



MAP SHOWING ALL THE STATIONS REPORTING BY TELEGRAPH  
DAILY TO THE METEOROLOGICAL OFFICE, JULY, 1, 1877.

*Wagner & Co., Lith. London*

METEOROLOGICAL OFFICE.

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DAILY WEATHER REPORTS.

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

1877.



# DAILY WEATHER REPORT Nov<sup>r</sup> 1<sup>st</sup> 1877.

STATIONS.	† YESTERDAY EVENING.						8 A.M. TO DAY.										PAST 24 HOURS.		
	Barometer at 893 F. and Sea Level.	Temp. in shade.	WIND.		Weather.	Reading at 32° F. and Sea Level.	Difference from 32° F. yesterday.	SHADE TEMP.			WIND.		Weather.	Sea. (0 to 9).	SHADE TEMP.		Amount of Rainfall.		
			Direc.	Force. (0 to 12).				Dry.	Wet.	Difference from 32° F. yesterday.	Direc.	Force. (0 to 12).			Max.	Min.			
Haparanda ...	29.68	36	SE	4	r	29.57	- .27	36	36	0	E	2	r	*	? 37	34	0.43		
Hernösand ...	29.45	41	SE	2	o	29.42	- .23	40	39	- 1	NE	2	r	*	*	*	0.43		
Stockholm ...	29.27	46	SSE	2	r	29.21	- .39	43	43	- 2	NW	2	r	*	*	*	0.32		
Wisby ...	29.15	46	SSH	8	r	29.21	- .40	42	42	- 4	NW	9	p	*	*	*	0.39		
Christiansund ...	29.34	43	SH	6	r	29.59	+ .34	43	42	- 5	SSH	5	r	4	48	41	0.39		
Skudeanaes ...	29.57	48	NNH	6	r	29.77	+ .43	46	44	0	NNH	6	bc	4	48	46	0.12		
Oxö (Xtiansand)	29.55	44	SH	4	o	29.65	+ .44	43	40	- 5	NNH	4	bc	3	48	39	-		
Skagen (The Seaw)																			
Fanö ...	29.77	50	H	7	c	29.71	+ .40	49	46	- 2	NNH	8	c	*	52	46	0.04		
Cuxhaven ...	29.91	*	NW	7	r	29.90	+ .43	50	45	- 4	NW	8	c	*	52	46	0.10		
Sumburgh Head	29.30	45	H	6	r	29.90	+ .50	47	43	0	NNH	4	bc	4	50	41	0.24		
Stornoway	29.75	48	H	8	bc	30.10	+ .56	44	43	+ 3	H	2	cp	5	48	39	0.26		
Thurso ...	29.55	48	SSH	6	z	30.03	+ .50	48	45	+ 7	NNH	5	c	4	52	39	0.13		
Wick ...	29.62	46	H	8	o	30.04	+ .50	46	44	+ 3	H	5	c	2	51	41	0.05		
Nairn ...	29.74	46	SH	7	r	30.10	+ .50	47	43	+ 3	SH	2	o	1	49	43	0.12		
Aberdeen ...	29.72	46	SSH	3	o	30.11	+ .48	47	43	+ 3	H	1	bc	1	52	44	-		
Leith ...	29.86	49	SSH	4	o	30.19	+ .44	47	46	- 1	SSH	2	bc	*	53	45	0.01		
Shields ...	29.99	49	H	4	bc	30.24	+ .38	48	46	- 2	H	4	bc	1	53	46	-		
Scarborough	30.03	50	H	3	o	30.23	+ .33	48	46	- 1	NNH	2	bc	2	54	47	-		
York ...	30.08	52	H	3	c	30.27	+ .36	46	44	- 3	H	1	bc	*	56	44	-		
Nottingham ...	30.28	51	SSH	4	c	30.36	+ .33	47	45	- 3	S	1	o	*	56	42	-		
Ardrossan ...	29.99	53	NNH	5	bc	30.24	+ .42	52	48	- 1	NNH	3	o	3	54	50	0.11		
Greencastle ...	30.05	48	SH	3	o	30.27	+ .40	48	46	+ 2	H	2	o	*	54	45	0.06		
Donaghadee ...	30.12	48	NNH	4	bc	30.34	+ .40	42	42	- 4	H	2	bc	1	52	41	-		
Kingstown ...	30.23	51	NNH	3	bc	30.40	+ .36	49	45	- 1	H	3	c	3	54	47	0.01		
Holyhead ...	30.21	53	SSH	5	bc	30.38	+ .36	50	47	- 1	H	4	bc	3	54	49	-		
Liverpool (Bidston)	30.16	51	SSH	6	bc	30.34	+ .33	50	48	0	H	5	bc	4	53	49	-		
Valencia ...	30.37	50	NNH	3	bc	30.43	+ .23	51	47	0	S	1	c	2	57	49	-		
Roche's Point...	30.35	54	H	4	bc	30.44	+ .24	50	48	0	SH	2	o	3	58	49	-		
Pembroke ...	30.30	54	H	4	c	30.44	+ .27	53	47	0	NNH	1	c	3	55	52	-		
Portishead ...	30.29	51	H	4	c	30.41	+ .28	48	47	- 2	H	2	bc	2	54	45	-		
Scilly ...																			
Plymouth ...	30.36	53	NNH	1	o	30.47	+ .25	48	47	- 4	NNH	1	bc	*	58	48	-		
Hurst Castle ...	30.25	55	NNH	3	c	30.41	+ .30	49	47	- 3	NNH	2	bc	2	57	46	-		
Dover ...	30.27	52	NNH	3	bc	30.57	+ .25	46	43	- 5	NNH	3	bc	2	55	45	-		
London ...	30.27	54	H	2	o	30.37	+ .27	43	42	- 6	SSH	1	bc	*	56	42	-		
Oxford ...	*	*	*	*	*	30.40	+ .30	43	42	- 4	H	1	bc	*	55	42	-		
Cambridge ...	30.21	50	SH	1	o	30.36	+ .30	43	42	- 4	SSH	1	bc	*	57	41	0.10		
Yarmouth ...	30.13	49	SSH	3	bc	30.27	+ .31	45	44	- 3	NNH	3	bc	3	54	43	-		
The Helder ...	*	*	*	*	*	30.13	+ .37	52	49	- 2	NNH	3	c	*	*	*	-		
Cape Gris Nez	30.15	54	SSH	4	o	30.39	+ .29	50	48	- 4	NNH	4	bc	4	57	48	-		
Jersey ...	30.41	54	NNH	4	c	30.49	+ .23	53	48	- 1	NNH	3	bc	3	58	50	0.01		
Brest ...	30.50	59	NW	2	bc	30.53	+ .15	48	48	- 6	NNH	2	bc	5	59	41	-		
L'Orient ...	30.45	55	NNH	2	c	30.52	+ .16	48	48	- 6	NE	2	o	5	59	43	-		
Rocheport ...	30.40	59	NNH	4	c	30.50	+ .16	52	50	- 5	NE	4	bc	3	59	?	-		
Biarritz ...	30.44	64	N	2	o	30.45	+ .07	54	52	- 5	ENE	2	o	3	64	52	-		
Corunna ...	*	*	*	*	*										*	*	*		
Brussels ...	*	*	*	*	*	30.32	+ .26	47	*	- 7	H	0	bc	*	*	*	0.01		
Charleville ...	*	*	*	*	*	? 30.31	?	47	*	- 7	H	3	c	*	*	*	*		
Paris ...	30.36	55	NNH	3	o	30.45	+ .21	49	47	- 7	W	1	c	*	*	*	-		
Lyons ...	*	*	*	*	*	30.43	+ .14	56	*	- 3	N	2	c	*	*	*	*		
Toulon ...	30.05	64	NW	6	bc	30.13	- .02	55	48	0	N	1	bc	4	66	?	-		

## YESTERDAY'S 2 P.M. REPORTS AND REMARKS.

	Bar.	Dry.	Wet.	Wind.	Wes.	Sea.		Bar.	Dry.	Wet.	Wind.	Wes.	Sea.		
Skudesnaes ...	29.54	46	44	NNH	6	r	3	Valencia ...	30.31	55	49	H	3	c	4
Thurso .....	29.52	45	45	SSH	5	gpc	4	Seilly .....							
Scarborough ...	29.97	53	47	H	3	bc	2	London .....	30.23	55	48	H	3	o	*
Greencastle ...	29.96	52	48	H	3	o	*	Rocheport ...	30.39	59	55	NNH	4	bc	3
Holyhead .....	30.16	52	49	SSH	4	c	4								

Barometer has begun to fall slightly at Thurso, but is still rising elsewhere. Thunder is light from Hurst and the weather has become dull.

## EXPLANATION OF COLUMNS.

**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.

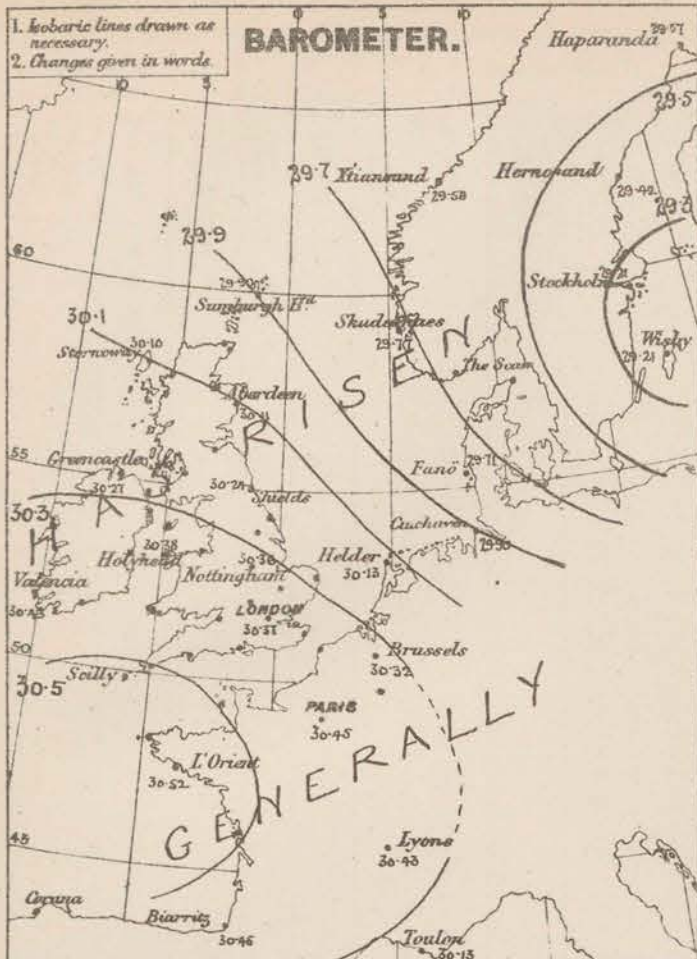
\* AN ASTERISK is inserted in all places for which information is not usually received.

† The evening observations are taken at 8 p.m. in our Islands, at 8 p.m. (Christiania time) in Sweden, Norway, and Denmark, and at 7 p.m. (Paris time) in France.

N.B.—The wind is said to "veer" when its direction changes with the sun, and to "back" when it shifts in the opposite direction.



