

METEOROLOGICAL OFFICE

LONDON.

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DAILY WEATHER REPORTS.

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

1886.





July to December 1886.

July to December 1886.





# DAILY WEATHER REPORT.

for Wednesday 1<sup>st</sup> December 1886.

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

STATIONS.	+ YESTERDAY EVENING.						8 A.M. TO DAY.										PAST 24 HOURS.		
	Barometer at 32° F. and Sea Level.	Temp. in Shade.	WIND.		Weather.	Barometer. Reading at 32° F. and Sea Level.	Difference from 8 a.m. yesterday.	SHADE TEMP.		Difference from 8 a.m. yesterday.	WIND.		Weather.	Sea (0 to 9.)	SHADE TEMP.		Amount of Rainfall.		
			Direc.	Force. (0 to 12.)				Dry.	Wet.		Direc.	Force. (0 to 12.)			Max.	Min.			
SCANDINAVIA.	Inch.	°				Inch.	Inch.	°	°	°					°	°	Inch.		
Haparanda ..	28.90	27	N	2	b	29.14	+ .84	20	20	— 15	N	2	c	*	36	?	0.04		
Hernösand ...	29.02	35	Z	0	o	29.20	+ .29	29	28	— 6	Z	0	o	*	43	?	—		
Stockholm ...	29.17	41	S	4	o	29.26	+ .08	39	37	— 0	SSW	2	c	*	45	37	—		
Wisby ...	29.32	42	SW	4	b	29.32	— .03	41	39	— 1	W	4	o	*	45	41	—		
Bodö ...	28.95	32	WNW	6	o	29.09	+ .36	30	27	— 7	SSW	4	c	2	37	28	—		
Christiansund...	29.10	35	NNE	4	r	29.22	+ .31	32	32	— 9	WNW	4	c	5	45	?	0.47		
Skudesnaes ...	29.19	40	NNW	5	o	29.16	+ .10	37	33	— 6	NNW	6	o	4	45	39	—		
Christiania Fjord (Fjorder)	29.09	45	WSW	6	b	29.08	+ .04	35	35	— 12	NNW	4	o	2	?	34	—		
Skagen (The Scaw)	29.20	41	W	5	b	29.09	— .04	39	38	— 3	WNW	3	c	2	43	37	0.08		
Fanö ...	29.29	41	WSW	4	c	29.30	+ .02	38	38	— 6	W	2	chp	*	46	?	0.43		
Sumburgh Head	29.38	34	N	5	s	29.47	+ .31	30	28	— 11	N	3	b	3	42	29	0.17		
Stornoway ...	29.73	38	NW	5	cpa	29.69	+ .09	35	33	— 4	NW	4	b	3	40	32	0.15		
Wick ...	29.55	36	NW	7	o	29.60	+ .21	29	28	— 11	NW	1	sp	0	40	26	0.45		
Nairn ...	29.67	35	WNW	3	b	29.58	+ .12	32	32	— 6	WNW	3	sp	2	43	27	0.15		
Aberdeen...	29.58	35	W	6	b	29.59	+ .21	32	31	— 6	WNW	5	sp	3	41	31	0.13		
Leith ...	29.69	40	N	2	b	29.71	+ .25	34	31	— 4	WNW	1	b	*	45	32	—		
Shields ...	29.64	40	NNW	3	b	29.72	+ .28	34	32	— 3	W	1	b	0	44	32	—		
Spurn Head ...	29.63	42	NW	5	b	29.74	+ .25	39	38	— 1	W	5	b	6	43	35	—		
York ...	29.65	40	W	3	b	29.77	+ .29	35	34	— 2	W	2	b	*	45	31	—		
Loughborough	29.72	38	WNW	2	b	29.83	+ .25	35	35	— 2	WNW	2	ogrsp	*	44	33	0.02		
Ardrossan ...	29.77	40	NW	3	b	29.79	+ .28	38	37	— 4	NW	5	cg	4	49	35	0.03		
Malin Head ...	29.85	42	NNW	6	o	29.85	+ .21	39	37	— 3	NNW	4	ogrsp	4	45	38	0.04		
Mullaghmore ...	29.94	43	NNW	7	cp	29.97	+ .22	42	40	— 0	WNW	5	cp	5	45	38	0.22		
Belmullet ...	30.03	44	N	7	o	30.05	+ .17	44	40	— 1	NW	5	c	*	44	39	0.20		
Donaghadee ...	29.84	38	NNE	4	b	29.89	+ .30	39	37	— 6	NNW	6	b	4	45	35	0.12		
Barrow-in-Furness	29.75	41	NNW	5	b	29.82	+ .32	37	35	— 6	N	2	b	*	45	35	0.13		
Liverpool (Bidston)	29.77	43	NW	5	b	29.85	+ .33	41	37	— 1	NW	6	c	5	45	38	0.04		
Holyhead ...	29.83	45	NNW	8	b	29.91	+ .30	43	40	— 1	NW	6	cg	5	47	41	0.02		
Parsonstown ...	30.00	37	N	1	b	30.07	+ .21	37	36	— 2	SW	1	b	*	42	34	0.06		
Valencia ...	30.07	46	NNW	5	cp	30.16	+ .17	45	43	— 1	NNW	4	b	4	49	43	0.06		
Roche's Point...	29.98	44	NNW	5	c	30.10	+ .24	42	40	— 0	NW	4	c	4	48	37	0.01		
Pembroke ...	29.89	45	NW	5	b	30.01	+ .24	45	43	— 1	NW	5	b	5	46	42	0.01		
Seilly ...	29.94	48	NW	6	c	30.08	+ .22	47	43	— 0	N	5	c	5	49	43	0.03		
Prawle Point ...	29.87	43	NW	3	b	30.04	+ .25	36	35	— 5	NW	1	b	2	47	34	0.03		
Jersey ...	29.80	46	NW	5	chp	29.99	+ .19	42	41	— 3	NNW	3	c	3	48	41	0.11		
Hurst Castle ...	29.77	41	WNW	4	b	29.97	+ .26	33	32	— 8	WNW	2	b	2	49	31	—		
Dungeness ...	29.66	41	NW	4	c	29.89	+ .25	31	31	— 7	WNW	3	b	2	48	29	—		
London ...	29.70	41	NW	3	b	29.91	+ .25	31	31	— 5	W	1	b	*	45	30	—		
Oxford ...	29.80	37	WNW	3	b	29.92	+ .27	31	30	— 4	WSW	2	b	*	45	31	—		
Cambridge ...	29.69	40	W	1	c	29.80	+ .25	34	33	— 1	N	2	b	*	45	29	—		
Yarmouth ...	29.61	38	NW	4	o	29.78	+ .23	33	32	— 5	W	4	b	4	44	30	0.18		
Cuxhaven ...	29.47	40	WSW	4	b	29.46	— .02	40	39	— 1	W	5	r	*	43	39	0.24		
Berlin ...	29.65	37	SW	3	c	29.65	— .01	36	35	— 2	WSW	2	b	*	41	36	—		
Wiesbaden ...	*	*	*	*	*	29.80	+ .04	37	36	— 4	SW	1	o	*	46	32	0.08		
Munich ...	29.81	36	W	2	o	29.86	+ .01	33	32	— 7	SW	4	o	*	39	?	—		
FRANCE & NETHERLANDS.																			
The Helder ...	29.80	45	WNW	5	r	29.66	+ .17	42	39	— 3	NW	8	c	4	46	41	0.12		
Brussels ...	*	*	*	*	*	29.83	?	37	34	— 3	WSW	1	b	*	43	36	0.08		
Cape Gris Nez...	29.67	43	WNW	8	o	29.85	+ .20	41	37	— 2	NNW	8	b	6	45	39	—		
Paris ...	29.79	36	SSW	3	c	29.93	+ .13	32	32	— 6	SSW	1	b	*	47	32	0.08		
Brest ...	29.93	48	N	5	o	30.04	+ .12	41	39	— 7	NE	3	b	5	48	39	0.28		
Lorient ...	29.95	46	NNW	4	b	30.07	+ .12	43	?	— 5	NNE	4	b	2	48	39	—		
Rocheport ...	29.97	49	NNW	7	b	30.05	+ .02	42	40	— 6	NE	5	b	2	55	37	0.16		
Belfort ...	29.83	39	SW	1	o	29.90	+ .01	37	36	— 1	SW	1	o	*	40	34	—		
Lyons ...	29.92	37	S	1	c	29.93	— .02	35	34	— 0	W	1	b	*	41	33	0.04		
Nice ...	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*		
Perpignan ...	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*		
Biarritz ...	30.01	33	NW	7	r	30.02	— .04	45	42	— 6	SE	4	o	5	54	41	0.39		
PENINSULA.																			
Corunna ...	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*		
Lisbon ...	30.25	62	NNE	4	b	30.17	— .13	49	47	— 4	Z	0	o	2	?	46	—		

For Explanation of Columns, see p. 1.



# WEATHER CHARTS

for 8 a.m. on

Wednesday,

1<sup>st</sup> DECEMBER

1880.

## 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.

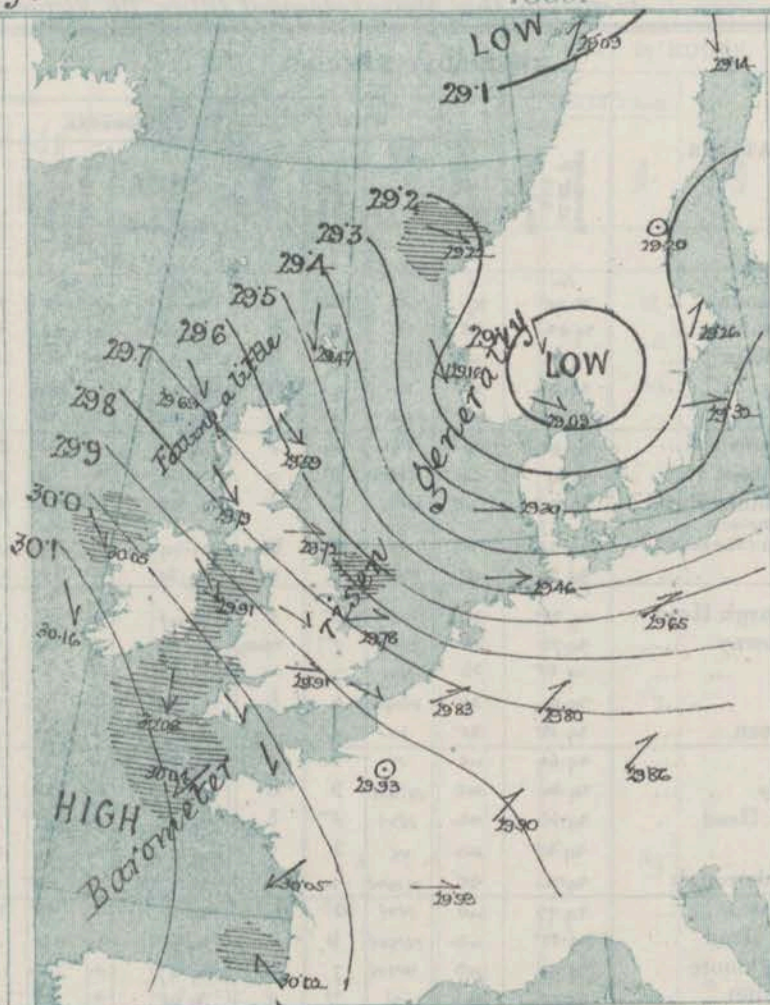
**Sea Disturbance** — where considerable is shown thus

■ = Rough. ■ = High.

## MEAN HEIGHT of the BAROMETER

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

STATIONS.	MEAN READINGS.
	in.
Sumburgh Head	29.680
Stornoway	29.701
Wick	29.711
Nairn	29.741
Aberdeen	29.750
Leith	29.800
Shields	29.830
York	29.877
Ardrossan	29.810
Donaghadee	29.832
Holyhead	29.858
Liverpool	29.882
Valencia	29.879
Roche's Point	29.889
Pembroke	29.897
Scilly	29.943
Hurst Castle	29.988
Dover	29.942
LONDON	29.934
Oxford	29.937
Cambridge	29.926
Yarmouth	29.902





# GENERAL SITUATION AT 8 A.M.

## PRESSURE

Highest, 30.1 ins and upwards in a large area lying to the south-west of our islands.  
Lowest, 29.1 ins and less in the neighbourhood of Bodø and also in a depression lying near the Skager Rack.

## TEMPERATURE

Highest, 49° at Lisbon and 45° at Valencia and Biarritz.  
Lowest, 29° at Hermosant and Wick 31° at Oxford, Bruges and in London and 32° at Naïm, Aberdeen and Paris.  
During last night the thermometer on the grass fell to 20° in London to 21° at Oxford and to 25° at Loughboro.

## WIND

Fresh NW<sup>ly</sup> on our western and northern coasts; moderate W<sup>at</sup> our eastern and the Danish stations.  
Light SW<sup>ly</sup> over Germany the east of France and the south of Sweden; moderate NE<sup>ly</sup> or E<sup>ly</sup> over the Bay of Biscay.

## WEATHER

Fine over the greater part of England Ireland and France.  
Snow or hail showers falling in Scotland and the north of Ireland; sleet at Loughborough and rain at Copenhagen.

## SEA

Rough at Spurn Head and rather rough on exposed parts of our western coasts.

## PROBABLE CHANGES IN SYSTEM NOW PREVALENT

In the course of the past twenty-four hours the barometer has risen generally; and, although a large area of low-pressure still lies over Scandinavia, with a well-defined depression in the neighbourhood of the Skager Rack, the system is inclined to fill up.

At Hornoway and Mullaghmore, however a slight fall of the barometer has taken place since 10 pm; and it is, therefore, not improbable that a depression is approaching our extreme north western coasts.

## FORECASTS

for the 24 hours ending at NOON on 2<sup>nd</sup> December 1886.

### DISTRICTS.

### FORECASTS.

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

W<sup>ly</sup> and NW<sup>ly</sup> winds, fresh, unsettled, some snow showers.  
D° ————— D°  
Same as N° 5.  
Same as N° 5.  
Same as N° 5.  
W<sup>ly</sup> winds, moderate or fresh, fine generally, but sleet showers locally.

### DISTRICTS.

### FORECASTS.

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

NW<sup>ly</sup> to W<sup>ly</sup> winds, fresh or strong, fair to unsettled and some cold showers.  
D° ————— D°  
NW<sup>ly</sup> winds, fresh; fair generally.  
NW<sup>ly</sup> to W<sup>ly</sup> winds, strong, unsettled, some hail or sleet.  
Same as N° 8.  
None issued.

### WARNINGS



# YESTERDAY'S 2 P.M. REPORTS.

	Bar.	Dry.	Wet.	Wind.	Wen.	Sea.		Bar.	Dry.	Wet.	Wind.	Wen.	Sea.		
Skudesnaes ...	29.13	44	42	WNW	2	0	5	Holyhead ...	29.74	45	41	NNW	8	bey	7
Sumburgh Head	29.35	36	35	N	3	0	3	Valencia ...	30.03	47	44	NNW	5	cq/p	5
Stornoway ...	29.71	38	35	NW	5	bey	4	Scilly ...	29.90	48	45	NW	7	cq	6
Aberdeen ...	29.50	40	39	NW	5	bey	2	Dungeness ...	29.65	46	44	WNW	4	b	3
Shields ...	29.56	42	38	NW	3	c	3	London ...	29.65	45	41	WNW	4	0	*
Ardrossan ...	29.69	43	39	NW	5	b	4	Yarmouth ...	29.55	41	38	W	4	b	3
Malin Head ...	29.79	42	39	NNW	5	0	5	Jersey ...	29.80	47	43	NW	5	b	4
Mullaghmore ...	29.88	42	40	NW	5	cq/p	5	Rocheport ...	29.99	51	46	NW	5	0	2
Belmullet ...	29.97	41	40	N	6	r	*								

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

The reports for yesterday morning showed that pressure was highest, 30.3 ins., to the westward of Portugal, but relatively high 30.1 ins. and upwards over the Black Sea and the neighbouring provinces. The lowest barometer reading 28.7 ins. and less were found in a large area lying over Lapland. Strong NW breezes prevailed in the extreme western parts of Europe, but elsewhere the wind was moderate from SW. or W. The weather was fair over the greater part of the British Isles, but showery on our extreme northwest coasts. Over the Continent, however, rain was falling in many localities. Temperature has risen a few degrees over eastern and southern Europe, but fallen elsewhere, and readings varied from 50° and above on the southern shores of the Mediterranean to 15° or less in the neighbourhood of the White Sea. The highest individual readings were 57° at Ouar, 56° at Algiers, and 55° at Palma and Brindisi; the lowest were 12° at Archangel, 20° at Hermanstadt, and 26° at Munich.

In the course of the day the barometer rose decidedly over the British Isles and the eastern shores of the North Sea, and the wind veered to the NW generally, with a fall of temperature; at night sharp frost was experienced over Great-Britain. Snow fell heavily in the north of Scotland during the evening and night.

## ATLANTIC TELEGRAM.

The Chief Signal Officer U.S. reports that on the 26<sup>th</sup> Feb. in Lat. 43° N. Long. 60° W. the barometer at Noon fell to 29.8 ins. during a strong gale in which the wind veered from SW. to W.

## EXPLANATION OF COLUMNS GIVEN ON PAGE 1.

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

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

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

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



# DAILY WEATHER REPORT.

for Thursday 2<sup>d</sup> December 1886.

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

Issued by the Meteorological Office, No. 1, Abchurch Lane, London, E.C. 4, on the 1st day of the month.																		
+ YESTERDAY EVENING.																		
8 A.M. TO DAY.																		
PAST 24 HOURS.																		
STATIONS.	Barometer at 32° F. and Sea Level.	Temp. in Shade.	WIND.			Weather.	BAROMETER.		SHADE TEMP.			WIND.			Sea (0 to 9.)	SHADE TEMP.		Amount of Rainfall.
			Dirce.	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.	Dirce.	Force (0 to 12.)			Max.	Min.	
SCANDINAVIA.																		
Haparanda ...	29.23	17	Z	0	bc	29.24	+10	16	16	-4	N	4	bc	*	28	16	-	
Hernösand ...	29.09	31	gale	4	s	29.15	-05	28	27	-1	NNE	4	s	*	36	25	0.24	
Stockholm ...	29.13	39	SW	2	n	29.28	+02	34	32	-3	N	4	s	*	43	35	0.04	
Wisby ...	29.28	39	SW	6	c	29.43	+13	39	35	-2	N	6	bc	*	43	37	0.12	
Bodö ...	29.18	27	SW	2	o	29.35	+26	28	23	-6	ENE	2	bc	1	39	23	-	
Christiansund...	29.21	30	SSW	3	b	29.27	+05	33	32	+1	S	2	c	3	34	27	-	
Skudesnaes ...	29.28	34	NW	7	o	29.45	+29	26	26	-11	NW	2	bc	3	37	?	-	
Christiania Fjord (Fjærd)	29.10	35	NW	4	b	29.39	+31	36	32	+1	NW	2	bc	3	36	34	-	
Skagen (The Scaw)	29.15	38	NW	7	o	29.40	+31	37	33	-2	SW	4	o	3	41	32	0.32	
Fanö ...	29.47	38	N	6	b	29.33	+03	33	33	-5	WSW	4	oprh	*	41	32	0.35	
BRITISH ISLANDS.																		
Sumburgh Head	29.43	31	N	4	s	29.56	-04	31	31	+1	N	4	s	4	34	26	0.05	
Stornoway ...	29.73	29	N	6	s	29.90	+21	31	30	-4	N	4	cp	3	37	26	0.32	
Wick ...	29.57	30	NW	4	o	29.78	+18	31	30	+2	NW	3	bc	3	33	26	0.28	
Nairn ...	29.55	30	NNE	9	s	29.85	+27	30	30	-2	N	0	o	2	34	24	0.18	
Aberdeen...	29.49	30	N	6	sq	29.77	+18	29	28	-3	NW	6	sq	3	34	27	0.44	
Leith ...	29.45	35	NW	2	b	29.86	+15	27	27	-7	NW	1	bm	*	39	26	0.16	
Shields ...	29.54	39	WSW	4	n	29.84	+12	27	26	-7	NW	3	bc	4	39	26	0.07	
Spurn Head ...	29.67	37	WSW	6	b	29.73	-01	33	31	-6	NW	7	bcsp	6	41	29	0.03	
York ...	29.65	37	WSW	3	b	29.86	+09	31	29	-4	N	4	b	*	41	28	0.04	
Loughborough	29.80	37	NW	3	c	29.87	+04	27	25	-8	NW	3	b	*	39	27	0.03	
Ardrossan ...	29.59	37	NW	8	oprh	29.91	+12	33	32	-5	N	1	b	0	49	31	0.04	
Malin Head ...	29.65	40	NW	7	bc	29.95	+10	35	33	-4	NW	3	cp	3	42	31	0.03	
Mullaghmore ...	29.88	43	NW	8	cp	30.05	+08	34	30	-8	NW	5	sp	4	45	32	0.21	
Belmullet ...	29.97	44	NW	8	c	30.16	+08	38	35	-6	NW	3	cp	*	44	34	0.21	
Donaghadee ...	29.74	38	NW	7	o	29.95	+06	33	32	-6	NW	6	c	4	40	30	0.05	
Barrow-in-Farress	29.64	42	N	7	o	29.89	+07	32	29	-5	N	2	b	*	44	31	0.09	
Liverpool (Bidston)	29.72	41	WSW	7	n	29.91	+06	35	32	-6	NW	3	b	5	42	34	0.27	
Holyhead ...	29.81	44	WSW	7	cp	29.96	+05	37	34	-6	NW	5	cp	6	44	33	0.02	
Parsonstown ...	29.98	39	N	1	o	30.10	+03	30	30	-7	N	0	b	*	43	29	-	
Valencia ...	30.11	44	NW	4	o	30.13	-03	41	39	-4	N	4	c	4	49	37	0.07	
Roche's Point...	30.04	43	NW	4	bc	30.10	00	35	33	-7	NW	3	b	3	47	34	0.01	
Pembroke ...	29.94	46	NW	4	bc	30.01	00	37	35	-8	NW	3	bcsp	3	46	32	0.05	
Scilly ...	30.06	48	NW	6	cp	30.01	-07	45	42	-2	N	7	c	6	49	43	0.06	
Prawle Point ...	30.00	39	NW	2	c	29.99	-05	32	30	-4	NW	2	bc	2	47	31	0.05	
Jersey ...	30.02	40	N	2	cp	29.90	-09	41	39	-1	N	5	cp	4	47	38	0.35	
Hurst Castle ...	29.93	41	NW	4	bc	29.93	-04	30	29	-3	NW	3	b	2	46	29	0.07	
Dungeness ...	29.85	35	NW	1	b	29.82	-07	32	31	+1	NW	4	c	3	45	30	-	
London ...	29.87	35	N	3	bc	29.87	-04	30	26	-1	NW	2	bm	*	43	30	0.03	
Oxford ...	29.84	36	WSW	3	b	29.92	00	29	27	-2	NW	3	b	*	44	29	-	
Cambridge ...	29.80	34	N	2	b	29.86	00	27	26	-7	NW	1	b	*	43	26	-	
Yarmouth ...	29.76	34	N	3	bc	29.76	-02	30	29	-3	NW	4	c	5	39	29	0.06	
Cuxhaven ...	29.56	37	WSW	7	n	29.51	+05	35	35	-5	SW	5	o	*	40	33	0.14	
Berlin ...	29.75	34	SW	2	b	29.78	+13	30	29	-6	S	1	c	*	41	28	*	
Wiesbaden ...	*	*	*	*	*	29.81	+01	30	29	-7	N	1	o	*	43	28	-	
Munich ...	29.91	33	N	2	s	29.79	-07	31	31	-2	NW	1	s	*	39	30	0.20	
GERMANY.																		
The Helder ...	29.69	41	NW	5	c	29.57	-09	42	37	0	NW	8	c	4	43	36	0.16	
Brussels ...	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	
Cape Gris Nez...	29.84	41	NW	7	bc	29.73	-07	26	35	-5	N	8	c	6	46	34	-	
Paris ...	29.99	34	SW	1	b	29.82	-11	33	33	+1	S	1	n	*	44	31	-	
Brest ...	30.10	47	N	5	o	29.97	-07	44	40	+3	N	7	o	4	48	?	0.12	
Lorient ...	?	47	N	3	b	29.98	-09	43	41	0	NW	5	c	4	48	41	-	
Rocheport ...	30.13	46	N	5	o	30.00	-05	45	43	+3	N	8	n	4	50	37	0.12	
Belfort ...	29.93	35	SW	1	bc	29.89	-01	26	26	-11	SW	1	bc	*	39	24	-	
Lyons ...	29.96	36	N	4	c	29.93	00	30	28	-5	N	1	b	*	41	30	-	
Nice ...	29.64	45	2	0	c	29.53	*	40	38	*	ENE	3	c	2	54	37	-	
Perpignan ...	29.93	43	NW	7	b	29.89	*	41	36	*	NW	7	b	*	49	37	-	
Biarritz ...	30.06	46	NE	4	bc	30.01	-01	41	37	-4	S	3	c	3	52	37	0.08	
FRANCE & NETHERLANDS.																		
Corunna ...	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	
Lisbon ...	30.11	50	N	7	b	30.13	-04	42	39	-7	NNE	1	b	2	55	41	-	
PENINSULA.																		



# WEATHER CHARTS

for 8 a.m. on

Thursday, 2<sup>nd</sup> December.

1886.

## 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. The 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.

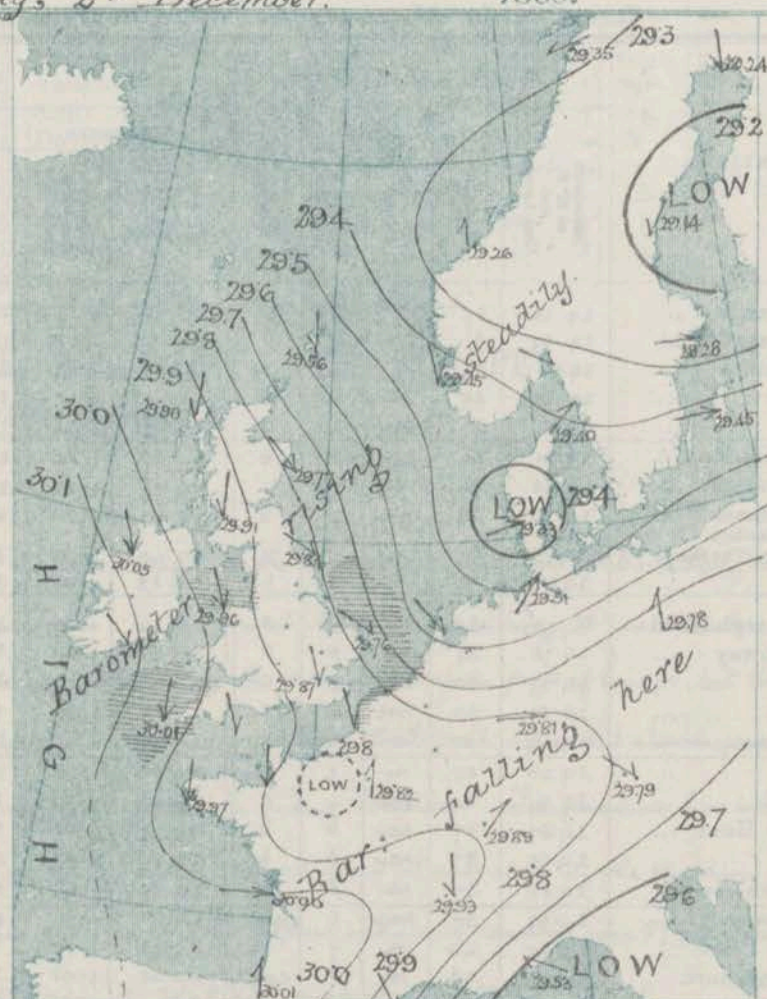
**Sea Disturbance** — where considerable is shown thus

■ = Rough. ■ = High.

## MEAN HEIGHT of the BAROMETER

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

STATIONS.	MEAN READINGS.
Sumburgh Head	29.680
Stornoway	29.701
Wick	29.713
Nairn	29.741
Aberdeen	29.750
Leith	29.800
Shields	29.836
York	29.877
Ardrossan	29.810
Donaghadee	29.892
Holyhead	29.858
Liverpool	29.882
Valencia	29.879
Roche's Point	29.889
Pembroke	29.897
Scilly	29.943
Hurst Castle	29.938
Dover	29.912
LONDON	29.934
Oxford	29.937
Cambridge	29.926
Yarmouth	29.902



## 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.

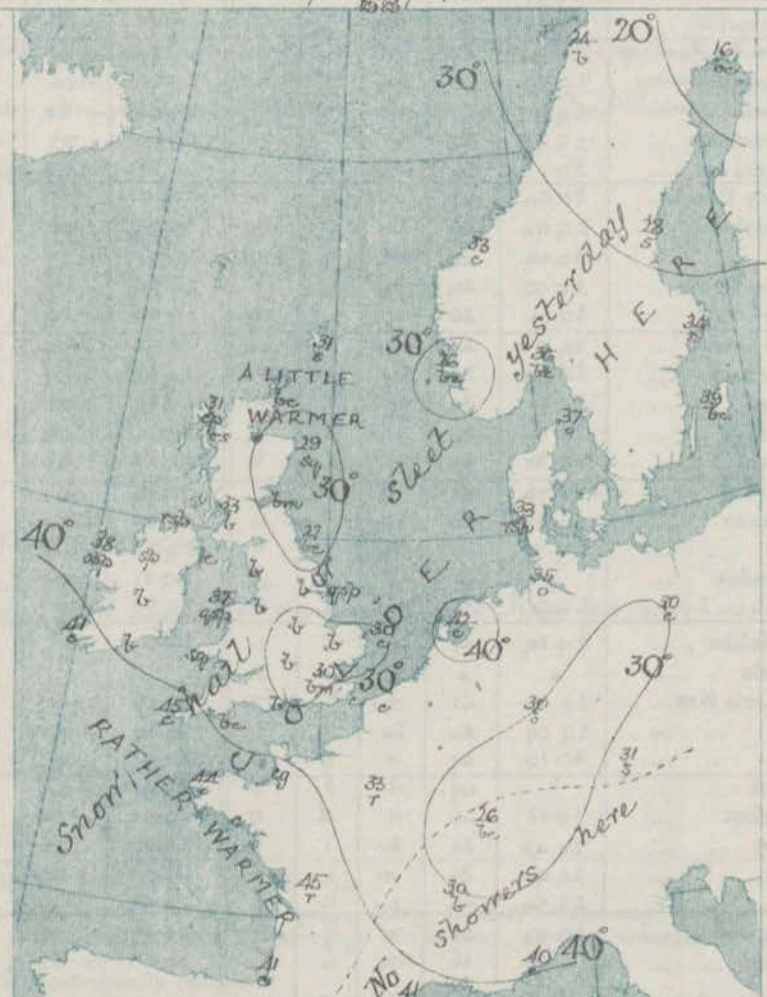
**Rainfall** — A dotted line separates the districts in which rain has fallen from those where there has been none. Falls of 0.5 in. or more, are quoted in figures.

## MEANS OF TEMPERATURE IN SHADE. AND RAINFALL.

for the month of December.

STATIONS	TEMPERATURE.				RAINFALL. (Inches)
	Daily Max.	Daily Min.	At 8 a.m.		
			Dry.	Wet.	
Sumburgh Head	42.0	34.5	39.0	37.6	4.33
Stornoway	44.8	33.5	38.9	37.8	5.69
Wick	42.0	32.1	37.8	36.4	3.18
Nairn	41.5	32.8	36.9	35.4	2.08
Aberdeen	41.8	32.9	36.9	35.3	3.34
Leith	44.3	33.6	38.4	37.0	2.01
Shields	42.8	34.3	39.2	36.9	2.74
York	42.5	31.9	36.2	35.4	2.45
Ardrossan	47.0	36.1	40.1	38.3	4.04
Donaghadee	46.7	36.1	40.1	39.1	2.94
Holyhead	46.8	39.6	42.9	41.3	3.84
Liverpool	43.6	35.7	39.1	37.4	2.70
Valencia	50.0	40.0	44.7	41.8	5.82
Roche's Point	47.7	39.3	42.9	41.4	4.74
Pembroke	47.1	40.4	43.7	42.6	4.08
Scilly	49.8	43.9	47.2	45.3	4.10
Hurst Castle	45.5	36.5	40.6	39.9	2.81
Dover	44.2	36.5	40.0	38.8	3.20
LONDON	44.5	33.9	38.1	37.1	2.14
Oxford	43.3	33.6	37.3	36.6	2.13
Cambridge	43.3	31.8	36.3	35.6	1.62
Yarmouth	42.2	33.8	37.9	37.2	2.98

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 large area lying to the W <sup>nd</sup> and S.W <sup>nd</sup> of our Islands Lowest, 29.2 " and less, over the Gulf of Bothnia, but relatively less 29.4 ins: and less in a depression lying over Denmark, 29.6 ins: and less in another lying over the Gulf of Genoa, and 29.8 ins: in a third having its centre near Rome.
TEMPERATURE	Highest 45° at Scilly, and Rochefort and 44° at Brest. Lowest, 16° at Kaparanda, 24° at Rode, 26° at Belfort, 27° at Leith, Shields, Loughborough and Cambridge. Sharp frost occurred last night in many parts of the Kingdom.
WIND	Light or moderate from S.W. over Germany, Denmark, and the south of Sweden. N.W. or N. in most other localities, and strong in force on exposed parts of our coasts. A whole gale from N.W. was experienced yesterday at Stornoway, and a fresh to strong gale from N.W. on our N.W. coast generally.
WEATHER	Fine over the southern parts of our Islands and France. Cloudy elsewhere, with snow showers in many places. During yesterday showers of snow hail or sleet fell in all parts of the United Kingdom.
SEA	Rough at Spun Head, Holyhead, and Scilly, and rather rough at Liverpool and Yarmouth, but moderate to smooth elsewhere.

## PROBABLE CHANGES IN SYSTEM NOW PREVALENT

During yesterday a well defined and rather deep depression appeared over the north of Scotland, but in the course of the night the disturbance has grown much shallower, and has apparently moved in a S.S.E. direction to the north of France. In the meantime a new disturbance has been formed over Denmark.

No important change in the weather is likely at present. The high pressure area to the westward of our Islands seems to be fairly well established, and N. winds with occasional snow showers are likely to continue for a time.

## FORECASTS

For the 24 hours ending at NOON on 3<sup>rd</sup> December 1886.

### DISTRICTS.

### FORECASTS.

0	SCOTLAND NORTH	N <sup>th</sup> winds, moderate or fresh; changeable, some snow showers
* 1	SCOTLAND EAST	N.W. and N. winds, strong; changeable, some snow showers
* 2	ENGLAND N.E.	-----D°-----D°-----D°-----
3	ENGLAND EAST	Same as No 5
4	MIDLAND COUNTIES	Same as No 5
5	ENGLAND SOUTH	N.W. to N. winds, moderate or fresh, fair generally but probably some snow showers.

### DISTRICTS.

### FORECASTS.

6	SCOTLAND WEST	N <sup>th</sup> winds, moderate or fresh; fair generally.
7	ENGLAND N.W.	-----D°-----D°-----D°-----
* 8	ENGLAND S.W.	N <sup>th</sup> winds, fresh or strong; changeable, some snow showers.
9	IRELAND NORTH	-----D°-----D°-----D°-----
10	IRELAND SOUTH	Same as No 6.

### WARNINGS

The north cone was hoisted yesterday in districts 0 to 2, 6 to 9 and part of 10, but the signals have been lowered this morning in districts 0, 6, 7, 9, and parts of 8 and 10. An asterisk is inserted against those districts in which the signals are now flying.



# YESTERDAY'S 2 P.M. REPORTS.

	Bar.	Dry.	Wet.	Wind.	Wes.	Sea.		Bar.	Dry.	Wet.	Wind.	Wes.	Sea.
Skudesnaes ...	29.20	34	33	W 4	okg	5	Holyhead ...	29.91	44	40	W 5	cq p	5
Sumburgh Head ...	29.43	30	29	W 4	c	3	Valencia ...	30.14	47	44	W 4	c q	4
Stornoway ...	29.37	31	30	W 10	sq	6	Scilly ...	30.09	48	45	W 5	c q	5
Aberdeen ...	29.49	34	32	W 3	om	2	Dungeness ...	29.88	44	41	W 4	b	2
Shields ...	29.71	39	35	SW 3	b	3	London ...	29.91	43	39	W 3	bc	*
Ardrossan ...	29.63	43	41	W 6	h	5	Yarmouth ...	29.78	39	37	W 4	bc	4
Malin Head ...	29.67	40	39	W 5	b	5	Jersey ...	30.03	46	43	W 3	b	3
Mullaghmore ...	29.90	45	42	W 7	op	6	Rochefort ...	30.13	47	44	W 4	b	2
Belmullet ...	29.98	44	41	W 6	bc	*							

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

The reports for yesterday morning showed that pressure was as high as 30.1 in. and upwards over the Black Sea, and also over Spain and the south-west of Ireland, while it was as low as 29.1 in. over Northern Europe. In the hollow which separated these two high pressure areas lay two small depressions, one over the south of Norway and the other over the Gulf of Genoa. Thus, while rather strong NW winds prevailed over the British Isles, North Sea and Western Europe generally, accompanied by cold weather, and in Scotland by much snow, the winds in Central and Eastern Europe were S. and SW., and the weather comparatively fair. Temperature was low generally; it ranged from a little above 50° over the Adriatic and southern parts of the Mediterranean, and from about 45° over the western parts of our Islands and some parts of the Baltic, to rather below the freezing point over the Central parts of Spain, Austria and South Germany, as well as over Finland and Lapland. The highest readings recorded were 56° at Malta, 54° at Cagliari, Tunis and Sanguinaria and 50° at Trieste; the lowest at Uleaborg, 20° at Hermanstad, 30° at Madrid, and 31° in London.

During the day a new and deep, but small subsidiary disturbance appeared over Scotland, causing a severe N. gale at Stornoway, with very cold weather and snow; cold showers fell in most parts of the British Isles, with occasional strong squalls of wind at night.

### EXPLANATION OF COLUMNS GIVEN ON PAGE 1.

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

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

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

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



# DAILY WEATHER REPORT.

for Friday 3<sup>rd</sup> December 1886.  
Issued by the Meteorological Office, 116, Victoria Street, London, R. H. SCOTT, Secretary.

PUBLISHED BY THE METEOROLOGICAL OFFICE, 10, RAILWAY STREET, LONDON, E.C. 4. 1891.																		
+ YESTERDAY EVENING.																		
8 A.M. TO DAY.																		
PAST 24 HOURS.																		
STATIONS.																		
Barometer at 32° F. and Sea Level.																		
Temp. in Shade.																		
WIND.																		
Barometer.																		
Shade Temp.																		
WIND.																		
Shade Temp.																		
Amount of Rainfall.																		
SCANDINAVIA.																		
Haparanda ...																		
Hernösand ...																		
Stockholm ...																		
Wisby ...																		
Bodö ...																		
Christiansund ...																		
Skudesnaes ...																		
Christiania Fjord ...																		
Skagen (The Scaw) ...																		
Fanö ...																		
Sumburgh Head ...																		
Stornoway ...																		
Wick ...																		
Nairn ...																		
Aberdeen ...																		
Leith ...																		
Shields ...																		
Spurn Head ...																		
York ...																		
Loughborough ...																		
Ardrossan ...																		
Malin Head ...																		
Mullaghmore ...																		
Belmullet ...																		
Donaghadee ...																		
Barrow-in-Furness ...																		
Liverpool (Bidston) ...																		
Holyhead ...																		
Parsonstown ...																		
Valencia ...																		
Roche's Point ...																		
Pembroke ...																		
Soilly ...																		
Prawle Point ...																		
Jersey ...																		
Huraz Castle ...																		
Dungeness ...																		
London ...																		
Oxford ...																		
Cambridge ...																		
Yarmouth ...																		
Cuxhaven ...																		
Berlin ...																		
Wiesbaden ...																		
Munich ...																		
The Helder ...																		
Brussels ...																		
Cape Gris Nez ...																		
Paris ...																		
Brest ...																		
Lorient ...																		
Rochefort ...																		
Belfort ...																		
Lyons ...																		
Nice ...																		
Perpignan ...																		
Biarritz ...																		
Corunna ...																		
Lisbon ...																		



# WEATHER CHARTS

for 8 a.m. on Friday, 3<sup>rd</sup> December.

## 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. The Fly with the wind and their barbs and feathers refer to force, thus —

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

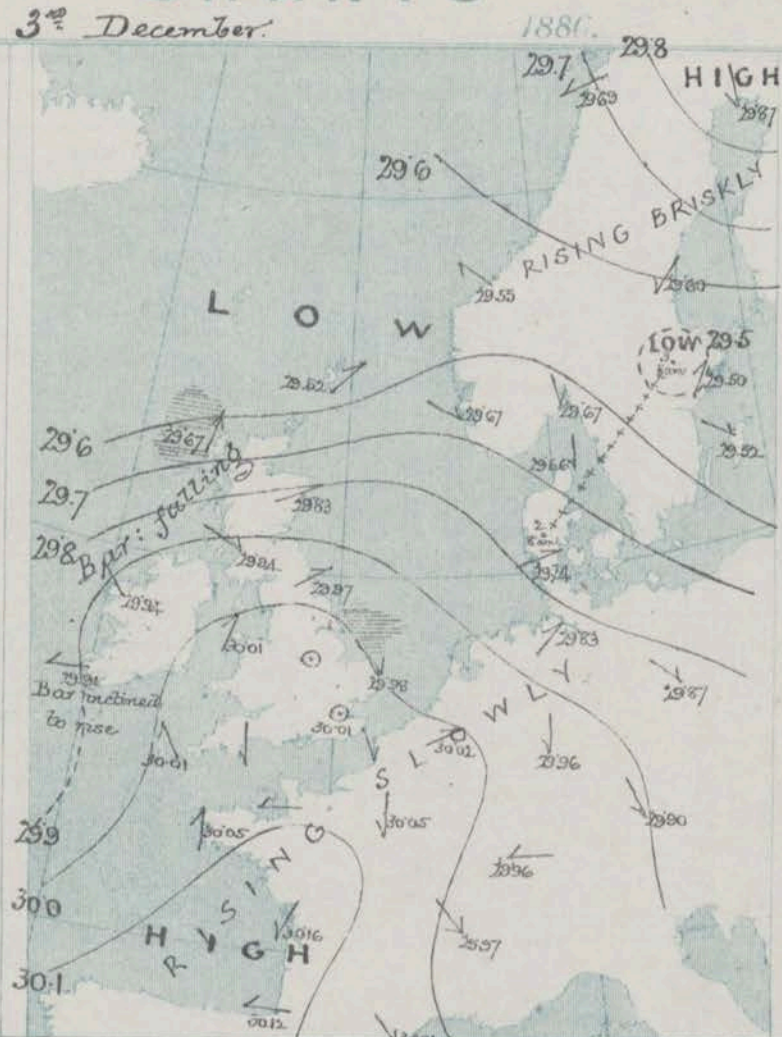
**Sea Disturbance** — where considerable is shown thus

■ = Rough. ■ = High

## MEAN HEIGHT of the BAROMETER

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

STATIONS.	MEAN READINGS.
	in.
Sumburgh Head.	29.680
Stornoway	29.701
Wick	29.713
Nairn	29.711
Aberdeen	29.750
Leith	29.800
Shields	29.836
York	29.877
Ardrossan	29.810
Donaghadee	29.832
Holyhead	29.858
Liverpool	29.882
Valencia	29.879
Roche's Point	29.889
Pembroke	29.897
Scilly	29.943
Hurst Castle	29.938
Dover	29.912
LONDON	29.934
Oxford	29.937
Cambridge	29.926
Yarmouth	29.902



## 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

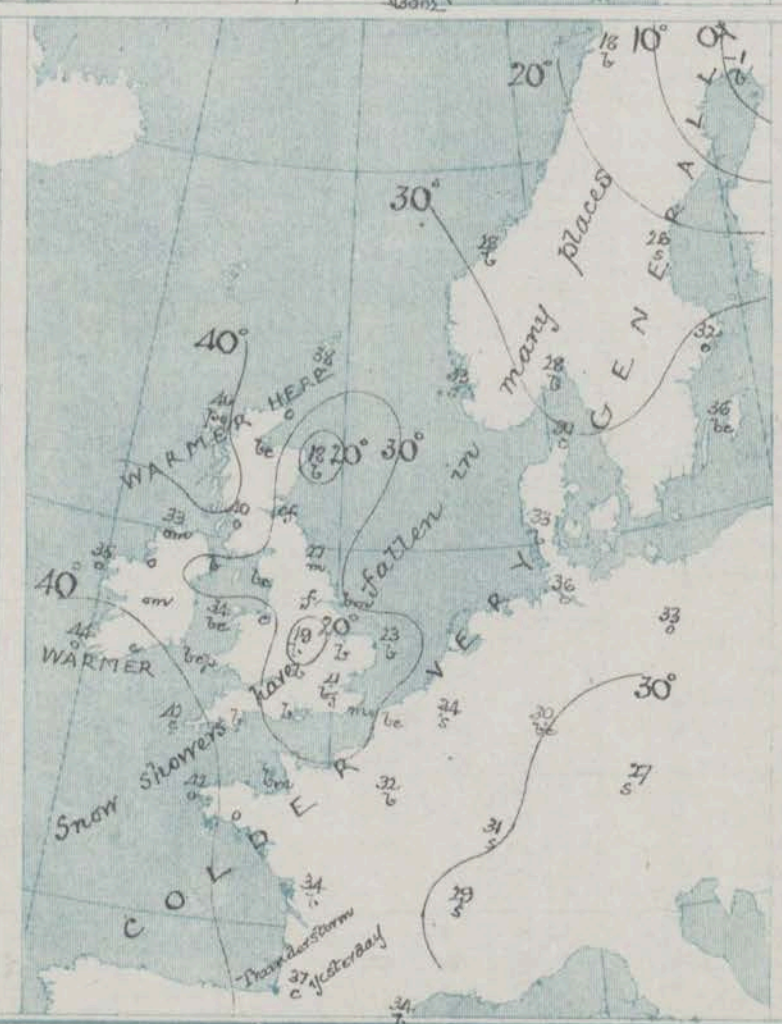
**Rainfall** A dotted line separates the districts in which rain has fallen from those where there has been none. Falls of 0.5 in. or more, are quoted in figures.

## MEANS OF TEMPERATURE IN SHADE. AND RAINFALL.

for the month of December.

STATIONS	TEMPERATURE.				RAINFALL (Inches)
	Daily Max.	Daily Min.	AT 8 A.M.	Wet	
Sumburgh Head	42.0	34.5	39.0	37.6	4.23
Stornoway	44.8	33.5	38.0	37.8	5.66
Wick	42.0	32.1	37.8	36.4	3.18
Nairn	41.5	32.8	36.0	35.4	2.08
Aberdeen	41.8	32.9	36.0	35.3	3.34
Leith	44.3	33.6	38.4	37.0	2.01
Shields	42.8	34.3	39.2	36.9	2.74
York	42.5	31.9	36.2	35.4	2.45
Ardrossan	47.0	36.1	40.1	38.3	1.04
Donaghadee	46.7	36.1	40.1	39.1	2.84
Holyhead	46.8	39.6	42.9	41.3	3.84
Liverpool	43.6	35.7	39.1	37.4	2.70
Valencia	50.0	40.0	44.7	41.8	5.82
Roche's Point	47.7	39.3	42.9	41.4	1.74
Pembroke	47.1	40.4	43.7	42.6	1.06
Scilly	49.8	43.9	47.2	45.3	4.10
Hurst Castle	45.5	36.5	40.6	39.9	2.84
Dover	44.2	36.5	40.0	38.8	3.20
LONDON	44.5	33.9	38.1	37.1	2.14
Oxford	43.3	33.6	37.3	36.6	2.13
Cambridge	43.3	31.8	36.3	35.6	1.30
Yarmouth	42.2	33.8	37.0	37.2	2.95

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 an anticyclone lying over Spain, <del>and</del> the southern part of the Bay of Biscay, and W. of France. Lowest, 29.5 -- and less in a small depression lying near Stockholm, but relatively low 29.6 ins. and less, in a long band extending from the Baltic to the northward of our Islands.
TEMPERATURE	Highest, 47° at Lisbon, 46° at Rochefort and 44° at Valencia. Lowest, -1 at Haparanda, 18° at Bodø and Aberdeen and 19° at Loughborough. (During last night the sheltered thermometer fell to 17° at Aberdeen, to 19° at Loughborough, and to 20° at Dungeness and Foulridge, while in London an instrument exposed on the grass fell to 12°.)
WIND	E <sup>ly</sup> in the west of France, and also over the northern part of Scandinavia. SE <sup>ly</sup> or S <sup>ly</sup> in Ireland, and SW <sup>ly</sup> in the north of Scotland. W <sup>ly</sup> or NW <sup>ly</sup> elsewhere; light or moderate in force generally.
WEATHER	Dull on our western and extreme northern coasts, with rain at Lumbagh Head and Stromsøy. Snow falling at Haparanda and Uddesmark as well as in S. Germany and the SE. of France. Fine elsewhere, but foggy at some of the English stations.
SEA	Rather rough at Stromsøy and Lumbagh Head, but moderate to smooth elsewhere.

## PROBABLE CHANGES IN SYSTEM NOW PREVALENT

The area of high pressure which lay to the SW<sup>ly</sup> of our Islands yesterday has advanced eastward over England and France, and the barometer has risen at all but our extreme western and northern stations, where a somewhat decided fall has taken place.

A depression is exerting the extreme NW. of Scotland, while another disturbance is apparently approaching the south of Ireland, but it is at present doubtful whether these will materially affect the weather over England. In Ireland and Scotland, however, rain and sleet are probable.

## FORECASTS

for the 24 hours ending at NOON on 4<sup>th</sup> December 1886.

DISTRICTS.	FORECASTS.	DISTRICTS.	FORECASTS.
0 { SCOTLAND NORTH	SW <sup>ly</sup> and S <sup>ly</sup> winds, fresh; dull, some rain or sleet.	6 { SCOTLAND WEST	SW <sup>ly</sup> winds, moderate; fair at first; perhaps unsettled later.
1 { SCOTLAND EAST	W <sup>ly</sup> to S <sup>ly</sup> winds, moderate; fair generally, but some mist or fog.	7 { ENGLAND N. W.	----- D <sup>o</sup> ----- D <sup>o</sup> ----- D <sup>o</sup> -----
2 { ENGLAND N. E.	----- D <sup>o</sup> ----- D <sup>o</sup> ----- D <sup>o</sup> -----	8 { ENGLAND S. W.	Light breezes, chiefly S <sup>ly</sup> ; fair generally.
3 { ENGLAND EAST	Same as No 5.	9 { IRELAND NORTH	SE <sup>ly</sup> and S <sup>ly</sup> winds, moderate or fresh; cloudy; some cold rain or sleet.
4 { MIDLAND COUNTIES	Same as No 5.	10 { IRELAND SOUTH	----- D <sup>o</sup> ----- D <sup>o</sup> ----- D <sup>o</sup> -----
5 { ENGLAND SOUTH	Light variable breezes; cold and foggy at first; doubtful later.	WARNINGS	NONE ISSUED.



# YESTERDAY'S 2 P.M. REPORTS.

	Bar.	Dry.	Wet.	Wind.	Wea.	Sea.		Bar.	Dry.	Wet.	Wind.	Wea.	Sea.
Skudesnaes ...	29.51	30	29	2 0	0	3	Holyhead ...	29.97	39	35	W 5	b c s p q	5
Sumburgh Head ...	29.68	30	30	N 5	S	4	Valencia ...	30.09	44	41	SW 2	ov	3
Stornoway ...	29.92	31	31	W 3	b c p	2	Scilly ...	30.04	44	39	N 5	c	4
Aberdeen ...	29.82	30	29	W 3	b c p	2	Dungeness ...	29.86	36	36	N 5	b c p	3
Shields ...	29.86	32	31	W 3	b c	4	London ...	29.90	36	32	W 4	c	*
Ardrossan ...	29.93	36	36	W 2	b	2	Yarmouth ...	29.77	35	33	W 5	c q p	6
Malin Head ...	29.96	38	33	W 3	0	3	Jersey ...	29.96	41	37	N 4	b c	4
Mullaghmore ...	30.04	36	34	SW 1	o s p	2	Rocheport ...	29.98	47	43	SW 7	b	3
Belmullet ...	30.06	40	37	N 3	0	*							

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

The reports for yesterday morning showed that the distribution of pressure over Europe was remarkably similar to that noticed on the 1<sup>st</sup> - viz - high (30.1 in. and upwards) over the Black Sea and southern Russia, as well as over Portugal and the extreme south-west of Ireland, and low (29.3 in.) over the north of Norway, and rather low (29.5 in.) over the Gulf of Genoa. The winds, however, had become rather more N<sup>ly</sup> over the British Isles than they were on the 1<sup>st</sup>, and blew strongly in places, with local showers of snow and sleet, while the SW wind over the Baltic had increased to a gale. Over Central and Eastern Europe the wind was light and the weather generally fair. Temperatures had fallen over Western Europe, and was below the freezing point in most inland regions. On our southwest coasts it was about 45°, while over the more southern Mediterranean coasts it was still above 50°. The highest individual readings were 57° at Malta, 55° at Brindisi, 52° at Cagliari, and 51° at Rome; the lowest 15° at Haparanda, 24° at Bodo, 25° at Hesanger, 26° at Rebert, 27° at Hermannstadt, 28° at Hueso and N. Shields and 30° in London.

During the day there was little change to be noted, but as night came on temperature began to fall fast again over England, accompanied by a rising barometer and a lulling and backing 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).

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# DAILY WEATHER REPORT.

for Saturday 4<sup>th</sup> December 1886.

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.		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 ...	29.69	8	N	6	0	29.59	- .28	16	16	+ .17	N	4	0	*	?	?	-2	0.08
	Hernösand ...	29.57	22	NNE	6	0	29.54	- .06	19	18	- .7	2	0	0	*	27	?	?	-
	Stockholm ...	29.65	24	N	4	6c	29.70	+ .20	33	31	+ .1	NSW	4	0	*	37	?	?	-
	Wisby ...	29.75	34	N	6	6	29.82	+ .30	38	35	+ .2	SW	4	6	*	?	32	?	-
	Bodö ...	29.57	21	NNE	4	6	29.32	- .37	23	19	+ .5	NNE	6	0	3	?	?	?	-
	Christiansund...	29.28	33	SSE	3	0	29.15	- .40	34	33	+ .6	NSW	3	0	3	34	?	?	0.04
	Skudesnaes ...	29.52	44	NSW	9	0	29.25	- .42	41	40	+ .8	NSW	7	0	6	45	?	?	0.71
	Christiania Fjord (Fjorder)	29.67	38	SW	6	6	29.49	- .18	44	44	+ .16	SSW	9	0	6	?	?	?	-
	Skagen (The Scaw)	29.75	35	NW	3	0	29.64	- .02	38	36	+ .8	SW	7	0	4	?	30	?	0.08
	Fanö ...	29.88	38	NSW	4	0	29.78	+ .04	41	37	+ .8	SW	6	0	*	41	32	?	0.12
BRITISH ISLANDS.	Sumburgh Head	29.34	42	NW	4	0	29.14	- .38	32	32	- .6	N	6	5	5	42	31	?	0.38
	Stornoway ...	29.52	39	NSW	4	2	29.60	- .07	39	35	- .1	NW	5	6cpr	4	41	35	?	0.89
	Wick ...	29.50	36	SW	4	0	29.46	- .19	35	33	0	N	6	cu	1	37	30	?	0.35
	Nairn ...	29.54	40	SW	3	0	29.48	- .27	36	34	+ .3	NSW	3	0	2	39	30	?	0.18
	Aberdeen...	29.64	36	S	2	0	29.49	- .34	37	34	+ .19	NW	5	6	1	39	18	?	-
	Leith ...	29.75	37	N	3	0	29.55	- .37	39	38	+ .9	N	2	6	*	40	29	?	0.02
	Shields ...	29.90	35	SW	2	m	29.88	- .39	38	36	+ .11	?	1	m	2	38	25	?	0.07
	Spurn Head ...	30.00	33	SW	3	m	29.68	- .33	35	35	+ .5	SSW	4	0	3	36	29	?	0.03
	York ...	29.98	33	SW	1	6c	29.64	- .38	34	33	+ .12	S	1	5	*	34	21	?	0.01
	Loughborough	30.04	33	SSE	2	0	29.72	- .33	36	36	+ .17	SSE	3	0	*	36	19	?	0.06
GERMANY.	Ardrossan ...	29.79	42	SW	7	0	29.62	- .32	43	43	+ .3	NW	4	6	3	45	39	?	0.08
	Malin Head ...	29.72	37	S	4	0	29.71	- .20	43	40	+ .10	NW	4	0	4	45	33	?	0.53
	Mullaghmore ...	29.50	40	SSW	5	0	29.77	- .19	46	43	+ .11	NW	5	6c	4	47	31	?	0.54
	Belmullet ...	29.79	44	SSW	3	0	29.85	- .09	46	44	+ .11	N	4	0	*	47	34	?	0.19
	Donaghadee ...	29.87	36	NSW	2	6c	29.69	- .30	40	40	+ .12	NW	3	6	1	40	28	?	0.29
	Barrow-in-Furness	29.91	41	SW	6	0	29.61	- .38	42	41	+ .14	N	3	6c	*	44	28	?	0.54
	Liverpool (Bidston)	29.98	37	SSW	3	0	29.64	- .38	43	42	+ .10	NW	3	0	3	44	32	?	0.44
	Holyhead ...	29.95	42	SSW	4	0	29.68	- .33	47	44	+ .13	NW	5	6c	4	47	34	?	0.54
	Parsonstown ...	29.92	39	2	0	0	29.79	- .21	41	40	+ .9	2	0	6	*	45	30	?	0.02
	Valencia ...	29.90	46	SE	5	0	29.84	- .07	50	49	+ .6	NW	5	0	4	51	44	?	0.36
FRANCE & NETHERLANDS.	Roches Point...	29.93	48	SSW	5	0	29.78	- .18	47	44	+ .1	N	2	0	4	49	44	?	0.18
	Pembroke ...	30.01	44	S	4	6c	29.73	- .30	48	46	+ .10	NW	4	0	4	49	37	?	0.40
	Seilly ...	29.99	46	SSE	2	0	29.75	- .26	51	50	+ .9	NW	6	0	5	51	41	?	0.11
	Prawle Point ...	30.06	41	SE	2	0	29.76	- .32	47	47	+ .15	SSW	4	0	4	47	31	?	0.28
	Jersey ...	30.09	41	S	2	0	29.90	- .17	41	41	+ .6	SSW	4	0	3	43	35	?	0.13
	Hurst Castle ...	30.10	36	SE	2	6cm	29.81	- .27	45	45	+ .21	SW	7	0	4	45	24	?	0.09
	Dungeness ...	30.10	30	NW	1	6	29.87	- .16	43	43	+ .21	SW	5	0	4	43	19	?	-
	London ...	30.10	27	2	0	f	29.83	- .25	39	37	+ .18	S	1	0	*	40	21	?	0.01
	Oxford ...	30.08	30	SW	1	6	29.77	- .32	38	36	+ .14	SSW	2	0	*	40	22	?	0.04
	Cambridge ...	30.08	28	SW	1	6	29.76	- .32	36	36	+ .15	SSW	1	0	*	38	20	?	0.05
PENIN-SULA.	Yarmouth ...	30.05	29	N	2	6	29.84	- .15	35	34	+ .12	SSW	4	0	4	35	21	?	0.02
	Cuxhaven ...	29.97	30	SW	2	0	29.96	+ .13	32	31	- .4	SW	4	0	*	37	30	?	0.10
	Berlin ...	30.06	36	N	1	0	30.11	+ .24	34	32	+ .1	SW	1	0	*	36	32	?	-
	Wiesbaden ...	*	*	*	*	*	30.11	+ .15	26	25	- .4	2	0	0	*	36	23	?	-
	Munich ...	30.04	27	E	2	0	29.96	+ .06	25	25	- .2	NNE	3	0	*	32	25	?	0.08
	The Helder ...	30.07	37	S	1	0	29.91	- .01	33	32	- .1	S	5	0	3	41	?	?	0.04
	Brussels ...	*	*	*	*	*	30.03	+ .01	30	?	- .4	S	4	0	*	40	29	?	-
	Cape Gris Nez...	30.06	35	2	0	6	29.89	- .13	31	?	- .5	SSW	7	0	4	37	30	?	-
	Paris ...	30.15	34	E	3	0	30.09	+ .04	25	24	- .7	SSE	3	0	*	37	24	?	-
	Brest ...	30.04	46	SSE	5	0	29.85	- .20	49	48	+ .7	SSW	8	0	5	?	37	?	0.16
PENIN-SULA.	Lorient ...	30.17	44	S	4	0	29.95	- .15	47	46	+ .7	SW	5	0	4	?	?	?	0.12
	Roche fort ...	30.20	37	E	3	6	30.14	- .02	35	34	+ .1	SSE	5	0	2	45	30	?	-
	Belfort ...	30.03	32	E	1	0	30.01	+ .05	28	27	- .3	NNE	1	0	*	34	25	?	-
	Lyons ...	30.10	30	NW	5	0	30.08	+ .11	27	26	- .2	N	3	6c	*	30	27	?	-
	Nice ...	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Perpignan ...	30.06	37	NW	3	6	30.01	- .01	34	27	0	NW	3	6	*	45	31	?	-
	Biarritz ...	30.13	37	NNE	4	6	30.04	- .08	28	23	- .9	SSE	5	0	2	46	27	?	-
	Corunna ...	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Lisbon ...	30.09	52	SW	4	0	30.09	- .08	48	48	+ .1	NNE	4	0	?	55	?	?	0.20

For Explanation of Columns, see p. 4.



for 8 a.m. on *Saturday, 4<sup>th</sup> December* 1886.

(Explanation of Map)

$\rightarrow$  = forces above  $W$ ,  $\rightarrow$  = forces 8 to 10.  
 $\rightarrow$  = forces 5 to 7,  $\rightarrow$  = forces 1 to 4.  
 $\odot$  = dead culm.

MEAN HEIGHT *of the* BAROMETER

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

A hand-drawn weather map of the North Atlantic region, showing pressure systems and fronts. The map includes the following features:

- Pressure Systems:**
  - A **LOW** system is located in the upper center, with a central pressure of 29.15 and a minimum contour of 29.2.
  - A **HIGH** system is located in the lower right, with a central pressure of 30.11 and a maximum contour of 30.1.
  - A **HIGH** system is located in the lower left, with a central pressure of 30.14 and a maximum contour of 30.1.
- Fronts:**
  - A **Bar. rising** front is indicated by a line with arrows pointing towards the low, located in the lower left.
  - A **Bar. falling** front is indicated by a line with arrows pointing away from the low, located in the center.
  - A **Bar. rising** front is indicated by a line with arrows pointing towards the high, located in the upper right.
- Isobars:** Numerous isobars are drawn, with values ranging from 29.2 to 30.1. Some values are written in the margins, such as 29.3, 29.4, 29.5, 29.6, 29.7, 29.8, 29.9, 30.0, 30.1, 30.2, 30.3, 30.4, 30.5, 30.6, 30.7, 30.8, 30.9, 31.0, 31.1, 31.2, 31.3, 31.4, 31.5, 31.6, 31.7, 31.8, 31.9, 32.0, 32.1, 32.2, 32.3, 32.4, 32.5, 32.6, 32.7, 32.8, 32.9, 33.0, 33.1, 33.2, 33.3, 33.4, 33.5, 33.6, 33.7, 33.8, 33.9, 34.0, 34.1, 34.2, 34.3, 34.4, 34.5, 34.6, 34.7, 34.8, 34.9, 35.0, 35.1, 35.2, 35.3, 35.4, 35.5, 35.6, 35.7, 35.8, 35.9, 36.0, 36.1, 36.2, 36.3, 36.4, 36.5, 36.6, 36.7, 36.8, 36.9, 37.0, 37.1, 37.2, 37.3, 37.4, 37.5, 37.6, 37.7, 37.8, 37.9, 38.0, 38.1, 38.2, 38.3, 38.4, 38.5, 38.6, 38.7, 38.8, 38.9, 39.0, 39.1, 39.2, 39.3, 39.4, 39.5, 39.6, 39.7, 39.8, 39.9, 40.0, 40.1, 40.2, 40.3, 40.4, 40.5, 40.6, 40.7, 40.8, 40.9, 41.0, 41.1, 41.2, 41.3, 41.4, 41.5, 41.6, 41.7, 41.8, 41.9, 42.0, 42.1, 42.2, 42.3, 42.4, 42.5, 42.6, 42.7, 42.8, 42.9, 43.0, 43.1, 43.2, 43.3, 43.4, 43.5, 43.6, 43.7, 43.8, 43.9, 44.0, 44.1, 44.2, 44.3, 44.4, 44.5, 44.6, 44.7, 44.8, 44.9, 45.0, 45.1, 45.2, 45.3, 45.4, 45.5, 45.6, 45.7, 45.8, 45.9, 46.0, 46.1, 46.2, 46.3, 46.4, 46.5, 46.6, 46.7, 46.8, 46.9, 47.0, 47.1, 47.2, 47.3, 47.4, 47.5, 47.6, 47.7, 47.8, 47.9, 48.0, 48.1, 48.2, 48.3, 48.4, 48.5, 48.6, 48.7, 48.8, 48.9, 49.0, 49.1, 49.2, 49.3, 49.4, 49.5, 49.6, 49.7, 49.8, 49.9, 50.0, 50.1, 50.2, 50.3, 50.4, 50.5, 50.6, 50.7, 50.8, 50.9, 51.0, 51.1, 51.2, 51.3, 51.4, 51.5, 51.6, 51.7, 51.8, 51.9, 52.0, 52.1, 52.2, 52.3, 52.4, 52.5, 52.6, 52.7, 52.8, 52.9, 53.0, 53.1, 53.2, 53.3, 53.4, 53.5, 53.6, 53.7, 53.8, 53.9, 54.0, 54.1, 54.2, 54.3, 54.4, 54.5, 54.6, 54.7, 54.8, 54.9, 55.0, 55.1, 55.2, 55.3, 55.4, 55.5, 55.6, 55.7, 55.8, 55.9, 56.0, 56.1, 56.2, 56.3, 56.4, 56.5, 56.6, 56.7, 56.8, 56.9, 57.0, 57.1, 57.2, 57.3, 57.4, 57.5, 57.6, 57.7, 57.8, 57.9, 58.0, 58.1, 58.2, 58.3, 58.4, 58.5, 58.6, 58.7, 58.8, 58.9, 59.0, 59.1, 59.2, 59.3, 59.4, 59.5, 59.6, 59.7, 59.8, 59.9, 60.0, 60.1, 60.2, 60.3, 60.4, 60.5, 60.6, 60.7, 60.8, 60.9, 61.0, 61.1, 61.2, 61.3, 61.4, 61.5, 61.6, 61.7, 61.8, 61.9, 62.0, 62.1, 62.2, 62.3, 62.4, 62.5, 62.6, 62.7, 62.8, 62.9, 63.0, 63.1, 63.2, 63.3, 63.4, 63.5, 63.6, 63.7, 63.8, 63.9, 64.0, 64.1, 64.2, 64.3, 64.4, 64.5, 64.6, 64.7, 64.8, 64.9, 65.0, 65.1, 65.2, 65.3, 65.4, 65.5, 65.6, 65.7, 65.8, 65.9, 66.0, 66.1, 66.2, 66.3, 66.4, 66.5, 66.6, 66.7, 66.8, 66.9, 67.0, 67.1, 67.2, 67.3, 67.4, 67.5, 67.6, 67.7, 67.8, 67.9, 68.0, 68.1, 68.2, 68.3, 68.4, 68.5, 68.6, 68.7, 68.8, 68.9, 69.0, 69.1, 69.2, 69.3, 69.4, 69.5, 69.6, 69.7, 69.8, 69.9, 70.0, 70.1, 70.2, 70.3, 70.4, 70.5, 70.6, 70.7, 70.8, 70.9, 71.0, 71.1, 71.2, 71.3, 71.4, 71.5, 71.6, 71.7, 71.8, 71.9, 72.0, 72.1, 72.2, 72.3, 72.4, 72.5, 72.6, 72.7, 72.8, 72.9, 73.0, 73.1, 73.2, 73.3, 73.4, 73.5, 73.6, 73.7, 73.8, 73.9, 74.0, 74.1, 74.2, 74.3, 74.4, 74.5, 74.6, 74.7, 74.8, 74.9, 75.0, 75.1, 75.2, 75.3, 75.4, 75.5, 75.6, 75.7, 75.8, 75.9, 76.0, 76.1, 76.2, 76.3, 76.4, 76.5, 76.6, 76.7, 76.8, 76.9, 77.0, 77.1, 77.2, 77.3, 77.4, 77.5, 77.6, 77.7, 77.8, 77.9, 78.0, 78.1, 78.2, 78.3, 78.4, 78.5, 78.6, 78.7, 78.8, 78.9, 79.0, 79.1, 79.2, 79.3, 79.4, 79.5, 79.6, 79.7, 79.8, 79.9, 80.0, 80.1, 80.2, 80.3, 80.4, 80.5, 80.6, 80.7, 80.8, 80.9, 81.0, 81.1, 81.2, 81.3, 81.4, 81.5, 81.6, 81.7, 81.8, 81.9, 82.0, 82.1, 82.2, 82.3, 82.4, 82.5, 82.6, 82.7, 82.8, 82.9, 83.0, 83.1, 83.2, 83.3, 83.4, 83.5, 83.6, 83.7, 83.8, 83.9, 84.0, 84.1, 84.2, 84.3, 84.4, 84.5, 84.6, 84.7, 84.8, 84.9, 85.0, 85.1, 85.2, 85.3, 85.4, 85.5, 85.6, 85.7, 85.8, 85.9, 86.0, 86.1, 86.2, 86.3, 86.4, 86.5, 86.6, 86.7, 86.8, 86.9, 87.0, 87.1, 87.2, 87.3, 87.4, 87.5, 87.6, 87.7, 87.8, 87.9, 88.0, 88.1, 88.2, 88.3, 88.4, 88.5, 88.6, 88.7, 88.8, 88.9, 89.0, 89.1, 89.2, 89.3, 89.4, 89.5, 89.6, 89.7, 89.8, 89.9, 90.0, 90.1, 90.2, 90.3, 90.4, 90.5, 90.6, 90.7, 90.8, 90.9, 91.0, 91.1, 91.2, 91.3, 91.4, 9

Temperature—Isotherms are drawn for each 10° change 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.

## for the month of December

10.01

20° 30° 40°

W A R M faster

H W has

COLDER

M U Rain

Snow has

20° 30° 40°

28° 27° 26° 25° 24° 23° 22° 21° 20° 19° 18° 17° 16° 15° 14° 13° 12° 11° 10° 9° 8° 7° 6° 5° 4° 3° 2° 1° 0° -1° -2° -3° -4° -5° -6° -7° -8° -9° -10° -11° -12° -13° -14° -15° -16° -17° -18° -19° -20° -21° -22° -23° -24° -25° -26° -27° -28° -29° -30°

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 two areas lying respectively over North Germany and Central France. Lowest, 29.2 ins. and less in a large depression lying off the west of Norway. A series of "V shaped" subsidiary disturbances is apparently moving over our Islands.
TEMPERATURE	Highest, 51° at Killy, 50° at Talenex and 49° at Kiest. Lowest, 16° at Haparanda, 19° at Hamsand, 25° at Munich and Paris, 28° at Biarritz and 32° at Lumburgh Head. Since yesterday a considerable rise of temperature has taken place over our Islands, the change in the south east of England amounting to between 18° and 21°.
WIND	Moderate or strong from NW. on our western and northern coasts, light from NE. or N. over S. Germany and the E. of France. SW. elsewhere, strong in force over the Channel and also on the eastern shores of the North Sea.
WEATHER	Rainy over the southern parts of England and Ireland as well as in the north of France. Fini at some of our northwestern and northern stations, but snow falling at Lumburgh, St. Helens and York. In the course of the past twenty-four hours rain or sleet has fallen over the greater part of the Kingdom.
SEA	Wrough off the south of Norway, and rather rough at Lumburgh Head, Killy and Kiest, but moderate or slight elsewhere.

### PROBABLE CHANGES IN SYSTEM NOW PREVALENT

The high pressure system noticed yesterday over England and France has continued to move eastwards, and a large depression is now lying off the west coast of Norway, while some subsidiary disturbances are found over various parts of our Islands.

In the rear of these systems the barometer is now rising again on our western and northern coasts, while the wind there has veered to the NW<sup>W</sup>. These disturbances will probably continue to move eastwards, and the wind over our Eastern districts may therefore be expected to veer to W. or NW. with a temporary improvement in the weather. On our western coasts temperature will probably fall somewhat.

## FORECASTS

For the 24 hours ending at NOON on 5<sup>th</sup> December 1886.

DISTRICTS.	FORECASTS.	DISTRICTS	FORECASTS.
* 1 SCOTLAND NORTH	N <sup>W</sup> and NW <sup>W</sup> winds, strong, a gale in places; squally, some snow showers.	* 6 SCOTLAND WEST	NW <sup>W</sup> winds, increasing in force; squally, some showers.
* 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>W</sup> to W <sup>W</sup> or NW <sup>W</sup> winds, fresh or strong; squally and rainy at first, some improvement later.	WARNINGS	The S. cone was hoisted last evening in districts 0.1.6.7.8.10. and parts of 2 and 3. An asterisk is inserted against those districts in which it is now flying.



# YESTERDAY'S 2 P.M. REPORTS.

	Bar.	Dry.	Wet.	Wind.	Wes.	Sea.		Bar.	Dry.	Wet.	Wind.	Wes.	Sea.
Skudeanaes ...	29.67	36	36	WSW 6	h	h	Holyhead ...	29.99	42	38	SSW 2	c	2
Sumburgh Head ...	29.43	41	40	WSW 3	o	h	Valencia ...	29.90	47	46	SSW 5	oym	5
Stornoway ...	29.60	39	39	WSW 4	h	h	Scilly ...	29.99	46	43	SSW 4	o	3
Aberdeen ...	29.72	34	32	SSW 1	og	1	Dungeneas ...	30.06	34	34	WSW 2	b	2
Shields ...	29.75	35	34	SW 1	m	3	London ...	30.09	37	34	W 1	bf	*
Ardrossan ...	29.46	41	41	W 5	o	h	Yarmouth ...	30.03	30	29	WSW 3	bm	4
Malin Head ...	29.81	35	33	SSW 3	o	2	Jersey ...	30.07	41	39	S 3	c	3
Mullaghmore ...	29.90	38	36	SE 2	am	2	Rocheport ...	30.18	42	37	SE 4	b	2
Belmullet ...	29.88	40	38	S 2	b	*							

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

Yesterday morning's observations showed that pressure was highest (30.1 in. and upwards) over the Iberian Peninsula and over the Black Sea and Southern Russia, but that it was also becoming high over Finland and Lapland. The systems were, however, very irregular in form, while to the westward and northward of our Islands, as well as over the North Sea and Baltic pressure was very irregularly distributed. The small system recently noticed over the Gulf of Genoa still held. Cold, frosty weather prevailed over the inland parts of Western Europe and still colder weather over Finland and Lapland, but in most places the air was dry, (notwithstanding occasional sleet showers in several places) and the winds light. In the south of France, however, the snow was more general, the winds were stronger and lightning occurred in some parts. Temperature ranged from a little above 50° over the south of Italy and the Balkan Peninsula, and from a little above 40° at some stations in the extreme west of our Islands and to rather below zero (F) in Finland to between 18° and 20° over several parts of Great Britain, and to little above 20° over Central France. The highest individual readings were 57° at Malta, 55° at Brindisi, 53° at Palma, as well as at Oran (Algeria), and 46° at Rocher Point, the lowest -1° at Haparanda, 18° at Aberdeen, 19° at Loughborough, 21° in London, and 23° at Limoges. Over Russia and Austria values were higher.

During the day the barometer began to fall in the west, and milder wet weather began to spread over the British Isles and France from the W<sup>nd</sup> with freshening S<sup>se</sup> winds.

### 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 5<sup>th</sup> December 1886.

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.	BAROMETR.		SHADE TEMP.			WIND.		Weather.	Sea. (0 to 9.)	SHADE TEMP.		Amount of Rainfall.	
				Dir.	Force. (0 to 12.)		Reading at 52° 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 ..	29.41	15	E	4	S	29.43	- .16	33	33	+ 17	S	6	r	*	?	7	0.32	
	Hernösand ...	29.54	36	SSW	8	0	29.58	+ .04	33	32	+ 14	S	8	s	*	?	12	-	
	Stockholm ...	29.86	33	SW	2	0	29.84	+ .14	28	27	- 5	S	2	bc	*	37	21	-	
	Wisby ...	29.88	37	SW	4	0	29.84	+ .02	33	31	- 5	S	4	b	*	39	32	-	
	Bodö ...	29.33	23	ENE	6	0	29.22	- .10	26	24	+ 3	ENE	6	0	2	?	23	-	
	Christiansund...	29.39	35	SW	4	0	29.30	+ .35	32	31	- 2	WSW	6	s	4	36	30	-	
	Skudesnaes ...	29.47	35	NNW	4	r	29.64	+ .39	39	35	- 2	ESE	2	0	4	41	?	-	
	Christiania Fjord (Færder)	29.30	41	S	9	0	29.61	+ .12	40	38	- 4	WSW	4	b	4	44	39	0.08	
	Skagen (The Scaw)	29.62	35	SW	7	0	29.66	+ .02	34	34	- 4	SW	4	c	3	39	34	-	
	Fanö ...	29.65	37	SW	7	a	29.76	- .02	37	36	- 4	NNW	1	b	*	41	36	0.12	
BRITISH ISLANDS.	Sumburgh Head	29.58	38	N	4	b	29.38	+ .24	41	40	+ 9	SSW	4	r	4	42	32	0.04	
	Stornoway ...	29.84	37	NN	3	b	29.55	- .05	46	46	+ 7	W	4	om	4	48	33	0.04	
	Wick ...	29.75	36	NN	1	bc	29.48	+ .02	43	41	+ 8	W	3	0	1	43	31	0.06	
	Nairn ...	29.81	36	W	1	c	29.57	+ .09	42	40	+ 6	SSW	2	c	1	42	32	0.03	
	Aberdeen...	29.76	38	NW	4	bc	29.50	- .14	37	35	0	SW	4	c	1	37	32	0.02	
	Leith ...	29.86	36	W	1	b	29.74	+ .19	43	41	+ 4	NNW	3	0	*	44	35	-	
	Shields ...	29.79	38	NW	2	b	29.85	+ .27	37	34	- 1	S	2	0	2	43	28	-	
	Spurn Head ...	29.80	38	NNW	4	b	29.96	+ .28	34	32	- 1	WSW	4	bc	3	40	32	0.14	
	York ...	29.85	33	NW	1	b	29.96	+ .32	32	31	- 2	SW	1	0	*	43	29	-	
	Loughborough	29.87	36	NNW	3	b	30.03	+ .31	29	28	- 7	ENE	1	om	*	43	27	0.09	
GERMANY.	Ardrossan ...	29.90	43	NNW	2	b	29.77	+ .15	46	46	+ 3	SW	5	0	4	47	38	0.04	
	Malin Head ...	29.95	43	WNW	3	bc	29.82	+ .11	49	49	+ 6	WNW	3	od	3	50	37	0.13	
	Mullaghmore ...	30.01	37	WNW	1	bc	29.89	+ .12	51	50	+ 5	W	5	or	4	51	36	0.43	
	Belmullet ...	30.03	44	W	3	0	29.94	+ .09	51	51	+ 5	W	1	om	*	51	43	0.09	
	Donaghadee ...	29.97	38	N	2	b	29.85	+ .16	42	42	+ 2	W	2	m	0	45	35	0.15	
	Barrow-in-Furness	29.87	40	NNW	5	bc	29.91	+ .30	43	43	+ 1	SW	4	rm	*	44	36	0.05	
	Liverpool (Bidston)	29.93	41	NNW	3	b	29.96	+ .32	38	38	- 5	SSW	1	r	2	45	38	0.02	
	Holyhead ...	29.95	46	N	5	cp	29.94	+ .26	46	46	- 1	SSW	4	rmg	4	48	40	0.14	
	Parsonstown ...	30.04	38	L	0	b	29.97	+ .18	51	50	+ 10	SW	1	og	*	51	34	0.03	
	Valencia ...	30.10	42	N	2	0	30.09	+ .25	52	52	+ 2	W	3	of	4	52	46	0.11	
FRANCE & NETHERLANDS.	Roche's Point...	30.05	42	N	1	b	30.04	+ .26	51	50	+ 4	NW	3	0	3	51	39	0.01	
	Pembroke ...	29.97	45	N	2	b	30.04	+ .31	46	46	- 2	SW	4	rmg	4	49	41	0.05	
	Seilly ...	29.92	51	N	6	cp	30.11	+ .36	49	48	- 2	SW	4	0	4	52	47	-	
	Prawle Point ...	29.88	53	N	2	bc	30.14	+ .38	40	40	- 7	W	1	rm	2	53	35	0.08	
	Jersey ...	29.80	47	N	5	cp	30.13	+ .23	42	42	+ 1	N	1	cm	1	49	40	0.55	
	Hurst Castle ...	29.84	41	N	4	b	30.11	+ .30	36	34	- 9	WNW	2	bc	2	47	32	0.64	
	Dungeness ...	29.71	44	W	5	r	30.03	+ .16	31	31	- 12	NW	3	b	3	44	30	0.25	
	London ...	29.87	40	NNW	4	bc	30.07	+ .24	30	28	- 9	WSW	2	b	*	44	28	0.35	
	Oxford ...	29.94	35	NNW	3	b	30.08	+ .31	31	30	- 7	W	1	b	*	43	31	0.15	
	Cambridge ...	29.80	35	NW	2	b	30.05	+ .29	30	30	- 6	SW	1	b	*	40	28	0.20	
PENIN- SULA.	Yarmouth ...	29.73	35	NNW	3	or	29.99	+ .13	31	30	- 4	NW	2	b	4	36	30	0.25	
	Cuxhaven ...	29.84	32	SSW	3	0	29.81	- .15	32	32	0	SW	3	f	*	32	30	-	
	Berlin ...	29.94	31	E	1	bc	29.89	- .22	27	26	- 7	NW	1	bc	*	36	27	*	
	Wiesbaden ...	*	*	*	*	*	29.99	- .12	22	21	- 4	NW	3	c	*	30	?	-	
	Munich ...	29.79	26	W	2	s	29.88	- .08	24	23	- 1	NW	5	s	*	28	23	0.24	
	The Helder ...	*	*	*	*	*	29.99	- .04	25	?	- 5	SW	3	f	*	32	24	0.20	
	Brussels ...	*	*	*	*	*	29.99	+ .10	40	38	+ 9	NNE	7	b	5	?	30	0.24	
	Cape Gris Nez...	29.75	36	SSW	9	r	29.99	+ .10	40	38	+ 9	NNE	7	b	5	?	30	0.24	
	Paris ...	29.89	29	S	4	s	30.04	- .05	22	22	- 3	N	1	b	*	35	22	0.12	
	Brest ...	29.88	50	N	7	b	30.21	+ .36	44	42	- 5	NE	1	0	3	52	41	0.04	

For Explanation of Columns, see p. 1.



# WEATHER CHARTS

for 8 a.m. on Sunday 5<sup>th</sup> December 1880.

## 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.

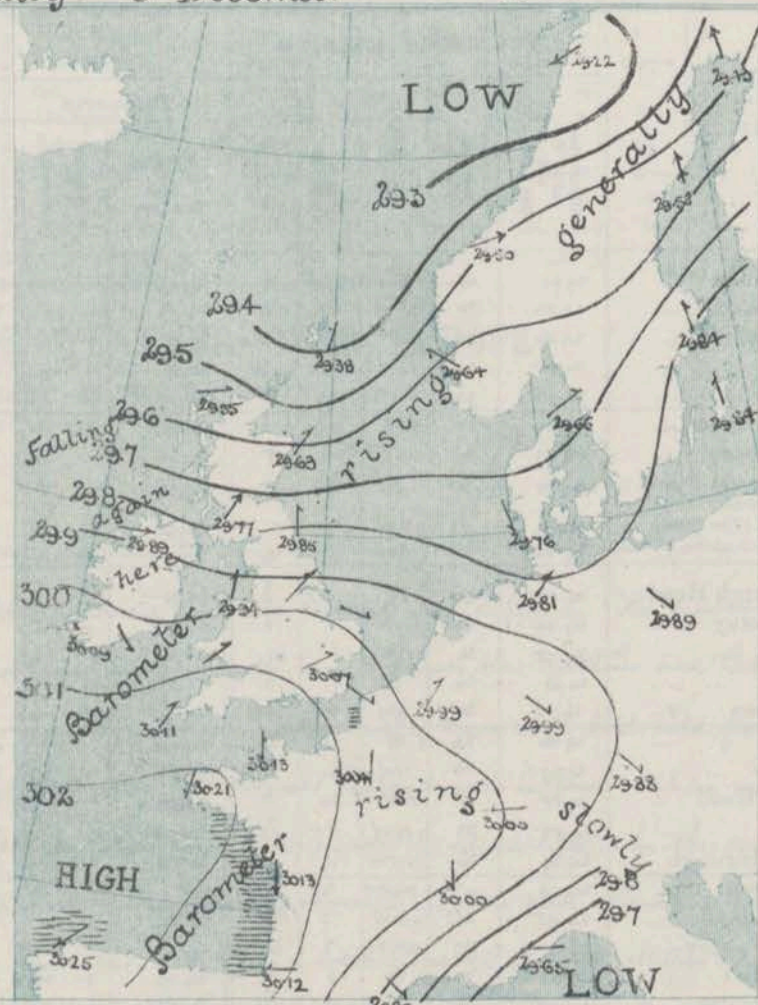
**Sea Disturbance** — where considerable is shown thus

■ = Rough. ■ = High

## MEAN HEIGHT of the BAROMETER

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

STATIONS.	MEAN READINGS. in.
Sumburgh Head	29.680
Stornoway	29.701
Wick	29.713
Nairn	29.741
Aberdeen	29.750
Leith	29.800
Shields	29.836
York	29.877
Ardrossan	29.810
Donaghadee	29.832
Holyhead	29.858
Liverpool	29.882
Valencia	29.879
Roche's Point	29.889
Pembroke	29.897
Scilly	29.943
Burst Castle	29.938
Dover	29.912
LONDON	29.934
Oxford	29.937
Cambridge	29.926
Yarmouth	29.902



## 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.

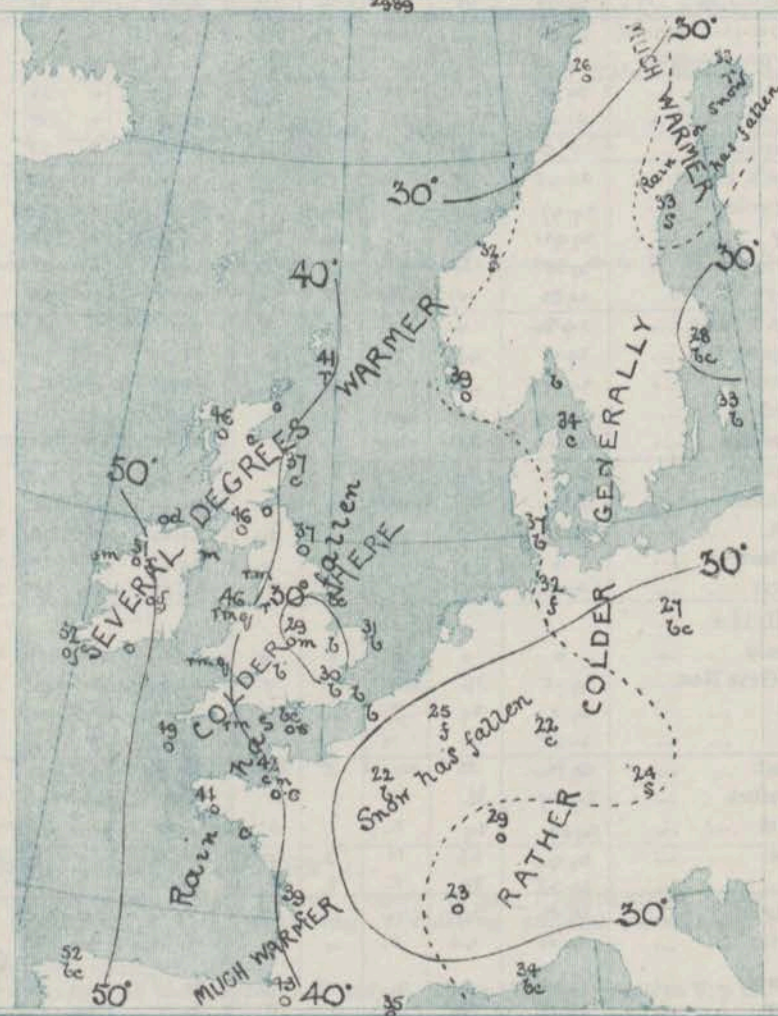
**Rainfall** — A dotted line separates the districts in which rain has fallen from those where there has been none. Falls of 0.5 in. or more, are quoted in figures.

## MEANS OF TEMPERATURE IN SHADE. AND RAINFALL.

for the month of December.

STATIONS	TEMPERATURE.				RAINFALL (Inches)
	Daily Max.	Daily Min.	Avg. & M. Dry.	Wet.	
Sumburgh Head	42.0	34.5	39.0	37.6	4.31
Stornoway	44.8	33.5	38.9	37.8	5.66
Wick	42.0	32.1	37.5	36.4	3.15
Nairn	41.5	32.8	36.9	35.4	3.08
Aberdeen	41.8	32.9	36.9	35.3	3.34
Leith	44.3	33.6	38.4	37.0	2.01
Shields	42.8	34.3	39.2	36.9	2.74
York	42.5	31.9	36.2	35.4	2.45
Ardrossan	47.0	36.1	40.1	38.3	1.04
Donaghadee	46.7	36.1	40.1	39.1	2.84
Holyhead	46.8	39.6	42.9	41.3	3.84
Liverpool	43.6	35.7	39.4	37.4	2.70
Valencia	50.0	40.0	44.7	41.8	5.82
Roche's Point	47.7	39.3	42.9	41.4	4.74
Pembroke	47.1	40.4	43.7	42.6	4.06
Scilly	49.8	43.9	47.2	45.3	4.10
Burst Castle	45.5	36.5	40.6	39.9	2.84
Dover	44.2	36.5	40.0	38.8	3.20
LONDON	44.5	33.9	38.1	37.1	2.14
Oxford	43.3	33.6	37.3	36.6	2.13
Cambridge	43.3	31.8	36.3	35.6	1.00
Yarmouth	42.2	33.8	37.9	37.2	2.95

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 the Bay of Biscay.

Lowest, 293 m. and lies off the northwest of Norway.

TEMPÉRATURE

Highest  $53^{\circ}$  at Lisbon, and  $52^{\circ}$  at Valencia and Journal.

Lowest 22° at Wiesbaden and Paris, 13° at Lyons, 16° at Leze, and 29° at Loughborough.

Sharp frost occurred over England last night.

WIND

$N^3$  or  $NE^3$  over France, and Spain, strong at Rochefort, Coruna and Lisbon.

Moderate SW<sup>3</sup> or W<sup>5</sup> over sur. Islands and the North Sea.

Moderate to strong  $S_{II}^{32}$  in Sweden.

WEATHER

Time in Denmark, France, and the south east of England

cloudy, or overcast elsewhere, with rain at several of our western stations

During yesterday rain fell generally.

SEA

Moderate to smooth.

### PROBABLE CHANGES IN SYSTEM NOW PREVALENT

The large area of low pressure which lay off the west of Norway yesterday has travelled away north eastwards while the subsidiary disturbances over our islands have moved eastwards:

The barometer, however, after rising generally, is now falling again in the west, with backing winds and unsettled weather, so that further disturbances are probably approaching.

## FORECASTS

for the 24 hours ending at NOON on 6<sup>th</sup> DEC<sup>r</sup>

1886.

DISTRICTS.

## FORECASTS.

DISTRICTS.

## FORECASTS.

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

None issued

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

None issued

## WARNINGS

The S. cone was lowered yesterday in districts 0-1-6-7-9-10, and parts of 2 and 3.



# YESTERDAY'S 2 P.M. REPORTS.

	Bar.	Dry.	Wet.	Wind.	Wea.	Sea.		Bar.	Dry.	Wet.	Wind.	Wea.	Sea.		
Skudesnaes ...	29.29	31	36	NW	4	h v	5	Holyhead ...	29.82	46	41	NNW	5	b p q	4
Sumburgh Head ...	29.47	35	33	N	5	b	5	Valencia ...	30.00	50	48	N	3	b c	3
Stornoway ...	29.78	41	37	NW	4	b h p	3	Scilly ...	29.82	52	50	N	6	a	5
Aberdeen ...	29.64	37	35	NW	4	b e r s p	1	Dungeness ...	29.70	40	40	SW	6	r	4
Shields ...	29.69	43	38	NW	3	c	2	London ...	29.72	44	42	NW	2	o	*
Ardrossan ...	29.79	43	43	NNW	4	b	3	Yarmouth ...	29.68	34	34	SW	4	r s g	5
Malin Head ...	29.88	44	39	N	3	b	3	Jersey ...	29.70	44	43	SSW	5	b	3
Mullaghmore ...	29.93	44	40	N	4	b c	2	Rocheport ...	30.01	36	35	S	5	o	2
Belmullet ...	29.99	46	44	N	3	c	.								

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

Yesterday morning's report showed that pressure was lowest (29.13 and less) off the west of Norway, and rather low (29.45 ins. and less) over Greece and the southern part of Italy and Adriatic. These two low pressure systems were separated by a broad band of high pressure (or "col") which lay over France and Germany, uniting a high pressure area over Austria, and Western Russia, with another lying over the Spanish Peninsula and Northern Africa. W. and SW. winds were consequently prevalent over North-western Europe, and blew freshly in places, with a rise of the thermometer and rain, while over Southern Europe the winds were chiefly E. and light in force, with rather unsettled weather. Temperature was below the freezing point over Germany, France and Spain, as well as over Northern Europe, but was relatively high off our south-west coasts, over Portugal, and over South-eastern Europe. The highest individual readings reported were 57° at Brindisi, 52° at Alicante, 51° at Palma, Corunna and Scilly, and 50° at Valencia; the lowest 21° at Uleaborg, 24° at Riga, Nancy, and Madrid.

During the day the wind again veered to NW. over the British Isles and frost again set in towards night, with some fog.

### EXPLANATION OF COLUMNS GIVEN ON PAGE 1.

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

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

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for Monday 6<sup>th</sup> December 1886.

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.		Sea. (0 to 9.)	SHADE TEMP.		Amount of Rainfall.		
				Direc.	Force. (0 to 12.)		Reading at 32° F. and Sea Level.	Difference from 8 a.m. yesterday.	Dry.	Wet.	Difference from 8 a.m. yesterday.	Direc.	Force. (0 to 12.)		Weather.	Max.		Min.	
SCANDINAVIA.																			
Haparanda ..	29.28	29	SW	2	b	28.94	-.49	29	29	- .4	2	0	S	*	36	44	0.51		
Hernösand ...	29.29	32	SSW	4	o	28.93	-.65	22	22	- 1.1	2	0	b	*	37	?	-		
Stockholm ...	29.50	30	SSW	2	o	29.02	-.82	35	34	+ .7	3	2	h	*	?	27	0.04		
Wisby ...	29.62	35	WNW	6	c	29.17	-.67	38	37	+ .5	WNW	4	h	*	?	30	0.16		
Bodö ...	29.06	27	E	2	b	28.74	-.48	25	22	- 1	ESE	6	b	3	30	23	-		
Christiansund...	29.03	36	SW	6	n	28.65	-.87	40	36	+ .8	SW	4	o	4	?	30	1.02		
Skudesnaes ...	29.31	46	S	6	o	28.94	-.70	45	40	+ .6	WNW	8	o	5	46	39	-		
Christiania Fjord (Færder)	29.35	44	SSW	8	o	28.70	-.91	43	41	+ .3	SSE	4	h	4	?	?	0.28		
Skagen (The Scaw)	29.43	39	SW	4	o	28.75	-.91	44	43	+ 10	SW	5	o	3	?	28	0.24		
Fanö ...	29.58	43	WSW	6	o	29.17	-.59	48	46	+ 11	WSW	8	c	*	43	36	0.20		
BRITISH ISLANDS.																			
Sumburgh Head	29.29	44	W	3	o	28.92	-.46	43	39	+ .2	W	5	o	4	46	39	0.28		
Stornoway ...	29.32	45	WSW	4	d	29.19	-.36	38	37	- .8	W	6	b	5	47	36	0.70		
Wick ...	29.37	43	W	3	o	29.12	-.36	39	38	- .4	W	4	c.u	1	44	32	0.22		
Nairn ...	29.44	46	SW	1	n	29.22	-.35	42	40	0	SW	1	n	1	54	38	0.38		
Aberdeen...	29.47	42	SSW	1	o	29.29	-.34	40	39	+ .3	SW	3	h	2	48	35	0.06		
Leith ...	29.51	48	SW	4	o	29.39	-.35	46	43	+ .3	W	5	c.f	*	52	43	0.03		
Shields ...	29.66	49	SW	3	o	29.52	-.38	46	43	+ .9	SW	4	m	2	54	35	-		
Spurn Head ...	29.80	41	SW	4	n	29.64	-.32	46	45	+ 12	WSW	3	b	2	49	33	0.05		
York ...	29.80	43	S	1	n	29.62	-.34	44	42	+ 12	W	1	b.c	*	52	31	0.06		
Loughborough	29.88	43	SW	4	o	29.69	-.34	51	49	+ 22	WSW	5	b.q	*	51	29	-		
Ardrossan ...	29.61	50	WSW	4	n	29.44	-.33	47	47	+ 1	WSW	7	p	5	51	38	0.01		
Malin Head ...	29.57	50	WSW	5	o	29.46	-.36	47	46	- 2	W	4	o.g.p	5	50	46	0.18		
Mullaghmore ...	29.75	51	WSW	6	n	29.62	-.27	48	45	- 3	WSW	6	o	5	52	46	0.06		
Belmullet ...	29.78	52	SW	6	o	29.66	-.28	47	46	- 4	W	4	o	*	52	47	0.05		
Donaghadee ...	29.73	52	SW	4	o	29.56	-.29	42	41	0	WSW	7	b	5	52	41	0.01		
Barrow-in-Furness	29.76	49	SW	4	n	29.63	-.28	46	44	+ .3	SW	2	b.c	*	51	41	0.23		
Liverpool (Bidston)	29.82	51	WSW	3	o	29.69	-.27	46	46	+ .8	W	4	b.c	3	52	38	0.05		
Holyhead ...	29.87	51	SW	4	o	29.72	-.22	48	46	+ 2	W	3	c.q	2	53	46	0.09		
Parsonstown ...	29.92	52	WSW	4	o	29.75	-.22	47	45	- 4	SW	1	o.g	*	53	46	0.06		
Valencia ...	30.05	53	WSW	4	o.g	29.84	-.25	52	51	0	WSW	3	o.g	4	54	52	0.05		
Roche's Point...	30.01	52	WSW	3	b.c	29.85	-.19	51	49	0	W	4	c	3	55	49	-		
Pembroke ...	29.97	52	SW	4	c	29.83	-.21	52	52	+ .6	WSW	7	e.g	6	53	46	0.10		
Scilly ...	30.09	53	WNW	5	o.g	30.00	-.11	52	52	+ .3	WSW	5	f.d	5	53	48	0.02		
Prawle Point ...	30.04	51	SW	3	m	29.95	-.19	51	51	+ 11	WSW	5	o.m	5	51	39	0.13		
Jersey ...	30.13	45	SW	4	o	30.04	-.09	51	51	+ .9	WSW	5	o.m.p	4	53	41	0.10		
Hurst Castle ...	30.03	48	WSW	6	n	29.90	-.21	50	50	+ 14	WSW	5	c.g	3	50	35	0.07		
Dungeness ...	30.00	46	W	4	c	29.85	-.18	50	49	+ 19	W	4	c	3	50	30	0.10		
London ...	30.00	43	SW	2	o	29.81	-.26	51	50	+ 21	SW	4	o	*	51	30	0.02		
Oxford ...	29.94	45	SW	1	o	29.79	-.29	51	49	+ 20	W	5	o.g.u	*	51	31	-		
Cambridge ...	29.92	40	SW	1	o	29.77	-.28	49	48	+ 19	SW	1	o	*	50	28	0.01		
Yarmouth ...	29.92	37	SW	4	c	29.71	-.28	47	46	+ 16	WSW	3	b.c	3	47	30	-		
Cuxhaven ...	29.92	35	WSW	2	f	29.49	-.32	40	?	+ .8	WSW	7	h	*	41	?	0.08		
Berlin ...	29.94	30	W	1	o	29.73	-.16	31	30	+ 4	SW	6	S	*	34	?	*		
Wiesbaden ...	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	
Munich ...	30.13	24	NW	3	o	30.16	+ .28	18	17	- 6	NW	3	c	*	28	14	0.04		
FRANCE & NETHERLANDS.																			
The Helder ...	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	
Brussels ...	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	
Cape Gris Nez...	30.00	43	W	4	c	29.84	-.15	51	50	+ 11	WSW	8	o	6	?	39	0.04		
Paris ...	30.19	35	S	1	b	30.11	+ .07	34	34	+ 12	S	4	o	*	40	?	0.04		
Brest ...	30.17	52	WNW	4	f	30.11	-.10	52	51	+ .8	NW	5	o	5	?	41	0.04		
Lorient ...	30.22	47	WSW	5	n	30.19	-.05	51	50	+ .7	WNW	4	f	3	52	41	0.08		
Rocheport ...	30.32	40	NNE	4	b	30.29	+ .16	48	46	+ .9	SSW	7	h	3	?	36	-		
Belfort ...	30.09	23	E	1	o	30.28	+ .28	27	26	- 2	SW	3	o	*	?	?	-		
Lyons ...	30.25	28	N	1	o	30.38	+ .38	27	26	+ 4	ESE	1	o	*	30	?	-		
Nice ...	29.93	42	E	4	b	30.15	+ .50	39	34	+ 5	E	3	b	2	48	34	-		
Perpignan ...	30.12	39	NW	5	b	30.26	+ .37	40	33	+ 5	NW	4	b	*	41	?	-		
Biarritz ...	30.26	43	NE	5	b	30.34	+ .22	41	36	- 2	SSW	4	o	2	48	32	-		
PENINSULA.																			
Corunna ...	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	
Lisbon ...	30.18	54	WNW	5	b	30.34	+ .17	47	45	- 8	NNE	5	b	2	57	46	-		

For Explanation of Columns, see p. 4.



# WEATHER CHARTS

for 8 a.m. on Monday 6<sup>th</sup> December

1886.

## 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 —

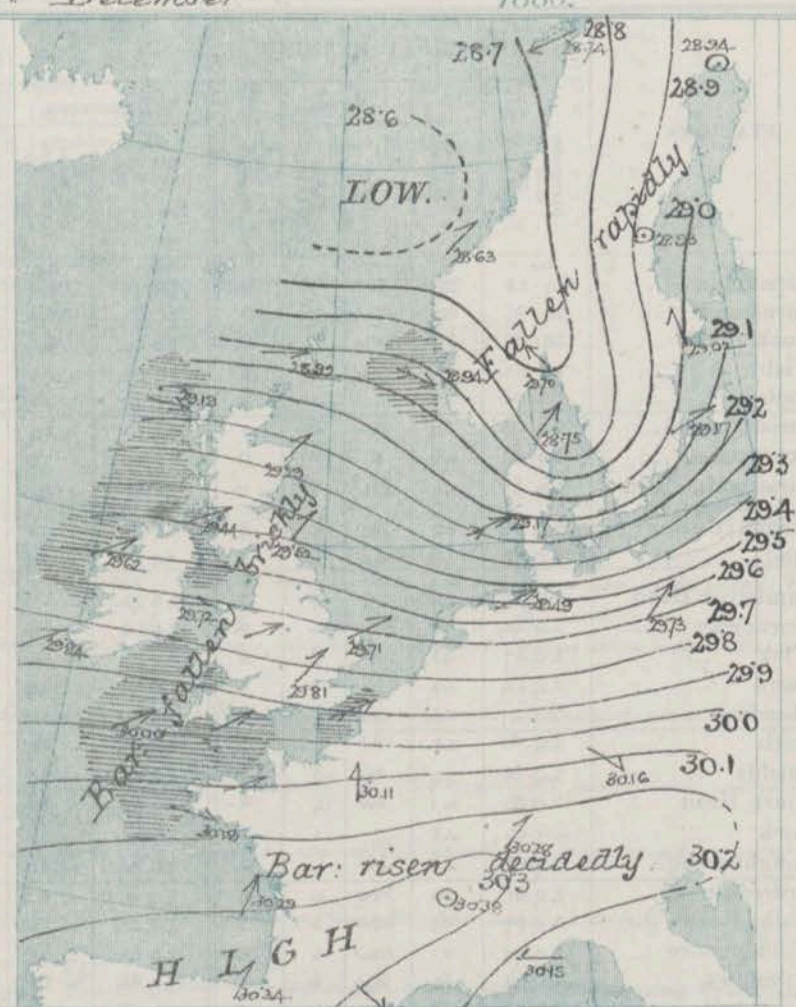
→ — forces above 10; → — forces 8 to 10;  
 → — forces 5 to 7; → — forces 1 to 4;  
 ○ — dead calm.

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

## MEAN HEIGHT of the BAROMETER

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

STATIONS.	MEAN READINGS.
	in.
Saiburgh Head	29.680
Stornoway	29.701
Wick	29.713
Nairn	29.741
Aberdeen	29.750
Leith	29.800
Shields	29.836
York	29.877
Androssan	29.810
Donaghadee	29.832
Holyhead	29.858
Liverpool	29.882
Valencia	29.879
Roche's Point	29.880
Pembroke	29.897
Selly	29.943
Hurst Castle	29.938
Dover	29.942
LONDON	29.934
Oxford	29.937
Cambridge	29.926
Yarmouth	29.902



## 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.

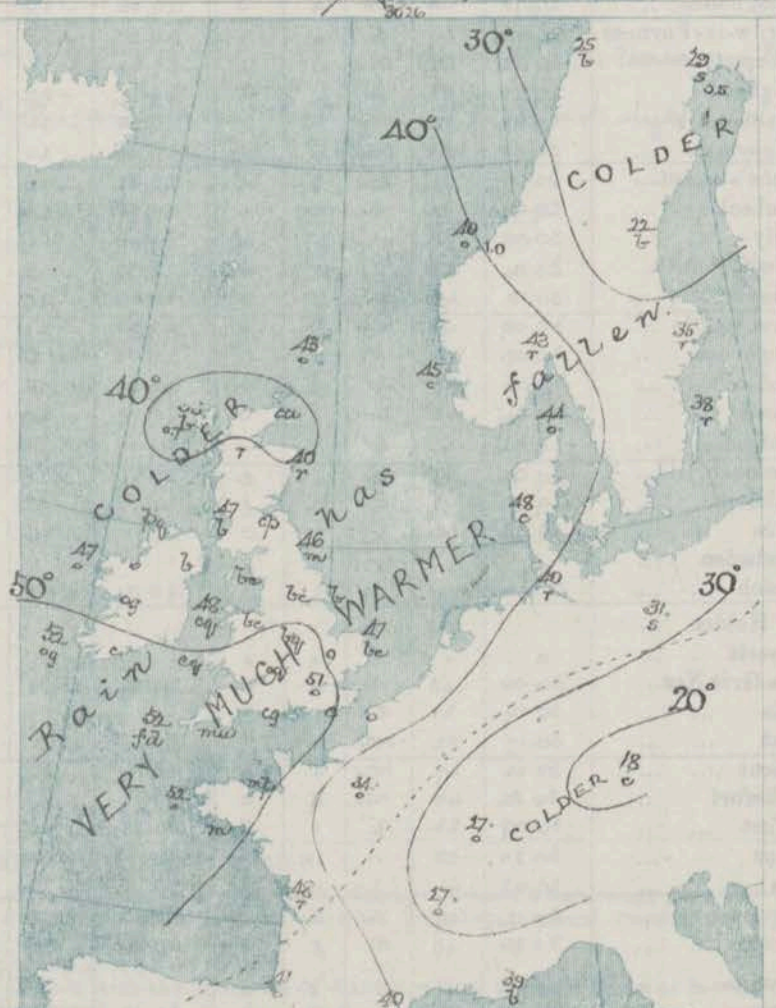
**Rainfall** — A dotted line separates the districts in which rain has fallen from those where there has been none. Falls of 0.5 in. or more, are quoted in figures.

## MEANS OF TEMPERATURE IN SHADE. AND RAINFALL.

for the month of December.

STATIONS	TEMPERATURE.				RAINFALL (Inches)
	Daily Max.	Daily Min.	At 8 a.m.	Sea	
Saiburgh Head	42.0	34.5	39.0	37.6	4.33
Stornoway	44.8	33.5	38.9	37.6	5.66
Wick	42.0	32.1	37.8	36.4	3.18
Nairn	41.5	32.8	36.9	35.4	2.08
Aberdeen	41.8	32.0	36.9	35.3	3.34
Leith	44.3	33.6	38.4	37.0	2.01
Shields	42.8	34.3	39.2	36.9	2.74
York	42.5	31.9	36.2	35.4	2.15
Androssan	47.0	36.1	40.1	38.3	4.04
Donaghadee	46.7	36.1	40.1	39.1	2.84
Holyhead	46.8	39.6	42.0	41.3	3.84
Liverpool	43.6	35.7	39.1	37.4	2.70
Valencia	50.0	40.0	44.7	41.8	5.82
Roche's Point	47.7	39.3	42.9	41.4	4.74
Pembroke	47.1	40.4	43.7	42.6	4.06
Selly	49.8	43.9	47.2	45.3	4.10
Hurst Castle	45.5	36.5	40.6	39.9	2.84
Dover	44.2	36.5	40.0	38.8	3.20
LONDON	44.5	33.9	38.1	37.1	2.14
Oxford	43.3	33.6	37.3	36.6	2.13
Cambridge	43.3	31.8	36.3	35.6	1.99
Yarmouth	42.2	33.8	37.9	37.2	2.95

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, 30.3 ins: and upwards over Spain and the south of France.  
Lowest, 28.6 ins: and less in a depression lying to the northwestward of Christiana and  
A subsidiary disturbance is apparently lying over Central Norway, and very steep gradients prevail over the Danish shores of the Baltic.  
Highest, 30° at Ykensia Sp. and thence

TEMPERATURE

Highest,  $52^{\circ}$  at Valencia, Sicily and Trieste  
Lowest,  $18^{\circ}$  at Munich,  $22^{\circ}$  at Hemsö and,  $25^{\circ}$  at Rode,  $31^{\circ}$  at Berlin and  $38^{\circ}$  at Stormöy.  
Over Antral and SE England temperature is from  $16^{\circ}$  to  $22^{\circ}$  higher than it was yesterday morning.

WIND

Calm in the north of Sweden; strong E<sup>3</sup> at Rodø, variable in the south of France.  
SW<sup>2</sup> or W<sup>2</sup> elsewhere; moderate or fresh in force over the greater part of our Islands, but strong & regular  
on the eastern shores of the North Sea.

## WEATHER

Fair over the west and north of England, and fine in the extreme south of France.  
(Dull elsewhere, with rain at several of the Scandinavian and Scotch stations, and snow at Haparanda).  
In the course of the past 24 hours rain has fallen generally.

SEA

Rough at Pembroke and rather rough on our W. and SW. coasts generally, as well as at Stonoway and Hudsonian.

### PROBABLE CHANGES IN SYSTEM NOW PREVALENT

In the rear of the large depression which is lying off the Norwegian coast the barometer is now rising slightly at some of our northern stations.

At Valencia, however, the mercury appears to be falling steadily and it is therefore not improbable that a subsidiary disturbance will shortly appear in the southwest, and move eastwards over our more southern districts. In this case a considerable increase in the force of the SW<sup>2</sup> and W<sup>1</sup> winds would take place over the Channel.

## FORECASTS

For the 24 hours ending at NOON on 7<sup>TH</sup> December. 1886.

DISTRICTS.		FORECASTS.	DISTRICTS.		FORECASTS.
0	SCOTLAND NORTH	W <sup>2</sup> winds, strong; squally, some showers.	6	SCOTLAND WEST	Same as No 1.
1	SCOTLAND EAST	SW <sup>2</sup> winds, moderate or fresh; changeable, some rain.	7	ENGLAND N.W.	Same as No 5.
2	ENGLAND N.E.	----- D° ----- D° ----- D° -----	8	ENGLAND S.W.	SW <sup>2</sup> to W <sup>2</sup> winds, strong; squally, some rain.
3	ENGLAND EAST	Same as No 5	9	IRELAND NORTH	Same as No 0
4	MIDLAND COUNTIES	Same as No 5	10	IRELAND SOUTH	SW <sup>2</sup> and W <sup>2</sup> winds, increasing in force, squally, some rain.
5	ENGLAND SOUTH	SW <sup>2</sup> winds, increasing in force; fair to squally and some rain.	WARNINGS		NONE ISSUED.



# YESTERDAY'S 2 P.M. REPORTS.

	Bar.	Dry.	Wet.	Wind.	Wes.	Sea.		Bar.	Dry.	Wet.	Wind.	Wes.	Sea.
Skudesnaes ...	29.48	45	41	S 8	✓	5	Holyhead ...						
Sumburgh Head							Valencia ...						
Stornoway ...							Scilly ...						
Aberdeen ...							Dungeness ...						
Shields ...							London ...						*
Ardrossan ...							Yarmouth ...						
Malin Head ...							Jersey ...						
Mullaghmore ...							Rocheport ...	30.27	45	41	N 5	bc	2
Belmullet ...													

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

Yesterday morning's reports showed two high-pressure areas;— one (in which pressure exceeded 30.32 ins) lying over Central and Eastern Russia, the other (in which pressure exceeded 30.1 ins) over the Bay of Biscay, the Spanish Peninsula and adjacent parts of the Atlantic. Over Northern Europe pressure was low, and the two anticyclonic systems just mentioned were separated by a large shallow depression having two minima, one of which lay over Poland, Hungary and Austria, while the other lay over the Gulf of Genoa. Thus, while W and SW winds prevailed over North-western Europe, with variable temperature, N winds were felt in France and the south of the British Islands, SE to S winds over Western and Southern Russia, and NE winds in Poland and on the Baltic coasts of Western Germany. The weather varied greatly; large quantities of snow fell in the eastern parts of Northern Germany, as well as in Poland and Hungary, showers of sleet and cold rain in France, fine dry weather over England, and mild showers in the west and north of the British Islands. Temperature varied from upwards of 50° in the west of our islands, over Portugal the southern parts of the Mediterranean and the Balkan Peninsula to a little below the freezing point over nearly all the inland parts of Northern, Western and Central Europe. The highest individual readings were 57° at Oran (Algiers), 55° at Malta, 54° at Brindisi and 53° at Langunire and Valencia; the lowest 23° at Archangel, 18° at Riga, 29° at Vienna, 24° at Clermont, 30° in London and 29° at Loughborough.

During the day the mild SW winds in the extreme north-west spread southwards over the British Islands and north of France, where the thermometer rose rapidly, and rain fell in many parts of the United Kingdom accompanied by decreasing pressure.

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

FROM THE 28<sup>TH</sup> NOVEMBER TO THE 4<sup>TH</sup> DECEMBER 1886.

The weather of the past week has been changeable and unsettled. During the early part of the period strong SW winds and mild weather prevailed generally, but towards its close light variable or N breezes were reported with a very low temperature.

The distribution of pressure on Sunday and Monday was south-westerly — an anticyclone lay over France while some large areas of low-pressure skirted our north-western and northern coasts, the intervening gradients being rather steep. SW winds and mild showery weather prevailed generally, and in the night of the 28<sup>th</sup> November a fresh gale was experienced in Ireland and Scotland.

On Tuesday the low-pressure areas travelled away to the eastward and the wind veered to NW or N generally with a decided fall of temperature, and snow showers in Scotland. In the course of Wednesday a well-marked subsidiary depression appeared over the north of Scotland and occasioned strong N breezes over the greater part of that country, with heavy snow in many places. By the following morning, however, this had disappeared, and in the course of the ensuing twenty-four hours an area of high-pressure advanced over England from the westward. Light winds now became general and on the morning of the 3<sup>rd</sup> December severe frost was experienced in many parts of Great Britain, the lowest readings of the thermometer being 18° at Aberdeen 19° at Loughborough and 21° in London and at Cambridge.

In the course of the ensuing twenty-four hours the high-pressure system moved away in an easterly or south-easterly direction, and as it did so a large depression appeared off the west of Norway while some subsidiary disturbances advanced across our islands. SW winds, therefore, became general for a time and temperature rose rapidly — especially over central England. At the close of the week, however, the depressions were moving away eastwards, the wind was veering to NW or N generally and the thermometer was again falling fast.

## 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 7<sup>th</sup> December

1886.

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

Issued by the Meteorological Office, 16, Victoria Street, London, W. 1. 5.00 P. M. Secretary.																		
STATIONS.		+ YESTERDAY EVENING.					8 A.M. TO DAY.										PAST 24 HOURS.	
		Barometer at 32° F. and Sea Level.	Temp. in Shade.	WIND.		Weather.	BAROMETER.		SHADE TEMP.			WIND.		Weather.	Sea. (0 to 2.)	SHADE TEMP.		Amount of Rainfall.
				Direc.	Force. (0 to 12.)		Reading at 32° F. and Sea Level.	Difference from 8 a.m. yesterday.	Dry.	Wet.	Difference from 8 a.m. yesterday.	Direc.	Force (0 to 12.)			Max.	Min.	
		Inch.	°				Inch.	Inch.	°	°	°					°	°	Inch.
SCANDINAVIA.	Haparanda ..	28.78	23	SW	2	0	28.79	-15	27	27	-2	SW	2	0	*	34	23	0.24
	Hernösand ...	28.81	22	2	0	0	28.78	-15	31	30	+9	S	2	0	*	34	14	-
	Stockholm ...	28.82	23	WNW	4	S	28.91	-11	33	32	-2	WSW	2	bc	*	36	30	0.28
	Wisby ...	28.84	42	W	8	C	29.01	-16	39	38	+1	SW	4	b	*	46	37	0.63
	Bodö ...	28.82	26	ENE	6	C	28.55	-19	29	26	+4	ENE	5	C	3	?	19	-
	Christiansund...	28.60	38	SW	8	N	28.56	-07	39	35	-1	W	8	C	6	?	32	0.32
	Skudesnaes ...	28.97	41	W	7	0	28.87	-07	41	38	-4	WNW	6	0	5	45	41	-
	Christiania Fjord (Færdar)	28.94	43	WSW	8	6	28.87	+17	42	39	-1	WSW	8	0	4	45	41	-
	Skagen (The Scaw)	29.05	42	HW	5	bc	28.92	+17	37	36	-7	HW	2	b	2	45	37	0.12
	Fanö ...	29.27	44	WSW	6	0	29.04	-13	43	42	-5	W	3	0	*	48	43	0.08
BRITISH ISLANDS.	Sumburgh Head	28.86	38	HW	5	6	28.84	-08	34	34	-9	W	4	S	5	43	32	0.12
	Stornoway ...	29.08	39	W	5	cyp	29.07	-12	36	33	-2	WNW	5	cypsh	4	41	32	0.41
	Wick ...	29.07	36	HW	4	0	28.99	-13	33	32	-6	HW	3	ES	1	40	32	0.09
	Nairn ...	29.12	38	W	1	N	29.09	-13	33	33	-9	W	2	bc	1	42	32	0.27
	Aberdeen...	29.15	39	WSW	4	6	29.08	-21	35	32	-5	WSW	1	b	1	43	33	0.02
	Leith ...	29.25	38	W	2	0	29.15	-24	37	35	-9	W	3	bcn	*	47	36	0.26
	Shields ...	29.31	45	SW	2	N	29.16	-36	39	37	-7	W	3	0	2	50	37	0.03
	Spurn Head ...	29.44	46	SSW	4	0	29.16	-48	41	40	-5	WSW	4	cyp	2	50	40	0.11
	York ...	29.43	46	SW	1	0	29.21	-41	37	36	-7	W	1	0	*	49	36	0.28
	Loughborough	29.53	49	SSW	2	N	29.26	-43	41	39	-10	WSW	5	cyp	*	55	41	0.89
GERMANY.	Ardrossan ...	29.26	43	W	3	6	29.20	-24	40	39	-7	WNW	6	bcyp	5	48	38	0.17
	Malin Head ...	29.29	42	WNW	3	op	29.27	-19	39	37	-8	WNW	4	cyp	6	49	35	0.07
	Mullaghmore ...	29.34	47	WNW	5	p	29.40	-22	42	38	-6	WNW	6	C	6	48	36	0.58
	Belmullet ...	29.37	47	WNW	4	C	29.43	-23	37	37	-10	WNW	2	C	*	48	36	0.51
	Donaghadee ...	29.34	46	W	3	bc	29.33	-23	38	36	-4	WNW	5	b	3	48	36	0.21
	Barrow-in-Furness	29.36	48	SSW	5	0	29.27	-36	39	38	-7	WNW	7	C	*	48	38	0.46
	Liverpool (Bidston)	29.44	46	WSW	3	N	29.31	-38	38	37	-8	WNW	5	nh	5	50	38	0.41
	Holyhead ...	29.44	49	SW	5	mp	29.37	-35	42	40	-6	WNW	8	oq	6	50	40	0.51
	Parsonstown ...	29.43	47	WSW	1	N	29.54	-21	35	34	-12	SW	1	bc	*	50	33	0.18
	Valencia ...	29.50	51	WSW	6	ou	29.66	-18	43	40	-9	WSW	4	bc	5	53	42	0.61
FRANCE & NETHERLANDS.	Roche's Point...	29.47	53	WSW	5	C	29.58	-27	38	36	-13	WNW	4	b	4	54	37	0.48
	Pembroke ...	29.47	51	WSW	8	0	29.47	-36	44	42	-8	WNW	7	bcq	6	52	44	0.42
	Seilly ...	29.73	34	WSW	8	0	29.62	-38	48	44	-4	WNW	9	C	6	54	43	0.12
	Prawle Point ...	29.74	52	WSW	6	m	29.55	-40	44	41	-7	WNW	5	C	5	52	40	0.16
	Jersey ...	29.87	52	WSW	5	0	29.59	-45	48	48	-3	WNW	6	bcn	5	52	47	0.33
	Hurst Castle ...	29.69	52	WSW	7	m	29.46	-44	45	43	-5	WNW	7	b	5	52	44	0.04
	Dungeness ...	29.71	51	W	5	0	29.38	-47	47	45	-3	W	5	0	4	52	46	0.20
	London ...	29.60	52	SW	3	0	29.39	-42	43	39	-8	W	4	b	*	54	43	0.11
	Oxford ...	29.51	53	SW	6	N	29.37	-42	40	37	-11	SW	5	bcq	*	54	40	0.07
	Cambridge ...	29.54	49	SW	1	N	29.30	-47	41	38	-8	SW	2	b	*	55	40	0.13
PENIN- SULA.	Yarmouth ...	29.56	50	WSW	4	C	29.25	-46	42	40	-5	W	4	bc	8	51	41	0.22
	Cuxhaven ...	29.52	41	WSW	4	N	29.13	-36	44	43	+4	WSW	1	bc	*	45	?	0.54
	Berlin ...	29.65	37	SSW	2	0	29.35	-38	42	40	+11	SW	6	0	*	?	?	*
	Wiesbaden ...	*	*	*	*	*	29.62	*	41	40	*	SW	4	0	*	43	39	0.04
	Munich ...	30.03	35	W	2	C	29.80	-36	41	37	+23	SW	6	0	*	41	18	-
	The Helder ...	29.52	49	SW	4	N	29.17	-52	47	46	*	W	7	0	4	50	46	0.39
	Brussels ...	*	*	*	*	*	29.39	-52	48	47	+11	WSW	4	N	*	49	?	0.32
	Cape Gris Nez...	29.69	52	WSW	9	0	29.45	-39	48	45	-3	W	9	0	7	54	36	0.28
	Paris ...	30.00	39	SW	4	0	29.59	-52	47	47	+13	SW	7	0	*	?	?	0.04
	Brest ...	29.95	53	W	8	0	29.71	-40	48	44	-4	WNW	7	0	6	54	46	0.16
FRANCE & NETHERLANDS.	Lorient ...	30.04	54	W	7	0	29.74	-45	50	46	-1	HW	8	bc	6	54	45	0.55
	Rochefort ...	30.22	51	W	4	N	29.89	-40	53	52	+5	WSW	9	C	4	54	48	0.20
	Belfort ...	30.13	33	SW	1	0	29.80	-48	44	43	+17	SW	3	0	*	?	?	0.08
	Lyons ...	30.28	51	SSW	1	0	30.02	-36	36	35	+9	S	4	C	*	36	?	-
	Nice ...	30.15	43	E	3	6	30.09	-06	41	35	+2	SE	1	b	1	52	36	-
	Perpignan ...	30.27	48	HW	4	6	30.12	-14	35	33	-5	S	3	b	*	53	33	-
	Biarritz ...	30.19	51	S	4	N	30.07	-27	53	47	+12	SW	5	b	2	54	39	0.12
	Corunna ...	*	*	*	*	*	*	*	*	*	*	HW	3	C	2	57	?	-
Lisbon ...	30.36	53	HW	4	6	30.36	+02	51	49	+4	HW	3	C	2	57	?	-	



# WEATHER CHARTS

for 8 a.m. on Tuesday, 7<sup>th</sup> December, 1880.

## BAROMETER, WIND & SEA.

(Explanation of Map)

**Barometer** — Isolines are drawn for each tenth of an inch changes since previous morning are stated in words.

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

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

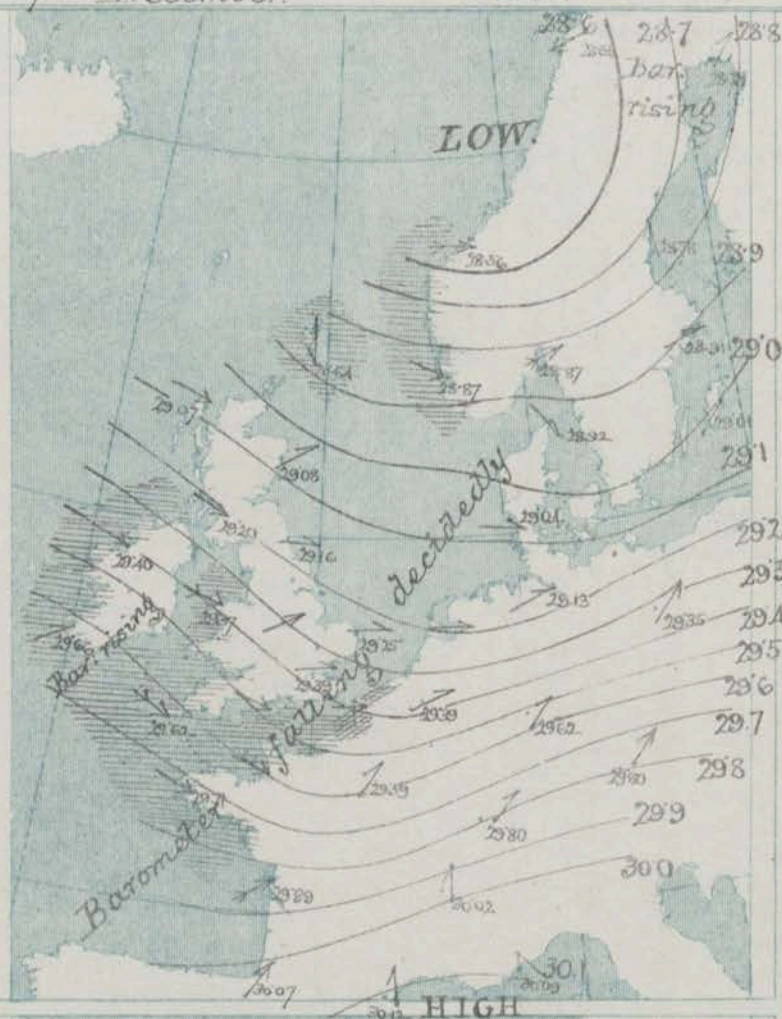
**Sea Disturbance** — where considerable is shown thus

▨ = Rough. ▨ = High.

## MEAN HEIGHT of the BAROMETER

at 8 a.m. for the month of December  
During the 10 years 1871—1880.

STATIONS.	MEAN READINGS.
	in.
Sumbargh Head	29.680
Stornoway	29.701
Wick	29.713
Nairn	29.741
Aberdeen	29.750
Leith	29.800
Shields	29.836
York	29.877
Ardrossan	29.810
Donaghadee	29.832
Holyhead	29.858
Liverpool	29.882
Valencia	29.879
Roche's Point	29.889
Pembroke	29.897
Silly	29.943
Hurst Castle	29.938
Dover	29.942
LONDON	29.934
Oxford	29.937
Cambridge	29.926
Yarmouth	29.902



## 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 December.

STATIONS	TEMPERATURE.				RAINFALL (Inches)
	Daily Max.	Daily Min.	At 8 a.m.	At 8 a.m.	
			Dry	Wet	
Sumbargh Head	42.0	34.5	39.0	37.6	4.33
Stornoway	44.8	38.5	38.9	37.8	5.66
Wick	42.0	32.1	37.8	36.4	3.18
Nairn	41.5	32.8	36.9	35.4	2.08
Aberdeen	41.8	32.9	36.9	35.3	3.34
Leith	44.3	33.6	38.4	37.0	2.01
Shields	42.8	34.3	39.2	36.9	2.74
York	42.5	31.9	36.2	35.4	2.45
Ardrossan	47.0	36.1	40.1	38.3	4.04
Donaghadee	46.7	36.1	40.1	39.1	2.84
Holyhead	49.8	39.6	42.9	41.3	3.84
Liverpool	43.6	35.7	39.1	37.4	2.70
Valencia	50.0	40.0	44.7	41.8	5.82
Roche's Point	47.7	39.3	42.9	41.4	4.74
Pembroke	47.1	40.4	43.7	42.6	4.08
Silly	49.8	43.9	47.2	45.3	4.10
Hurst Castle	45.5	36.5	40.6	39.9	2.84
Dover	44.2	36.5	40.0	38.8	3.20
LONDON	44.5	33.9	38.1	37.1	2.14
Oxford	43.3	33.6	37.3	36.6	2.13
Cambridge	43.3	31.8	36.3	35.6	1.99
Yarmouth	42.2	33.8	37.9	37.2	2.95

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





# GENERAL SITUATION AT 8 A.M.

PRESSURE	Highest, 30.3 ins. and upwards over Portugal. Lowest, 28.6 ins. in a large depression lying off the northwest of Norway. Some shallow subsidiary disturbances are found in the intervening regions.
TEMPERATURE	Highest, 53° at Rochefort and Biarritz, 51° at Lisbon, and 48° at Lilles, Jersey and Brest. Lowest, 27° at Haparanda, 23° at Rode, 33° at Hück and Aarn, and 35° at Skagway.
WIND	Strong to a gale from WNW. over the St. George's and Bristol Channels, as well as in the NW. of France. Moderate SW or W on our East coast and also at Valencia. Strong from SW. in Germany, and light from SW. or S. in Sweden.
WEATHER	Fair at many of our stations, but with showers locally. Snow falling in the N. of Scotland; thunder reported at Rochefort. (During the past 24 hours rain has fallen generally.
SEA	Rough on our west and south coasts generally, as well as at Lumburg Ht.

## PROBABLE CHANGES IN SYSTEM NOW PREVALENT

A large depression with readings below 28.6 ins. still lies off the northwest of Norway, but the high-pressure systems noticed over Spain and the south of France yesterday has moved southwards, and in the meantime some subsidiary disturbances have travelled eastwards over our Islands.

These systems are now passing away over the North Sea, and the barometer is rising at many of our western stations, while the wind has veered to W. or WNW. At Valencia, however, the wind still holds to the southward of W. and it is therefore not improbable that further subsidiary depressions will slowly advance over Ireland and England.

## FORECASTS

for the 24 hours ending at NOON on 8<sup>th</sup> December 1886.

DISTRICTS.	FORECASTS.	DISTRICTS.	FORECASTS.
0 SCOTLAND NORTH	W <sup>h</sup> and NW <sup>h</sup> winds, freshening, changeable, some snow showers.	6 SCOTLAND WEST	W <sup>h</sup> winds, strong; equally, some showers.
1 SCOTLAND EAST	-----D°-----D°-----D°-----	7 ENGLAND N W.	W <sup>h</sup> and NW <sup>h</sup> strong winds and gales; equally, showery.
2 ENGLAND N E	W <sup>h</sup> and SW <sup>h</sup> winds, fresh, changeable some showers.	8 ENGLAND S. W.	-----D°-----D°-----D°-----
3 ENGLAND EAST	D°-----D°-----D°-----	9 IRELAND NORTH	-----D°-----D°-----D°-----
4 MIDLAND COUNTIES	-----D°-----D°-----D°-----	10 IRELAND SOUTH	W <sup>h</sup> to NW <sup>h</sup> winds, increasing in force; fair to showery.
5 ENGLAND SOUTH	W <sup>h</sup> winds, fresh or strong; fair to showery.	WARNINGS	The south cone was hoisted yesterday in districts 7 to 10 and part of 5. An asterisk is inserted against those districts in which the signals are now flying.



# YESTERDAY'S 2 P.M. REPORTS.

	Bar.	Dry.	Wet.	Wind.	Wes.	Sea.		Bar.	Dry.	Wet.	Wind.	Wes.	Sea.
Skudesnaes ...	28.99	43	40	W 7	c h q	5	Holyhead ...	29.59	49	47	W 5	o q	4
Sumburgh Head ...	28.87	40	37	W 5	c p	4	Valencia ...	29.60	52	52	W 5	n	5
Stornoway ...	29.14	39	38	W 6	c q p	5	Scilly ...	29.85	64	58	W 5	o	6
Aberdeen ...	29.23	42	38	W 5	h	1	Dungeness ...	29.79	52	51	W 5	o	4
Shields ...	29.46	48	45	W 4	h	2	London ...	29.75	53	50	W 5	c q	*
Ardrossan ...	29.37	47	46	W 5	e	4	Yarmouth ...	29.65	51	50	W 5	e	3
Malin Head ...	29.30	47	46	W 4	o	4	Jersey ...	29.95	51	51	W 5	o	4
Mullaghmore ...	29.43	48	47	W 6	o q q	6	Rocheport ...	29.25	53	53	W 5	o	2
Belmullet ...	29.47	50	48	W 5	o	*							

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

Yesterday morning's reports showed that pressure was highest (30.3 ins and upwards) over Portugal, Spain and the southern part of France, whence a band of high readings (exceeding 30.1 ins.) stretched eastwards and southwards over Switzerland, Austria, the Adriatic and the Balkan Peninsula. To the northward of this band pressure decreased to about 28.6 ins: in a large depression, whose centre lay off the west of Norway, while to the southward it decreased to 29.6 ins: in another depression lying over Algeria. W. winds, fresh to strong in force prevailed over all the northern half of Europe, accompanied by cloudy mild weather in most places and rain at times. Over the Mediterranean the wind was N — light at the more northern stations, with fine weather, but strong at Algiers, with rain. Temperature varied from somewhat above 50° both over the southern parts of the Mediterranean, and the south-west and south of the British Isles, to considerably below the freezing point over Central France and Germany, with eastern and northern Europe. The highest individual readings were 56° at Algiers, 55° at Malta, 52° at Valencia, Seilly, and Brest and 51° in London; the lowest 24° at Hague and Kuopio, 25° at Cracow, 26° at Warsaw, and 27° at Belfast and Lyons. Lyons was thus 24° colder than London.

During the day the low-pressure area in the north spread further to the southward, and as some subsidiary disturbance appeared the W. wind blew hard over the British Isles, with rain at times, and a very unsettled looking sky.

### 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 8<sup>th</sup> December

1886.

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 Rain-fall.	
				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.		
		Inch.	°				Inch.	Inch.	°	°	°					°	°	Inch.	
SCANDINAVIA.	Haparanda ..														*				
	Hernösand ...														*				
	Stockholm ...														*				
	Wisby ...														*				
	Bodö ...														*				
	Christiansund...																		
	Skudesnaes ...																		
	Christiania Fjord (Færd)																		
	Skagen (The Seaw)	28.95	36	W	2	0	29.01	+ .09	34	33	- 3	W	3	c	2	41	34	0.08	
	Fanö ...	29.16	37	W	6	r	29.17	+ .13	37	36	- 6	Z	0	c	*	43	36	0.16	
BRITISH ISLANDS.	Sumburgh Head	28.91	37	NW	3	c	28.66	- .18	35	34	+ 1	E	3	s	3	38	31	0.26	
	Stornoway ...	29.08	34	SSW	3	cfs	28.28	- .79	36	33	0	E	9	ag	Y	38	25	0.29	
	Wick ...	29.07	33	N	3	0	28.34	- .65	38	36	+ 5	SE	6	au	2	40	26	0.12	
	Nairn ...	29.10	33	Z	0	c	28.25	- .81	35	34	+ 2	E	3	0	2	37	26	0.05	
	Aberdeen...	29.13	33	W	1	b	28.38	- .70	41	37	+ 6	SE	9	aggr	6	40	28	-	
	Leith ...	29.22	36	W	2	b	28.19	- .96	35	35	- 2	SE	5	0	*	47	32	0.15	
	Shields ...	29.30	37	W	3	bc	28.33	- .83	39	38	0	SSE	7	r	4	44	32	0.29	
	Spurn Head ...	29.40	37	W	5	bc	28.46	- .70	42	42	+ 1	SSE	10	rgm	6	42	27	0.17	
	York ...	29.38	37	N	2	bc	28.34	- .87	41	40	+ 4	S	6	r	*	42	32	0.21	
	Loughborough	29.48	39	WSW	5	b	28.44	- .82	44	43	+ 3	S	7	or	*	44	34	0.39	
GERMANY.	Ardrossan ...	29.25	40	Z	0	r	28.01	- 1.19	44	43	+ 4	SW	6	bc	5	44	34	0.40	
	Malin Head ...	29.25	37	SW	3	aghp	27.75	- 1.52	36	36	- 3	S	4	op	3	43	34	0.17	
	Mullaghmore ...	29.34	38	SSW	5	r	27.80	- 1.60	40	39	- 2	SSW	8	or	6	44	31	0.69	
	Belmullet ...	29.34	42	WNW	7	0	27.58	- 1.85	44	42	+ 7	WSW	12	0	*	44	37	1.01	
	Donaghadee ...	29.35	35	WNW	5	bc	28.07	- 1.26	40	38	+ 2	SW	7	b	5	45	38	0.71	
	Barrow-in-Furness	29.37	41	W	5	b	28.21	- 1.06	42	41	+ 3	S	8	orhy	*	43	36	0.23	
	Liverpool (Bidston)	29.42	39	WSW	6	bc	28.30	- 1.01	42	39	+ 4	SW	4	0	4	44	36	0.38	
	Holyhead ...	29.45	42	WSW	5	c	28.28	- 1.09	45	40	+ 3	WSW	9	cmq	Y	45	41	0.30	
	Parsonstown ...	29.48	35	SSE	1	c	28.11	- 1.43	35	35	0	SSW	9	rth	*	45	33	0.98	
	Valencia ...																		
FRANCE & NETHERLANDS.	Roche's Point...	29.47	43	W	4	0	28.45	- 1.13	42	39	+ 4	W	8	bc	6	46	38	0.65	
	Pembroke ...																		
	Scilly ...	29.72	48	W	6	op	28.75	- .87	42	41	- 6	W	11	ohq	Y	48	40	0.52	
	Prawle Point ...	29.70	44	WSW	5	bc	28.70	- .85	44	43	0	WSW	8	rw	8	50	40	0.44	
	Jersey ...	29.77	45	WNW	5	bc	28.82	- .77	50	50	+ 2	WSW	8	rm	7	50	48	0.43	
	Hurst Castle ...	29.67	44	WNW	6	b	28.66	- .80	50	50	+ 5	SW	11	orm	6	52	44	0.25	
	Dungeness ...	29.60	41	NW	4	b	28.89	- .49	45	45	- 2	SSW	10	r	5	48	38	0.20	
	London ...	29.60	39	WNW	3	b	28.63	- .76	46	45	+ 3	S	8	r	*	46	37	0.27	
	Oxford ...	29.57	37	SSW	3	b	28.52	- .85	48	44	+ 8	SSW	9	rg	*	48	36	0.24	
	Cambridge ...	29.53	38	SW	2	b	28.60	- .70	44	43	+ 3	S	6	r	*	44	34	0.16	
PENINSULA.	Yarmouth ...	29.47	38	WNW	5	b	28.74	- .51	43	42	+ 1	S	8	rw	6	43	34	0.13	
	Cuxhaven ...	29.42	42	W	6	r	29.31	+ .18	37	37	- 7	SW	6	0	*	44	36	0.54	
	Berlin ...	29.50	42	SW	3	c	29.56	+ .21	35	33	- 7	SW	1	b	*	45	34	*	
	Wiesbaden ...	*	*	*	*	*	29.63	+ .01	39	37	- 2	SW	3	0	*	46	34	0.12	
	Munich ...	29.69	41	W	7	0	29.78	- .02	30	28	- 11	SE	3	b	*	45	30	-	
	The Helder ...	29.41	43	WNW	7	bc	29.12	- .05	39	38	- 8	S	5	0	2	48	37	0.12	
	Brussels ...	*	*	*	*	*	29.27	- .12	39	39	- 9	SW	4	0	*	?	36	0.04	
	Cape Gris Nez...	29.59	43	WNW	9	b	29.02	- .43	42	42	- 6	SSW	9	r	7	48	41	0.16	
	Paris ...	29.77	42	WSW	3	c	29.42	- .17	41	39	- 6	SSW	8	0	*	51	36	0.28	
	Brest ...	29.86	48	WNW	5	0	28.94	- .77	53	52	+ 5	WSW	11	r	9	54	46	0.43	
PENINSULA.	Lorient ...	29.90	47	NW	8	bc	29.05	- .69	54	54	+ 4	WSW	11	r	8	?	48	0.35	
	Rochefort ...	30.04	50	WNW	8	bc	29.62	- .27	52	50	- 1	SW	9	r	4	55	43	0.63	
	Belfort ...	29.77	43	SW	3	0	29.71	- .09	34	33	- 10	NE	1	b	*	49	34	0.04	
	Lyons ...	30.01	50	W	4	bc	29.85	- .17	37	33	+ 1	SSW	1	b	*	46	33	0.08	
	Nice ...	29.85	46	W	1	c	29.81	- .28	41	38	0	E	3	b	2	50	37	-	
	Perpignan ...	30.03	51	NW	5	0	29.91	- .17	36	34	+ 1	NW	3	b	*	59	35	-	
	Biarritz ...	30.14	54	W	8	r	29.76	- .31	51	45	- 2	SSW	4	0	6	55	45	0.46	
	Corunna ...	*	*	*	*	*													
	Lisbon ...	30.35	55	WNW	3	0	30.22	- .14	57	56	+ 6	WSW	7	r	5	57	?	0.12	

For Explanation of Columns, see p. 4.



# WEATHER CHARTS

for 8 a.m. on *Wednesday 8<sup>th</sup> December 1886.*

## 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. The 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.

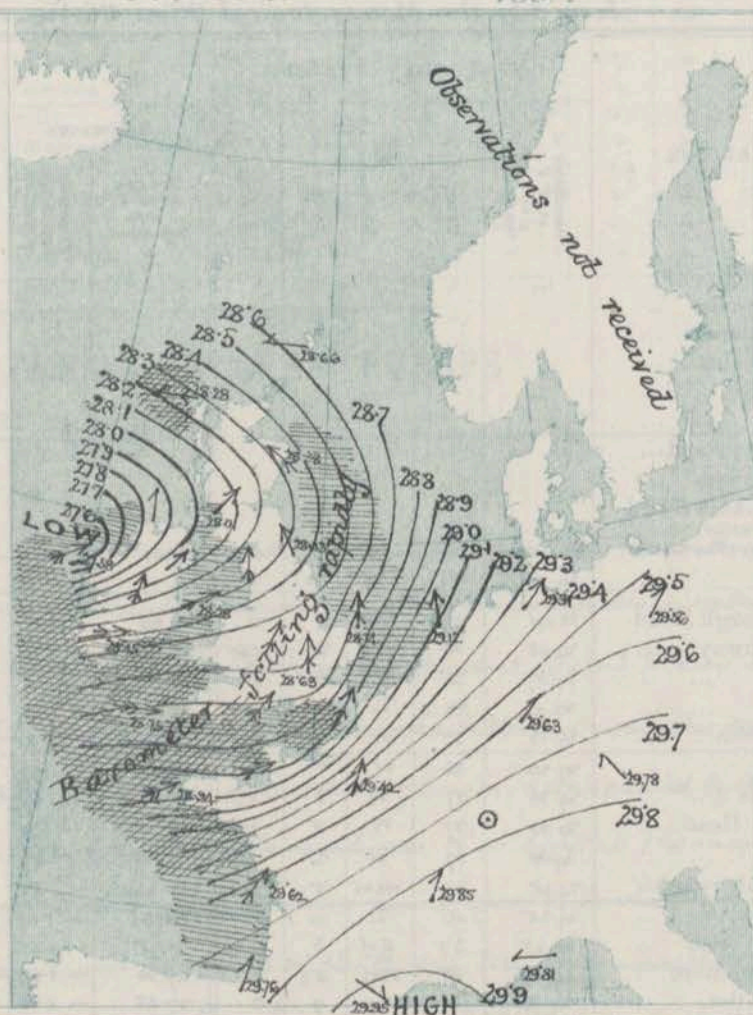
**Sea Disturbance** — where considerable is shown thus

— Rough. — High

## MEAN HEIGHT of the BAROMETER

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

STATIONS.	MEAN READINGS.
Sanbury Head	29.480
Stornoway	29.701
Wick	29.713
Nairn	29.711
Aberdeen	29.750
Leith	29.800
Shields	29.836
York	29.877
Ardrossan	29.810
Donaghadee	29.832
Holyhead	29.858
Liverpool	29.882
Valencia	29.879
Roche's Point	29.889
Pembroke	29.807
Scilly	29.943
Hurst Castle	29.938
Dover	29.912
LONDON	29.934
Oxford	29.937
Cambridge	29.926
Yarmouth	29.902



## 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.

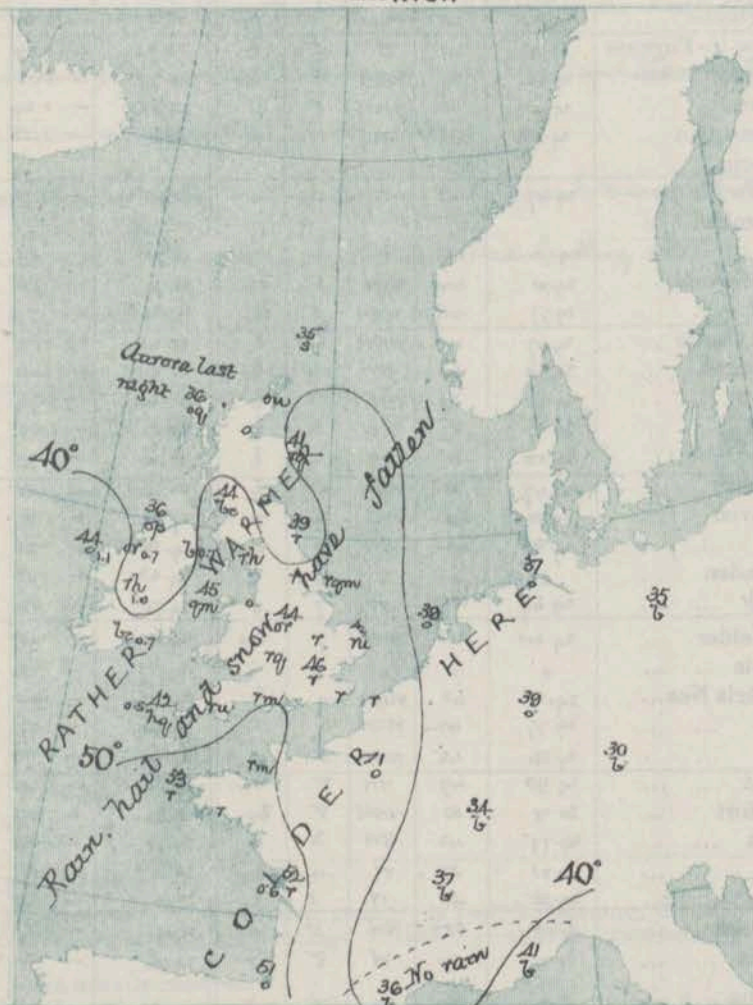
**Rainfall** — A dotted line separates the districts in which rain has fallen from those where there has been none. Falls of 0.5 in. or more, are quoted in figures.

## MEANS OF TEMPERATURE IN SHADE. AND RAINFALL.

for the month of December

STATIONS	TEMPERATURE				RAINFALL (Inches)
	Daily Max.	Daily Min.	At 8 a.m.	At 8 a.m.	
			Day	Night	
Sanbury Head	42.0	34.5	39.0	37.6	4.33
Stornoway	41.8	33.5	38.9	37.8	5.66
Wick	42.0	32.1	37.8	36.4	3.18
Nairn	41.5	32.8	36.9	35.4	2.08
Aberdeen	41.8	32.9	36.0	35.3	3.34
Leith	44.3	33.6	38.4	37.0	2.01
Shields	42.8	34.3	39.2	36.9	9.74
York	42.5	31.9	38.2	35.4	2.45
Ardrossan	47.0	36.1	40.1	38.3	4.04
Donaghadee	46.7	36.1	40.1	39.1	2.84
Holyhead	46.8	39.6	42.9	41.3	8.84
Liverpool	43.0	35.7	39.1	37.4	2.70
Valencia	50.0	40.0	44.7	41.8	5.82
Roche's Point	47.7	39.3	42.9	41.4	4.74
Pembroke	47.1	40.4	43.7	42.6	4.06
Scilly	49.8	43.0	47.2	45.3	4.10
Hurst Castle	45.5	36.5	40.6	39.9	2.84
Dover	44.2	36.5	40.0	38.8	3.20
LONDON	44.5	33.9	38.1	37.1	2.14
Oxford	43.3	33.6	37.3	36.6	2.13
Cambridge	43.3	31.8	36.3	35.6	1.40
Yarmouth	42.2	33.8	37.9	37.2	2.95

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, 30.22 ins at Lisbon  
Lowest, 27.6 ins and lies in a very deep depression lying off the north-west of Ireland.  
Deep, but somewhat irregular gradients prevail over the whole of Western Europe.

## TEMPERATURE

Highest, 57° at Lisbon 51° to 54° in the west of France and 50° at Jersey.  
Lowest, 30° at Munich, 35° at Lumburg Head, Rairn, Leith, Parsonston and Berlin and 36° at Pargimau.

## WIND

Strong to a gale from W on our south-west coasts, from SW in the Channel, from S in the east of England, from SE at Aberdeen and from E at Limerick.  
Over our western and southern coasts the gale is very severe.

## WEATHER

Fine in Germany and the south of France  
Cloudy or overcast in most other localities with rain and hail showers at many stations.  
A heavy hail squall with thunder and lightning passed over London at 9 am.

## SEA

Very rough at Brest Point and also off the north-west of France; high or rough generally.

## PROBABLE CHANGES IN SYSTEM NOW PREVALENT

In the course of the past night the centre of a large and very deep depression has advanced to the north-west of Ireland occasioning a rapid fall of the barometer on all our coasts. At Mullaghmore the fall since 10 pm yesterday amounts to as much as 1.28 in. In the meantime some secondary disturbances have appeared over England.

The main depression seems likely to travel in a north-easterly direction across Scotland, and in its rear the wind will probably blow very hard from the NW<sup>rd</sup> on our north and north-west coasts. There is still a tendency for the development of subsidiary depressions over England, so that heavy rain and hail squalls will probably occur at times.

11.45 am The reports from Valencia, Pembroke and the Scandinavian and Danish stations have not yet arrived.

## FORECASTS

For the 24 hours ending at NOON on 9<sup>th</sup> December 1886.

### DISTRICTS.

### FORECASTS.

* 0	SCOTLAND NORTH	S <sup>ly</sup> and E <sup>ly</sup> gales, subsequently shifting to the NW <sup>rd</sup> and blowing harder; squally, with snow.
* 1	SCOTLAND EAST	-----D°-----D°-----
* 2	ENGLAND N.E.	Same as N° 5.
* 3	ENGLAND EAST	Same as N° 5.
* 4	MIDLAND COUNTIES	Same as N° 5.
* 5	ENGLAND SOUTH	S <sup>ly</sup> to W <sup>ly</sup> gales; squally, with hail or sleet showers, then improving somewhat.

### DISTRICTS.

### FORECASTS.

* 6	SCOTLAND WEST	SW <sup>ly</sup> to NW <sup>ly</sup> gales; squally, hail and sleet showers.
* 7	ENGLAND N.W.	-----D°-----D°-----
* 8	ENGLAND S.W.	W <sup>ly</sup> to NW <sup>ly</sup> gales; squally, hail and rain showers.
* 9	IRELAND NORTH	Same as N° 6.
* 10	IRELAND SOUTH	Same as N° 8.

### WARNINGS

The S. cone was hoisted last evening in districts 3, 5 and 6, and this morning in district 2. The N. cone has been hoisted this morning in districts 9 and 1.  
An asterisk is inserted against those districts in which the signals are now flying.