# WEATHER CHARTS for 8 a.m. on Thursday Nov<sup>r</sup> 1<sup>st</sup> 1877.





# DAILY WEATHER REPORT Nov 2<sup>nd</sup> 1877.

STATIONS.	† YESTERDAY EVENING.					8 A.M. TO DAY.										PAST 24 HOURS.		
	Barometer at 320 P. and Sea Level.	Temp. in shade.	WIND.		Weather.	BAROMETER.		SHADE TEMP.			WIND.		Weather.	Sea. (0 to 9.)	SHADE TEMP.		Amount of Rainfall.	
			Dir.	Force. (0 to 12).		Reading at 8 A.M. and Sea Level.	Difference from 8 A.M. yesterday.	Dry.	Wet.	Difference from 8 A.M. yesterday.	Dir.	Force. (0 to 12).			Max.	Min.		
Haparanda ...																		
Hernösand ...																		
Stockholm ...																		
Wisby ...																		
Christiansund ...																		
Skudesnaes ...																		
Oxö (Xtiansand) ...																		
Skagen (The Ssaw) ...	29.91	47	N	4	8	29.99	+ .06	46	44	0	NW	3	6	3	48	43	-	
Fanö ...	30.11	49	NN	4	0	30.15	+ .04	49	48	0	N	4	6	*	50	45	0.04	
Cuxhaven ...	30.10	4	NNN	6	0	30.22	+ .32	49	49	-	NN	3	6	*	50	46	-	
Sumburgh Head ...	30.00	50	WSW	5	1	29.78	- .12	48	46	+ 1	SSE	4	7	4	50	45	0.09	
Stornoway ...	30.08	47	SW	2	6	29.63	- .47	52	51	+ 8	SSW	8	7	7	52	43	0.25	
Thurso ...	30.06	47	N	2	6	29.71	- .32	48	47	0	S	3	0	2	55	45	0.12	
Wick ...	30.06	46	NNN	3	0	29.73	- .31	49	48	+ 3	S	3	6	3	54	42	0.05	
Nairn ...	30.14	46	Z	0	6	29.79	- .31	48	46	+ 1	Z	0	c	1	53	43	0.02	
Aberdeen ...	30.15	49	SW	1	6	29.58	- .23	48	47	+ 1	S	4	0	1	55	42	0.02	
Leith ...	30.22	50	WSW	2	0	29.91	- .28	52	50	+ 5	WSW	1	c	*	54	46	-	
Shields ...	30.27	51	N	2	6	30.06	- .18	49	47	+ 1	SW	2	6	2	55	45	-	
Scarborough ...	30.32	48	NNN	2	6	30.13	- .10	43	41	- 5	SW	2	c	2	55	43	-	
York ...	30.35	47	N	1	6	30.14	- .13	43	41	- 3	S	7	6	*	50	41	-	
Nottingham ...	30.39	48	Z	0	0	30.21	- .15	44	42	- 3	SSW	3	6	*	55	38	-	
Ardrossan ...	30.24	52	SW	2	0	29.94	- .30	53	51	+ 1	SSW	4	0	4	54	51	0.02	
Greencastle ...	30.23	50	SW	2	0	29.87	- .40	50	49	+ 2	S	2	0	*	52	47	-	
Donaghadee ...	30.26	48	NNN	2	0	29.98	- .16	50	48	+ 8	SW	3	c	2	52	42	-	
Kingstown ...	30.36	51	S	1	0	30.03	- .37	52	48	+ 3	S	3	c	3	53	47	-	
Holyhead ...	30.35	50	N	1	0	30.04	- .34	52	49	+ 2	SSW	5	om	4	53	49	-	
Liverpool (Bidston) ...	30.37	49	WSW	2	0	30.12	- .22	44	43	- 6	SE	3	6	1	53	43	-	
Valencia ...	30.28	55	S	5	0	29.93	- .50	54	53	+ 3	SSW	6	7	4	56	50	0.20	
Roche's Point... ..	30.32	54	SSW	4	0	29.03	- .41	54	52	+ 4	SSW	5	0	4	57	52	-	
Pembroke ...	30.40	52	ESE	1	0	30.12	- .32	53	49	0	S	4	0	4	55	51	-	
Portishead ...	30.40	50	WSW	2	6	30.20	- .21	48	46	0	SSE	3	0	2	56	43	-	
Scilly ...																		
Plymouth ...	30.44	52	Z	0	0	30.20	- .27	52	49	+ 4	S	3	0	*	56	48	-	
Hurst Castle ...	30.42	50	NN	1	6	30.22	- .19	49	49	0	SSW	2	0	2	56	41	-	
Dover ...	30.43	50	NN	3	6	30.29	- .08	52	48	+ 6	SW	3	6	3	54	42	-	
London ...	30.43	52	Z	0	6	30.26	- .11	45	44	+ 2	S	1	0	*	56	35	-	
Oxford ...	*	*	*	*	*	30.23	- .17	45	43	+ 2	Z	0	of	*	55	41	-	
Cambridge ...	30.39	44	N	1	6	30.27	- .09	40	40	- 3	SW	1	0	*	58	37	-	
Yarmouth ...	30.36	50	N	2	6	30.26	- .01	46	44	+ 1	SW	2	6	2	54	43	-	
The Helder... ..	*	*	*	*	*	30.25	+ .12	51	49	- 1	WSW	1	6	*	*	*	-	
Capo Gris Nez ...	30.44	52	NNN	1	6	30.31	- .08	45	43	- 5	S	2	6	1	63	45	-	
Jersey ...	30.48	52	Z	0	0	30.29	- .20	51	47	- 2	SE	4	6	3	55	48	-	
Brest ...	30.47	59	E	2	0	30.21	- .32	50	45	+ 2	SE	3	0	4	59	46	-	
L'Orient ...	30.47	52	E	3	0	30.22	- .30	46	45	- 2	E	3	6	3	57	39	-	
Rochefort ...	30.41	49	ENE	3	6	30.18	- .22	43	41	- 9	ESE	4	6	3	63	?	-	
Biarritz ...	30.32	63	NNE	3	6	30.12	- .33	45	43	- 9	E	1	6	3	63	43	-	
Corunna ...	*	*	*	*	*				*					*	*	*	*	
Brussels ...	*	*	*	*	*	30.34	+ .02	45	*	- 2	N	3	c	*	*	*	-	
Charleville ...	*	*	*	*	*	30.34	+ .03	36	*	- 11	E	3	f	*	*	*	*	
Paris ...									*					*	*	*	*	
Lyons ...	*	*	*	*	*	30.35	- .08	50	*	- 6	SE	2	6	*	*	*	*	
Toulon ...																		

## YESTERDAY'S 2 P.M. REPORTS AND REMARKS.

	Bar.	Dry.	Wet.	Wind.	Wen.	Sea.		Bar.	Dry.	Wet.	Wind.	Wen.	Sea.		
Skudesnaes ...	29.99	46	44	NW	4	0	2	Valencia .....	30.35	54	50	SSE	5	0	5
Thurso .....	30.07	53	50	NW	3	0	3	Scilly .....							
Scarborough ...	30.31	54	49	NW	2	c	2	London .....	30.43	54	49	NW	2	c	*
Greencastle ...	30.29	50	48	SW	2	0	*	Rochefort ...	30.43	61	54	NE	3	0	3
Holyhead .....	30.40	52	48	N	2	c	1								

The barometer is falling briskly in the S. of Ireland, where the wind has backed to SSE, and is freshening with a rising sea.  
 Warnings issued to our N. coasts.

## EXPLANATION OF COLUMNS.

**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.

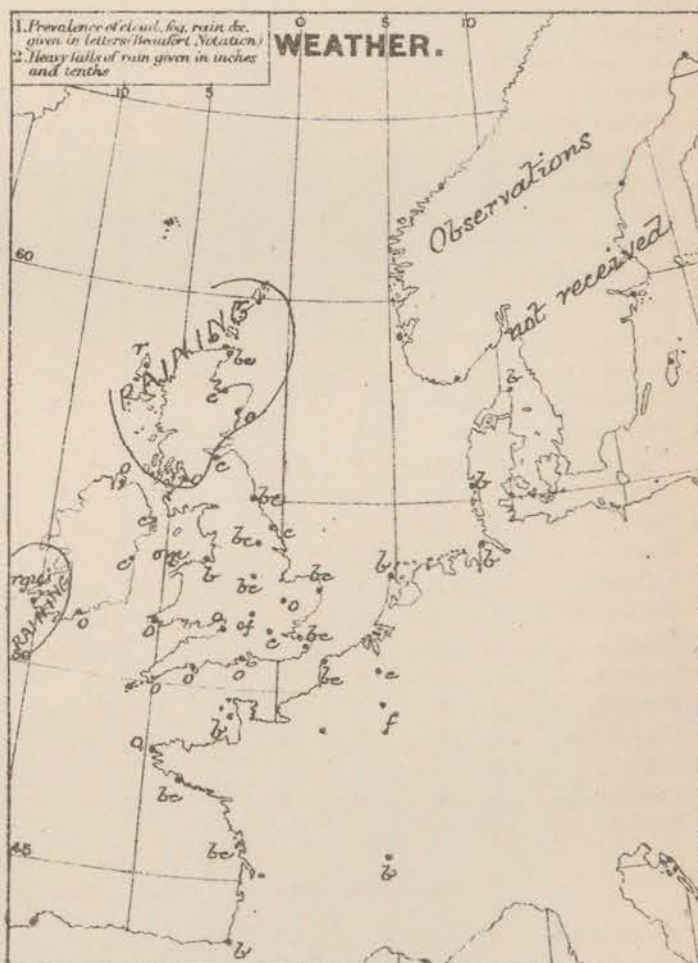
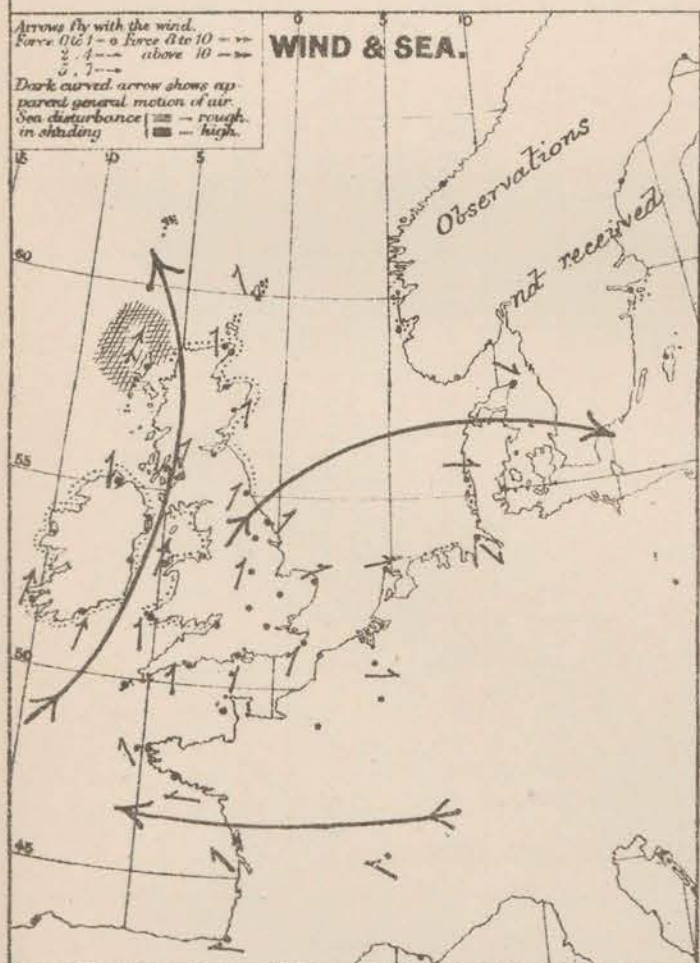
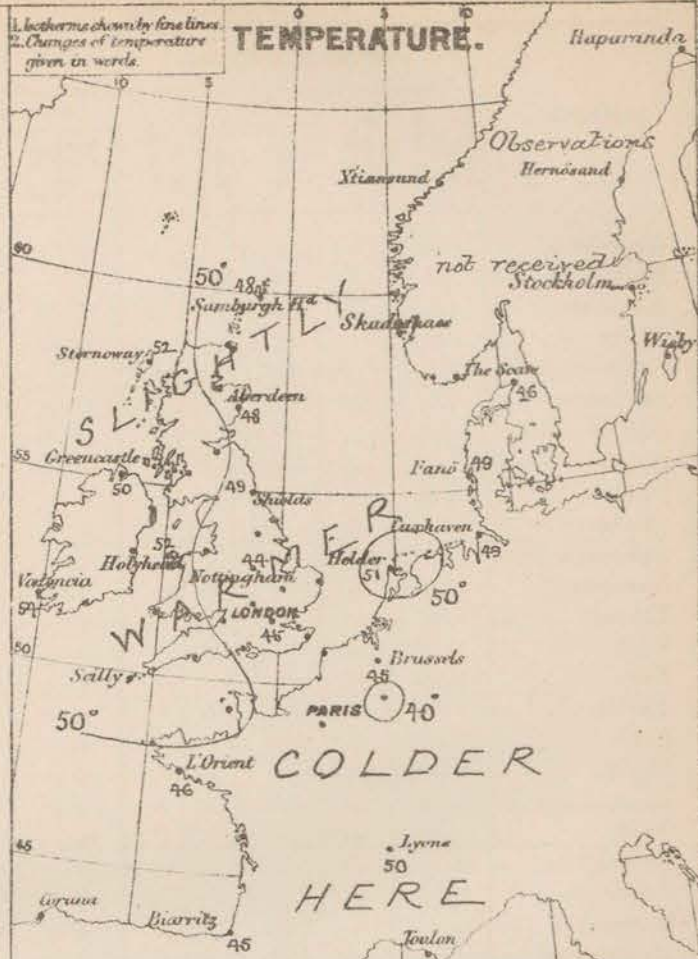
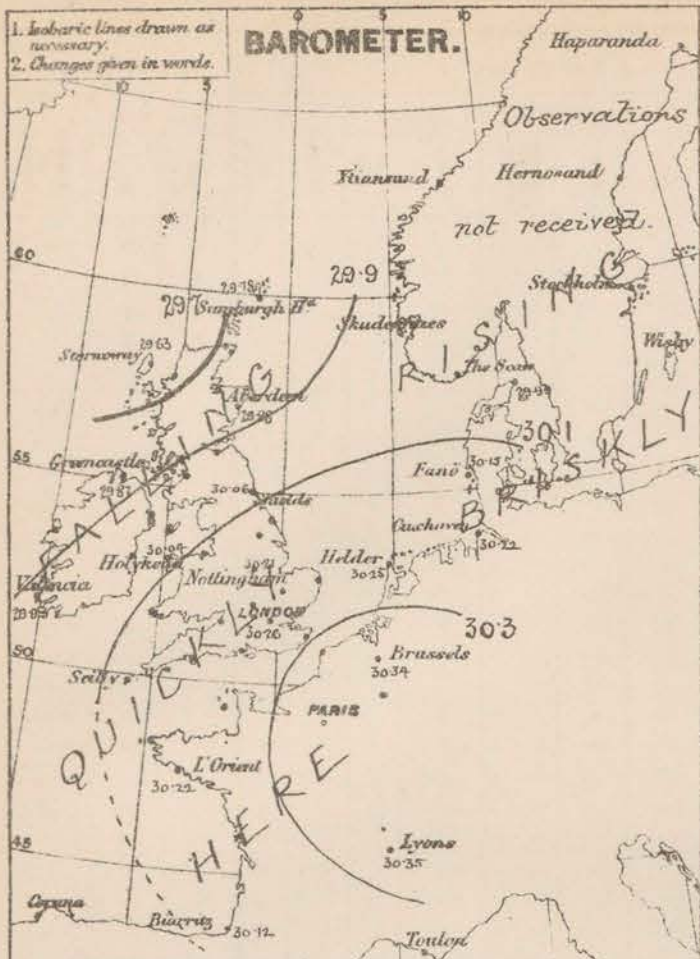
\* AN ASTERISK is inserted in all places for which information is not usually received.

† The evening observations are taken at 6 p.m. in our Islands, at 8 p.m. (Christiania time) in Sweden, Norway, and Denmark, and at 7 p.m. (Paris time) in France.

N.B.—The wind is said to "veer" when its direction changes with the sun, and to "back" when it shifts in the opposite direction.



# WEATHER CHARTS for 8 a.m. on Friday Nov 2<sup>nd</sup> 1877.



**REMARKS.** Weather clear in Denmark, Germany and France, rather cloudy in E. of England, overcast elsewhere. About two tenths of an inch of rain has fallen at the Scotch stations, and at Valencia. Temperature fallen several degrees over France, and N. of England, risen over S. and W. coasts. It is now 43° to 44° in the N. and Central counties of England, 52° in the SW, and 54° in the S. of Ireland. Wind has backed to SSW (from the W) all over the Kingdom. Though still light in the E, it is freshening in the W, and blows strongly at Valencia, and a gale at Stormway. In the Bay of Biscay the wind is moderate from E, and from W in Denmark. Sea, light in the Channel, moderate off our SW coasts, smooth or slight elsewhere.