# YESTERDAY'S 2 P.M. REPORTS.

	Bar.	Dry.	Wet.	Wind.	Wes.	Sea.		Bar.	Dry.	Wet.	Wind.	Wes.	Sea.		
Skudesnaes ...	28.87	35	36	WNW	7	r	5	Holyhead ...	29.47	43	40	WNW	7	cq	5
Sumburgh Head	28.90	37	34	NW	3	c	4	Valencia ...	29.64	42	42	W	7	cqhrp	5
Stornoway ...	29.12	35	35	SW	4	chspg	4	Scilly ...	29.75	44	43	WNW	8	chg	6
Aberdeen ...	29.10	37	34	W	4	b	1	Dungeness ...	29.49	41	41	NW	5	bc	4
Shields ...	29.25	44	42	W	4	b	2	London ...	29.51	44	40	NW	3	b	*
Ardrossan ...	29.28	40	39	WNW	4	bcpq	4	Yarmouth ...	29.35	40	38	NW	5	bc	4
Malin Head ...	29.27	40	38	WNW	4	o	4	Jersey ...	29.70	48	40	WNW	6	bc	5
Mullaghmore ...	29.39	42	40	WSW	6	cphrq	5	Rocheport ...	29.94	53	49	WNW	8	r	3
Belmullet ...	29.43	43	40	WNW	7	c	*								

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

*The Continental Reports have not yet arrived*

### EXPLANATION OF COLUMNS GIVEN ON PAGE 1.

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

\* 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 9<sup>th</sup> December 1886.  
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.		BAROMETRE.		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 ..	28.88	27	SE	2	c	29.13	+ .34	27	26	- .4	S	2	b	*		32	28	0.12
	Hernösand ...	28.98	4	SE	0	b	28.94	+ .12	32	30	+ .22	SSE	4	a	*		?	3	-
	Stockholm ...	29.08	49	SE	1	b	28.79	- .16	37	36	+ .6	SE	4	a	*		?	30	0.08
	Wisby ...																		
	Bodö † ...	28.76	23	ESE	2	b	29.24	- .28	23	21	- .5	ESE	4	b	2		28	19	-
	Christiansund...†	28.69	33	ESE	6	L	28.48	- .18	36	32	+ .2	ESE	4	o	4		36	30	0.04
	Skudesnaes ...	28.24	41	ESE	9	n	28.15	- .74	41	37	+ .5	ESE	6	o	5		41	36	-
	Christiania Fjord (Færd)	28.69	40	SE	9	o	28.40	- .53	42	39	+ .3	SSE	8	o	4		?	37	0.51
	Skagen (The Scaw)	28.56	38	S	8	o	28.39	- .62	41	38	+ .7	S	7	c	4		41	34	0.28
	Faro ...	28.37	40	S	7	c	28.30	- .57	41	39	+ .4	SSW	8	c	*		41	34	0.35
BRITISH ISLANDS.	Sumburgh Head	28.08	38	E	9	n	28.19	- .47	41	40	+ .6	NE	4	o	7		42	35	0.44
	Sornoway ...	27.91	39	NE	10	n	28.40	+ .12	39	37	+ .3	NE	6	g	5		40	33	0.95
	Wick ...	27.81	43	ESE	5	o	28.23	- .14	40	39	+ .2	NE	2	o	2		43	32	0.70
	Nairn ...	27.70	33	SE	0	c	28.20	- .08	37	36	+ .2	NE	3	o	3		39	29	0.44
	Aberdeen ...	27.81	35	SSW	1	cm	28.09	- .29	38	37	- .3	NE	6	n	5		41	34	0.76
	Leith ...	27.66	39	SE	3	c	28.14	- .05	38	37	+ .3	W	1	c	*		40	34	0.11
	Shields ...	27.78	39	S	6	n	28.06	- .27	37	35	- .2	WSW	4	b	3		43	34	0.13
	Sparn Head ...	27.99	41	S	9	b	28.16	- .30	40	38	- .2	WSW	5	b	4		44	38	0.10
	York ...	27.90	39	S	5	o	28.18	- .16	38	36	- .3	W	3	b	*		45	32	0.23
	Loughborough	28.07	45	SW	8	n	28.25	- .19	39	37	- .5	W	4	c	*		46	37	0.34
GERMANY.	Ardrossan ...	27.62	37	NE	4	cm	28.28	+ .27	41	39	- .3	NE	9	o	7		45	36	0.01
	Malin Head ...	27.76	40	NE	8	o	28.52	+ .77	41	36	+ .5	NE	9	o	7		42	34	0.04
	Mullaghmore ...	27.82	43	NE	8	o	28.70	+ .90	43	39	+ .3	NE	8	o	6		44	34	0.61
	Belmullet ...	28.08	42	NE	10	o	28.85	+ .12	43	38	- .1	NE	6	b	*		44	36	0.40
	Donaghadee ...	27.63	42	SW	8	c	28.40	+ .03	41	39	+ .1	N	10	a	8		44	38	0.18
	Barrow-in-Furness	27.41	43	W	11	n	28.21	.00	42	39	0	WSW	9	o	6		44	35	0.10
	Liverpool (Bidston)	27.78	40	SW	7	b	28.30	.00	43	39	+ .1	NE	7	o	6		44	37	0.32
	Holyhead ...	27.77	44	WSW	10	o	28.43	+ .15	44	40	- .1	NE	11	o	9		45	40	0.32
	Parsonstown ...	28.04	39	W	3	n	28.79	+ .68	39	36	+ .4	W	2	c	*		42	32	0.81
	Valencia ...	28.51	43	WSW	10	o	28.97	+ .66	44	41	+ .1	NE	6	c	6		45	41	0.36
FRANCE & NETHERLANDS.	Roche's Point...	28.35	40	WSW	8	c	28.82	+ .37	40	38	- .2	NE	8	b	5		45	38	0.45
	Pembroke ...																		
	Scilly ...	28.63	42	W	11	c	28.80	+ .05	42	42	+ .2	NE	9	o	7		45	34	0.17
	Prawle Point ...	28.51	43	WSW	10	c	28.67	- .03	41	40	- .3	NE	6	g	7		47	38	0.20
	Jersey ...	28.70	43	WSW	10	c	28.72	- .10	45	42	- .5	W	9	o	7		51	33	0.50
	Hurst Castle ...	28.49	44	W	10	c	28.51	- .15	45	45	- .5	W	10	o	6		50	39	0.34
	Dungeness ...	28.48	45	WSW	10	c	28.38	- .51	44	43	- .1	W	10	a	7		50	40	0.57
	London ...	28.39	40	SW	7	c	28.39	- .24	42	40	- .4	W	7	o	*		48	40	0.35
	Oxford ...	28.25	37	SW	7	n	28.37	- .15	41	39	- .7	W	5	o	*		48	35	0.64
	Cambridge ...	28.27	39	SSW	6	c	28.31	- .29	39	38	- .5	W	2	c	*		48	36	0.40
PENINSULA.	Yarmouth ...	28.35	40	SW	5	c	28.24	- .50	38	37	- .5	WSW	4	c	4		44	36	0.25
	Cuxhaven ...	28.74	36	SSE	9	n	28.51	- .80	39	37	+ .2	SSW	7	c	*		39	36	0.38
	Berlin ...	29.03	40	S	8	o	28.89	- .67	43	39	+ .8	SW	4	b	*		43	?	*
	Wiesbaden ...	*	*	*	*	*	28.95	- .68	41	38	+ .2	SW	3	c	*		45	37	0.28
	Munich ...	29.20	37	SE	0	o	29.19	- .59	41	37	+ .11	SW	4	o	*		?	30	-
	The Helder ...	28.37	43	SW	8	c	28.28	- .84	40	39	+ .1	SSW	11	n	5		45	37	0.63
	Brussels ...	*	*	*	*	*	28.65	- .62	39	35	0	SW	11	b	*		46	38	0.39
	Cape Gris Nez...	28.69	43	W	12	L	28.42	- .60	44	44	+ .2	?	12	n	9		48	37	0.67
	Paris ...	28.91	45	SW	3	o	28.92	- .50	38	35	- .3	SSW	8	b	*		47	35	0.35
	Brest ...																		
PENINSULA.	Lorient ...	28.97	47	WSW	11	c	28.97	- .08	46	41	- .8	NE	11	c	8		54	39	0.55
	Rochefort ...	29.21	51	W	8	n	29.16	- .86	45	43	- .7	WSW	9	n	3		57	32	1.06
	Belfort ...	29.13	38	SW	4	o	29.16	- .55	41	38	+ .7	SW	7	c	*		51	32	0.28
	Lyons ...	29.35	43	SSE	9	o	29.28	- .57	41	37	+ .4	W	3	b	*		47	?	0.24
	Nice ...	29.67	47	W	1	n	29.29	- .52	48	47	+ .7	SSW	1	o	5		54	39	0.16
	Perpignan ...	29.56	42	NE	3	c	29.44	- .51	49	45	+ .13	W	0	o	*		52	36	-
	Biarritz ...																		
	Corunna ...	*	*	*	*	*													
	Lisbon ...	30.06	58	SW	8	n	30.01	- .21	54	50	- .3	NE	7	b	8		59	54	0.51

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



# WEATHER CHARTS

for 8 a.m. on *Thursday, 9<sup>th</sup> December*

1886.

## 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 11 to 10,

→→ = forces 5 to 7, →→ = forces 1 to 4,

○ = dead calm.

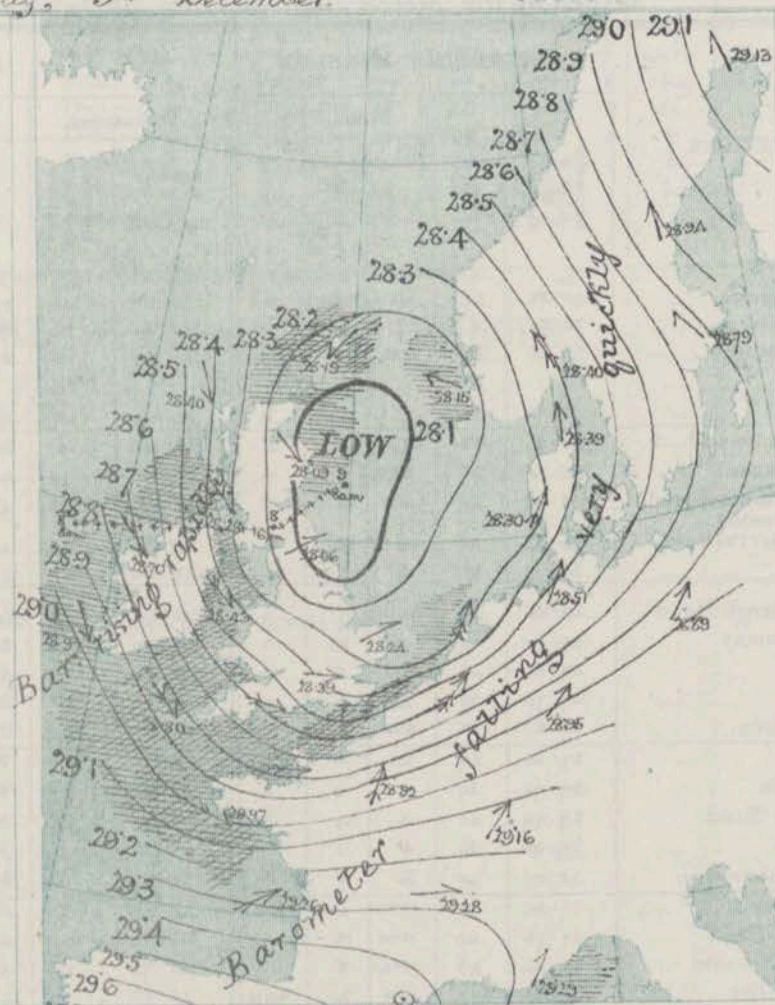
**Sea Disturbance** — where considerable is shown thus

▨ = Rough ▨ = High

## MEAN HEIGHT of the BAROMETER

at 8 a.m. for the month of December  
during the 10 years 1871—1880.

STATIONS.	MEAN READINGS.
	in.
Sunburgh Head	29.680
Stornoway	29.701
Wick	29.713
Nairn	29.741
Aberdeen	29.750
Leith	29.800
Shields	29.839
York	29.877
Ardrossan	29.810
Donaghadee	29.832
Holyhead	29.858
Liverpool	29.882
Valencia	29.879
Roche's Point	29.889
Pembroke	29.897
Scilly	29.943
Hurst Castle	29.988
Dover	29.912
LONDON	29.934
Oxford	29.937
Cambridge	29.926
Yarmouth	29.902



## 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.

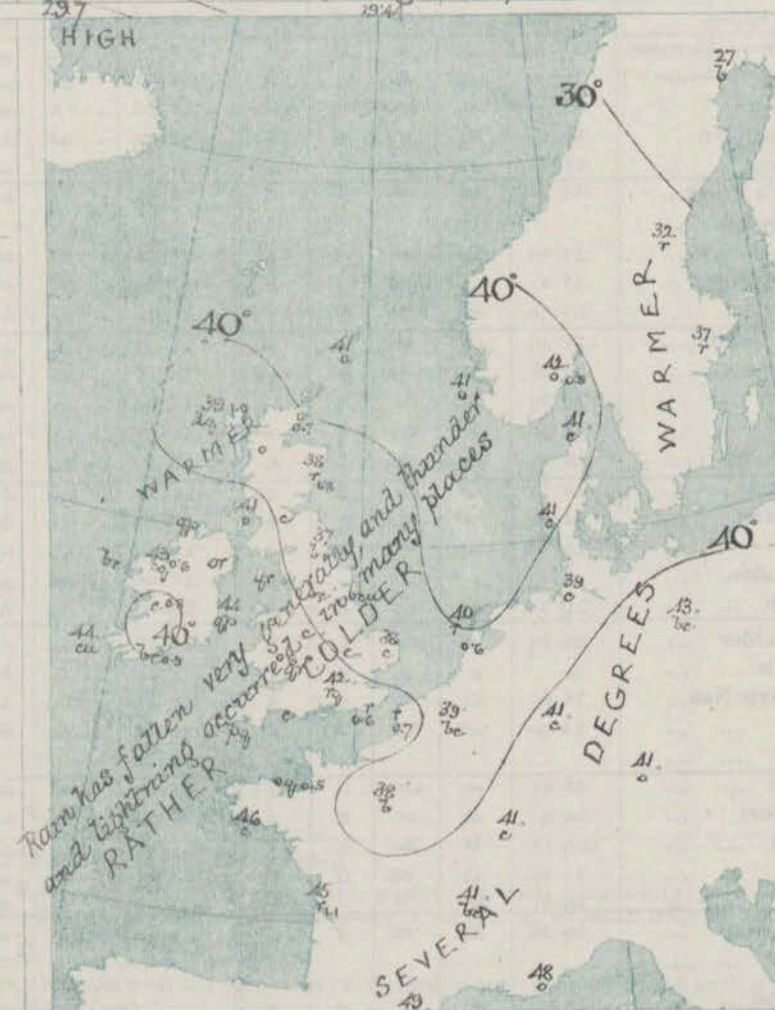
**Rainfall** A dotted line separates the districts in which rain has fallen from those where there has been none. Falls of 0.5 in. or more, are quoted in figures.

## MEANS OF TEMPERATURE IN SHADE, AND RAINFALL.

for the month of December

STATIONS	TEMPERATURE.				RAINFALL (Inches)
	Daily Max.	Daily Min.	AT 8 A.M.		
			Dry.	Wet.	
Sunburgh Head	42.0	34.5	39.0	37.6	4.33
Stornoway	41.8	33.5	38.9	37.8	5.06
Wick	42.0	32.1	37.8	36.4	3.18
Nairn	41.5	32.8	36.9	35.4	2.08
Aberdeen	41.8	32.9	36.9	35.3	3.34
Leith	44.3	33.0	38.4	37.0	2.01
Shields	42.8	34.3	39.2	36.9	2.74
York	42.5	31.9	36.2	35.4	2.45
Ardrossan	47.0	36.1	40.1	38.2	4.04
Donaghadee	46.7	36.1	40.1	39.1	2.84
Holyhead	46.8	39.6	42.9	41.3	3.84
Liverpool	43.6	35.7	39.1	37.4	2.70
Valencia	50.0	40.0	44.7	41.8	5.82
Roche's Point	47.7	39.3	42.9	41.4	4.74
Pembroke	47.1	43.4	43.7	42.6	4.06
Scilly	49.8	43.9	47.2	45.3	4.10
Hurst Castle	45.5	36.3	40.6	39.9	2.84
Dover	44.2	36.5	40.0	38.8	3.20
LONDON	44.5	39.9	38.1	37.1	2.14
Oxford	42.3	39.0	37.3	36.6	2.13
Cambridge	43.3	31.8	36.8	35.6	1.99
Yarmouth	42.2	33.8	37.9	37.2	2.95

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





# GENERAL SITUATION AT 8 A.M.

## PRESSURE

Highest, 30.0 ins., at Lisbon.  
Lowest, 28.1 ins. and less, in a depression over the North Sea.  
Readings below 29.6 ins. over the whole of our Islands, and below 28.5 ins. at all our N<sup>o</sup> and E<sup>o</sup> stations.

## TEMPERATURE

Highest, 54° at Lisbon, 49° at Perpignan, 48° at Nice and 45° at Jersey.  
Lowest, 24° at Haparanda, 32° at Harroway, and 37° at Stockholm, Kain and Shields.

## WIND

NW<sup>2</sup> on all our western coasts, W<sup>1</sup> in the Channel, SW<sup>1</sup> over France, the Netherlands, and Germany, and S or SE<sup>1</sup> in Scotland and Denmark.  
Violent gales are still blowing on our NW. coasts, and also over the Channel, France, Belgium, and Holland, but in the east of our Islands the wind has subsided.

## WEATHER

Squally and showery generally, with steady rain in the south-east of England.  
Rain fell generally yesterday, the largest amounts being 1.1 in. at Rochefort, 1.0 in. at Harroway, and 0.8 in. at Aberdeen and Parsonstown. Thunder and lightning occurred at night in many parts of our Islands, and France.

## SEA

Terribly high at Holyhead, and high on all but our east coast.

## PROBABLE CHANGES IN SYSTEM NOW PREVALENT

The serious depression which had its centre off the NW. of Ireland yesterday has since moved eastwards, and has at the same time grown somewhat less deep. The centre of the disturbance is now lying over the North Sea, and the barometer is rising again over the greater part of our Islands and France - rapidly in the NW.

The depression will probably continue to move eastwards, but its progress is not likely to be rapid, and, although some improvement in the weather may be expected within the ensuing 24 hours, the gales over our Islands are likely to subside very gradually.

## FORECASTS

for the 24 hours ending at NOON on 10<sup>th</sup> December 1886.

### DISTRICTS.

### FORECASTS.

* 0	SCOTLAND NORTH	N <sup>2</sup> winds, increasing to a gale; squally, some hail or sleet showers.
* 1	SCOTLAND EAST	Do Do Do
* 2	ENGLAND N.E.	W <sup>2</sup> winds, moderate, to NW <sup>2</sup> winds, strong, perhaps a gale; squally, some showers.
* 3	ENGLAND EAST	Do Do Do
* 4	MIDLAND COUNTIES	Do Do Do
* 5	ENGLAND SOUTH	W <sup>2</sup> to NW <sup>2</sup> gales and strong winds; squally, some showers.

### DISTRICTS.

### FORECASTS.

* 6	SCOTLAND WEST	NW <sup>2</sup> and N <sup>2</sup> gales, subsiding later; squally, some showers.
* 7	ENGLAND N.W.	Do Do Do
* 8	ENGLAND S.W.	NW <sup>2</sup> gales, subsiding gradually; squally, showery.
* 9	IRELAND NORTH	Same as N <sup>o</sup> 6
* 10	IRELAND SOUTH	Same as N <sup>o</sup> 8.

### WARNINGS

The north cone was hoisted last evening in districts 2, 6, 7, and 9, and this morning in districts 3 and part of 5. An asterisk in this list signifies those districts in which signals are now flying.



# YESTERDAY'S 2 P.M. REPORTS.

	Bar.	Dry.	Wet.	Wind.	Wen.	Sea.		Bar.	Dry.	Wet.	Wind.	Wen.	Sea.
Skudesnaes ...	28.61	39	35	N. 38. 8	0	5	Holyhead ...	27.87	40	39	SW 11	h. g. m.	8
Sumburgh Head ...	28.28	38	36	E. 7	0	6	Valencia ...	28.37	44	41	W. 11	o. g. m.	8
Stornoway ...	27.98	39	38	E. 10	h. g. q.	7	Scilly ...	28.65	45	41	W. 11	o. h. q.	8
Aberdeen ...	27.89	38	37	S. 1	6	6	Dungeness ...	28.68	46	43	W. 11	h.	5
Shields ...	27.97	42	39	SSW 4	0	4	London ...	28.49	46	40	W. 7	h. c. q.	*
Ardrossan ...	27.70	42	41	E. 5	0	5	Yarmouth ...	28.42	43	41	SW 5	h. c.	5
Malin Head ...	27.59	39	37	E. 3	0	3	Jersey ...	28.75	46	41	W. 10	0	7
Mullaghmore ...	27.63	40	40	NW 8	o. h. q.	7	Rochefort ...	29.26	56	55	W. 11	h. a.	4
Belmullet ...	27.81	44	42	NW 8	h. c.	*							

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

The reports for yesterday morning showed that pressure was highest 30.3 ins. and upwards over the south of Spain, but relatively high 29.9 ins. and upwards over the whole of the Mediterranean. The lowest readings were found in the centre of a very serious depression lying off the NW. of Ireland, and at Belmullet the mercury had fallen from 29.3 ins. on the previous evening to the extraordinarily low level of 27.58 ins. Violent gales from the SW. were experienced in the west and south of the British Isles and the greater part of France, S. gales in the East of England, and E. gales in Scotland, but over the remainder of Europe the wind was moderate or fresh in force from SW. or W. The weather was fine over Scotland and Eastern Europe, but squally and rainy in the north-west. Temperature had fallen over France, Germany, the Netherlands and Scandinavia, but risen elsewhere; and readings ranged from 50° and upwards over the Bay of Biscay, Portugal, and the southern shore of the Mediterranean to a little below the freezing point in Lapland. The highest individual readings were 58° at Malta and Corunna 57° at Palma and Lisbon, and 55° at Bilbao; the lowest were 10° at Hvosand, 25° at Hermanstad, and 26° at Archangel.

In the course of the day the deep depression in the NW. moved slowly eastwards, and as it did so the wind on our W. and S. coasts veered to W. or NW. Violent gales continued over the greater part of our Islands and France, and at night thunder and lightning were experienced in many places.

### EXPLANATION OF COLUMNS GIVEN ON PAGE 1.

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

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

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

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# DAILY WEATHER REPORT.

for Friday 10<sup>th</sup> December 1886.

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 Rain.
			Dir.	Force (0 to 12.)			Reading at 32° F. and Sea Level.	Difference from 8 a.m. yesterday.	Dry.	Wet.	Difference from 8 a.m. yesterday.	Dir.	Force (0 to 12.)				Max.	Min.	
SCANDINAVIA.	Haparanda ...	28.99	SE	6	S		28.95	-18	34	34	+7	SE	6	A	*	?	23	0.43	
	Hernösand ...	28.75	S	2	O		28.99	+08	86	36	+4	2	O	O	*	36	?	0.24	
	Stockholm ...	28.88	SE	2	bc		28.98	+19	40	38	+2	SE	4	O	*	?	34	0.16	
	Wisby ...	28.89	SSW	4	b		28.95		40	38		S	4	b	*	43	36	0.16	
	Bodö ...	28.91	NNE	4	O		28.86	-48	30	29	+7	ENE	4	b	2	?	?	-	
	Christiansund...	28.45	E	3	bc		28.61	+13	39	36	+3	ENE	2	bc	5	39	34	-	
	Skudesnaes ...	28.28	E	3	A		28.54	+26	41	38	0	E	1	O	4	?	41	-	
	Christiania Fjord (Fjord)	28.49	SSW	8	A		28.44	+04	43	42	+1	SSW	8	A	5	43	41	-	
	Skagen (The Scaw)	28.46	S	7	O		28.55	+09	42	40	+2	SW	7	c	4	?	37	0.32	
	Fanö ...	28.38	SW	7	A		28.75	+37	42	40	+2	WSW	4	c	*	43	39	0.16	
BRITISH ISLANDS.	Sumburgh Head	28.36	N	3	c		28.68	+32	39	38	-2	N	3	bc	3	42	35	0.05	
	Stornoway ...	28.68	N	5	cqhp		28.96	+28	38	37	-1	N	4	p	3	41	35	0.23	
	Wick ...	28.51	N	5	A		28.86	+35	37	36	-3	NW	3	O	1	42	35	0.12	
	Nairn ...	28.55	NW	3	O		28.86	+31	38	36	+2	WSW	2	O	1	41	34	0.03	
	Aberdeen...	28.46	NW	5	p		28.83	+37	38	36	0	NW	6	bcq	3	40	36	0.86	
	Leith ...	28.55	NW	3	c		28.95	+40	38	36	0	N	1	c	*	42	35	-	
	Shields ...	28.55	W	4	c		28.98	+43	35	33	-2	SW	3	b	3	41	33	-	
	Spurn Head ...	28.58	NW	8	b		29.04	+46	39	38	-1	NW	5	bc	4	43	37	-	
	York ...	28.64	W	4	c		29.08	+44	36	34	-2	NW	1	b	*	43	29	0.03	
	Loughborough	28.79	W	5	c		29.14	+45	37	36	-2	N	3	c	*	43	36	0.02	
GERMANY.	Ardrossan ...	28.62	NW	7	oq		29.02	+36	41	40	0	NW	7	bcq	5	45	40	0.01	
	Malin Head ...	28.73	NW	6	oqph		29.12	+39	41	39	0	NW	3	bcq	5	45	37	0.03	
	Mullaghmore ...	28.87	NW	8	oqph		29.24	+47	41	38	-2	NW	6	bcq	5	45	38	0.31	
	Belmullet ...	28.98	NW	8	c		29.29	+31	41	39	-2	NW	3	bc	*	44	38	0.10	
	Donaghadee ...	28.75	NW	6	bc		29.16	+41	38	36	-3	W	4	b	2	43	33	0.20	
	Barrow-in-Furness	28.69	W	9	bc		29.10	+41	42	40	0	NW	3	bcph	*	44	40	0.04	
	Liverpool (Bidston)	28.77	W	8	O		29.18	+49	39	38	-4	NW	6	ch	4	44	37	0.25	
	Holyhead ...	28.86	NW	7	cqph		29.22	+36	43	40	-3	NW	5	bcq	6	45	40	0.03	
	Parsonstown ...	29.02	W	2	c		29.35	+33	35	34	-4	W	1	c	*	43	31	-	
	Valencia ...	29.17	W	5	O		29.41	+24	41	40	-3	NW	1	bc	2	45	41	0.18	
FRANCE & NETHERLANDS.	Roche's Point...	29.15	W	4	bc		29.40	+25	39	37	-2	W	3	b	3	44	36	0.18	
	Pembroke ...																		
	Scilly ...	29.14	NW	9	oqph		29.42	+28	47	43	+3	NW	5	c	6	48	39	0.13	
	Prawle Point ...	29.11	NW	4	c		29.35	+24	39	37	-2	NW	4	bc	5	46	35	0.23	
	Jersey ...	29.12	NW	7	bcqph		29.36	+25	44	42	-1	NW	5	bcq	5	47	39	0.17	
	Hurst Castle ...	29.01	NW	6	bcq		29.25	+24	40	39	-5	NW	6	b	5	50	38	0.03	
	Dungeness ...	28.84	NW	6	c		29.16	+32	39	37	-5	NW	5	bc	4	45	38	0.06	
	London ...	28.90	W	5	bc		29.20	+30	34	34	-8	NW	3	c	*	48	34	0.07	
	Oxford ...	28.97	SW	4	b		29.22	+25	36	35	-5	W	2	b	*	44	34	0.13	
	Cambridge ...	28.85	SW	2	c		29.16	+28	37	36	-2	W	2	O	*	44	32	0.01	
PENINSULA.	Yarmouth ...	28.67	NW	6	bcq		29.07	+40	35	34	-5	W	4	bc	4	43	33	-	
	Cuxhaven ...	28.49	SW	8	A		28.46	+03	41	40	+2	SW	6	c	*	41	36	0.32	
	Berlin ...	28.97	SW	4	bc		29.21	+24	39	37	-4	SSW	2	O	*	45	37	-	
	Wiesbaden ...	*	*	*	*		29.34	+37	35	34	-6	SW	1	bc	*	45	34	0.08	
	Munich ...	29.20	W	3	O		29.40	+20	33	32	-8	SW	5	3	*	43	34	0.04	
	The Helder ...	28.63	W	8	c		29.05	+39	42	39	+2	NW	5	c	4	45	39	0.47	
	Brussels ...	*	*	*	*		29.23	+37	35	35	-4	SSW	3	O	*	41	33	0.32	
	Cape Gris Nez...																		
	Paris ...	29.10	SW	5	O		29.39	+29	38	34	0	NW	3	A	*	44	35	-	
	Brest ...	29.26	NW	5	O		29.43	+27	45	43		N	7	b	5	55	39	0.12	

For Explanation of Columns, see p. 4.



# WEATHER CHARTS

for 8 a.m. on

Friday, 10<sup>th</sup> December.

1880.

## 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. The 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.

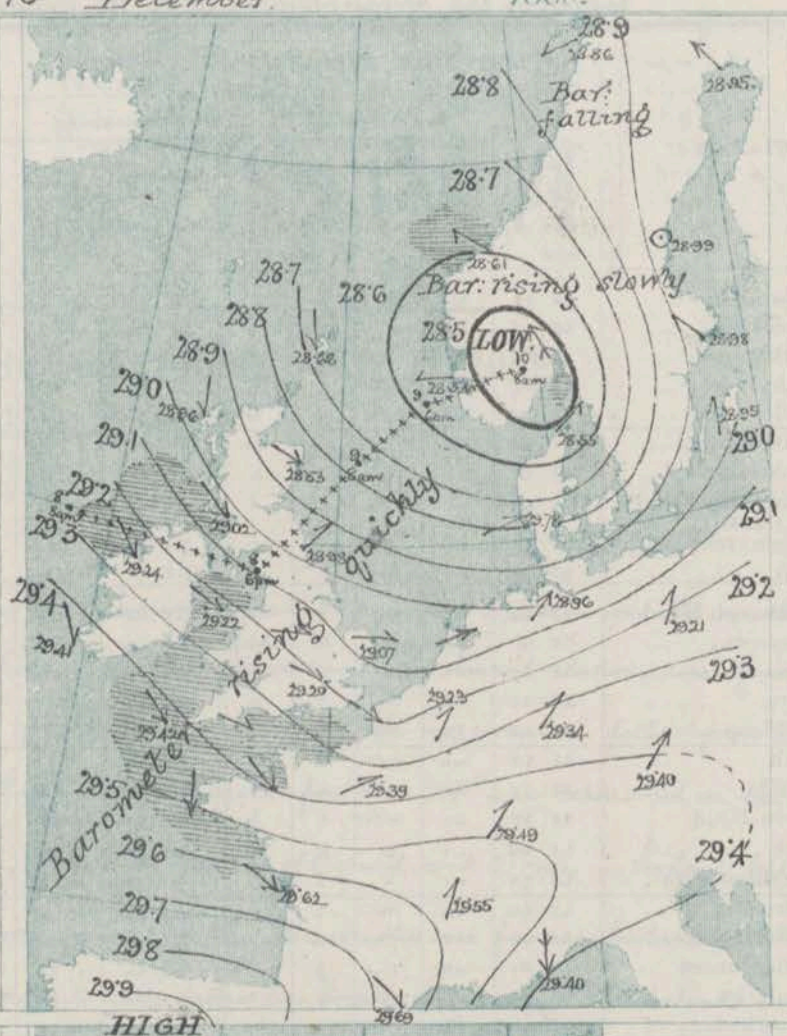
**Sea Disturbance** — where considerable is shown thus

— Rough. — High

## MEAN HEIGHT of the BAROMETER

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

STATIONS.	MEAN READINGS.
	in.
Sumburgh Head	29.680
Stornoway	29.701
Wick	29.713
Nairn	29.741
Aberdeen	29.750
Leith	29.800
Shields	29.836
York	29.877
Ardrossan	29.810
Donaghadee	29.832
Holyhead	29.858
Liverpool	29.882
Valencia	29.879
Roche's Point	29.889
Pembroke	29.897
Seilly	29.943
Hurst Castle	29.938
Dover	29.942
LONDON	29.934
Oxford	29.937
Cambridge	29.926
Yarmouth	29.902



## 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.

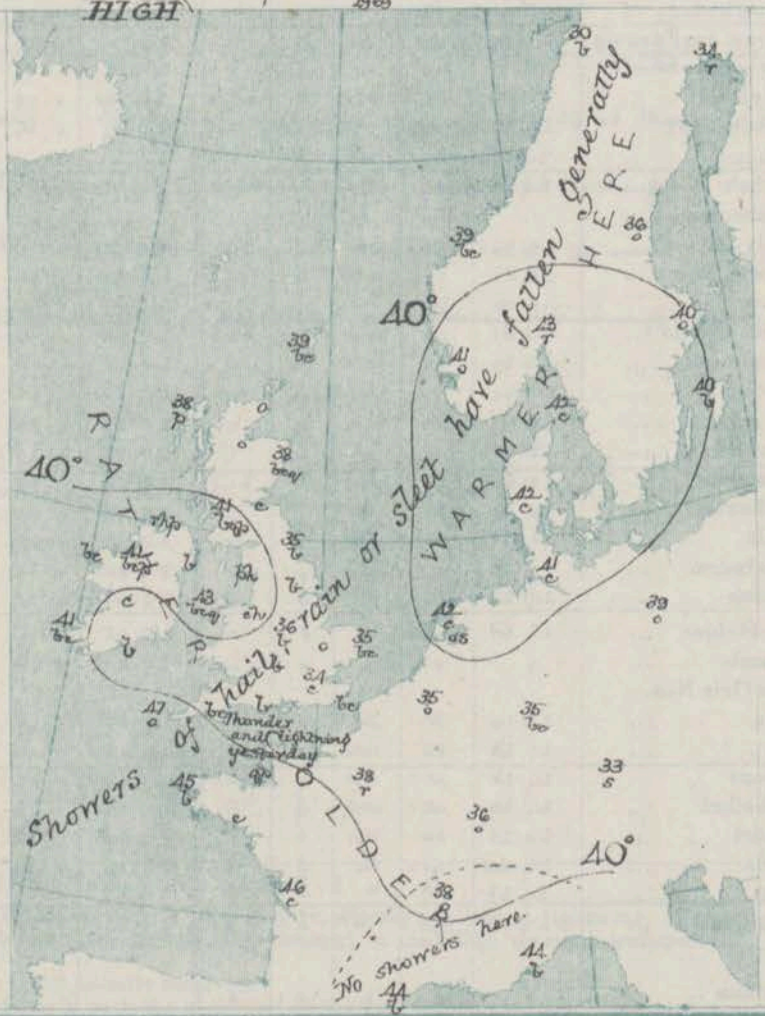
**Rainfall** — A dotted line separates the districts in which rain has fallen from those where there has been none. Falls of 0.5 in. or more are quoted in figures.

## MEANS OF TEMPERATURE IN SHADE. AND RAINFALL.

for the month of December.

STATIONS	TEMPERATURE.				RAINFALL. (Inches)
	Daily Max.	Daily Min.	A.T. & M. Dry.	A.T. & M. Wet.	
Sumburgh Head.	42.0	34.5	39.0	37.6	4.33
Stornoway.	41.8	33.5	38.9	37.8	5.69
Wick.	42.0	32.1	37.8	36.4	3.18
Nairn.	41.5	32.8	36.9	35.4	2.08
Aberdeen.	41.8	32.0	36.9	35.3	3.34
Leith.	44.3	33.6	38.4	37.0	2.01
Shields.	42.8	34.3	39.2	38.9	2.74
York.	42.5	31.9	36.2	35.4	2.45
Ardrossan.	47.0	36.1	40.1	38.3	1.04
Donaghadee.	46.7	36.1	40.1	39.1	2.84
Holyhead.	46.8	39.6	42.9	41.3	3.84
Liverpool.	43.6	35.7	39.1	37.4	2.70
Valencia.	50.0	40.0	44.7	41.8	5.82
Roche's Point.	47.7	39.3	42.9	41.4	4.74
Pembroke.	47.1	40.4	43.7	42.6	4.06
Seilly.	49.8	43.9	47.2	45.3	4.10
Hurst Castle.	45.5	36.5	40.6	39.9	2.84
Dover.	44.2	36.5	40.0	38.8	3.20
LONDON.	44.5	33.9	38.1	37.1	2.14
Oxford.	48.3	33.6	37.3	36.6	2.13
Cambridge.	43.8	31.8	36.3	35.6	1.11
Yarmouth.	42.2	33.8	37.9	37.2	2.95

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, 300 ins and upwards in the neighbourhood of Lisbon.  
Lowest, 28.5 ins and less in the centre of a depression lying over the coast of Norway.

TEMPERATURE

Highest,  $52^{\circ}$  at Lisbon,  $47^{\circ}$  at Lillo and  $46^{\circ}$  at Rochefort.  
Lowest,  $30^{\circ}$  at Bodo,  $32^{\circ}$  at Munich and  $34^{\circ}$  at Haparanda and in London.

WIND

Moderate to strong from W or NW over our islands and Trance  
Fresh SW. over Denmark, the Netherlands and Germany.  
Moderate SE. in Sweden: Light E. in Norway.

WEATHER

Drill in Scandinavia, with rain at Haparanda and Lander.  
Fair or fine in most other localities, but showery on our extreme north-western coasts.  
In the course of the past 24 hours showers of rain, hail or sleet have fallen generally.

SEA

Rough at Holyhead and Scilly and rather rough on our western and south-western coasts generally.

### PROBABLE CHANGES IN SYSTEM NOW PREVALENT

The deep depression of the past two days has reached the south of Norway, and readings in its centre (28.5 ins and less) are now about an inch higher than they were on Wednesday evening. A steady rise of the barometer is therefore reported generally, but readings over Western Europe are still low.

There is at present no sign of the advance of any new depression and NW. winds, with improving weather are therefore probable over the whole of the United Kingdom

## FORECASTS

for the 24 hours ending at NOON on 11<sup>th</sup> December 1886.

DISTRICTS.		FORECASTS.	
0	{ SCOTLAND NORTH	NW <sup>ly</sup> and N <sup>ly</sup> winds, fresh, changeable, some cold showers.	
1	{ SCOTLAND EAST	----- D° ----- D° -----	
2	{ ENGLAND N E.	Same as N° 5.	
3	{ ENGLAND EAST	Same as N° 5.	
4	{ MIDLAND COUNTIES	Same as N° 5.	
5	{ ENGLAND SOUTH	W <sup>ly</sup> to NW <sup>ly</sup> winds, moderate or fresh, fair generally, but perhaps local showers.	

DISTRICTS.		FORECASTS.	
6	{ SCOTLAND WEST	NW <sup>ly</sup> winds, strong, squally, some cold showers.	
7	{ ENGLAND N. W.	----- D° ----- D° -----	
8	{ ENGLAND S. W.	----- D° ----- D° -----	
9	{ IRELAND NORTH	NW <sup>ly</sup> winds, moderate to strong, changeable, some showers.	
10	{ IRELAND SOUTH	NW <sup>ly</sup> winds, freshening, fair generally, but some showers.	
WARNINGS		The N cone has been lowered this morning on all coasts	



# YESTERDAY'S 2 P.M. REPORTS.

	Bar.	Dry.	Wet.	Wind.	Wea.	Sea.		Bar.	Dry.	Wet.	Wind.	Wea.	Sea.
Skudesnaes ...	28.17	44	40	ESE 6	o	5	Holyhead ...	28.75	44	39	W 9	ch q	9
Sumburgh Head ...	28.81	41	39	N 2	o	6	Valencia ...	29.14	44	42	NW 5	o q p h	5
Stornoway ...	28.53	40	39	N 5	d	4	Scilly ...	29.09	48	42	NW 8	o	7
Aberdeen ...	28.82	39	38	W 5	cp	5	Dungeness ...	28.65	45	42	W 6	e	5
Shields ...	28.88	41	38	W 6	e	3	London ...	28.70	45	41	W 6	o q	*
Ardrossan ...	28.51	44	40	W 9	o	6	Yarmouth ...	28.43	41	39	W 5	e q	4
Malin Head ...	28.62	41	40	NW 6	o	6	Jersey ...	28.95	46	42	W 6	e	6
Mullaghmore ...	28.63	42	39	W 8	ch q	7	Rocheport ...	29.28	48	43	W 9	o	4
Belmullet ...	28.92	44	40	N 9	ch p	*							

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

The reports for yesterday morning showed that the large and deep depression which arrived off our north-western coasts early on the 8<sup>th</sup>, had reached the North Sea, where it showed some tendency to grow shallower. The depression was so large that, while its centre lay off our north-eastern coasts, the system covered the whole of France, Germany, Austria, Western Russia, the Baltic and Finland. Severe W<sup>ly</sup> gales prevailed on the western and north-western coasts of our islands, strong W<sup>ly</sup> gales in the Channel and north of France, and SE<sup>ly</sup> gales in Norway, accompanied by squalls and showers of great severity, snow and hail in some parts and thunder and lightning in many. Temperature ranged from about 60° on some of the Mediterranean coasts to a little below the freezing point over Finland and Northern Russia. The highest individual readings were 62° at Alicante, 59° at Cagliari and Palma and 55° at Legna; the lowest 27° at Haparanda, 28° at Kuopio (Finland) and at Bodø, 30° at Mleaborg and 37° to 38° on the eastern coasts of Great Britain and at Paris.

During the day the depression moved slowly to the north-eastward and began to fill up decidedly; the gales in our islands lulled but showers of snow and sleet fell in many places.

FOR THE 24 HOURS ENDING AT 8 AM ON WEDNESDAY 8<sup>th</sup> DECEMBER 1886.

The Continental Reports for Tuesday morning showed that an anticyclone in which readings exceeded 30.3 ins was lying over the south of Spain, while a large area of low-pressure with readings below 28.7 ins was situated over the north of Scandinavia. Rather steep gradients for W<sup>ly</sup> winds, therefore, prevailed generally and fresh to strong breezes from that quarter or from SW were reported over the greater part of Europe. In Italy and the south of France, however, the wind drew into W or N. The weather was fair generally, but showers were falling locally and squalls were reported over France and the south of England. Temperature had risen in the east and south of France, but fallen elsewhere, and readings varied from 50° and above over the Bay of Biscay, Portugal and the southern shores of the Mediterranean to a little below the freezing point over Russia and the north of Sweden and Central Spain. The highest individual readings were 55° at Malta and 54° at La Coubre, Algiers and Brindisi; the lowest were 20° at Kuopio, 26° at Archangel, 27° at Haparanda and 28° at Madrid.

In the course of the day the barometer began to fall somewhat decidedly in the west of our islands, and the wind backed to the SW<sup>ly</sup>, with an unsettled appearance. Elsewhere no important change 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 Saturday 11<sup>th</sup> December 1886.

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 ..	29.22	33	SW	2	0	29.26	+ .31	33	33	- 1	S	2	0	*	36	30	0.08	
	Hernösand ...	29.03	37	S	6	0	29.16	+ .17	37	37	+ 1	SSW	4	0	*	39	34	0.12	
	Stockholm ...	29.13	40	S	2	0	29.28	+ .30	39	37	- 1	S	4	0	*	43	34	-	
	Wisby ...	29.12	40	SW	4	6	29.32	+ .37	39	38	- 1	WSW	4	6	*	43	37	-	
	Bodö ...	28.96	31	E.N.E.	4	0	29.04	+ .18	33	31	+ 3	E.N.E.	2	C	1	39	28	-	
	Christiansund...	28.84	32	E.	1	6	29.05	+ .44	38	36	- 1	WNW	6	n	5	?	28	0.32	
	Skudesnaes ...	28.88	40	Z.	0	0	29.13	+ .59	37	37	- 4	E.N.E.	1	C	3	41	?	-	
	Christiania Fjord (Færder)	28.86	43	S	4	0	29.11	+ .67	37	36	- 6	WNW	4	6	2	43	37	0.08	
	Skagen (The Scaw)	28.97	40	S	4	6C	29.18	+ .63	39	38	- 3	WSW	4	6C	2	?	37	0.04	
	Fanö ...	29.15	41	WSW	6	6	29.38	+ .60	41	40	- 1	W	4	C	*	43	39	0.20	
BRITISH ISLANDS.	Sumburgh Head	28.95	39	N	2	6	29.22	+ .54	39	37	0	WNW	3	C	3	41	34	0.45	
	Stornoway ...	29.20	36	WNW	3	6	29.10	+ .14	40	38	+ 2	ESE	5	og	4	41	29	0.25	
	Wick ...	29.11	38	N	2	0	29.17	+ .32	31	30	- 6	WNW	1	0	6	41	29	0.08	
	Nairn ...	29.13	37	SW	2	6	29.15	+ .29	33	32	- 5	Z.	0	0	1	45	29	0.01	
	Aberdeen...	29.10	38	WNW	4	6C	29.20	+ .37	32	31	- 6	Z.	0	m	1	40	30	-	
	Leith ...	29.20	39	WNW	1	6	29.16	+ .21	36	36	- 2	Z.	0	n	*	41	38	0.07	
	Shields ...	29.16	39	W	2	6	29.25	+ .27	37	36	+ 2	SSW	3	om	3	42	34	0.02	
	Spurn Head ...	29.31	39	W	3	6	29.34	+ .30	39	38	0	S	4	6C	4	42	34	-	
	York ...	29.28	38	WNW	2	6	29.31	+ .23	36	36	0	SSE	1	C	*	44	32	0.05	
	Loughborough	29.39	39	WSW	3	6	29.37	+ .23	39	39	+ 2	SSE	3	op	*	45	36	0.01	
GERMANY.	Ardrossan ...	29.25	42	W	4	C	29.11	+ .09	41	41	0	E	2	nm	3	45	36	0.04	
	Malin Head ...	29.25	40	WNW	3	6C	29.02	- .10	43	42	+ 2	SW	3	6	2	45	35	0.13	
	Mullaghmore	29.30	38	SSW	4	C	29.06	- .18	43	42	+ 2	SSW	4	6C	3	45	32	0.11	
	Belmullet ...	29.27	40	SE	3	6C	29.05	- .24	47	45	+ 6	WNW	5	6C	*	47	39	0.26	
	Donaghadee ...	29.32	35	W	2	6	29.12	- .04	43	43	+ 5	WSW	3	C	1	44	31	0.09	
	Barrow-in-Furness	29.31	41	WNW	5	6	29.19	+ .09	42	41	0	S	6	0	*	44	38	0.05	
	Liverpool (Bidston)	29.37	40	W	4	6C	29.25	+ .07	41	40	+ 2	SE	4	C	3	44	35	0.03	
	Holyhead ...	29.39	41	W	2	6	29.22	0.00	49	48	+ 6	SSW	4	ogm	3	50	41	0.14	
	Parsonstown ...	29.28	37	Z.	0	0	29.17	- .18	43	42	+ 8	SW	1	6C	*	45	34	?	
	Valencia ...	29.33	48	S	5	egw	29.19	- .22	49	49	+ 8	SW	6	omv	5	51	41	0.26	
FRANCE & NETHERLANDS.	Roche's Point...	29.39	47	W	3	C	29.27	- .13	49	48	+ 10	WSW	5	C	4	49	39	0.15	
	Pembroke ...																		
	Scilly ...	29.49	47	SSW	4	C	29.43	+ .01	53	52	+ 6	SSW	5	0	5	53	46	0.05	
	Prawle Point ...	29.54	46	WSW	4	6C	29.45	+ .10	51	51	+ 12	SW	5	m v	6	51	37	0.02	
	Jersey ...	29.57	45	W	3	6C	29.56	+ .20	50	49	+ 6	SW	5	ogm	4	50	43	0.04	
	Hurst Castle ...	29.51	44	W	4	6	29.43	+ .18	50	49	+ 10	WSW	6	C	3	50	39	0.06	
	Dungeness ...	29.43	40	WNW	3	6	29.55	+ .39	47	46	+ 8	SW	5	n	3	47	37	0.03	
	London ...	29.38	38	W	2	6f	29.46	+ .26	44	43	+ 10	S	3	0	*	45	33	0.03	
	Oxford ...	29.51	37	WSW	3	C	29.40	+ .18	42	41	+ 6	SSE	4	n	*	45	36	0.02	
	Cambridge ...	29.44	38	W	2	6	29.43	+ .27	39	39	+ 2	S	2	ch	*	45	32	-	
PENINSULA.	Yarmouth ...	29.35	38	W	3	6	29.48	+ .41	39	38	+ 4	SSW	3	6	3	41	33	-	
	Cuxhaven ...	29.19	36	WSW	5	n	29.51	+ .55	37	37	- 4	WSW	3	C	*	?	35	0.14	
	Berlin ...	29.43	36	SW	1	C	29.63	+ .42	35	34	- 4	SW	1	0	*	45	32	*	
	Wiesbaden ...	*	*	*	*	*	29.50	+ .46	31	32	- 3	Z.	0	6C	*	43	32	0.12	
	Munich ...	29.62	32	W	4	C	29.89	+ .49	34	33	+ 1	W	4	0	*	37	32	0.04	
	The Helder ...	29.33	43	W	5	C	29.54	+ .49	42	40	0	WSW	3	6C	3	45	36	-	
	Brussels ...	*	*	*	*	*	29.67	+ .42	37	36	+ 2	WSW	3	0	*	39	34	0.04	
	Cape Gris Nez...	29.49	44	WNW	7	6	29.57		42	38		WSW	7	0	5	45	41	-	
	Paris ...	29.62	40	SW	2	6C	29.76	+ .37	34	34	- 4	S	1	0	*	45	31	-	
	Brest ...	29.59	48	SW	4	0	29.56	+ .13	52	51	+ 7	WNW	5	f	5	?	45	-	
PENINSULA.	Lorient ...	29.65	45	S	1	6	29.65	+ .16	54	53	+ 7	W	5	0	5	?	39	0.16	
	Rochefort ...	29.75	45	WNW	4	6	29.84	+ .22	32	50	+ 6	W	5	C	2	50	41	0.20	
	Belfort ...	29.63	35	SW	3	0	29.89	+ .40	34	33	- 2	SSW	3	6	*	39	30	-	
	Lyons ...	29.76	40	S	4	0	29.97	+ .42	34	32	- 4	S	3	6	*	44	33	-	
	Nice ...	29.60	46	WNW	7	6C	29.56	+ .16	43	33	- 1	E.N.E.	4	6	3	50	36	-	
	Perpignan ...	29.83	48	Z.	0	0	29.99	+ .30	38	37	- 6	WNW	4	6C	*	53	36	-	
	Biarritz ...	29.78	52	SSW	3	0	29.96		55	53		S	3	0	5	?	46	-	
	Corunna ...	*	*	*	*	*													
	Lisbon ...	30.07	59	W	5	6	30.19	+ .12	59	59	+ 8	SW	7	n	5	59	?	0.71	

For Explanation of Columns, see p. 4.



# WEATHER CHARTS

for 8 a.m. on Saturday 11<sup>th</sup> December

1886.

## 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.

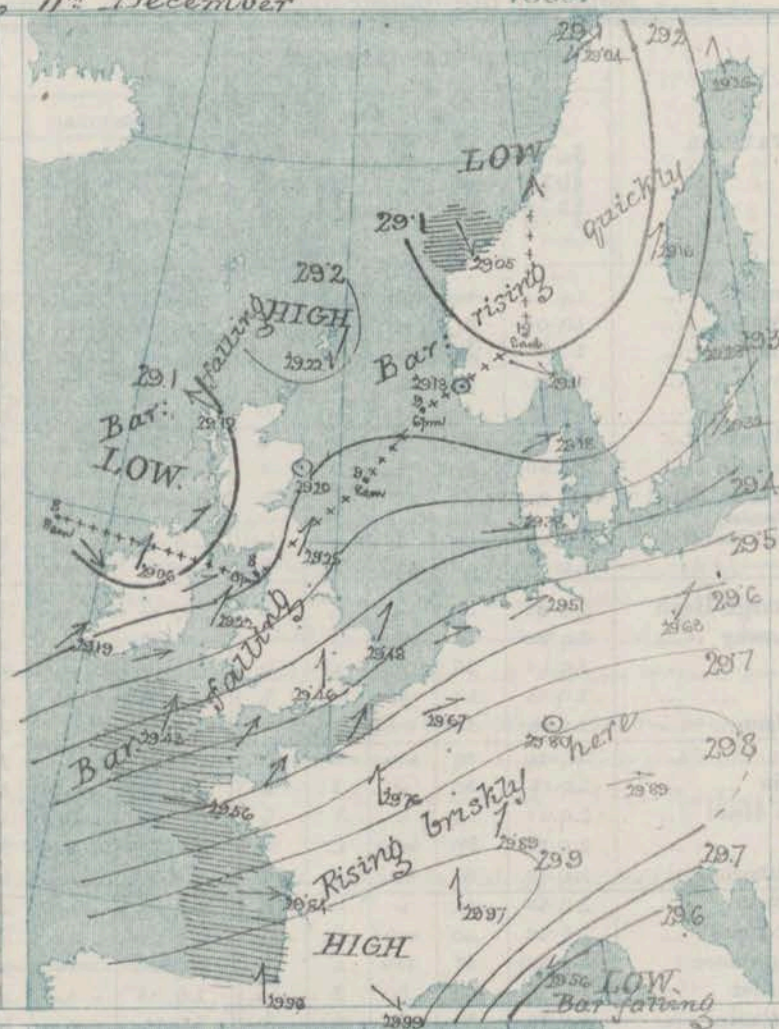
**Sea Disturbance** — where considerable is shown thus

— Rough. — High

## MEAN HEIGHT of the BAROMETER

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

STATIONS.	MEAN READINGS.
Sumburgh Head	29.680
Stornoway	29.701
Wick	29.713
Nairn	29.741
Aberdeen	29.750
Leith	29.800
Shields	29.836
York	29.877
Ardrossan	29.810
Donaghadee	29.832
Holyhead	29.858
Liverpool	29.882
Valencia	29.879
Roche's Point	29.889
Pembroke	29.897
Scilly	29.943
Hurst Castle	29.938
Dover	29.942
LONDON	29.934
Oxford	29.937
Cambridge	29.926
Yarmouth	29.902



## 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 December.

STATIONS	TEMPERATURE.				RAINFALL (Inches)
	Daily Max	Daily Min.	A.T. & M. Dry.	A.T. & M. Wet.	
Sumburgh Head	42.0	34.5	39.0	37.6	4.99
Stornoway	41.8	33.5	38.9	37.8	5.69
Wick	42.0	32.1	37.8	36.4	3.18
Nairn	41.5	32.8	36.9	35.4	2.08
Aberdeen	41.8	32.9	36.9	35.3	3.84
Leith	44.3	33.6	38.4	37.0	2.01
Shields	42.8	34.3	39.2	36.0	2.74
York	42.5	31.9	36.2	35.4	2.45
Ardrossan	47.0	36.1	40.1	38.3	1.04
Donaghadee	46.7	36.1	40.1	39.1	2.84
Holyhead	46.8	39.6	42.9	41.3	3.84
Liverpool	43.6	35.7	39.1	37.4	2.70
Valencia	50.0	40.0	44.7	41.8	5.82
Roche's Point	47.7	39.3	42.9	41.4	4.74
Pembroke	47.1	40.4	43.7	42.6	4.06
Scilly	49.8	43.9	47.2	45.3	4.10
Hurst Castle	45.5	36.5	40.6	39.9	2.84
Dover	44.2	36.5	40.0	38.8	3.20
LONDON	44.5	33.9	38.1	37.1	2.14
Oxford	43.3	33.6	37.3	36.6	2.13
Cambridge	43.3	31.8	36.3	35.6	1.04
Yarmouth	42.2	33.8	37.9	37.2	2.96

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 in. and upwards in Portugal.  
Lowest, 29.1 in. and less in large depressions lying respectively over Scandinavia and over extreme NW. coasts.

TEMPERATURE

Highest,  $59^{\circ}$  at Lisbon,  $55^{\circ}$  at Binnitz,  $54^{\circ}$  at Lorient, and  $53^{\circ}$  at Lally.  
Lowest,  $31^{\circ}$  at Wick,  $32^{\circ}$  at Aberdeen and Newcastle, and  $33^{\circ}$  at Bodo, Kaparanda and Navim.

WIND

Calms in the East of Scotland, W<sup>th</sup> on the Eastern shores of the North Sea and also over the west of France.

## WEATHER

{ Fair in Ireland and the southern part of Scandinavia and France.  
Cloudy, or overcast elsewhere, with rain in the south of Scotland and south-east of England.  
In the course of the past 24 hours rain has fallen generally.

SEA

Rough at Pawnee Point, and rather rough on our southwest coasts generally, as well as in the Bay of Biscay.

### PROBABLE CHANGES IN SYSTEM NOW PREVALENT

In the course of the past night a new, but apparently shallow, depression has advanced to six extreme NW. coasts, and the barometer is now falling over the greater part of the United Kingdom. At the Continental stations, however, the mercury continues to rise, the recent depression having almost entirely filled up over Norway.

The disturbance in the northwest will probably travel in a NE<sup>7</sup> or an ENE<sup>7</sup> direction, and occasion some rain in the force of the wind on our western and southern coast, with rain in most places.

## FORECASTS

for the 24 hours ending at NOON on 12<sup>TH</sup> December 1886.

DISTRICTS.		FORECASTS.		DISTRICTS.		FORECASTS.	
0	SCOTLAND NORTH	Variable winds, finally NW <sup>3</sup> ; unsettled, rain at times.		6	SCOTLAND WEST	Same as N <sup>o</sup> 0	
1	SCOTLAND EAST	D <sup>o</sup> ----- D <sup>o</sup> ----- D <sup>o</sup> -----		7	ENGLAND N. W.	Same as N <sup>o</sup> 2	
2	ENGLAND N. E.	S <sup>1</sup> to W <sup>2</sup> winds, freshening, unsettled, some rain.		8	ENGLAND S. W.	Same as N <sup>o</sup> 5.	
3	ENGLAND EAST	D <sup>o</sup> ----- D <sup>o</sup> ----- D <sup>o</sup> -----		9	IRELAND NORTH	W <sup>1</sup> to NW <sup>2</sup> winds, fresh or strong, changeable, some showers	
4	MIDLAND COUNTIES	D <sup>o</sup> ----- D <sup>o</sup> ----- D <sup>o</sup> -----		10	IRELAND SOUTH	D <sup>o</sup> ----- D <sup>o</sup> ----- D <sup>o</sup> -----	
5	ENGLAND SOUTH	SW <sup>2</sup> to W <sup>2</sup> winds, fresh or strong, changeable, some rain.		WARNINGS		NONE ISSUED.	



# YESTERDAY'S 2 P.M. REPORTS.

	Bar.	Dry.	Wet.	Wind.	Wea.	Sea.		Bar.	Dry.	Wet.	Wind.	Wea.	Sea.
Skudesnaes ...	28.72	39	37	NNE 2	c	4	Holyhead ...	29.33	43	40	WNW 4	b	5
Sumburgh Head ...	28.85	40	39	N 2	bc	3	Valencia ...	29.39	46	44	SW 4	e	4
Stornoway ...	29.40	39	38	WNW 4	oprs	4	Scilly ...	29.49	49	44	WSW 4	bc	6
Aberdeen ...	28.97	39	37	WNW 4	c	2	Dungeness ...	29.35	44	41	W 4	e	3
Shields ...	29.10	41	38	WSW 5	b	3	London ...	29.37	45	41	W 3	b	*
Ardrossan ...	29.15	41	40	WNW 5	b	4	Yarmouth ...	29.23	41	39	WNW 4	b	3
Malin Head ...	29.21	41	38	NW 3	bc	4	Jersey ...	29.51	48	42	WNW 4	bc	4
Mullaghmore ...	29.29	42	38	WNW 4	e	4	Rochefort ...	29.69	49	46	NW 5	bc	3
Belmullet ...	29.32	43	39	W 3	bc	*							

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

*The Continental Reports have not arrived.*

### EXPLANATION OF COLUMNS GIVEN ON PAGE 1.

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

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

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

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



# DAILY WEATHER REPORT.

for Sunday 12<sup>th</sup> December 1886.  
 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.		
		In.	°				In.	In.	°	°	°					°	°	In.	
SCANDINAVIA.	Haparanda ...	29.33	33	S	2	o	29.24	- .02	32	32	- 1	SE	2	s	*	34	30	0.12	
	Hernösand ...	29.21	36	Z	0	o	29.25	+ .09	30	29	- 7	Z	0	b	*	39	?	-	
	Stockholm ...	29.36	37	S	2	o	29.38	+ .10	37	35	- 2	SSW	2	o	*	43	32	-	
	Wisby ...	29.40	41	WSW	4	b	29.40	+ .08	39	36	0	SE	4	b	*	43	36	-	
	Bodö ...	29.31	31	ENE	2	o	29.32	+ .48	31	?	- 2	ESE	2	o	1	34	30	-	
	Christiansund...	29.17	36	SW	2	b	29.12	+ .07	32	30	- 6	SE	4	b	4	?	30	0.04	
	Skudesnaes ...	29.14	42	NNW	2	r	28.93	- .20	39	37	+ 2	ENE	1	r	3	43	37	-	
	Christiania Fjord (Fjorder)	29.26	34	NNW	2	b	29.03	- .08	40	40	+ 3	E	6	o	2	?	34	0.20	
	Skagen (The Scaw)	29.31	40	WSW	3	o	29.04	- .14	42	40	+ 3	SW	5	o	3	?	37	0.20	
	Fanö ...	29.26	41	S	6	r	28.55	- .43	41	41	0	S	6	r	*	43	39	0.12	
BRITISH ISLANDS.	Sumburgh Head	29.15	39	NE	3	o	29.08	- .14	37	35	- 2	N	2	b	3	40	35	-	
	Stornoway ...	28.99	41	SE	4	Op	29.12	+ .02	41	39	+ 1	E	5	Op	5	42	36	0.33	
	Wick ...	29.07	40	S	3	o	29.19	+ .02	39	35	+ 8	E	2	C	1	43	30	0.20	
	Nairn ...	29.02	32	Z	0	C	29.05	- .10	36	35	+ 3	Z	0	r	2	38	29	0.12	
	Aberdeen...	29.05	36	W	1	bcm	29.01	- .19	39	38	+ 7	N	4	p	4	42	32	0.14	
	Leith ...	29.07	39	W	1	m	29.06	- .10	37	37	+ 1	W	1	b	*	39	35	0.54	
	Shields ...	29.13	40	Z	0	m	28.96	- .29	38	37	+ 1	W	3	C	2	44	34	0.98	
	Spurn Head ...	29.22	44	SSW	4	o	28.99	- .35	44	43	+ 5	W	7	bcm	4	46	38	0.22	
	York ...	29.24	44	S	1	o	29.08	- .23	43	40	+ 7	W	4	b	*	46	35	0.43	
	Loughborough	29.25	47	SSW	2	o	29.17	- .20	43	40	+ 4	WSW	6	bq	*	49	39	0.22	
GERMANY.	Ardrossan ...	29.01	43	E	1	om	29.05	- .06	38	38	- 3	ENE	1	Op	1	47	36	-	
	Malin Head ...	28.93	41	S	3	o	29.01	- .01	40	40	- 3	SSW	3	em	2	44	40	0.37	
	Mullaghmore ...	28.95	43	SW	4	og	29.03	- .03	43	42	0	SW	5	cp	6	45	40	0.26	
	Belmullet ...	28.95	42	S	4	o	29.04	- .21	47	44	0	W	6	d	*	47	41	0.24	
	Donaghadee ...	29.03	44	SW	2	r	29.09	- .03	38	37	- 5	SW	3	b	1	48	36	0.23	
	Barrow-in-Furness	29.10	45	SE	3	o	29.10	- .09	45	43	+ 3	W	4	C	*	48	40	0.65	
	Liverpool (Bidston)	29.12	45	SSE	3	o	29.14	- .11	43	40	+ 2	WSW	6	b	4	50	41	0.44	
	Holyhead ...	29.04	47	SSW	3	rm	29.16	- .06	45	43	- 4	WSW	4	bq	4	50	42	0.61	
	Parsonstown ...	29.03	41	S	1	r	29.19	+ .02	41	40	- 2	SW	1.	cu	*	49	38	0.51	
	Valencia ...	29.09	45	WSW	4	Op	29.29	+ .10	48	47	- 1	WSW	6	C	5	51	44	0.89	
FRANCE & NETHERLANDS.	Roche's Point...	29.06	43	W	4	b	29.38	+ .11	40	39	- 9	W	4	bq	4	52	40	0.30	
	Pembroke ...	29.03	50	SSW	6	r	29.30	+ .01	46	46	- 5	SSW	8	cy	7	51	43	0.25	
	Scilly ...	29.23	32	SW	6	r	29.49	+ .06	48	46	- 5	W	8	cl	7	53	46	0.07	
	Prawle Point ...	29.29	50	SW	6	o	29.43	- .02	45	43	- 6	WSW	7	cpht	7	52	42	0.18	
	Jersey ...	29.39	51	SW	3	Org	29.53	- .03	50	48	0	WSW	6	cthr	5	52	47	0.32	
	Hurst Castle ...	29.32	52	SW	7	r	29.40	- .03	45	44	- 5	WNW	7	cp	4	52	43	0.28	
	Dungeness ...	29.41	50	WSW	5	C	29.29	- .26	46	44	- 1	WNW	6	b	4	50	45	0.16	
	London ...	29.33	50	WSW	2	Op	29.28	- .18	42	40	- 2	WSW	5	b	*	53	42	0.07	
	Oxford ...	29.21	49	SSE	4	o	29.29	- .11	42	40	0	SW	6	b	*	50	42	0.23	
	Cambridge ...	29.26	47	SSW	2	o	29.22	- .21	43	40	+ 4	SW	3	b	*	49	38	0.25	
PENINSULA.	Yarmouth ...	29.35	46	SW	2	C	29.13	- .25	42	40	+ 3	W	6	bq	4	47	38	0.25	
	Cuxhaven ...	29.54	38	SSW	4	o	29.01	- .53	43	43	+ 6	SW	6	b	*	42	?	0.26	
	Berlin ...	29.72	36	S	1	C	29.36	- .27	38	36	+ 3	SSE	1	r	*	41	34	-	
	Wiesbaden ...	*	*	*	*	*	29.40	- .40	49	45	+ 7	W	5	o	*	50	?	0.36	
	Munich ...	29.88	30	E	4	C	29.60	- .29	47	43	+ 13	SW	8	o	*	?	30	0.24	
	The Helder ...	29.36	45	SSW	5	r	29.05	- .49	46	42	+ 4	WSW	8	C	4	46	41	0.34	
	Brussels ...	*	*	*	*	*	29.36	- .31	46	42	+ 9	WSW	4	o	*	51	?	0.08	
	Cape Gris Nez...	*	*	*	*	*	29.60	- .46	48	45	+ 14	WSW	4	b	*	56	?	0.47	
	Brest ...	29.41	32	SW	5	r	29.62	+ .06	52	46	0	WNW	8	b	6	54	45	0.16	
	Lorient ...	29.52	35	WSW	4	r	29.70	+ .05	54	48	0	W	8	o	7	55	50	0.28	
PENINSULA.	Rockefort ...	29.81	57	WSW	8	o	29.88	+ .04	54	52	+ 2	W	8	o	4	59	46	0.38	
	Belfort ...	29.61	41	SW	1	o	29.69	- .20	50	46	+ 16	SW	5	r	*	?	31	0.24	
	Lyons ...	29.95	44	S	4	o	29.88	- .09	47	46	+ 13	S	5	o	*	?	41	0.08	
	Nice ...	30.02	44	E	3	b	29.95	+ .39	47	39	+ 4	ESE	1	b	2	54	34	-	
	Perpignan ...	30.02	49	SSW	1	C	30.04	+ .05	39	38	+ 1	SW	1	b	*	60	36	-	
	Biarritz ...	29.94	64	SW	5	o	29.98	+ .02	61	?	+ 6	SW	5	o	5	64	52	0.04	
	Corunna ...	*	*	*	*	*	30.22	+ .13	58	57	- 1	SW	4	C	5	61	52	-	
	Lisbon ...	30.28	59	SW	3	C	30.22	+ .13	58	57	- 1	SW	4	C	5	61	52	-	

For Explanation of Columns, see p. 4.



# WEATHER CHARTS

for 8 a.m. on

Sunday

12<sup>th</sup> December

1886.

## 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.

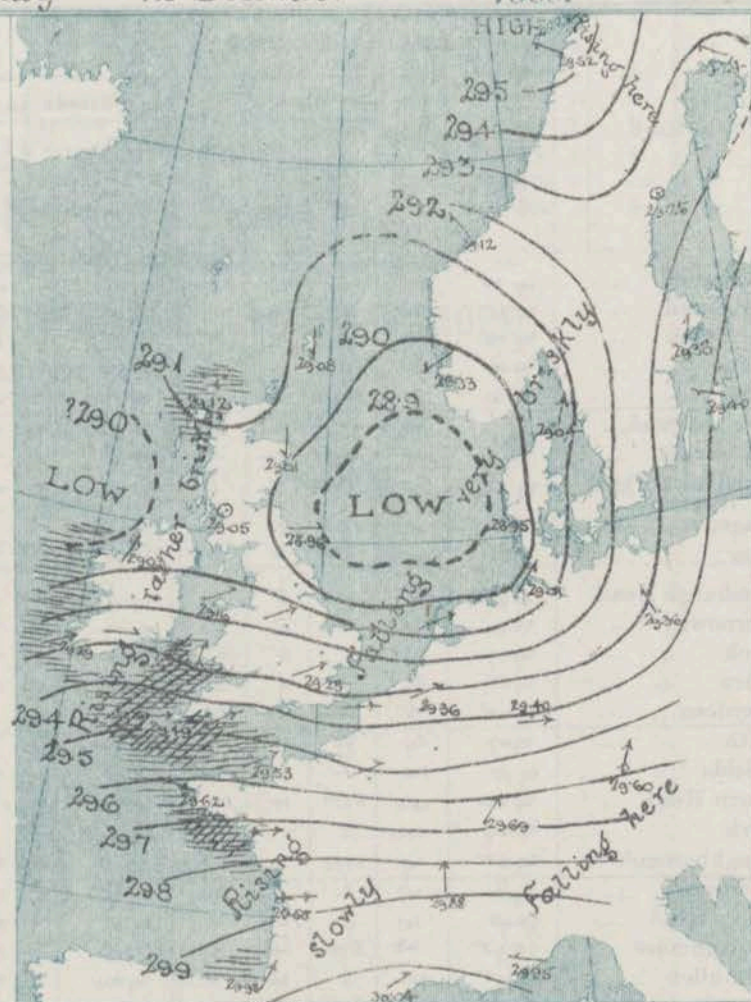
**Sea Disturbance** — where considerable is shown thus

■ = Rough. ■ = High.

## MEAN HEIGHT of the BAROMETER

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

STATIONS	MEAN READINGS
	in.
Sumburgh Head	29.680
Stornoway	29.701
Wick	29.713
Nairn	29.741
Aberdeen	29.750
Leith	29.800
Shields	29.836
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Hurst Castle	29.938
Dover	29.942
LONDON	29.934
Oxford	29.937
Cambridge	29.926
Yarmouth	29.902



## 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 December.

STATIONS	TEMPERATURE				RAINFALL (Inches)
	Daily Max.	Daily Min.	Average Dry.	Average Wet.	
Sumburgh Head	42.0	34.5	39.0	37.6	4.33
Stornoway	44.8	33.5	38.9	37.8	5.66
Wick	42.0	32.1	37.8	36.4	3.18
Nairn	41.5	32.8	36.9	35.4	2.08
Aberdeen	41.8	32.9	36.9	35.3	3.34
Leith	44.3	33.6	38.4	37.0	2.01
Shields	42.8	34.3	39.2	36.9	2.74
York	42.5	31.9	36.2	35.4	2.45
Ardrossan	47.0	36.1	40.1	38.3	4.04
Donaghadee	46.7	36.1	40.1	39.1	2.84
Holyhead	46.8	39.6	42.9	41.3	3.84
Liverpool	43.6	35.7	39.1	37.4	2.70
Valencia	50.0	40.0	44.7	41.8	5.82
Roche's Point	47.7	39.3	42.9	41.4	4.74
Pembroke	47.1	40.4	43.7	42.6	4.06
Scilly	49.8	43.9	47.2	45.3	4.10
Hurst Castle	45.5	36.5	40.6	39.9	2.84
Dover	44.2	36.5	40.0	38.8	3.20
LONDON	44.5	33.9	38.1	37.1	2.14
Oxford	43.3	33.6	37.3	36.6	2.13
Cambridge	43.3	31.8	36.3	35.6	1.99
Yarmouth	42.2	33.8	37.9	37.2	2.35

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





## GENERAL SITUATION AT 8 A.M.

PRESSURE	{ Highest, 30.3 ins. and upwards in the neighbourhood of Lisbon. Lowest, 29.0 " and less in two depressions lying respectively over the North Sea and over extreme NW. coasts.
TEMPERATURE	{ Highest, 61° at Biarritz, 58° at Lisbon, and 54° at Lorient and Rochefort. Lowest, 30° at Helsingfors, 31° at Rode, 32° at Haparanda and Christiansund and 36° at Nain.
WIND	{ W or SW over England, Ireland and France, strong to a gale in force over the Channel and Bay of Biscay. Strong SW in Germany, and the Netherlands, S in Denmark; E in Norway and the north of Scotland. A fresh to strong gale from SW or W. was experienced over the Channel last night.
WEATHER	{ Fine over the eastern and northern parts of England and Ireland. Cloudy elsewhere, with rain in many places and thunderstorms at some of our southern stations. In the course of the past 24 hours rain has fallen generally.
SEA	{ High on our southwest coasts, rough at Hullyghmore, and rather rough at Stromway, but slight in the East.

### PROBABLE CHANGES IN SYSTEM NOW PREVALENT

A depression is still lying off our extreme NW. coast, and in the course of the night another large disturbance has formed over the North Sea. Gradients over England, Ireland and France have thus become steep, but as the barometer is now rising in the west and south they are not likely to increase.

## FORECASTS

For the 24 hours ending at NOON on 13<sup>th</sup> DEC<sup>r</sup> 1886.

### DISTRICTS.

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

### FORECASTS.

NONE ISSUED.

### DISTRICTS.

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

WARNINGS

### FORECASTS.

NONE ISSUED.

NONE ISSUED.



# YESTERDAY'S 2 P.M. REPORTS.

	Bar.	Dry.	Wet.	Wind.	Wea.	Sea.		Bar.	Dry.	Wet.	Wind.	Wea.	Sea.		
Skudesnaes ...	29.19	47	41	SE	4	0	4	Holyhead ...	29.20	49	48	SSW	3	0	3
Sumburgh Head ...	29.19	46	38	NE	3	0	3	Valencia ...	29.13	45	45	W	2	rm	2
Stornoway ...	29.03	39	38	ESE	5	cp	5	Scilly ...	29.33	53	52	SSW	6	0	5
Aberdeen ...	29.11	39	38	ESE	3	rm	1	Dungeness ...	29.46	50	50	WEN	5	0	3
Shields ...	29.14	41	40	SW	1	cm	2	London ...	29.41	50	50	SW	1	og	*
Ardrossan ...	29.07	46	45	WEN	1	c	3	Yarmouth ...	29.36	45	44	SSW	3	c	4
Malin Head ...	29.00	41	41	SSW	3	bc	2	Jersey ...	29.49	51	50	SSW	3	0	3
Mullaghmore ...	29.03	43	42	SW	2	r	2	Rochefort ...							
Belmullet ...	28.99	45	43	SSE	4	0	*								

## GENERAL REMARKS ON THE WEATHER OVER EUROPE

DURING THE PAST 24 HOURS.

The reports for yesterday morning showed that pressure was then highest (29.9 ins. and upwards) over the western and southern parts of the Mediterranean, and lowest (below 29.0 ins.) over Scandinavia, while a large hollow extended southwards from the Baltic over the whole of Central, South-eastern and Eastern Europe. The winds reported were chiefly W and SW in France and the south of our Islands, and blew strongly in places, while they were variable over Central and Eastern Europe. The weather was very unsettled everywhere, cloudy generally, with rain (or snow) showers in many places. Temperature varied from a little above 50° over the Bay of Biscay, the mouth of the Channel, and the southern half of the Mediterranean to nearly as low as the freezing point at many of the inland Continental stations, but at only one of them (Hermanstadt) was the thermometer quite down to the freezing point at that time. The highest individual readings were 60° at Corunna, 58° at San Fernando, Oporto and Lisbon, 57° at Malta and 53° at Scilly, the lowest 32° at Hermanstadt, 33° at Warsaw, Rode, at Haparanda, and 34° at Moscow and Archangel, as well as at Brest and Nancy.

During the day a subsidiary disturbance was formed over England and travelled thence to the North Sea, causing fresh SW and W gales in France, the Bay of Biscay and English Channel, with rain and mild air, while in the north there were some signs of a new high pressure area forming.