**Barometrical Indications.** A sudden fall of the mercury in our Islands (especially in the W and NW) accompanied by a brisk N. wind in Germany, and in the E. of the North Sea, has transferred the area of highest pressure from the Bay of Biscay to Germany and the E. of France. A series of depressions has begun to move in a N. and NE. direction, along our W. and NW. coasts, one being off the Shetlands, while a second is approaching the W. of Ireland. Warnings - W coasts yesterday afternoon - Barometer falling briskly, Valencia, and backed to SSW and freshening. North South Coast, Thursday, 3.15. - N. coasts this morning - Barometer falling in W. SW gales Stormway, and increasing from S. at Valencia. North S. coast, 11.10. Friday.

Subscription for these Charts payable in advance to cover delivery. Delivery by hand 4/- per quarter, book post 3/- per quarter.

Meteorological Office. R. H. SCOTT.  
116, Victoria Street, Westminster, S.W.



# DAILY WEATHER REPORT Nov 3<sup>rd</sup> 1877.

STATIONS.	† YESTERDAY EVENING.					8 A.M. TO DAY.										PAST 24 HOURS.		
	Barometer at 3 p.m. 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.		
Haparanda ...	29.61	32	N	2	0	29.67	+ .11	32	32	-	1	Z	0	f	*	*	0.12	
Hernösand ...	29.78	35	Z	0	0	29.64	- .12	31	30	-	4	Z	0	0	*	*	-	
Stockholm ...	29.84	37	SSH	2	0	29.75	- .01	41	40	+	6	S	4	0	*	*	-	
Wisby ...	29.94	41	SH	4	0	29.87	+ .07	42	41	0	SSH	4	0	*	*	*	-	
Christiansund ...	29.90	44	ESE	3	0	29.84	- .46	44	44	0	SSH	6	r	5	46	41	0.16	
Skudesnaes ...	29.72	45	SSH	8	r	29.47	- .53	44	41	-	4	SSH	8	r	4	48	?	0.39
Oxö (Xtiansand) ...	29.89	48	SSH	6	0	29.52	- .50	46	45	+	1	SSH	4	r	3	50	45	-
Skagen (The Scaw) ...	29.90	47	SSH	3	0	29.54	- .45	46	45	0	SSH	5	r	5	50	43	0.04	
Fanö ...	29.96	48	SH	4	0	29.67	- .48	47	46	-	2	SSH	4	r	*	50	46	0.08
Cuxhaven ...	30.17	*	SH	3	0	29.80	- .42	44	44	-	5	SSH	3	0	*	50	41	-
Sumburgh Head ...	29.45	47	NW	5	r	29.47	- .31	46	43	-	2	SSH	4	r	4	51	41	0.44
Stornoway ...	29.57	47	SSH	1	0	29.66	+ .03	39	39	-	13	W	3	0	4	52	35	0.79
Thurso ...	29.5	48	SSH	2	r	29.61	- .10	40	40	-	5	W	4	0	4	54	40	0.17
Wick ...	29.55	46	W	3	0	29.64	- .09	48	46	-	1	SH	2	0	2	53	42	0.05
Nairn ...	29.60	47	W	1	r	29.67	- .12	40	38	-	8	Z	0	0	?	55	39	0.17
Aberdeen ...	29.58	50	SSH	4	0	29.70	- .18	43	39	-	5	W	1	0	1	53	39	0.08
Leith ...	29.64	52	SH	4	r	29.81	- .10	43	41	-	9	W	3	0	*	55	41	0.02
Shields ...	29.80	50	SSH	5	0	29.87	- .19	43	41	-	6	W	5	0	2	52	41	0.12
Scarborough ...	29.86	48	SH	3	0	29.88	- .25	44	41	+	1	SSH	2	0	2	57	43	0.18
York ...	29.89	49	SSH	2	r	29.91	- .23	42	41	-	1	W	1	0	*	53	41	0.10
Nottingham ...	29.92	49	S	5	r	29.99	- .22	43	42	-	1	SH	3	0	*	57	39	0.14
Ardrossan ...	29.67	50	SSH	3	r	29.85	- .09	49	44	-	4	SSH	2	0	0	53	46	0.12
Greencastle ...	29.71	47	W	2	r	29.90	+ .03	43	42	-	7	SSH	2	0	*	52	41	0.12
Donaghadee ...	29.75	47	SSH	3	r	29.96	- .02	?	?	?	?	W	3	0	1	52	?	0.20
Kingstown ...	29.79	53	SSH	4	r	30.04	+ .01	44	41	-	8	SSH	4	0	4	54	43	0.06
Holyhead ...	29.80	52	SSH	6	r	30.02	- .02	47	44	-	5	SSH	4	0	4	54	46	0.61
Liverpool (Bidston) ...	29.84	50	S	3	r	29.97	- .15	47	44	+	3	W	6	0	3	57	44	0.28
Valencia ...	29.97	50	NW	4	0	30.09	- .16	45	43	-	9	W	1	0	3	55	49	0.53
Roche's Point... ..	29.91	50	SSH	4	r	30.11	- .08	45	43	-	9	W	2	0	3	54	43	0.45
Pembroke ...	29.87	54	S	3	0	30.12	0.00	50	45	-	3	W	2	0	3	54	49	0.08
Portishead ...	29.93	50	S	2	0	30.05	- .15	47	45	-	1	W	3	0	3	54	44	-
Seilly ...	29.96	53	S	3	0	30.10	- .10	44	42	-	8	W	2	0	*	56	42	0.07
Plymouth ...	29.96	54	SSE	3	0	30.03	- .19	46	45	-	3	SSH	1	0	1	55	44	0.01
Hurst Castle ...	30.04	52	SH	3	0	29.99	- .30	49	47	-	3	W	3	0	2	54	48	0.06
Dover ...	30.01	52	SSH	1	0	30.03	- .23	45	43	0	W	2	0	*	55	44	0.03	
London ...	*	*	*	*	*	30.04	- .19	42	41	-	3	W	1	0	*	52	41	0.08
Oxford ...	30.06	45	SH	1	0	29.98	- .29	44	43	+	4	W	1	0	*	55	35	0.06
Cambridge ...	30.01	49	SSH	3	0	29.94	- .32	45	44	-	1	SSH	3	0	2	52	44	0.02
Yarmouth ...	*	*	*	*	*	29.80	- .45	51	50	0	W	2	0	*	*	*	-	
The Helder... ..	30.06	48	SSE	2	0	29.99	- .02	52	48	+	7	N	4	0	3	55	45	-
Cape Gris Nez ...	30.04	54	SH	4	0	?	?	5	47	0	N	3	0	3	57	50	0.02	
Jersey ...	30.04	55	S	3	0	30.18	- .103	48	48	-	2	NNE	3	0	3	55	46	-
Brest ...	30.06	54	S	3	0	30.14	- .08	50	50	+	4	N	3	0	3	59	45	-
L'Orient ...	30.08	57	SE	2	0	30.10	- .08	54	54	+	11	SSH	3	0	3	63	39	-
Rochefort ...	30.06	60	SSH	1	0	30.17	+ .05	61	55	+	16	SSH	2	0	3	66	?	-
Biarritz ...	*	*	*	*	*	29.94	- .40	47	*	+	2	W	3	0	*	*	0.01	
Corunna ...	*	*	*	*	*	? 29.97	- .37	43	*	+	7	SE	3	0	*	*	*	
Brussels ...	30.10	49	SE	3	0	30.04	- .29	48	46	+	6	Z	0	0	*	*	-	
Charleville ...	*	*	*	*	*	30.16	- .19	54	*	+	4	W	2	0	*	*	*	
Paris ...	30.20	57	E	5	0	30.16	- .01	54	50	-	1	E	5	0	5	60	54	-
Lyons ...																		
Toulon ...																		

## YESTERDAY'S 2 P.M. REPORTS AND REMARKS.

	Bar.	Dry.	Wet.	Wind.	Wes.	Sea.		Bar.	Dry.	Wet.	Wind.	Wes.	Sea.
Skudesnaes ...	29.85	48	46	SSE	6	0	Valencia ...	29.84	54	53	W	3	4
Thurso ...	29.56	52	51	S	4	4	Seilly ...						
Scarborough ...	29.95	50	47	SH	3	0	London ...	30.12	54	49	SSH	3	0
Greencastle ...	29.70	51	50	SH	3	4	Rochefort ...	30.10	61	55	SSE	3	0
Holyhead ...	29.91	52	50	SSH	6	4							

The barometer has continued to fall on all our coasts, but at Valencia the wind has veered to W. and fallen light. Rain is falling at both the Irish stations and Thurso.

## EXPLANATION OF COLUMNS.

**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.

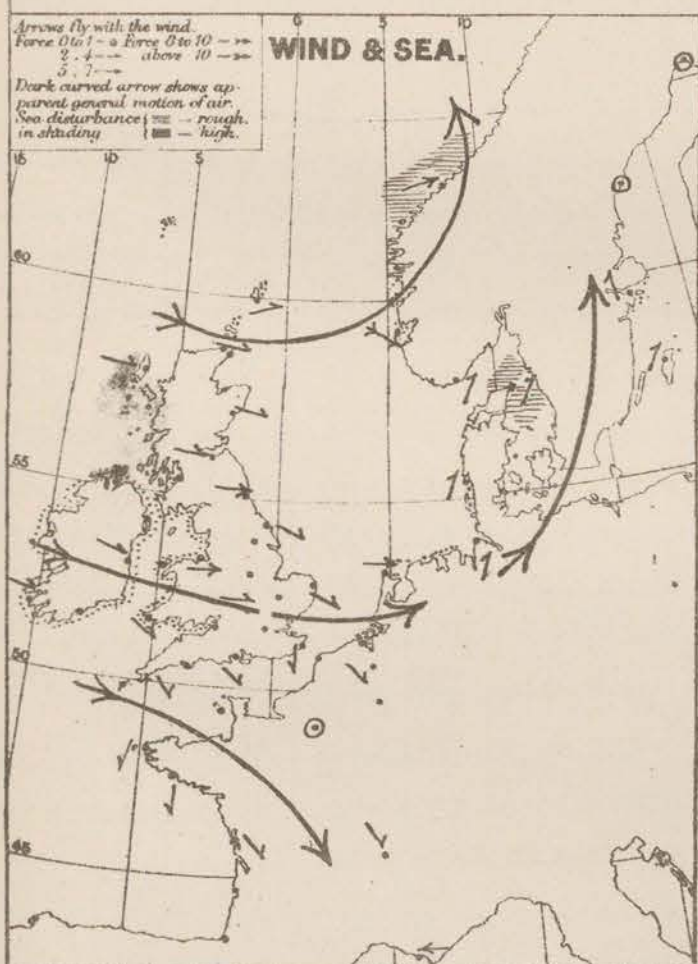
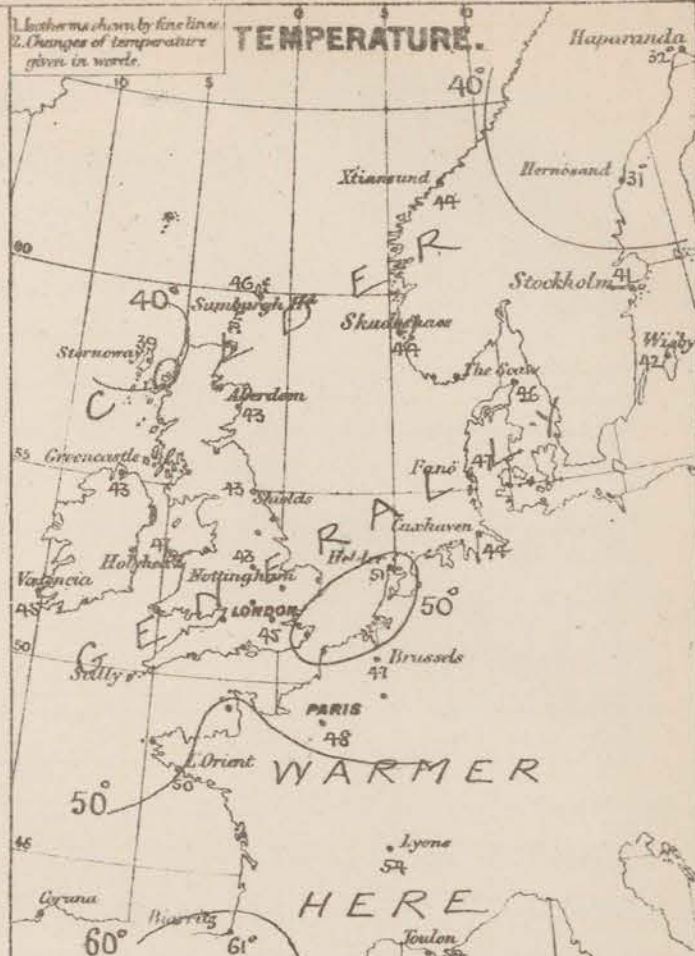
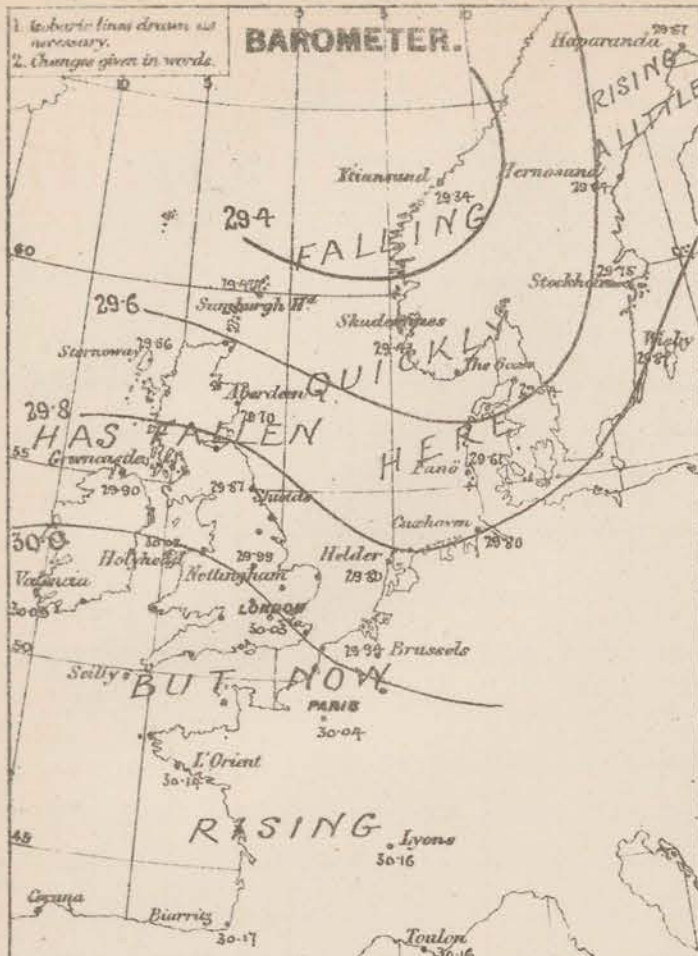
\* AN ASTERISK is inserted in all places for which information is not usually received.

† The evening observations are taken at 8 p.m. in our Islands, at 8 p.m. (Christiania time) in Sweden, Norway, and Denmark, and at 7 p.m. (Paris time) in France.

N.B.—The wind is said to "veer" when its direction changes with the sun, and to "back" when it shifts in the opposite direction.



WEATHER CHARTS for 8 a.m. on Saturday Nov<sup>r</sup> 3<sup>rd</sup> 1877.



Note. A dotted line is drawn round these coasts where the signals are still up.

REMARKS. Weather. Clear and bright in nearly all parts of the British Islands this morning, but overcast in France and N. Germany, very rainy in Denmark, Norway and the Shetlands. Rain fell all over the British Isles yesterday; the heaviest falls being 0.8 in. at Danmoway, 0.6 in. at Holyhead, and 0.5 in. at Valentia. In the S. of England, only a few hundredths were measured. Temperatures has risen in France, fallen elsewhere. It now varies from 59° at Danmoway, and about 43° over Scotland, to 48° at SW. coasts, and 61° at Biarritz. Frost again prevails in Sweden. Wind, generally moderate from the W<sup>nd</sup> in our Islands, but very light from NW off our W. coasts. In Denmark and Sweden it is fresh from the SW, while in France it is very variable. A strong breeze from SW, was felt in St. George's Channel yesterday, followed by a slight NNW gale. Sea, rather rough off the W. of Norway, moderate to smooth elsewhere. Barometrical Indications. The barometer is unsteady over the whole of our Islands. It began to rise on our SW. coasts yesterday afternoon, and this change has since extended to most parts of the Kingdom, but in the SW of Ireland, it appears to be falling again this morning and the wind backing. Windings. The evening signals are still up on our W<sup>nd</sup> and N<sup>nd</sup> coasts; but the latter are ordered to be lowered this morning.

Subscription for these Charts payable in advance to cover delivery. Delivery by hand 10/- per quarter, book post 5/- per quarter.

Meteorological Office,  
116, Victoria Street, Westminster, S. W.

R. H. SCOTT.

Secretary



# SUMMARY OF WEATHER IN WESTERN EUROPE

from OCT<sup>r</sup> 28<sup>th</sup> to NOV<sup>r</sup> 3<sup>rd</sup> 1877.

(Issued Weekly as a Supplement to the "Daily Weather Report.")

The very unsettled conditions of last week have continued uninterruptedly during the present period. One disturbance after another has passed across our area, and the barometer has oscillated considerably according to the positions of the different disturbances. The wind has varied from S. to N. or even N.W. and from a light breeze to a fresh gale, and temperature though generally above the average for the season, has yet varied considerably. The weather has been dull and wet in general, but intervals of clear bright weather have occurred at different times. Rain fell in most places on the first four days and on the 28-29<sup>th</sup> very heavily —

OCT<sup>r</sup> 28<sup>th</sup> Pressure was increasing generally, but diminishing slightly over Denmark; it was high both in the south-west of France (30.30 in.) and over the Gulf of Bothnia (30.20 in.) while an area of low reading lay near the Shetland Isles (29.49 in.) — Wind varied from N. over these Islands and France, through S. over Denmark, into S.E. in Norway; it was moderate in force on our coasts but increased to a strong breeze on the E. shores of the North Sea. Temperature had fallen a few degrees at most of our stations, but risen on the Continent. Weather was moderately clear over the greater part of the E. and S. of the British Isles, but was cloudy or dull elsewhere with rain in many places. In the evening the barometer was falling briskly in the S.W. where the wind had backed to S. or S.E. and freshened to a moderate gale.

OCT<sup>r</sup> 29<sup>th</sup> The depression which was approaching our S.W. coasts on the previous evening lay off the N. coast of Scotland (29.24 in.) <sup>Stormy</sup> The barometer had fallen over half an inch in the N. and to a less extent at all our other stations, as well as in France, but in Scandinavia, Denmark and North Germany it had risen (Haparanda 30.34 in.). Wind was N.W. in the S. of Ireland, but S.W. in nearly all other places, and while blowing strongly generally reached a fresh gale in the Bristol Channel, and the E. and N. of Scotland. Temperature had fallen slightly on the Continent but had risen several degrees over these Islands. Weather was dull generally, and in our Islands very wet. During the previous night heavy falls of rain had occurred, the largest amounts collected being — Roches Point 1.4 in.; Holyhead 1.1 in.; and Valentia 0.9 in. During the day the depression moved away N.E.<sup>wd</sup>, the barometer began to recover in the S.W. and to fall over Norway and Sweden, but the wind was veering very slowly.

OCT<sup>r</sup> 30<sup>th</sup> The barometer had risen slightly over France and the greater part of these Islands during the night but at 8 am was falling briskly in the S.W. while in Scandinavia the decrease noticed on the previous evening still continued. The distribution of pressure was very irregular, a large depression lay to the N.W. of our Islands, a second was advancing on our N.W. coasts, while a third but smaller lay over the North Sea. Wind was N.W. over France, S.W. on most of our coasts, and S.W. on the eastern shores of the North Sea; it was strong to a gale in the S. of Ireland, and S. of Norway moderate elsewhere. Temperature had risen on the Continent, fallen slightly in these Islands. Sky was clear in the East of England but cloudy or dull elsewhere, with rain in the S.W. of France, the S. of Ireland and the Skager Rack. Later in the day the depression advanced from the S.W.<sup>wd</sup> over Scotland and the wind increased to a gale on our N.W. coasts, where the barometer had risen quickly.



OCT 31<sup>st</sup> The depression from Scotland had passed apparently in an ESE<sup>2</sup> direction and its centre lay over the N. of Denmark. The barometer had risen very quickly over these islands and France, but fallen in Sweden. Gradients were steep both E. and W. of the disturbance and the wind which was S<sup>ly</sup> in the Baltic and N<sup>ly</sup> to NW<sup>ly</sup> elsewhere was fresh in force generally. Temperature was a little lower in most places. Weather was moderately fine at our own and the French stations, rainy and foggy in Norway and Sweden. Weather continued fine throughout the day, and the barometer rose generally.

NOV 1<sup>st</sup> The depression noticed on the past two days had travelled from Denmark, E<sup>ward</sup> to the Baltic. The barometer still fell over the Baltic but was rising in all other places, at our own stations the increase equalled half an inch, while at Valentia it was scarcely appreciable. Wind was N<sup>ly</sup> to NNW<sup>ly</sup> on most of our coasts and over the North Sea, but drew into N. and NE. in France, while at Valentia, a light S<sup>ly</sup> breeze had sprung up. A fresh gale was blowing in North Germany and at Helsing, but elsewhere the wind was generally moderate. Temperature was inclined to rise over Scotland and the W. of Ireland, but had fallen a few degrees elsewhere. The weather was fine except in Scandinavia, where rain was falling. During the day pressure gave way in the N. and a moderate to fresh S<sup>ly</sup> breeze was blowing in Ireland at 6 PM.

NOV 2<sup>nd</sup> A rapid increase of pressure had occurred over Denmark and the south of Scandinavia, while over the whole of these islands and France the barometer had fallen. In the W. the decrease amounted to 0.5 in. and a large depression lay off the NW. of Scotland. Wind was NW<sup>ly</sup> in the Baltic and the Sound, but drew from E. over France, through SE. at our SW<sup>ly</sup> stations, into S. and SW. on our <sup>other</sup> coasts. In the W. generally it was fresh, and in the Hebrides reached a gale. Temperature had fallen several degrees over France, and slightly over the N. of England, but elsewhere it had risen. Weather was clear over France, North Germany, Denmark and Sweden, dull elsewhere with rain in the N. and N. Later Report showed that the depression in the N. had moved E<sup>ward</sup> to the neighbourhood of the Shetlands, while a small subsidiary disturbance appeared in the SW.

NOV 3<sup>rd</sup> The large disturbance from the Shetlands had apparently travelled away NE<sup>ward</sup>, while subsidiary depressions were shown, one over the North Sea, and a second over central France. The barometer was recovering somewhat in the W. but was falling elsewhere. Winds varied a good deal in direction; on most of our coasts it was NW<sup>ly</sup>, in Normandy and Brittany N<sup>ly</sup>, and in Denmark and Sweden S<sup>ly</sup>. In nearly all places it was moderate in force. Temperature had risen in France, but fallen elsewhere, several degrees in the W. Weather was fine over these islands, but cloudy on the continent, with rain in Norway and Denmark. Later in the day a fresh fall of the barometer occurred in the W. where the wind backed to S. but it proved to be of slight importance.



# DAILY WEATHER REPORT

Nov. 4<sup>th</sup>

1877.

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.			Reading at 32° F. and Sea Level.	Difference from 8 a.m. yesterday.		Dry.	Wet.	Difference from 8 a.m. yesterday.	Dir.	Force.			Max.	Min.	
Haparanda ...	29.67	33	Z	0	0		29.61	-.06	33	33	+	1	SE	2	p	*	36	30	-
Hernösand ...	29.49	41	S	4	r		29.34	-.15	37	36	+	6	NW	2	c	*	*	*	0.32
Stockholm ...	29.56	44	SSH	4	0		29.58	-.02	42	41	+	1	N	2	c	*	*	*	0.04
Wisby ...	29.65	45	SH	6	r		29.67	-.02	44	41	+	2	NW	8	c	*	*	*	0.08
Christiansund ...	29.43	42	SSH	4	0		29.56	+.12	42	41	-	2	SSH	2	0	5	45	37	0.05
Skudesnaes ...	29.67	48	N	6	0		29.76	+.09	48	46	+	4	SH	4	0	4	48	43	-
Oxö (Xiänsand) ...	29.67	45	SSH	4	0		29.84	+.17	44	42	-	2	SH	4	0	2	46	43	-
Skagen (The Seaw) ...	29.63	46	NW	8	0		29.84	+.21	46	44	0	0	NW	4	0	3	48	41	0.08
Fanö ...	29.93	48	N	4	0		29.97	+.04	47	45	0	0	SSH	2	0	*	50	45	0.04
Cuxhaven ...	29.92	*	NW	2	0		30.07	+.15	42	42	-	2	SH	2	0	*	50	39	0.01
Sumburgh Head ...	29.58	47	NW	4	0		29.50	-.08	48	46	+	2	S	4	0	4	49	44	-
Stornoway ...	29.68	44	SH	2	r		29.23	-.45	50	49	+	11	S	6	r	6	?	38	0.01
Thurso ...	29.69	45	N	2	0		29.44	-.25	49	47	+	6	S	3	0	3	51	41	0.04
Wick ...	29.72	45	SH	3	0		29.46	-.26	50	48	+	2	S	5	0	3	50	40	-
Nairn ...	29.75	45	N	2	0		29.49	-.26	49	47	+	9	Z	0	0	0	49	40	0.01
Aberdeen ...	29.79	46	SH	1	0		29.59	-.20	50	48	+	7	S	6	0	2	51	43	-
Leith ...	29.88	47	SSH	3	0		29.61	-.27	52	50	+	9	SH	4	0	*	54	42	-
Shields ...	29.96	47	N	2	0		29.78	-.18	46	44	+	3	SSH	4	0	1	50	42	-
Scarborough ...	30.01	44	SSH	2	0		29.84	-.17	46	43	+	2	S	3	0	2	50	41	-
York ...	30.03	46	SH	1	0		29.87	-.16	44	42	+	2	S	2	0	4	54	38	-
Nottingham ...	30.09	43	SSE	2	0		29.93	-.16	44	42	+	1	SSH	2	0	*	54	34	-
Ardrossan ...	29.90	50	SSH	4	0		29.58	-.32	53	50	+	4	S	6	0	5	53	48	0.02
Greencastle ...	29.86	48	S	2	0		29.46	-.40	50	49	+	7	S	5	0	*	50	42	0.02
Donaghadee ...	29.94	46	SH	2	0		29.59	-.35	50	49	+	?	SSH	5	0	3	50	38	-
Kingstown ...	30.00	49	S	3	0		29.67	-.33	51	49	+	7	S	4	0	3	51	44	0.01
Holyhead ...	30.02	49	N	3	0		29.73	-.29	51	49	+	4	SSH	7	0	6	52	47	0.03
Liverpool (Bidston) ...	30.04	47	S	2	0		29.80	-.24	46	43	-	1	SE	3	0	2	51	42	-
Valencia ...	29.92	53	SSH	6	r		29.54	-.38	53	50	+	8	SSH	5	0	4	54	49	0.30
Roche's Point ...	29.99	52	SH	5	0		29.62	-.37	52	52	+	7	SH	7	0	5	55	48	0.22
Pembroke ...	30.07	52	SSH	3	0		29.79	-.28	53	49	+	3	S	6	0	5	53	50	-
Portishead ...	30.09	46	SSH	2	0		29.91	-.18	49	46	+	2	SH	1	0	1	54	42	-
Scilly ...	*	*	*	*	*		*	*	*	*	*	*	*	*	*	*	*	*	*
Plymouth ...	30.14	47	Z	0	0		29.90	-.24	51	48	+	7	SSH	3	0	*	54	42	-
Hurst Castle ...	30.11	48	NW	1	0		29.94	-.17	52	49	+	6	SSH	3	0	3	54	43	-
Dover ...	30.14	48	N	3	0		30.02	+.08	49	47	0	0	SSE	3	0	3	52	41	-
London ...	30.14	49	N	2	0		29.99	-.15	57	56	-	8	SE	1	0	*	54	31	-
Oxford ...	*	*	*	*	*		29.95	-.19	43	41	+	1	SSE	1	0	*	52	38	-
Cambridge ...	30.13	41	NW	1	0		29.99	+.01	34	34	-	10	S	1	0	*	55	33	-
Yarmouth ...	30.08	46	N	2	0		30.01	+.03	41	40	-	4	SH	2	0	2	51	39	-
The Helder ...	*	*	*	*	*		30.05	+.03	41	40	-	10	S	?	0	*	*	*	-
Cape Gris Nez ...	30.14	50	NNE	1	0		30.04	+.05	43	43	-	9	SE	2	0	1	55	43	-
Jersey ...	30.19	49	N	2	0		30.01	?	50	49	-	1	S	3	0	3	50	44	-
Brest ...	30.20	57	NE	2	0		29.97	-.23	54	50	+	6	SH	3	0	3	57	45	-
L'Orient ...	30.17	52	NNE	3	0		29.99	-.18	58	48	0	0	N	3	0	3	59	43	-
Rochefort ...	30.11	59	Z	0	0		30.04	-.07	54	54	0	0	S	2	0	3	61	50	-
Biarritz ...	30.12	63	SSE	1	0		30.02	-.10	52	50	-	9	Z	0	0	3	66	48	-
Corunna ...	*	*	*	*	*		30.10	*	60	*	*	*	SH	3	0	2	*	*	*
Brussels ...	*	*	*	*	*		30.10	+.04	59	*	*	*	N	3	0	*	*	*	-
Charleville ...	*	*	*	*	*		30.09	+.01	57	*	*	*	E	3	0	*	*	*	-
Paris ...	30.14	54	ENE	3	0		30.06	+.02	48	48	0	0	SE	3	0	*	*	*	-
Lyons ...	*	*	*	*	*		30.12	+.04	53	*	*	*	NE	2	0	*	*	*	-
Toulon ...	30.13	55	NW	3	0		30.13	+.00	54	50	0	0	E	3	0	3	61	54	-