### 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 13<sup>th</sup> December 1886.

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

STATIONS.	+ YESTERDAY EVENING.						8 A.M. TO DAY.										PAST 24 HOURS.		
	Barometer at 32° F. and Sea Level.	Temp. in Shade.	WIND.		Weather.	BAROMETER.		SHADE TEMP.			WIND.		Weather.	Sea (0 to 9.)	SHADE TEMP.		Amount of Rainfall.		
			Direc.	Force. (0 to 12.)		Reading at 32° F. and Sea Level.	Difference from 8 a.m. yesterday.	Dry.	Wet.	Difference from 8 a.m. yesterday.	Direc.	Force. (0 to 12.)			Max.	Min.			
SCANDINAVIA.	<i>Ina</i>	°				<i>Ina</i>	<i>Ina</i>	°	°	°					°	°	<i>Ina</i>		
Haparanda ..	29.39	33	Z	0	0	29.49	+ 1.25	33	33	+ 1	S	4	0	*	34	30	0.20		
Hernösand ...	29.28	37	S	6	n	29.37	+ 1.12	36	35	+ 6	S	2	n	*	39	28	0.32		
Stockholm ...	29.21	39	SE	4	0	29.18	- 1.20	36	35	- 1	E	4	n	*	43	34	0.08		
Wisby ...	29.22	39	S	4	n	29.01	- 3.9	40	39	+ 1	SSW	4	n	*	41	37	0.04		
Bodö ...	29.23	29	ENE	2	c	29.39	- 1.3	28	26	- 3	E	2	c	1	32	27	-		
Christiansund...	29.17	31	SE	1	bc	29.37	+ 1.25	35	32	+ 3	ENE	1	c	3	36	27	-		
Skudesnaes ...	28.99	38	n	4	0	29.14	+ 1.21	35	34	- 4	n	6	n	4	39	?	-		
Christiania Fjord (Fæder)	28.94	40	NE	6	0	29.05	+ 0.2	38	37	- 2	ENE	6	n	2	41	36	0.51		
Skagen (The Scaw)	28.83	42	S	2	c	28.99	- 0.5	41	40	- 1	NE	2	0	1	43	39	0.16		
Fanö ...	28.88	43	W	6	n	29.21	+ 2.6	41	38	0	WNW	6	c	*	43	39	0.51		
Sumburgh Head	29.21	36	n	5	0	29.63	+ 5.5	38	33	+ 1	n	5	c	5	39	36	0.16		
Stornoway ...	29.42	38	ENE	4	bc	29.79	+ 6.7	36	34	- 5	n	4	cy	5	42	34	0.20		
Wick ...	29.33	38	NE	3	c	29.75	+ 5.6	36	34	- 3	n	3	c	1	41	32	0.08		
Nairn ...	29.37	37	NE	2	bc	29.71	+ 6.6	37	36	+ 1	n	2	c	3	40	33	0.03		
Aberdeen...	29.28	37	WNW	3	b	29.66	+ 6.8	36	35	- 3	n	4	b	3	40	34	0.70		
Leith ...	29.33	38	W	1	b	29.71	+ 6.8	34	32	- 3	WNW	1	bm	*	40	32	-		
Shields ...	29.26	40	WNW	2	0	29.67	+ 7.1	34	32	- 4	WNW	2	bc	3	42	32	-		
Spurn Head ...	29.30	43	W	5	c	29.64	+ 6.5	39	38	- 5	W	3	b	4	45	37	0.31		
York ...	29.30	41	SW	1	n	29.69	+ 6.1	34	33	- 9	WNW	1	b	*	47	33	0.50		
Loughborough	29.38	44	WSW	4	c	29.69	+ 5.2	39	38	- 4	WSW	1	am	*	48	39	0.01		
ARDROSSAN.																			
Ardrossan ...	29.31	39	E	2	n	29.72	+ 6.7	32	31	- 6	NE	1	bf	0	39	30	-		
Main Head ...	29.26	42	S	1	0	29.68	+ 6.7	39	36	- 1	ENE	2	0	3	44	39	0.18		
Mullaghmore ...	29.29	46	W	6	bc	29.68	+ 6.5	38	37	- 5	ESE	4	b	3	48	37	0.25		
Belmullet ...	29.33	48	WNW	5	bc	29.66	+ 6.2	38	37	- 9	E	2	b	*	48	37	0.07		
Donaghadee ...	29.28	43	SW	4	c	29.70	+ 6.1	42	39	+ 4	NE	2	b	0	46	37	0.04		
BARROW-IN-FURNESS.																			
Barrow-in-Furness	29.29	44	N	3	0	29.68	+ 5.8	34	33	- 11	NE	2	b	*	46	38	0.49		
Liverpool (Bidston)	29.35	45	WSW	4	bc	29.70	+ 5.6	39	38	- 4	NE	1	0	2	46	39	0.24		
Holyhead ...	29.36	47	WSW	4	bc	29.68	+ 5.2	42	41	- 3	NE	3	bc	2	48	41	0.02		
Parsonstown ...	29.42	45	SW	2	c	29.66	+ 4.7	36	35	- 5	Z	0	bc	*	47	35	0.09		
Valencia ...	29.57	50	W	7	0	29.57	+ 2.8	45	44	- 3	E	1	c	2	50	44	0.19		
ROCHE'S POINT.																			
Roche's Point...	29.54	48	W	5	b	29.61	+ 2.3	43	41	+ 3	ENE	3	0	4	49	39	0.02		
Pembroke ...	29.49	49	W	7	c	29.66	+ 3.6	46	45	0	NE	1	og	3	50	44	0.06		
Scilly ...	29.67	52	W	9	0	29.64	+ 1.5	49	49	+ 1	SSW	5	op	6	52	47	0.05		
Prawle Point ...	29.65	47	W	7	bc	29.75	+ 3.2	48	45	+ 3	WSW	3	0	5	50	42	0.08		
Jersey ...	29.72	48	W	8	bc	29.81	+ 2.8	48	47	- 2	SW	4	ogm	4	51	42	0.35		
HURST CASTLE.																			
Hurst Castle ...	29.56	47	WNW	7	c	29.73	+ 3.3	48	45	+ 3	W	6	c	3	52	44	0.06		
Dungeness ...	29.48	47	W	5	c	29.68	+ 3.9	46	45	0	W	5	bc	3	50	44	-		
London ...	29.49	45	WSW	4	op	29.71	+ 4.3	44	43	+ 2	WSW	2	0	*	52	42	0.03		
Oxford ...	29.52	43	WSW	5	b	29.70	+ 4.1	43	42	+ 1	W	2	c	*	46	40	0.02		
Cambridge ...	29.46	42	SW	3	0	29.71	+ 4.9	40	40	- 3	n	1	0	*	48	38	-		
Yarmouth ...	29.32	44	W	5	bc	29.65	+ 5.2	38	37	- 4	W	3	bf	5	46	36	0.01		
Cuxhaven ...	28.92	39	SW	8	n	29.35	+ 3.4	42	40	- 1	WNW	5	b	*	43	39	0.92		
GERMANY.																			
Berlin ...	*	*	*	*	*									*			*		
Wiesbaden ...	*	*	*	*	*									*			*		
Munich ...	*	*	*	*	*									*			*		
FRANCE & NETHERLANDS.																			
The Helder ...	29.30	46	W	7	c	29.54	+ 4.9	43	40	- 3	WNW	1	0	3	46	41	0.08		
Brussels ...	*	*	*	*	*	29.69	+ 3.3	48	42	- 3	SW	5	n	*	47	41	0.21		
Cape Gris Nez...																			
Paris ...	29.76	44	SW	4	bc	29.91	+ 3.1	41	40	- 7	SSW	3	bc	*	52	40	0.04		
Brest ...	29.86	52	WNW	8	0	29.82	+ 2.0	49	47	- 3	S	4	n	5	52	45	0.04		
Lorient ...	29.91	52	WNW	8	bc	29.86	+ 1.6	52	49	- 2	SW	5	0	5	54	41	0.04		
Rochefort ...	30.06	52	WNW	8	bc	30.04	+ 1.6	49	48	- 5	S	3	0	2	55	45	-		
Belfort ...	29.85	47	SW	5	0	30.00	+ 3.1	42	41	- 8	SW	4	bc	*	51	38	-		
Lyons ...	30.01	47	W	3	b	30.17	+ 2.9	40	38	- 7	SW	1	c	*	56	39	0.04		
Nice ...	29.89	47	E	1	b	29.96	+ 6.1	50	40	+ 3	E	3	b	2	57	39	-		
PERPIGNAN.																			
Perpignan ...														*					
BIARRITZ.																			
Biarritz ...	30.20	56	W	5	n	30.07	+ 0.9	53	50	- 8	SE	3	0	5	61	50	0.08		
CORUNNA.																			
Corunna ...	*	*	*	*	*														
Lisbon ...	30.28	59	WSW	3	c	30.21	- 1.1	53	53	- 5	S	3	f	4	63	52	-		

For Explanation of Columns, see p. 4.



# WEATHER CHARTS

for 8 a.m. on

Monday, 13<sup>th</sup> December

1886.

## 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.

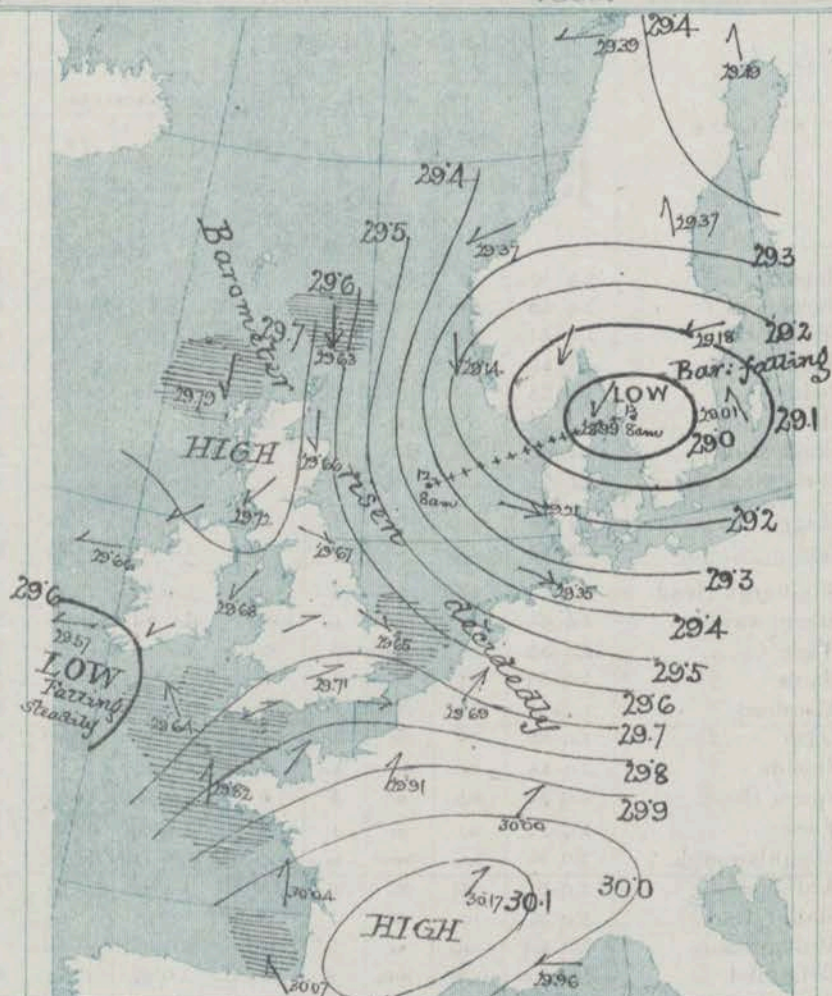
**Sea Disturbance** — where considerable is shown thus

▨ = Rough. ▨ = High.

## MEAN HEIGHT of the BAROMETER

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

STATIONS.	MEAN READINGS.
	in.
Sumburgh Head	29.680
Stornoway	29.701
Wick	29.713
Nairn	29.741
Aberdeen	29.750
Leith	29.800
Shields	29.836
York	29.877
Ardrossan	29.810
Donaghadee	29.832
Holyhead	29.858
Liverpool	29.882
Valencia	29.879
Roche's Point	29.889
Pembroke	29.897
Selly	29.943
Hurst Castle	29.938
Dover	29.942
LONDON	29.934
Oxford	29.937
Cambridge	29.926
Yarmouth	29.902



## 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 December.

STATIONS	TEMPERATURE				RAINFALL (Inches)
	Daily Max	Daily Min.	At 8 a.m.		
			Dry	Wet	
Sumburgh Head	42.0	34.5	39.0	37.6	4.33
Stornoway	44.8	38.5	38.9	37.8	5.06
Wick	42.0	32.1	37.8	36.4	3.18
Nairn	41.6	32.8	36.9	35.4	2.08
Aberdeen	41.8	32.9	36.9	35.3	3.34
Leith	44.3	33.6	38.4	37.0	2.01
Shields	42.8	34.3	39.2	36.9	2.74
York	42.5	31.9	36.2	35.4	2.45
Ardrossan	47.0	36.1	40.1	38.3	4.04
Donaghadee	46.7	36.1	40.1	39.1	2.81
Holyhead	46.8	39.6	42.9	41.3	3.84
Liverpool	43.6	35.7	39.1	37.4	2.70
Valencia	50.0	40.0	44.7	41.8	5.82
Roche's Point	47.7	39.3	42.9	41.4	4.74
Pembroke	47.1	40.4	43.7	42.0	4.06
Selly	49.8	43.9	47.2	45.3	4.10
Hurst Castle	45.5	36.5	40.6	39.9	2.84
Dover	44.2	36.5	40.0	38.8	3.20
LONDON	44.5	33.9	38.1	37.1	2.14
Oxford	43.3	35.6	37.3	36.6	2.13
Cambridge	40.3	31.8	36.3	35.6	1.99
Yarmouth	42.2	33.8	37.0	37.2	2.25

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 ins. and upwards, in a small anticyclone lying over the south of France.  
Lowest, 29.0 ins. and less, in a depression lying over the south of Sweden.  
A new depression is apparently advancing towards our south-west coast.

## TEMPERATURE

Highest, 53° at Biarritz, 52° at Dorient, 50° at Kici and 49° at Scilly.  
Lowest, 28° at Bodø, 32° at Ardrossan, and 33° at Haparanda.

Slight frost occurred last night at some of our northern stations.

## WIND

Moderate S. in the north of Sweden, moderate N. on our northern coast, and NW. in the east.  
Moderate S. over the Bay of Biscay and the mouth of the Channel, and E. in Ireland.

A fresh to strong gale from W. was experienced yesterday over the western part of the Channel.

## WEATHER

Fair over the greater part of our islands.

Dull elsewhere, with rain over the south of Scandinavia, and also at the mouth of the Channel.

A lunar rainbow was observed yesterday at Roker Point, thunder occurred at Mullaghmore, and lightning was seen at

## SEA

Rough at Scilly, and rather rough in the south-west generally, as well as off the north of Scotland.

## PROBABLE CHANGES IN SYSTEM NOW PREVALENT

The large depression which lay over the North Sea yesterday has since grown deeper and moved eastwards to the south of Sweden: in its rear the barometer has risen decidedly on all our north and east coasts.

During the night, however, a new fall has set in over the west of France and the extreme south-west of our islands, and a depression is therefore in all probability advancing from the SW. There is at present very little evidence with regard to the size or depth of the disturbance, but it will probably occasion rain over the greater part of Ireland and England with strong winds on our southern coast.

## FORECASTS

For the 24 hours ending at NOON on 14<sup>th</sup> Decr.

1886.

### DISTRICTS.

### FORECASTS.

0	SCOTLAND NORTH	N <sup>W</sup> to NE <sup>W</sup> winds, moderate; fair generally.
1	SCOTLAND EAST	-----D <sup>W</sup> -----D <sup>W</sup> -----D <sup>W</sup> -----
2	ENGLAND N.E.	Wind shifting to the E <sup>W</sup> and freshening; fine to cloudy and some rain.
3	ENGLAND EAST	-----D <sup>W</sup> -----D <sup>W</sup> -----D <sup>W</sup> -----
4	MIDLAND COUNTIES	Same as No 5.
5	ENGLAND SOUTH	Wind backing to SE and freshening; cloudy, unsettled, some rain.

### DISTRICTS.

### FORECASTS.

6	SCOTLAND WEST	NE <sup>W</sup> winds, light or moderate, fair generally.
7	ENGLAND N.W.	E <sup>W</sup> winds, freshening; fair to unsettled and some rain.
8	ENGLAND S.W.	S <sup>W</sup> and SE <sup>W</sup> winds, increasing in force, unsettled, some rain.
9	IRELAND NORTH	Same as No 7.
10	IRELAND SOUTH	E <sup>W</sup> and SE <sup>W</sup> winds, freshening; unsettled, some rain.

### WARNINGS

NONE ISSUED.



# YESTERDAY'S 2 P.M. REPORTS.

	Bar.	Dry.	Wet.	Wind.	Wes.	Sea.		Bar.	Dry.	Wet.	Wind.	Wes.	Sea.
Skudesnaes ...	28.93	58	37	NNE 2	h	3	Holyhead ...						
Sumburgh Head							Valencia ...						
Stornoway ...							Scilly ...						
Aberdeen ...							Dungeness ...						
Shields ...							London ...						*
Ardrossan ...							Yarmouth ...						
Malin Head ...							Jersey ...						
Mullaghmore ...							Rochefort ...	29.96	54	51	W 7	0	3
Belmullet ...						*							

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

The reports for yesterday morning showed that pressure was highest over south-western, southern and south-eastern Europe and the Mediterranean, lowest over the North Sea and off our north-western coasts; further to the northward pressure appeared to increase again. The gradients over Western Europe were rather steep. Thus, while strong W and SW winds (and in some places gales) were experienced in most places, the wind in the north of Scotland was Ely (SE to NE). The weather was very changeable, clear skies and sharp showers alternating in most regions, while severe thunderstorms were experienced at the mouth of the English Channel. Temperature was irregularly distributed; it ranged from about 60° over the southern parts of the Mediterranean and from about 50° over the Western and Central parts of France, to rather below the freezing point over Scandinavia and Austria and Poland. The highest individual readings reported were 61° at Algiers, 60° at Cagliari and Bilbao, 58° at Malta and 55° at Langunaine; the lowest 28° at Kiev, 29° at Vienna, Budapest and Hermsdorf and 30° at Warsaw.

During the day the small depression in the north-west began to fill up, and the gales in the south lulled. The other changes reported were unimportant.

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

FROM THE 5<sup>TH</sup> TO THE 11<sup>TH</sup> DECEMBER 1886.

The weather during this week has been exceedingly rough. The distribution of pressure throughout has been cyclonic, and the type mainly westerly and south-westerly. At the commencement a high-pressure area, in which readings exceeded 30.2 ins, lay over the Bay of Biscay, while a large low-pressure system lay off the west of Norway, the intervening gradient being rather steep. In the course of the next day or two, the gradient became still steeper, and, as the centre of the depression moved eastwards, the wind veered to NW, and blew hard on all the western and southern coasts as well as over France. On Tuesday the 7<sup>th</sup> matters had improved somewhat and the wind lulled, but during Tuesday night and Wednesday morning one of the deepest depressions ever experienced in North-western Europe, came over our western districts from the westward. In the north of Ireland the barometer fell to about 27.5 ins at 8 am on the 8<sup>th</sup>, and at the same time it was below 28.8 ins in all parts of the United Kingdom. The centre did not travel rapidly, at 6 pm it lay over Cumberland, where the barometer fell to 27.4 ins, and after this it moved slowly to the north-eastward and began to fill up. The gales (SW to NW) were very fierce on the English coasts, as also were the Ely gales in the north of Scotland. Rain fell generally, most in the north, temperature varied greatly and thunderstorms were observed in several localities. By Thursday night (9<sup>th</sup>) the centre reached Norway, the gales had lulled everywhere, and with a rapidly rising barometer, the weather was improving with a fall of temperature.

During Friday night a new (but shallow) depression appeared in the north-west, and the wind returned to SW generally, with rain. A subsidiary disturbance which appeared over England on Saturday caused a fresh Wly gale in the Channel at night and the distribution of pressure became very complex.

## 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 14<sup>th</sup> December 1886.  
Issued by the Meteorological Office, 116, Victoria Street, London, R. H. SCOTT, Secretary.

STATIONS.		+ YESTERDAY EVENING.					8 A.M. TO DAY.										PAST 24 HOURS.		
		Barometer at 32° F. and Sea Level.	Temp. in Shade.	WIND.		Weather.	BAROMETER.		SHADE TEMP.			WIND.		Sea. (0 to 9.)	SHADE TEMP.		Amount of Rainfall.		
				Dir.	Force. (0 to 12.)		Reading at 32° F. and Sea Level.	Difference from 8 a.m. yesterday.	Dry.	Wet.	Difference from 8 a.m. yesterday.	Dir.	Force. (0 to 12.)		Weather.	Max.		Min.	
SCANDINAVIA.	Haparanda ..	29.52	32	Z	0	0	29.51	+0.2	27	27	-6	Z	0	c	*	34	?	-	
	Hernösand ...	29.43	34	ESE	2	0	29.45	+0.8	32	30	-4	NE	2	0	*	39	?	0.04	
	Stockholm ...	29.10	37	ESE	4	h	29.16	-0.2	35	34	-1	NNE	4	h	*	41	?	0.51	
	Wisby ...	?	40	SSE	4	h	29.17	+1.6	38	37	-2	N	4	0	*	43	37	0.28	
	Bodö ...	29.48	28	ESE	2	c	29.56	+1.7	31	29	+3	NNE	2	b	1	?	27	0.24	
	Christiansund...	29.53	41	NE	4	0	29.58	+2.1	34	33	-1	E	1	b	4	41	32	0.24	
	Skudesnaes ...	29.38	38	N	6	c	29.48	+3.4	36	34	+1	N	1	0	3	?	?	-	
	Christiania Fjord (Fjorder)	29.27	36	NNE	6	0	29.45	+4.0	37	35	-1	NNE	6	0	1	39	36	0.08	
	Skagen (The Scaw)	29.23	41	E	3	0	29.40	+4.1	37	34	-4	NNE	3	0	2	41	37	0.08	
	Fanö ...	29.32	39	W	4	b	29.45	+2.4	34	34	-7	NNE	2	b	*	43	34	0.08	
BRITISH ISLANDS.	Sumburgh Head	29.72	36	N	4	c	29.65	+0.2	33	32	-5	N	3	b	3	38	31	-	
	Stornoway ...	29.81	39	ESE	4	bc	29.71	-0.8	37	35	+1	ESE	5	oq	4	41	33	0.02	
	Wick ...	29.77	38	NE	3	0	29.67	-0.8	35	34	-1	NE	3	c	1	40	32	0.02	
	Nairn ...	29.76	38	N	2	c	29.65	-0.6	36	35	-1	N	2	c	3	40	33	-	
	Aberdeen...	29.72	37	N	4	0	29.65	-0.1	34	33	-2	NNE	3	csp	3	39	32	0.01	
	Leith ...	29.72	38	N	1	b	29.64	-0.7	37	34	+3	NNE	2	bc	*	44	33	-	
	Shields ...	29.67	38	N	2	b	29.59	-0.8	41	38	+7	ESE	3	c	4	41	32	0.01	
	Spurn Head ...	29.63	40	NNE	3	bc	29.56	-0.8	42	39	+3	ESE	4	bc	5	42	37	-	
	York ...	29.68	34	N	1	b	29.59	-1.0	32	31	-2	NNE	1	f	*	39	29	-	
	Loughborough	29.63	35	NE	2	0	29.55	-1.4	36	35	-3	E	2	oq	*	40	32	-	
GERMANY.	Ardrossan ...	29.71	33	ESE	1	b	29.58	-1.4	32	31	0	NE	4	bcf	2	39	29	-	
	Malin Head ...	29.65	41	E	6	b	29.48	-2.0	38	37	-1	ESE	7	om	6	44	36	-	
	Mullaghmore ...	29.61	39	E	4	b	29.36	-3.2	40	38	+2	E	7	c	6	40	35	-	
	Behnullet ...	29.58	38	E	5	0	29.27	-3.9	39	38	+1	E	10	h	*	40	35	0.02	
	Donaghadee ...	29.68	41	E	6	b	29.49	-2.1	40	38	-2	E	8	b	6	43	37	-	
	Barrow-in-Furness	29.65	37	NE	3	b	29.51	-1.7	35	34	+1	NE	2	0	*	39	33	-	
	Liverpool (Bidston)	29.62	38	ESE	4	f	29.48	-2.2	38	35	-1	E	5	0	3	40	35	-	
	Holyhead ...	29.58	40	ESE	5	omq	29.37	-3.1	39	38	-3	ESE	7	ngm	6	43	39	-	
	Parsonstown ...	29.53	40	SE	2	0	29.22	-4.4	35	34	-1	E	2	hsp	*	41	34	0.40	
	Valencia ...	29.46	46	ESE	3	omq	29.12	-4.5	45	44	0	NNE	3	op	3	48	45	0.57	
FRANCE & NETHERLANDS.	Roche's Point...	29.46	45	ESE	4	n	29.15	-4.6	45	45	+2	NNE	4	p	4	47	40	0.80	
	Pembroke ...	29.29	49	NE	2	0	29.35	-2.9	48	46	-1	NNE	7	oq	6	52	45	0.89	
	Scilly ...	29.30	47	NNE	5	h	29.37	-3.8	50	50	+2	SW	5	p	6	50	42	1.04	
	Prawle Point ...	29.38	51	NNE	6	omq	29.49	-3.2	50	49	+2	SSW	5	ongm	4	52	45	0.39	
	Jersey ...	29.45	44	E	6	h	29.46	-2.7	44	44	-4	ESE	5	ng	4	48	42	0.52	
	Hurst Castle ...	29.56	45	S	3	h	29.48	-2.0	44	43	-2	E	4	0	4	48	42	0.54	
	Dungeness ...	29.55	41	E	3	h	29.52	-1.9	42	40	-2	ESE	2	om	*	47	40	0.07	
	London ...	29.56	38	NE	4	h	29.51	-1.9	38	37	-5	NE	2	od	*	44	38	0.10	
	Oxford ...	29.60	38	NNE	1	0	29.55	-1.6	37	36	-3	NE	1	0	*	41	35	-	
	Cambridge ...	29.62	39	NW	1	em	29.58	-0.7	41	39	+3	ESE	4	b	4	42	36	-	
PENIN. ISLANDS.	Cuxhaven ...	29.47	38	W	3	bc	29.46	+1.1	38	38	-4	W	3	h	*	42	37	-	
	Berlin ...	29.61	38	SW	1	b	29.56	+0.9	36	35	-5	SW	1	c	*	45	34	*	
	Wiesbaden ...	*	*	*	*	*	29.60	-1.3	48	47	+4	SW	3	h	*	50	41	0.47	
	Munich ...	29.88	40	W	4	0	29.77	-1.1	48	43	+9	SW	7	0	*	48	36	0.04	
	The Helder ...	29.61	43	NW	3	c	29.60	+1.6	41	39	-2	N	1	bc	1	45	41	-	
	Brussels ...	*	*	*	*	*	29.58	-1.1	40	40	-3	ESE	3	h	*	47	39	0.55	
	Cape Gris Nez...	29.63	46	SSW	4	h	29.67	-2.4	48	45	+7	SSW	4	0	*	?	?	0.20	
	Brest ...	29.45	51	NNE	8	f	29.49	-3.3	52	51	+3	W	8	0	8	55	46	0.28	
	Lorient ...	29.61	34	NNE	9	0	29.59	-2.7	53	50	+1	NNE	7	0	7	55	50	0.28	
	Rocheport ...	29.84	57	SW	8	0	29.80	-2.4	55	54	+6	SW	8	0	3	59	45	0.32	
PENIN. ISLANDS.	Belfort ...	29.87	40	SW	3	0	29.78	-2.2	50	47	+8	SW	3	c	*	52	?	-	
	Lyons ...	29.97	45	S	4	0	29.95	-2.2	46	43	+6	S	4	h	*	52	?	-	
	Nice ...	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	
PENIN. ISLANDS.	Perpignan ...	30.03	46	Z	0	bc	30.00	-2.0	46	45	+6	NNE	3	0	*	57	39	-	
	Biarritz ...	?	61	SW	5	0	29.87	-2.0	59	52	+6	SW	5	bc	5	64	48	-	
	Corunna ...	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	
PENIN. ISLANDS.	Lisbon ...	30.12	58	S	5	c	30.04	-1.7	59	59	+6	SW	7	c	5	61	?	0.04	

For Explanation of Columns, see p. 4.



# WEATHER CHARTS

for 8 a.m. on Tuesday, 14<sup>th</sup> December, 1880.

## 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. The 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.

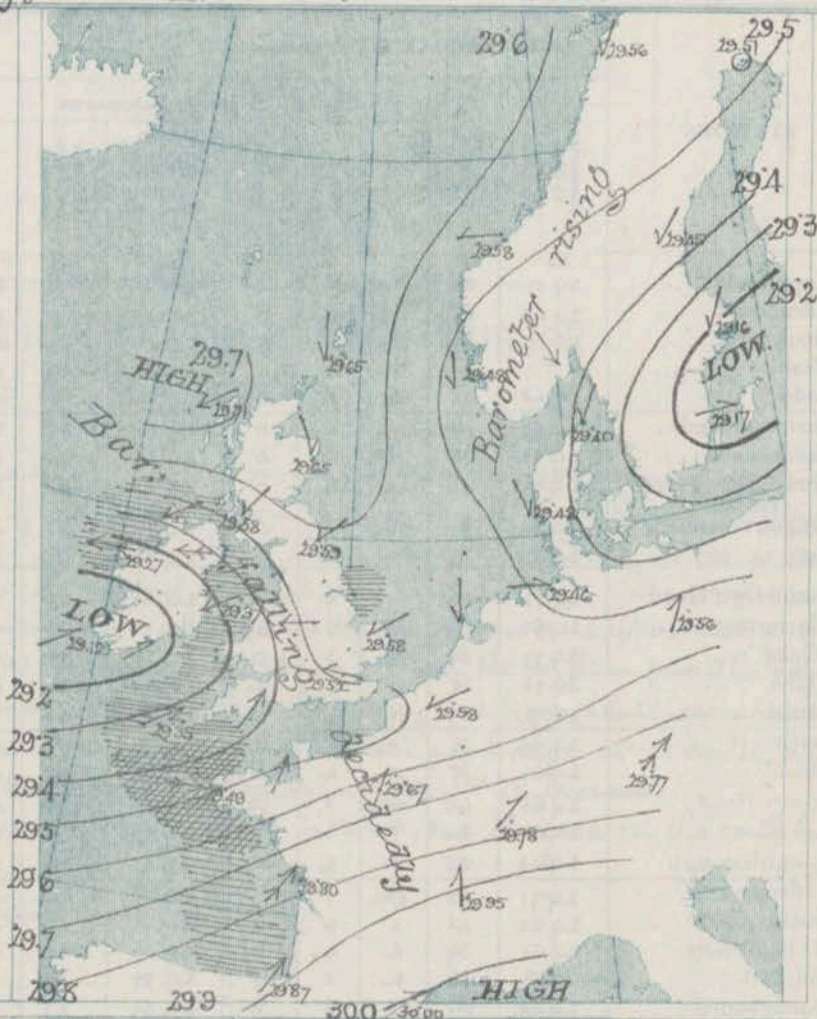
**Sea Disturbance** — where considerable is shown thus

— = Rough. — = High.

## MEAN HEIGHT of the BAROMETER

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

STATIONS.	MEAN READINGS.
	in.
Sumburgh Head	29.680
Stornoway	29.701
Wick	29.713
Nairn	29.741
Aberdeen	29.750
Leith	29.800
Shields	29.836
York	29.877
Ardrossan	29.810
Donaghadee	29.832
Holyhead	29.858
Liverpool	29.882
Valencia	29.879
Roche's Point	29.889
Pembroke	29.897
Scilly	29.943
Hurst Castle	29.938
Dover	29.942
LONDON	29.934
Oxford	29.937
Cambridge	29.926
Yarmouth	29.902



## 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.

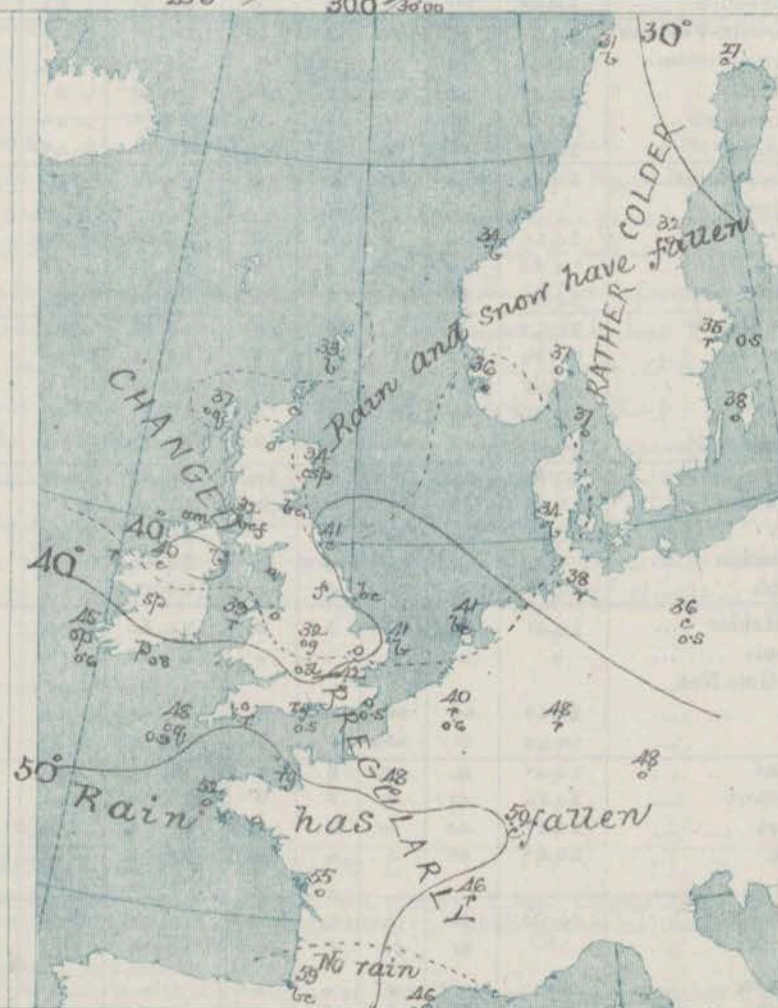
**Rainfall** — A dotted line separates the districts in which rain has fallen from those where there has been none. Falls of 0.5 in. or more, are quoted in figures.

## MEANS OF TEMPERATURE IN SHADE. AND RAINFALL.

for the month of December.

STATIONS	TEMPERATURE.				RAINFALL (Inches)
	Daily Max.	Daily Min.	At 8 a.m.	At 8 p.m.	
Sumburgh Head	42.0	34.5	39.0	37.6	4.33
Stornoway	44.8	33.5	38.9	37.8	5.66
Wick	42.0	32.1	37.8	36.4	3.18
Nairn	41.5	32.8	36.9	35.4	2.08
Aberdeen	41.8	32.9	36.9	35.3	3.34
Leith	44.3	33.6	38.4	37.0	2.01
Shields	42.8	34.3	39.2	36.9	2.74
York	42.5	31.9	36.2	35.4	2.45
Ardrossan	47.0	36.1	40.1	38.3	4.04
Donaghadee	46.7	36.1	40.1	39.1	2.84
Holyhead	46.8	39.6	42.9	41.3	3.84
Liverpool	43.6	35.7	39.1	37.4	2.70
Valencia	50.0	40.0	44.7	41.8	5.82
Roche's Point	47.7	39.3	42.9	41.4	4.74
Pembroke	47.1	40.4	43.7	42.6	4.06
Scilly	49.8	43.9	47.2	45.3	4.10
Hurst Castle	45.5	36.5	40.6	39.9	2.84
Dover	44.2	36.5	40.0	38.8	3.20
LONDON	44.5	33.9	38.1	37.1	2.14
Oxford	43.3	33.6	37.3	36.6	2.13
Cambridge	43.3	31.8	36.3	35.6	1.06
Yarmouth	42.2	33.8	37.9	37.2	2.95

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, but relatively high 29.7 in. and upwards in the neighbourhood of the Hebrides. Lowest, 29.2 in. and less, in two depressions, lying respectively over the Baltic and the south of Ireland. In the course of the night a shallow disturbance has advanced along the Channel to the Straits of Dover.
TEMPERATURE	Highest, 53° at Biarritz and Lisbon, 55° at Rochefort, and 50° at Dunkerque and Jersey. Lowest, 27° at Haparanda, 31° at Rodez, and 32° at York and Aldersham. Frost occurred last night over the northern part of the Kingdom.
WIND	SW. or W. over France, Germany and the south-west of our Islands, strong to a gale in the Bay of Biscay. Moderate N. over Scotland, and the eastern shore of the North Sea. E. over the northern and eastern parts of Ireland and England, with a gale in the north of Ireland.
WEATHER	Fair in the south of Scotland and east of England. Cloudy elsewhere, with rain in many places. Heavy rain fell yesterday in the SW., the largest amount being 1.0 in. at Hawick, 0.9 in. at Leeds, and 0.8 in. at Rochdale.
SEA	Very high off the north-west of France, rough on our W. and SW. coasts generally, and rather rough at Spurn Head.

## PROBABLE CHANGES IN SYSTEM NOW PREVALENT

The depression which was approaching our south-west coast yesterday morning proves to have been of a complex nature. The main portion of the system is now lying over the south of Ireland, but a second minimum has advanced along the Channel to the Straits of Dover, and the barometer is falling in most places.

The depression over Ireland is likely to occasion an increase in the gradients over our northern and eastern coasts but with the present irregular distribution of pressure it is very difficult to tell in which direction the system will ultimately move.

## FORECASTS

For the 24 hours ending at NOON on 15<sup>th</sup> December 1886.

DISTRICTS.	FORECASTS.	DISTRICTS.	FORECASTS.
* 0 { SCOTLAND NORTH	NE <sup>2</sup> to E <sup>2</sup> winds, increasing in force; dull, some cold rain or sleet.	* 6 { SCOTLAND WEST	E <sup>2</sup> winds, strong, a gale in places; squally; some cold rain or sleet.
* 1 { SCOTLAND EAST	----- D <sup>o</sup> ----- D <sup>o</sup> ----- D <sup>o</sup> -----	* 7 { ENGLAND N. W.	----- D <sup>o</sup> ----- D <sup>o</sup> ----- D <sup>o</sup> -----
* 2 { ENGLAND N. E.	----- D <sup>o</sup> ----- D <sup>o</sup> ----- D <sup>o</sup> -----	8 { ENGLAND S. W.	SW <sup>2</sup> winds, strong; cloudy, some rain.
* 3 { ENGLAND EAST	Same as N <sup>o</sup> 5	9 { IRELAND NORTH	E <sup>2</sup> gales and strong winds; squally, some rain.
* 4 { MIDLAND COUNTIES	Same as N <sup>o</sup> 5	* 10 { IRELAND SOUTH	SW and S winds, moderate or fresh; unsettled; showery.
* 5 { ENGLAND SOUTH	E <sup>2</sup> winds, strong, a gale on coast; cloudy; unsettled, some rain.	WARNINGS	The N. cone has been lowered this morning in part of district 8, but hoisted in districts 0 to 3, 6, 7 and 8. An asterisk is inserted against those districts in which the signals are non-flying.



# YESTERDAY'S 2 P.M. REPORTS.

	Bar.	Dry.	Wet.	Wind.	Wea.	Sea.		Bar.	Dry.	Wet.	Wind.	Wea.	Sea.
Skudesnaes ...	29.27	38	35	N 4	0	4	Holyhead ...	29.62	42	40	ESE 4	2 m	2
Sumburgh Head	29.71	37	34	N 4	0	4	Valencia ...	29.47	47	46	NE 3	0 v	3
Stornoway ...	29.81	40	36	ESE 4	chp	3	Scilly ...	29.22	51	51	SSE 2	1	6
Aberdeen ...	29.72	39	37	N 3	6	4	Dungeness ...	29.62	47	47	W 1	0	2
Shields ...	29.71	41	39	NW 3	chp	4	London ...	29.67	47	45	2	0	0 g f
Ardrossan ...	29.75	35	34	ESE 1	6	0	Yarmouth ...	29.68	41	40	NW 2	6 g f	5
Malta Head ...	29.67	42	39	E 4	0	2	Jersey ...	29.50	47	47	SSE 4	2	4
Mullaghmore ...	29.63	38	35	ESE 3	0 m	3	Rochefort ...	29.92	53	52	S 7	0	2
Belmullet ...	29.61	39	37	ESE 2	0	*							

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

Yesterday morning's reports showed that pressure was highest (29.9 ins. to 30.1 ins.) over SW and E Europe, and lowest (29.0 ins.) in a deep depression over the south of Sweden, and also (29.6 ins.) off the southwest of Ireland. Further to the northward pressure increased again. SW winds of varying strength prevailed in France, the Netherlands, and the southern part of the British Isles, with rainy dull weather and S. air over Germany and the Baltic, with finer weather, while over the northern part of Scandinavia and the British Isles the wind was NE (N to E) with fairly light weather. Temperature had fallen somewhat generally, and varied from about 60° over the south-eastern part of the Mediterranean, and from 50° in the west and south of France to a little below the freezing point over Lapland and Central Russia. The highest individual readings were 60° at Malta, 59° at Palermo and Bilbao, 58° at Genoa and Sanguinane and 53° at Biarritz; the lowest 28° at Kiev and at Bodo, 31° at Moscow, and 32° at Kioptie and also at Ardrossan.

During the day the Swedish depression passed eastwards, to the Baltic, while that to the southwestward of Valencia moved north-eastwards to Ireland. The NE and E winds consequently, became much more general over NW Europe, temperature decreased, rain fell in the southwest and south, and sleet in the northwest and north.

### EXPLANATION OF COLUMNS GIVEN ON PAGE 1.

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

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

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

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# DAILY WEATHER REPORT.

for Wednesday 15<sup>th</sup> December 1886.  
 Issued by the Meteorological Office, 116, Victoria Street, London, R. H. SCOTT, Secretary.

+ YESTERDAY EVENING.																		8 A.M. TO DAY.																		PAST 24 HOURS.		
STATIONS.	Barometer at 32° F. and Sea Level.	Temp. in Shade.	WIND.			Weather.	BAROMETER.		SHADE TEMP.			WIND.			Weather.	Sea (0 to 9.)	SHADE TEMP.		Amount of Rainfall.																			
			Dir.	Force (0 to 12.)			Reading at 32° F. and Sea Level.	Difference from 9 a.m. yesterday.	Dry.	Wet.	Difference from 8 a.m. yesterday.	Dir.	Force (0 to 12.)	Max.			Min.																					
SCANDINAVIA.	In.	°					In.	In.	°	°	°						°	°	In.																			
Haparanda ..	29.47	24	N	2	0	29.50	+ .02	16	15	- .11	N	4	0	*	34	3	-	-																				
Hernösand ...	29.52	28	N	4	0	29.65	+ .20	21	19	- .11	N	2	0	*	36	2	-	-																				
Stockholm ...	29.41	33	N	4	0	29.61	+ .45	30	29	- .5	N	2	0	*	37	2	0.04	-																				
Wibby ...	29.36	37	WNW	6	0	29.67	+ .40	36	34	- .2	NNW	4	0	*	39	34	-	-																				
Bodö ...	29.62	22	E	2	bc	29.62	+ .06	20	18	- .11	ENE	2	0	*	?	18	-	-																				
Christiansund...	29.66	32	ENE	2	c	29.65	+ .07	27	27	- .7	ESE	3	0	3	?	25	-	-																				
Skudesnaes ...	29.53	40	SSE	4	0	29.54	+ .06	39	35	+ .3	SE	6	0	4	41	36	-	-																				
Christiania Fjord (Fjorder)	29.75	35	NNE	6	bc	29.67	+ .22	30	28	- .7	NE	4	0	1	37	28	-	-																				
Skagen (The Scaw)	29.58	34	ESE	2	0	29.62	+ .22	36	32	- .1	E	2	0	1	37	32	-	-																				
Fanö ...	29.54	34	E	3	c	29.51	+ .06	34	30	0	E	3	0	*	37	32	-	-																				
Sumburgh Head	29.58	33	N	2	s	29.47	- .18	37	35	+ .4	NE	3	c	3	39	31	0.08	-																				
Stornoway ...	29.61	35	ENE	4	bcps	29.53	- .18	38	36	+ .1	ENE	5	bc	4	38	32	0.36	-																				
Wick ...	29.55	38	E	5	c	29.51	- .16	38	37	+ .3	E	5	c	1	39	32	0.17	-																				
Nairn ...	29.55	33	Z	0	s	29.47	- .18	27	25	- .9	Z	0	cu	1	36	24	0.14	-																				
Aberdeen...	29.53	33	N	3	bc	29.45	- .20	36	35	+ .2	N	3	cu	3	36	32	0.01	-																				
Leith ...	29.48	38	SE	2	0	29.36	- .18	40	39	+ .0	ESE	3	c	*	40	33	0.28	-																				
Shields ...	29.43	39	E	1	sp	29.27	- .32	41	39	0	ENE	5	0	5	41	36	0.18	-																				
Spurn Head ...	29.36	37	E	5	r	29.14	- .42	44	44	+ .2	ESE	5	rgm	4	46	34	1.00	-																				
York ...	29.41	34	SSE	1	0	29.18	- .41	38	37	+ .6	E	1	r	*	38	31	0.47	-																				
Loughborough	29.29	35	NW	2	f	29.10	- .45	38	38	+ .2	N	1	rgm	*	38	34	0.65	-																				
BRITISH ISLANDS.																																						
Ardrossan ...	29.44	34	NE	3	bc	29.31	- .27	36	36	+ .4	NE	5	om	2	36	31	0.03	-																				
Malin Head ...	29.34	39	ENE	7	om	29.26	- .22	37	37	- .1	ENE	6	or	5	43	35	0.10	-																				
Mullaghmore ...	29.28	37	E	8	or	29.20	- .16	39	38	- .1	ENE	6	0	5	40	36	0.19	-																				
Belmullet ...	29.26	37	E	10	0	29.24	- .03	40	39	+ .1	NE	5	0	*	40	36	0.31	-																				
Donaghadee ...	29.24	40	ESE	7	og	29.22	- .27	42	40	+ .2	E	7	bc	5	43	36	0.44	-																				
Barrow-in-Farness	29.35	36	NE	3	0	29.17	- .34	38	37	+ .3	NE	3	0	*	39	35	0.28	-																				
Liverpool (Bidston)	29.34	34	E	3	0	29.15	- .33	38	37	0	? E	2	om	3	39	32	0.40	-																				
Holyhead ...	29.27	44	SSW	4	r	29.14	- .23	40	40	+ .1	E	4	m	4	45	35	0.35	-																				
Parsonstown ...	29.23	46	Z	0	0	29.10	- .12	35	34	0	Z	0	f	*	48	29	0.15	-																				
Valencia ...	29.20	46	SW	3	bc	29.20	+ .08	38	37	- .7	Z	0	c	1	50	38	0.12	-																				
Roche's Point...	29.23	45	SW	2	0	29.18	+ .03	38	37	- .7	WNW	3	c	4	50	36	0.65	-																				
Pembroke ...	29.31	49	SW	5	0	29.08	- .16	44	44	0	ENE	2	cpm	4	49	43	0.36	-																				
Seilly ...	29.30	48	SSE	6	0	29.12	- .23	45	43	- .3	WNW	8	og	6	51	40	0.02	-																				
Prawle Point ...	29.41	40	WSW	5	c	29.15	- .22	44	43	- .6	WSW	5	c	6	50	40	0.68	-																				
Jersey ...	29.53	49	SSW	3	bc	29.24	- .25	45	43	- .5	WSW	7	bc	6	52	44	0.17	-																				
Hurst Castle ...	29.47	48	WSW	5	0	29.13	- .33	43	43	- .1	W	3	or	3	51	42	0.61	-																				
Dungeness ...	29.49	48	SSW	4	0	29.16	- .32	50	49	+ .6	SSW	6	r	4	52	43	0.32	-																				
London ...	29.40	44	WSW	2	0	29.11	- .41	48	46	+ .6	SW	2	bc	*	49	42	0.63	-																				
Oxford ...	29.45	41	SSW	3	0	29.07	- .44	42	41	+ .4	Z	0	m	*	45	38	0.87	-																				
Cambridge ...	29.42	41	SE	1	0	29.09	- .46	46	45	+ .9	S	1	0	*	47	35	0.32	-																				
Yarmouth ...	29.39	42	W	3	bc	29.17	- .41	45	45	+ .4	SSE	5	og	5	48	39	0.19	-																				
Cuxhaven ...	29.67	38	SW	1	c	29.53	+ .07	38	38	0	SSW	1	bc	*	41	37	0.06	-																				
Berlin ...	29.68	35	SW	1	bc	29.67	+ .11	40	40	+ .4	SW	1	c	*	43	?	0.24	-																				
Wiesbaden ...	*	*	*	*	*	29.64	+ .04	46	46	- .2	SW	2	0	*	50	45	0.24	-																				
Munich ...	29.86	50	SW	4	c	29.76	- .01	37	34	- .11	SE	4	c	*	52	36	-	-																				
FRANCE & NETHERLANDS.																																						
The Helder ...	29.42	44	WSW	4	0	29.38	- .22	41	41	0	SE	1	0	1	45	39	0.16	-																				
Brussels ...	*	*	*	*	*	29.38	- .20	49	47	+ .9	S	5	0	*	50	?	0.12	-																				
Cape Gris Nez...																																						
Paris ...	29.70	48	SSW	4	r	29.51	- .16	50	48	+ .2	SW	5	0	*	54	48	0.20	-																				
Brest ...	29.41	50	SW	7	0	29.25	- .24	47	43	- .5	WSW	7	0	7	52	43	0.32	-																				
Lorient ...	29.54	52	SW	7	c	29.38	- .21	45	43	- .8	WNW	8	c	7	54	43	0.24	-																				
Rockefort ...	29.79	53	WSW	5	r	29.63	- .17	51	47	- .4	? WSW	9	0	2	?	48	0.67	-																				
Belfort ...	29.83	49	SW	1	r	29.68	- .10	42	41	- .8	SW	1	0	*	53	40	0.20	-																				
Lyons ...	29.89	52	S	3	bc	29.74	- .21	53	48	+ .7	S	8	bc	*	55	?	-	-																				
Nice ...	30.01	48	E	1	0	30.01	- .21	49	49	0	E	3	f	2	55	45	0.16	-																				
Perpignan ...	29.91	51	Z	0	0	29.76	- .24	48	46	+ .2	Z	0	0	*	52	45	-	-																				
Biarritz ...	29.77	63	S	8	0	29.76	- .11	54	52	- .5	WNW	4	0	2	64	50	0.04	-																				
PENIN-SULA.																																						
Coranna ...	*	*	*	*	*	30.04	- .03	54	53	- .5	WSW	5	0	5	61	54	0.16	-																				
Lisbon ...	29.99	58	WSW	5	bc													-																				

For Explanation of Columns, see p. 4.



# WEATHER CHARTS

for 8 a.m. on *Wednesday, 15<sup>th</sup> December* 1886.

## BAROMETER, WIND & SEA.

(Explanation of Map)

**Barometer** — Iso-bars 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.

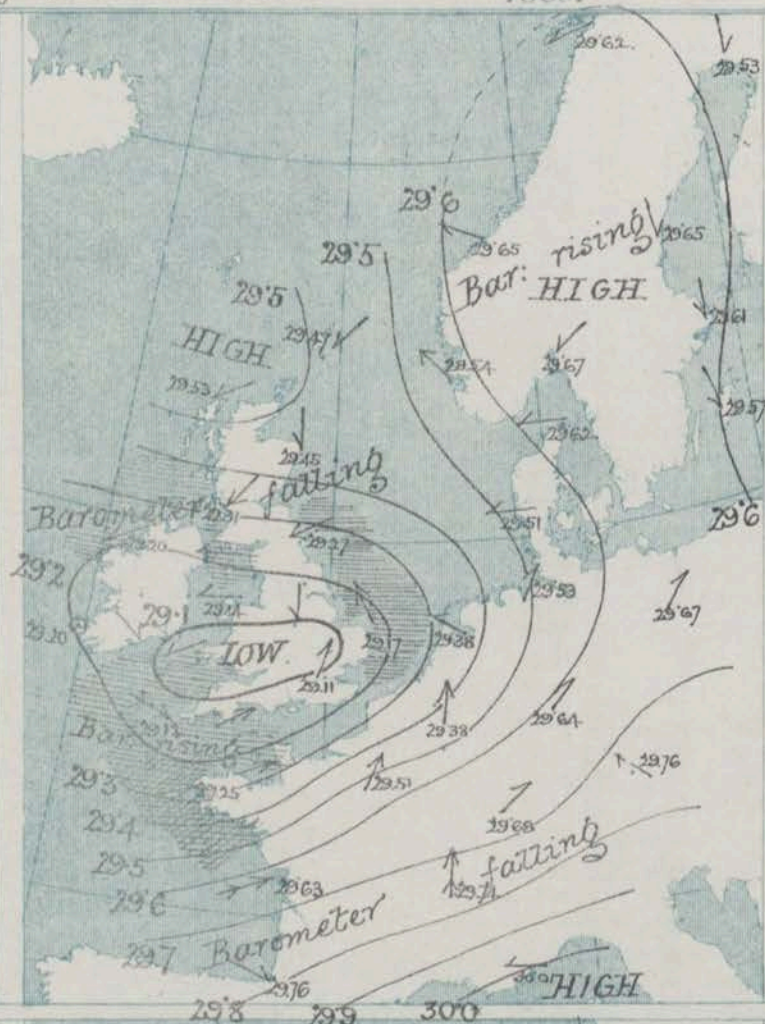
**Sea Disturbance** — where considerable is shown thus

— Rough. — High.

## MEAN HEIGHT of the BAROMETER

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

STATIONS.	MEAN READINGS.
Sumburgh Head	29.680
Stornoway	29.701
Wick	29.713
Nairn	29.741
Aberdeen	29.750
Leith	29.800
Shields	29.836
York	29.877
Ardrossan	29.810
Donaghadee	29.832
Holyhead	29.858
Liverpool	29.882
Valencia	29.879
Roche's Point	29.889
Pembroke	29.897
Scilly	29.943
Hurst Castle	29.938
Dover	29.942
LONDON	29.934
Oxford	29.937
Cambridge	29.926
Yarmouth	29.902



## 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 December.

STATIONS	TEMPERATURE.				RAINFALL (Inches)
	Daily Max	Daily Min.	At 8 a.m.		
			Dry.	Wet.	
Sumburgh Head	42.0	34.5	39.0	37.6	4.33
Stornoway	44.8	33.5	38.9	37.8	5.66
Wick	42.0	32.1	37.8	36.4	3.18
Nairn	41.5	32.8	36.9	35.4	2.08
Aberdeen	41.8	32.9	36.9	35.3	3.34
Leith	44.3	33.6	38.4	37.0	2.01
Shields	42.8	34.3	39.2	36.9	2.74
York	42.5	31.9	36.2	35.4	2.45
Ardrossan	47.0	36.1	40.1	38.3	4.04
Donaghadee	46.7	36.1	40.1	39.1	2.84
Holyhead	46.8	39.6	42.9	41.3	3.84
Liverpool	43.6	35.7	39.1	37.4	2.70
Valencia	50.0	40.0	44.7	41.8	5.82
Roche's Point	47.7	39.3	42.9	41.4	4.74
Pembroke	47.1	40.4	43.7	42.6	4.06
Scilly	49.8	43.9	47.2	45.3	4.10
Hurst Castle	45.5	36.5	40.6	39.9	2.84
Dover	44.2	36.5	40.0	38.8	3.20
LONDON	44.5	33.9	38.1	37.1	2.14
Oxford	43.3	33.6	37.3	36.6	2.13
Cambridge	43.3	31.8	36.3	35.6	1.99
Yarmouth	42.2	33.8	37.9	37.2	2.95

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





# GENERAL SITUATION AT 8 A.M.

PRESSURE	Highest, 30.0 ins and upwards in Spain and the extreme south of France, but relatively high (29.6 ins and upwards) in a large area extending from Central Europe across the Baltic and Scandinavia. Lowest, 29.1 ins and less in an elongated depression lying over Southern England.
TEMPERATURE	Highest, 54° at Biarritz and Lisbon, 53° at Lyons and 50° at Birmmham. Lowest, 16° at Haparanda, 20° at Bodø, 21° at Helsingfors and 27° at Raim. Frost occurred last night at several of our northern stations.
WIND	Strong to a gale from W over the Bay of Biscay and the mouth of the Channel. Fresh from SW or S over the Netherlands, the east of France and the south-east of England. Fresh to strong from E or NE in the northern parts of our islands.
WEATHER	Fair in Scandinavia, the extreme north of Scotland and on our south-western coasts. Cloudy or overcast elsewhere, with rain in the north of England and hail showers at Aberdeen. In the course of the past 24 hours heavy rain has fallen in many parts of the Kingdom.
SEA	High off the north-west of France, rough in the western part of the Channel and rather rough on our south-east, east and north-west coasts.

## PROBABLE CHANGES IN SYSTEM NOW PREVALENT

The depressions noticed over Ireland and England yesterday morning subsequently moved slowly in a northerly direction. In the course of the night, however, a new disturbance has apparently advanced from the south-westward, and a depression of an elongated form is now lying over Southern England.

With the present irregular distribution of pressure it is very difficult to tell in which direction this system will ultimately move. It is not improbable that further disturbances will shortly advance from the south-westward, and conditions are therefore likely to remain very unsettled.

## FORECASTS

For the 24 hours ending at NOON on 16<sup>th</sup> December 1886.

DISTRICTS.	FORECASTS.	DISTRICTS.	FORECASTS.
* 0 SCOTLAND NORTH	NE <sup>ly</sup> winds, freshening, unsettled, some cold rain or sleet.	* 6 SCOTLAND WEST	E <sup>ly</sup> and NE <sup>ly</sup> winds, strong, dull, some rain.
* 1 SCOTLAND EAST	----- D° ----- D° -----	* 7 ENGLAND N. W.	----- D° ----- D° -----
* 2 ENGLAND N. E.	E <sup>ly</sup> winds, fresh or strong, dull, rainy.	* 8 ENGLAND S. W.	W <sup>ly</sup> winds, backing later, changeable, some rain.
* 3 ENGLAND EAST	S <sup>ly</sup> winds, fresh or strong, changeable, some rain.	* 9 IRELAND NORTH	Same as N° 6.
* 4 MIDLAND COUNTIES	Same as N° 5.	* 10 IRELAND SOUTH	Variable breezes, fair to unsettled and some rain.
* 5 ENGLAND SOUTH	SW <sup>ly</sup> and S <sup>ly</sup> winds, fresh, changeable, some rain.	WARNINGS	The N. cone is still flying in districts 0 to 3, 6, 7 and 9. An asterisk is inserted against those districts in which the signals are now flying.



# YESTERDAY'S 2 P.M. REPORTS.

	Bar.	Dry.	Wet.	Wind.	Wes.	Sea.		Bar.	Dry.	Wet.	Wind.	Wes.	Sea.
Skudesnaes ...	29.52	40	36	SSE 14	0	3	Holyhead ...	29.26	36	36	ENE 7	rmg	6
Sumburgh Head	29.59	34	32	N 2	bc	3	Valencia ...	29.18	49	47	SW 6	c	5
Stornoway ...	29.63	35	34	ENE 5	spg	4	Scilly ...	29.39	50	47	SW 6	0	6
Aberdeen ...	29.55	35	33	N 3	b	3	Dungeness ...	29.41	51	50	WSW 5	cp	5
Shields ...	29.48	41	38	E 3	op	5	London ...	29.41	45	45	W 5	opg	*
Ardrossan ...	29.47	35	34	NE 3	0	2	Yarmouth ...	29.42	41	40	SSW 7	r	6
Malin Head ...	29.32	39	38	ENE 7	0	5	Jersey ...	29.53	52	48	WSW 5	b	4
Mullaghmore ...	29.28	38	37	E 8	ogr	6	Rocheport ...	29.83	55	52	WSW 5	0	2
Belmullet ...	29.24	38	37	E 10	0	*							

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

Yesterday morning's reports showed that at 8 am pressure was highest (29.9 ins. to 30.1 ins.) over the Mediterranean, Southern, and South-eastern Europe, lowest (29.3 ins.) over the Baltic, and (29.0 ins.) off the west of Ireland. Further to the northward the barometer was higher. N<sup>1</sup> to E<sup>1</sup> winds consequently prevailed over the northern parts of Northwestern Europe, while over the greater part of France the wind was W<sup>1</sup> and SW<sup>1</sup>. Over Central Europe variable W<sup>1</sup> air, and in Russia S<sup>1</sup> breezes were felt. The weather was more or less showery in all districts, but especially so in France and the British Isles, and the appearance was very unsettled.

Temperature had risen in many places, and was considerably above 50° over the southern part of the Mediterranean and the western part of France, whence it decreased in a N<sup>1</sup> direction to a little below the freezing point over Lapland, Finland, and the north of Russia. The highest individual readings were 62° at Bilbao, 59° at Biarritz and Lisbon, 58° at Malta, 55° at Barcelona and Rochefort, 53° at Rhindia and 52° at Khert, the lowest 27° at Haparanda and Kuopio, 30° at Archangel and Hermanstad, 31° at Bodö and 32° at Ardrossan.

During the day and night a new shallow depression advanced north-eastwards over the Bay of Biscay towards England causing heavy rain with E<sup>1</sup> winds in the south, and a continuation of very unsettled weather generally. The distribution of pressure continued of a very unsettled type.

### 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 Thursday 16<sup>th</sup> December 1886.

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

STATIONS.		+ YESTERDAY EVENING.					8 A.M. TO DAY.								PAST 24 HOURS.			
		Barometer at 32° F. and Sea Level.	Temp. in Shade.	WIND.		Weather.	BAROMETER.		SHADE TEMP.			WIND.		Sea. (0 to 9.)	SHADE TEMP.		Amount of Rainfall.	
				Direc.	Force. (0 to 12.)		Reading at 32° F. and Sea Level.	Difference from 8 a.m. yesterday.	Dry.	Wet.	Difference from 8 a.m. yesterday.	Direc.	Force. (0 to 12.)		Weather.	Max.		Min.
SCANDINAVIA.	Haparanda ..	29.62	1	Z	0	b	29.55	+0.2	-7	-7	-23	N	2	b	*	25	?	-
	Hernösand ...	29.73	11	Z	0	b	29.60	-0.5	9	9	-12	N	2	o	*	28	?	-
	Stockholm ...	29.73	27	Z	0	bc	29.37	-2.4	32	32	+2	NNE	4	s	*	36	27	0.12
	Wisby ...	29.65	35	SE	4	bc	29.28	-2.9	42	41	+6	WSW	4	o	*	?	32	0.20
	Bodö ...	29.56	20	ESE	2	b	29.46	-1.6	19	17	-1	NNE	4	b	2	?	18	-
	Christiansund...	29.62	24	ESE	1	b	29.36	-2.9	22	20	-5	ESE	2	b	3	27	19	-
	Skudesnaes ...	29.41	27	ESE	4	bc	29.11	-4.3	30	28	-9	NNE	2	q	3	39	?	-
	Christiania Fjord (Fierder)	29.57	26	NNE	6	o	29.14	-5.3	27	27	-3	N	6	s	1	?	23	-
	Skagen (The Scaw)	29.39	33	E	6	o	29.06	-5.6	41	40	+5	SW	5	c	3	41	?	0.24
	Fanö ...	29.23	41	WSW	4	c	29.02	-4.9	41	40	+7	SW	6	n	*	43	34	0.51
BRITISH ISLANDS.	Sumburgh Head	29.50	35	NNE	4	bq/psh	29.39	-0.8	31	30	-6	NNE	4	b	4	39	30	0.01
	Stornoway ...	29.55	35	N	6	b	29.55	+0.2	34	33	-4	NNE	4	esp	3	40	32	0.15
	Wick ...	29.46	35	NE	7	s	29.47	-0.4	35	34	-3	E	4	s	1	40	33	0.22
	Nairn ...	29.41	37	NE	5	c	29.45	-0.2	36	34	+9	N	3	bc	4	38	27	0.06
	Aberdeen...	29.30	37	N	5	chsp	29.36	-0.9	35	34	-1	N	4	chsp	4	38	34	0.31
	Leith ...	29.26	38	E	2	b	29.38	+0.2	37	35	-3	NW	2	c	*	41	35	0.02
	Shields ...	29.07	40	NE	7	n	29.32	+0.5	38	37	-3	N	4	o	6	42	35	0.84
	Spurn Head ...	28.89	37	W	5	o	29.29	+1.5	38	38	-6	WNW	5	bq	5	44	36	0.09
	York ...	28.96	39	N	4	n	29.33	+1.5	34	33	-4	NW	1	b	*	39	33	0.27
	Loughborough	29.10	38	WSW	4	n	29.35	+2.5	32	31	-6	W	1	bcm	*	39	32	0.19
GERMANY.	Ardrossan ...	29.31	36	NE	2	bcm	29.41	+1.0	36	35	0	N	1	bcm	0	38	34	-
	Malin Head ...	29.36	39	NE	4	n	29.46	+2.0	39	36	+2	NE	3	c	3	41	37	0.10
	Mullaghmore ...	29.37	40	NE	5	c	29.46	+2.6	38	35	-1	NNE	5	b	3	41	37	-
	Belmullet ...	29.38	41	E	5	o	29.50	+2.6	39	35	-1	NNE	3	b	*	41	34	0.05
	Donaghadee ...	29.30	41	E	7	bc	29.42	+2.0	41	39	-1	NE	5	bc	3	43	35	-
	Barrow-in-Furness	29.16	40	N	3	o	29.37	+2.0	35	34	-3	NNE	2	bc	*	41	31	-
	Liverpool (Bidston)	29.18	40	NW	2	o	29.38	+2.3	37	36	-1	NW	1	b	1	41	37	0.05
	Holyhead ...	29.22	43	NE	5	o	29.38	+2.4	42	40	+2	NNE	3	c	3	44	40	-
	Parsonstown ...	29.33	35	Z	0	bc	29.46	+3.6	26	26	-9	Z	0	c	*	36	25	0.06
	Valencia ...	29.25	40	ESE	3	bc	29.43	+2.3	37	35	-1	NE	5	c	4	47	37	-
FRANCE & NETHERLANDS.	Roche's Point...	29.29	36	NNE	3	b	29.38	+2.0	35	33	-3	NE	4	b	4	40	32	-
	Pembroke ...	29.23	44	WNW	4	o	29.35	+2.7	39	37	-5	NE	2	bcm	3	45	37	0.15
	Scilly ...	29.29	48	WSW	5	c	29.25	+1.3	45	43	0	ESE	2	op	6	49	43	0.03
	Prawle Point ...	29.33	44	W	4	bc	29.34	+1.9	43	42	-1	ESE	1	c	4	46	38	0.19
	Jersey ...	29.35	46	WSW	7	c	29.37	+1.3	42	41	-3	SSE	3	cm	3	48	41	0.15
	Hurst Castle ...	29.27	46	W	6	bq/p	29.35	+2.2	41	40	-2	WNW	2	b	4	48	40	0.21
	Dungeness ...	29.17	47	WSW	9	nq	29.38	+2.2	44	43	-6	WSW	4	bc	4	51	42	0.45
	London ...	29.19	44	WSW	5	op	29.38	+2.7	38	37	-10	W	1	om	*	48	36	0.01
	Oxford ...	29.35	37	SW	2	o	29.38	+2.1	37	36	-5	Z	0	cm	*	43	37	0.21
	Cambridge ...	29.14	39	SW	3	n	29.38	+2.9	35	34	-11	W	1	bc	*	47	34	0.07
PENINSULA.	Yarmouth ...	29.07	42	SW	4	c	29.32	+1.5	36	35	-9	W	3	bcm	4	46	34	0.05
	Cuxhaven ...	29.36	41	S	3	n	29.24	-2.9	42	41	+4	SW	6	bc	*	42	?	0.06
	Berlin ...	29.52	45	S	1	b	29.53	-1.4	41	39	+1	SSW	2	bc	*	46	?	*
	Wiesbaden ...	*	*	*	*	*	29.57	-0.7	41	40	-5	SW	2	o	*	52	39	0.08
	Munich ...	29.66	41	SW	2	o	29.67	-0.9	37	35	0	SE	5	o	*	55	36	-
	The Helder ...	29.18	44	SSW	9	n	29.22	-1.6	43	40	+2	SW	7	c	4	46	41	0.55
	Brussels ...	*	*	*	*	*	29.44	+0.6	40	38	-9	SW	4	f	*	49	39	0.12
	Cape Gris Nez...																	
	Paris ...	29.55	43	SW	3	bc	29.49	-0.2	41	40	-9	S	1	o	*	50	41	0.04
	Brest ...	29.43	46	W	5	o	29.30	+0.5	46	44	-1	SE	4	b	5	52	43	-

For Explanation of Columns, see p. 4. † The evening obs<sup>s</sup> at Jersey were taken at 4 p.m.



# WEATHER CHARTS

for 8 a.m. on Thursday 16<sup>th</sup> December. 1886.

## 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. The fly with the wind and their barbs and feathers refer to force, thus —

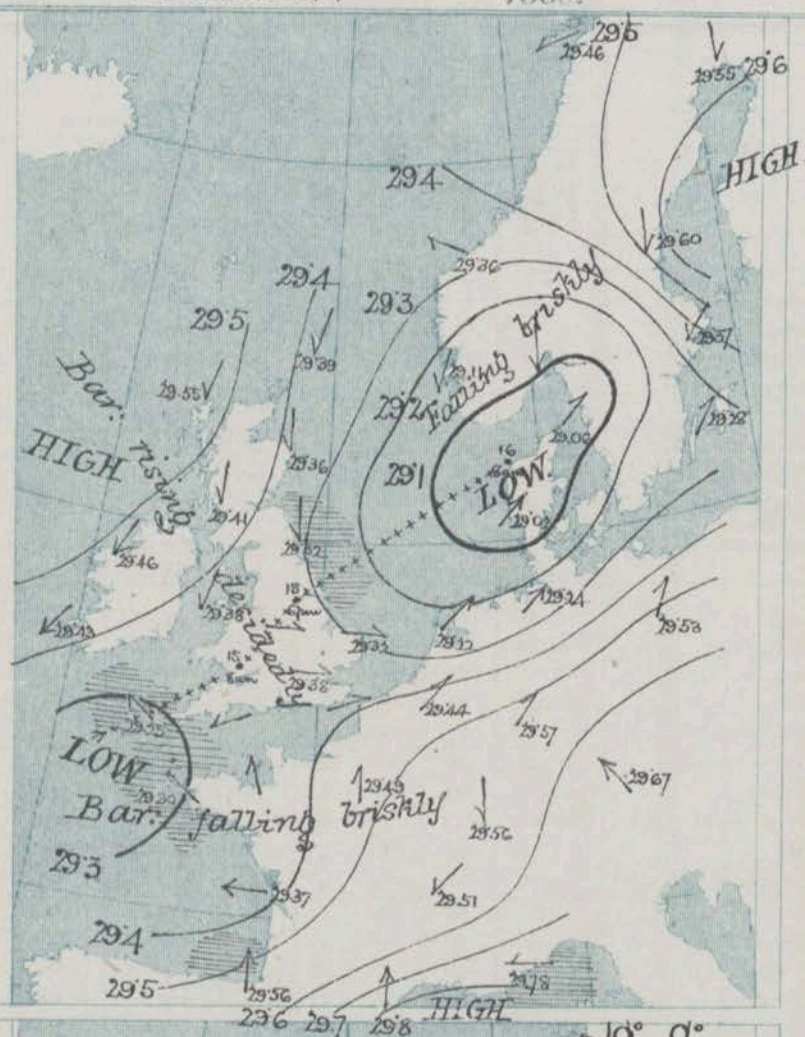
→ = forces above 10; → = forces 8 to 10;  
→ = forces 5 to 7; → = forces 1 to 4;  
○ = dead calm.

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

## MEAN HEIGHT of the BAROMETER

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

STATIONS.	MEAN READINGS.
Sumburgh Head	29.680
Stornoway	29.701
Wick	29.713
Nairn	29.741
Aberdeen	29.750
Leith	29.800
Shields	29.836
York	29.877
Ardrossan	29.810
Donaghadee	29.832
Holyhead	29.858
Liverpool	29.882
Valencia	29.879
Roche's Point	29.889
Pembroke	29.897
Scilly	29.943
Hurst Castle	29.938
Dover	29.912
LONDON	29.934
Oxford	29.937
Cambridge	29.926
Yarmouth.	29.902



## 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.

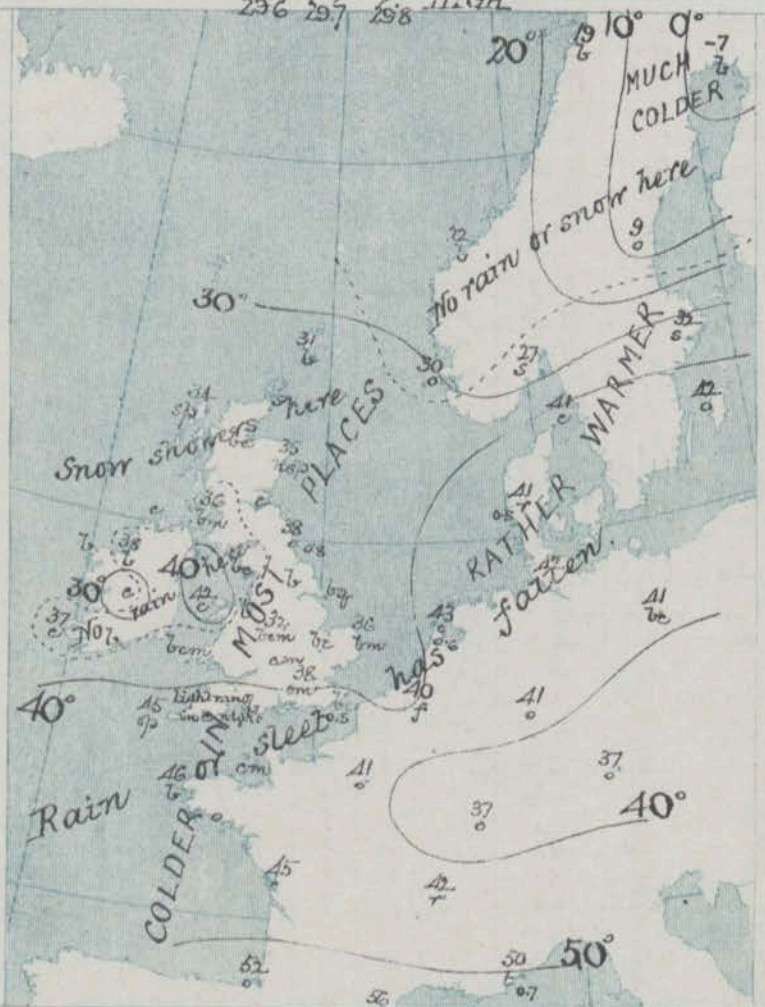
**Rainfall** A dotted line separates the districts in which rain has fallen from those where there has been none. Falls of 0.5 in. or more, are quoted in figures.

## MEANS OF TEMPERATURE IN SHADE. AND RAINFALL.

for the month of December.

STATIONS	TEMPERATURE.				RAINFALL. (Inches)
	Daily Max.	Daily Min.	A.C.B. & D.		
			Dry.	Wet.	
Sumburgh Head.	42.0	34.5	39.0	37.6	4.33
Stornoway	44.8	33.5	38.9	37.8	5.66
Wick	42.0	32.1	37.8	36.4	3.18
Nairn	41.5	32.8	36.9	35.4	2.08
Aberdeen	41.8	32.9	36.9	35.8	3.34
Leith	44.3	33.6	38.4	37.0	2.01
Shields	42.8	34.3	39.2	36.9	2.74
York	42.5	31.9	36.2	35.4	2.45
Ardrossan	47.0	36.1	40.1	38.3	1.04
Donaghadee	46.7	36.1	40.1	39.1	2.84
Holyhead	46.8	39.6	42.9	41.3	3.84
Liverpool	43.6	35.7	39.1	37.4	2.70
Valencia	50.0	40.0	44.7	41.8	5.82
Roche's Point.	47.7	39.3	42.9	41.4	4.74
Pembroke	47.1	40.4	43.7	42.6	1.06
Scilly	49.8	43.9	47.2	45.3	4.10
Hurst Castle.	45.5	36.5	40.6	39.9	2.81
Dover	44.2	36.5	40.0	38.8	3.20
LONDON	44.5	33.9	38.1	37.1	2.11
Oxford	43.3	33.6	37.3	36.6	2.13
Cambridge	43.3	31.8	36.3	35.6	1.06
Yarmouth	42.2	33.8	37.9	37.2	2.95

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, 29.7 in. and upwards, over Spain, but relatively high, 29.6 in. and upwards, over Germany and the Gulf of Bothnia, and 29.5 in. and upwards off our extreme northwest coast.  
Lowest, 29.1 in. and less in a depression lying over Denmark, but relatively low 29.3 in. and less off our extreme SW coast.

**TEMPERATURE** { Highest, 56° at Perpignan, 52° at Biarritz, 50° at Lisbon and Nice, 46° at Valent and 45° at Lelly.  
Lowest, -7° at Haparanda, 9° at Nemaund, 15° at Bodö, 26° at Parsonstown, and 32° at Loughborough.  
Frost occurred last night over all the more northern and western parts of the United Kingdom

**WIND** { Moderate off-shore from N or NE. on our western and northern coasts, light from W. in the south of England.  
Strong SW on the eastern shores of the North Sea; SE or E over the Bay of Biscay and the mouth of the Channel. Variable in the east of France.

**WEATHER** { Fair over the greater part of England and Ireland  
Cloudy elsewhere, with snow in the south of Scandinavia and the north and east of Scotland, rain at Janö, Rochefort and Lyons and thunder at Nice.

**SEA** { Rough or rather so on all the French coast and also off the east and southwest of England.

### PROBABLE CHANGES IN SYSTEM NOW PREVALENT

The depression which lay over southern England yesterday morning has travelled away in a northeasterly direction to Denmark, and in its rear a decided rise of the barometer has taken place in our Islands. In the west of France, however, a new fall has set in during the night, and there are some indications of the approach of another disturbance towards our southwest coasts.

This system may possibly advance in a north-easterly direction, and occasion rain or sleet over the greater part of England, but with the present irregular distribution of pressure the movements of depressions are very uncertain.

## FORECASTS

for the 24 hours ending at NOON on 17<sup>th</sup> December 1886.

DISTRICTS.		FORECASTS.	DISTRICTS.		FORECASTS.
0	SCOTLAND NORTH	N <sup>W</sup> winds, fresh or strong; unsettled, some snow showers.	6	SCOTLAND WEST	N <sup>W</sup> or NE <sup>W</sup> winds, moderate; fair generally.
1	SCOTLAND EAST	-----D <sup>o</sup> -----D <sup>o</sup> -----D <sup>o</sup> -----	7	ENGLAND N. W.	NE <sup>W</sup> winds, freshening; fair to unsettled with some rain or sleet.
2	ENGLAND N. E.	N <sup>W</sup> to NE <sup>W</sup> winds, fresh; fair to unsettled with some rain or sleet.	8	ENGLAND S. W.	SE <sup>W</sup> or E <sup>W</sup> winds, freshening; cloudy, some rain.
3	ENGLAND EAST	-----D <sup>o</sup> -----D <sup>o</sup> -----D <sup>o</sup> -----	9	IRELAND NORTH	Same as No 7.
4	MIDLAND COUNTIES	Same as No 5	10	IRELAND SOUTH	Same as No 7
5	ENGLAND SOUTH	Wind backing to SE or E, fair to unsettled with some rain or sleet.	WARNINGS		NONE ISSUED.