## YESTERDAY'S 2 P.M. REPORTS AND REMARKS.

	Bar.	Dry.	Wet.	Wind.	Wes.	Sea.		Bar.	Dry.	Wet.	Wind.	Wes.	Sea.		
Skudesnaes ...	29.62	46	44	N NW	6	C	4	Valencia ...	30.01	54	49	SSH	5	Cg	5
Thurso .....	29.68	47	45	N	3	C	4	Scilly .....							
Scarborough ...	29.97	50	45	N	2	δ	2	London .....	30.11	53	46	N	2	C	#
Greencastle ...	29.90	49	46	SH	2	o	#	Rochefort ...	30.11	61	59	SE	2	C	3
Holyhead .....	30.20	50	46	SH	3	δo	3								

The barometer is again falling briskly at Valencia, where the wind has backed to SSH, and is freshening with a gloomy appearance and rising sea.

Warnings. The following has been sent to our N. coast this afternoon. "Barometer has fallen again at Valencia, wind backed to SSH. sea risen. Keep up south coast 3.15 Saturday"

## EXPLANATION OF COLUMNS.

**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.

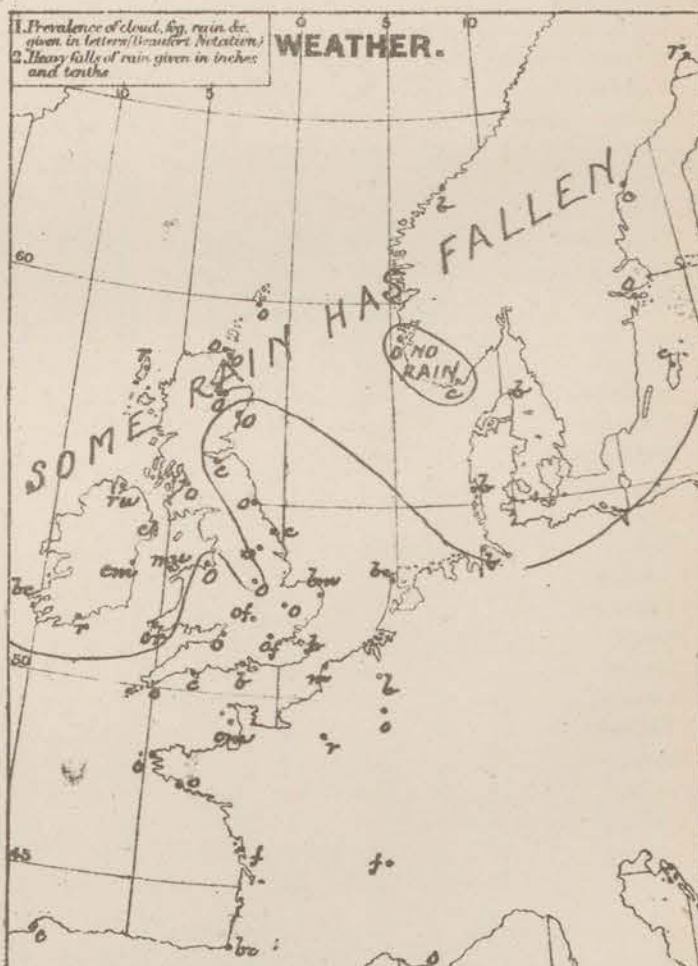
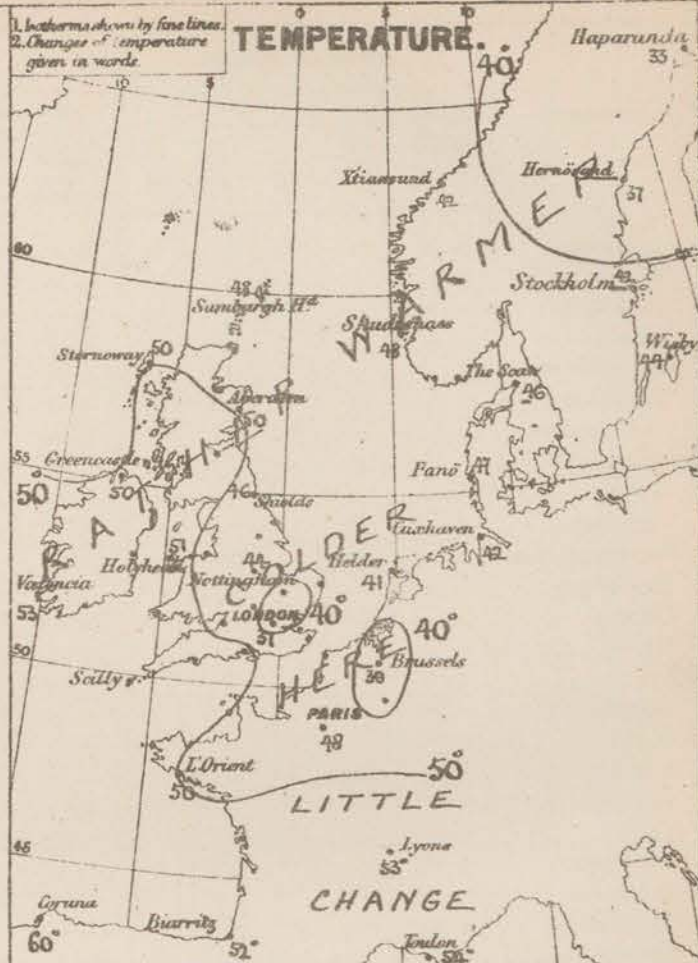
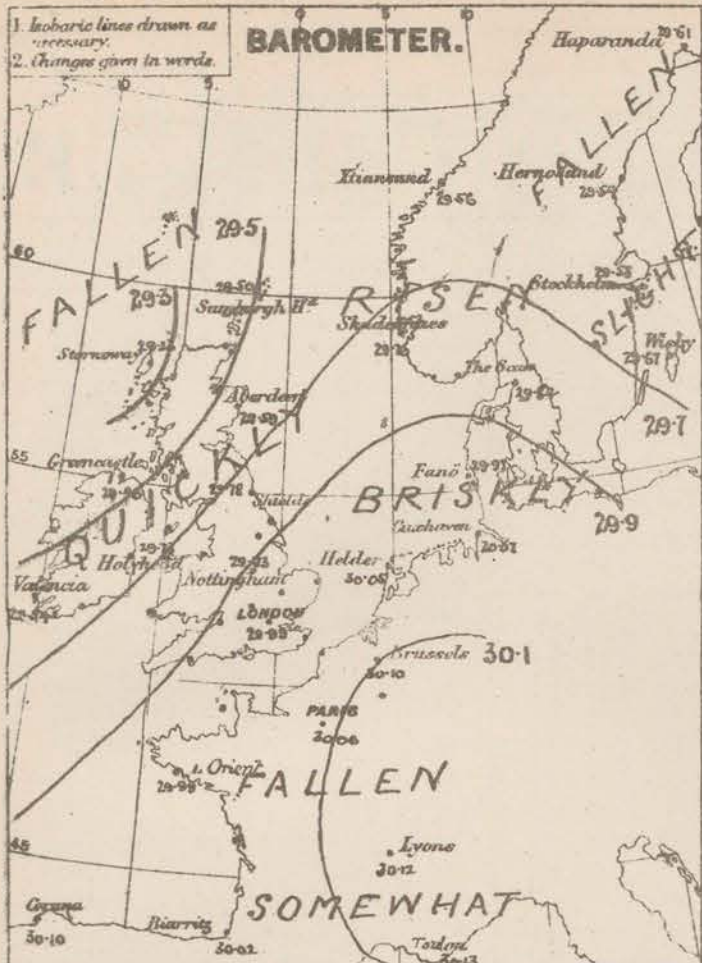
\* AN ASTERISK is inserted in all places for which information is not usually received.

† The evening observations are taken at 6 p.m. in our Islands, at 8 p.m. (Christiania time) in Sweden, Norway, and Denmark, and at 7 p.m. (Paris time) in France.

N.B.—The wind is said to "veer" when its direction changes with the sun, and to "back" when it shifts in the opposite direction.



# WEATHER CHARTS for 8 a.m. on Sunday Nov<sup>r</sup> 4<sup>th</sup> 1877.



**REMARKS.** Weather is fine over Denmark, N. Germany, and the extreme SE of England, but is cloudy or dull elsewhere with rain at some of our W. and N. stations, fog in London and Oxford. Rain fell yesterday in the extreme W. and N. Temperature has risen over Scotland and Ireland, and at west of the English stations, but over the SE of England, in the Netherlands and NE of France it has fallen fast; the thermometer is 16 lower at Cambridge (32°) than it is in the Heligoland, and 14° there in the Netherlands; temperature rising from 48° to 50° over Scotland, from 50° to 55° over Heligoland, and from 54° to 55° over England. Wind is NW and the Baltic, and the Sund, but S in all other places, it is light in the SE, but blows strongly in the W. and NW. Seas are rough in the N. as well as in the Irish Sea, moderate to slight on our other coasts.

**Barometrical indications.**  
Pressure has increased briskly on the E. shores of the North Sea, but decreased in all other places — briskly in the west — the highest readings lie over the E. of France, and gradient and steep in the north.

**Fog.**  
There is the W. have been kept up, the following east to our N. coasts this morning — "Foggy low west, fresh SE winds, moist North Coast. Sunday, 9.40 a.m."

Subscription for these Charts payable in advance to cover delivery. Delivery by hand 1/4 per quarter, each post 1/4 per quarter.

Meteorological Office,  
116, Victoria Street, Westminster, S.W.

R. H. SCOTT.  
Secretary.



# DAILY WEATHER REPORT

Nov 5<sup>th</sup>

1877.