# YESTERDAY'S 2 P.M. REPORTS.

	Bar.	Dry.	Wet.	Wind.	Wca.	Sea.		Bar.	Dry.	Wet.	Wind.	Wca.	Sea.
Skudesnaes ...	29.55	39	34	ESE 6	0	4	Holyhead ...	29.16	43	41	NE 4	C	4
Sumburgh Head ...	29.55	36	33	NE 5	bc	5	Valencia ...	29.22	44	42	NNE 2	cm	2
Stornoway ...	29.54	37	36	NNE 6	bghp	5	Scilly ...	29.27	48	45	W 5	C	6
Aberdeen ...	29.36	37	35	N 3	bc	3	Dungeness ...	29.15	47	46	WSW 9	rq	5
Shields ...	29.11	40	39	NE 5	r	5	London ...	29.15	46	44	WSW 4	C	*
Ardrossan ...	29.29	38	36	HE 3	0	1	Yarmouth ...	29.06	42	42	SW 6	ogqr	5
Malin Head ...	29.32	39	37	ESE 3	0	4	Jersey ...	29.30	44	43	WSW 7	C	6
Mullaghmore ...	29.29	41	39	ENE 8	og	5	Rocheport ...	29.69	51	46	W 8	0	4
Belmullet ...	29.28	41	40	E 5	0	*							

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

Yesterday morning's report showed that the distribution of pressure over the NW<sup>th</sup> and N<sup>th</sup> half of Europe was still very complex. Readings varied from a little above 30.1 ins: over the Balkan Peninsula, Greece and the SE part of the Mediterranean, and from 29.5 ins: and upwards off the north of Scotland to rather below 29.5 ins: over Finland, and to rather below 29.1 ins: in the centre of a depression which lay over England. Strong SW breezes prevailed over France and the south of our Islands, and moderate to light S winds over Germany, Austria and Western Russia, accompanied by very changeable, showery weather, while over Northern Europe, Scandinavia, and the northern parts of the United Kingdom, the wind was N to E<sup>3</sup>, and the weather cold and somewhat showery. Temperature varied from somewhat above 50° over the south-west and south of France, Portugal, the Balkan Peninsula and the Mediterranean generally to several degrees below the freezing point over Lapland and Finland. The highest individual readings were 59° at San Fernando, and Languisau, 57° at Malta, 55° at Barcelona, and 54° at Biarritz and Lisbon; the lowest 16° at Haparanda, 20° at Rode, 22° at Uleaborg, 24° at Christiansund, and (locally) at Naivim.

(During the day the depression over England moved NE<sup>th</sup> and the weather improved a little at our western stations; the distribution of pressure, however, continued of a very complex type, and no permanent in the weather seemed likely.

### 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 17<sup>th</sup> December

1886.

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

		+ YESTERDAY EVENING.					8 A.M. TO DAY.										PAST 24 HOURS.		
STATIONS.		Barometer at 32° F. and Sea Level.	Temp. in Shade.	WIND.		Weather.	BAROMETER.		SHADE TEMP.			WIND.		Weather.	Sea. (0 to 9.)	SHADE TEMP.		Amount of Rainfall.	
				Dir.	Force. (0 to 12.)		Reading at 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.		
		Inch.	°				Inch.	Inch.	°	°	°					°	°	Inch.	
SCANDINAVIA.																			
Haparanda ..		29.48	-3	Z	0	b	29.41	-1.14	-10	-10	-3	N	2	b	*	3	?	-	
Hernösand ...		29.25	19	N	2	s	29.04	-1.56	28	28	+19	NE	8	s	*	?	5	0.16	
Stockholm ...		29.12	37	S	2	n	29.09	-1.28	29	28	-3	NSW	2	b	*	37	?	0.24	
Wisby ...		29.19	41	SSW	6	o	29.18	-1.10	38	34	-4	N	4	o	*	43	32	-	
Bodö ...		29.33	21	ENE	4	b	29.34	-1.12	19	17	0	ENE	4	b	2	21	18	-	
Christiansund...		29.13	26	SE	2	o	29.09	-1.27	28	26	+6	E	1	c	3	28	?	-	
Skudesnaes ...		29.12	31	NNW	2	bc	29.19	+0.8	30	29	0	E	1	o	3	34	30	-	
Christiania Fjord (Fjorder)		29.08	28	N	6	o	29.13	-0.1	25	24	-2	WNW	2	b	1	28	21	-	
Skagen (The Scaw)		29.11	34	WNW	4	o	29.17	+1.1	31	29	-10	WNW	2	b	1	41	28	0.16	
Fanö ...		29.26	39	W	4	c	29.36	+1.34	37	35	-4	W	4	c	*	43	36	0.12	
BRITISH ISLANDS.																			
Sumburgh Head		29.37	32	N	2	bc	29.40	+0.1	27	25	-4	N	4	c	3	33	23	0.02	
Stornoway ...		29.60	32	NW	2	bsp	29.71	+1.6	26	26	-8	NNW	4	sq	3	35	24	0.19	
Wick ...		29.50	32	NW	3	s	29.55	+0.8	28	26	-7	NNW	3	c	1	40	24	0.22	
Nairn ...		29.53	32	NW	1	c	29.59	+1.4	30	29	-6	NW	3	bc	2	36	27	-	
Aberdeen...		29.48	32	NNW	4	bsp	29.56	+1.20	28	27	-7	NW	5	bsp	4	36	27	0.11	
Leith ...		29.55	35	NW	1	b	29.62	+1.24	28	28	-9	W	1	bm	*	41	26	-	
Shields ...		29.49	35	N	1	b	29.63	+1.31	28	27	-10	W	1	bm	5	40	26	0.11	
Spurn Head ...		29.46	38	NNW	3	bc	29.62	+1.33	35	34	-3	WNW	3	bc	3	40	34	0.04	
York ...		29.49	35	N	1	b	29.64	+1.31	28	28	-6	WNW	1	b	*	39	27	-	
Loughborough		29.49	32	WNW	1	b	29.66	+1.31	28	28	-4	E	1	cm	*	40	27	-	
IRISH ISLANDS.																			
Ardrossan ...		29.56	34	NE	1	b	29.64	+1.23	33	33	-3	NNW	1	b	0	39	29	-	
Malin Head ...		29.57	39	NE	3	b	29.70	+1.24	33	33	-6	N	4	crsp	4	41	32	0.02	
Mullaghmore ...		29.59	39	NE	3	c	29.74	+1.28	36	34	-2	NE	4	c	2	40	29	-	
Belmullet ...		29.62	39	NE	3	bc	29.79	+1.29	38	35	-1	N	3	bc	*	42	34	0.11	
Donaghadee ...		29.57	40	NE	4	bc	29.68	+1.26	33	32	-8	W	4	s	2	42	31	0.01	
Barrow-in-Furness		29.40	36	NNW	2	b	29.63	+1.26	32	30	-3	N	3	b	*	40	30	-	
Liverpool (Bidston)		29.53	36	N	1	b	29.66	+1.28	34	33	-8	NSW	1	b	2	39	33	-	
Holyhead ...		29.53	38	Z	0	b	29.66	+1.28	40	37	-2	N	1	c	1	43	34	0.101	
Parsonstown ...		29.55	33	Z	0	b	29.73	+1.27	22	21	-4	Z	0	b	*	34	21	-	
Valencia ...		29.51	37	NE	5	b	29.73	+1.30	34	33	-3	NE	2	b	3	44	34	-	
FRANCE & NETHERLANDS.																			
Roche's Point...		29.45	38	ENE	4	bc	29.66	+1.28	33	31	-2	NE	3	b	4	41	32	-	
Pembroke ...		29.46	39	NE	3	b	29.64	+1.29	34	33	-5	NE	2	m	1	40	34	-	
Scilly ...		29.32	45	E	7	A	29.49	+1.24	47	44	+2	E	6	o	5	49	42	0.241	
Prawle Point ...		29.43	40	NE	2	A	29.58	+1.24	40	40	-3	NE	4	og	4	47	39	0.31	
Jersey ...		29.44	41	ENE	1	bm	29.57	+1.20	43	42	+1	SE	4	ogm	3	46	39	-	
GERMANY.																			
Hurst Castle ...		29.45	39	NE	3	m	29.63	+1.28	35	33	-6	NE	2	m	3	43	32	-	
Dungeness ...		29.41	41	NE	2	bc	29.62	+1.24	31	34	-13	N	2	f	1	48	31	-	
London ...		29.46	38	E	1	m	29.65	+1.27	33	33	-5	Z	0	fg	*	42	30	-	
Oxford ...		29.54	32	NE	1	b	29.66	+1.28	29	29	-8	N	1	f	*	43	29	-	
Cambridge ...		29.48	32	N	1	b	29.68	+1.30	26	26	-9	Z	0	b	*	42	25	-	
NETHERLANDS.																			
Yarmouth ...		29.42	37	NW	2	bcm	29.64	+1.32	31	30	-5	NW	2	bcm	4	40	30	-	
Cuxhaven ...		29.28	40	N	3	o	29.43	+1.19	43	42	+1	W	2	c	*	44	36	-	
FRANCE.																			
Berlin ...		29.44	42	Z	0	o	29.43	-1.10	39	38	-2	W	2	o	*	46	36	*	
Wiesbaden ...		*	*	*	*	*	29.67	+1.10	40	39	-1	W	2	bc	*	45	37	0.39	
Munich ...		29.30	37	SW	2	o	29.57	-1.10	38	37	+1	NW	6	A	*	45	36	0.04	
ITALY.																			
The Helder ...		29.40	42	NW	1	bc	29.59	+1.37	41	38	-2	NW	3	c	3	45	39	-	
BRUSSIA.		*	*	*	*	*	29.68	+1.24	36	36	-4	NSW	1	f	*	43	36	-	
Cape Gris Nez...		29.43	43	NE	1	o	29.61		40	37		SE	1	bc	1	50	37	0.24	
Paris ...		29.40	41	SW	1	o	29.71	+1.22	35	35	-6	NE	1	o	*	48	32	0.08	
Brest ...		29.43	45	ESE	5	A	29.46	+1.16	44	41	-2	ESE	5	A	5	52	43	0.08	
FRANCE & NETHERLANDS.																			
Lorient ...		29.45	46	S	3	o	29.31	-1.27	45	43	+2	ESE	4	A	5	46	41	0.32	
Rochefort ...		29.55	45	NNW	7	o	29.63	+1.26	44	43	-1	SSE	7	o	2	50	37	0.51	
Belfort ...		29.35	36	N	3	A	29.76	+1.20	36	36	-1	SW	1	o	*	43	35	0.39	
Lyons ...		29.41	45	E	1	c	29.76	+1.25	41	39	-2	ENE	3	bc	*	53	40	0.32	
Nice ...		29.50	52	W	5	A	29.73	-0.05	47	42	-3	Z	0	b	4	54	43	-	
NETHERLANDS.																			
Perpignan ...		29.56	54	NW	3	b	29.67	+1.20	42	41	-4	NE	1	b	*	63	35	-	
Biarritz ...		29.65	54	W	8	b	29.57	+1.40	51	48	-1	S	5	b	2	57	48	0.28	
SPAIN.																			
Corunna ...		*	*	*	*	*													
Lisbon ...		29.65	55	S	5	A	29.65	-1.13	6	56	+4	SEW	1	o	7	59	?	0.91	

For Explanation of Columns, see p. 4.



# WEATHER CHARTS

for 8 a.m. on Friday, 17<sup>th</sup> December, 1880.

## BAROMETER, WIND & SEA.

(Explanation of Map)

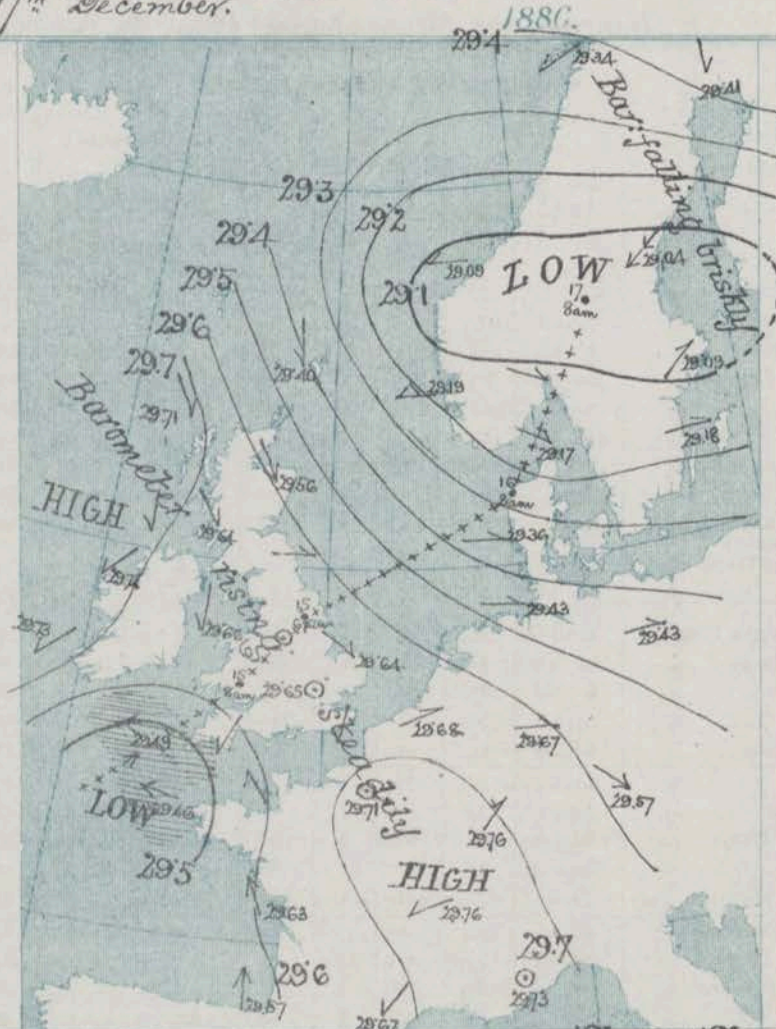
**Barometer** — Isobars are drawn for each tenth of an inch. Changes since previous morning are stated in words.  
**Wind** — Arrows show the prevalent winds. They fly with the wind and their barbs and feathers refer to force, thus —  
 \* — forces above 10, \* — forces 8 to 10,  
 — forces 5 to 7, —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

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

## MEAN HEIGHT of the BAROMETER

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

STATIONS.	MEAN READINGS.
	in.
Sumburgh Head	29.680
Stornoway	29.701
Wick	29.713
Nairn	29.741
Aberdeen	29.750
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Roche's Point	29.889
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Seilly	29.943
Hurst Castle	29.938
Dover	29.942
LONDON	29.934
Oxford	29.937
Cambridge	29.928
Yarmouth	29.902



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

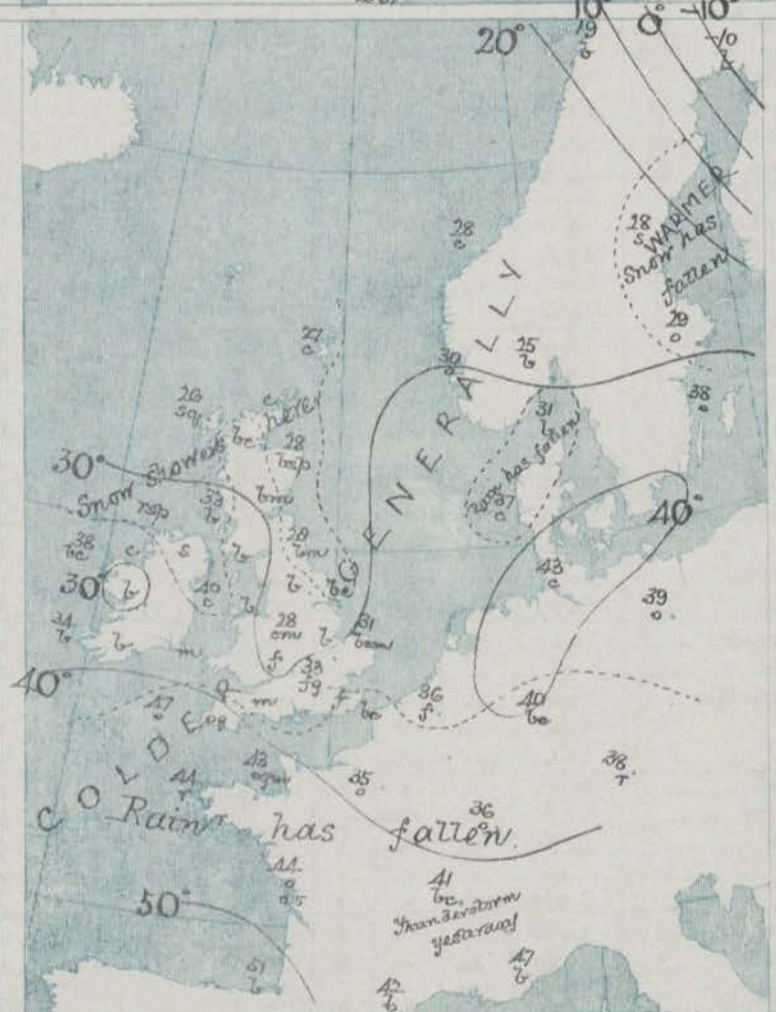
**Temperature** — Isotherms are drawn for each 10° changes since previous morning are stated in words.  
**Weather** — is shown by Letters of the Beaufort Scale.  
**Rainfall** — A dotted line separates the districts in which rain has fallen from those where there has been none. Falls of 0.5 in. or more,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

## MEANS OF TEMPERATURE IN SHADE. AND RAINFALL.

for the month of December.

STATIONS	TEMPERATURE				RAINFALL (Inches)
	Daily Max	Daily Min.	At 8 a.m.		
			Dry.	Wet	
Sumburgh Head	42.0	34.5	39.0	37.6	4.33
Stornoway	44.8	33.5	38.9	37.8	5.86
Wick	43.0	32.1	37.8	36.4	3.18
Nairn	41.5	32.8	36.9	35.4	2.08
Aberdeen	41.8	32.9	36.9	35.3	5.34
Leith	44.3	33.6	38.4	37.0	2.01
Shields	42.8	34.3	39.2	36.9	2.74
York	42.5	31.9	36.2	35.4	2.45
Ardrossan	37.0	36.1	40.1	38.3	4.04
Donaghadee	43.7	36.1	40.1	39.1	2.84
Holyhead	46.8	39.6	42.9	41.3	3.84
Liverpool	43.6	35.7	39.1	37.4	2.70
Valencia	50.0	40.0	44.7	41.8	5.82
Roche's Point	37.7	33.3	42.9	41.4	4.74
Pembroke	47.1	40.4	43.7	42.6	4.06
Seilly	49.8	43.9	47.2	45.3	4.10
Hurst Castle	45.5	36.5	40.6	39.9	2.84
Dover	44.2	36.5	40.0	38.8	3.20
LONDON	44.5	33.9	38.1	37.1	2.14
Oxford	46.3	33.6	37.3	36.6	2.13
Cambridge	43.3	31.8	36.3	35.6	1.09
Yarmouth	42.2	33.8	37.9	37.2	2.95

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, 29.7 ins. and upwards, in areas lying respectively over the E. and SE. of France, and to the W. of our Islands. Lowest, 29.1 ins. and less in a depression lying over Scandinavia, but relatively low, 29.5 ins. and less in another depression lying near the mouth of the Channel.
TEMPERATURE	Highest, 56° at Lisbon, 51° at Biarritz, 47° at Scilly and 46° at Dover and Ales. Lowest, -10 at Naparanda, 19° at Porto, 22° at Paris, and 26° at Stornoway and Cambridge. Sharp frost occurred last night in many parts of the Kingdom.
WIND	Moderate NW <sup>2</sup> on our extreme north and east coasts, and W <sup>2</sup> on the eastern shores of the North Sea, as well as in the Netherlands and Germany. Moderate N <sup>1</sup> or NE <sup>1</sup> on our west and south-west coasts, fresh SE <sup>1</sup> or S <sup>1</sup> in the west of France.
WEATHER	Fair over the greater part of Western Europe, but snow showers falling over the northern districts of Ireland and Scotland, and rain in the northwest of France.
SEA	Rather rough at the mouth of the Channel and also at Shields, but moderate to smooth elsewhere.

## PROBABLE CHANGES IN SYSTEM NOW PREVALENT

The depression which lay over Denmark yesterday has moved away to Central Scandinavia, while the small disturbance noticed off our south-west coasts has partially filled up.

The barometer is now rising at all but the Swedish stations, but the distribution of pressure is still very irregular, the areas of relatively high readings to the northward and southward of our Islands, being united by a "col" which stretches across England. The rise of the mercury is at present too uniform to lead to any important change in this distribution, and no material alteration in the weather is therefore likely at present.

## FORECASTS

For the 24 hours ending at NOON on 18<sup>th</sup> December, 1886.

DISTRICTS.	FORECASTS.	DISTRICTS.	FORECASTS.
0 SCOTLAND NORTH	NW <sup>2</sup> and N <sup>2</sup> Winds, fresh; unsettled, some snow showers.	6 SCOTLAND WEST	N <sup>2</sup> Winds, light or moderate, fair generally.
1 SCOTLAND EAST	D°-----D°-----D°-----	7 ENGLAND N.W.	D°-----D°-----D°-----
2 ENGLAND N.E.	NW <sup>2</sup> Winds, light; fair generally, but snow showers locally.	8 ENGLAND S.W.	NE <sup>2</sup> Winds, moderate or fresh, cloudy, rain locally.
3 ENGLAND EAST	Same as N° 5	9 IRELAND NORTH	N <sup>2</sup> Winds, moderate; fair generally, but some snow showers.
4 MIDLAND COUNTIES	Same as N° 5.	10 IRELAND SOUTH	NE <sup>2</sup> Winds, light; fair generally.
5 ENGLAND SOUTH	Light breezes, chiefly NE <sup>2</sup> ; fair generally, but fog in many places.	WARNINGS	NONE ISSUED.



# YESTERDAY'S 2 P.M. REPORTS.

	Bar.	Dry.	Wet.	Wind.	Wen.	Sea.		Bar.	Dry.	Wet.	Wind.	Wen.	Sea.
Skudesnaes ...	29.10	33	29	NW 2	0	3	Holyhead ...	29.45	42	40	NE 3	bc	2
Sumburgh Head ...	29.37	31	30	NNE 3	bc	4	Valencia ...	29.45	40	39	NNE 4	b	5
Stornoway ...	29.59	34	33	N 3	b	3	Scilly ...	29.27	47	45	E 6	c/p	5
Aberdeen ...	29.46	35	34	NW 4	b ps	4	Dungeness ...	29.36	44	43	NW 2	bc	1
Shields ...	29.43	38	37	NW 2	or sp	6	London ...	29.40	42	39	ESE 1	bc	*
Ardrossan ...	29.51	39	36	N 1	b	1	Yarmouth ...	29.36	40	38	NW 2	bm	4
Malin Head ...	29.52	39	37	NNE 3	c	3	Jersey ...	29.36	45	44	SSE 1	b	2
Mullaghmore ...	29.54	40	37	ESE 3	b	2	Rocheport ...	29.30	44	43	NE 3	n	2
Belmullet ...	29.57	42	38	ESE 3	b	*							

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

The reports for yesterday morning showed a continuance in the prevalence of two high pressure areas — one (the most important) lying over the southeastern part of the Mediterranean and south-eastern Europe, the other off our extreme northwest coasts. Between these two systems lay two depressions, one over the North Sea and the other over the Bay of Biscay, the two being separated by a "col" which spread from SE to NW. over Great Britain. The winds were very variable both in force and direction, the weather cloudy and showery and rather cold, with a tendency towards still colder conditions generally. Temperature varied from about 60° over the south-eastern part of the Mediterranean, and from rather above 50° in the southwest of France to rather below the freezing point in Transylvania and Hungary, and to very much below the freezing point over Finland. The isotherm of 32° in the north passed from W to E. across the south of Sweden, the Gulf of Bothnia and Finland, through St Petersburg and thence away to the eastward. The highest individual readings were 60° at Malta, 59° at Langunais, 58° at Livourne and Livorno, 56° at Perpignan, and 52° at Biarritz and Lisbon, the lowest —† at Haparanda +4° at Uleaborg, 10° at Helsingfors, 19° at Rode, and 28° at Hermanstadt.

Later in the day the depression over the North Sea moved away to the north-eastward, while that in the south-west began to fill up. The weather became colder over the British Isles, with calms and light breezes, and the barometer rose 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 Saturday 18<sup>th</sup> December 1886.

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

STATIONS.		+ YESTERDAY EVENING.					8 A.M. TO DAY.										PAST 24 HOURS.		
		Barometer at 32° F. and Sea Level.	Temp. in Shade.	WIND.		Weather.	BAROMETER.		SHADE TEMP.			WIND.		Sea. (0 to 9.)	SHADE TEMP.		Amount of Rainfall.		
				Dir.	Force. (0 to 12.)		Reading at 32° F. and Sea Level.	Difference from 8 a.m. yesterday.	Dry.	Wet.	Difference from 8 a.m. yesterday.	Dir.	Force. (0 to 12.)		Weather.	Max.		Min.	
SCANDINAVIA.	Haparanda ...	29.21	10	E	8	S	29.05	- .36	14	14	+ 24	ESE	8	S	*	-11	0.32		
	Hernösand ...	28.89	23	NE	6	S	29.00	- .04	17	16	- 11	NNW	2	O	*	30	?	0.39	
	Stockholm ...	29.20	24	NW	2	b	29.24	+ .15	27	25	- 2	W	2	O	*	37	23	-	
	Wishby ...	29.23	36	W	6	b	29.36	+ .18	36	32	- 2	W	6	b	*	39	34	-	
	Bodö ...	29.33	20	ESE	2	O	29.35	+ .01	23	19	+ 4	ESE	2	C	1	?	18	-	
	Christiansund...	29.18	26	ESE	1	C	29.29	+ .20	28	27	0	W	0	S	3	28	23	0.08	
	Skudesnaes ...	29.23	33	WNW	5	O	29.28	+ .09	27	26	- 2	ESE	2	C	3	34	?	-	
	Christiania Fjord (Færdar)	29.19	29	W	4	b	29.28	+ .15	27	25	+ 2	WNW	4	b	2	?	25	-	
	Skagen (The Seaw)	29.31	31	NW	7	O	29.39	+ .13	31	30	0	W	3	O	2	36	28	0.16	
	Fanö ...	29.49	33	W	4	S	29.34	- .02	33	32	- 4	NE	1	O	*	39	30	0.08	
BRITISH ISLANDS.	Sumburgh Head	29.31	26	N	2	bcp	29.40	.00	35	34	+ 8	N	6	O	4	36	24	0.05	
	Stornoway ...	29.67	29	NNW	5	Sq	29.62	- .09	34	34	+ 8	NNW	6	chg	4	35	25	0.34	
	Wick ...	29.47	29	NW	3	S	29.51	- .04	35	33	+ 7	N	3	S	1	35	22	0.22	
	Nairn ...	29.61	28	W	0	S	29.52	- .07	31	31	+ 1	W	0	O	1	34	24	0.24	
	Aberdeen...	29.56	25	W	4	b	29.45	- .11	33	31	+ 5	NW	4	OSP	3	35	24	0.08	
	Leith ...	29.66	28	W	1	b	29.52	- .10	29	29	+ 1	W	1	b	*	34	24	0.01	
	Shields ...	29.66	28	NNW	1	b	29.51	- .12	28	27	0	W	3	C	3	33	21	-	
	Spurn Head ...	29.61	33	NW	3	b	29.57	- .05	27	26	- 8	W	4	b	4	36	25	-	
	York ...	29.66	30	WNW	1	b	29.58	- .06	25	24	- 3	W	1	b	*	35	20	-	
	Loughborough	29.65	29	WSW	1	S	29.65	- .01	24	23	- 4	W	2	b	*	32	21	-	
GERMANY.	Ardrossan ...	29.68	30	N	2	b	29.58	- .06	34	33	+ 1	NNW	3	C	2	34	25	-	
	Malin Head ...	29.73	33	NNE	3	bcp	29.73	+ .03	36	33	+ 3	NNW	3	OSP	5	37	31	0.03	
	Mullaghmore ...	29.77	31	NE	4	b	29.79	+ .05	32	32	- 4	NE	5	OS	4	36	26	0.25	
	Belmullet ...	29.79	35	N	5	C	29.86	+ .07	36	33	- 2	N	4	O	*	38	30	0.25	
	Donaghadee ...	29.71	35	NW	3	b	29.64	- .04	32	32	- 1	NW	4	C	2	37	24	0.18	
	Barrow-in-Furness	29.66	30	NNE	2	b	29.58	- .05	34	32	+ 2	NW	4	SU	*	36	25	0.02	
	Liverpool (Bidston)	29.66	33	N	1	O	29.64	- .02	31	30	- 3	W	3	C	4	37	26	0.02	
	Holyhead ...	29.68	37	NE	4	OSP	29.68	+ .02	36	34	- 4	NNW	5	C	4	41	32	0.04	
	Parsonstown ...	29.78	29	W	0	b	29.85	+ .12	25	24	+ 3	W	0	b	*	33	19	-	
	Valencia ...	29.82	37	NNE	4	Sq	29.91	+ .18	34	33	0	N	3	b	3	46	31	0.10	
FRANCE & NETHERLANDS.	Roche's Point...	29.73	34	NNE	3	b	29.86	+ .20	30	29	- 3	NNW	2	b	3	40	29	-	
	Pembroke ...	29.63	36	NE	2	b	29.77	+ .13	33	31	- 1	NNW	2	b	1	38	29	0.06	
	Scilly ...	29.84	45	NE	6	C	29.76	+ .27	40	36	- 7	N	5	C	4	47	38	0.06	
	Prawle Point ...	29.53	38	NNE	4	O	29.78	+ .20	30	29	- 10	N	2	b	3	41	29	0.16	
	Jersey ...	29.44	42	E	3	ORM	29.71	+ .14	39	37	- 4	NNE	3	OGM	3	43	39	0.36	
	Hurst Castle ...	29.55	37	NE	3	SPD	29.73	+ .10	30	29	- 5	N	2	m	2	41	28	0.10	
	Dungeness ...	29.58	41	WSW	3	C	29.62	.00	30	29	- 1	N	3	C	2	45	28	0.35	
	London ...	29.60	35	NE	1	f	29.69	+ .04	26	25	- 7	NW	2	b	*	35	26	0.12	
	Oxford ...	29.61	31	NE	1	O	29.72	+ .06	26	25	- 3	W	1	b	*	32	25	-	
	Cambridge ...	29.62	32	W	0	O	29.66	- .02	23	22	- 3	NNW	1	b	*	34	21	-	
PORTUGAL.	Yarmouth ...	29.62	34	NW	2	b	29.58	- .06	27	26	- 4	NW	3	b	3	35	26	-	
	Cuxhaven ...	29.59	37	W	3	N	29.43	- .00	36	33	- 7	E	2	S	*	?	33	0.24	
	Berlin ...	29.74	33	NNW	1	b	29.44	+ .01	34	33	- 5	SE	2	N	*	43	30	-	
	Wiesbaden ...	*	*	*	*	*	29.47	- .20	47	45	+ 7	SW	6	O	*	50	36	-	
	Munich ...	29.80	34	E	2	b	29.71	+ .14	32	31	- 6	SE	1	b	*	39	28	-	
	The Helder ...	29.62	50	NNW	1	C	29.46	- .13	35	34	- 6	NNW	3	O	3	41	?	0.20	
	Brussels ...	*	*	*	*	*	29.54	- .14	35	35	- 1	W	1	f	*	41	33	0.47	
	Cape Gris Nez...	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	
	Paris ...	29.62	42	SE	3	N	29.65	- .06	40	38	+ 5	W	3	O	*	43	?	0.08	
	Brest ...	29.47	43	NE	4	O	29.71	+ .25	41	38	- 3	NNE	3	O	3	52	39	0.04	
AFRICA.	Lorient ...	29.40	46	ESE	4	O	29.71	+ .30	43	41	- 2	NNW	4	O	4	48	41	0.47	
	Rochefort ...	29.62	53	WSW	8	b	29.72	+ .09	49	49	+ 5	S	4	N	2	55	?	0.24	
	Belfort ...	29.76	36	E	1	b	29.70	- .06	47	46	+ 11	SW	3	N	*	48	?	-	
	Lyons ...	29.72	48	S	3	C	29.77	+ .01	49	47	+ 8	S	3	N	*	50	?	-	
	Nice ...	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	
	Perpignan ...	29.75	45	W	0	b	29.76	+ .09	46	45	+ 4	SSW	1	O	*	38	41	-	
	Barritz ...	29.66	57	S	5	C	29.65	+ .09	53	51	+ 2	SE	4	O	2	59	50	0.04	
	Corunna ...	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	
	Lisbon ...	29.60	60	SSW	7	O	29.68	+ .03	58	55	+ 2	SE	5	C	?	61	?	0.59	

For Explanation of Columns, see p. 4.



# WEATHER CHARTS

for 8 a.m. on *Saturday, 18<sup>th</sup> December* 1880.

## 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 wind. The 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.

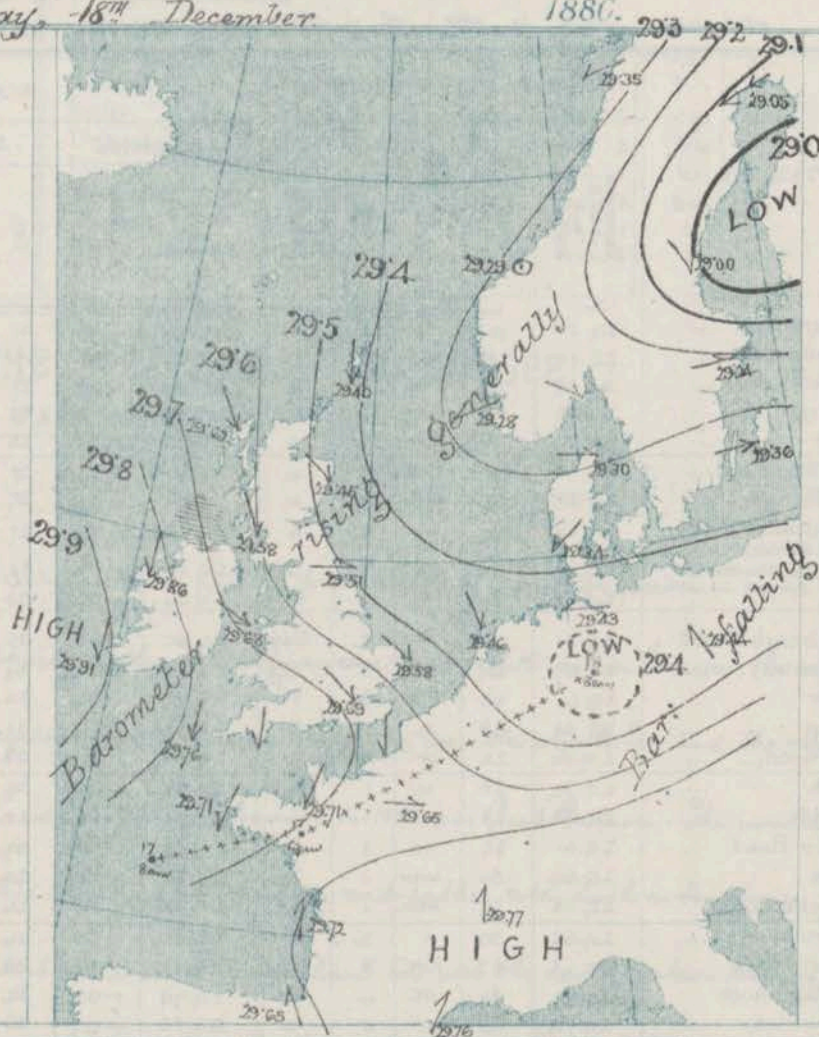
**Sea Disturbance** — where considerable is shown thus

■ = Rough. ■ = High

## MEAN HEIGHT of the BAROMETER

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

STATIONS.	MEAN READINGS.
	in.
Sumburgh Head	29.680
Stornoway	29.701
Wick	29.713
Nairn	29.741
Aberdeen	29.750
Leith	29.800
Shields	29.836
York	29.877
Ardrossan	29.810
Donaghadee	29.852
Holyhead	29.858
Liverpool	29.882
Valencia	29.879
Roche's Point	29.889
Pembroke	29.897
Scilly	29.943
Hurst Castle	29.938
Dover	29.912
LONDON	29.934
Oxford	29.937
Cambridge	29.926
Yarmouth	29.902



## 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.

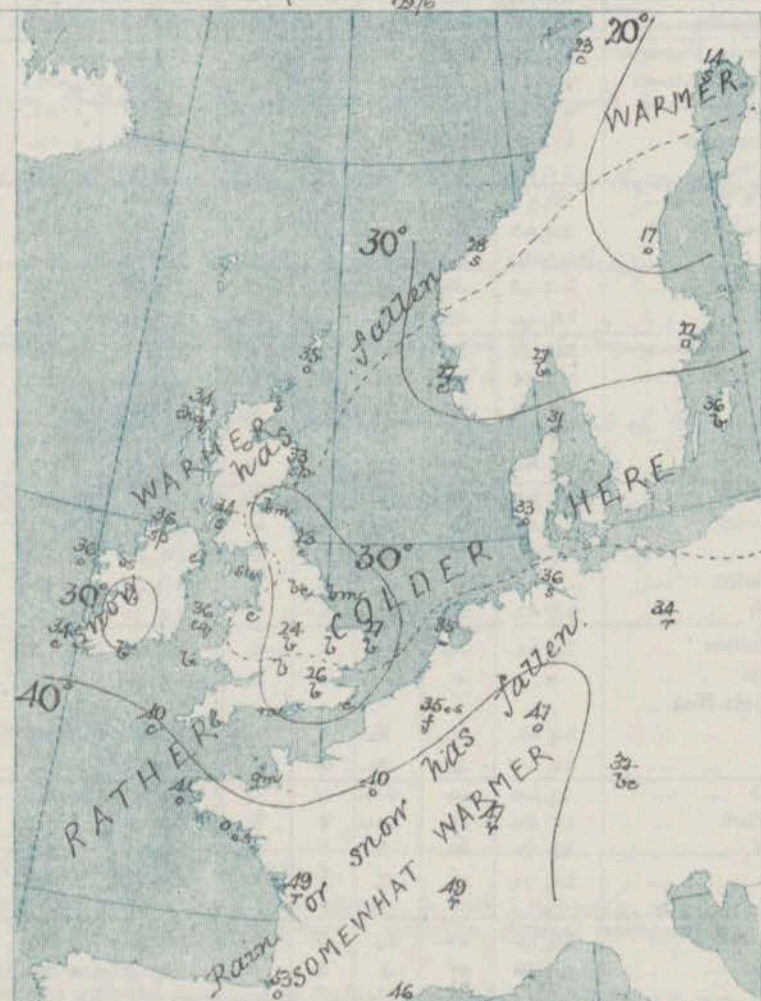
**Rainfall** — A dotted line separates the districts in which rain has fallen from those where there has been none. Falls of 0.5 in. or more, are quoted in figures.

## MEANS OF TEMPERATURE IN SHADE. AND RAINFALL.

for the month of December.

STATIONS	TEMPERATURE				RAINFALL (Inches)
	Daily Max.	Daily Min.	At 8 a.m.		
			Dry.	Wet.	
Sumburgh Head	42.0	34.5	39.0	37.6	4.33
Stornoway	44.8	33.5	38.9	37.8	5.66
Wick	42.0	32.1	37.8	36.4	3.18
Nairn	41.5	32.8	36.9	35.4	2.08
Aberdeen	41.8	32.9	36.9	35.3	3.34
Leith	44.3	38.6	38.4	37.0	2.01
Shields	42.8	34.3	39.2	36.9	2.74
York	42.5	31.9	36.2	35.4	2.45
Ardrossan	47.0	36.1	40.1	38.3	4.04
Donaghadee	46.7	36.1	40.1	39.1	2.84
Holyhead	46.8	39.6	42.9	41.3	2.84
Liverpool	43.6	35.7	39.1	37.4	2.70
Valencia	50.0	40.0	44.7	41.8	5.82
Roche's Point	47.7	39.3	42.9	41.4	4.74
Pembroke	47.1	40.4	43.7	42.6	4.06
Scilly	49.8	43.9	47.2	45.3	4.10
Hurst Castle	45.5	36.5	40.6	39.0	2.84
Dover	44.2	36.5	40.0	38.8	3.20
LONDON	44.5	33.9	38.1	37.1	2.14
Oxford	43.3	33.6	37.3	36.6	2.13
Cambridge	43.3	31.8	36.3	35.6	1.16
Yarmouth	42.2	33.8	37.9	37.2	2.95

NOTE — The Temperature means are for the 10 years 1871—80; the Rainfall means are mainly those for the 20 years 1861—85.





# GENERAL SITUATION AT 8 A.M.

PRESSURE	{ Highest, 29.8 ins. and upwards off the W. of Ireland, but relatively high 29.7 ins. and upwards over the southern parts of France & Germany. Lowest, 29.0 ins. and less over the Gulf of Bothnia, but relatively low (29.4 ins.) in a depression lying over North Germany.
TEMPERATURE	{ Highest, 58° at Lisbon, 53° at Birmm, 49° at Rochefort, and Lyons and 47° at Belfast. Lowest, 14° at Hafslunda, 14° at Hermsund, 23° at Bodø and Cambridge and 25° at Larsoestown. Sharp frost occurred last night over the United Kingdom.
WIND	{ Moderate NW or N over the greater part of our Islands, but W on our N. and E. coasts. Moderate S in the south of France. Cyclonic circulations reported over Germany and the Netherlands, round the depression noticed above.
WEATHER	{ Fine over the southern parts of England and Ireland. Cloudy elsewhere, with snow in the north of our Islands, and rain at some of the French stations as well as at Bodø. During yesterday snow or sleet fell over the greater part of the Kingdom.
SEA	{ Rather rough at Lquend, moderate to smooth elsewhere.

## PROBABLE CHANGES IN SYSTEM NOW PREVALENT

The large depression which lay over Scandinavia yesterday has moved north-eastwards, while the smaller disturbance noticed off our southwest coasts has grown somewhat deeper and travelled rapidly in an east-north-easterly direction to North Germany. In the rear of these systems the barometer is now rising at all but the German stations, and an area of relatively high pressure still lies to the westward of Ireland.

There is at present no sign of any important change in the weather, but shallow depressions may possibly advance over England from the northward, occasioning snow showers in many places.

## FORECASTS

For the 24 hours ending at NOON on 19<sup>th</sup> DEC.

1886.

### DISTRICTS.

### FORECASTS.

* 0	{ SCOTLAND NORTH	NW <sup>ly</sup> and N <sup>ly</sup> winds, strong; unsettled, some snow.
* 1	{ SCOTLAND EAST	NW <sup>ly</sup> winds, moderate; changeable, some snow showers.
2	{ ENGLAND N.E.	-----D-----D-----D-----
3	{ ENGLAND EAST	Same as N° 5
4	{ MIDLAND COUNTIES	Same as N° 5
5	{ ENGLAND SOUTH	NW <sup>ly</sup> and N <sup>ly</sup> winds, light; fair generally, but perhaps some snow showers.

### DISTRICTS.

### FORECASTS.

6	{ SCOTLAND WEST	Same as N° 1
7	{ ENGLAND N.W.	Same as N° 1.
8	{ ENGLAND S.W.	N <sup>ly</sup> winds, moderate; fair generally, but some snow showers.
9	{ IRELAND NORTH	NW <sup>ly</sup> and N <sup>ly</sup> winds, fresh; unsettled, some snow.
10	{ IRELAND SOUTH	Same as N° 8.

### WARNINGS

The N. Cone was hoisted yesterday in districts 6 and part of 1. An asterisk is inserted against those districts in which signals are now flying.



# YESTERDAY'S 2 P.M. REPORTS.

	Bar.	Dry.	Wet.	Wind.	Wea.	Sea.		Bar.	Dry.	Wet.	Wind.	Wea.	Sea.
Skudesnaes ...	29.24	29	28	h NW 8	s	4	Holyhead ...	29.67	38	37	N 1	csp	1
Sumburgh Head ...	29.28	29	28	N 6	s	4	Valencia ...	29.77	39	38	NNE 4	b	4
Stornoway ...	29.69	28	28	W 5	ohg	4	Scilly ...	29.52	46	44	NNE 6	o	5
Aberdeen ...	29.87	26	24	NW 4	b p	3	Dungeness ...	29.61	43	42	SEW 3	c	1
Shields ...	29.63	33	31	NNE 1	b	4	London ...	29.64	35	34	Z 0	fg	*
Ardrossan ...	29.69	33	32	NNE 3	b	2	Yarmouth ...	29.65	35	34	NW 1	evn	5
Malin Head ...	29.73	33	32	N 3	b	3	Jersey ...	29.50	43	42	ESE 3	n	3
Mullaghmore ...	29.77	34	33	NNE 5	cspg	4	Rochefort ...	29.60	48	44	SE 7	bc	2
Belmullet ...	29.83	35	34	N 5	csp	*							

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

Yesterday morning's reports showed that pressure varied from about 30.1 ins. over South-eastern Europe, and from about 29.7 ins. in the west of Ireland to rather below 29.5 ins. in a small depression lying at the mouth of the Channel, and to about 29.0 ins. in a large system lying over Scandinavia. Thus, while SE winds, rain and some thunder prevailed over France, and SW to W winds and showers over Germany and the Baltic, the winds over Northern Europe and the northern parts of our Islands were NE to NW, blowing a gale from the former quarter at Haparanda, and were accompanied by local snow showers. Temperature had again fallen except in the far south, and ranged from between 50° and 62° over the greater part of the Mediterranean, and from a little above 50° in Portugal and the southwest of France to below the freezing point over nearly the whole of N and NW Europe, and to below zero (Fah.) in Finland. The highest individual readings were 63° at Algiers, 62° at Alicante, 61° at Malta and Cagliari, 60° at Genoa and Palermo, the lowest -10° F at Haparanda +6° F at Uleaborg, 19° at Bodø, 26° at Stornoway and Cambridge, 28° at Aberdeen, Shields and Loughborough. There was therefore a difference of more than 70° between the temperature at Malta and that at Haparanda.

During the day the small depression in the southwest advanced rapidly up the Channel, and brought a good deal of wet snow to the southern stations, after which the sky cleared and the frost over England became harder.

### 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 19<sup>th</sup> December 1886.  
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 8 A.M. and Sea Level.	Difference from 8 A.M. yesterday.	SHADE TEMP.		Difference from 8 A.M. yesterday.	WIND.		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 ..	29.25	18	NE	6	0	29.40	+ .35	14	13	0	NE	6	0	*	19	9	0.08		
Hernösand ...	29.20	19	N	2	0	29.39	+ .39	16	15	—	N	6	0	*	44	14	—		
Stockholm ...	29.20	14	NW	2	0	29.34	+ .10	18	17	—	NW	4	0	*	30	14	0.04		
Wisby ...	29.19	35	W	1	0	29.38	+ .02	26	25	—	WNW	1	0	*	27	?	—		
Bodö ...	29.49	20	ENE	2	0	29.60	+ .25	10	10	—	ENE	4	0	*	28	?	0.16		
Christiansund...	29.39	27	NE	3	0	29.53	+ .25	15	24	—	WNW	1	0	*	20	21	0.16		
Skudesnaes ...	29.43	27	N.	2	0	29.60	+ .32	24	20	+	NW	6	0	*	36	21	—		
Christiania Fjord (Fjord)	29.33	26	NNW	2	0	29.56	+ .28	26	24	—	NNW	2	0	*	27	?	—		
Skagen (The Scaw)	29.32	20	NE	2	0	29.53	+ .23	29	28	—	E	2	0	*	?	27	0.04		
Fanö ...	29.47	24	SW	6	5	29.65	+ .21	26	26	—	Z	0	0	*	36	24	0.04		
Sumburgh Head	29.60	28	N	2	0	29.59	+ .19	32	32	—	NE	1	0	*	36	26	0.12		
Stornoway ...	29.73	31	N	5	5	29.82	+ .20	29	29	—	NW	4	0	*	35	24	0.70		
Wick ...	29.66	34	NE	6	0	29.60	+ .09	29	28	—	W	5	0	*	27	21	0.20		
Nairn ...	29.64	32	Z	0	5	29.75	+ .23	25	25	—	W	1	0	*	35	22	0.12		
Aberdeen...	29.59	33	NW	4	0	29.72	+ .27	26	25	—	NW	2	0	*	34	25	0.59		
Leith ...	29.64	31	W	1	0	29.73	+ .21	32	32	+	NNE	1	0	*	37	26	—		
Shields ...	29.61	30	WNW	1	0	29.68	+ .17	27	27	—	Z	0	0	*	35	25	—		
Spurn Head ...	29.61	33	W	5	0	29.73	+ .16	31	31	+	WSW	3	0	*	35	26	—		
York ...	29.65	30	NNW	1	0	29.74	+ .16	28	28	+	S	1	0	*	35	24	—		
Loughborough	29.69	31	WSW	2	0	29.78	+ .13	21	21	—	ESE	1	0	*	30	21	—		
Ardrossan ...	29.66	36	NNW	3	0	29.75	+ .17	30	30	—	NNE	1	0	*	38	26	—		
Malin Head ...	29.71	36	NNW	4	0	29.80	+ .07	34	32	—	NNE	4	0	*	38	32	0.03		
Mullaghmore ...	29.85	31	NE	4	0	29.83	+ .04	33	32	+	NNE	5	0	*	32	29	0.48		
Belmullet ...	29.90	34	N	5	0	29.91	+ .05	35	35	—	N	6	0	*	37	32	0.10		
Donaghadee ...	29.76	33	N	5	5	29.74	+ .10	36	35	+	NE	5	0	*	39	30	0.05		
Barrow-in-Furness	29.67	33	NNE	3	0	29.68	+ .10	34	33	0	N	2	0	*	37	32	0.01		
Liverpool (Bidston)	29.70	37	WNW	2	0	29.72	+ .08	32	30	+	SSW	3	0	*	38	29	0.20		
Holyhead ...	29.74	40	NW	5	0	29.72	+ .04	35	35	—	WSW	3	0	*	40	36	0.04		
Parsonstown ...	29.87	29	Z	0	0	29.85	+ .00	29	29	+	Z	0	0	*	32	23	0.08		
Valencia ...	29.95	34	N	2	0	29.93	+ .02	33	32	—	ENE	1	0	*	34	31	0.35		
Roche's Point...	29.91	33	NNW	3	0	29.87	+ .01	32	31	+	NNW	3	0	*	37	28	—		
Pembroke ...	29.82	37	NW	3	0	29.81	+ .04	37	35	+	NW	2	0	*	38	31	—		
Seilly ...	29.88	40	NNW	4	0	29.84	+ .08	36	34	—	N	3	0	*	41	35	0.08		
Prawle Point ...	29.86	32	NNW	2	0	29.85	+ .07	31	30	+	NNW	2	0	*	42	29	—		
Jersey ...	29.83	36	N	1	0	29.82	+ .11	36	35	—	ENE	2	0	*	39	35	0.01		
Hurst Castle ...	29.80	35	WNW	4	0	29.81	+ .08	30	30	0	NNW	1	0	*	37	26	—		
Dungeness ...	29.74	32	NW	2	0	29.78	+ .16	27	26	—	NW	2	0	*	36	25	—		
London ...	29.74	29	NW	1	0	29.80	+ .11	24	23	—	SW	1	0	*	35	23	—		
Oxford ...	29.79	29	SW	2	0	29.82	+ .10	25	25	—	SW	1	0	*	35	25	—		
Cambridge ...	29.72	30	WSW	1	0	29.81	+ .15	23	22	0	W	1	0	*	34	22	—		
Yarmouth ...	29.65	30	W	4	0	29.76	+ .18	25	24	—	W	3	0	*	32	24	—		
Cuxhaven ...	29.45	32	WSW	6	5	29.72	+ .29	32	32	—	SW	1	0	*	33	31	0.12		
Berlin ...	29.60	36	WNW	3	0	29.77	+ .33	33	30	—	SW	1	0	*	45	32	?		
Wiesbaden ...	*	*	*	*	*	29.86	+ .39	35	33	—	NW	2	0	*	48	34	0.04		
Munich ...	29.70	43	W	2	0	29.78	+ .07	33	33	+	NE	3	0	*	52	32	0.12		
The Helder ...	29.58	36	WSW	5	0	29.72	+ .26	37	36	+	NNW	1	0	*	39	32	0.16		
Brussels ...	*	*	*	*	*	29.81	+ .27	32	32	—	SW	3	0	*	37	30	0.04		
Cape Gris Nez...	29.75	35	NNW	1	0	29.79	+ .04	37	?	?	SW	1	0	*	37	32	—		
Paris ...	29.81	35	W	3	0	29.85	+ .20	32	31	—	WSW	1	0	*	43	32	0.04		
Brest ...	29.88	35	NE	3	0	29.87	+ .16	35	33	—	NE	4	0	*	43	32	0.08		
Lorient ...	29.85	39	NNE	4	0	29.88	+ .17	38	33	—	NE	4	0	*	43	36	—		
Rocheport ...	29.78	47	NNE	5	0	29.84	+ .12	37	37	—	ENE	3	0	*	52	32	0.71		
Belfort ...	29.68	43	NE	1	0	29.79	+ .09	31	30	—	NE	3	0	*	48	30	0.63		
Lyons ...	29.71	55	S	5	0	29.70	+ .04	34	30	+	S	5	0	*	57	32	—		
Nice ...	29.90	55	W	1	0	29.91	+ .01	50	49	+	E	4	0	*	57	46	0.08		
Perpignan ...	29.78	48	Z	0	0	29.80	+ .04	45	45	—	SW	3	0	*	56	44	—		
Biarritz ...	29.67	63	S	4	0	29.65	+ .00	64	52	+	S	5	0	*	64	50	0.04		
Corunna ...	*	*	*	*	*	29.63	+ .28	48	47	—	NE	9	0	*	54	46	0.98		
Lisbon ...	29.57	60	SE	5	0	29.40	+ .28	54	50	—	ESE	7	0	*	64	54	0.16		
PENIN. ISLA.																			

For Explanation of Columns, see p. 4.



# WEATHER CHARTS

for 8 a.m. on

Sunday

19<sup>th</sup> December

1880.

## 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.

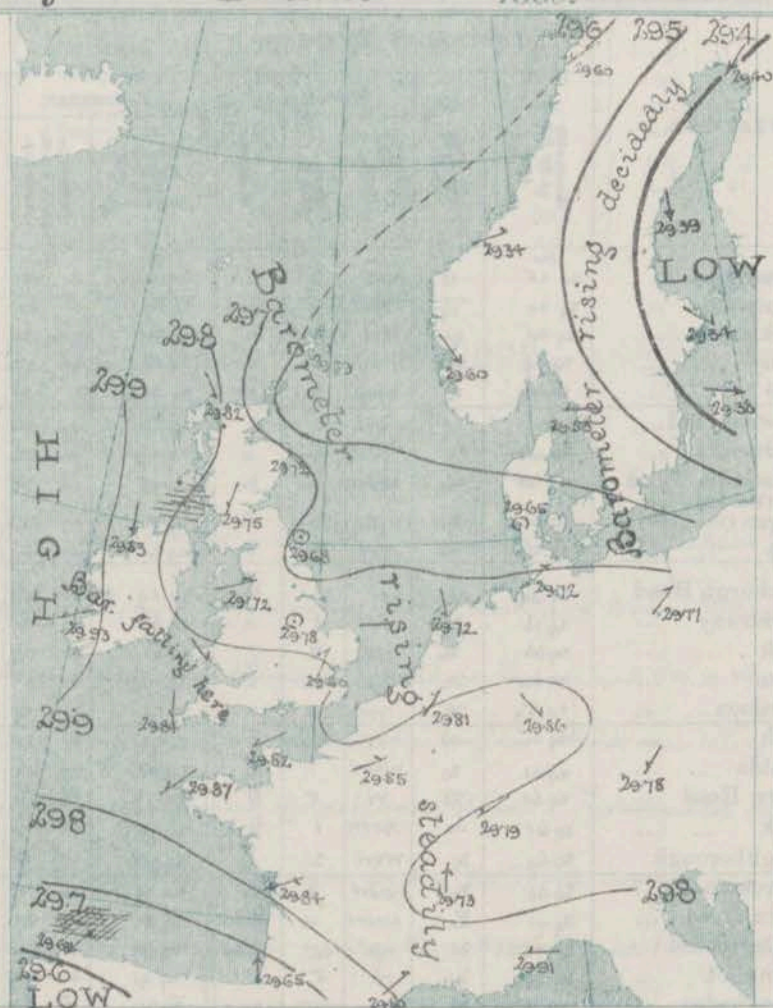
**Sea Disturbance** — where considerable is shown thus

▨ = Rough. ▨ = High.

## MEAN HEIGHT of the BAROMETER

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

STATIONS.	MEAN READINGS.
Sunbury Head	29.680
Stornoway	29.701
Wick	29.713
Nairn	29.711
Aberdeen	29.750
Leith	29.800
Shields	29.836
York	29.877
Ardrossan	29.810
Donaghadee	29.882
Holyhead	29.858
Liverpool	29.882
Valencia	29.879
Roche's Point	29.889
Pembroke	29.897
Scilly	29.943
Hurst Castle	29.938
Dover	29.912
LONDON	29.934
Oxford	29.937
Cambridge	29.926
Yarmouth	29.902





# GENERAL SITUATION AT 8 A.M.

PRESSURE	{ Highest, 29.9 in. and upwards, off the west of Ireland. Lowest, 29.4 in. and less in Sweden and also in the neighbourhood of London.
TEMPERATURE	{ Highest 54° at Lyons and Lisbon, 50° at Nice, 48° at Comma, 45° at Perpignan, and 36° at Seilly. Lowest, 13° at Bodo, 14° at Haparanda, 16° at Helsingfors and 18° at Stockholm. Sharp frost occurred last night in nearly all parts of Western Europe.
WIND	{ Moderate to fresh from NW. on our northern coast, and also on the eastern shores of the North Sea. N. in the west and south of our Islands, variable over Central England. Strong winds or gales from E. or NE. prevailing over Spain and the southern part of the Bay of Biscay.
WEATHER	{ Fine at our southern and eastern stations, but cloudy elsewhere, with snow or hail showers on our extreme north and northwest coasts, and rain at Munich and Belfast. Thunder and lightning were reported last night in many parts of the Kingdom.
SEA	{ Rather rough at Malin Head, but slight or smooth elsewhere.

## PROBABLE CHANGES IN SYSTEM NOW PREVALENT

Since yesterday morning the barometer has risen generally, but in the course of the past night a shallow depression has formed off the north-east of Scotland and another over the Irish Sea, in each of which localities the barometer is falling slightly. The highest pressures are still found to the westward of our Islands.

## FORECASTS

For the 24 hours ending at NOON on 20<sup>th</sup> Dec 1886.

### 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
- x 10 { IRELAND SOUTH

### WARNINGS

### FORECASTS.

NONE ISSUED

The N.Cone has been hoisted this morning in district 9, and part of 6. An asterisk is inserted against those districts in which the signals are now flying.



# YESTERDAY'S 2 P.M. REPORTS.

	Bar.	Dry.	Wet.	Wind.	Wea.	Sea.		Bar.	Dry.	Wet.	Wind.	Wea.	Sea.
Skudesnaes ...	29.34	28	24	N 2	c	3	Holyhead ...	29.70	35	37	WNW 4	chop	4
Sumburgh Head ...	29.55	36	30	NE 1	s	4	Valencia ...	29.94	36	25	NE 1	bcsp	7
Stornoway ...	29.68	32	32	N 4	sp	3	Scilly ...	29.83	40	34	N 5	c	4
Aberdeen ...	29.51	33	32	NW 4	osp	2	Dungeness ...	29.70	34	30	NW 3	bc	2
Shields ...	29.35	35	34	WNW 2	bc	3	London ...	29.70	35	32	N 2	bm	*
Ardrossan ...	29.69	38	37	NNW 3	bc	2	Yarmouth ...	29.61	31	30	WNW 3	b	3
Malin Head ...	29.72	35	33	NNW 3	o	4	Jersey ...	29.78	39	33	NNE 2	bc	2
Mullaghmore ...	29.82	34	28	NE 2	c	2	Rochefort ...	29.75	49	49	E 3	r	2
Belmullet ...	29.87	37	35	NNE 5	o	*							

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

Yesterday morning's reports showed that pressure varied from 30.1 ins. and upwards over the SE-half of the Mediterranean and the Balkan Peninsula, and from 29.9 ins. in the extreme southwest of Ireland to about 29.1 ins. over the Gulf of Bothnia and to 29.4 ins. over the Netherlands. Thus, while SW winds and ~~some~~ showery weather prevailed over France and the shore of the Baltic, NE to NW winds were reported over the British Isles and North Sea, with cold dry weather and very light airs and cold dry weather over Poland and Hungary. Temperature was still highest over the southwest of France and the southern parts of the Mediterranean, where many of the readings were about 60° while it was lowest over Finland, Scandinavia, and the British Isles. The highest individual readings were 64° at Biarritz, 63° at Palermo, 60° at Ferrara, 59° at Malta, Brindisi, and Rome and 55° at Croisette, the lowest 14° at Naparanda, 17° at Hemösand, 21° at Ålesund, and 23° in London.

During the day the barometer rose a little in the north-west and very cold winds set in over the United Kingdom, with dry snow showers locally.

### EXPLANATION OF COLUMNS GIVEN ON PAGE 1.

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

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

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# DAILY WEATHER REPORT.

for Monday 20<sup>th</sup> December 1886.

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

STATIONS.		+ YESTERDAY EVENING.					8 A.M. TO DAY.										PAST 24 HOURS.		
		Barometer at 32° F. and Sea Level.	Temp. in Shade.	WIND.		Weather.	BAROMETER.		SHADE TEMP.			WIND.		Sea. (0 to 9.)	SHADE TEMP.		Amount of Rainfall.		
				Dir.	Force. (0 to 12.)		Reading at 32° F. and Sea Level.	Difference from 8 a.m. yesterday.	Dry.	Wet.	Difference from 8 a.m. yesterday.	Dir.	Force. (0 to 12.)		Max.	Min.			
		Ina.	°				Ina.	Ina.	°	°	°					°	°	Ina.	
Haparanda ..		29.67	-10	Z	0	b	29.71	+31	-5	-5	-19	NW	2	b	*	19	-11	-	
Hernösand ...		29.82	12	N	2	b	30.00	+61	-5	-5	-21	Z	0	b	*	19	28	-	
Stockholm ...		29.76	18	NW	2	0	29.92	+58	15	15	-3	NW	2	0	*	19	12	0.04	
Wisby ...		29.71	26	NW	6	S	29.87	+49	24	23	-2	NW	6	0	*	32	23	-	
Bodö ...		29.76	11	ESE	4	b	29.75	+15	19	18	+6	ESE	2	c	1	19	16	-	
Christiansund...		29.78	29	SW	4	0	29.91	+37	29	28	+3	NE	2	b	4	?	25	0.04	
Skudesnaes ...		29.87	28	NNE	1	bc	30.00	+40	30	30	-4	Z	0	0	3	34	28	-	
Christiania Fjord (Fjorder)		29.84	24	NW	2	b	30.02	+46	23	23	-3	NW	4	b	2	27	16	-	
Skagen (The Seaw)		29.88	29	Z	0	b	30.02	+49	23	23	-6	NW	2	c	5	?	16	-	
Fanö ...		29.89	24	ESE	4	b	29.98	+33	26	26	0	E	4	b	*	36	23	-	
Sumburgh Head		29.90	32	NNE	1	c	30.05	+46	28	26	-4	Z	0	c	1	37	24	0.01	
Stornoway ...		29.97	30	N	4	bc	30.13	+31	24	24	-5	NW	3	bc	2	34	23	0.18	
Wick ...		29.89	32	NE	3	0	30.15	+55	19	18	-10	N	1	b	1	32	16	0.02	
Nairn ...		29.91	21	Z	0	bc	30.12	+37	25	23	0	Z	0	b	1	31	19	0.15	
Aberdeen...		29.86	15	NW	1	b	30.12	+40	18	17	-8	N	1	b	1	26	12	-	
Leith ...		29.85	28	NW	1	b	30.13	+40	26	26	-6	N	1	bm	*	32	23	-	
Shields ...		29.75	32	Z	0	cm	30.05	+37	36	35	+9	N	1	chp	2	39	25	0.17	
Spurn Head ...		29.76	32	SSW	1	b	29.95	+22	32	31	+1	NW	4	bcsp	3	36	28	0.04	
York ...		29.77	30	S	1	bc	30.04	+30	30	30	+2	N	1	b	*	33	23	-	
Loughborough		29.78	27	SSE	1	b	30.03	+25	24	24	+3	NW	1	bm	*	37	21	-	
Ardrossan ...		29.83	28	Z	0	b	30.15	+40	25	25	-5	NE	1	bc	0	34	21	-	
Malin Head ...		29.85	38	N	6	chp	30.18	+38	36	36	+2	NNE	2	chp	2	39	31	0.03	
Mullaghmore ...		29.93	34	NW	6	S	30.18	+35	25	25	-8	NW	1	b	2	39	28	0.03	
Belmullet ...		30.02	36	N	5	chp	30.22	+31	35	34	0	SW	2	b	*	38	31	0.31	
Donaghadee ...		29.83	31	N	4	b	30.15	+41	37	34	+1	NE	5	b	3	38	28	-	
Barrow-in-Furness		29.79	31	N	1	bc	30.08	+42	31	30	-3	N	2	bc	*	34	27	-	
Liverpool (Bidston)		29.78	31	N	1	0	30.08	+36	29	27	-3	NNE	1	b	2	35	26	0.04	
Holyhead ...		29.79	38	N	5	e	30.09	+37	38	37	+3	NNE	4	b	3	39	34	0.05	
Parsonstown ...		29.94	21	Z	0	b	30.23	+38	14	14	-15	Z	0	b	*	30	14	0.01	
Valencia ...		30.00	31	NNE	1	bc	30.23	+30	34	33	+1	NNE	1	bc	1	36	29	0.09	
Roche's Point...		29.90	32	NW	4	b	30.16	+29	32	31	0	N	3	b	3	37	29	-	
Pembroke ...		29.79	32	NE	2	b	30.07	+26	31	28	-6	NE	2	b	1	37	30	0.09	
Seilly ...		29.75	40	N	6	e	30.08	+16	41	36	+5	NNE	5	chp	4	41	32	0.36	
Prawle Point ...		29.79	31	N	2	bc	30.00	+15	28	27	-3	N	1	b	1	40	26	-	
Jersey ...		29.76	35	NW	1	bc	29.92	+10	33	32	-3	ESE	1	bm	1	40	32	0.09	
Hurst Castle ...		29.78	35	E	1	bm	29.98	+17	27	26	-3	NNE	1	bm	0	37	24	-	
Dungeness ...		29.75	30	N	1	b	29.88	+10	26	26	-1	N	2	m	1	36	24	-	
London ...		29.79	27	Z	0	f	29.97	+17	21	20	-3	N	1	fg	*	33	21	-	
Oxford ...		29.82	25	Z	0	b	30.03	+21	26	26	+1	NW	1	fg	*	37	20	-	
Cambridge ...		29.84	39	NW	2	b	29.95	+14	23	23	0	NW	1	b	*	37	18	-	
Yarmouth ...		29.76	30	N	1	bm	29.90	+14	34	32	+9	NW	2	bcv	3	34	26	0.05	
Cuxhaven ...		29.81	32	SW	1	f	29.93	+21	32	32	0	E	2	f	*	32	30	-	
Berlin ...		29.88	33	Z	0	0	29.82	+05	31	30	-2	E	6	S	*	36	30	-	
Wiesbaden ...		*	*	*	*	*	29.66	-20	32	31	-3	NE	1	S	*	37	35	0.35	
Munich ...		29.63	36	E	1	0	29.57	-21	34	34	+1	NE	1	f	*	34	32	0.04	
The Helder ...		29.78	34	N	1	b	29.91	+19	?	33	?	ESE	?	?	?	?	?	0.12	
Brussels ...		*	*	*	*	*	29.82	+01	30	30	-2	NNE	1	0	*	35	28	-	
Cape Gris Nez...		*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	-	
Paris ...		29.79	30	NNE	1	S	29.81	-04	32	30	0	N	3	0	*	37	28	0.08	
Brest ...		29.78	33	NE	3	*	29.91	+04	32	29	-3	NNE	3	0	1	41	30	0.12	
Lorient ...		29.78	38	NE	1	b	29.91	+03	30	30	-8	N	4	m	2	41	28	-	
Rochefort ...		29.82	32	NE	7	c	29.80	-04	32	31	-5	NNE	7	cs	2	43	27	-	
Belfort ...		29.70	31	NE	1	0	29.39	-20	31	31	0	NE	1	S	*	31	30	0.08	
Lyons ...		29.57	57	SSW	5	0	29.63	-10	33	32	-21	NW	1	N	*	38	30	0.12	
Nice ...		29.84	53	Z	0	N	29.69	-22	31	30	+1	E	1	g	4	38	35	0.08	
Perpignan ...		29.59	48	S	1	b	29.61	-19	45	44	0	N	3	bc	*	49	39	-	
Biarritz ...		29.65	47	NNE	5	0	29.81	+16	35	?	-29	E	4	S	2	?	35	0.24	
Corunna ...		*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	-	
Lisbon ...		29.47	59	SSW	7	0	29.66	+26	50	55	+2	SSW	5	0	5	61	55	0.75	

For Explanation of Columns, see p. 4.



# WEATHER CHARTS

for 8 a.m. on Monday, 20<sup>th</sup> December, 1886.

## 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.

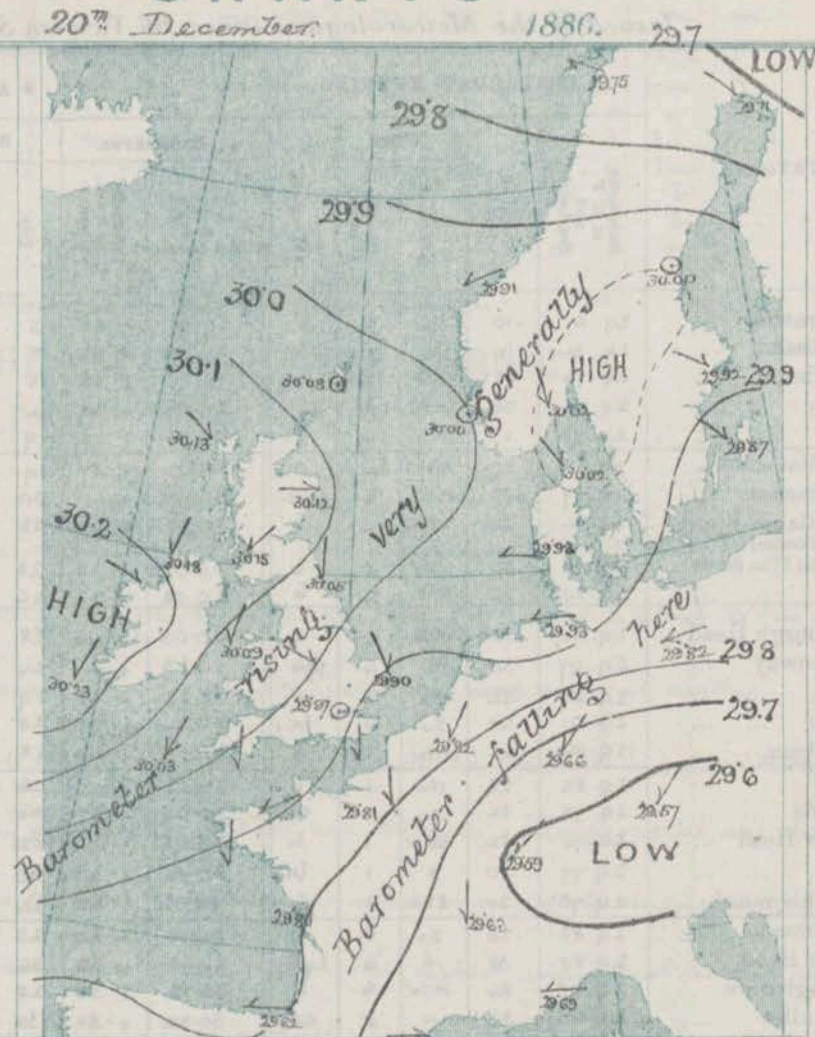
**Sea Disturbance** — where considerable is shown thus

■ = Rough. ■ = High.

## MEAN HEIGHT of the BAROMETER

at 8 a.m. for the month of December.  
During the 10 Years 1871-1880.

STATIONS.	MEAN READINGS.
	in.
Sumburgh Head	29.680
Stornoway	29.701
Wick	29.713
Nairn	29.741
Aberdeen	29.750
Leith	29.800
Shields	29.836
York	29.877
Ardrossan	29.810
Donaghadee	29.832
Holyhead	29.858
Liverpool	29.882
Valencia	29.879
Roche's Point	29.889
Pembroke	29.897
Seilly	29.943
Hurst Castle	29.968
Dover	29.942
LONDON	29.934
Oxford	29.937
Cambridge	29.926
Yarmouth	29.902



## 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.

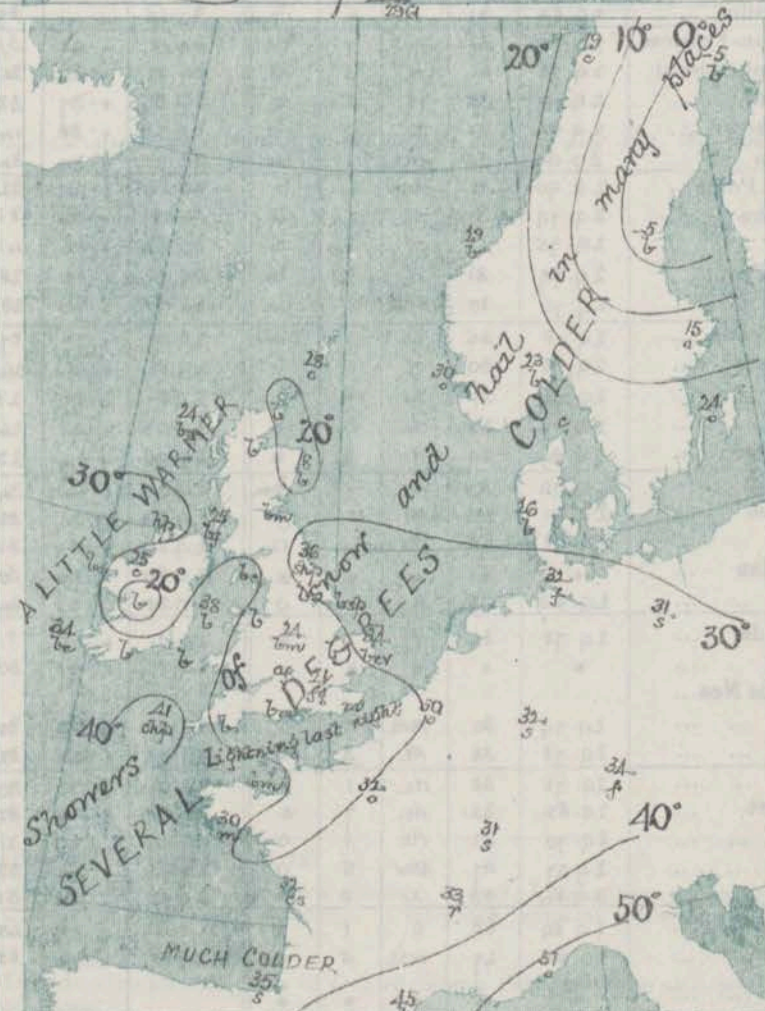
**Rainfall** — A dotted line separates the districts in which rain has fallen from those where there has been none. Falls of 0.5 in. or more, are quoted in figures.

## MEANS OF TEMPERATURE IN SHADE. AND RAINFALL.

for the month of December.

STATIONS	TEMPERATURE				RAINFALL (Inches)
	Daily Max.	Daily Min.	Air & Soil Dec.	Wind	
Sumburgh Head	42.0	34.5	39.0	37.6	4.33
Stornoway	41.5	33.5	38.9	37.8	5.60
Wick	42.0	32.1	37.8	36.4	3.18
Nairn	41.5	32.8	38.9	35.4	2.08
Aberdeen	41.8	32.9	36.9	35.3	3.34
Leith	44.3	33.6	38.4	37.0	2.01
Shields	42.5	34.3	39.2	36.9	2.74
York	42.5	31.9	36.2	35.4	2.45
Ardrossan	47.0	36.1	40.1	38.3	4.04
Donaghadee	46.7	36.1	40.1	39.1	2.84
Holyhead	46.8	39.6	42.9	41.3	3.84
Liverpool	43.6	35.7	39.1	37.4	2.70
Valencia	50.0	40.0	44.7	41.8	5.82
Roche's Point	47.7	39.3	42.9	41.4	4.74
Pembroke	47.1	40.4	43.7	42.6	4.06
Seilly	49.8	43.9	47.2	45.3	4.10
Hurst Castle	45.5	36.5	40.6	39.9	2.84
Dover	44.2	36.5	40.0	38.8	3.20
LONDON	44.5	33.9	38.1	37.1	2.14
Oxford	43.4	33.6	37.3	36.6	2.13
Cambridge	43.3	31.8	36.3	35.6	1.99
Yarmouth	42.2	33.8	37.9	37.2	2.95

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 the north of Ireland. Lowest, 29.6 ins. and less over Germany and the east of France.
TEMPERATURE	Highest, 56° at Lisbon, 51° at Nice, 45° at Perpignan, and 41° at Seville. Lowest, -5° at Haparanda and Årvidsund, 14° at Larnaca, 15° at Stockholm and 18° at Aberdeen. Hard frost occurred last night over the United Kingdom, the lowest readings being 12° at Aberdeen, 14° at Larnaca, and 16° at Wick.
WIND	Light NW. in our north and east coasts as well as in the south of Scandinavia. Light or moderate from N. or NE. in most other localities.
WEATHER	Fine over the greater part of our islands, but snow showers falling in the east of England. Snow also reported over Germany and the south-west of France and rain at Lyons. During yesterday snow showers fell in most parts of the Kingdom, and lightning was seen in the south at night.
SEA	Moderate at Seville, but slight or smooth elsewhere.

## PROBABLE CHANGES IN SYSTEM NOW PREVALENT

The shallow depression which lay yesterday morning off the north-east of Scotland and over the Irish Sea have dispersed, the barometer has risen generally, and an anticyclone in which readings are above 30.2 ins. has appeared over Ireland.

The high pressure system seems likely to extend eastward, and fair frosty weather will probably in most places.

## FORECASTS

For the 24 hours ending at NOON on 21<sup>st</sup> DEC<sup>r</sup> 1886.

DISTRICTS.	FORECASTS.	DISTRICTS.	FORECASTS.
0 { SCOTLAND NORTH	NW <sup>2</sup> winds, light; fair generally, but snow showers locally.	6 { SCOTLAND WEST	N winds, light or moderate; fair generally but local fogs.
1 { SCOTLAND EAST	— D° ——— D° ——— D° ———	7 { ENGLAND N.W.	— D° ——— D° ——— D° ———
2 { ENGLAND N.E.	N <sup>2</sup> winds, light; changeable, some snow showers	8 { ENGLAND S.W.	NE <sup>3</sup> winds, light or moderate; fair generally
3 { ENGLAND EAST	Same as No 5	9 { IRELAND NORTH	Same as No 0
4 { MIDLAND COUNTIES	Same as No 5	10 { IRELAND SOUTH	Same as No 8.
5 { ENGLAND SOUTH	NE <sup>2</sup> winds, light; fair generally, but local fogs, and possibly some snow showers.	WARNINGS	
		The north cone has been lowered this morning in district 9 and part of 6.	



YESTERDAY'S 2 P.M. REPORTS.

	Bar.	Dry.	Wet.	Wind.	Wes.	Sea.		Bar.	Dry.	Wet.	Wind.	Wes.	Sea.
Skudesnaes ...	29.76	28	26	NNE 3	C	3	Holyhead ...						
Sumburgh Head ...							Valencia ...						
Stornoway ...							Scilly ...						
Aberdeen ...							Dungeness ...						
Shields ...							London ...						*
Ardrossan ...							Yarmouth ...						
Malin Head ...							Jersey ...						
Mullaghmore ...							Rochefort ...	29.75	37	35	NE 8	0	3
Belmullet ...													

GENERAL REMARKS ON THE WEATHER OVER EUROPE

DURING THE PAST 24 HOURS.

Yesterday morning's report showed a continuation of the highest pressures, exceeding 30.1 ins over south-eastern Europe, and 29.9 in the south-west of Ireland, while the lowest (about 29.1 ins) were reported from the Gulf of Finland. The small depression over the Netherlands had filled up. The SW winds over France and Germany had consequently lulled and the weather improved, while cold NE<sup>ly</sup> and N<sup>ly</sup> winds, with local snow showers still prevailed over Scandinavia, the North Sea and the British Isles. Temperature remained very low over the north-western half of Europe and had fallen rapidly over the western parts of North Germany also. It was still highest over the Mediterranean, the extreme south of France and the coast of Portugal, and lowest over Finland and the British Isles. The highest individual readings were 64° at Biarritz, 60° at Malta, Palermo and Sesima, 59° at Brindisi, 58° at Livourne, Alicante and Langunaire; the lowest 13° at Nodö, 14° at Haparanda, 16° at Herösand, 18° at Uleaborg, 19° at Kuopio, 21° at Loughborough, 23° in London and 31° at Neu Fahrwasser. In Poland and Hungary the thermometer had risen.

During the day the thermometer rose all over the British Islands with a further fall of temperature, thick fog set in over London, and lightning was seen at several southern stations.

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

FROM THE 12<sup>TH</sup> TO THE 18<sup>TH</sup> DECEMBER 1886.

The weather of the past week has again been very unsettled. Rain or sleet has fallen frequently over England and showers of snow have been experienced in Scotland nearly every day.

During the greater part of the week pressure has been highest over the Iberian peninsula, while some depressions—large, but mostly shallow—have passed across our islands. On Sunday, however, a rather deep depression lay over the North Sea, and fresh gales from the W<sup>d</sup> were experienced over the English Channel. The other depressions of note were:—

1. A small disturbance which advanced eastwards up the Channel on Monday evening occasioning heavy rain at many of our southern stations.
2. A somewhat larger system which appeared over Ireland next day and which caused E<sup>ly</sup> gales on our north-western coasts.
3. An elongated depression which advanced over southern England from the south-westward on Tuesday night and which subsequently moved north-eastwards to Scandinavia.
4. A small shallow disturbance which moved eastwards over the north of France on Friday evening and which occasioned wet snow over the southern parts of the Kingdom.

In the rear of the last mentioned system, an area of high-pressure began to spread over us from the westward and the weather which had previously been somewhat mild for the time of year, became much colder on Tuesday night sharp frost occurred over the greater part of the Kingdom, and during the succeeding twenty-four hours the cold became more intense, especially over England.

EXPLANATION OF COLUMNS GIVEN ON PAGE 1.

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

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

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

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



# DAILY WEATHER REPORT.

for Tuesday 21<sup>st</sup> December 1886.

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

STATIONS.		+ YESTERDAY EVENING.					8 A.M. TO DAY.										PAST 24 HOURS.		
		Barometer at 32° F. and Sea Level.	Temp. in Shade.	WIND.		Weather.	BAROMETER.		SHADE TEMP.			WIND.		Sea. (0 to 9.)	SHADE TEMP.		Amount of Rainfall.		
				Dirac.	Force. (0 to 12.)		Reading at 32° F. and Sea Level.	Difference from 8 a.m. yesterday.	Dry.	Wet.	Difference from 8 a.m. yesterday.	Dirac.	Force. (0 to 12.)		Weather.	Max.		Min.	
		Inch.	°				Inch.	Inch.	°	°	°					°	°	Inch.	
SCANDINAVIA.	Haparanda †	29.71	12	NW	2	c	29.82	+1.1	3	2	+8	2	0	b	*	12	-17	-	
	Hernösand †	30.10	14	2	0	b	30.10	+1.0	15	14	+20	hsw	2	bc	*	?	-6	-	
	Stockholm	30.19	8	NW	2	b	30.30	+1.38	8	7	-7	W	2	bc	*	21	+8	-	
	Wisby	30.06	26	NNE	4	0	30.21	+1.34	19	18	-5	E	4	b	*	34	?	0.04	
	Bodö	29.76	32	W	6	S	29.75	-0.01	37	35	+18	hsw	4	0	2	?	10	0.32	
	Christiansund	30.06	31	SW	6	bc	30.06	+1.5	33	29	+4	SW	4	b	5	34	28	-	
	Skudesnaes	30.19	30	2	0	b	30.26	+1.26	32	31	+2	SE	6	0	4	?	30	-	
	Christiania Fjord (Færder)	30.22	30	NW	4	n	30.34	+1.32	18	18	-5	NW	2	f	1	23	14	-	
	Skagen (The Scaw)	30.16	26	NW	3	c	30.30	+1.28	29	28	+6	SE	1	c	1	?	23	-	
	Fanö	30.21	21	E	1	b	30.34	+1.36	18	18	-8	ESE	1	b	*	27	18	-	
BRITISH ISLANDS.	Sumburgh Head	30.09	33	hsw	1	bc	29.98	-0.07	38	35	+10	S	3	c	3	38	26	-	
	Sornoway	30.13	32	SSW	3	c	29.86	-0.27	41	41	+17	SSW	5	ng	5	41	22	0.07	
	Wick	30.15	22	2	0	b	29.98	-0.17	37	36	+18	S	5	c	2	39	17	-	
	Nairn	30.17	26	W	1	b	30.03	-0.09	36	34	+11	2	0	c	1	36	18	-	
	Aberdeen	30.20	16	hsw	1	b	30.13	+0.01	28	27	+10	hsw	2	b	1	28	12	-	
	Leith	30.25	28	W	1	m	30.21	+0.08	35	33	+4	W	3	bm	*	35	22	-	
	Shields	30.27	31	NW	1	c	30.29	+0.24	24	24	-12	SW	1	m	2	38	19	-	
	Spurn Head	30.19	35	ESE	1	bc	30.35	+0.40	29	28	-3	NW	2	bm	3	38	28	-	
	York	30.23	28	N	1	b	30.35	+0.31	23	23	-7	SSW	1	f	*	35	19	0.03	
	Loughborough	30.23	31	NW	2	b	30.40	+0.37	17	17	-7	E	1	f	*	35	17	-	
GERMANY.	Ardrossan	30.25	27	NE	1	bc	30.19	+0.04	40	39	+15	S	4	c	3	40	23	-	
	Malin Head	30.24	33	S	3	c	30.07	-0.11	34	34	-2	S	4	c	5	37	31	0.02	
	Mullaghmore	30.28	34	SW	2	cg	30.11	-0.07	38	36	+13	SSW	5	c	5	38	23	-	
	Belmullet	30.23	35	SW	5	c	30.07	-0.15	44	42	+9	SW	6	0	*	44	32	0.20	
	Donaghadee	30.29	27	NW	2	b	30.25	+0.10	30	30	-7	W	3	b	1	37	24	-	
	Barrow-in-Furness	30.24	29	N	2	b	30.29	+0.21	29	29	-2	SE	4	0	*	36	23	-	
	Liverpool (Bidston)	30.27	30	N	1	b	30.34	+0.26	23	21	-6	SE	2	b	3	33	21	-	
	Holyhead	30.26	30	NNE	2	b	30.31	+0.22	37	37	-1	SSW	3	bm	2	40	32	-	
	Parsonstown	30.35	20	2	0	b	30.29	+0.06	27	26	+13	SE	1	bc	*	27	13	-	
	Valencia	30.35	37	NE	1	c	30.27	+0.04	43	40	+9	SSW	4	cu	4	43	32	0.03	
FRANCE & NETHERLANDS.	Roche's Point	30.33	33	N	3	b	30.34	+0.18	31	31	-1	N	3	am	3	38	26	-	
	Pembroke	30.26	35	NE	2	b	30.37	+0.30	34	33	+3	E	2	bc	1	36	30	-	
	Scilly	30.23	40	NE	4	c	30.38	+0.38	41	37	0	SSW	1	c	2	41	35	0.12	
	Prawle Point	30.22	31	NW	1	b	30.43	+0.43	30	29	+2	N	1	b	1	38	27	-	
	Jersey	30.11	38	N	3	bcspn	30.40	+0.48	37	34	+4	NE	1	bm	1	39	32	0.02	
	Hurst Castle	30.17	32	NNE	3	m	30.42	+0.44	26	26	-1	NNE	1	f	1	35	25	-	
	Dungeness	30.05	36	E	6	c	30.34	+0.46	30	30	+4	N	1	f	2	38	24	-	
	London	30.14	33	NE	2	bm	30.40	+0.43	26	24	+5	NW	1	fg	*	34	20	-	
	Oxford	30.26	29	N	1	b	30.42	+0.39	27	27	+1	2	0	of	*	33	26	-	
	Cambridge	30.20	28	N	1	b	30.41	+0.46	26	26	+3	NW	1	m	*	36	22	-	
FINLAND.	Yarmouth	30.13	36	NE	3	c	30.32	+0.42	30	29	-4	NW	2	bm	4	37	28	0.05	
	Cuxhaven	30.05	32	NE	4	b	30.28	+0.35	29	29	-3	NNE	3	b	*	32	27	-	
	Berlin	30.00	29	NE	2	0	30.16	+0.34	32	28	+1	NNE	3	0	*	34	28	*	
	Wiesbaden	*	*	*	*	*	30.05	+0.39	28	26	-4	N	4	S	*	33	28	0.16	
	Munich	29.61	33	W	6	S	29.72	+0.15	27	26	-7	NW	3	S	*	39	27	0.08	
	The Helder	30.15	36	NE	3	b	30.33	+0.42	30	29	?	SE	1	c	1	37	30	-	
	Brussels	*	*	*	*	*	30.29	+0.47	23	23	-7	NE	1	b	*	33	22	0.04	
	Cape Gris Nez	30.07	39	NNE	8	bc	30.30	+0.30	33	32	-?	N	3	S	3	39	30	0.32	
	Paris	29.97	33	N	5	0	30.24	+0.43	27	27	-5	N	7	bc	*	34	27	-	
	Brest	30.19	35	NE	3	b	30.21	+0.50	36	32	+4	NE	3	b	3	41	32	-	
FINLAND.	Lorient	30.17	38	NNE	4	b	30.44	+0.53	37	35	+7	NNE	1	b	2	39	28	-	
	Rochefort	30.12	37	NNE	7	b	30.39	+0.59	35	32	+3	NNE	8	b	2	39	27	-	
	Belfort	29.73	30	S	1	S	29.84	+0.25	26	26	-5	E	1	S	*	31	24	0.16	
	Lyons	29.89	29	NW	4	S	29.94	+0.31	29	27	-4	NW	5	0	*	?	28	0.75	
	Nice	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	
	Perpignan	29.82	37	NW	7	0	30.12	+0.51	38	32	-7	NW	7	0	*	47	34	-	
	Biarritz	30.09	35	E	4	b	30.35	+0.54	34	32	-1	SE	3	S	2	39	30	-	
	Corunna	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	
	Lisbon	29.89	49	NNE	5	b	30.10	+0.44	42	?	-14	NE	8	n	?	59	39	0.24	

For Explanation of Columns, see p. 2. † Received too late for insertion in charts.





## 1886.

(Explanation of Map)

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

$\rightarrow$  = forces above  $W_i$   $\rightarrow$  = forces 8 to  $W_i$   
 $\rightarrow$  = forces 5 to 7  $\rightarrow$  = forces 1 to 4  
 (C) = dead calm.

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

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

A hand-drawn weather map of the British Isles and surrounding regions, showing isobars, isotherms, and weather conditions. The map includes labels for 'LOW' and 'HIGH' pressure systems, 'Bar: falling', 'rising', and 'stagnant' conditions, and various numerical values for pressure and temperature. The map is drawn on a grid with latitude and longitude lines.

**Pressure Systems:**

- LOW:** Located in the North Atlantic and over the British Isles.
- HIGH:** Located over the Azores and the Mediterranean.

**Weather Conditions:**

- Bar: falling:** Indicated in the North Atlantic.
- rising:** Indicated over the British Isles.
- stagnant:** Indicated over the British Isles.

**Isobars (Pressure):**

- 29.7, 29.8, 29.9, 30.0, 30.1, 30.2, 30.3, 30.4, 30.5, 30.6, 30.7, 30.8, 30.9, 31.0, 31.1, 31.2, 31.3, 31.4, 31.5, 31.6, 31.7, 31.8, 31.9, 32.0, 32.1, 32.2, 32.3, 32.4, 32.5, 32.6, 32.7, 32.8, 32.9, 33.0, 33.1, 33.2, 33.3, 33.4, 33.5, 33.6, 33.7, 33.8, 33.9, 34.0, 34.1, 34.2, 34.3, 34.4, 34.5, 34.6, 34.7, 34.8, 34.9, 35.0, 35.1, 35.2, 35.3, 35.4, 35.5, 35.6, 35.7, 35.8, 35.9, 36.0, 36.1, 36.2, 36.3, 36.4, 36.5, 36.6, 36.7, 36.8, 36.9, 37.0, 37.1, 37.2, 37.3, 37.4, 37.5, 37.6, 37.7, 37.8, 37.9, 38.0, 38.1, 38.2, 38.3, 38.4, 38.5, 38.6, 38.7, 38.8, 38.9, 39.0, 39.1, 39.2, 39.3, 39.4, 39.5, 39.6, 39.7, 39.8, 39.9, 40.0, 40.1, 40.2, 40.3, 40.4, 40.5, 40.6, 40.7, 40.8, 40.9, 41.0, 41.1, 41.2, 41.3, 41.4, 41.5, 41.6, 41.7, 41.8, 41.9, 42.0, 42.1, 42.2, 42.3, 42.4, 42.5, 42.6, 42.7, 42.8, 42.9, 43.0, 43.1, 43.2, 43.3, 43.4, 43.5, 43.6, 43.7, 43.8, 43.9, 44.0, 44.1, 44.2, 44.3, 44.4, 44.5, 44.6, 44.7, 44.8, 44.9, 45.0, 45.1, 45.2, 45.3, 45.4, 45.5, 45.6, 45.7, 45.8, 45.9, 46.0, 46.1, 46.2, 46.3, 46.4, 46.5, 46.6, 46.7, 46.8, 46.9, 47.0, 47.1, 47.2, 47.3, 47.4, 47.5, 47.6, 47.7, 47.8, 47.9, 48.0, 48.1, 48.2, 48.3, 48.4, 48.5, 48.6, 48.7, 48.8, 48.9, 49.0, 49.1, 49.2, 49.3, 49.4, 49.5, 49.6, 49.7, 49.8, 49.9, 50.0, 50.1, 50.2, 50.3, 50.4, 50.5, 50.6, 50.7, 50.8, 50.9, 51.0, 51.1, 51.2, 51.3, 51.4, 51.5, 51.6, 51.7, 51.8, 51.9, 52.0, 52.1, 52.2, 52.3, 52.4, 52.5, 52.6, 52.7, 52.8, 52.9, 53.0, 53.1, 53.2, 53.3, 53.4, 53.5, 53.6, 53.7, 53.8, 53.9, 54.0, 54.1, 54.2, 54.3, 54.4, 54.5, 54.6, 54.7, 54.8, 54.9, 55.0, 55.1, 55.2, 55.3, 55.4, 55.5, 55.6, 55.7, 55.8, 55.9, 56.0, 56.1, 56.2, 56.3, 56.4, 56.5, 56.6, 56.7, 56.8, 56.9, 57.0, 57.1, 57.2, 57.3, 57.4, 57.5, 57.6, 57.7, 57.8, 57.9, 58.0, 58.1, 58.2, 58.3, 58.4, 58.5, 58.6, 58.7, 58.8, 58.9, 59.0, 59.1, 59.2, 59.3, 59.4, 59.5, 59.6, 59.7, 59.8, 59.9, 60.0, 60.1, 60.2, 60.3, 60.4, 60.5, 60.6, 60.7, 60.8, 60.9, 61.0, 61.1, 61.2, 61.3, 61.4, 61.5, 61.6, 61.7, 61.8, 61.9, 62.0, 62.1, 62.2, 62.3, 62.4, 62.5, 62.6, 62.7, 62.8, 62.9, 63.0, 63.1, 63.2, 63.3, 63.4, 63.5, 63.6, 63.7, 63.8, 63.9, 64.0, 64.1, 64.2, 64.3, 64.4, 64.5, 64.6, 64.7, 64.8, 64.9, 65.0, 65.1, 65.2, 65.3, 65.4, 65.5, 65.6, 65.7, 65.8, 65.9, 66.0, 66.1, 66.2, 66.3, 66.4, 66.5, 66.6, 66.7, 66.8, 66.9, 67.0, 67.1, 67.2, 67.3, 67.4, 67.5, 67.6, 67.7, 67.8, 67.9, 68.0, 68.1, 68.2, 68.3, 68.4, 68.5, 68.6, 68.7, 68.8, 68.9, 69.0, 69.1, 69.2, 69.3, 69.4, 69.5, 69.6, 69.7, 69.8, 69.9, 70.0, 70.1, 70.2, 70.3, 70.4, 70.5, 70.6, 70.7, 70.8, 70.9, 71.0, 71.1, 71.2, 71.3, 71.4, 71.5, 71.6, 71.7, 71.8, 71.9, 72.0, 72.1, 72.2, 72.3, 72.4, 72.5, 72.6, 72.7, 72.8, 72.9, 73.0, 73.1, 73.2, 73.3, 73.4, 73.5, 73.6, 73.7, 73.8, 73.9, 74.0, 74.1, 74.2, 74.3, 74.4, 74.5, 74.6, 74.7, 74.8, 74.9, 75.0, 75.1, 75.2, 75.3, 75.4, 75.5, 75.6, 75.7, 75.8, 75.9, 76.0, 76.1, 76.2, 76.3, 76.4, 76.5, 76.6, 76.7, 76.8, 76.9, 77.0, 77.1, 77.2, 77.3, 77.4, 77.5, 77.6, 77.7, 77.8, 77.9, 78.0, 78.1, 78.2, 78.3, 78.4, 78.5, 78.6, 78.7, 78.8, 78.9, 79.0, 79.1, 79.2, 79.3, 79.4, 79.5, 79.6, 79.7, 79.8, 79.9, 80.0, 80.1, 80.2, 80.3, 80.4, 80.5, 80.6, 80.7, 80.8, 80.9, 81.0, 81.1, 81.2, 81.3, 81.4, 81.5, 81.6, 81.7, 81.8, 81.9, 82.0, 82.1, 82.2, 82.3, 82.4, 82.5, 82.6, 82.7, 82.8, 82.9, 83.0, 83.1, 83.2, 83.3, 83.4, 83.5, 83.6, 83.7, 83.8, 83.9, 84.0, 84.1, 84.2, 84.3, 84.4, 84.5, 84.6, 84.7, 84.8, 84.9, 85.0, 85.1, 85.2, 85.3, 85.4, 85.5, 85.6, 85.7, 85.8, 85.9, 86.0, 86.1, 86.2, 86.3, 86.4, 86.5, 86.6, 86.7, 86.8, 86.9, 87.0, 87.1, 87.2, 87.3, 87.4, 87.5, 87.6, 87.7, 87.8, 87.9, 88.0, 88.1, 88.2, 88.3, 88.4, 88.5, 88.6, 88.7, 88.8, 88.9, 89.0, 89.1, 89.2, 89.3, 89.4, 89.5, 89.6, 89.7, 89.8, 89.9, 90.0, 90.1, 90.2, 90.3, 90.4, 90.5, 90.6, 90.7, 90.8, 90.9, 91.0, 91.1, 91.2, 91.3, 91.4, 91.5, 91.6, 91.7, 91.8, 91.9, 92.0, 92.1, 92.2, 92.3, 92.4,

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 December.

[illegible]

*Note* - The Temperature means are for the 40 years 1871-80, the Rainfall means are mainly those for the 20 years 1866-85



# GENERAL SITUATION AT 8 A.M.

PRESSURE	Highest, 30.4 in. and upwards over the south of England and northwest of France. Lowest, 29.7 in. over S. Germany, but relatively low 29.9 in. and less off our extreme N. and NW. coasts.
TEMPERATURE	Highest 46° at Belmullet, 43° at Valencia, and 42° at Lisbon. Lowest 8° at Stockholm, 17° at Loughborough, 19° at Llandudno, and 26° at Belfast. Hard frost again occurred last night over the greater part of the Kingdom.
WIND	Freshening from the S.W. or S.W. over Ireland and Scotland. Light from N. on our E. and S. coast; strong from the same quarter over the greater part of France. Fresh to strong from NW. in the south of France.
WEATHER	Fine over the greater part of Western Europe, but thick fog prevailing over England, snow in Germany and rain at Stornoway. Snow showers fell yesterday in many parts of the Kingdom.
SEA	Rather rough on our extreme northwest coasts, but slight or smooth elsewhere.

## PROBABLE CHANGES IN SYSTEM NOW PREVALENT

In the course of the past 24 hours the barometer has continued to rise steadily at the English and Continental stations, and a large area of high pressure now lies over England, the North Sea and the west of France. On our western and northern coasts, however, a brisk fall of the mercury has set in during the night, and a <sup>depression</sup> is apparently skirting the northwest of Scotland.

The depression will probably move away in a northerly direction, but other disturbances are likely to follow, so that S. winds and milder weather may be expected to extend gradually over the whole Kingdom.

## FORECASTS

for the 24 hours ending at NOON on 22<sup>nd</sup> December 1886.

DISTRICTS.	FORECASTS.	DISTRICTS.	FORECASTS.
0 SCOTLAND NORTH	S.W. winds, strong, cloudy, some rain or sleet.	6 SCOTLAND WEST	Same as No 1.
1 SCOTLAND EAST	SW. and S. winds, freshening, fair to cloudy and some rain.	7 ENGLAND N. W.	Same as No 1.
2 ENGLAND N. E.	SW. winds, moderate, fair generally, but some mist or fog.	8 ENGLAND S. W.	S. winds, moderate, fair, milder.
3 ENGLAND EAST	Same as No 5.	9 IRELAND NORTH	S. and SW. winds, increasing in force, cloudy, some rain or sleet.
4 MIDLAND COUNTIES	Same as No 5.	10 IRELAND SOUTH	----- D. ----- D. ----- D.
5 ENGLAND SOUTH	Variable breezes, finally SW.; cold and foggy at first, then milder and finer.	WARNINGS	NONE ISSUED.



# YESTERDAY'S 2 P.M. REPORTS.

	Bar.	Dry.	Wet.	Wind.	Wes.	Sea.		Bar.	Dry.	Wet.	Wind.	Wes.	Sea.
Skudesnaes ...	30.09	30	29	ArtE 1	c	2	Holyhead ...	30.20	39	37	ArtE 3	bc	2
Sumburgh Head ...	30.09	29	28	z 0	b	1	Valencia ...	30.32	39	36	ArtE 1	b	2
Stornoway ...	30.15	30	30	frSW 3	b	2	Scilly ...	30.14	40	35	ArtE 4	c hp	4
Aberdeen ...	30.18	19	18	frSW 1	b	1	Dungeness ...	29.93	33	33	ArtE 4	m	2
Shields ...	30.17	33	31	w 1	c	2	London ...	30.05	34	33	ArtE 4	e	2
Ardrossan ...	30.21	30	30	ArtE 1	b	0	Yarmouth ...	30.07	36	35	e 6	cq ship	5
Malin Head ...	30.28	34	34	s 2	c	2	Jersey ...	30.04	38	34	ArtE 3	bc	3
Mullaghmore ...	30.25	34	32	s 1	c	2	Rochefort ...	30.00	36	34	ArtE 4	b	2
Belmullet ...	30.28	36	34	SW 3	ArtE	*							

## GENERAL REMARKS ON THE WEATHER OVER EUROPE

DURING THE PAST 24 HOURS.

Yesterday morning's reports showed a continuation of the high pressure (30.1 ins. and upwards) recently noticed over south-eastern Europe, and an increase of those in the northwest to about the same value. The two areas were separated by a broad zone, which lay over France, Germany and Poland, and in which readings were all below 29.9 ins.; while in Bavaria and the south of France they were rather below 29.6 ins. Cold NE to N winds, and local cold showers consequently prevailed over the whole of Northern Europe, while milder and wetter SW winds were reported in the south. Temperature had decreased greatly in the N., the frost had extended to nearly the whole of France. The readings varied from about 69° in several parts of Algeria, and from upwards of 60° over the greater part of the Mediterranean to many degrees below the freezing point over nearly the whole of Northern Europe, and to many degrees below zero (Fah.) in Finland. The highest individual readings were 69° at La Calle, 68° at Algiers, 66° at Cagliari, 63° at Malta, 62° at Sanguinaires, and 60° at Brindisi, Naples, Rome and Lissas; the lowest were -12° F at Uleaborg, -5° at Haparanda and Hernösand, and -1° F at Kuopio. At Aberdeen the thermometer was as low as 18° and in London 21°.

Later in the day the western high pressure area spread more over the United Kingdom, but no further increase of cold 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 8 p.m. in France and our Islands with the exception of Oxford, where they are taken at 8 p.m. In Sweden and Denmark, the observations are taken at 8 p.m. (Christiania time).

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



# DAILY WEATHER REPORT.

for Wednesday 22<sup>nd</sup> December 1886.  
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.		Sea. (0 to 9.)	SHADE TEMP.		Amount of Rainfall.		
				Dir.	Force. (0 to 12.)		Reading at 32° F. and Sea Level.	Difference from 8 a.m. yesterday.	Dry.	Wet.	Difference from 8 a.m. yesterday.	Dir.	Force. (0 to 12.)		Weather.	Max.		Min.	
SCANDINAVIA.	Haparanda ..	29.91	8	Z	0	0	29.91	+ .09	9	9	+ 6	Z	0	b	*	14	-4	-	
	Hernösand ...	30.17	19	Z	0	b	30.12	+ .02	15	15	0	SSW	4	b	*	25	2	-	
	Stockholm ...	30.39	11	WNW	2	b	30.35	+ .05	11	11	+ 3	WSW	2	b	*	14	7	-	
	Wisby ...	30.44	18	ESE	4	b	30.38	+ .17	21	19	+ 2	E	4	b	*	28	18	-	
	Bodö ...	29.82	28	WSW	6	r	29.79	+ .04	37	32	0	E	2	o	1	39	36	0.24	
	Christiansund...	29.97	31	NE	4	b	29.78	- .28	35	33	+ 2	SE	3	b	4	36	28	0.12	
	Skudesnaes ...	30.17	36	SSE	8	o	29.94	- .22	40	37	+ 8	SSE	8	o	5	?	32	-	
	Christiania Fjord (Færder)	30.30	23	Z	0	f	30.19	- .15	31	31	+ 13	S	6	c	3	?	23	-	
	Skagen (The Scaw)	30.24	29	WSW	2	b	30.20	- .07	30	28	+ 1	SW	2	o	1	?	21	-	
	Fanö ...	30.36	20	SE	2	b	30.20	- .14	19	18	+ 1	SE	2	b	*	25	?	-	
BRITISH ISLANDS.	Sumburgh Head	29.74	41	S	5	o	29.58	- .16	40	39	+ 2	S	1	o	4	43	38	0.03	
	Stornoway ...	29.55	43	S	9	rg	29.48	- .08	38	37	- 3	NE	1	cp	2	44	34	0.48	
	Wick ...	29.73	40	S	7	o	29.49	- .49	40	39	+ 3	S	1	b	1	42	36	0.04	
	Nairn ...	29.71	40	SSW	3	c	29.50	- .53	37	36	+ 1	Z	0	b	0	42	33	0.01	
	Aberdeen...	29.95	36	S	4	o	29.58	- .55	39	38	+ 11	S	3	rg	3	39	27	0.03	
	Leith ...	29.97	38	WNW	3	c	29.54	- .67	38	37	+ 3	SSE	1	od	*	42	34	0.03	
	Shields ...	30.15	29	SSW	3	c	29.70	- .59	35	34	+ 11	SSW	6	od	2	35	23	-	
	Spurn Head ...	30.26	31	SSW	3	b	29.88	- .47	34	34	+ 5	S	6	rgm	3	36	25	-	
	York ...	30.24	29	S	2	b	29.80	- .55	34	33	+ 11	S	3	r	*	35	22	0.01	
	Loughborough	30.27	25	Z	0	b	29.88	- .52	36	35	+ 19	SSE	4	og	*	36	17	-	
GERMANY.	Ardrossan ...	29.94	42	SSW	8	r	29.43	- .76	39	39	- 1	NE	1	rf	1	44	38	0.03	
	Malin Head ...	29.76	36	S	6	o	29.34	- .73	39	39	+ 5	N	1	r	1	40	34	0.06	
	Mullaghmore ...	29.85	40	WSW	7	rg	29.38	- .73	40	39	+ 2	NE	5	or	4	43	37	0.26	
	Belmullet ...	29.87	45	WNW	5	c	29.45	- .62	43	42	- 1	NW	4	o	*	47	40	0.52	
	Donaghadee ...	30.02	38	SW	3	r	29.38	- .87	45	45	+ 15	SSW	4	r	2	45	30	0.41	
	Barrow-in-Furness	30.15	36	SSE	4	o	29.57	- .72	38	37	+ 9	SE	9	r	*	38	27	0.47	
	Liverpool (Bidston)	30.21	32	SSE	2	b	29.67	- .67	37	36	+ 14	SE	5	o	4	38	23	0.02	
	Holyhead ...	30.15	44	SSW	5	opg	29.54	- .77	47	47	+ 10	SSW	6	rmg	5	48	37	0.77	
	Parsonstown ...	30.04	39	SE	2	r	29.36	- .93	46	45	+ 19	NW	2	opg	*	48	26	0.72	
	Valencia ...	30.03	47	SSW	7	rgm	29.58	- .69	47	45	+ 4	NW	7	og	5	52	43	0.96	
FRANCE & NETHERLANDS.	Roche's Point...	30.11	47	SW	4	o	29.44	- .90	50	50	+ 19	SW	8	r	5	50	31	0.95	
	Pembroke ...	30.29	45	SW	5	o	29.83	- .55	49	48	+ 8	SSW	7	r	6	49	38	0.19	
	Scilly ...	30.35	40	N	2	c	29.94	- .49	46	46	+ 16	S	6	pg	6	46	28	0.05	
	Prawle Point ...	30.28	36	ENE	2	c	30.10	- .30	44	42	+ 7	SW	5	cmu	4	44	34	0.16	
	Hurst Castle ...	30.27	27	NNE	1	f	30.02	- .40	46	45	+ 20	SW	6	cp	1	46	25	0.04	
	Dungeness ...	30.24	26	NW	2	f	30.06	- .28	42	39	+ 12	SW	4	c	3	42	21	0.02	
	London ...	30.38	25	Z	0	f	30.01	- .39	36	35	+ 10	S	2	b	*	36	19	-	
	Oxford ...	30.26	24	S	2	o	29.97	- .45	33	32	+ 6	SE	4	b	*	36	23	-	
	Cambridge ...	30.25	25	SW	1	m	29.98	- .43	31	31	+ 5	S	1	c	*	31	20	-	
	Yarmouth ...	30.24	28	NW	2	bcm	30.05	- .27	34	33	+ 4	SSW	3	b	3	34	21	-	
PENIN- SULA.	Cuxhaven ...	30.22	28	NE	2	c	30.24	- .04	31	31	+ 2	NNE	2	c	*	?	28	-	
	Berlin ...	30.26	26	NE	2	c	29.99	- .17	25	25	- 7	NE	2	s	*	?	25	-	
	Wiesbaden ...	*	*	*	*	*	30.17	+ .12	25	24	- 3	SW	5	o	*	32	25	0.08	
	Munich ...	30.17	25	NW	4	*	30.05	+ .23	20	19	- 7	N	6	o	*	?	19	0.85	
	The Helder ...	30.36	27	SSE	1	o	30.19	- .14	24	22	- 6	S	1	c	1	32	21	-	
	Brussels ...	*	*	*	*	*	30.24	- .05	18	18	- 5	SSW	4	b	*	29	17	-	
	Cape Gris Nez...	30.39	25	SW	1	b	30.31	+ .07	21	21	- 6	SSE	3	b	*	31	19	-	
	Brest ...	30.41	43	W	4	o	30.12	- .29	45	44	+ 9	WSW	8	r	4	46	32	-	
	Lorient ...	30.45	41	N	1	b	30.20	- .24	47	42	+ 10	W	7	o	4	?	28	-	
	Rochefort ...	30.48	36	NNE	4	b	30.38	- .01	34	34	- 1	SE	5	o	2	?	28	0.85	
PENIN- SULA.	Belfort ...	30.10	25	E	1	s	30.24	+ .40	17	17	- 9	SW	1	o	*	31	17	-	
	Lyons ...	30.26	26	NNW	7	s	30.29	+ .45	18	17	- 11	NNW	3	b	*	?	?	0.08	
	Nice ...	29.64	39	WNW	7	o	29.88	- .37	37	29	- 8	E	1	o	3	45	30	-	
	Perpignan ...	30.28	35	NW	7	b	30.36	+ .24	33	27	- 5	NW	7	b	*	42	21	-	
	Biarritz ...	30.46	34	E	4	b	30.41	+ .06	35	28	+ 1	S	4	b	2	37	28	-	
	Corunna ...	*	*	*	*	*	30.42	+ .22	37	33	- 3	NNE	7	b	5	30	36	0.24	
	Lisbon ...	30.23	44	NE	8	c	30.42	+ .22	37	33	- 3	NNE	7	b	5	30	36	0.24	

For Explanation of Columns, see p. 1.



# WEATHER CHARTS

for 8 a.m. on Wednesday, 22<sup>nd</sup> December, 1880.

## 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.

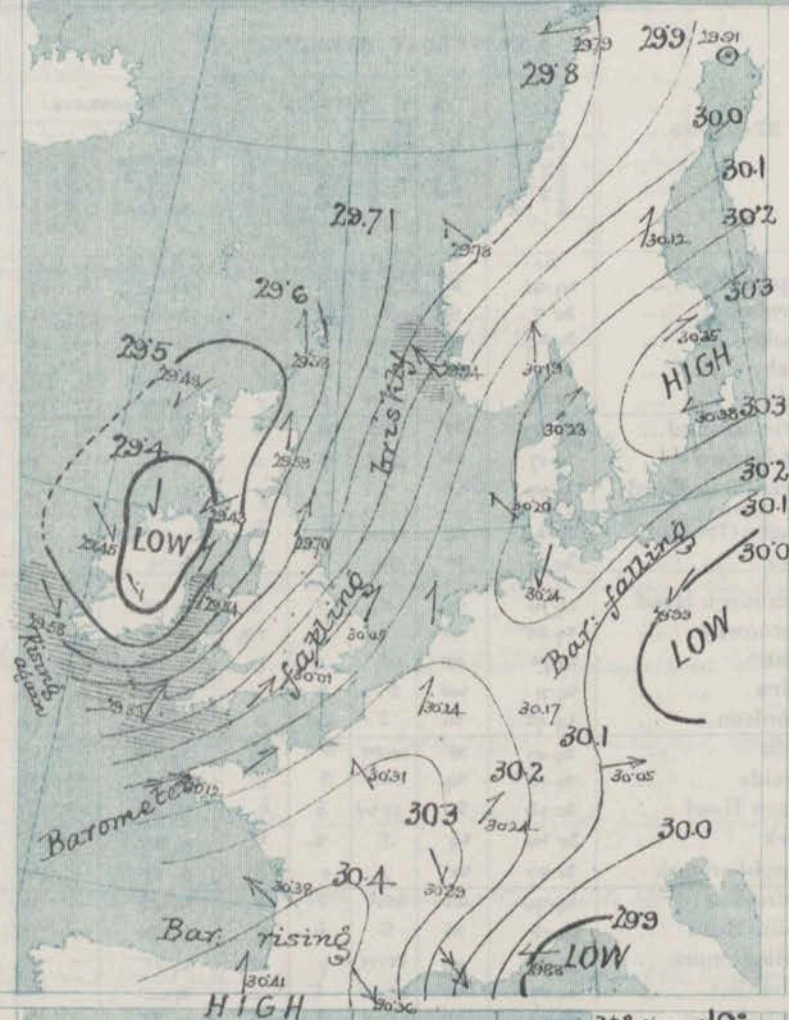
**Sea Disturbance**—where considerable is shown thus

▨ = Rough. ▨ = High.

## MEAN HEIGHT of the BAROMETER

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

STATIONS.	MEAN READINGS.
	<i>in.</i>
Sumburgh Head	29.680
Stornoway	29.701
Wick	29.713
Nairn	29.741
Aberdeen	29.750
Leith	29.800
Shields	29.836
York	29.877
Ardrossan	29.810
Donaghadee	29.832
Holyhead	29.858
Liverpool	29.882
Valencia	29.870
Roche's Point	29.889
Pembroke	29.897
Scilly	29.943
Hurst Castle	29.938
Dover	29.942
LONDON	29.934
Oxford	29.937
Cambridge	29.926
Yarmouth	29.902



## 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 December.

STATIONS	TEMPERATURE				RAINFALL (Inches)
	Daily Max.	Daily Min.	At 8 a.m. Dry	Wet	
Sumburgh Head	42.0	34.5	39.0	37.6	4.33
Stornoway	41.8	33.5	35.9	37.8	5.66
Wick	42.0	32.1	37.8	36.4	3.18
Nairn	41.6	32.8	36.9	35.4	2.08
Aberdeen	41.8	32.9	36.9	35.3	3.34
Leith	44.3	33.6	38.4	37.0	2.01
Shields	42.8	34.3	39.2	36.9	2.74
York	42.5	31.9	36.2	35.4	2.45
Ardrossan	47.0	36.1	40.1	38.3	4.04
Donaghadee	46.7	36.1	40.1	39.1	2.84
Holyhead	46.8	39.6	42.9	41.3	3.84
Liverpool	43.6	35.7	39.1	37.4	2.70
Valencia	50.0	40.0	44.7	41.8	5.82
Roche's Point	47.7	39.3	42.9	41.4	4.74
Pembroke	47.1	40.4	43.7	42.6	1.06
Scilly	49.8	43.9	47.2	45.3	4.10
Hurst Castle	45.5	36.5	40.6	39.9	2.81
Dover	44.2	36.5	40.0	38.8	3.20
LONDON	44.5	33.9	38.1	37.1	2.14
Oxford	43.3	33.6	37.3	36.6	2.13
Cambridge	43.3	31.8	36.3	35.6	1.06
Yarmouth	42.2	33.8	37.9	37.2	2.05

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





Highest, 30.4 ins and upwards over Spain and the south west of France, but relatively high 30.3 ins and upwards over the Baltic.  
Lowest, 29.4 ins and less in the centre of a depression lying over the north of Ireland but relatively low 29.4 ins and less in another dish situated over the Gulf of Genoa, and 30.0 ins or less in a third system lying over North Germany.

Highest,  $50^{\circ}$  at Rocher Point,  $49^{\circ}$  at Lillie and  $47^{\circ}$  at Valencia.  
Lowest,  $9^{\circ}$  at Haparanda,  $11^{\circ}$  at Stockholm,  $15^{\circ}$  at Heringsand,  $17^{\circ}$  at Belfort and  $18^{\circ}$  at Brussels and Lyons.  
Since yesterday morning a considerable rise of temperature has taken place over the British Islands.

Strong from the W<sup>th</sup> in the west of Ireland, from SW on our south-west coasts and from S in the north-east.  
Light or moderate from the S<sup>th</sup> in Scotland and the south-west of France.  
Strong to a gale from NW in the south of France, and from NNE at Lisbon

{ Fine in the north of Scotland, the south-east of England and at most of the Continental stations  
Cloudy elsewhere with rain in Ireland and the west and north of England, and snow at Berlin.  
Since yesterday, heavy rain has fallen at most of our western stations.

Rough off the south-west of England, and rather rough off our west coasts generally, but moderate to smooth elsewhere.

\_\_\_\_\_

23rd December 1886

FORECASTS



# YESTERDAY'S 2 P.M. REPORTS.

	Bar.	Dry.	Wet.	Wind.	Wen.	Sea.		Bar.	Dry.	Wet.	Wind.	Wen.	Sea.
Skudesnaes ...	30.23	33	31	SSE 6	c	4	Holyhead ...	30.21	43	38	SSW 4	c	2
Sumburgh Head	29.82	40	38	S 4	o	4	Valencia ...	30.14	46	44	SW 7	rm	6
Stornoway ...	29.69	43	42	S 9	rq	7	Scilly ...	30.33	46	40	WSW 4	c	4
Aberdeen ...	30.03	32	30	S 3	bc	1	Dungeness ...	30.34	28	28	NW 3	f	2
Shields ...	30.21	33	31	SSW 2	bm	2	London ...	30.38	28	?	NW 1	fg	*
Ardrossan ...	30.06	42	41	S 5	c	4	Yarmouth ...	30.33	31	30	WNW 3	bm	3
Malin Head ...							Jersey ...	30.38	40	36	SW 2	g	2
Mullaghmore ...	29.94	39	37	S 7	og	5	Rocheport ...	30.45	40	37	NNE 7	g	2
Belmullet ...	29.89	43	44	SSW 5	o	*							

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

Yesterday morning's reports showed that the weather over Europe was in a most unsettled condition. Pressure varied from a little above 30.4 ins over Brittany and the south of England, and from 30.3 ins and upwards over the south of Sweden, to about 29.8 ins at the extreme north-western stations on the one hand, to about the same value over Austria, and to about 29.3 ins over the north of Italy, on the other. In the latter region was a rather deep depression moving north-eastwards, while off our west and north-west coasts the barometer was falling fast, and a depression seemed to be approaching from the Atlantic. Thus while SW winds, mild weather and rain were spreading over Ireland and Scotland, the cold foggy weather still held over England and the west and north of France. In Switzerland, the south of France and north of Italy, however, the weather was becoming very rough, severe NW gales being felt over the extreme northern parts of the Mediterranean and Gulf of Genoa, while NE winds and much snow were reported over Germany and Central France. Temperature had fallen fast in the south of Europe, and varied from between 60° and 64° over the south-eastern parts of the Mediterranean and from between 40° and 50° over Northern Italy, to several degrees below the freezing point over France, North Germany and the British Isles, and to nearly zero over Finland - where, however, the thermometer was rising. The highest individual readings were 64° at Palermo and Malta 61° at Brindisi, 60° at Naples and Rome, and 59° at Livorno (while at Nice the temperature was but little above the freezing point). The lowest were 2° at Haparanda 8° at Norrönd 10° at Uleaborg, 12° at St. Petersburg and Moscow, 17° at Loughborough, 23° at Brussels 26° in London, Cambridge and at Belfort and 27° at Paris.

During the day the depression over Northern Italy moved north-eastwards and large quantities of snow fell over Germany. Over the United Kingdom the barometer continued to fall and the mild SW winds spread gradually over the Kingdom from the westward, though they did not reach our south-eastern counties till early this (Wednesday) 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 Thursday 23<sup>rd</sup> December 1886.  
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.				Dir.	Force (0 to 12.)		Max.	Min.	
SCANDINAVIA.																		
Haparanda ..	29.87	21	N	4	0	29.88	-0.3	16	16	+7	W	4	0	*	25	7	-	
Hernösand ...	30.04	26	S	6	0	29.90	-2.2	13	12	-2	W	0	0	*	?	7	-	
Stockholm ...	30.02	24	E	2	0	29.80	-5.5	30	29	+19	E	2	0	*	?	7	0.04	
Wisby ...	30.02	27	SSE	4	0	29.74	-6.4	30	30	+9	S	4	0	*	30	16	0.04	
Bodö ...	29.75	35	ENE	2	0	29.68	-1.1	35	31	-2	ENE	2	0	1	37	28	-	
Christiansund...	29.70	38	SSE	2	0	29.60	-1.8	38	31	-2	SSE	3	0	4	39	30	-	
Skudesnaes ...	29.79	31	ESE	0	0	29.62	-3.2	30	26	-10	ESE	4	0	5	?	30	-	
Christiania Fjord (Fierder)	29.99	29	E	6	0	29.68	-3.1	26	20	-5	NE	6	0	2	?	23	-	
Skagen (The Scaw)	29.88	28	ESE	4	0	29.56	-6.7	31	30	+1	SE	5	0	3	?	27	-	
Fanö ...	29.76	27	SE	2	0	29.47	-7.3	24	24	+5	W	0	0	*	?	18	-	
BRITISH ISLANDS.																		
Sumburgh Head	29.84	40	S	1	0	29.40	-1.8	37	36	-3	W	0	3	3	42	35	0.98	
Stornoway ...	29.39	34	W	3	0	29.55	+0.7	35	34	-3	W	2	0	1	39	32	0.05	
Wick ...	29.31	35	W	1	0	29.52	+0.3	34	33	-6	W	1	0	1	40	32	0.04	
Nairn ...	29.33	37	W	0	0	29.51	+0.1	34	33	-3	W	0	0	0	38	33	-	
Aberdeen...	29.30	34	W	1	0	29.55	-0.3	36	34	-3	W	2	0	3	40	33	0.69	
Leith ...	29.32	38	SE	1	0	29.62	+0.8	36	34	-2	W	1	0	1	40	34	0.33	
Shields ...	29.20	38	S	3	0	29.59	-1.1	35	33	0	W	3	0	2	40	33	0.29	
Spurn Head ...	29.33	40	S	6	0	29.50	-3.8	38	36	+4	W	7	0	5	40	29	0.35	
York ...	29.25	40	SSE	4	0	29.62	-1.8	37	34	+3	W	3	0	*	42	34	0.37	
Loughborough	29.42	40	W	4	0	29.64	-2.4	38	36	+2	W	4	0	*	43	36	0.25	
GERMANY.																		
Ardrossan ...	29.39	42	W	4	0	29.66	+2.3	41	40	+2	W	3	0	2	45	35	-	
Malin Head ...	29.45	41	W	3	0	29.69	+3.5	41	41	+2	W	3	0	3	45	39	0.05	
Mullaghmore ...	29.63	43	W	6	0	29.75	+3.7	42	41	+2	W	5	0	4	45	39	0.16	
Belmullet ...	29.70	44	W	5	0	29.78	+3.3	43	41	0	W	3	0	*	45	41	0.10	
Donaghadee ...	29.49	40	W	6	0	29.73	+3.5	34	34	-11	W	3	0	1	45	33	0.58	
Barrow-in-Furness	29.34	41	W	6	0	29.69	+1.2	40	38	+2	W	3	0	*	42	37	0.28	
Liverpool (Bidston)	29.40	43	W	8	0	29.69	+0.2	41	39	+2	W	4	0	4	43	37	0.19	
Holyhead ...	29.52	44	W	9	0	29.76	+2.2	42	40	-5	W	5	0	5	48	42	0.66	
Parsonstown ...	29.72	38	W	1	0	29.84	+4.8	32	32	-14	W	0	0	*	46	31	-	
Valencia ...	29.82	46	W	4	0	29.90	+3.2	39	39	-8	W	0	0	1	49	39	0.04	
Roche's Point...	29.78	43	W	4	0	29.86	+4.2	37	36	-13	W	2	0	3	50	36	0.06	
Pembroke ...	29.67	45	W	6	0	29.83	+2.3	45	42	-3	W	4	0	3	49	44	0.47	
Scilly ...	29.76	49	W	8	0	29.88	+0.5	47	44	-2	W	3	0	5	51	45	0.37	
Prawle Point ...	29.71	43	W	5	0	29.87	-0.7	37	35	-9	W	2	0	4	49	37	0.15	
Jersey ...	29.71	48	W	6	0	29.86	-2.4	44	41	0	W	4	0	4	48	43	0.22	
Hurst Castle ...	29.60	43	W	5	0	29.78	-2.4	40	37	-6	W	5	0	3	47	36	0.28	
Dungeness ...	29.56	44	W	7	0	29.62	-4.4	36	35	-6	W	4	0	4	46	34	0.80	
London ...	29.52	43	W	3	0	29.68	-3.3	37	36	+1	W	5	0	*	44	35	0.18	
Oxford ...	29.56	40	W	3	0	29.73	-2.4	38	35	+5	W	1	0	*	44	33	0.15	
Cambridge ...	29.48	40	SSW	2	0	29.63	-3.5	37	35	+6	W	2	0	*	41	29	0.12	
Yarmouth ...	29.53	40	S	7	0	29.43	-6.2	38	37	+4	W	8	0	6	40	33	0.27	
Cuxhaven ...	29.95	30	ENE	1	0	29.46	-7.8	27	27	-4	SSE	3	0	*	?	25	-	
Berlin ...	29.84	23	W	0	0	29.61	-3.8	23	22	-2	S	2	0	*	27	23	-	
Wiesbaden ...	*	*	*	*	*	29.61	-5.6	30	28	+5	SW	2	0	*	?	19	0.16	
Munich ...	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	
FRANCE & NETHERLANDS.																		
The Helder ...	29.66	28	SSE	3	0	29.27	-9.2	37	37	+13	W	1	0	2	37	23	0.20	
Brussels ...	*	*	*	*	*	29.53	-7.1	37	35	+19	SW	7	0	*	37	?	0.16	
Cape Gris Nez...	29.77	37	SW	8	0	29.60	-5.3	41	38	-3	W	8	0	6	?	28	0.85	
Paris ...	29.94	32	SW	3	0	29.78	-5.3	35	34	+14	W	3	0	*	36	?	0.16	
Brest ...	29.78	49	W	8	0	29.93	-1.9	47	44	+2	W	4	0	5	50	45	0.16	
Lorient ...	29.83	50	W	7	0	29.97	-2.3	46	43	-1	W	1	0	5	50	45	0.24	
Rochefort ...	30.09	46	W	8	0	30.01	-3.7	45	43	+11	W	4	0	2	48	?	0.24	
Belfort ...	30.14	49	SW	1	0	29.78	-4.4	32	32	+15	W	4	0	*	?	7	0.24	
Lyons ...	30.28	19	W	1	0	29.99	-4.0	27	26	+9	S	1	0	*	28	18	-	
Nice ...	29.97	38	E	3	0	29.97	+0.9	32	28	-5	SSE	4	0	2	43	30	-	
Perpignan ...	30.25	37	N	3	0	30.01	-3.5	37	33	+4	W	3	0	*	46	28	-	
Biarritz ...	30.24	43	S	4	0	29.99	-4.2	50	45	+15	W	5	0	5	?	32	0.14	
PENINSULA.																		
Corunna ...	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	
Lisbon ...	30.43	45	N	4	0	30.39	-0.3	48	45	+11	W	4	0	2	?	?	-	

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



# WEATHER CHARTS

for 8 a.m. on Thursday, 23<sup>rd</sup> December

1886.

## BAROMETER, WIND & SEA.

(Explanation of Map)

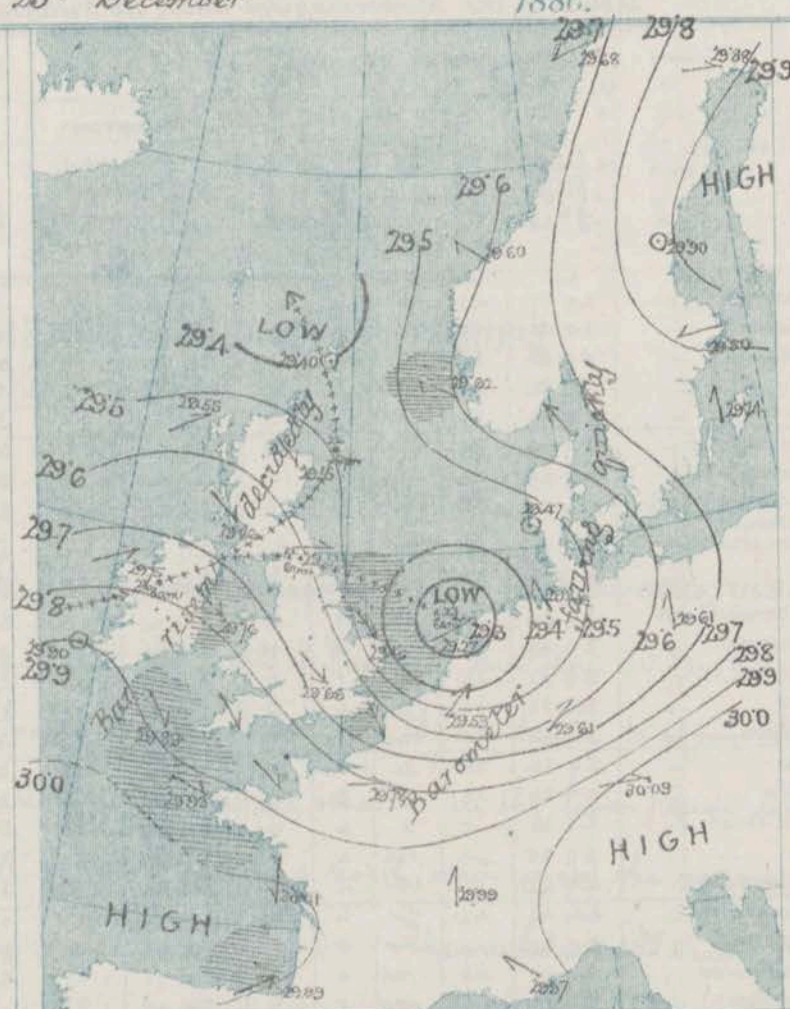
**Barometer** — Isobars are drawn for each tenth of an inch. Changes since previous morning are stated in words.  
**Wind** — Arrows show the prevalent winds. They fly with the wind and their barbs and feathers refer to force, thus —  
 — force above 10; — force 8 to 10;  
 — force 5 to 7; — force 1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

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

## MEAN HEIGHT of the BAROMETER

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

STATIONS.	MEAN READINGS.
	in.
Sumburgh Head	29.680
Stornoway	29.701
Wick	29.713
Nairn	29.741
Aberdeen	29.750
Leith	29.800
Shields	29.836
York	29.877
Ardrossan	29.810
Donaghadee	29.832
Holyhead	29.858
Liverpool	29.882
Valencia	29.879
Rocha's Point	29.889
Pembroke	29.897
Scilly	29.943
Hurst Castle	29.938
Dover	29.942
LONDON	29.934
Oxford	29.937
Cambridge	29.926
Yarmouth	29.902



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

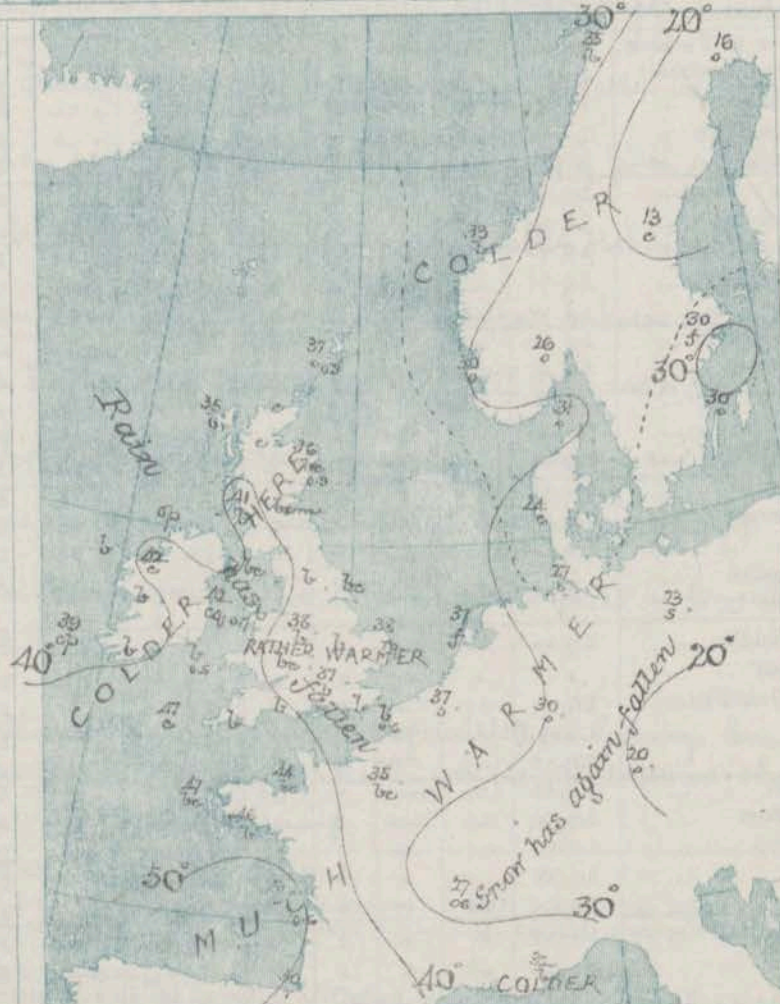
**Temperature** — Isotherms are drawn for each 10° changes since previous morning are stated in words.  
**Weather** — is shown by Letters of the Beaufort Scale.  
**Rainfall** — A dotted line separates the districts in which rain has fallen from those where there has been none. Falls of 0.5 in. or more,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

## MEANS OF TEMPERATURE IN SHADE. AND RAINFALL.

for the month of December.

STATIONS	TEMPERATURE				RAINFALL (Inches)
	Daily Max.	Daily Min.	Average Dry	Average Wet	
Sumburgh Head	42.0	34.5	39.0	37.6	4.33
Stornoway	44.8	35.5	38.9	37.8	6.66
Wick	42.0	32.1	37.8	36.4	5.18
Nairn	41.5	32.8	36.9	35.4	2.08
Aberdeen	41.8	32.9	36.9	35.3	3.34
Leith	44.3	33.6	38.4	37.0	2.01
Shields	42.8	34.3	39.2	36.9	2.74
York	42.5	31.9	36.2	35.4	2.45
Ardrossan	47.0	36.1	40.7	38.3	4.04
Donaghadee	46.7	36.1	40.1	39.1	2.84
Holyhead	46.8	36.6	42.9	41.3	3.84
Liverpool	43.6	35.7	39.1	37.4	2.70
Valencia	50.0	40.0	44.7	41.8	6.82
Rocha's Point	47.7	39.3	42.9	41.4	4.74
Pembroke	47.1	40.4	43.7	42.6	4.06
Scilly	49.8	43.9	47.2	45.3	4.10
Hurst Castle	45.5	36.5	40.6	39.9	2.84
Dover	44.2	36.5	40.0	39.8	3.20
LONDON	44.5	35.9	38.1	37.1	2.14
Oxford	43.3	35.6	37.3	36.6	2.13
Cambridge	43.3	31.8	36.3	35.6	1.99
Yarmouth	42.2	33.8	37.9	37.2	2.96

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, 30.09 in. at Munich, 30.01 in. at Rochefort, and 29.99 in. at Valencia and also at Harnösands.  
Lowest, 29.27 in. at the Helder, and 29.50 in. at Lumburg Place.

Gradients are steep off our SE coast, but slight over the Indian hills generally. The barometer appears to be falling again in the <sup>interior N</sup>.

TEMPERATURE

Highest,  $50^{\circ}$  at Wexford,  $47^{\circ}$  at Scilly, &  $41^{\circ}$  in the northwest of England.

Lowest,  $13^{\circ}$  at Hemorand,  $20^{\circ}$  at Munich,  $26^{\circ}$  at Fander,  $27^{\circ}$  at Lyons and  $30^{\circ}$  over Central Ireland

It has fallen considerably, over the United Kingdom, but risen rapidly in France during the past 24 hours.

WIND

Chiefly NW in our Islands, W over France, and SE on the eastern shore of the North Sea.

In the south of France it is SE, while on our extreme northwest coast it is backing to SW again.

In force it is blowing again on our SE. coast and in Belgium, but elsewhere it is moderate to light.

## WEATHER

Has improved greatly in the British Isles where rain fell generally yesterday - especially, in the north.

In Germany and the SE. of France, however, snow is falling, and large quantities again fell in those regions yesterday.

SEA

rough in the east, rather as at Holyhead, and though moderate on our south coast is probably except on the French side of the Channel. In the north it is smooth.

### PROBABLE CHANGES IN SYSTEM NOW PREVALENT

The depression of yesterday has broken up into two distinct systems one of which has moved northward to the Shetland Isles, while the other has moved southward to the Netherlands. In this area (i.e. over our islands) the barometer has risen quickly, but in the extreme NW. the rise appears to have ceased. This change together with a backing wind point to the probable advance of a new depression to our NW. coast from the Atlantic.

The depression shown over the Gulf of Genoa yesterday seems to have filled up.

## FORECASTS

for the 24 hours ending at NOON on 24<sup>TH</sup> DEC<sup>R</sup>

1886.

DISTRICTS.		FORECASTS.	DISTRICTS.		FORECASTS.
* 0	SCOTLAND NORTH	SW <sup>ly</sup> winds, increasing in force, rainy, unsettled.	* 6	SCOTLAND WEST	Wind backing to SW and increasing with unsettled weather.
* 1	SCOTLAND EAST	NW <sup>ly</sup> to SW <sup>ly</sup> winds, force doubtful at present; fair to unsettled.	* 7	ENGLAND N. W.	----- D <sup>o</sup> ----- D <sup>o</sup> ----- D <sup>o</sup>
* 2	ENGLAND N. E.	----- D <sup>o</sup> ----- D <sup>o</sup> ----- D <sup>o</sup>	* 8	ENGLAND S. W.	NW <sup>ly</sup> to W <sup>ly</sup> or SW <sup>ly</sup> winds, fair to unsettled.
* 3	ENGLAND EAST	Same as No 5	* 9	IRELAND NORTH	Same as No 6
* 4	MIDLAND COUNTIES	Same as No 5	* 10	IRELAND SOUTH	Same as No 7.
* 5	ENGLAND SOUTH	NW <sup>ly</sup> winds, moderating; fine, cold, afterwards backing with unsettled weather.	WARNINGS		The signals are still flying on all our coasts. An asterisk is inserted against those districts in which the signals are now flying from the 1st to the 15th inst.



# YESTERDAY'S 2 P.M. REPORTS.

	Bar.	Dry.	Wet.	Wind.	Waa.	Sea.		Bar.	Dry.	Wet.	Wind.	Waa.	Sea.
Skudesnaes ...	29.88	37	35	SE 9	0	6	Holyhead ...	29.86	43	42	W 9	0 g m	7
Sumburgh Head ...	29.41	41	40	S 3	N	1	Valencia ...	29.76	48	44	W 5	6 c q	5
Stornoway ...	29.39	38	38	2 0	6	0	Scilly ...	29.70	50	47	W 9	c	7
Aberdeen ...	29.32	39	38	3 6	N	4	Dungeness ...	29.80	44	43	SW 6	c	4
Shields ...	29.34	40	39	8 6	N	3	London ...	29.68	44	42	SE 5	0 g d	*
Ardrossan ...	29.27	36	36	W 3	N	2	Yarmouth ...	29.77	39	38	S 5	c	4
Malin Head ...	29.37	42	41	W 3	0	4	Jersey ...	29.79	44	44	SW 7	N	5
Mullaghmore ...	29.51	44	41	W 6	C	6	Rocheport ...	30.23	47	43	W 5	0	2
Belmullet ...	29.61	45	41	W 4	C	*							

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

The report for yesterday showed that pressure was highest (30.1 ins. to 30.3 ins.) in a broad zone which covered the whole of Spain, France, Germany and the Baltic, with the western and central parts of Russia. To the northward of this band readings decreased to about 29.3 ins. in a depression which lay over the British Isles, while to the southward and south-eastward it decreased to about 29.8 ins. in a somewhat complex system, which lay over South Germany, northern Italy and the Gulf of Genoa. The weather was very unsettled; over the British Isles strong S to W. and NW winds were experienced with rising temperature, dull weather and rain. Over Central and South Germany and the eastern parts of France the wind was NE, and there was continuous heavy snow, while in the south of France there were NW gales and dry weather. These systems of bad weather were separated by a band of severely cold but quiet weather, which prevailed within the limits of the high pressure zone referred to above. Temperature was below the freezing point over all but the extreme S, W, and NW parts of France. The readings varied from 61° at Palermo, 55° at Malta, 53° at San Fernando, 50° at Rocher, 49° at Alicante and Scilly, and 47° at Holyhead and Valencia, to 9° at Haparanda, 11° at Stockholm and Riga, 13° at Montreal and 17° at Relfort.

During the day the milder weather in the British Isles spread to France, but with a general shift of wind to NW. over the former region the thermometer began to fall again and the sky cleared. The depression over Great Britain broke into two parts, which moved away, one in a northerly, and the other in a south-easterly direction.

### 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 24<sup>th</sup> December 1886.

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 ...	29.51	13	Z	0	0	29.63	-.25	12	12	-4	N	2	c	*	23	12	-	
Hernösand ...	29.69	15	NE	2	S	29.53	-.37	21	21	+8	Z	0	S	*	27	12	0.16	
Stockholm ...	29.63	30	Z	0	S	29.44	-.36	27	26	-3	Z	0	S	*	32	27	0.24	
Wisby ...	29.60	27	S	2	c	29.34	-.40	29	29	-1	SE	4	b	*	32	25	0.16	
Bodö ...	29.57	32	E/NE	4	b	29.50	-.18	26	24	-9	E/NE	4	b	2	?	23	-	
Christiansund ...	29.50	31	ESC	2	bc	29.39	-.21	32	30	-1	ESE	1	c	3	?	28	-	
Skudesnaes ...	29.58	35	E	4	0	29.43	-.19	36	35	+6	SSE	8	0	5	?	30	-	
Christiania Fjord (Fjærd)	29.60	27	N	6	S	?	?	24	24	-2	Z	0	0	1	27	21	-	
Skagen (The Scaw)	29.53	29	SSE	2	bc	29.49	-.07	27	26	-4	N	1	c	1	32	27	0.04	
Fanø ...	29.59	19	Z	0	0	29.53	+.08	35	33	+11	SW	2	c	*	?	16	-	
BRITISH ISLANDS.																		
Sumburgh Head	29.46	37	NW	1	b	29.23	-.17	40	38	+3	SSW	1	N	3	41	32	0.04	
Stornoway ...	29.50	37	SW	3	N	29.27	-.28	38	37	+3	NW	3	cp	2	40	32	0.27	
Wick ...	29.50	32	NW	1	b	29.23	-.29	34	33	0	SW	2	0	1	38	31	0.17	
Nairn ...	29.54	34	Z	0	bc	29.25	-.28	36	35	+2	Z	0	c	0	40	31	0.09	
Aberdeen ...	29.60	32	WSW	1	b	29.26	-.29	35	34	-1	WSW	2	bc	1	38	29	0.11	
Leith ...	29.64	38	N	1	b	29.32	-.30	40	39	+4	WSW	1	c	*	41	34	-	
Shields ...	29.75	36	N	1	bc	29.39	-.20	39	37	+4	SSW	1	om	2	39	33	0.03	
Spurn Head ...	29.73	38	WNW	3	b	29.50	.00	37	37	-1	SSW	3	cgmp	3	38	35	0.03	
York ...	29.74	37	N	1	b	29.47	-.15	36	36	-1	S	1	0	*	40	35	-	
Loughborough	29.80	38	NW	1	0	29.54	-.10	39	38	+1	WSW	4	og	*	42	35	0.01	
GERMANY.																		
Ardrossan ...	29.65	43	SW	3	N	29.36	-.30	43	42	+2	N	4	0	3	46	42	0.11	
Malin Head ...	29.61	41	SW	3	od	29.42	-.27	41	39	0	WNW	3	op	4	45	39	0.32	
Mullaghmore ...	29.68	42	SW	4	ogp	29.50	-.25	42	40	0	NW	5	cgpp	5	43	39	0.40	
Belmullet ...	29.69	45	N	5	ou	29.62	-.16	41	40	-2	NW	5	0	*	45	40	0.45	
Donaghadee ...	29.71	38	SW	4	0	29.43	-.20	39	39	+5	N	4	N	2	40	38	0.05	
Barrow-in-Furness	29.73	41	SW	1	c	29.45	-.24	43	42	+5	WSW	4	c	*	43	39	0.19	
Liverpool (Bidston)	29.77	40	N	3	bc	29.48	-.21	41	39	0	WSW	4	c	3	44	39	0.08	
Holyhead ...	29.79	44	SW	4	0	29.50	-.26	43	42	+1	WSW	3	bc	3	45	40	0.06	
Parsonstown ...	29.80	39	Z	0	0	29.50	-.24	37	37	+5	N	1	c	*	41	31	0.18	
Valencia ...	29.83	43	SW	1	bc	29.73	-.17	44	41	+5	NW	4	op	4	47	39	0.25	
Roche's Point...	29.84	44	N	2	c	29.60	-.26	42	41	+5	NW	4	b	1	46	36	0.25	
Pembroke ...	29.85	45	N	3	bc	29.57	-.26	47	46	+2	WSW	6	cg	5	48	43	0.04	
Scilly ...	29.90	48	WNW	3	0	29.68	-.20	48	46	+1	WNW	5	c	4	49	43	0.10	
Prawle Point ...	29.91	42	WNW	2	b	29.67	-.20	46	46	+9	WSW	4	cg	5	48	35	0.03	
Jersey ...	29.93	44	WNW	2	bm	29.73	-.13	44	43	0	SSW	4	op	4	47	42	0.02	
FRANCE & NETHERLANDS.																		
Hurst Castle ...	29.89	40	WNW	4	b	29.67	-.11	45	44	+5	WSW	4	N	2	46	38	0.02	
Dungeness ...	29.82	35	WNW	2	b	29.66	+.04	44	43	+8	N	4	bc	2	44	33	0.02	
London ...	29.86	36	WNW	2	bf	29.64	-.04	38	37	+1	N	1	bcf	*	43	34	-	
Oxford ...	29.85	36	SW	2	0	29.61	-.12	39	37	+1	SW	2	c	*	42	36	-	
Cambridge ...	29.80	35	Z	0	b	29.58	-.05	36	35	-1	S	1	0	*	41	32	-	
Yarmouth ...	29.73	36	NW	4	c	29.60	+1.7	36	36	-2	SW	2	ogm	4	39	31	0.03	
Cuxhaven ...	29.53	26	N/NE	3	b	29.65	+1.9	34	34	+7	SW	3	S	*	?	26	-	
Berlin ...	29.53	33	SW	3	N	29.76	+1.5	34	34	+1	SW	1	S	*	32	19	-	
Wiesbaden ...	*	*	*	*	*	29.34	+1.23	37	35	+7	SW	2	0	*	39	?	0.04	
Munich ...	29.82	32	N	7	b	29.93	*	32	30	*	N	5	S	*	36	32	0.04	
PENIN. SULA.																		
The Helder ...	29.70	35	SSE	1	c	29.64	+1.37	39	38	+2	SW	3	N	3	41	32	0.08	
Brusselsa ...	*	*	*	*	*	29.80	+1.27	36	35	-1	S	5	0	*	40	34	0.59	
Cape Gris Nez...	30.01	38	SW	3	bc	29.89	+1.1	33	33	-2	S	3	0	*	44	32	-	
Brest ...	29.97	47	Z	0	b	29.76	-.17	44	44	-3	SE	3	0	4	50	43	-	
Lorient ...	29.79	46	Z	0	b	29.78	-.19	46	46	0	E/NE	3	m	2	52	41	0.08	
Rocheport ...	30.08	44	S	4	b	29.90	-.11	36	35	-9	SSE	7	N	2	?	30	-	
Belfort ...	29.91	34	SW	1	0	29.93	+1.5	33	33	+1	S	1	0	*	34	31	-	
Lyons ...	30.08	31	E/NE	1	b	30.04	+0.5	23	23	-4	S	1	f	*	38	22	-	
Nice ...	29.82	38	E	1	b	29.95	-.02	36	32	+4	E	1	b	2	45	32	-	
Perpignan ...	30.02	46	N	4	b	29.99	-.02	33	32	-4	NE	3	b	*	51	31	0.20	
Biarritz ...	30.02	47	Z	0	f	29.91	-.08	51	50	+1	WSW	7	?	5	?	43	-	
PENIN. SULA.																		
Corunna ...	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	-
Lisbon ...	30.38	52	WNW	4	0	30.27	-.12	52	51	+4	NW	3	bc	5	55	?	0.04	

For Explanation of Columns, see p. 4.



# WEATHER CHARTS

for 8 a.m. on Friday, 24<sup>th</sup> December, 1880.

## BAROMETER, WIND & SEA.

(Explanation of Map)

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

**Wind** — Arrows show the prevalent winds. The 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 3 to 4;

☉ — dead calm.

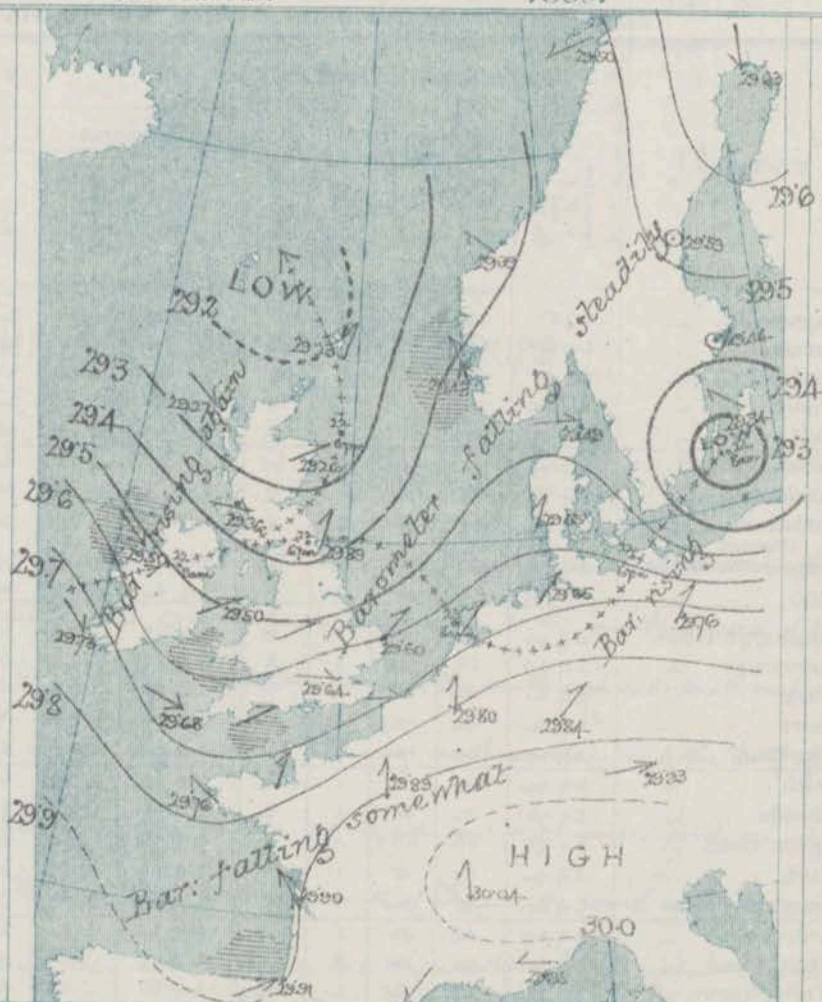
**Sea Disturbance** — where considerable is shown thus

— Rough — High.