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.			
Haparanda ...	29.60	35	SE	2	0	29.62	+ .01	35	34	+ 2	S	2	0	*	36	30	0.47		
Hernösand ...	29.77	32	WSW	2	0	29.59	+ .05	38	37	+ 1	SSW	2	0	*	*	*	-		
Stockholm ...	29.82	38	SW	2	0	29.76	+ .18	42	40	0	SSW	2	0	*	*	*	-		
Wisby ...	29.87	44	SW	4	0	29.88	+ .21	43	42	- 1	WSW	4	0	*	*	*	-		
Christiansund ...	29.36	48	E	3	0	29.22	- .34	46	45	+ 4	E	1	0	4	48	?	-		
Skudesnaes ...	29.61	48	S	8	7	29.30	- .46	48	48	0	S	8	7	5	48	39	0.34		
Oxö (Ålön) ...	29.76	48	SW	4	0	29.45	- .39	46	46	+ 2	SSE	7	7	4	45	43	-		
Skagen (The Seaw)	29.83	46	SW	3	0	29.60	- .24	46	44	0	SW	6	0	6	50	41	-		
Fanö ...	29.85	44	SSW	5	0	29.59	- .38	48	47	+ 1	SSW	5	0	*	50	41	-		
Cuxhaven ...	29.92	4	SW	3	0	29.75	- .32	46	46	+ 4	SSW	3	0	*	46	37	-		
Samburgh Head	29.29	49	S	5	0	29.16	- .34	46	45	- 2	N	3	0	4	49	43	0.76		
Stornoway	29.21	49	S	2	0	29.29	+ .06	41	40	- 9	WNW	1	0	2	50	38	0.11		
Thurso ...	29.27	48	SSW	1	0	29.24	- .20	43	42	- 6	SW	1	0	2	53	39	0.03		
Wick ...	29.27	50	SSW	2	0	29.26	- .20	49	48	- 1	SW	1	0	0	52	38	-		
Nairn ...	29.29	46	Z	0	0	29.29	- .20	46	43	- 3	Z	0	0	0	55	42	0.11		
Aberdeen ...	29.38	48	S	6	7	29.31	- .28	42	41	- 8	SW	1	0	2	51	42	0.01		
Leith ...	29.36	51	SW	5	0	29.40	- .21	47	46	- 5	WSW	3	0	*	53	46	-		
Shields ...	29.53	49	SSW	7	0	29.49	- .29	48	46	+ 2	N	2	0	2	50	44	0.03		
Scarborough ...	29.60	47	S	4	0	29.55	- .29	47	45	+ 1	WSW	3	0	2	50	46	-		
York ...	29.60	48	S	3	0	29.60	- .27	48	46	+ 4	SW	1	0	2	50	42	0.07		
Nottingham ...	29.64	49	S	4	0	29.69	- .24	45	44	+ 1	SSW	3	0	*	51	43	0.01		
Ardrossan ...	29.80	52	S	3	7	29.45	- .13	51	48	- 2	N	2	0	3	53	49	0.45		
Greencastle ...	29.26	49	SSW	4	7	29.48	+ .02	45	44	- 5	WSW	2	0	*	54	44	0.16		
Donaghadee ...	29.36	47	SSW	4	0	29.55	- .04	44	44	- 6	WSW	4	0	2	52	43	0.02		
Kingstown ...	29.44	51	SSW	4	0	29.63	- .04	49	46	- 2	N	4	0	3	54	48	0.09		
Holyhead ...	29.49	50	SW	6	0	29.64	- .09	50	48	- 1	SW	3	0	3	53	49	0.20		
Liverpool (Bidston)	29.54	49	SSE	3	0	29.63	- .17	49	46	+ 3	WSW	3	0	2	52	45	0.18		
Valencia ...	29.84	52	WSW	4	0	29.70	+ .16	51	50	- 2	WSW	3	0	3	52	46	0.25		
Roche's Point...	29.86	50	N	5	0	29.73	+ .11	49	47	- 3	N	4	0	4	57	44	0.18		
Pembroke ...	29.59	54	SW	6	0	29.71	- .08	53	51	0	WN	4	0	4	55	51	0.06		
Portishead ...	29.71	52	S	5	0	29.73	- .18	51	50	+ 2	WSW	3	0	4	54	46	0.15		
Seilly ...																			
Plymouth ...	29.73	53	SW	3	0	29.80	- .10	51	50	0	N	2	0	*	55	50	-		
Hurst Castle ...	29.73	53	SW	4	0	29.78	- .16	54	53	+ 2	N	4	0	4	55	50	0.08		
Dover ...	29.80	54	SSW	5	0	29.80	- .22	52	50	+ 3	WSW	3	0	2	54	49	0.03		
London ...	29.78	52	S	2	0	29.75	- .24	50	48	+ 13	SW	2	0	*	55	37	0.02		
Oxford ...	*	*	*	*	*	29.74	- .21	48	47	+ 5	SW	1	0	*	53	42	0.01		
Cambridge ...	29.76	50	S	1	0	29.73	- .26	46	45	+ 12	SW	1	0	*	54	34	0.02		
Yarmouth ...	29.78	49	SSW	4	0	29.70	- .31	47	46	+ 6	WSW	3	0	2	57	40	0.02		
The Helder...	*	*	*	*	*	29.69	- .36	51	50	+ 10	SW	3	0	*	*	*	-		
Cape Gris Nez	29.84	50	S	4	0	29.83	- .21	52	52	+ 11	SW	5	0	5	?	43	0.04		
Jersey ...	29.86	54	SSW	5	0	29.90	- .11	53	51	+ 3	WSW	5	0	4	56	?	0.02		
Brest ...	29.89	52	WSW	4	0	29.95	- .02	54	54	0	WNW	3	0	5	55	52	0.04		
L'Orient ...																			
Roche fort ...	30.03	59	S	3	0	30.01	- .03	57	55	+ 3	N	4	0	3	63	50	0.01		
Biarritz ...	30.08	61	Z	0	0	30.06	+ .04	55	52	+ 3	SSW	1	0	3	61	50	-		
Corunna ...	*	*	*	*	*										*	*	*		
Brussels ...	*	*	*	*	*	29.86	- .24	50	*	+ 11	SSW	6	0	*	*	*	0.01		
Charleville ...	*	*	*	*	*	29.89	- .20	51	*	+ 4	S	1	0	*	*	*	*		
Paris ...	29.93	53	S	3	0	29.95	- .11	53	52	+ 5	SSW	3	0	*	*	*	-		
Lyons ...	*	*	*	*	*	30.10	- .02	57	*	+ 4	SE	2	0	*	*	*	*		
Toulon ...																			

## YESTERDAY'S 2 P.M. REPORTS AND REMARKS.

Bar.	Dry.	Wet.	Wind.	Wet.	Sea.	Bar.	Dry.	Wet.	Wind.	Wet.	Sea.
Skudesnaes ...	29.69	48	46	SSE	7	5	Valencia ...				
Thurso ...							Seilly ...				
Scarborough ...							London ...				
Greencastle ...							Roche fort ...	29.99	57	55	SE 3
Holyhead ...											

## EXPLANATION OF COLUMNS.

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

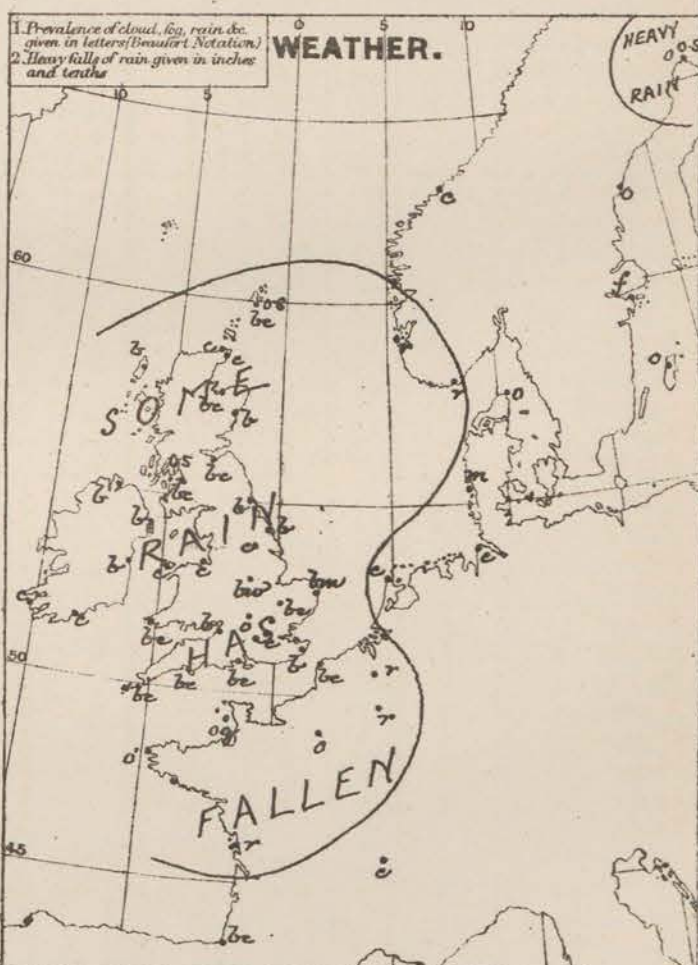
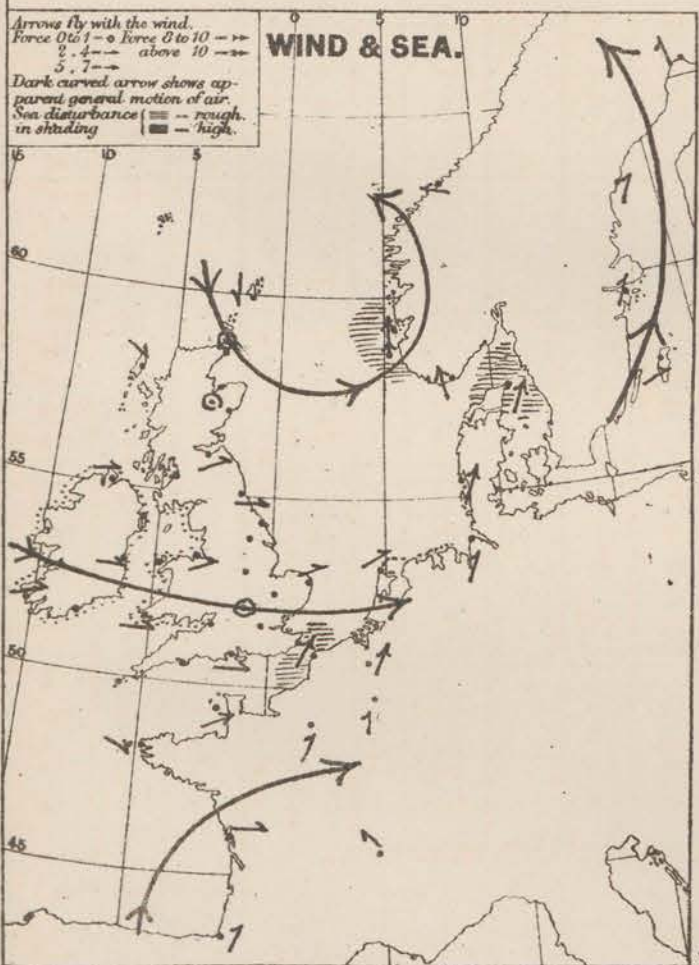
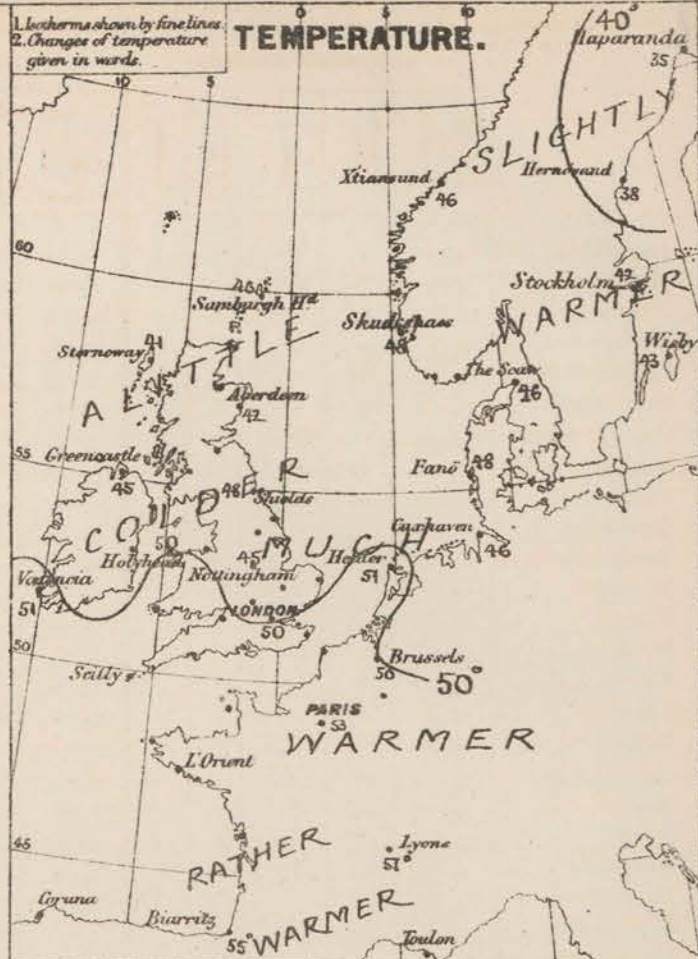
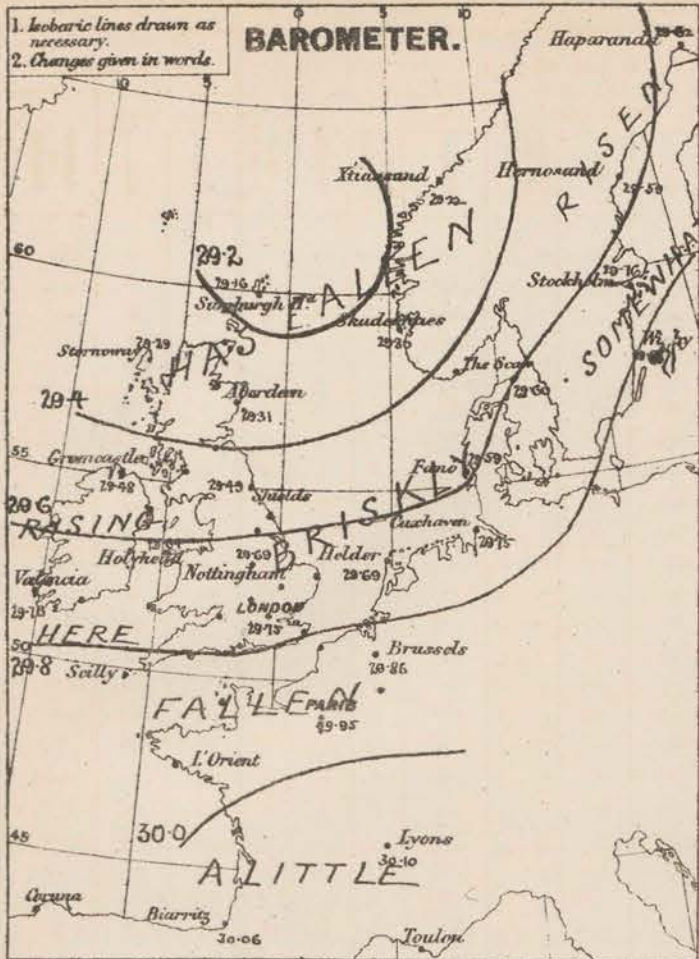
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† The evening observations are taken at 6 p.m. in our Islands, at 8 p.m. (Christiania time) in Sweden, Norway, and Denmark, and at 7 p.m. (Paris time) in France.

N.B.—The wind is said to "veer" when its direction changes with the sun, and to "back" when it shifts in the opposite direction.



WEATHER CHARTS for 8 a.m. on Monday Nov<sup>r</sup> 5<sup>th</sup> 1877.



Note A dotted line is drawn round the coast where the signals are up.

REMARKS. Weather is finer in all parts of our Islands this morning, but on the Continent it is generally dull, with rain in the S. of Norway. Rain fell during yesterday in most parts of the Kingdom, but generally in small amounts. Temperature has risen several degrees over the S.E. of England, and the Netherlands, and to a less extent at most of the French, and our own S. stations, but elsewhere it has fallen; it rises from 41° to 51° over Scotland, from 44° to 51° over Ireland, and from 45° to 53° over England. Winds in W. on our W. coasts, but draws into W. in the E. and into E. on the E. shores of the Irish Sea; it is generally moderate or light in force on our coasts, but increases to a strong breeze in Denmark, and to a fresh or moderate gale in the S. of Norway. At Sumburg H. a light breeze from N. is reported, and at St. Petersburgh from E. Sea is rather rough off the S.W. coast of Norway, but moderate or slight at our ports.

Barometrical Indications. A deep depression which lay off our N.W. coast yesterday, has since advanced N.E. and is now shown between the Shetlands, and the W. coast of Norway. The barometer has begun to recover in the W. but still falls in the E. The highest readings are reported from S.E. of France.

Warnings. The warning signals are lowered in the N. there in the West, remains in force.

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Meteorological Office,  
116, Victoria Street, Westminster, S. W.

**R. H. SCOTT.**

Secretary



# DAILY WEATHER REPORT

Nov<sup>r</sup> 6<sup>th</sup>

1877.

STATIONS.	† YESTERDAY EVENING.						8 A.M. TO DAY.										PAST 24 HOURS.		
	Barometer at 32° F. and Sea Level.	Temp. in shade.	WIND.		Weather.	Barometer. Reading at 32° F. and Sea Level.	SHADE TEMP.			WIND.		Weather.	Sea. (0 to 2.)	SHADE TEMP.		Amount of Rainfall.			
			Dir.	Force. (0 to 12).			Dry.	Wet.	Difference from 8 a.m. yesterday.	Dir.	Force. (0 to 12).			Max.	Min.				
Haparanda ...	29.44	38	S	6	o	29.25	- .37	37	37	+ 2	S	2	o	*	39	34	0.20		
Hernösand ...	29.34	40	SSH	4	o	29.29	- .30	35	34	- 3	SH	2	bc	*	*	*	0.04		
Stockholm ...	29.43	43	SSH	6	r	29.52	- .24	45	43	+ 3	SH	6	bc	*	*	*	0.04		
Wisby ...	29.63	45	SH	8	o	29.67	- .21	46	45	+ 3	SSH	6	c	*	*	*	0.04		
Christiansund ...	29.13	44	SH	4	o	28.97	- .25	45	42	- 1	S	3	c	3	48	41	0.08		
Skudesnaes ...	29.39	48	SSH	6	o	29.16	- .14	50	49	+ 2	SSH	8	f	6	?	?	0.35		
Oxö (Xiänsand) ...	29.45	47	SSH	6	c	29.34	- .11	50	49	+ 4	SSH	7	r	4	?	46	-		
Skagen (The Seaw) ...	29.54	48	SH	5	o	29.50	- .10	49	48	+ 3	SSH	6	r	6	?	43	0.20		
Fanö ...	29.72	50	SSH	4	c	29.63	+ .04	50	50	+ 2	SH	6	o	*	52	46	0.04		
Cuxhaven ...	29.79	4	SSH	4	o	29.82	+ .07	50	50	+ 4	SSH	3	o	*	52	45	-		
Sumburgh Head ...	29.20	48	SSH	3	o	29.01	- .15	48	44	+ 2	H	6	bc	6	50	38	0.16		
Stornoway ...	29.14	45	SSH	6	r	29.13	- .16	41	41	o	SSH	4	bc	5	50	39	0.29		
Thurso ...	29.14	49	S	3	c	29.10	- .14	44	43	+ 1	H	3	c	3	55	43	0.08		
Wick ...	29.18	50	S	3	o	29.14	- .12	44	41	- 5	SH	2	o	0	52	38	0.03		
Nairn ...	29.24	51	Z	o	o	29.19	- .10	46	43	o	Z	o	bc	1	52	43	-		
Aberdeen ...	29.33	50	SH	4	o	29.22	- .09	46	44	+ 4	SH	2	o	1	54	42	-		
Leith ...	29.41	52	H	4	c	29.31	- .09	49	47	+ 2	H	4	o	*	54	46	0.11		
Shields ...	29.57	51	H	5	c	29.41	- .08	53	51	+ 5	H	1	om	2	56	48	0.02		
Scarborough ...	29.64	50	SSH	3	bc	29.49	- .06	53	52	+ 6	SSH	3	o	2	54	47	0.05		
York ...	29.66	52	SH	2	o	29.52	- .08	54	53	+ 6	SH	2	o	*	57	46	0.06		
Nottingham ...	29.73	52	SSH	4	o	29.58	- .11	55	54	+ 10	SSH	3	r	*	58	45	0.27		
Ardrossan ...	29.42	53	SSH	5	r	29.36	- .09	52	49	+ 1	SH	4	c	4	54	51	0.35		
Greencastle ...	29.39	52	H	3	o	29.33	- .15	46	45	+ 1	H	2	o	*	53	44	0.33		
Donaghadee ...	29.49	50	SSH	3	o	29.43	- .12	47	47	+ 3	H	3	o	2	52	43	0.21		
Kingstown ...	29.59	55	S	4	o	29.50	- .13	53	49	+ 4	S	4	bc	3	57	48	0.04		
Holyhead ...	29.64	54	SH	6	r	29.54	- .10	54	54	+ 4	SH	3	m	2	56	49	0.58		
Liverpool (Bidston) ...	29.57	52	SH	2	o	29.53	- .10	55	54	+ 6	SSH	2	o	2	56	49	0.12		
Valencia ...	29.62	56	H	4	r	29.52	- .15	51	50	o	SSE	3	bc	3	57	49	0.73		
Roche's Point... ..	29.68	52	SH	5	r	29.54	- .19	54	53	+ 5	SSH	3	rf	4	57	49	0.22		
Pembroke ...	29.75	55	SH	5	o	29.61	- .10	55	55	+ 2	SH	3	o	4	56	53	0.19		
Portishead ...	29.79	55	SSH	3	c	29.64	- .09	58	56	+ 7	SSH	4	o	4	58	48	0.20		
Scilly ...	29.87	54	SH	3	bc	29.72	- .08	56	56	+ 5	SH	3	odm	*	59	50	0.07		
Plymouth ...	29.82	55	SSH	4	o	29.71	- .07	56	56	+ 2	SSH	5	r	5	57	53	0.06		
Hurst Castle ...	29.89	52	SSH	3	o	29.80	.00	54	53	+ 2	SSH	6	ow	5	55	52	-		
Dover ...	29.85	53	SH	2	o	29.72	- .03	54	53	+ 4	SSH	4	r	*	58	49	0.04		
London ...	29.85	53	SH	2	o	29.72	- .03	54	53	+ 4	SSH	4	r	*	58	49	0.04		
Oxford ...	*	*	*	*	*	29.71	- .03	55	54	+ 7	SH	4	r	*	58	48	0.08		
Cambridge ...	29.80	47	SH	1	o	29.68	- .05	53	52	+ 7	S	2	r	*	57	45	0.10		
Yar mouth ...	29.79	51	SSH	2	bc	29.69	- .01	52	51	+ 5	SSH	4	od	3	55	46	0.07		
The Helder... ..	*	*	*	*	*	29.76	+ .07	51	50	o	SSH	3	o	*	*	*	-		
Cape Gris Nez ...	29.89	54	SSH	5	o	29.84	+ .01	54	52	o	SSH	7	o	6	57	52	0.08		
Jersey ...	29.97	54	SSH	3	o	29.87	- .03	55	55	+ 2	SH	6	r mw	6	56	51	0.03		
Brest ...	30.00	57	SSH	3	o	29.92	- .03	57	58	+ 3	SSH	4	m	5	57	54	0.04		
L'Orient ...	30.00	54	H	3	bc	30.01	+ .03	55	55	+ 1	SSH	4	r	5	59	50	0.04		
Roche fort ...	30.09	59	SSH	3	c	30.09	+ .08	54	54	- 3	S	3	f	3	61	54	0.04		
Bi rritz ...	30.12	63	SSH	2	o	30.13	+ .07	50	48	- 5	ESE	3	o	4	?	46	-		
Corunna ...	*	*	*	*	*										*	*	*		
Brussels ...	*	*	*	*	*	29.95	+ .09	48	*	- 2	SH	?	9	o	*	*	*		
Charleville ...	*	*	*	*	*	29.96	+ .07	47	*	- 4	H	3	f	*	*	*	*		
Paris ...	30.01	57	H	2	o	30.06	+ .11	46	46	- 7	S	3	o	*	*	*	0.04		
Lyons ...	*	*	*	*	*	30.21	+ .11	52	*	- 5	NE	2	f	*	*	*	*		
Toulou ...	30.08	55	SH	1	o	30.19	+ .09	54	50	o	E	3	c	2	59	52	-		
YESTERDAY'S 2 P.M. REPORTS AND REMARKS.																			
	Bar.	Dry.	Wet.	Wind.	Wes.	Sea.		Bar.	Dry.	Wet.	Wind.	Wes.	Sea.						
Skudesnaes ...	29.34	48	44	SH	6	o	5	Valencia ...	29.64	55	54	SH	6	omd	5				
Thurso .....	29.31	51	48	SH	2	bc	2	Scilly .....											
Scarborough ...	29.63	53	48	SSH	4	o	3	London .....	29.82	56	52	SSH	3	o	2				
Greencastle ...	29.44	49	48	SH	3	o	*	Roche fort ...	30.05	61	55	SSH	2	bc	3				
Holyhead .....	29.69	53	51	SH	5	bc	4												

Pressure has begun to decrease again in the N. though still rising elsewhere. Wind is strong from S.W. at Valentia with mist and drizzling rain.

## EXPLANATION OF COLUMNS.

**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.

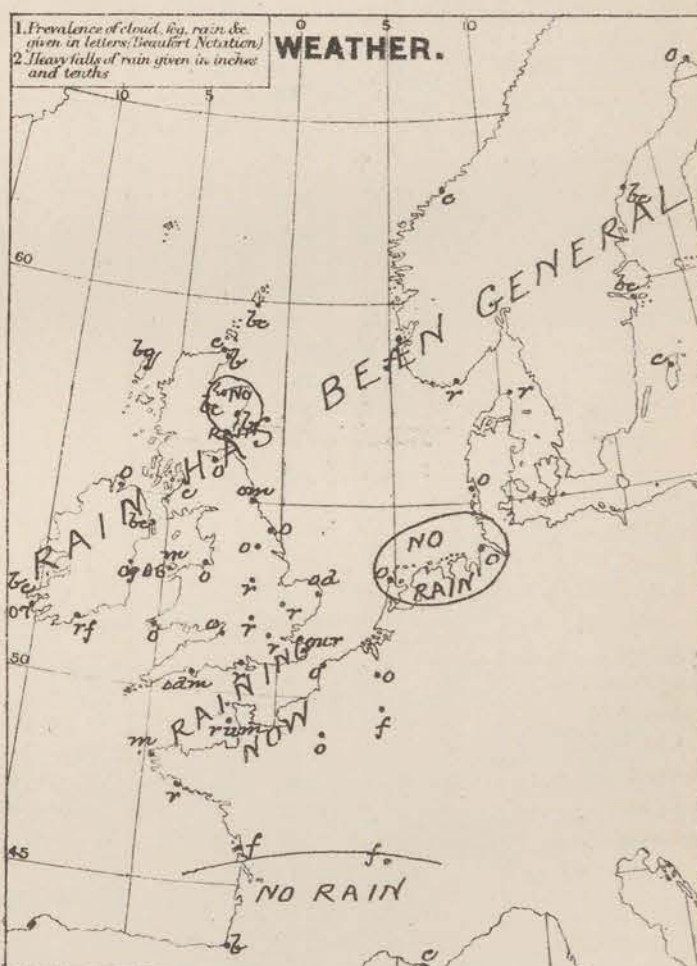
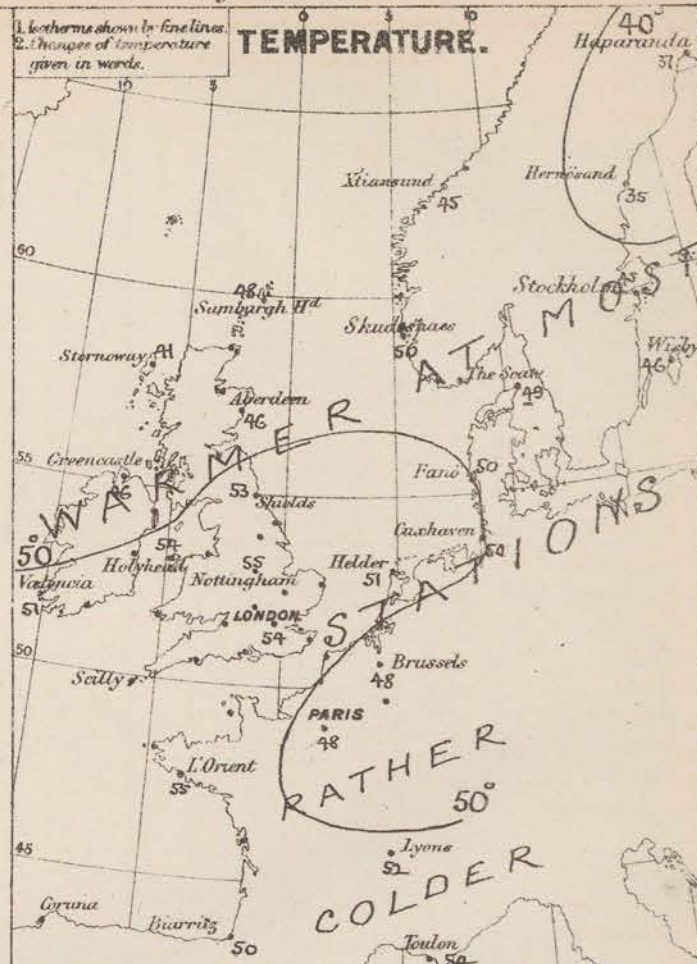
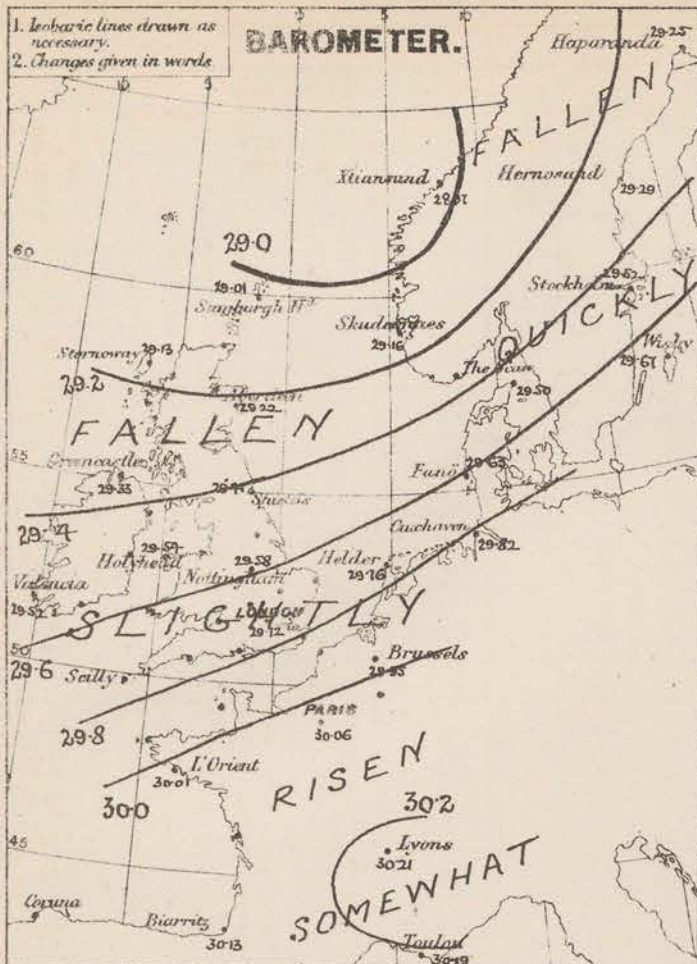
\* AN ASTERISK is inserted in all places for which information is not usually received.