## MEAN HEIGHT of the BAROMETER

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

STATIONS.	MEAN READINGS.
	in.
Sumburgh Head	29.680
Stornoway	29.701
Wick	29.713
Nairn	29.741
Aberdeen	29.750
Leith	29.800
Shields	29.836
York	29.877
Ardrossan	29.810
Donaghadee	29.832
Holyhead	29.858
Liverpool	29.882
Valencia	29.879
Roche's Point	29.889
Pembroke	29.897
Scilly	29.943
Hurst Castle	29.938
Dover	29.942
LONDON	29.934
Oxford	29.937
Cambridge	29.926
Yarmouth	29.902



## 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.

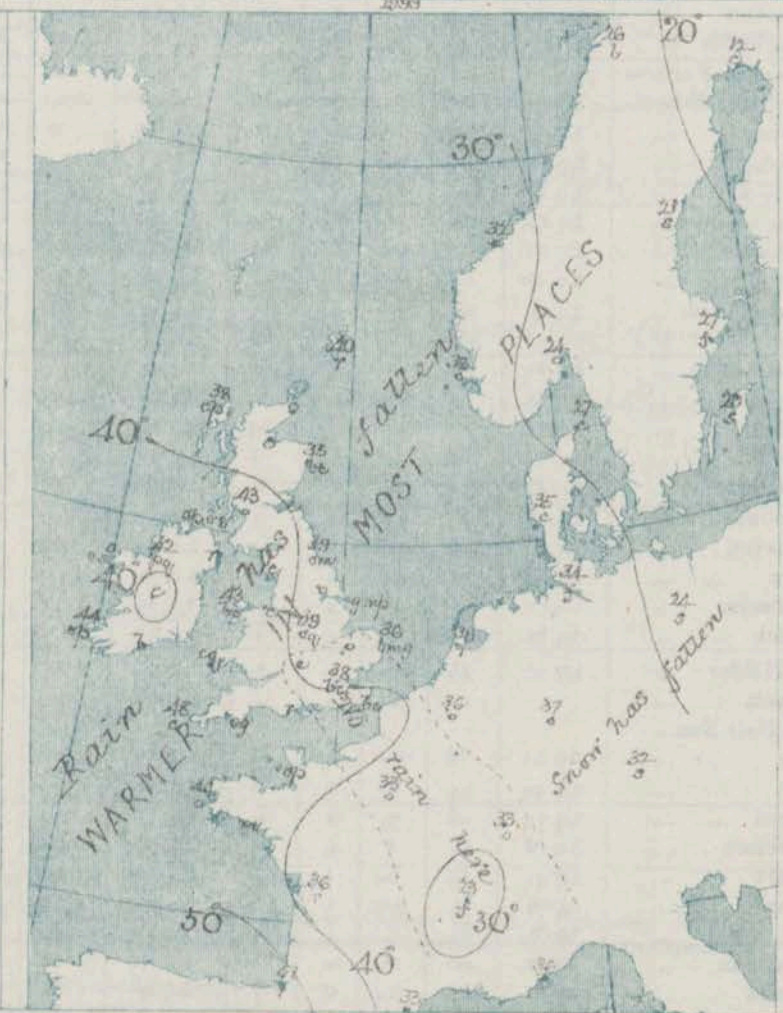
**Rainfall** A dotted line separates the districts in which rain has fallen from those where there has been none. Falls of 0.5 in. or more, are quoted in figures.

## MEANS OF TEMPERATURE IN SHADE. AND RAINFALL.

for the month of December.

STATIONS	TEMPERATURE.				RAINFALL. (Inches)
	Daily Max.	Daily Min.	At 5 a.m.		
			Dry.	Wet.	
Sumburgh Head	42.0	34.5	39.0	37.6	4.73
Stornoway	44.8	33.5	38.9	37.8	5.60
Wick	42.0	32.1	37.8	36.4	3.18
Nairn	41.5	32.8	36.9	35.4	2.08
Aberdeen	41.8	32.9	36.9	35.3	8.34
Leith	44.3	33.6	38.4	37.0	2.01
Shields	42.8	34.3	39.2	36.9	2.74
York	42.5	31.9	36.2	35.4	2.45
Ardrossan	47.0	36.1	40.1	38.3	4.04
Donaghadee	46.7	36.1	40.1	39.1	2.84
Holyhead	46.8	39.6	42.9	41.3	3.84
Liverpool	43.6	35.7	39.1	37.4	2.70
Valencia	50.0	40.0	44.7	41.8	5.82
Roche's Point	47.7	39.3	42.9	41.4	4.74
Pembroke	47.1	40.4	43.7	42.6	4.06
Scilly	49.8	43.9	47.2	45.3	4.10
Hurst Castle	45.5	36.5	40.6	39.9	2.84
Dover	44.2	36.5	40.0	38.8	3.20
LONDON	44.5	33.9	38.1	37.1	2.14
Oxford	43.3	33.6	37.3	36.6	2.13
Cambridge	43.3	31.8	36.3	35.6	1.42
Yarmouth	42.2	33.8	37.9	37.2	2.95

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	<p>Highest, 30.04 in. at Lyons, 29.73 in. at Valencia, and 29.63 in. at Haparanda.</p> <p>Lowest, 29.23 in. at Simsbury Head, and 29.34 in. at Nisby.</p> <p>Gradients are moderate. Barometer is now rising in the extreme west.</p>
TEMPERATURE	<p>Highest, 51° at Biarritz, 48° at Sicily, 43° at Ardrossan.</p> <p>Lowest, 12° at Haparanda, 23° at Lyons, 24° at Berlin, 34° at Nisby.</p> <p>It was low over England early this morning, but is now rising quickly.</p>
WIND	<p>SE in Norway, SW to W over Germany, France and Great Britain, and NW in Ireland.</p> <p>Over the Bay of Biscay, it varied greatly, being ENE at Lorient, SE at Rochefort, and SW at Biarritz.</p>
WEATHER	<p>Cloudy and showery generally, equally locally in the west, foggy in other places. Snow is again falling in Germany and over the Baltic.</p>
SEA	<p>Rather rough at Mullaghmore and Howle Point, moderate or slight elsewhere.</p>

## PROBABLE CHANGES IN SYSTEM NOW PREVALENT

The depressions of yesterday have passed away to the eastward and northwards of our Islands, and although the barometer fell over our Islands during the night and early morning, and SW winds set in, it is now rising again in the far west, and the wind has veered to NW in Ireland.

This change seems likely to become general during the next twenty-four hours, with colder weather.

## FORECASTS

For the 24 hours ending at NOON on 25<sup>th</sup> DEC<sup>r</sup> 1886.

### DISTRICTS.

### FORECASTS.

0	SCOTLAND NORTH	W to NW winds, with falling temperature, some cold showers
1	SCOTLAND EAST	-----D°-----D°-----D°-----
2	ENGLAND N.E.	SW winds, mild and rather showery, then NW and much colder
3	ENGLAND EAST	-----D°-----D°-----D°-----
4	MIDLAND COUNTIES	Same as No 5
5	ENGLAND SOUTH	W breezes, with local showers, followed by cold NW winds and fair weather.

### DISTRICTS.

### FORECASTS.

6	SCOTLAND WEST	NW breezes, moderate or fresh; cold showers locally, temperature falling decidedly.
7	ENGLAND N.W.	-----D°-----D°-----D°-----
8	ENGLAND S.W.	-----D°-----D°-----D°-----
9	IRELAND NORTH	-----D°-----D°-----D°-----
10	IRELAND SOUTH	-----D°-----D°-----D°-----

### WARNINGS

NONE ISSUED.



# YESTERDAY'S 2 P.M. REPORTS.

	Bar.	Dry.	Wet.	Wind.	Wes.	Sea.		Bar.	Dry.	Wet.	Wind.	Wes.	Sea.
Skudesnaes ...	29.60	33	30	E 4	o	5	Holyhead ...	29.79	42	42	W 3	o	4
Sumburgh Head ...	29.45	38	36	NW 1	c	3	Valencia ...	29.87	47	44	WSW 3	o	3
Stornoway ...	29.56	38	37	SW 2	bp	1	Scilly ...	29.91	49	44	W 3	c	5
Aberdeen ...	29.59	36	34	W 2	b	2	Dungeness ...	29.74	42	39	WNW 4	b	3
Shields ...	29.68	39	36	SW 2	bc	2	London ...	29.78	43	40	W 3	bc	*
Ardrossan ...	29.67	43	43	WSW 2	bc	2	Yarmouth ...	29.63	39	35	NW 5	ag	5
Malin Head ...	29.66	41	41	SW 2	o	3	Jersey ...	29.91	46	42	WNW 3	b	3
Mullaghmore ...	29.73	42	41	SW 4	ap	3	Rocheport ...	30.04	51	48	S 3	b	2
Belmullet ...	29.73	45	43	W 6	o	*							

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

*The Continental Reports have not yet arrived*

### CHRISTMAS HOLIDAYS

The Daily Weather Report for Christmas Day will not be issued until Tuesday the 28<sup>th</sup> inst., and that for Sunday (26<sup>th</sup>) will not be issued until Wednesday, the 29<sup>th</sup>.

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

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

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

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

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# DAILY WEATHER REPORT.

for Saturday 25<sup>th</sup> DECEMBER

1886.

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

STATIONS.		† YESTERDAY EVENING.					8 A.M. TO DAY.										PAST 24 HOURS.		
		Barometer at 32° F. and Sea Level.	Temp. in Shade.	WIND.		Weather.	BAROMETER.		SHADE TEMP.			WIND.		Weather.	Sea (0 to 9.)	SHADE TEMP.		Amount of Rainfall.	
				Dirac.	Force. (0 to 12.)		Reading at 32° F. and Sea Level.	Difference from 8 a.m. yesterday.	Dry.	Wet.	Difference from 8 a.m. yesterday.	Dirac.	Force. (0 to 12.)			Max.	Min.		
SCANDINAVIA.	Haparanda ..	29.57	17	2	0	b	29.58	-0.05	14	12	+2	N	2	0	*	23	-4	0.04	
	Hernösand ...	29.54	17	2	0	o	29.61	+0.08	9	9	-12	Z	0	0	*	23	?	0.08	
	Stockholm ...	29.43	26	W	2	s	29.54	+0.10	24	23	-3	Z	0	0	*	32	25	0.08	
	Wisby ...	29.43	30	NE	6	o	29.55	+0.21	30	28	+1	W	4	0	*	32	19	—	
	Bodö ...	29.52	22	ESE	4	b	29.50	-0.02	23	20	-3	ESE	4	0	2	34	?	—	
	Christiansund...	29.32	15	NE	2	s	29.33	-0.06	33	32	+1	ESE	1	0	3	36	—	—	
	Skudesnaes ...	29.33	37	SSE	6	c	29.32	-0.11	36	36	0	SE	4	0	5	36	—	—	
	Christiania Fjord (Fjord)	29.44	27	N	2	o	?	?	28	27	+4	NNE	4	0	2	36	—	—	
	Skagen (The Scaw)	29.46	30	WSW	2	b	29.45	-0.04	35	33	+8	S	5	0	3	36	25	0.04	
	Fanö ...	29.39	33	S	4	o	29.43	-0.12	31	31	-4	S	2	0	*	36	28	—	
BRITISH ISLANDS.	Sumburgh Head	29.20	40	NNW	3	o	29.32	+0.09	36	35	-4	WSW	3	0	3	41	34	0.10	
	Stornoway ...	29.42	36	W	4	bpm	29.49	+0.22	34	34	-4	W	4	0	6	40	31	0.22	
	Wick ...	29.34	34	NW	1	b	29.48	+0.25	31	30	-3	W	3	0	1	36	29	0.05	
	Nairn ...	29.39	35	Z	0	c	29.54	+0.21	32	32	-3	W	1	0	1	38	30	0.13	
	Aberdeen...	29.36	36	W	4	b	29.57	+0.31	31	29	-4	WSW	2	0	1	39	30	0.03	
	Leith ...	29.48	38	W	1	bc	29.65	+0.30	35	33	-5	W	1	0	*	43	32	—	
	Shields ...	29.45	36	W	2	bc	29.71	+0.32	35	34	-4	W	3	0	2	42	32	—	
	Spurn Head ...	29.47	39	WNW	5	b	29.77	+0.27	36	35	-1	W	3	0	2	40	30	0.04	
	York ...	29.50	37	NW	2	b	29.78	+0.31	36	34	0	W	1	0	*	41	32	0.01	
	Loughborough	29.55	38	NW	3	c	29.83	+0.29	35	33	-4	W	3	0	*	43	34	0.11	
GERMANY.	Ardrossan ...	29.54	40	NNW	4	bc	29.71	+0.35	40	38	-3	WSW	3	0	2	43	36	0.10	
	Malin Head ...	29.59	43	NW	4	bpm	29.74	+0.32	37	37	-4	WSW	3	0	4	43	35	0.07	
	Mullaghmore ...	29.73	42	NW	6	cgp	29.79	+0.29	38	36	-4	SW	5	0	4	44	36	0.15	
	Belmullet ...	29.76	43	NW	4	o	29.80	+0.18	40	39	-1	WSW	3	0	*	43	38	0.05	
	Donaghadee ...	29.63	37	NNW	5	b	29.79	+0.36	32	32	-7	W	3	0	1	42	31	0.02	
	Barrow-in-Furness	29.57	39	NW	5	c	29.79	+0.24	39	37	-4	NW	4	0	*	43	38	0.07	
	Liverpool (Bidston)	29.61	40	NNW	5	c	29.83	+0.35	39	36	-3	WSW	5	0	4	43	37	0.09	
	Holyhead ...	29.69	42	NNW	6	bcy	29.86	+0.36	40	38	-3	WSW	4	0	4	44	40	0.12	
	Parsonstown ...	29.63	36	Z	0	b	29.90	+0.30	31	30	-6	Z	0	0	*	41	30	—	
	Valencia ...	29.92	42	NW	3	cp	29.96	+0.23	40	38	-4	NNW	2	0	2	47	37	0.08	
FRANCE & NETHERLANDS.	Roche's Point...	29.84	40	NW	3	b	29.95	+0.35	36	34	-6	NNW	1	0	3	46	32	0.02	
	Pembroke ...	29.77	45	NW	5	c	29.94	+0.37	43	42	-4	NNW	4	0	4	47	42	—	
	Scilly ...	29.83	49	NNW	7	c	30.00	+0.32	46	43	-2	NNW	5	0	5	50	43	0.02	
	Prawle Point ...	29.77	40	NW	5	b	29.98	+0.31	39	38	-7	NNW	3	0	4	49	35	0.03	
	Jersey ...	29.71	45	NW	5	cpg	30.01	+0.38	42	39	-2	W	3	0	3	50	40	0.06	
	Hurst Castle ...	29.66	41	NNW	4	cpg	29.94	+0.27	38	36	-7	W	4	0	2	47	35	0.09	
	Dungeness ...	29.49	44	W	4	r	29.88	+0.22	35	34	-9	W	3	0	3	46	32	0.09	
	London ...	29.59	41	W	4	o	29.92	+0.25	32	31	-6	W	2	0	*	45	32	0.13	
	Oxford ...	29.69	37	WSW	3	b	29.91	+0.30	34	32	-5	SW	3	0	*	43	33	0.09	
	Cambridge ...	29.50	36	SW	1	b	29.86	+0.28	33	32	-3	SW	1	0	*	41	29	0.14	
PENINSULA.	Yarmouth ...	29.46	38	W	3	o	29.77	+0.17	33	32	-3	NNW	4	0	4	38	32	0.10	
	Cuxhaven ...	29.53	34	S	3	s	29.76	+0.19	36	36	+2	SW	3	0	*	39	33	0.14	
	Berlin ...	29.67	30	SW	1	o	29.59	-0.17	31	31	+7	S	1	0	*	34	?	—	
	Wiesbaden ...	*	*	*	*	*	29.73	-0.11	36	35	-1	SW	2	0	*	39	34	0.04	
	Munich ...	29.72	?	E	5	?	29.73	-0.20	30	30	-2	W	1	0	*	36	31	0.08	
	The Helder ...	*	*	*	*	*	29.83	+0.03	36	35	0	WSW	4	0	*	38	35	0.02	
	Brussels ...	*	*	*	*	*	29.49	+0.10	33	33	0	SW	1	0	*	36	31	0.08	
	Cape Gris Nez...	29.67	36	SW	3	o	29.49	+0.10	33	33	0	SW	1	0	*	36	31	0.08	
	Brest ...	29.88	48	NNW	5	b	30.02	+0.20	44	42	0	NW	4	0	4	50	39	—	
	Lorient ...	29.88	47	NW	5	b	30.08	+0.30	43	41	-3	NW	1	0	5	30	39	—	



# WEATHER CHARTS

for 8 a.m. on Saturday 25<sup>th</sup> December 1886.

## 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 wind. 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.

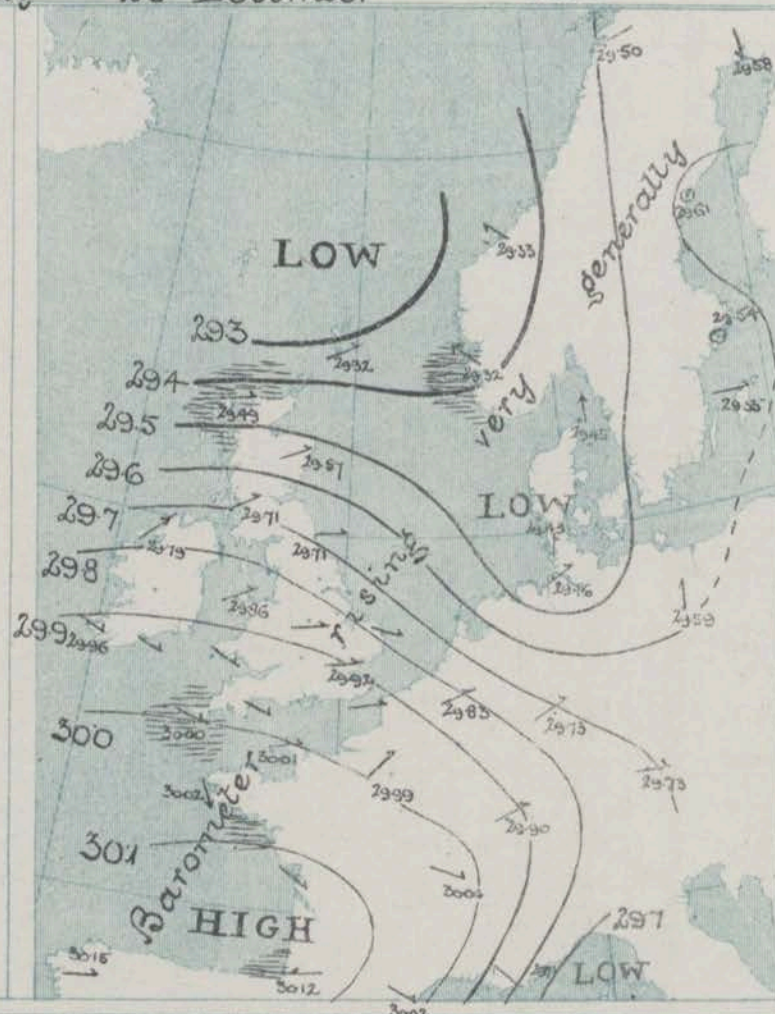
**Sea Disturbance** — where considerable is shown thus

▨ = Rough. ▨ = High.

## MEAN HEIGHT of the BAROMETER

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

STATIONS.	MEAN READINGS.
Sumburgh Head	29.680
Stornoway	29.701
Wick	29.713
Nairn	29.741
Aberdeen	29.750
Leith	29.800
Shields	29.836
York	29.877
Ardrossan	29.810
Donaghadee	29.832
Holyhead	29.858
Liverpool	29.882
Valencia	29.879
Roche's Point	29.889
Pembroke	29.897
Scilly	29.943
Hurst Castle	29.938
Dover	29.942
LONDON	29.934
Oxford	29.937
Cambridge	29.926
Yarmouth	29.902



## 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.

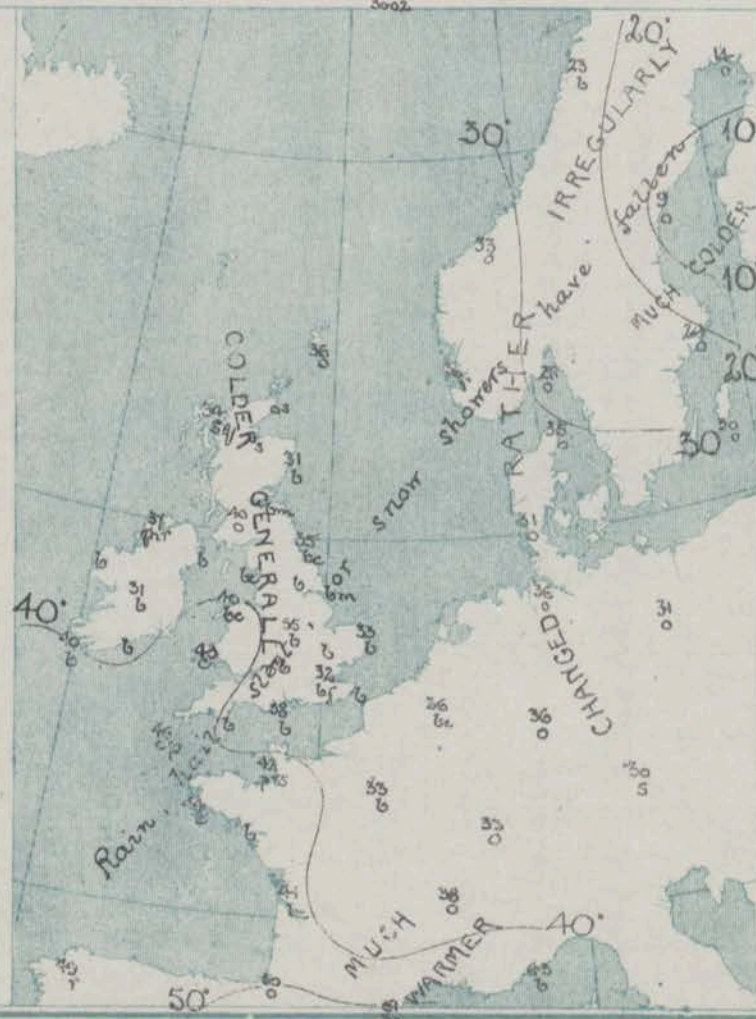
**Rainfall** A dotted line separates the districts in which rain has fallen from those where there has been none. Falls of 0.5 in. or more, are quoted in figures.

## MEANS OF TEMPERATURE IN SHADE. AND RAINFALL.

for the month of December.

STATIONS	TEMPERATURE.				RAINFALL. (Inches)
	Daily Max.	Daily Min.	At 8 a.m.		
			Dry	Wet.	
Sumburgh Head	42.0	34.6	39.0	37.6	4.33
Stornoway	44.8	33.5	38.9	37.8	5.66
Wick	42.0	32.1	37.8	36.4	3.19
Nairn	41.5	32.8	36.9	35.4	2.08
Aberdeen	41.8	32.9	36.9	35.3	3.34
Leith	44.3	33.6	38.4	37.0	2.01
Shields	42.8	34.3	39.2	36.9	3.74
York	42.5	31.9	36.2	35.4	2.45
Ardrossan	47.0	36.1	40.1	38.3	4.04
Donaghadee	46.7	36.1	40.1	39.1	2.84
Holyhead	46.8	39.6	42.9	41.3	2.84
Liverpool	43.6	35.7	39.1	37.4	2.70
Valencia	50.0	40.0	44.7	41.8	5.82
Roche's Point	47.7	39.3	42.9	41.4	4.74
Pembroke	47.1	40.4	43.7	42.6	4.06
Scilly	49.8	43.9	47.2	45.3	4.10
Hurst Castle	45.5	36.5	40.6	39.9	2.81
Dover	44.2	36.5	40.0	38.8	3.20
LONDON	44.5	33.9	38.1	37.1	2.14
Oxford	43.3	33.6	37.3	36.6	2.13
Cambridge	43.3	31.8	36.3	35.6	1.1
Yarmouth	42.2	33.8	37.9	37.2	2.95

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 in. and upwards over Spain, the southwest of France, and the southern part of the Bay of Biscay. Lowest, 29.3 in. and less in a depression lying to the northward of the Shetlands.
TEMPERATURE	{ Highest, 52° at Lisbon, 51° at Perpignan, 50° at Biarritz, and 46° at Lundy. Lowest, 9° at Hvosand, 14° at Haparanda, 23° at Rode, 24° at Stockholm, and 31° at Wick, Aberdeen, Harwich. Frost occurred last night in many parts of the Kingdom.
WIND	{ Moderate W. in our Islands, and NW. over the greater part of France. Light SW. in Germany, S. in Denmark, and SE. or E. in the north-west of France.
WEATHER	{ Fine over England, Ireland and France. Dull elsewhere, with snow in the north of Scotland and also at Munich and rain at Cologne. Rain or sleet fell yesterday over the greater part of the Kingdom.
SEA	{ Rough at Stormy and rather rough at the mouth of the Channel, but moderate to smooth elsewhere.

## PROBABLE CHANGES IN SYSTEM NOW PREVALENT

An area of low pressure is still lying to the northward of our Islands, but the small depression which existed yesterday over the Baltic has disappeared.

The barometer is at present rising generally, and there is no sign of any new disturbances.

## FORECASTS

For the 24 hours ending at NOON on 26<sup>th</sup> Dec 1886.

### DISTRICTS.

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

### FORECASTS.

NONE ISSUED

### DISTRICTS.

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

### WARNINGS

### FORECASTS.

NONE ISSUED

NONE ISSUED.



# YESTERDAY'S 2 P.M. REPORTS.

	Bar.	Dry.	Wet.	Wind.	Wes.	Sea.		Bar.	Dry.	Wet.	Wind.	Wes.	Sea.		
Skudesnaes ...	29.38	38	36	SSE	6	0	5	Holyhead ...	29.55	43	41	NW	7	0g	5
Sumburgh Head	29.19	38	37	L	0	0	1	Valencia ...	29.85	46	42	N	4	0g	4
Stornoway ...	29.38	38	37	WSW	4	Brs	3	Scilly ...	29.75	48	44	NW	7	c	6
Aberdeen ...	29.30	36	34	NW	4	r	1	Dungeness ...	29.51	44	44	W	5	r	3
Shields ...	29.37	39	37	WSW	3	c	2	London ...	29.50	46	44	W	2	0p	*
Ardrossan ...	29.49	40	39	WNW	4	r	3	Yarmouth ...	29.47	38	38	WSW	3	0dm	4
Malin Head ...	29.64	39	39	WNW	4	0	5	Jersey ...	29.64	49	46	W	5	c	4
Mullaghmore ...	29.65	45	39	WNW	6	Bcgg	6	Rochefort ...	29.84	51	51	WNW	7	r	2
Belmullet ...	29.73	45	40	NNW	5	c	*								

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

The reports for yesterday morning showed that pressure was highest (30.1 ins. and more) over Spain and the north of Africa, lowest about 29.3 ins. in a depression off our northern coast, and also in another one near Misby (Gotthland). In addition to this another shallow depression lay near Corsica and Italian coast. Thus the winds over Europe varied from S. to W. and NW., but were not strong in force. The weather was changeable, cloudy and rather showery (except in the south of France) and temperature was very variable. The thermometric readings ranged from 50° and upwards in Portugal, the western part of Algeria and the south-eastern parts of the Mediterranean to somewhat below the freezing point over the Baltic, Germany, Austria and Russia and to less than 15° F over Northern Europe. The highest individual readings recorded were 57° at Nemours and Orlan (Algeria) 53° at Malta, and 52° at Lisbon and Constantinople; the lowest 12° at Haparanda, 15° at Stockholm, 19° at Archangel, 23° at St. Petersburg, Riga, Moscow and Lyons, 24° at Berlin, and 27° at Vienna and Odesa. Over the British Isles the air was comparatively mild.

During the day the weather improved greatly over the United Kingdom and temperature fell, but snow and sleet showers were still reported in a few 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 Sunday 26<sup>th</sup> DECEMBER 1886.

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

		+ YESTERDAY EVENING.					8 A.M. TO DAY.										PAST 24 HOURS.		
STATIONS.		Barometer at 32° F. and Sea Level.	Temp. in Shade.	WIND.		Weather.	BAROMETER.		SHADE TEMP.			WIND.		Weather.	Sea. (0 to 9.)	SHADE TEMP.		Amount of Rainfall.	
				Dirac.	Force (0 to 12.)		Reading at 32° F. and Sea Level.	Difference from 8 a.m. yesterday.	Dry.	Wet.	Difference from 8 a.m. yesterday.	Dirac.	Force (0 to 12.)			Max.	Min.		
		Inch.	°				Inch.	Inch.	°	°	°					°	°	Inch.	
Haparanda ..		29.69	12	Z	0	0	29.83	+ .25	12	11	- 2	Z	0	0	*	16	- 4	-	
Hernösand ...		29.72	17	Z	0	0	29.73	+ .12	21	21	+ 12	E	2	5	*	?	5	0.08	
Stockholm ...		29.76	22	Z	0	0	29.78	+ .24	30	29	+ 6	SE	2	f	*	?	19	-	
Wisby ...		29.70	28	N	4	0	29.76	+ .21	33	32	+ 3	S	4	0	*	?	23	-	
Bodö ...		29.52	27	E.E.	1	0	29.61	+ .12	2	19	- 3	E.N.E.	0	b	2	20	17	-	
Christiansund...		29.39	?	ESE	3	0	29.44	+ .02	30	29	- 3	ESE	4	b	3	?	25	0.29	
Skudesnaes ...		29.53	39	WNW	4	0	29.50	+ .18	37	36	+ 1	SSW	4	r	4	?	26	-	
Christiania Fjord (Fjord)		29.51	36	ESE	6	r	29.67	?	28	28	0	NNW	2	0	2	36	21	-	
Skagen (The Scaw)		29.50	36	NW	4	0	29.68	+ .23	35	39	0	SW	2	b	1	36	30	0.04	
Fanö ...		29.45	35	W	4	0	29.76	+ .33	37	36	+ 6	SW	4	c	*	37	30	0.35	
Sumburgh Head		29.27	40	WSW	4	b	29.50	+ .18	36	32	0	WNW	4	b	4	41	33	0.16	
Stornoway ...		29.46	35	SW	4	b	29.64	+ .15	30	32	- 1	W	3	cps	2	41	29	0.11	
Wick ...		29.44	34	SW	2	0	29.63	+ .15	28	27	- 3	N	1	0	1	36	26	0.07	
Nairn ...		29.44	36	W	3	b	29.64	+ .10	32	31	- 1	W	1	c	1	37	28	0.08	
Aberdeen...		29.50	36	SW	4	b	29.60	+ .09	29	28	- 2	W	1	b	1	36	28	-	
Leith ...		29.61	38	W	1	b	29.70	+ .05	34	34	- 1	NW	1	m	*	40	32	0.31	
Shields ...		29.72	37	SSW	0	b	29.73	+ .02	36	35	+ 1	SW	2	0	2	40	33	-	
Spurn Head ...		29.84	38	WSW	0	b	29.83	+ .06	35	35	- 1	SW	3	cg	2	38	34	-	
York ...		29.77	37	WNW	1	b	29.81	+ .03	35	34	- 1	S	1	0	*	41	34	-	
Loughborough		29.90	35	WSW	2	b	29.85	+ .02	35	35	0	E	1	og	*	40	34	-	
Ardrossan ...		29.65	42	SW	4	0	29.69	- .02	40	39	0	W	2	0	2	40	36	0.15	
Malin Head ...		29.64	38	W	3	0	29.70	- .04	34	34	- 3	SSW	2	orp	2	41	34	0.25	
Mullaghmore ...		29.75	42	WSW	6	0	29.75	- .04	39	38	+ 1	NNW	5	c	4	42	36	0.11	
Belmullet ...		29.79	42	W	4	b	29.77	- .03	39	37	- 1	WNW	2	?	*	43	37	0.05	
Donaghadee ...		29.76	37	WSW	3	b	29.75	- .04	34	34	+ 2	WSW	3	b	1	40	32	-	
Barrow-in-Furness		29.78	41	SSE	3	0	29.79	- .00	41	39	+ 2	W	2	0	*	43	38	0.08	
Liverpool (Bidston)		29.84	39	SW	2	b	29.78	- .05	37	35	- 1	SW	2	0	2	41	37	-	
Holyhead ...		29.85	43	SW	3	b	29.79	- .07	40	38	0	WSW	1	0	2	44	39	-	
Parsonstown ...		29.87	36	Z	0	b	29.81	- .09	33	32	+ 2	Z	0	og	*	40	30	0.04	
Valencia ...		29.92	41	NW	2	c	29.81	- .15	39	38	- 1	NNE	2	og	2	47	36	0.19	
Roche's Point...		29.91	42	WSW	3	b	29.78	- .17	37	36	+ 1	NNW	1	0	3	45	35	0.02	
Pembroke ...		29.91	44	WNW	2	c	29.79	- .15	41	41	- 2	ESE	2	r	2	46	41	0.25	
Scilly ...		29.97	46	WSW	4	0	29.66	- .34	47	46	+ 1	SSE	6	r	5	48	43	0.34	
Prawle Point ...		30.00	41	NW	3	b	29.80	- .18	43	42	+ 4	S	2	r	3	47	37	0.27	
Jersey ...		30.02	43	W	2	b	29.88	- .13	42	40	0	SSW	5	ogm	4	47	40	0.19	
Hurst Castle ...		29.99	40	W	4	b	29.87	- .07	43	43	+ 5	SW	1	or	1	45	38	0.09	
Dungeness ...		29.96	36	WNW	3	b	29.91	+ .03	41	41	+ 6	W	4	r	2	46	34	0.04	
London ...		29.76	34	W	2	b	29.89	- .03	38	37	+ 6	S	1	om	*	42	31	0.22	
Oxford ...		29.97	35	SW	2	b	29.88	- .03	35	34	+ 1	ESE	2	rg	*	42	32	0.02	
Cambridge ...		29.93	34	SW	1	b	29.88	+ .02	34	33	+ 1	S	1	0	*	42	29	-	
Yarmouth ...		29.88	36	WNW	2	b	29.88	+ .11	34	33	+ 1	WSW	2	b	3	38	31	-	
Cuxhaven ...		?	37	WNW	2	c	29.90	+ .44	31	30	- 5	SW	3	m	*	37	30	0.28	
Berlin ...		29.74	35	SW	1	0	30.00	+ .41	32	31	+ 1	WNW	2	0	*	36	?	0	
Wiesbaden ...		*	*	*	*	*	30.13	+ .40	34	33	- 2	Z	0	0	*	39	31	-	
Munich ...		30.05	31	W	4	c	30.17	+ .44	29	?	- 1	W	4	0	*	36	28	0.12	
The Helder ...		29.88	40	W	3	b	29.90	- .11	40	38	-	SW	3	b	3	43	39	-	
Brussels ...		*	*	*	*	*	30.04	+ .21	33	33	- 3	S	1	0	*	40	33	-	
Cape Gris Nez...		*	*	*	*	*	30.09	+ .10	32	32	- 1	S	1	0	*	43	31	-	
Paris ...		30.08	38	SW	3	b	30.09	+ .10	32	32	- 1	S	1	0	*	43	31	-	
Brest ...		30.06	46	W	3	0	?	?	46	45	+ 2	SE	4	r	4	39	39	0.12	
Lorient ...		?	44	SSE	1	b	29.88	- .20	48	46	- 5	SE	4	r	5	48	41	-	
Rochefort ...		30.16	44	SSE	4	0	30.07	?	37	36	- 4	SE	5	c	2	48	30	-	
Belfort ...		*	*	*	*	*	30.18	+ .14	27	24	- 11	NNW	1	b	*	40	26	-	
Lyons ...		30.17	34	NW	1	b	30.18	+ .14	27	24	- 11	NNW	1	b	*	40	26	-	
Nice ...		29.89	44	E	1	b	30.06	+ .35	40	34	- 3	E	3	b	2	50	36	-	
Perpignan ...		30.10	47	N	3	b	30.12	+ .10	31	31	- 20	SW	3	b	*	31	30	-	
Biarritz ...		30.10	49	E	3	b	30.01	- .11	41	39	- 9	SSE	4	b	2	57	37	0.04	
Corunna ...		*	*	*	*	*	30.09	- .09	30	30	- 2	ENE	3	0	2	54	30	-	
Lisbon ...		30.11	53	SW	3	0	30.09	- .09	30	30	- 2	ENE	3	0	2	54	30	-	

For Explanation of Columns, see p. 4.



for 8 a.m. on Sunday, 26<sup>th</sup> December. 1886.

(Explanation of Map)

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

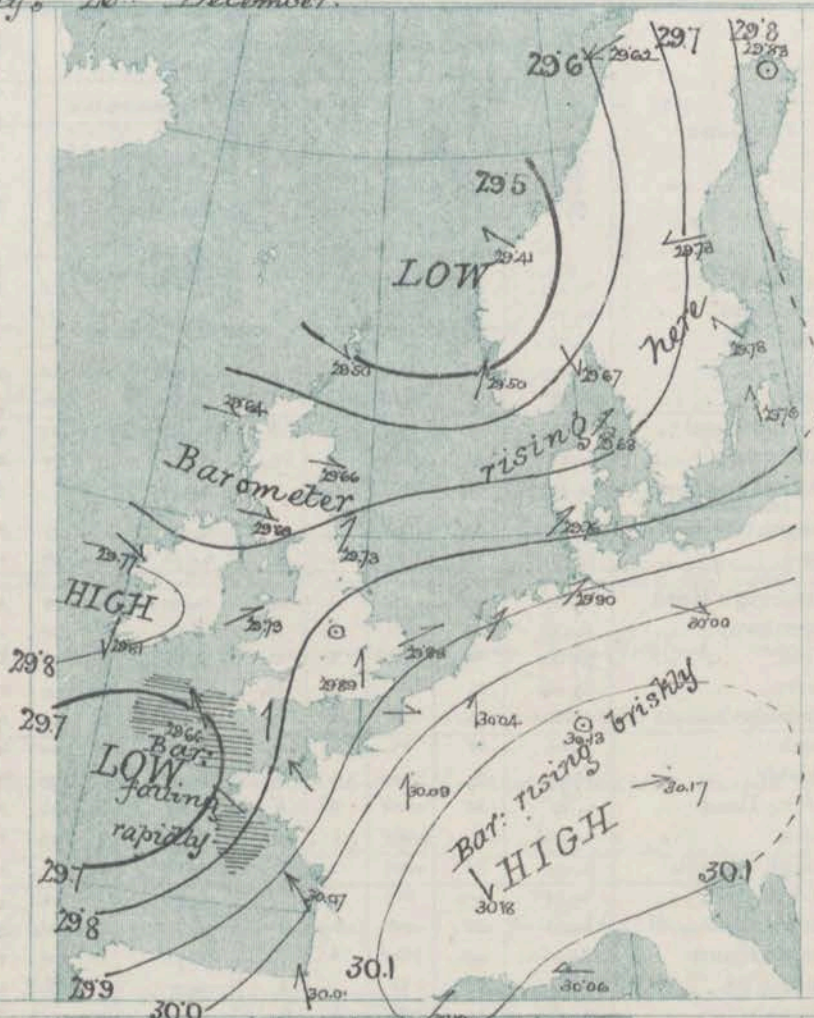
$\bullet \longrightarrow$  = forces above 10,  $\bullet \longrightarrow$  = forces 8 to 10,  
 $\longrightarrow$  = forces 5 to 7,  $\longrightarrow$  = forces 1 to 4.

⊙ = dead calm.

Sea Disturbance—where considerable is shewn thus

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

STATIONS.	MEAN READINGS.
	<i>ms.</i>
Sumburgh Head	29.680
Stornoway	29.701
Wick	29.713
Nairn	29.741
Aberdeen	29.750
Leith	29.800
Shields	29.836
York	29.877
Ardrossan	29.810
Donaghadee	29.832
Holyhead	29.858
Liverpool	29.882
Valencia	29.879
Roche's Point	29.889
Pembroke	29.897
Scilly	29.943
Hurst Castle	29.938
Dover	29.912
LONDON	29.934
Oxford	29.937
Cambridge	29.926
Yarmouth	29.902



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.

for the month of December:

STATIONS	TEMPERATURE				RAINFALL (Inches)
	Daily Max.	Daily Min.	At 5 a.m.		
			Dry	Wet.	
Samburgh Head	42.0	34.5	39.0	37.6	4.93
Sornoway	44.8	33.5	38.9	37.8	5.66
Wick	42.0	32.1	37.8	36.4	3.18
Nairn	41.5	32.8	36.9	35.4	2.08
Alrodeen	41.8	32.9	36.9	35.3	3.34
Leith	44.3	33.6	38.4	37.0	2.01
Shields	42.8	34.3	39.2	36.9	2.74
York	42.5	31.9	36.2	35.4	2.45
Ardrossan	47.0	36.1	40.1	38.3	4.04
Donaghadee	46.7	36.1	40.1	39.1	2.84
Holyhead	46.8	39.6	42.9	41.3	3.84
Liverpool	43.6	35.7	39.1	37.4	2.70
Valencia	50.0	40.0	44.7	41.8	5.82
Roche's Point	47.7	39.3	42.9	41.4	4.74
Pembroke	47.1	40.4	43.7	42.6	4.06
Scilly	49.8	43.9	47.2	45.3	4.10
Hurst Castle	45.6	36.5	40.6	39.9	2.81
Dover	44.2	36.5	40.0	38.8	3.20
LONDON	44.5	33.9	38.1	37.1	2.14
Oxford	43.3	33.6	37.3	36.6	2.13
Cambridge	43.3	31.8	36.3	35.6	1.32
Yarmouth	42.2	33.8	37.9	37.2	2.95

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 an anticyclone lying over Germany and the east and south of France. Lowest, 29.5 ins. and less, in a depression lying off the coast of Norway, but relatively low 29.7 ins. and less in another depression off our south-west coast.
TEMPERATURE	Highest, 50° at Linton, 48° at Lorient, and 47° at Lally. Lowest, 12° at Haparanda, 20° at Bodø, 21° at Helsingfors, 27° at Lyons and 29° at Aberdeen and Wuenisch. Frost occurred last night over the greater part of the United Kingdom.
WIND	Fresh to strong from the SE <sup>W</sup> over the Bay of Biscay, and the mouth of the Channel. Light S in the south of England, and NW on our northern coasts. Moderate SW on the eastern shores of the North Sea.
WEATHER	Fine in the east of Great Britain, but cloudy elsewhere, with rain in the S. of England and NW. of France. Snow showers fell in Scotland yesterday.
SEA	Rather rough at the mouth of the Channel, but moderate to smooth elsewhere.

## PROBABLE CHANGES IN SYSTEM NOW PREVALENT

In the course of the past night a brisk fall of the barometer has set in on our extreme south-west coasts due apparently to the advance of a well defined depression from the W<sup>W</sup>. The disturbances in the north is slowly filling up.

## FORECASTS

for the 24 hours ending at NOON on 27<sup>th</sup> DEC<sup>r</sup> 1886.

### DISTRICTS.

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

### FORECASTS.

NONE ISSUED

### DISTRICTS.

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

### WARNINGS

### FORECASTS.

NONE ISSUED.

The south cone has been hoisted this morning in districts 3, 5 and 8. An asterisk is inserted against those districts in which the signals are not flying.



# YESTERDAY'S 2 P.M. REPORTS.

	Bar.	Dry.	Wet.	Wind.	Wea.	Sea.		Bar.	Dry.	Wet.	Wind.	Wea.	Sea.
Skudesnaes ...	29.45	40	36	WNW 4	c	4	Holyhead ...						
Sumburgh Head ...							Valencia ...						
Stornoway ...							Scilly ...						
Aberdeen ...							Dungeness ...						
Shields ...							London ...						*
Ardrossan ...							Yarmouth ...						
Malin Head ...							Jersey ...						
Mullaghmore ...							Rochefort ...	30.7	47	45	SSE 3	m	3
Belmullet ...						*							

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

Yesterday morning's observations showed that while pressure was as high as 30.1 ins. and upwards over the Bay of Biscay and Spain, and nearly 30.0 ins. over Southern Russia, it decreased gradually from these regions to about 29.3 ins. over the Shetland Isles and the west of Norway. The wind was consequently moderate from the W<sup>2</sup> over the British Isles and from NW. in France, while it was moderate from S. and SE. over Germany and the eastern shores of the North Sea, and nearly calm over the Baltic. In the south of France owing to the presence of a shallow depression over the Gulf of Genoa there was a strong wind from NW. The weather had improved greatly over the British Isles and France, but was still showery locally, while on the shores of the Baltic it was cloudy and showery. Temperature varied from rather above 50° in Portugal, and over the eastern and southern shores of the Mediterranean to several degrees below the freezing point over Germany, Austria the Baltic and Russia, and to 14° F or less over Finland. The highest individual readings were 53° at Oran (Algiers) 54° at Oporto, Malta, Rhindia, Cagliari and Sanguinaria, and 51° at Constantinople; the lowest 9° at Herne, and 13° at Uleaborg and Kuopio, 14° at Haparanda, 22° at Cracow, 24° at Kiev, 30° at Munich, 31° at Aberdeen and Harrowtown, and 32° in London.

During the day little change occurred over Western Europe beyond a slight fall of the barometer off our SW. coast, where also the sky began to look unsettled towards night.

### EXPLANATION OF COLUMNS GIVEN ON PAGE 1.

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

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

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

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



# DAILY WEATHER REPORT.

for Monday 27<sup>th</sup> DEC<sup>r</sup> 1886.

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

Issued by the Meteorological Office, No. 1, Victoria Road, S.W.																		
STATIONS.	+ YESTERDAY EVENING.					8 A.M. TO DAY.										PAST 24 HOURS.		
	Barometer at 32° F. and Sea Level.	Temp. in Shade.	WIND.		Weather.	BAROMETER.		SHADE TEMP.			WIND.		Weather.	Sea. (0 to 9.)	SHADE TEMP.		Amount of Rainfall.	
			Direc.	Force. (0 to 12.)		Reading at 32° F. and Sea Level.	Difference from 8 a.m. yesterday.	Dry.	Wet.	Difference from 8 a.m. yesterday.	Direc.	Force (0 to 12.)			Max.	Min.		
Ins. Ins. °																		



# WEATHER

# CHARTS

for 8 a.m. on

Monday

27<sup>th</sup> December

1886.

## BAROMETER, WIND & SEA.

(Explanation of Map)

**Barometer** — Isochors 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.

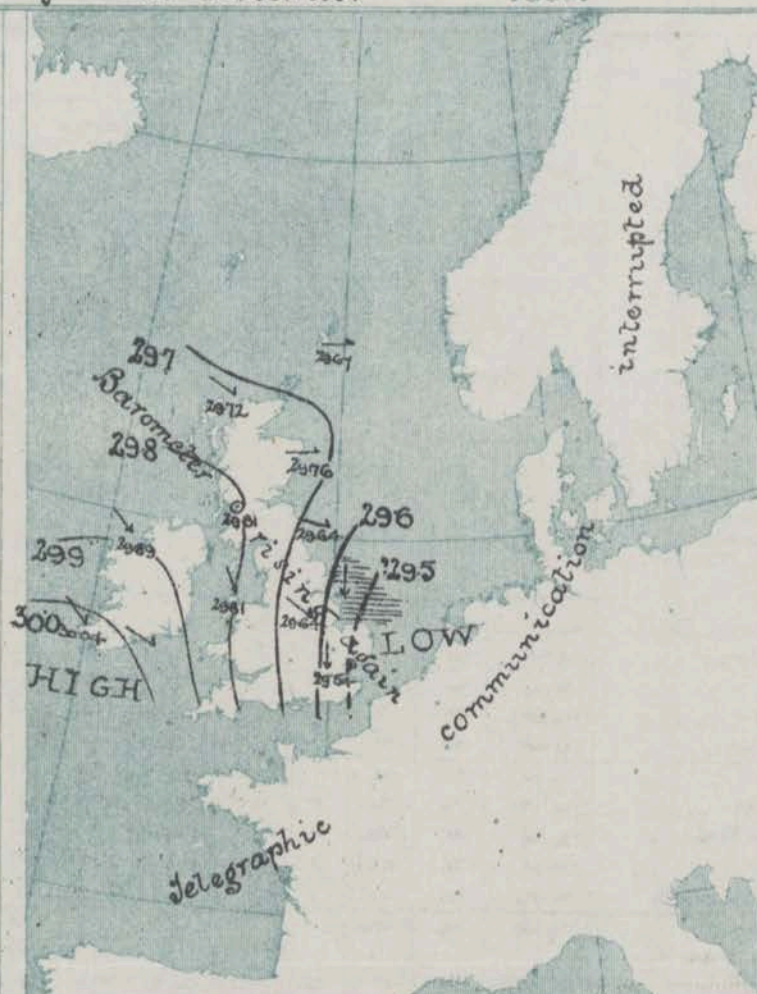
**Sea Disturbance** — where considerable is shown thus

■ = Rough. ■ = High.

## MEAN HEIGHT of the BAROMETER

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

STATIONS.	MEAN READINGS.
	in.
Sumburgh Head	29.680
Stornoway	29.701
Wick	29.713
Nairn	29.741
Aberdeen	29.750
Leith	29.800
Shields	29.836
York	29.877
Ardrossan	29.810
Donaghadee	29.832
Ballyhead	29.858
Liverpool	29.882
Valencia	29.879
Roche's Point	29.889
Pembroke	29.897
Scilly	29.943
Hurst Castle	29.938
Dover	29.942
LONDON	29.934
Oxford	29.927
Cambridge	29.926
Yarmouth	29.902



## 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 December.

STATIONS	TEMPERATURE				RAINFALL (Inches)
	Daily Max.	Daily Min.	At 8 a.m.		
			Dry.	Wet.	
Sumburgh Head	42.0	34.5	39.0	37.6	4.33
Stornoway	44.8	33.5	38.9	37.8	5.66
Wick	42.0	32.1	37.8	36.4	3.18
Nairn	41.5	32.8	36.9	35.4	2.08
Aberdeen	41.8	32.9	36.9	35.3	3.34
Leith	44.3	33.6	38.4	37.0	2.01
Shields	42.8	34.3	39.2	36.9	2.74
York	42.5	31.9	36.2	35.4	2.45
Ardrossan	47.0	36.1	40.1	38.3	4.04
Donaghadee	46.7	36.1	40.1	39.1	2.84
Ballyhead	46.8	39.0	42.9	41.3	3.84
Liverpool	43.6	35.7	39.1	37.4	2.70
Valencia	50.0	40.0	44.7	41.8	5.82
Roche's Point	47.7	39.3	42.0	41.4	4.74
Pembroke	47.1	40.4	43.7	42.6	4.06
Scilly	49.8	43.9	47.2	45.3	4.10
Hurst Castle	45.5	36.5	40.6	39.9	2.84
Dover	44.2	36.5	40.0	38.8	3.20
LONDON	44.5	33.9	38.1	37.1	2.14
Oxford	43.3	35.6	37.3	36.6	2.13
Cambridge	43.3	31.8	36.3	35.6	1.99
Yarmouth	42.2	33.8	37.9	37.2	2.95

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

TEMPERATURE

WIND

WEATHER

SEA

The reports from the southern parts of England and from the Continental stations are all wanting; and it is therefore impossible to prepare the usual statements as to the conditions existing over Western Europe.

## PROBABLE CHANGES IN SYSTEM NOW PREVALENT

The depression which was approaching the south-west of England yesterday proves to have been deep and has since travelled in an easterly or an east-north-easterly direction along the Channel. Its progress has apparently been marked by gales from the SE<sup>th</sup> backing to NE or N and heavy snow-storms in the south of England.

In London the amount, since yesterday morning, of rain and snow combined has been as much as 1.34 inches. The barometer is now rising at all our more northern stations as well as in London and the weather is rapidly improving. Light SW<sup>th</sup> breezes prevail in Scotland, but fresh to strong winds from NW or N over the north of England. Temperature ranges from 46° at Valencia to 19° at Nairn. The sea is slight or smooth on our more northern coasts.

## FORECASTS

for the 24 hours ending at NOON on 28<sup>th</sup> December 1886.

### DISTRICTS.

### FORECASTS.

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

The information to hand is too scanty to admit of the preparation of forecasts.

### DISTRICTS.

### FORECASTS.

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

### WARNINGS

The S-cone was hoisted yesterday morning in districts 3, 5 and 8. An asterisk is inserted against those districts in which the signals are now flying.

None issued



# YESTERDAY'S 2 P.M. REPORTS.

	Bar.	Dry.	Wet.	Wind.	Wen.	Sea.		Bar.	Dry.	Wet.	Wind.	Wen.	Sea.
Skudesnaes ...	29.63	39	35	W/W 2	c	4	Holyhead ...						
Sumburgh Head ...							Valencia ...						
Stornoway ...							Scilly ...						
Aberdeen ...							Dungeness ...						
Shields ...							London ...						
Ardrassan ...							Yarmouth ...						
Malin Head ...							Jersey ...						
Mullaghmore ...							Rochefort ...	29.95	44	41	S 7	0	2
Belmullet ...													

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

The Continental Reports have not yet been received.

### SUMMARY OF CHANGES IN THE WEATHER OVER THE BRITISH ISLANDS AND THEIR NEIGHBOURHOOD. FROM THE 19<sup>th</sup> TO THE 25<sup>th</sup> DECEMBER 1886.

The weather during this week has been of a most unsettled character. At first it was cold, with N.W. winds and showers of sleet or snow fell from time to time in a few localities. After the 20<sup>th</sup>, however, the high-pressure area which had till that date been lying off our western coasts, moved south-eastwards, and in its rear a large deep depression appeared in the west, and, moving eastwards reached the south of Scotland on the 22<sup>nd</sup>. Here it broke into two parts, one of which moved northwards and passed away to the northward of the Shetlands, while the other turned south-eastwards and reached Holland on the 23<sup>rd</sup>, whence it moved north-eastwards to the Baltic. This disturbance brought with it much rain, followed by sleet, and thunderstorms occurred in several places. It was followed by some irregular disturbances on Friday 24<sup>th</sup>, but on Saturday the weather had improved very much. Temperature has been very unsteady, the changes as the S.W. current of wind alternated with the N.W. or N., being sudden and at times considerable.

#### 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 Tuesday 28<sup>th</sup> December

1886.

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.	Rain (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 †...	29.90	15	N	1	S	29.86	+0.01	25	7	+10	S	2	O	*	?	10	0.08	
Hernösand †...	29.80	26	W	0	O	29.83	+0.04	19	19	-6	W	0	O	*	28	?	0.12	
Stockholm †...	29.85	31	W	0	O	29.73	-0.06	31	32	0	SE	2	S	*	32	28	0.04	
Wisby †...	29.87	32	ESE	1	O	29.65	-1.18	33	32	-2	SW	2	S	*	36	30	0.28	
Bodö †...	29.71	22	ENE	6	O	29.69	-0.02	23	20	+3	E	6	C	3	?	19	-	
Christiansund †...	29.62	26	SSW	4	6	29.54	-0.08	33	32	-1	ESE	4	6	3	37	30	-	
Skudesnaes †...	29.74	25	E	2	bc	29.51	-0.24	36	33	+4	SE	8	O	5	7	?	-	
Christiania Fjord † (Fiorder)	29.79	32	WNW	4	f	29.71	-0.06	31	?	+7	N	6	O	1	?	19	-	
Skagen (The Scaw)	29.74	38	ESE	4	O	29.64	-0.09	31	30	-3	E	4	O	2	36	30	0.04	
Fanø ...	29.59	31	NE	6	O	29.68	+0.11	24	24	-8	W	0	m	*	32	?	0.08	
BRITISH ISLANDS.																		
Sumburgh Head	29.53	39	SSW	4	C	29.28	-0.44	38	35	+1	SW	3	O	4	41	36	0.30	
Stornoway ...	29.27	39	S	7	hgy	29.28	-0.44	36	38	+7	SSW	4	bcgfp	4	40	27	0.41	
Wick ...	29.47	36	S	5	O	29.32	-0.41	33	32	+4	W	3	bc	1	37	17	0.20	
Nairn ...	29.45	36	SSW	3	O	29.37	-0.39	33	32	+4	SSW	2	6	1	40	19	0.02	
Aberdeen ...	29.65	38	SW	3	O	29.41	-0.35	32	30	+10	WSW	1	6	1	36	21	0.03	
Leith ...	29.71	34	W	1	m	29.51	-0.27	36	34	+7	W	1	6	*	43	28	0.02	
Shields ...	29.79	35	W	0	m	29.58	-0.06	38	35	+4	W	3	bc	2	41	32	0.04	
Spurn Head ...	29.82	37	W	5	6	29.71	+0.16	39	37	0	WSW	4	cm	3	40	35	0.12	
York ...	29.89	35	W	1	C	29.69	+0.03	38	35	+3	SW	2	6	*	40	34	-	
Loughborough	29.90	35	W	2	O	29.78	+0.14	38	36	+4	WSW	3	O	*	41	33	0.04	
GERMANY.																		
Ardrossau ...	29.66	38	S	4	hgy	29.54	-0.27	39	39	+13	WSW	4	q, p	3	40	26	0.34	
Malin Head ...	29.53	45	SW	6	od	29.48	-0.35	37	37	-3	WNW	3	q, hgy	5	45	35	0.29	
Mullaghmore ...	29.66	46	SW	5	N	29.64	-0.25	41	40	0	WSW	6	q, hgy	5	47	37	0.16	
Belmullet ...	29.69	43	W	8	om	29.68	-0.22	43	41	+2	WNW	9	0	*	48	38	0.26	
Donaghadee ...	29.70	38	SW	3	N	29.65	-0.19	36	35	+2	W	5	C	3	41	32	0.11	
FRANCE & NETHERLANDS.																		
Barrow-in-Furness	29.82	38	W	2	O	29.69	-0.06	41	38	+8	WSW	6	q, p	*	45	32	0.29	
Liverpool (Bidston)	29.87	34	WSW	2	O	29.75	-0.02	40	37	+5	WSW	6	6	3	46	35	0.07	
Holyhead ...	29.86	44	SW	4	O	29.77	-0.04	43	40	+2	WSW	4	q, p	4	47	39	0.05	
Parsonstown ...	29.83	46	W	2	N	29.79	-0.20	38	37	+3	W	2	q, p	*	47	34	0.16	
Valencia ...	29.95	50	WSW	6	q, p	29.94	-0.10	45	43	-1	W	6	q, p	6	51	41	0.07	
Roche's Point...	29.94	47	WSW	4	C	29.92	-0.10	43	41	+4	W	4	6	4	48	38	0.10	
Pembroke ...	29.93	46	WNW	5	O	29.90	+0.01	47	45	+7	W	6	O	5	48	40	0.10	
Scilly ...																		
Prawle Point ...																		
Jersey ...																		
FRANCE & NETHERLANDS.																		
Hurst Castle ...	30.03	37	WNW	4	6	29.93	+0.24	42	41	+7	WNW	4	q, p	2	43	34	0.03	
Dungeness ...																		
London ...	29.95	32	NW	2	6	29.87	+0.33	38	37	+3	WSW	1	6	*	41	32	0.10	
Oxford ...	29.97	35	NW	2	O	29.87	+0.20	38	35	+5	W	3	C	*	40	33	-	
Cambridge †...	29.85	34	WSW	1	O	29.84	+0.27	35	34	+1	SW	1	6	*	39	31	0.04	
Yarmouth ...																		
GERMANY.																		
Cuxhaven ...																		
Berlin †...	29.60	34	S	2	O	29.75	+0.04	34	33	+4	WNW	4	O	*	34	?	*	
Wiesbaden †...	*	*	*	*	*	30.03	+0.56	37	36	+3	SW	3	O	*	41	?	0.04	
Munich ...†...	29.83	35	W	7	6	30.13	+0.42	33	30	+13	W	5	C	*	39	?	-	
FRANCE & NETHERLANDS.																		
The Helder ...																		
Brussels ...	*	*	*	*	*									*				
Cape Gris Nez...																		
Paris ...														*				
Brest ...																		
FRANCE & NETHERLANDS.																		
Lorient ...																		
Rochefort ...																		
Belfort ...														*				
Lyons ...														*				
Nice ...														*				
Perpignan ...														*				
Biarritz ...														*				
PENINSULA.																		
Corunna ...	*	*	*	*	*													
Lisbon ...																		
† Received too late for use in the preparation of the Charts and Remarks.																		

† Received too late for use in the preparation of the Charts and Remarks.

For Explanation of Columns, see p. 4.



# WEATHER CHARTS

for 8 a.m. on *Tuesday, 28<sup>th</sup> December, 1886.*

## 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.

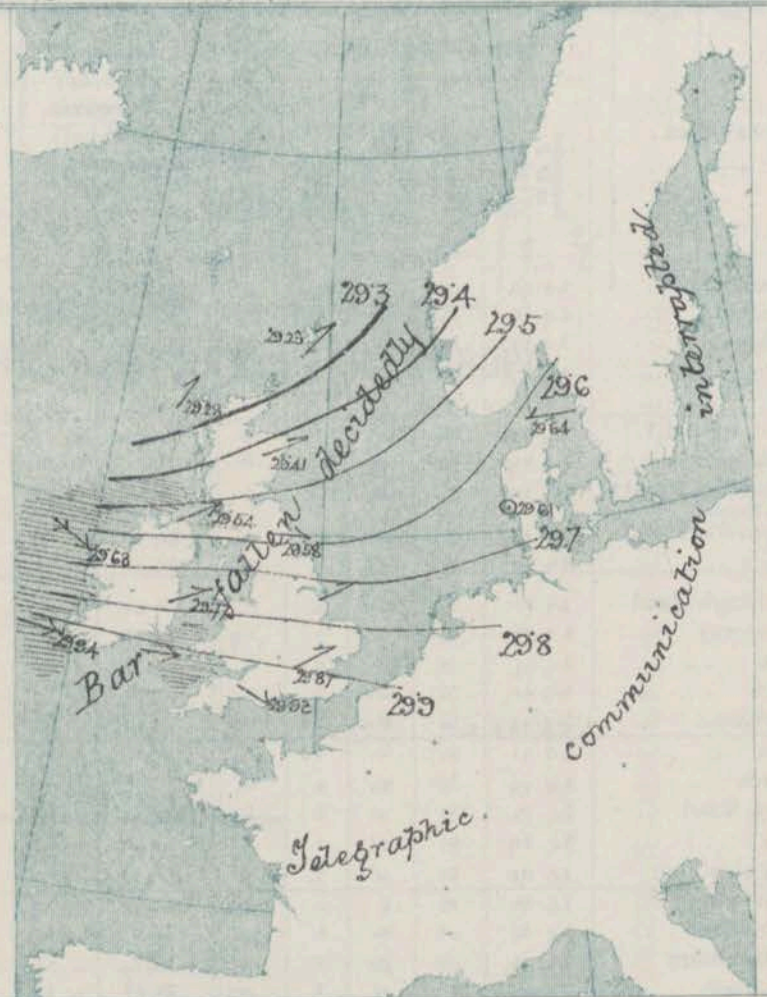
**Sea Disturbance** — where considerable is shown thus

▨ = Rough. ▨ = High.

## MEAN HEIGHT of the BAROMETER

at 8 a.m. for the month of December.  
During the 10 years 1871—1880.

STATIONS.	MEAN READINGS.
	in.
Sumburgh Head	29.680
Stornoway	29.701
Wick	29.718
Nairn	29.741
Aberdeen	29.750
Leith	29.800
Shields	29.836
York	29.877
Ardrossan	29.810
Donaghadee	29.832
Holyhead	29.858
Liverpool	29.882
Valencia	29.879
Roche's Point	29.889
Pembroke	29.897
Scilly	29.943
Hurst Castle	29.938
Dover	29.912
LONDON	29.934
Oxford	29.937
Cambridge	29.926
Yarmouth	29.902



## 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 December.

STATIONS	TEMPERATURE.				RAINFALL. (Inches).
	Daily Max.	Daily Min.	At 8 a.m. Dry.	Wet.	
Sumburgh Head	42.0	34.5	39.0	37.6	4.33
Stornoway	41.8	33.5	38.9	37.8	5.66
Wick	42.0	32.1	37.8	36.4	3.18
Nairn	41.5	32.8	36.9	35.4	2.08
Aberdeen	41.8	32.9	36.9	35.3	3.34
Leith	44.3	33.6	38.4	37.0	2.01
Shields	42.8	34.3	39.2	36.9	2.74
York	42.5	31.9	36.2	35.4	2.45
Ardrossan	47.0	36.1	40.1	38.3	4.04
Donaghadee	46.7	36.1	40.1	39.1	2.84
Holyhead	46.8	39.6	42.9	41.3	3.84
Liverpool	43.6	35.7	39.1	37.4	2.70
Valencia	50.0	40.0	44.7	41.8	5.82
Roche's Point	47.7	39.3	42.9	41.4	4.74
Pembroke	47.1	40.4	43.7	42.6	4.06
Scilly	49.8	43.9	47.2	45.3	4.10
Hurst Castle	45.5	36.5	40.6	39.9	2.84
Dover	44.2	36.5	40.0	38.8	3.20
LONDON	44.5	33.9	38.1	37.1	2.14
Oxford	43.3	35.6	37.3	36.6	2.13
Cambridge	43.3	31.8	36.3	35.6	1.99
Yarmouth	42.2	33.8	37.9	37.2	2.95

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 {

TEMPERATURE {

WIND {

WEATHER {

SEA {

The reports from many of our southern and nearly all the

Continental stations are again wanting, and it is therefore impossible to prepare

the usual statement as to the conditions existing over Western Europe.

## PROBABLE CHANGES IN SYSTEM NOW PREVALENT

In the course of the past 24 hours the barometer has fallen in all parts of our Islands, and a new depression has appeared off the north of Scotland. Light SW<sup>y</sup> breezes and fine weather prevail on our north and east coasts, but strong W<sup>y</sup> winds and cold showers at many of our western stations. Temperature has risen generally and readings over our Islands now range from 47° at Kilmalee to 32° at Aberdeen.

With the limited information to hand it is impossible to forecast with any certainty. The depression in the north seems likely to move East, and in its rear some increase of wind from the NW<sup>y</sup> is probable on our western and northern coasts.

## FORECASTS

for the 24 hours ending at NOON on 29<sup>th</sup> DEC

1886.

### DISTRICTS.

### FORECASTS.

* 0	SCOTLAND NORTH	SW <sup>y</sup> to NW <sup>y</sup> winds, freshening; unsettled, some snow showers.
* 1	SCOTLAND EAST	----- D <sup>y</sup> ----- D <sup>y</sup> ----- D <sup>y</sup> -----
* 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	W <sup>y</sup> winds, freshening; changeable, some cold rain or sleet.

### DISTRICTS.

### FORECASTS.

* 6	SCOTLAND WEST	W <sup>y</sup> to NW <sup>y</sup> winds, strong; squally, some cold showers.
* 7	ENGLAND N.W.	----- D <sup>y</sup> ----- D <sup>y</sup> ----- D <sup>y</sup> -----
* 8	ENGLAND S.W.	W <sup>y</sup> winds, strong; squally, some showers.
* 9	IRELAND NORTH	Same as No 6
* 10	IRELAND SOUTH	Same as No 8.

### WARNINGS

The south cone was hoisted yesterday in districts 6 to 9 and 10. An asterisk is inserted against those districts in which the signals are now flying.



# YESTERDAY'S 2 P.M. REPORTS.

	Bar.	Dry.	Wet.	Wind.	Wen.	Sea.		Bar.	Dry.	Wet.	Wind.	Wen.	Sea.
Skudesness ...	29.17	34	31	E 4	bc	4	Holyhead ...	29.91	42	39	W 4	c	3
Sumburgh Head ...	29.63	38	34	SE 1	c	2	Valencia ...	30.01	51	50	WSW 5	o/p	5
Stornoway ...	29.57	39	37	S 5	d	5	Scilly ...	30.08	48	45	W 6	o	5
Aberdeen ...	29.75	35	29	WSW 1	bc	1	Dungeness ...						
Shields ...	29.79	36	35	W 3	o	3	London ...	29.84	36	35	W 5	b	*
Ardrossan ...	29.80	35	33	E 1	o	1	Yarmouth ...						
Malin Head ...	29.67	36	36	S 4	o	3	Jersey ...	30.02	44	40	W 7	bc	6
Mullaghmore ...	29.75	44	42	SW 5	o m	4	Rochefort ...						
Belmullet ...	29.69	48	43	W 8	o m	6							

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

Yesterday morning's observations showed that pressure was highest (30.1 in. and upwards) over Spain, Poland, and Central Russia, whence it decreased in a northerly direction to rather below 29.7 in. off the Shetland Isles and the west of Norway. Over Belgium however, lay the deep depression whose centre had travelled eastwards up the Channel during the preceding 24 hours. N<sup>th</sup> gales still prevailed over our eastern counties and the northern and western parts of France, W and SW<sup>th</sup> gales over the central and south-eastern Departments, and SE<sup>th</sup> gales and strong winds over North Germany. Large quantities of rain had fallen over France, and enormous quantities of snow over the southern and eastern counties of England, where, however, the fall had then ceased. Over Central Europe and Russia the weather was fair and quiet. The gales had been very severe - both from the S<sup>th</sup> and N<sup>th</sup> in the Channel and were still blowing hard over Belgium and the north of France though they were lulling over the United Kingdom. Temperatures varied from a little above 50° over Portugal and the north of Africa, and South-eastern Europe to some degrees below the freezing point over Austria, Germany, the Baltic, and Russia. The highest individual readings were 57° at Algiers and Palma, 53° at Huelva, 52° at Lisbon and Brindisi, and 51° at Constantinople; the lowest 13° at Moscow, 15° at Haparanda, 17° at Rode, 19° at Uleaborg, Kew, and Kinn, and 23° at several Scotch (coast) stations.

During the day there was some improvement in the weather over our Islands, and the gale lulled, but rain fell locally.

### EXPLANATION OF COLUMNS GIVEN ON PAGE 1.

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

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

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

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



# DAILY WEATHER REPORT.

for Wednesday 29<sup>th</sup> December.

1886.

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

STATIONS.	+ YESTERDAY EVENING.						8 A.M. TO DAY.										PAST 24 HOURS.		
	Barometer at 32° F. and Sea Level.	Temp. in Shade.	WIND.		Weather.	Barometer.  Reading at 32° F. and Sea Level.	Difference from 8 a.m. yesterday.	SHADE TEMP.		Difference from 8 a.m. yesterday.	WIND.		Weather.	Sea. (0 to 9.)	SHADE TEMP.		Amount of Rainfall.		
			Dir.	Force. (0 to 12.)				Dry.	Wet.		Dir.	Force. (0 to 12.)			Max.	Min.			
SCANDINAVIA.	Haparanda ..	29.82	22	2	0	0	29.82	-.04	18	18	- 7	SE	2	5	*	27	10	0.04	
	Hernösand ...	29.78	22	N	2	0	29.82	-.01	22	21	+ 3	NW	2	0	*	27	18	-	
	Stockholm ...	29.63	29	N	2	0	29.74	+.07	29	28	- 3	NE	2	0	*	34	28	0.08	
	Wisby ...	29.78	33	ENE	4	C	29.65	.00	32	32	- 1	E	4	0	*	36	30	-	
	Bodö ...	29.52	33	SE	2	b	29.71	+.02	28	27	+ 5	ESE	2	b	3	34	?	-	
	Christiansund...	29.75	22	ENE	6	b	29.83	+.29	24	22	- 9	ENE	4	a	0	25	21	-	
	Skudesnaes ...	29.80	34	SE	6	s	29.73	+.22	36	32	0	SSW	4	0	4	36	34	-	
	Christiania Fjord (Vardar)	29.65	23	NNE	6	0	29.75	+.04	25	23	- 6	N	6	0	1	?	19	-	
	Skagen (The Scaw)	29.56	32	ESE	4	b	29.63	-.01	31	30	0	ESE	5	0	2	32	30	0.04	
	Fanö ...	29.51	35	SW	2	b	29.60	-.08	32	32	+ 8	SSE	4	m	*	37	21	-	
BRITISH ISLANDS.	Sumburgh Head	29.30	35	2	0	s	29.68	+.45	36	35	- 2	2	0	b	4	39	32	0.16	
	Stornoway ...	29.26	36	WSW	3	bcp	29.78	+.60	36	35	0	NW	3	b	2	37	32	0.25	
	Wick ...	29.29	34	NW	1	b	29.75	+.43	27	26	- 6	NW	2	bc	1	34	26	0.03	
	Nairn ...	29.31	35	SSW	1	c	29.70	+.33	34	33	+ 1	2	0	bc	1	37	31	-	
	Aberdeen...	29.37	31	2	0	b	29.70	+.29	29	28	- 3	WNW	1	bcm	1	34	23	-	
	Leith ...	29.41	36	NW	3	bc	29.71	+.20	35	37	+ 2	W	1	cm	*	39	33	0.06	
	Shields ...	29.50	38	WSW	1	bmv	29.72	+.14	36	34	- 2	WNW	2	c	2	41	32	-	
	Spurn Head ...	29.60	37	WSW	4	bc	29.75	+.04	37	36	- 2	WNW	4	b	2	39	35	0.08	
	York ...	29.56	36	W	2	b	29.78	+.09	33	33	- 5	W	1	b	*	43	31	0.08	
	Loughborough	29.67	37	SW	3	b	29.87	+.03	38	36	0	WNW	3	bc	*	42	35	0.10	
GERMANY.	Ardrossan ...	29.42	39	WSW	5	C	29.72	+.18	42	42	+ 3	N	1	0	2	44	31	0.24	
	Malin Head ...																		
	Mullaghmore ...	29.59	43	W	8	cp	29.94	+.30	45	43	+ 4	NW	6	c	6	45	38	0.13	
	Belmullet ...	29.68	42	WNW	10	b	30.01	+.33	46	43	+ 3	WNW	6	0	*	46	36	0.25	
	Donaghadee ...	29.54	36	W	7	cp	29.84	+.19	41	39	+ 5	WNW	5	c	3	41	34	0.17	
	Barrow-in-Furness	29.58	40	WSW	6	c	29.78	+.09	41	40	0	WNW	4	bcp	*	42	38	0.18	
	Liverpool (Bidston)	29.63	40	WSW	6	c	29.83	+.08	42	40	+ 2	WNW	3	0	4	43	38	0.07	
	Holyhead ...	29.68	41	W	5	cp	29.89	+.12	44	42	+ 1	WNW	5	cp	5	45	40	0.01	
	Parsonstown ...	29.76	38	W	2	b	30.04	+.25	42	41	+ 4	SW	1	cp	*	42	37	0.16	
	Valencia ...	29.95	47	NW	7	cp	30.13	+.19	47	43	+ 2	WNW	4	rf	4	47	41	0.14	
FRANCE & NETHERLANDS.	Roche's Point...	29.88	42	NW	6	r	30.09	+.17	45	43	+ 2	W	4	0	4	45	40	0.12	
	Pembroke ...	29.81	45	WNW	5	bc	30.01	+.11	46	44	- 1	NW	6	cp	5	47	41	0.08	
	Scilly ...																		
	Prawle Point ...																		
	Jersey ...																		
	Hurst Castle ...	29.83	42	WNW	5	b	29.90	-.03	40	39	- 2	NW	6	bc	4	45	38	0.08	
	Dungeness ...	29.78	43	W	3	0	29.78	-.05	36	35	- 9	NW	4	c	3	45	33	0.03	
	London ...	29.76	39	W	3	bc	29.86	-.01	38	35	0	WSW	1	c	*	42	33	-	
	Oxford ...	29.74	35	W	3	b	29.89	+.02	35	33	- 3	WSW	3	b	*	42	34	0.08	
	Cambridge ...	29.72	35	SW	1	bc	29.83	-.02	37	36	+ 2	W	1	c	*	37	28	-	
PENIN- SULA.	Yarmouth ...	29.68	36	WSW	4	C	29.73	-.04	35	34	- 2	W	3	bcm	3	38	31	0.02	
	Cuxhaven ...																		
	Berlin ...	29.78	35	SW	1	b	29.74	-.01	32	32	- 2	SSE	1	0	*	36	32	0.08	
	Wiesbaden ...	*	*	*	*	*	29.76	-.27	36	35	- 1	SW	1	0	*	29	34	0.08	
	Munich ...	30.00	34	W	2	0	29.79	-.34	38	33	0	S	2	s	*	37	32	0.12	
	The Helder ...																		
	Brussels ...	*	*	*	*	*													
	Cape Gris Nez...																		
	Paris ...																		
	Brest ...																		

For Explanation of Columns, see p. 4.



# WEATHER

# CHARTS

for 8 a.m. on

Wednesday, 29<sup>th</sup> December

1880.

## 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 December.  
During the 10 Years 1871—1880.

STATIONS.	MEAN READINGS.
	in.
Sumburgh Head	29.680
Stornoway	29.701
Wick	29.713
Nairn	29.741
Aberdeen	29.750
Leith	29.800
Shields	29.836
York	29.877
Ardrossan	29.810
Donaghadee	29.832
Holyhead	29.858
Liverpool	29.882
Valencia	29.879
Roche's Point	29.889
Pembroke	29.897
Scilly	29.943
Hurst Castle	29.938
Dover	29.942
LONDON	29.934
Oxford	29.937
Cambridge	29.926
Yarmouth	29.902



## 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 December.

STATIONS	TEMPERATURE				RAINFALL (Inches)
	Daily Max.	Daily Min.	At 8 a.m.		
			Dry.	Wet.	
Sumburgh Head	42.0	34.5	39.0	37.6	4.38
Stornoway	44.8	33.5	38.9	37.8	5.66
Wick	42.0	32.1	37.8	36.4	3.18
Nairn	41.5	32.8	36.9	35.4	2.08
Aberdeen	41.8	32.9	36.9	35.3	3.34
Leith	44.3	33.6	38.4	37.0	2.01
Shields	42.8	34.3	39.2	36.9	2.74
York	42.5	31.9	36.2	35.4	2.45
Ardrossan	47.0	36.1	40.1	38.3	4.04
Donaghadee	46.7	36.1	40.1	39.1	2.84
Holyhead	46.8	39.6	42.9	41.3	3.84
Liverpool	43.6	35.7	39.1	37.4	2.70
Valencia	50.0	40.0	44.7	41.8	5.82
Roche's Point	47.7	39.3	42.9	41.4	4.74
Pembroke	47.1	40.4	43.7	42.6	4.06
Scilly	49.8	43.9	47.2	45.3	4.10
Hurst Castle	45.6	36.5	40.6	39.9	2.84
Dover	44.2	36.5	40.0	38.8	3.20
LONDON	44.5	33.9	38.1	37.1	2.14
Oxford	43.3	33.6	37.3	36.6	2.13
Cambridge	43.3	31.8	36.3	35.6	1.99
Yarmouth	42.2	33.8	37.9	37.2	2.95

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

TEMPERATURE

WIND

## WEATHER

SEA

The reports from France, the Netherlands and many of our southern stations are again wanting, and it is therefore impossible to prepare the usual statement as to the conditions existing over Western Europe.

### PROBABLE CHANGES IN SYSTEM NOW PREVALENT

The low-pressure system which lay to the northward of our islands yesterday has apparently moved south-eastwards to the North Sea, where it is rapidly filling up. The barometer is therefore rising at all but the German stations; with moderate NW or NW<sup>ly</sup> breezes and fair weather over the greater part of our islands, but E<sup>ly</sup> or NE<sup>ly</sup> winds and dull weather in Scandinavia. Temperature over the United Kingdom ranges from 47° at Valencia and 46° at Belmullet to 27° at Wick.

Although the barometer is still rising steadily in the west, the wind at Valencia is inclined to back, and conditions are therefore not yet settled.

## FORECASTS

for the 24 hours ending at NOON on 30<sup>th</sup> December 1886.

DISTRICTS.		FORECASTS.		DISTRICTS.		FORECASTS.	
0	{ SCOTLAND NORTH	NW <sup>ly</sup> winds, light or moderate; fair generally.		6	{ SCOTLAND WEST	Same as N <sup>o</sup> 0.	
1	{ SCOTLAND EAST	----- D <sup>o</sup> ----- D <sup>o</sup> -----		7	{ ENGLAND N. W.	NW <sup>ly</sup> winds, backing later, fair to unsettled and some rain.	
2	{ ENGLAND N. E.	----- D <sup>o</sup> ----- D <sup>o</sup> -----		8	{ ENGLAND S. W.	----- D <sup>o</sup> ----- D <sup>o</sup> -----	
3	{ ENGLAND EAST	Same as N <sup>o</sup> 5.		9	{ IRELAND NORTH	----- D <sup>o</sup> ----- D <sup>o</sup> -----	
4	{ MIDLAND COUNTIES	Same as N <sup>o</sup> 5.		10	{ IRELAND SOUTH	----- D <sup>o</sup> ----- D <sup>o</sup> -----	
5	{ ENGLAND SOUTH	NW <sup>ly</sup> and W <sup>ly</sup> winds, moderate or fresh, fair generally, but perhaps some showers.		WARNINGS		The S. cone has been lowered this morning in districts 6, 7, 9 and 10.	



# YESTERDAY'S 2 P.M. REPORTS.

	Bar.	Dry.	Wet.	Wind.	Wea.	Sea.		Bar.	Dry	Wet	Wind.	Wea.	Sea.		
Skudesnaes ...	29.47	36	33	ESE	8	0	5	Holyhead ...	29.70	43	40	W	5	chop	4
Sumburgh Head ...	29.26	36	35	WSW	1	0	3	Valencia ...	29.92	47	45	W	6	opg	6
Stornoway ...	29.24	36	36	SSW	4	cp	4	Scilly ...	29.98	47	46	NW	8	og	6
Aberdeen ...	29.37	33	32	SSW	3	bu	1	Dungeness ...	29.86	43	41	WNW	4	0	3
Shields ...	29.54	40	38	WEN	3	c	2	London ...	29.83	42	40	WSW	3	c	*
Ardrossan ...	29.47	40	39	WSW	5	bu	4	Yarmouth ...	29.75	38	37	W	3	bu	4
Malin Head ...	29.39	40	40	WNW	5	0	5	Jersey ...							
Mullaghmore ...	29.61	40	38	W	6	chrg	7	Rochefort ...							
Belmullet ...	29.66	44	41	WNW	8	bcpg	*								

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

*The Continental Reports have not yet been received.*

### 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 30<sup>th</sup> December 1886.

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

STATIONS.	+ YESTERDAY EVENING.					8 A.M. TO DAY.										PAST 24 HOURS.		
	Barometer at 32° F. and Sea Level.	Temp. in Shade.	WIND.		Weather.	BAROMETER.		SHADE TEMP.			WIND.		Sea. (0 to 9.)	SHADE TEMP.		Amount of Rainfall.		
			Dirac.	Force. (0 to 12.)		Reading at 32° F. and Sea Level.	Difference from 8 a.m. yesterday.	Dry.	Wet.	Difference from 8 a.m. yesterday.	Dirac.	Force. (0 to 12.)		Weather.	Max.		Min.	
SCANDINAVIA.	Haparanda ..	29.99	10	Z	0	30.07	+ .25	16	16	- 2	Z	0	0	*	28	9	-	
	Hernösand ..	30.00	7	Z	0	30.17	+ .35	12	12	- 10	Z	0	0	*	25	6	-	
	Stockholm ...	29.96	22	W	2	30.13	+ .39	15	14	- 14	NW	2	bc	*	31	?	-	
	Wisby ...	29.87	31	ESE	3	30.04	+ .39	32	31	0	ESE	4	b	*	34	27	-	
	Bodö ...	29.95	22	ESE	4	30.04	+ .33	20	18	- 8	ESE	6	c	3	?	19	-	
	Christiansund...	29.93	32	SW	1	30.02	+ .19	36	34	+ 12	Z	0	c	3	36	?	-	
	Skudesnaes ...	30.01	29	Z	0	30.19	+ .46	30	27	- 6	E	4	bc	3	36	28	-	
	Christiania Fjord (Fjorder)	29.99	23	NNE	4	30.20	+ .45	18	18	- 7	NNE	4	m	1	25	14	-	
	Skagen (The Scaw)	29.92	30	E	5	30.15	+ .52	28	27	+ 3	ESE	2	b	1	32	27	-	
	Fanö ...	29.86	32	NE	2	30.09	+ .49	32	32	0	NE	2	0	*	32	30	0.08	
BRITISH ISLANDS.	Sumburgh Head	29.92	36	Z	0	30.15	+ .47	26	34	0	NNE	1	c	1	41	32	0.06	
	Stornoway ...	30.02	33	NW	2	30.24	+ .46	35	35	- 1	NW	3	bc	2	40	31	0.01	
	Wick ...	29.98	26	NW	1	30.25	+ .50	30	30	+ 3	W	1	bc	1	33	26	0.01	
	Nairn ...	30.02	36	SW	1	30.24	+ .54	34	32	0	SW	1	bc	1	38	31	-	
	Aberdeen...	29.99	33	W	1	30.26	+ .36	28	27	- 1	W	1	b	1	37	27	-	
	Leith ...	30.04	36	NW	1	30.30	+ .59	30	30	- 8	NW	1	m	*	42	28	-	
	Shields ...	29.98	36	NW	2	30.27	+ .55	30	29	- 6	NW	2	b	2	40	29	-	
	Spurn Head ...	29.93	37	NW	4	30.25	+ .50	37	36	0	NW	3	b	2	38	33	0.02	
	York ...	29.97	35	W	1	30.30	+ .52	30	29	- 3	NW	1	b	*	39	29	-	
	Loughborough	29.98	39	NW	2	30.30	+ .49	28	28	- 10	NW	1	bm	*	43	28	0.01	
GERMANY.	Ardrossan ...	30.04	38	ESE	1	30.31	+ .59	30	30	- 12	ESE	1	bf	1	47	29	-	
	Malin Head ...	30.06	41	NW	2	30.32		38	37		SW	2	om	3	45	37	0.04	
	Mullaghmore ...	30.09	44	W	4	30.33	+ .39	41	41	- 4	SE	1	om	2	46	40	0.01	
	Belinulet ...	30.11	44	SW	1	30.33	+ .32	35	35	- 11	ESE	2	f	*	46	34	0.04	
	Donaghadee ...	30.06	39	W	3	30.31	+ .47	36	36	- 5	NW	3	bc	1	45	35	-	
	Barrow-in-Furness	29.99	38	NNE	2	30.31	+ .53	30	29	- 11	NE	3	bc	*	43	29	0.03	
	Liverpool (Bidston)	30.02	40	NW	2	30.31	+ .48	33	32	- 9	N	1	bf	2	44	33	-	
	Holyhead ...	30.04	45	NW	5	30.31	+ .42	43	40	- 1	NNE	2	c	2	46	40	-	
	Parsonstown ...	30.12	43	SW	1	30.37	+ .33	38	38	- 4	Z	0	f	*	45	37	0.11	
	Valencia ...	30.20	50	NW	4	30.36	+ .23	42	41	- 5	Z	0	b	1	51	39	0.03	
FRANCE & NETHERLANDS.	Roche's Point...	30.14	50	NW	4	30.34	+ .25	45	44	0	NW	1	c	2	50	41	0.01	
	Pembroke ...	30.10	46	NW	4	30.32	+ .31	42	41	- 4	NNE	1	c	2	47	40	-	
	Scilly ...	30.14	50	NW	7													
	Prawle Point ...																	
	Jersey ...																	
	Hurst Castle ...	30.03	41	NW	5	30.28	+ .38	31	31	- 9	NE	2	m	3	45	30	-	
	Dungeness ...	29.92	40	NW	2	30.20	+ .37	32	30	- 4	NW	3	f	2	44	30	0.07	
	London ...	29.97	40	NW	2	30.29	+ .43	32	32	- 6	NW	1	fg	*	43	28	-	
	Oxford ...	30.04	39	NW	3	30.30	+ .41	29	28	- 6	NW	1	b	*	42	28	0.01	
	Cambridge ...	30.00	36	W	1	30.30	+ .47	28	28	- 9	NW	1	b	*	42	27	0.14	
PENINSULA.	Yarmouth ...	29.91	36	NW	3	30.22	+ .49	34	33	- 1	NW	1	bc	4	39	31	-	
	Cuxhaven ...	29.70	32	WSW	2	29.99		35	34		NE	3	0	*	35	32	0.16	
	Berlin ...	29.86	34	Z	0	29.99	+ .25	33	32	+ 1	Z	0	0	*	34	?	*	
	Wiesbaden ...	*	*	*	*	30.02	+ .26	36	35	0	N	1	0	*	41	32	0.08	
	Munich ...	29.93	32	W	4	29.95	+ .16	28	28	- 5	SW	3	0	*	37	27	0.16	
	The Helder ...	*	*	*	*									*				
	Brussels ...	*	*	*	*									*				
	Cape Gris Nez...																	
	Paris ...	30.02	43	WSW	4	30.20	+ .29	37	35	0	W	4	b	*	?	34	0.08	
	Brest ...	30.19	50	NW	7	30.26	+ .12	48	47	0	NE	3	0	5	54	43	0.01	
GERMANY.	Lorient ...	30.22	49	NW	7	30.29	?	46	45	- 1	NNE	3	c	5	50	45	-	
	Rochefort ...	30.27	49	NW	5	30.25	+ .06	45	44	- 2	N	4	0	2	50	39	0.24	
	Belfort ...	29.97	35	SW	1	30.00		31	30		E	1	0	*	37	29	-	
	Lyons ...	30.12	37	NW	3	30.01	+ .04	37	35	0	NW	4	0	*	42	33	0.08	
	Nice ...																	
	Perpignan ...	30.15	48	NW	7	30.03	- .03	47	44	- 1	NW	7	n	*	54	43	0.16	
	Biarritz ...	30.32	53	NW	8	30.26		52	50		NW	7	n	6	55	45	0.20	
	Corunna ...	*	*	*	*													
	Lisbon ...	*	*	*	*													

For Explanation of Columns, see p. 4.



# WEATHER CHARTS

for 8 a.m. on Thursday, 30<sup>th</sup> December.

1880.

## 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. The 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.

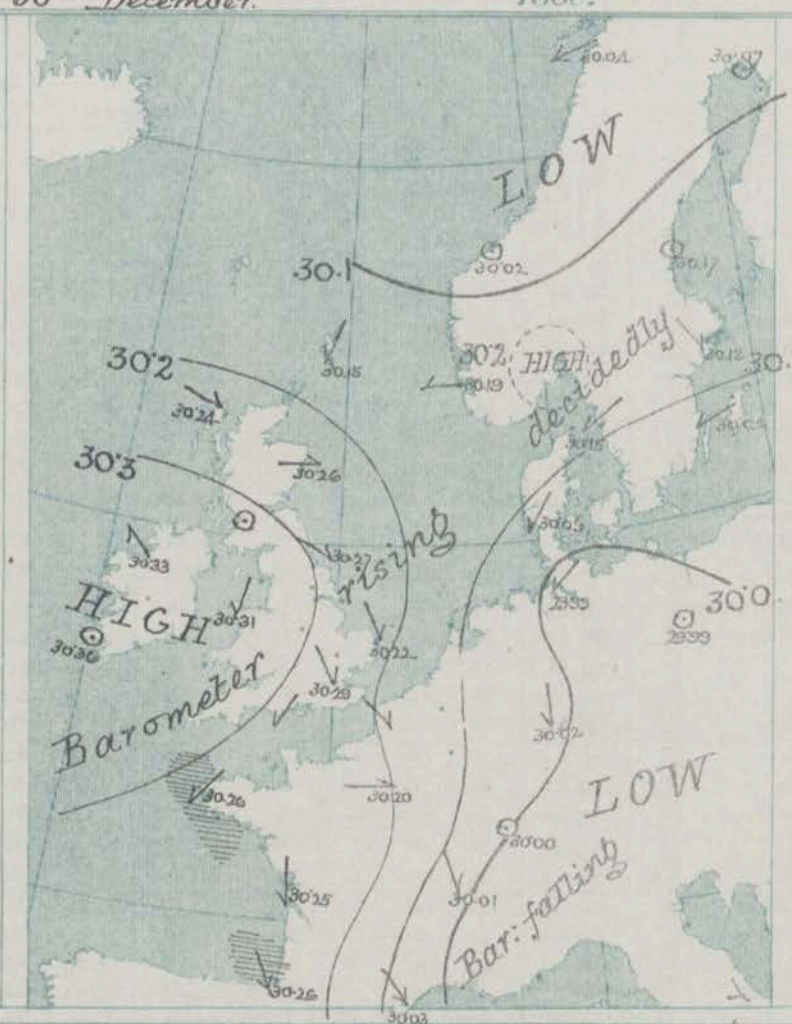
**Sea Disturbance** — where considerable is shown thus

▨ = Rough. ▨ = High.

## MEAN HEIGHT of the BAROMETER

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

STATIONS.	MEAN READINGS.
Sumburgh Head.	29.680
Stornoway.	29.701
Wick.	29.713
Nairn.	29.741
Aberdeen.	29.750
Leith.	29.800
Shields.	29.836
York.	29.877
Ardrossan.	29.810
Donaghadee.	29.832
Holyhead.	29.858
Liverpool.	29.882
Valencia.	29.879
Roche's Point.	29.889
Pembroke.	29.897
Scilly.	29.943
Hurst Castle.	29.938
Dover.	29.942
LONDON.	29.934
Oxford.	29.937
Cambridge.	29.926
Yarmouth.	29.902



## 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.

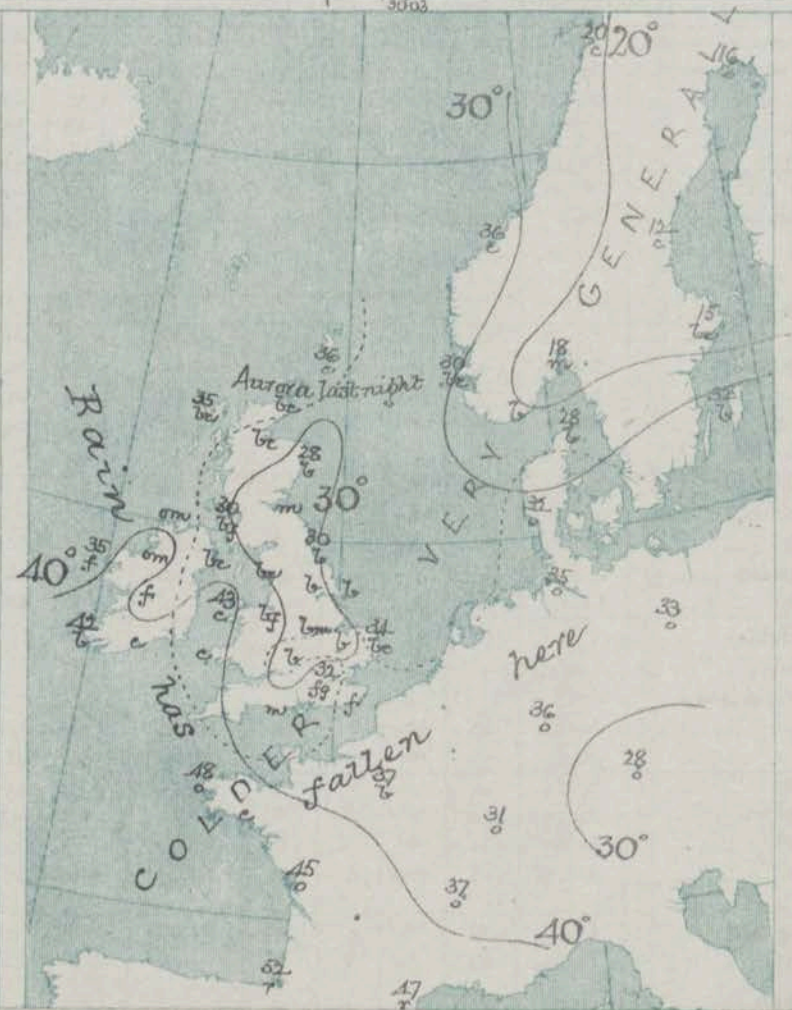
**Rainfall** — A dotted line separates the districts in which rain has fallen from those where there has been none. Falls of 0.5 in. or more, are quoted in figures.

## MEANS OF TEMPERATURE IN SHADE. AND RAINFALL.

for the month of December.

STATIONS	TEMPERATURE				RAINFALL (Inches)
	Daily Max.	Daily Min.	At 8 a.m.	At 8 a.m.	
Sumburgh Head.	42.0	34.5	39.0	37.6	4.33
Stornoway.	41.8	33.5	38.9	37.8	5.60
Wick.	42.0	32.1	37.8	36.4	3.13
Nairn.	41.5	32.8	36.9	35.4	2.08
Aberdeen.	41.8	32.8	36.9	35.3	3.34
Leith.	44.3	33.6	38.4	37.0	2.01
Shields.	42.8	34.3	39.2	36.9	2.74
York.	42.5	31.9	36.2	35.4	2.45
Ardrossan.	47.0	36.1	40.1	38.3	4.04
Donaghadee.	46.7	36.1	40.1	39.1	2.84
Holyhead.	46.8	39.6	42.9	41.3	2.84
Liverpool.	43.6	35.7	39.1	37.4	2.70
Valencia.	50.0	40.0	44.7	41.8	5.82
Roche's Point.	47.7	39.3	42.9	41.4	4.74
Pembroke.	47.1	40.4	43.7	42.6	4.06
Scilly.	49.8	43.9	47.2	45.3	4.10
Hurst Castle.	45.5	36.5	40.6	39.9	2.84
Dover.	44.2	36.5	40.0	38.8	3.20
LONDON.	44.5	33.9	38.1	37.1	2.14
Oxford.	43.3	33.6	37.3	36.6	2.13
Cambridge.	43.3	31.8	36.3	35.6	1.60
Yarmouth.	42.2	33.8	37.9	37.2	2.95

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 30.3 in. & upwards in an anticyclone lying over Ireland & the west of England. Lowest 30.0 in. & less in a large arch lying over Germany & the southeast of France.
TEMPERATURE	{ Highest 52° at Biarritz, 48° at Brest, 47° at Perpignan & 45° at Roches Point. Lowest 12° at Helsingfors, 15° at Stockholm, 16° at Haparanda, 18° at Funder & 22° at Aberdeen, Brighton & Cambridge.
WIND	{ Light W. in our northern coasts, N. & N.E. at our southern & many of the French stations. Calm in some parts of Scandinavia; strong from N.W. in the south of France.
WEATHER	{ B. in Germany and the south of France, with rain at Biarritz & Perpignan. F. elsewhere, but fog reported at some of the English and Irish stations. Rain fell yesterday in many parts of the Kingdom.
SEA	{ Rather rough at Brest & Lorient, & moderate at Yarmouth, but smooth elsewhere.

## PROBABLE CHANGES IN SYSTEM NOW PREVALENT

The depression which lay over the North Sea has passed away in a southeasterly direction, the barometer has risen generally and an anticyclone has advanced from the westward over Ireland and the west of England.

The high pressure system seems likely to extend further eastwards and quiet frosty weather is therefore probable generally.

## FORECASTS

For the 24 hours ending at NOON on 31<sup>st</sup> December 1886.

DISTRICTS.	FORECASTS.	DISTRICTS.	FORECASTS.
0 { SCOTLAND NORTH	N <sup>W</sup> winds, light, fine, cold.	6 { SCOTLAND WEST	N <sup>W</sup> and variable airs; fair, cold, local fogs.
1 { SCOTLAND EAST	-----D-----D-----D-----	7 { ENGLAND N. W.	-----D-----D-----D-----
2 { ENGLAND N. E.	Same as N <sup>o</sup> 5.	8 { ENGLAND S. W.	light variable breezes; fair generally
3 { ENGLAND EAST	Same as N <sup>o</sup> 5.	9 { IRELAND NORTH	Variable or S <sup>W</sup> breezes; fair to cloudy and some rain.
4 { MIDLAND COUNTIES	Same as N <sup>o</sup> 5.	10 { IRELAND SOUTH	-----D-----D-----D-----
5 { ENGLAND SOUTH	NW & N <sup>W</sup> winds, light, fair, cold, local fogs.	WARNINGS	None Issued.



# YESTERDAY'S 2 P.M. REPORTS.

	Bar.	Dry.	Wet.	Wind.	Wea.	Sea.		Bar.	Dry.	Wet.	Wind.	Wea.	Sea.
Skudesnaes ...	29.58	44	29	EHE 3	0	4	Holyhead ...	29.97	46	43	WSEW 6	C qf	5
Sumburgh Head	29.54	37	35	Z 0	0	1	Valencia ...	30.17	51	50	WSEW 5	0 m	4
Stornoway ...	29.94	40	39	NW 2	6	1	Scilly ...	30.13	50	50	NW 7	0	6
Aberdeen ...	29.88	35	34	NW 3	6c	1	Dungeness ...	29.89	44	41	NW 3	6c	2
Shields ...	29.85	40	37	NW 1	6c	2	London ...	29.92	43	40	WSEW 3	0	*
Ardrossan ...	29.93	43	42	NW 3	6	2	Yarmouth ...	29.83	39	37	WSEW 3	6c	3
Malin Head ...	29.98	42	42	NW 3	0	5	Jersey ...						
Mullaghmore ...	30.02	46	44	WSEW 5	0 m	4	Rochefort ...	30.27	49	46	SW 5	0	2
Belmullet ...	30.06	45	45	WSEW 4	0 m	2							

## 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 ins and upwards over the Bay of Biscay and Spain, and from about the same value over Central Russia, to 29.7 ins and less in a large trough which lay over the Baltic and North Sea, and to a little below 29.6 ins near Janö. Thus while NW winds prevailed over the British Isles and France and blew strongly on the shores of the Bay of Biscay, light SW and S breezes were reported in Germany and varying Ely airs over Northern Europe. The weather was not at all settled and showers fell in many places. Temperature remained below the freezing point over Finland, Russia, Scandinavia and Austria, but was less low over the British Islands and Western and Southern Europe. The highest individual readings were 55° at Palermo, 53° at Algiers, Malta and Brindisi and 50° at Bilbao; the lowest 17° at Archangel and Moscow, 18° at Haparanda, 19° at St Petersburg, 24° at Lemberg and 26° at Wiek.

During the day there was some improvement in the weather over Western Europe, but showers still fell in some localities. The wind veered to the NW and fell light, and the barometer rose.

### 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 31<sup>st</sup> December 1886.

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 ..	30.23	16	Z	0	0	30.32	+25	15	15	-1	Z	0	0	*	18	1	-
	Hernösand ...	30.38	0	Z	0	0	30.48	+31	5	4	-7	Z	0	0	*	16	0	-
	Stockholm ...	30.35	10	NE	2	0	30.47	+34	5	5	-10	W	2	bc	*	23	?	-
	Wisby ...	30.24	33	NE	4	c	30.36	+32	29	27	-3	NE	4	0	*	34	28	0.04
	Bodö ...	30.11	23	ENE	4	c	30.19	+15	32	31	+12	ESE	4	0	2	32	19	-
	Christiansund...	30.26	35	W	3	bc	30.38	+36	35	32	-1	SW	1	0	4	36	32	0.28
	Skudesnaes ...	30.38	33	E	2	0	30.49	+30	35	34	+5	ESE	4	ons	3	?	?	-
	Christiania Fjord (Færder)	30.36	20	NE	2	bc	30.54	+34	17	17	-1	Z	0	f	1	?	14	-
	Skagen (The Seaw)	30.43	24	E	1	0	30.53	+38	24	23	-4	Z	0	c	0	?	23	-
	Fanö ...	30.41	21	NE	3	0	30.53	+44	14	14	-18	NE	1	f	*	32	10	-
BRITISH ISLANDS.	Sumburgh Head	30.31	35	Z	0	bc	30.28	+13	39	37	+3	S	1	0	1	41	32	-
	Stornoway ...	30.32	38	SSW	1	0	30.23	-01	42	42	+7	S	5	ag	5	44	34	0.11
	Wick ...	30.35	26	Z	0	0	30.27	+02	39	38	+9	S	4	bc	1	40	26	0.11
	Nairn ...	30.37	35	Z	0	bc	30.30	+06	39	37	+5	SW	1	0	1	40	28	-
	Aberdeen...	30.41	31	W	1	0	30.40	+14	33	32	+5	SW	3	0	1	39	23	-
	Leith ...	30.42	34	NE	1	bc	30.46	+16	33	32	+3	N	1	bc	*	38	25	-
	Shields ...	30.43	33	W	1	0	30.53	+26	29	28	-1	SW	1	f	2	38	25	-
	Spurn Head ...	30.40	36	NW	3	0	30.55	+30	34	33	-3	SE	1	bc	3	38	32	0.04
	York ...	30.45	31	NE	1	0	30.56	+26	25	25	-5	NE	1	f	*	37	24	-
	Loughborough	30.45	29	W	1	0	30.58	+28	20	20	-8	Z	0	bc	*	37	20	-
GERMANY.	Ardrossan ...	30.42	36	ENE	1	c	30.44	+13	38	38	+8	ENE	1	om	1	38	30	-
	Malin Head ...	30.37	38	S	2	0	30.35	+03	40	39	+2	S	5	ag	3	43	37	0.03
	Mullaghmore ...	30.40	38	E	2	c	30.37	+04	44	42	+3	SE	5	0	3	45	36	-
	Belmullet ...	30.37	42	SE	3	bc	30.34	+01	45	45	+10	SSW	6	om	*	45	34	0.01
	Donaghadee ...	30.45	34	W	2	0	30.46	+15	35	35	-1	W	3	bc	1	44	30	0.01
	Barrow-in-Furness	30.42	32	NE	2	bc	30.51	+20	28	28	-2	NE	1	bc	*	36	27	-
	Liverpool (Bidston)	30.45	35	N	1	0	30.54	+23	25	25	-8	ESE	2	f	3	38	24	-
	Holyhead ...	30.44	38	Z	0	bc	30.51	+20	36	36	-7	S	1	bc	1	44	32	-
	Parsonstown ...	30.45	39	Z	0	0	30.45	+08	38	36	0	S	1	c	*	43	33	-
	Valencia ...	30.43	46	NW	1	om	30.43	+07	47	46	+5	SE	5	om	6	51	39	0.02
FRANCE & NETHERLANDS.	Roche's Point...	30.45	44	E	1	c	30.47	+13	46	43	+1	SSW	4	c	3	47	38	-
	Pembroke ...	30.43	41	NE	1	0	30.53	+21	38	36	-4	E	2	bc	2	45	34	-
	Scilly ...	30.40	47	NE	3	0	30.48	+19	43	41	-5	ESE	2	bc	4	49	41	-
	Prawle Point ...	30.45	36	NE	2	0	30.54	+23	35	33	0	NE	1	0	2	48	31	-
	Jersey ...	30.38	41	NE	2	bc	30.50	+24	37	35	-3	NE	2	bc	2	44	36	-
	Hurst Castle ...	30.42	33	NE	2	m	30.54	+26	31	31	0	NE	3	f	2	41	28	-
	Dungeness ...	30.35	32	N	1	m	30.54	+34	33	33	+1	NE	3	0	2	42	28	-
	London ...	30.42	35	NW	1	0	30.55	+26	30	28	-2	Z	0	fg	*	38	29	-
	Oxford ...	30.47	29	NE	1	0	30.59	+29	25	24	-4	Z	0	ag	*	36	23	-
	Cambridge ...	30.44	32	NW	1	0	30.59	+29	31	31	+3	NW	1	m	*	36	27	0.02
PENIN. SULA.	Yarmouth ...	30.37	36	NE	1	0	30.54	+34	36	34	+2	NE	3	bc	3	39	32	-
	Cuxhaven ...	30.25	33	NE	4	0	30.48	+49	30	29	-5	NE	3	c	*	?	28	-
	Berlin ...	30.17	33	NW	2	0	30.36	+37	32	31	-1	NE	1	c	*	36	28	-
	Wiesbaden ...	*	*	*	*	*	30.35	+33	35	33	-1	NE	3	0	*	37	34	-
	Munich ...	30.07	29	NW	2	0	30.17	+22	25	25	-3	NW	3	S	*	34	25	0.08
	The Helder ...	30.36	36	NE	3	bc	30.53	+41	35	33	-1	ENE	3	c	3	39	32	0.08
	Brussels ...	*	*	*	*	*	30.49	+36	32	31	-2	NE	3	0	*	38	32	-
	Cape Gris Nez...	30.32	36	?	3	bc	30.41	+21	32	31	-5	N	4	0	*	41	32	-
	Brest ...	30.41	40	NE	3	0	30.50	+24	36	35	-12	NE	4	0	3	48	34	-
	Lorient ...	30.40	44	NE	3	0	30.51	+22	38	36	-8	ENE	4	0	2	46	36	-



# WEATHER CHARTS

for 8 a.m. on

Friday, 31<sup>st</sup> December,

1886.

## 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.

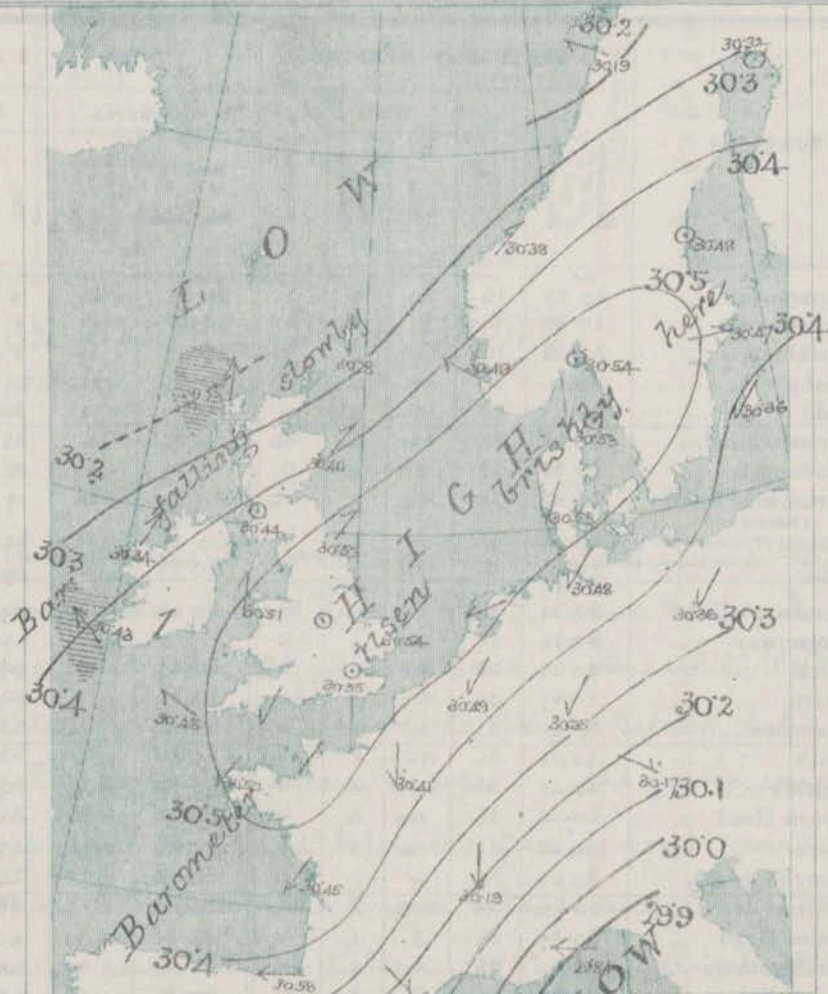
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at 8 a.m. for the month of December.  
During the 10 Years 1871-1880.

STATIONS.	MEAN READINGS.
	in.
Samburgh Head	29.680
Stornoway	29.701
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Ardrossan	29.810
Donaghadee	29.832
Holyhead	29.858
Liverpool	29.882
Valencia	29.879
Roches Point	29.889
Pembroke	29.897
Scilly	29.944
Burgh Castle	29.938
Dover	29.942
LONDON	29.934
Oxford	29.937
Cambridge	29.926
Yarmouth	29.902



## 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 December.

STATIONS	TEMPERATURE				RAINFALL (Inches)
	Daily Max.	Daily Min.	At 8 A.M.	At 8 P.M.	
Samburgh Head	42.0	34.5	39.0	37.6	4.38
Stornoway	44.8	38.5	38.9	37.8	5.66
Wick	42.0	32.1	37.8	36.4	3.18
Nairn	41.5	32.8	36.9	35.4	2.08
Aberdeen	41.8	32.9	36.9	35.3	3.34
Leith	44.3	35.6	38.4	37.0	2.01
Glasgow	42.8	34.3	39.2	36.9	2.74
York	42.5	31.0	36.2	35.4	2.45
Ardrossan	47.0	36.1	40.1	38.3	4.04
Donaghadee	46.7	36.1	40.1	39.1	2.84
Holyhead	46.8	39.6	42.9	41.3	3.34
Liverpool	43.6	35.7	39.1	37.4	2.70
Valencia	50.0	40.0	44.7	41.8	5.82
Roches Point	47.7	39.3	42.9	41.4	4.74
Pembroke	47.1	40.4	43.7	42.6	4.06
Scilly	49.8	43.9	47.2	45.3	4.10
Burgh Castle	45.5	36.5	40.6	39.9	2.84
Dover	44.2	36.5	40.0	38.8	3.20
LONDON	44.5	33.9	38.1	37.1	2.14
Oxford	43.3	35.0	37.3	36.6	2.18
Cambridge	45.3	31.8	36.3	35.6	1.99
Yarmouth	42.2	33.8	37.9	37.2	2.95

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





## GENERAL SITUATION AT 8 A.M.

PRESSURE	{	Highest 30.5 in and upwards in a large anticyclonic band extending north-easterly from the Channel across England and the North Sea to the south of Scandinavia. Lowest 29.9 in. and less in a depression lying over the Gulf of Genoa, but relatively low 30.2 in and less to the north-westward of our islands and Norway.
TEMPERATURE	{	Highest 47° at Valencia, 45° at Belmullet and 42° at Stornoway. Lowest 5° at Hornösand and Stockholm, 14° at Laro, 15° at Haparanda & 20° at Loughbor. Hard frost occurred last night over England and many parts of the Continent.
WIND	{	Light from NE. or N. at our southern and many of the Continental stations. Fresh from SE. in the west of Ireland; moderate from S. in Scotland. Calms prevailing over Sweden and Central England.
WEATHER	{	Dull in Ireland and the west of Scotland, with rain at Stornoway. Thick fogs prevailing in many parts of England, but fine weather reported at most of the Continental stations.
SEA	{	Rough at Valencia and rather rough at Stornoway, but moderate to smooth elsewhere.

### PROBABLE CHANGES IN SYSTEM NOW PREVALENT

The anticyclone which lay over Ireland yesterday has increased greatly both in size and height and travelled eastwards, its central area being now found over England, the Channel & the North Sea.

In the rear of the system a series of depressions is beginning to move in a northeasterly direction along our western & northern coast. The S<sup>W</sup> winds in Ireland & Scotland are therefore likely to increase in force, with less settled weather, but over England no important change is likely at present.

## FORECASTS

For the 24 hours ending at NOON on 1<sup>st</sup> January 1886.

DISTRICTS.		FORECASTS.	DISTRICTS.		FORECASTS.
0	SCOTLAND NORTH	<i>S<sup>W</sup> winds, freshening; fair to cloudy and some rain.</i>	6	SCOTLAND WEST	<i>SE<sup>W</sup> &amp; S<sup>W</sup> winds, freshening; fair generally.</i>
1	SCOTLAND EAST	-----D°-----D°-----D°-----	7	ENGLAND N W	-----D°-----D°-----D°-----
2	ENGLAND N. E.	<i>SE<sup>W</sup> and S<sup>W</sup> winds, moderate; fair generally, local fogs.</i>	8	ENGLAND S. W	-----D°-----D°-----D°-----
3	ENGLAND EAST	<i>Same as N° 5.</i>	9	IRELAND NORTH	<i>SE<sup>W</sup> &amp; S<sup>W</sup> winds, strong; cloudy, some rain.</i>
4	MIDLAND COUNTIES	<i>Same as N° 5.</i>	10	IRELAND SOUTH	-----D°-----D°-----D°-----
5	ENGLAND SOUTH	<i>Calms and thick local fogs, followed by light SE<sup>W</sup> breezes and fair weather.</i>	WARNINGS		<i>None Issued.</i>



# YESTERDAY'S 2 P.M. REPORTS.

	Bar.	Dry.	Wet.	Wind.	Wes.	Sea.		Bar.	Dry.	Wet.	Wind.	Wes.	Sea.
Skudesnaes ...	30.40	33	30	E. 1/2 E. 4	b	3	Holyhead ...	30.39	42	40	N 1	b	2
Sumburgh Head ...	30.28	34	33	E. 1/2 E. 0	b	0	Valencia ...	30.42	50	48	NW 1	b. m	1
Stornoway ...	30.31	41	41	W 1	b	0	Scilly ...	30.34	49	45	NE 3	c	4
Aberdeen ...	30.35	35	33	W 1	b	1	Dungeness ...	30.28	36	35	N 2	c	2
Shields ...	30.37	38	35	WNW 2	b	2	London ...	30.35	38	35	NE 1	m	4
Ardrossan ...	30.39	36	35	E. 1/2 E. 1	c	1	Yarmouth ...	30.30	39	37	N 4	b. 1	4
Malin Head ...	30.37	43	42	SW 2	b	2	Jersey ...	30.31	43	40	NE 2	b	2
Mullaghmore ...	30.38	40	40	NE 2	c	2	Rocheport ...	30.31	47	45	N 5	b	2
Belmullet ...	30.38	44	44	S 3	b	*							

## GENERAL REMARKS ON THE WEATHER OVER EUROPE

DURING THE PAST 24 HOURS.

Yesterday morning's reports showed that pressure varied from a little above 30.3 ins over Ireland, and a little above 30.2 ins over Central Russia to 29.7 ins over Central Italy and to about 30.0 ins over the north-west of Norway. Over Italy and the eastern shores of the Adriatic lay a large shallow depression, but in almost all other places the distribution of pressure was anticyclonic. The weather though still a little showery in many places began to dry up over the United Kingdom, where the wind fell light & became anticyclonic in direction. Cold and frost still prevailed over Northern, Eastern and Central Europe as well as over the greater part of the British Isles, but in the southern and eastern parts of the Mediterranean the thermometer still stood at 50° and upwards. The highest individual readings were 56° at Algiers, 52° at Brindisi, 50° at Malta and 48° at Cagliari; the lowest 1° F. at Archangel, 12° at Kermasand, 14° at Mleaborg, 15° at Kuopio, 19° at Moscow, 28° at Aberdeen, Loughborough and Cambridge and 29° at Cracow.

During the day the anticyclone in Ireland grew higher and spread all over the Kingdom, with colder and more foggy weather, but drier than of late.

FOR THE 24 HOURS ENDING ON THE 28<sup>th</sup> DECEMBER 1886.

The reports for the 28<sup>th</sup> December showed that at 8 am on that day pressure varied from 30.3 ins and upwards over Spain, the south-west of France and Central Russia to about 29.3 ins off the extreme north-western coasts of Europe, and to about 29.7 ins over the Gulf of Genoa, while the deep depression which passed over the Channel on the 26<sup>th</sup>, and Belgium next day had reached the south-east of Sweden and had almost completely filled up. The wind had consequently backed to W and SW over Western Europe and moderated in most places (though it blew hard at Belmullet) and the weather was cloudy, with showers locally in several districts. Temperature was below the freezing point over Northern and Eastern Europe as well as over Switzerland, the east of France and Central Spain. In the south of the British Isles and the west of France it was much higher and over the western and south-eastern parts of the Mediterranean it exceeded 50°. The highest individual readings were 56° at Algiers and Malta, 52° at Brindisi and 50° at Lorient, Mahant and Brest; the lowest were -10° F. at Archangel, +13° F. at Moscow, 19° at Kermasand, 23° at Rodez, 24° at Janio and 32° at Aberdeen; over the Continent the temperature at Land Stations was much lower than that on the coasts.

During the day the low-pressure area in the north-west moved south-eastwards to the North Sea, the weather over the British Isles became rather colder, showers less frequent, and the wind veered to the NW<sup>th</sup>.

## EXPLANATION OF COLUMNS GIVEN ON PAGE 1.

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

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

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

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



## CORRECTIONS AND ADDITIONS TO THE REPORTS FOR

DEC<sup>r</sup>

1886

## 1. REPORTS RECEIVED TOO LATE FOR INSERTION DAILY.

DATE.	STATIONS.	† YESTERDAY EVENING.						8 A.M. TO DAY.										PAST 24 HOURS.		
		Barometer at 32° F. and Sea Level.	Temp. in Shade.	WIND.		Weather.		BAROMETER.		SHADE TEMP.			WIND.		Weather.	Sea. (0 to 9.)		SHADE TEMP.		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	Nice	29.76	47	NE	1	0		29.71	-19	40	-	-3	E	3	c	3		52	39	
-	Perpignan	29.91	47	NW	4	0		29.92	-	43	-	-	NW	4	bc	2		44	41	
-	Corunna	"	"	"	"	"		30.17	-11	45	44	-3	E	1	c	5		55	45	0.24
2	Brussels	"	"	"	"	"		29.75	-08	35	-	-2	WSW	2	bc	2		42	34	0.04
-	Corunna	"	"	"	"	"		30.21	+04	40	39	-5	E	1	0	5		52	39	0.16
3	The Helder	29.80	43	NW	3	6		29.93	+36	37	?	-5	NW	1	0	1		?	?	0.08
-	Corunna	"	"	"	"	"		30.11	+10	46	-	+6	E	1	0	3		54	39	0.04
4	Nice	29.78	39	ESE	1	6		29.81	-	36	-	-	E	3	6	1		43	32	0.04
-	Corunna	"	"	"	"	"		29.97	-14	50	-	+4	SW	4	n	4		52	?	0.08
5	The Helder	29.73	31	S	4	5		29.92	+01	37	-	+4	NW	1	6	1		39	30	0.24
6	The Helder	29.87	43	SW	5	0		29.64	-23	50	-	+13	WSW	5	n	3		50	37	
-	Brussels	"	"	"	"	"		29.91	-08	37	37	+12	SW	7	A	2		37	?	0.04
-	Corunna	"	"	"	"	"		30.38	+13	51	51	-1	NNE	1	0	4		55	50	
7	Corunna	"	"	"	"	"		30.20	-18	53	53	+2	W	5	n	4		57	50	0.12
8	Haparanda	28.82	29	Z	0	0		28.79	-00	31	31	+4	SE	2	0	2		?	23	0.12
-	Hernösand	28.73	12	Z	0	6		28.82	+04	10	9	-21	N	2	0	2		30	?	
-	Stockholm	28.89	32	SW	2	0		28.95	+04	31	?	-2	W	2	6	2		36	30	0.08
-	Frisby	28.96	40	WSW	4	6		29.01	-00	39	37	0	W	6	c	2		43	37	0.20
-	Boå	28.59	30	ESE	4	6		28.62	+07	28	23	-1	ESE	4	6	2		32	25	
-	Christiansund	28.56	36	SW	9	5		28.66	+10	34	33	-5	SW	8	3	6		?	32	0.39
-	Skudesnaes	28.92	40	N	7	2		28.89	+02	36	35	-5	SSE	4	0	4		44	?	
-	Christiansfjord	28.49	40	WSW	6	6		28.93	+06	39	36	+3	WSW	8	6	3		41	?	
-	Valencia	29.51	44	SW	4	0		28.31	-135	43	41	0	WSW	10	0	8		51	41	1.08
-	Pembroke	29.55	46	NW	6	0		28.41	-117	45	45	+7	WSW	10	e	8		50	?	0.25
-	Corunna	"	"	"	"	"		29.76	-044	58	56	+5	SW	8	A	4		59	48	0.04
9	Pembroke	28.09	45	WSW	11	n		28.65	+24	44	41	-1	NW	7	e	7		46	38	0.75
-	Brest	28.89	45	NW	9	0		28.92	-02	45	-	-8	W	8	0	7		54	43	
-	Biarritz	29.32	62	SW	11	n		29.49	-27	46	-	-5	NW	12	n	9		?	43	0.51
11	Pembroke	29.43	47	WSW	3	6		29.29	-06	51	50	+7	SSW	6	ogf	6		51	43	0.06
-	Corunna	"	"	"	"	"		29.89	+11	60	-	+10	SW	7	0	5		61	48	0.91
12	Cape Gris Neg	29.48	49	SW	5	0		29.35	-22	48	-	+6	W	9	c	7		50	37	0.20
13	Berlin	29.29	41	SW	4	c		29.47	+11	41	40	+3	N	2	c	2		46	?	
-	Biesbaden	"	"	"	"	"		29.73	+33	44	42	-5	SW	4	0	2		50	41	0.16
-	Munich	29.72	41	W	5	n		29.88	+28	39	37	-8	W	8	n	2		52	34	0.55
-	Cape Gris Neg	29.51	49	W	8	0		29.71	+36	48	-	0	W	8	bc	6		54	43	
-	Perpignan	30.10	56	NW	4	6		30.17	+13	40	-	+1	SE	1	bc	2		?	39	
-	Corunna	"	"	"	"	"		29.94	-	59	56	-	SSW	8	0	4		59	54	
14	Pembroke	29.41	44	E	4	0		29.24	-17	44	44	-2	ESE	6	ngf	5		47	40	0.36
-	Cape Gris Neg	29.61	45	SE	1	n		29.52	-19	40	-	-8	ESE	5	n	3		52	39	0.59
-	Nice	29.94	61	E	1	6		29.96	-00	43	-	-7	E	3	6	1		?	41	
-	Corunna	"	"	"	"	"		29.82	-12	54	53	-5	SW	5	n	4		63	54	0.59
15	Cape Gris Neg	29.55	50	WSW	7	0		29.26	-26	49	-	+9	SW	7	0	5		52	?	0.10
-	Corunna	"	"	"	"	"		29.77	-05	45	42	-9	WSW	5	bc	5		59	43	0.67
16	Cape Gris Neg	29.26	43	WSW	9	0		29.42	+16	44	-	-5	SW	7	0	5		50	41	0.28
-	Corunna	"	"	"	"	"		29.52	-25	48	45	+3	WSW	5	n	6		60	41	1.50
17	Corunna	"	"	"	"	"		?	-	52	50	+4	WSW	1	c	3		55	45	
18	Cape Gris Neg	29.66	40	SE	1	0		29.63	+02	35	-	-5	N	7	n	5		43	34	?
-	Nice	29.51	53	Z	0	0		29.90	+17	42	-	+1	E	3	n	1		55	45	0.51
-	Corunna	"	"	"	"	"		29.61	-	51	-	-1	NNE	1	n	3		59	50	0.20
20	Cape Gris Neg	29.79	33	E	1	c		29.89	+10	37	-	0	NNE	7	0	6		41	32	
-	Corunna	"	"	"	"	"		29.89	+26	40	39	-8	NNE	8	c	6		50	37	0.08
21	Nice	29.62	54	WSW	1	0		29.36	-33	34	-	-17	Z	0	6	4		55	32	0.16
-	Corunna	"	"	"	"	"		30.41	+52	38	36	-2	ESE	3	6	4		46	36	
-	Molin.Hd. 2pm	-	-	-	-	-		29.84	-	36	36	-	E	6	n	5		-	-	
22	Pembroke	30.21	45	WSW	4	c		29.60	-77	48	48	+44	SW	7	ngf	7		48	31	0.38
-	Cape Gris Neg	30.32	33	Z	0	0		30.12	-18	30	-	-3	S	5	0	3		37	27	
-	Corunna	"	"	"	"	"		30.41	-00	36	-	-2	SE	1	0	3		46	32	0.79
23	Corunna	"	"	"	"	"		30.15	-26	53	52	+17	WSW	8	n	4		54	36	0.16
24	Cape Gris Neg	29.93	43	NW	8	6		29.71	+11	45	-	+4	WSW	5	n	5		48	41	0.16
-	Corunna	"	"	"	"	"		30.14	-01	54	?	+1	W	5	n	4		54	50	1.46
25	The Helder	29.42	40	SW	1	c		29.66	+02	41	-	+2	WSW	5	c	4		43	37	0.39
-	Cape Gris Neg	29.45	46	WSW	7	n		29.89	+18	40	-	-5	W	7	6	5		50	39	0.83
26	Cape Gris Neg	29.99	42	W	3	6		29.95	+06	39	-	-1	WSW	5	0	1		45	39	
-	Corunna	"	"	"	"	"		29.98	-17	54	-	+5	SSW	5	0	4		54	48	



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 ...	29.395	35.9	31.7	39.9	35.8	23	17 <sup>th</sup>	46	5 <sup>th</sup>	0.181
	{ Wick ...	29.473	33.8	27.3	38.5	32.9	16	20 <sup>th</sup>	44	5 <sup>th</sup>	.168
	{ Stornoway ...	29.514	35.9	30.1	40.0	35.1	22	21 <sup>st</sup>	48	4 <sup>th</sup>	.190
1. SCOTLAND, E.	{ Nairn... ..	29.489	33.6	27.8	38.6	33.2	15	27 <sup>th</sup>	54	5 <sup>th</sup>	.171
	{ Aberdeen ...	29.497	32.4	27.3	37.4	32.4	12	20 <sup>th</sup> 21 <sup>st</sup>	43	5 <sup>th</sup> + 6 <sup>th</sup>	.153
	{ Leith ...	29.538	35.0	30.8	40.3	35.6	22	21 <sup>st</sup>	52	5 <sup>th</sup>	.182
2. ENGLAND, N.E.	{ Shields ...	29.552	34.8	29.9	40.4	35.2	19	21 <sup>st</sup>	54	5 <sup>th</sup>	.172
	{ York ...	29.603	33.5	29.2	40.1	34.7	19	21 <sup>st</sup>	52	5 <sup>th</sup>	.172
	{ Spurn Head ...	29.580	36.9	32.8	40.6	36.7	25	18 <sup>th</sup> + 22 <sup>nd</sup>	50	6 <sup>th</sup>	.201
3. ENGLAND, E.	{ Yarmouth ...	29.622	35.4	30.9	40.0	35.5	21	3 <sup>rd</sup> 4 <sup>th</sup> + 22 <sup>nd</sup>	51	6 <sup>th</sup>	.186
	{ Cambridge ...	29.668	34.0	28.8	41.1	35.0	18	20 <sup>th</sup>	55	6 <sup>th</sup>	.178
4. MIDLAND COUNTIES.	{ Loughborough ...	29.641	33.4	29.9	40.8	35.4	17	21 <sup>st</sup> + 22 <sup>nd</sup>	55	6 <sup>th</sup>	.175
	{ Oxford ...	29.693	35.0	31.5	41.7	36.6	20	20 <sup>th</sup>	54	6 <sup>th</sup>	.174
5. ENGLAND, S.	{ London ...	29.690	35.8	31.4	43.1	37.3	19	22 <sup>nd</sup>	54	6 <sup>th</sup>	.184
	{ Dungeness ...	29.686	38.2	32.8	45.1	39.0	19	4 <sup>th</sup>	52	6 <sup>th</sup> + 14 <sup>th</sup>	.216
	{ Hurst Castle... ..	29.721	39.0	33.9	45.5	39.4	23	3 <sup>rd</sup>	52	6 <sup>th</sup> 7 <sup>th</sup> 15 <sup>th</sup> 17 <sup>th</sup>	.222
6. SCOTLAND, W.	Ardrossan ...	29.553	37.7	32.4	42.5	37.5	21	20 <sup>th</sup>	51	5 <sup>th</sup>	.213
7. ENGLAND, N.W.	{ *Hawes Junction ...	28.338	31.0	26.6	35.3	31.0	13	18 <sup>th</sup>	47	5 <sup>th</sup>	.169
	{ Barrow-in-Furness ...	29.594	37.3	33.3	41.6	37.5	23	21 <sup>st</sup>	51	5 <sup>th</sup>	.195
	{ Liverpool Obs <sup>y</sup> (Bidston) ...	29.624	37.2	33.9	41.9	37.9	21	21 <sup>st</sup>	54	5 <sup>th</sup>	.187
	{ Holyhead ...	29.634	41.7	38.2	45.1	41.7	32	18 <sup>th</sup> 21 <sup>st</sup> 23 <sup>rd</sup>	53	5 <sup>th</sup>	.224
8. ENGLAND, S.W.	{ Pembroke ...	29.693	42.5	38.5	46.0	42.3	29	18 <sup>th</sup>	53	5 <sup>th</sup>	.244
	{ Prawle Point ...	29.754	40.3	35.3	47.3	41.3	26	20 <sup>th</sup>	53	4 <sup>th</sup>	.227
9. IRELAND, N.	{ Malin Head ...	29.564	38.9	35.4	42.9	39.2	31	17 <sup>th</sup> 18 <sup>th</sup> 20 <sup>th</sup> 21 <sup>st</sup>	50	4 <sup>th</sup> + 5 <sup>th</sup>	.211
	{ Donaghadee ...	29.598	37.5	32.4	42.4	37.4	24	18 <sup>th</sup> 21 <sup>st</sup>	52	5 <sup>th</sup>	.205
	{ Mullaghmore ...	29.619	40.0	34.6	43.4	39.0	23	21 <sup>st</sup>	52	5 <sup>th</sup>	.213
	{ Belmullet ...	29.649	41.1	36.6	44.0	40.3	30	18 <sup>th</sup>	52	5 <sup>th</sup>	.214
10. IRELAND, S.	{ Parsonstown... ..	29.691	34.9	30.2	41.8	36.0	13	21 <sup>st</sup>	53	5 <sup>th</sup>	.185
	{ Valencia ...	29.743	42.9	39.2	48.1	43.7	24	20 <sup>th</sup>	54	5 <sup>th</sup>	.246
	{ Roche's Point ...	29.739	40.6	36.0	46.2	41.1	26	21 <sup>st</sup>	55	5 <sup>th</sup>	.223
CHANNEL ISLANDS.	{ Scilly (St. Mary's) ..	29.748	46.2	41.6	48.9	45.3	32	20 <sup>th</sup>	54	6 <sup>th</sup>	.257
	{ Jersey (Noirmont) ...	29.777	43.2	39.3	47.2	43.3	32	20 <sup>th</sup> + 21 <sup>st</sup>	53	5 <sup>th</sup>	.247
* Hawes Junction is 1135 feet above mean Sea Level and the											

\* Hawes Junction is 1185 feet above mean Sea Level and the



STATIONS in the BRITISH ISLANDS during the Month of *DECEMBER 1886.*

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								
					Rair.	Snow	Hail	Thunderstorms	Clear Sky	Overcast	Gales	North	N.E.	East	S.E.	South	S.W.	West	N.W.	Calms
%		ins.	in.																	
86	7.3	4.68	0.93	22 <sup>nd</sup>	27	10	1	0	5	16	2	11	5	1	0	4	3	3	1	3
86	7.4	4.36	0.70	8 <sup>th</sup>	29	12	2	0	1	13	4	6	2	3	1	3	3	7	6	0
90	6.6	8.84	0.95	8 <sup>th</sup>	30	16	12	0	6	12	10	5	3	3	1	2	2	6	9	0
88	6.5	2.77	0.44	8 <sup>th</sup>	22	9	0	1	4	12	1	3	0	1	0	1	7	5	3	11
83	4.7	4.23	0.89	22 <sup>nd</sup>	20	12	3	0	13	8	3	5	0	0	1	1	6	9	8	1
89	6.0	2.10	0.54	11 <sup>th</sup>	16	3	0	1	8	9	1	2	1	0	2	1	1	7	6	1
85	6.4	3.26	0.98	11 <sup>th</sup>	15	6	1	0	6	12	5	2	1	1	0	3	9	11	3	1
90	5.5	3.16	0.50	12 <sup>th</sup>	18	3	0	0	12	13	0	6	0	1	0	8	3	8	5	0
92	3.8	3.65	1.00	14 <sup>th</sup>	23	3	0	0	11	3	7	2	0	1	2	4	5	9	8	0
90	4.1	3.22	0.92	26 <sup>th</sup>	19	4	0	1	11	4	6	3	1	1	0	3	4	10	9	0
90	5.0	3.20	1.09	26 <sup>th</sup>	18	4	0	0	14	10	1	4	1	0	0	6	7	6	4	0
92	6.4	3.52	0.65	14 <sup>th</sup>	19	8	1	0	7	14	6	1	0	5	2	3	3	10	5	2
85	5.4	4.58	1.46	26 <sup>th</sup>	18	3	1	0	13	11	1	2	1	0	2	2	7	10	3	4
88	6.0	4.72	1.82	26 <sup>th</sup>	20	5	2	1	11	15	6	1	0	0	1	5	5	11	5	3
94	6.8	4.95	0.86	26 <sup>th</sup>	20	6	1	2	4	13	5	6	1	1	0	1	4	11	7	0
94	5.2	5.71	1.64	26 <sup>th</sup>	23	0	3	0	11	8	8	4	4	0	1	0	5	10	7	0
95	5.7	2.38	0.48	22 <sup>nd</sup>	18	3	3	1	11	13	6	4	7	3	0	1	3	5	7	1
97	6.2	8.80	1.61	11 <sup>th</sup>	24	12	2	0	10	17	1	3	3	1	3	4	7	7	2	1
87	6.0	4.88	0.65	11 <sup>th</sup>	22	1	1	0	3	10	5	8	7	0	2	4	7	4	5	0
84	5.9	3.80	0.41	6 <sup>th</sup> 11 <sup>th</sup>	24	5	8	2	10	12	3	2	2	2	4	2	5	7	7	0
86	6.3	5.13	0.77	21 <sup>st</sup>	23	3	3	0	3	7	6	4	3	2	0	3	6	7	7	0
90	6.1	5.54	0.75	9 <sup>th</sup>	22	3	0	0	3	7	8	1	5	5	1	1	4	4	10	0
92	5.6	5.39	1.04	13 <sup>th</sup>	24	1	3	0	10	9	6	6	2	1	0	2	6	7	7	0
90	9.2	4.20	0.82	23 <sup>rd</sup>	30	5	9	1	1	25	3	6	3	2	0	5	3	4	8	0
91	4.1	4.26	0.71	7 <sup>th</sup>	24	5	0	0	13	4	7	2	4	2	0	0	4	15	4	0
86	7.1	6.70	0.69	7 <sup>th</sup>	26	5	10	1	3	7	13	3	4	2	3	1	5	4	9	0
83	7.1	5.88	1.01	7 <sup>th</sup>	29	6	1	0	5	17	4	6	2	2	2	1	4	6	8	0
91	5.9	4.86	0.98	7 <sup>th</sup>	20	2	1	0	7	10	0	0	0	1	1	1	9	4	1	4
89	7.0	7.62	1.68	7 <sup>th</sup>	29	3	3	0	3	11	5	4	3	3	2	0	4	5	7	3
89	5.2	5.78	0.95	21 <sup>st</sup>	22	1	0	0	12	8	3	4	2	1	0	1	3	9	11	0
83	8.5	5.93	1.22	26 <sup>th</sup>	27	0	6	2	0	17	13	6	1	2	3	2	4	5	8	0
88	6.9	6.54	0.78	26 <sup>th</sup>	28	7	12	3	4	13	8	4	4	2	2	2	7	5	5	0

Barometric Observations at this Station are not corrected for altitude.



## REPORTS RECEIVED TOO LATE FOR INSERTION DAILY—(continued.)

DATE.	STATIONS.	† YESTERDAY EVENING.						8 A.M. TO DAY.										PAST 24 HOURS.		
		Barometer at 32° F. and Sea Level.	Temp. in Shade.	WIND.		Weather.	BAROMETER.		SHADE TEMP.			WIND.		Weather.	Sea. (0 to 2.)	SHADE TEMP.		Amount of Rainfall.		
				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.			
27	Haparanda	29.90	11	SE	0	O	29.85	+0.02	15	14	+3	NE	2	S	6	?	9	0.12		
	Hernösand	29.76	23	SE	0	O	29.79	+0.06	25	24	+4	SE	0	S	8	28	16	0.04		
	Stockholm	29.80	31	SE	0	bc	29.79	+0.01	32	32	+2	S	2	O	8	24	21			
	Swidby	29.80	34	SSE	2	O	29.83	+0.07	35	34	+2	frw	1	O	8	37	28	0.04		
	Bodo	29.67	23	ENE	5	b	29.71	+0.09	20	17	0	ENE	4	b	2	34	28			
	Christiansund	29.55	33	ESE	2	bc	29.62	+0.21	34	32	+4	E	4	c	3	34	28			
	Skudesnaes	29.69	34	SE	0	bc	29.75	+0.25	33	32	-4	E	4	c	3	39	?			
	Christiania fjord	29.67	27	NW	4	O	29.77	+0.10	34	?	-4	NW	2	O	2	28	21			
	SKAGEN	29.69	33	SE	0	b	29.73	+0.05	34	33	+1	SSE	1	O	1	36	30			
	Tand	29.74	34	SW	4	c	29.57	-0.19	32	31	-5	E	4	O	8	37	30	0.04		
	Malin Head	29.67	36	N	2	c	29.83	+0.13	40	40	+5	NW	3	O	3	40	34	0.08		
	Barrow-in-Furness	29.61	37	E	2	O	29.76	+0.03	33	32	-8	NE	3	bc	8	42	32			
	Parsonstown	29.73	32	SE	0	b	29.99	+0.18	35	33	+2	SW	1	c	8	35	29			
	Pembroke	29.50	37	NNE	5	n	29.89	+0.10	40	39	+1	NW	6	cgy	5	42	35	0.60		
	Scilly	29.36	41	N	10	n	29.97	+0.21	45	40	-5	NW	8	c	7	47	39	1.22		
	Praia Point	29.09	34	NW	7	n	29.88	+0.08	36	34	+1	NW	3	bc	3	50	32	0.70		
	Jersey	29.18	46	SSE	7	n	29.80	-0.08	40	36	+6	NW	7	cm	6	50	34	0.78		
	Hurst Castle	29.17	43	SE	8	n	29.69	-0.18	35	34	+1	NW	6	b	4	45	31	1.64		
	Dungeness	29.60	40	NW	5	n	29.36	-0.55	35	35	-6	N	8	S	5	45	33	0.86		
	Osford	29.33	32	ENE	4	S	29.67	-0.21	33	31	-2	NW	4	b	8	37	32	1.46		
	Cambridge	29.50	38	NW	2	n	29.57	-0.31	34	34	0	N	3	O	8	38	31	1.09		
	Yarmouth	29.65	37	S	4	n	29.37	-0.51	36	35	+2	N	7	c	6	38	32	0.92		
	Cuxhaven	29.87	34	SW	4	O	29.72	-0.18	31	31	0	SE	6	S	8	34	29			
	Berlin	30.03	26	SW	1	b	29.71	-0.29	30	28	-2	ESE	3	O	8	37	25			
	Masbadon	?	8	SE	8	8	29.47	-0.66	34	32	0	SE	4	O	8	36	32	0.04		
	Munich	29.98	19	E	3	b	29.72	-0.45	20	19	-9	SSE	2	O	8	34	16			
	The Helder	29.73	35	S	1	S	29.23	-0.67	34	34	-6	ENE	4	S	3	41	34	0.87		
	Brussels	?	4	SE	8	8	29.05	-0.99	35	35	+2	SSE	1	8	8	40	32	0.28		
	Cape Gris Neg.	29.26	35	S	8	n	29.28	-0.67	37	37	-2	N	10	n	7	39	32	0.48		
	Paris	29.71	36	SSE	3	O	29.41	-0.68	37	35	+5	NW	8	n	8	37	?	0.04		
	Brest	?	?	?	?	?	29.96	-	40	-	-6	NW	4	c	7	50	37	0.47		
	Lorient	29.37	47	W	11	n	29.95	+0.07	43	39	-5	NW	8	b	2	50	?	0.83		
	Rocheport	29.76	46	SSW	7	O	29.97	-0.10	48	41	+11	SW	8	c	3	48	?	0.32		
	Lyon	29.95	32	SSE	1	b	29.75	-0.43	44	41	+17	NW	3	O	8	?	?	0.04		
	Perpignan	29.99	48	SE	0	O	29.89	-0.23	47	40	+16	NW	8	O	8	52	?			
	Biarritz	30.54	55	S	5	b	29.87	-0.14	49	48	+8	SW	8	O	5	57	41	0.12		
	Cornwall	?	?	?	?	?	30.32	+0.32	49	46	-5	ENE	8	bc	6	69	46	0.43		
	Lisbon	30.10	54	E	3	O	30.21	+0.12	52	51	+2	NW	4	O	2	55	48			
	Dungeness 2pm.	-	-	-	-	-	29.98	-	36	35	-	N	8	O	4	-	-			
	Yarmouth 2pm.	-	-	-	-	-	29.66	-	37	36	-	NW	5	cgy	5	-	-			
	Rocheport 2pm.	-	-	-	-	-	30.13	-	47	43	-	NW	8	b	3	-	-			
28	Scilly	30.10	49	W	6	O	30.00	+0.03	49	45	+4	NW	6	O	6	49	43	0.02		
	Praia Point	30.07	43	W	3	bc	29.99	+0.11	44	43	+8	NW	4	c	4	48	35	0.08		
	Jersey	30.10	43	NW	4	b	30.00	+0.20	49	49	+9	W	6	opm	5	49	40	0.23		
	Dungeness	29.91	34	NW	4	c	29.88	+0.47	45	45	+10	W	4	n	3	46	33	0.15		
	Yarmouth	29.78	36	NW	4	c	29.77	+0.40	37	37	+1	W	2	bc	4	39	30	0.11		
	Cuxhaven	29.42	30	SE	4	S	29.74	+0.02	38	35	+7	SW	3	O	8	?	29			
	The Helder	29.70	38	NW	5	bc	29.67	+0.44	40	37	+6	SW	4	n	3	?	34	0.43		
	Brussels	?	?	?	?	?	29.38	+0.83	39	38	+4	SW	5	O	8	39	34	0.32		
	Cape Gris Neg.	29.54	39	NW	7	O	29.83	+0.55	47	47	+10	SW	8	O	5	?	36	0.67		
	Paris	29.99	39	NW	4	O	30.09	+0.68	37	36	0	SEW	4	O	8	41	31	0.04		
	Brest	30.12	47	NW	5	O	30.12	+0.16	51	49	+11	NW	4	f	5	61	39			
	Lorient	30.22	45	NW	7	b	30.17	+0.22	50	48	+7	W	5	O	5	50	39	0.04		
	Rocheport	30.25	46	NW	8	b	30.34	+0.37	46	45	-2	SW	4	c	2	52	37	0.08		
	Belmont	29.93	35	SW	3	O	30.19	+0.56	32	31	-7	S	1	O	8	40	26			
	Lyon	30.08	38	NW	5	S	30.31	+0.56	33	31	-11	W	5	b	8	?	?			
	Nice	29.78	39	ENE	3	n	29.95	+0.04	39	32	-3	E	3	b	2	43	36	0.83		
	Perpignan	30.11	44	NW	7	b	30.26	+0.37	43	39	-4	ENE	3	b	8	49	32			
	Cornwall	?	?	?	?	?	30.42	+0.10	39	38	-10	ESE	3	bc	5	52	36			
	Lisbon	30.26	55	N	5	b	30.36	+0.15	42	40	-10	NNE	5	b	2	55	41			
	Jersey 2pm.	-	-	-	-	-	29.97	-	48	44	-	W	5			-	-			
	Rocheport 2pm.	-	-	-	-	-	30.23	-	50	48	-	W	7	n	6	-	-			
29	Malin Head	29.36	38	NW	6	O	29.80	+0.32	44	42	+7	NW	6	ghy	7	48	35	0.20		
	Scilly	29.96	46	NW	9	c	30.11	+0.11	49	46	0	NW	8	bl	7	50	42	0.29		
	Praia Point	29.91	43	NW	8	bc	30.06	+0.05	43	41	-1	NW	5	cgy	5	48	38	0.10		
	Jersey	29.95	46	NW	5	O	30.03	+0.03	43	41	-4	NW	6	bc	5	49	40	0.37		



## REPORTS RECEIVED TOO LATE FOR INSERTION DAILY—(continued.)

DATE.	STATIONS.	† YESTERDAY EVENING.						3 A.M. TO DAY.										PAST 24 HOURS.		
		Barometer at 32° F. and Sea Level.	Temp. in Shade.	WIND.		Weather.	BAROMETER.		SHADE TEMP.			WIND.		Weather.	Sea. (0 to 9.)	SHADE TEMP.		Amount of Rainfall.		
				Direc.	Force. (0 to 12.)		Reading at 32° F. and Sea Level.	Difference from 3 a.m. yesterday.	Dry.	Wet.	Difference from 8 a.m. yesterday.	Direc.	Force. (0 to 12.)			Max.	Min.			
29	The Helder	29.65	40	WSW	3	C	29.67	1.00	38	37	- 2	W	3	S	3	41	37	0.04		
-	Brussels	"	"	"	"	"	29.77	- 1.1	35	35	- 4	SW	1	C	"	44	35	0.16		
-	Cape Gris Neg.	29.43	46	W	7	O	29.78	-0.5	41	38	- 6	W	7	C	5	48	39	0.04		
-	Paris	29.95	43	SSW	3	O	29.91	- 1.8	37	36	0	WNW	4	bc	"	45	35	0.08		
-	Brest	30.08	50	NW	5	b	30.14	+0.2	48	44	- 3	WNW	8	bc	5	"	43	0.16		
-	Lorient	30.10	49	WNW	5	b	"	-	47	44	- 3	"	7	bc	5	50	43	0.12		
-	Rochefort	30.23	50	W	7	n	30.19	- 1.5	47	44	+ 1	NW	7	bc	3	52	41	0.12		
-	Belfast	30.05	35	S	1	n	29.84	- 1.35	35	-	+ 3	S	3	n	"	37	31	0.20		
-	Lyons	30.23	37	S	1	O	29.97	- 1.34	37	36	+ 4	W	4	n	"	42	"	0.08		
-	Nice	30.04	45	E	3	O	29.79	- 1.6	44	-	+ 5	E	1	C	1	55	37	-		
-	Perpignan	30.25	48	NW	1	b	30.06	- 1.20	48	46	+ 5	NW	7	n	"	53	43	0.04		
-	Biarritz	30.36	53	W	5	O	30.26	- 1.13	52	-	+ 7	W	8	n	6	54	45	0.12		
-	Corunna	"	"	"	"	"	30.50	+0.08	46	45	+ 7	ESE	1	C	7	54	37	-		
-	Lisbon	30.37	50	NW	5	b	30.37	+0.01	43	40	+ 1	N	1	b	2	55	41	-		
-	Jersey 2pm	-	-	-	-	-	30.08	-	47	44	-	NW	5	O	4	-	-	-		
30	Silly	-	-	-	-	-	30.29	+1.18	48	46	- 1	NNE	4	O	5	50	46	0.06		
-	Prawle Point	30.13	43	WNW	2	C	30.31	+1.27	55	34	- 8	NNE	1	b	2	46	34	-		
-	Jersey	30.10	45	WNW	4	bc	30.26	+1.23	40	38	- 5	NNE	1	bcn	2	47	40	0.02		
-	The Helder	29.89	37	W	0	b	30.12	+1.45	36	35	- 2	Z	0	C	3	41	36	0.24		
-	Brussels	"	"	"	"	"	30.13	+1.36	34	33	- 1	WNW	1	b	"	39	33	0.12		
-	Cape Gris Neg.	29.94	43	NW	7	b	30.22	+1.44	39	-	- 2	NNE	5	O	5	46	37	0.08		
-	Nice	29.73	47	NW	8	b	29.79	0.00	35	-	- 9	E	5	b	1	52	32	-		
-	Corunna	"	"	"	"	"	30.44	-0.06	46	-	0	ESE	3	f	6	54	44	0.08		
-	Lisbon	30.31	50	NW	3	b	30.28	-0.09	44	40	+ 1	NNE	7	b	2	55	41	-		
31	Cape Gris Neg.	30.41	39	NE	7	O	30.51	+1.29	33	-	- 6	E	3	bc	5	41	32	-		
-	Belfast	30.10	33	SSW	1	O	30.17	+1.17	30	-	- 1	N	1	C	"	37	24	-		
-	Corunna	"	"	"	"	"	30.32	-1.12	50	-	+ 4	NW	7	C	6	52	45	-		
-	Lisbon	30.22	52	N	5	bc	30.17	-1.1	43	40	- 1	NNE	5	b	2	57	43	-		



## 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.
				Dirce.	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.	Dirce.	Force. (0 to 12.)			Max.	Min.	
2 <sup>nd</sup>	Ardrassan.....	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.03
"	Valencia.....	—	—	—	—	—	—	—	—	—	—	SE	—	—	—	—	4.1	—
"	Mullaghmore.....	—	—	—	—	—	—	—	—	34	—	—	—	—	—	—	—	—
"	Cambridge.....	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.03
3 <sup>rd</sup>	Varmouth.....	—	—	—	—	—	30.00	+ .24	—	—	—	—	—	—	—	—	—	—
4 <sup>th</sup>	Shields.....	—	—	—	—	—	—	—	—	—	—	SW	—	—	—	—	—	—
6 <sup>th</sup>	Stornoway.....	29.34	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
7 <sup>th</sup>	Belmullet.....	—	—	—	—	—	—	—	—	—	—	—	—	—	—	49	—	—
"	Dunginess.....	29.76	—	N	—	—	—	—	—	—	—	—	—	—	—	—	—	—
"	Lyons.....	—	31	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
8 <sup>th</sup>	Spurn H <sup>d</sup> .....	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	34	—
"	Ardrassan.....	—	36	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
"	Donaghadee.....	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
"	Roches Point.....	29.52	—	—	—	—	—	—	—	—	—	—	—	—	—	—	33	—
"	Holyhead.....	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
9 <sup>th</sup>	Ardrassan.....	—	38	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.50
10 <sup>th</sup>	Shields.....	27.41	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
11 <sup>th</sup>	Parsonstown.....	—	—	—	—	—	—	—	—	—	—	—	—	—	—	42	—	—
"	Ardrassan 2 pm.....	—	—	—	—	—	—	—	—	—	—	SSW	—	—	—	—	—	0.10
17 <sup>th</sup>	Roches Point.....	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
"	Jersey.....	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.32
"	Dunginess.....	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.31
13 <sup>th</sup>	Sumburgh H <sup>d</sup> .....	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	No rain
15 <sup>th</sup>	Mullaghmore.....	—	—	—	—	—	29.21	— .15	—	—	—	—	—	—	—	—	36	—
"	Pravie Point.....	—	50	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
"	Mullaghmore 2 pm.....	—	—	—	—	—	—	—	—	—	—	6	—	—	—	—	—	—
16 <sup>th</sup>	Stornoway.....	—	—	NNW	—	—	—	—	—	—	—	—	—	—	—	—	—	—
"	Nairn.....	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	27	—
"	Dunginess.....	—	—	—	—	—	29.35	+ .19	—	—	—	—	—	—	—	—	—	—
17 <sup>th</sup>	Barron in Farness.....	29.55	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
18 <sup>th</sup>	Ardrassan.....	—	—	NNW	—	—	—	—	—	—	—	—	—	—	—	—	—	—
"	Barron in Farness.....	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	25	—
"	Pembroke.....	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.07
"	Dunginess.....	—	—	SE	—	—	—	—	—	—	—	—	—	—	—	—	—	—
"	Ardrassan 2 pm.....	—	—	—	—	—	29.62	—	—	—	—	—	—	—	—	—	—	—
20 <sup>th</sup>	Valencia.....	—	26	—	—	—	—	—	—	—	—	—	—	—	—	—	24	—
"	Scilly.....	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.46
"	Cambridge.....	29.79	29	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
21 <sup>st</sup>	Belmullet.....	—	—	ESE	—	—	—	—	—	—	—	—	—	—	—	—	—	—
"	Valencia.....	—	27	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
"	Cambridge.....	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	27	—
22 <sup>nd</sup>	Loughborough.....	30.32	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.02
"	Belmullet.....	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.05
"	Valencia.....	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
23 <sup>rd</sup>	Ardrassan.....	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	40	0.97
"	Malin Head.....	29.50	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.48
"	Valencia.....	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
"	Roches Point.....	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	36	—
"	Belmullet.....	—	15	—	—	—	—	—	—	—	—	—	—	—	—	—	33	—
24 <sup>th</sup>	Mullaghmore 2 pm.....	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.38
"	Belmullet 2 pm.....	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
25 <sup>th</sup>	Belmullet.....	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	No rain
"	Parsonstown.....	29.81	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
26 <sup>th</sup>	Belmullet.....	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
27 <sup>th</sup>	Spurn Head.....	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	33	—
"	London.....	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	1.82
"	Mullaghmore 2 pm.....	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
28 <sup>th</sup>	Barron in Farness.....	—	—	—	—	—	29.69	—	—	—	—	—	—	—	—	—	—	—
"	Valencia.....	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.17
29 <sup>th</sup>	Sumburgh H <sup>d</sup> .....	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
30 <sup>th</sup>	Barron in Farness.....	30.04	—	—	—	—	—	—	—	—	—	—	—	—	—	—	39	—