† The evening observations are taken at 6 p.m. in our Islands, at 8 p.m. (Christiania time) in Sweden, Norway, and Denmark, and at 7 p.m. (Paris time) in France.

N.B.—The wind is said to "veer" when its direction changes with the sun, and to "back" when it shifts in the opposite direction.



# WEATHER CHARTS for 8 a.m. on Tuesday Nov. 6<sup>th</sup> 1877.



**REMARKS.** Weather is locally fine in the NE. of Scotland, as well as at Riarney, but is dull and unsettled elsewhere with rain over S. England, the NW. of France, and the Skagerrack, fog and mist in several places. Rain has fallen during the past 24 hours in most parts of the country, the amounts at Holyhead and Valentia exceeding half an inch. Temperature has fallen somewhat over France, but has risen at nearly all our own stations, and the thermometer is now very uniform at a little above 50° over France, England, and the S. of Ireland. In Scotland it varies from 41° in the Hebrides, to 52° at Ardsand. Wind is W. at our own N. stations, but is S. over the Channel, England, and on the E. shore of the North Sea. In the Channel, the Netherlands, Denmark and the S. of Norway it blows strongly, or with the force of a moderate gale; elsewhere it is moderate. Sea is rough in the north, and in the Channel, moderate to slight on our other coasts.

**Barometrical Indications.** Barometer has fallen slightly generally, but in the S. of France it has risen somewhat. A large depression lies to the N. of Scotland, while the highest reading is reported from Lyons.

Subscription for these Charts payable in advance to cover delivery. Delivery by hand 1/6 per quarter, book post 3/ per quarter.

Meteorological Office,  
116, Victoria Street, Westminster, S.W.

R. H. SCOTT,  
Secretary.



# DAILY WEATHER REPORT

Nov<sup>r</sup> 7<sup>th</sup> 1877.

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.		
Haparanda ...	29.06	36	Z	0	+	28.98	-.27	34	34	- 3	W	4	0	*	37	34	0.35	
Hernösand ...	29.04	42	WSEW	2	0	29.26	-.03	36	35	+ 1	W	2	0	*	*	*	0.04	
Stockholm ...	29.28	48	SW	7	0	29.45	-.07	38	36	- 7	SW	4	+	*	*	*	0.04	
Wisby ...	29.58	49	SW	8	0	29.59	-.08	47	46	+ 1	SW	6	+	*	*	*	0.08	
Christiansund ...	28.95	45	SW	8	+	29.13	+ .16	44	42	- 1	SW	4	0	0	?	41	0.28	
Skudesnaes ...	29.33	48	SW	4	0	29.16	.00	50	49	0	S	8	0	6	50	48	0.08	
Oxö (Xtiansand) ...	29.39	49	SW	6	0	29.32	-.02	48	48	- 2	?	4	+	3	50	45	-	
Skagen (The Scaw) ...	29.48	48	SW	6	0	29.38	-.12	52	51	+ 3	W	5	+	4	?	45	0.47	
Fanö ...	29.57	50	SSW	4	W	29.56	-.07	53	53	+ 3	SW	6	0	*	?	50	0.16	
Cuxhaven ...	29.76	*	SSW	5	+	29.73	-.09	55	55	+ 5	SW	5	0	*	?	46	0.13	
Sumburgh Head ...	29.15	47	WSEW	5	+	28.99	-.02	41	41	- 7	NW	6	+	5	50	40	0.83	
Stornoway ...	29.15	42	S	1	0	29.21	+ .08	39	38	- 2	NW	1	0	4	47	38	0.29	
Thurso ...	29.19	40	SSW	2	0	29.16	+ .06	41	40	- 3	NW	2	0	3	53	39	0.78	
Wick ...	29.32	45	S	2	0	29.18	+ .04	42	41	- 2	WSEW	2	0	0	52	40	0.77	
Nairn ...	29.22	45	Z	0	0	29.25	+ .06	41	39	- 5	W	1	0	1	50	40	0.43	
Aberdeen ...	29.27	49	SW	2	0	29.26	+ .04	42	40	- 4	SSW	1	0	1	53	42	0.05	
Leith ...	29.26	51	SW	3	0	29.43	+ .02	46	45	- 3	SW	4	0	*	54	45	0.04	
Shields ...	29.39	53	SW	2	0	29.43	+ .02	48	45	- 5	WSEW	1	0	2	58	46	0.12	
Scarborough ...	29.41	56	SW	3	0	29.50	+ .01	48	46	- 5	WSEW	2	0	2	57	48	0.06	
York ...	29.43	56	SSW	2	W	29.53	+ .01	48	46	- 6	SW	1	0	2	58	47	0.08	
Nottingham ...	29.50	58	SSW	4	0	29.59	+ .01	50	49	- 5	SSW	2	0	*	59	48	0.07	
Ardrossan ...	29.26	52	S	3	+	29.36	.00	50	47	- 2	SW	3	0	0	54	49	0.13	
Greencastle ...	29.23	50	S	2	+	29.33	.00	44	43	- 2	SW	2	0	*	52	39	0.28	
Donaghadee ...	29.28	51	SW	2	0	29.40	-.03	43	43	- 4	WSEW	2	0	1	52	42	0.02	
Kingstown ...	29.32	54	S	3	0	29.47	-.03	49	45	- 4	SW	3	0	2	57	48	-	
Holyhead ...	29.37	54	SSW	2	+	29.50	-.04	49	47	- 5	SW	3	0	0	56	48	0.36	
Liverpool (Bidston) ...	29.39	54	SSW	2	+	29.51	-.02	49	42	- 6	SSW	2	0	1	57	49	0.32	
Valencia ...	29.36	51	WSEW	4	0	29.46	-.06	48	45	- 3	W	4	0	3	57	47	0.27	
Roche's Point ...	29.36	52	SSW	5	W	29.50	-.04	48	47	- 6	W	3	0	3	55	45	0.25	
Pembroke ...	29.42	55	SSW	4	0	29.54	-.07	53	50	- 2	W	4	0	4	56	51	0.33	
Portishead ...	29.37	55	SSW	5	0	29.60	-.04	51	50	- 7	SW	4	0	3	59	49	0.28	
Scilly ...	29.37	55	SSW	5	0	29.60	-.04	51	50	- 7	SW	4	0	3	59	49	0.28	
Plymouth ...	29.64	56	SW	6	0	29.63	-.09	52	52	- 4	SW	2	0	*	58	51	0.26	
Hurst Castle ...	29.65	56	SW	5	W	29.61	-.10	55	55	- 1	WSEW	3	0	3	57	52	0.41	
Dover ...	29.74	55	WSEW	5	0	29.70	-.10	56	55	+ 2	SW	5	0	5	57	54	0.30	
London ...	29.66	59	SSW	4	0	29.63	-.09	57	55	+ 3	SSW	3	0	*	59	54	0.13	
Oxford ...	*	*	*	*	*	29.60	-.11	57	50	- 4	S	1	+	*	58	51	0.20	
Cambridge ...	29.59	57	SW	3	0	29.62	-.06	52	52	- 1	WSEW	1	0	*	60	52	0.17	
Yar mouth ...	29.62	57	SW	4	0	29.60	-.09	56	55	+ 4	SW	4	0	3	57	51	0.07	
The Helder ...	*	*	*	*	*	29.67	-.09	54	53	+ 3	SSW	3	0	*	*	*	0.12	
Cape Gris Nez ...	29.76	55	SSW	6	0	29.75	-.09	54	54	0	SSW	6	+	5	57	50	0.10	
Jersey ...	29.73	57	SW	6	0	29.71	-.16	57	56	+ 2	SW	5	0	5	58	50	0.10	
Brest ...	29.76	57	?	5	0	29.75	-.17	54	52	- 3	W	3	0	5	57	52	0.20	
L'Orient ...	29.99	55	WSEW	5	W	29.76	-.25	57	57	+ 2	SW	5	+	5	59	54	0.08	
Roche fort ...	30.03	59	SSW	4	0	29.88	-.21	55	54	+ 1	S	5	+	3	63	50	0.04	
Birritz ...	30.02	63	ENE	2	0	29.91	-.22	64	55	+ 14	S	4	0	3	66	48	-	
Corunna ...	*	*	*	*	*	29.82	-.13	54	*	+ 6	SSW	6	0	*	*	*	0.10	
Brussels ...	*	*	*	*	*	29.89	-.07	57	*	+ 4	SSW	1	0	*	*	*	*	
Charleville ...	*	*	*	*	*	29.88	-.18	53	51	+ 7	S	3	0	*	*	*	*	
Paris ...	29.97	54	S	4	0	30.07	-.14	59	*	+ 7	SW	2	0	*	*	*	*	
Lyons ...	*	*	*	*	*	30.19	.00	52	52	0	E	4	0	3	61	52	-	
Toulon ...	30.19	55	E	2	0	30.19	.00	52	52	0	E	4	0	3	61	52	-	

## YESTERDAY'S 2 P.M. REPORTS AND REMARKS.

	Bar.	Dry.	Wet.	Wind.	Wca.	Sea.		Bar.	Dry.	Wet.	Wind.	Wca.	Sea.		
Skudesnaes ...	29.26	49	48	SW	4	0	5	Valencia .....	29.35	55	52	S	5	rm	6
Thurso .....	29.19	51	47	WSW	3	0	3	Scilly .....							
Scarborough ...	29.49	56	55	SSW	2	0	2	London .....	29.68	59	57	SSW	4	0	*
Greencastle ...	29.28	51	50	SW	1	0	*	Roche fort ...	30.06	59	57	SSW	5	c	3
Holyhead .....	29.48	53	52	SSW	3	md	3								

Weather is dull with rain in the West and South. A moderate southerly gale is blowing at Valencia, where pressure is decreasing briskly. —  
 Warning. Following sent to our N. and S.W. coasts. "Barometer falling very fast Valencia, hoist South cone, Tuesday, 1.30.

## EXPLANATION OF COLUMNS.

**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 our Islands, at 8 p.m. (Christiania time) in Sweden, Norway, and Denmark, and at 7 p.m. (Paris time) in France.

N.B.—The wind is said to "veer" when its direction changes with the sun, and to "back" when it shifts in the opposite direction.



# WEATHER CHARTS for 8 a.m. on Wednesday Nov<sup>r</sup> 7<sup>th</sup> 1877.

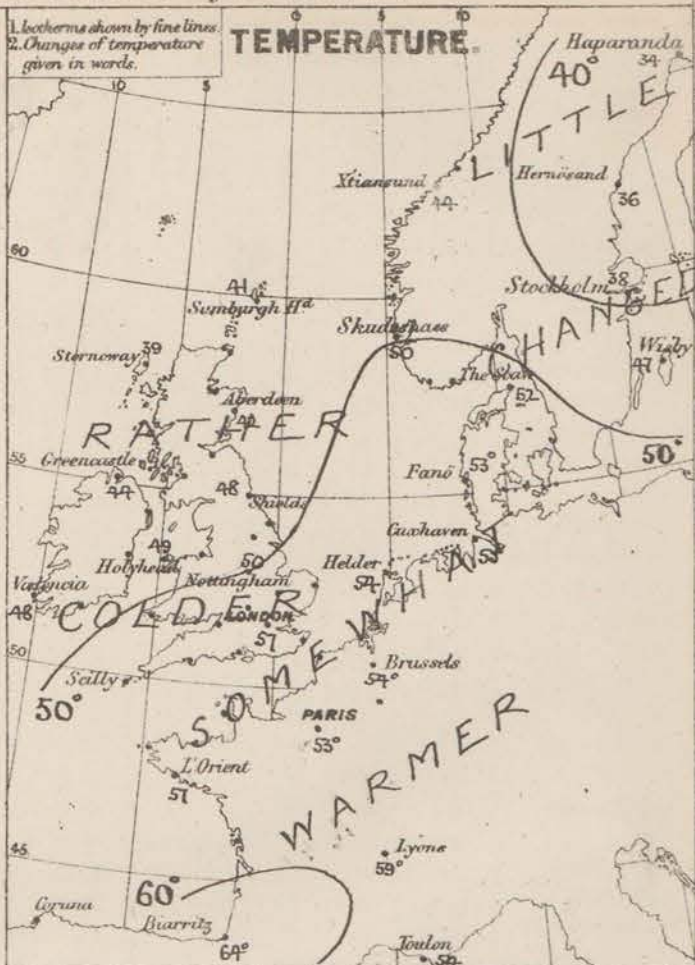
1. Isobaric lines drawn as necessary.
2. Changes given in words.

## BAROMETER.



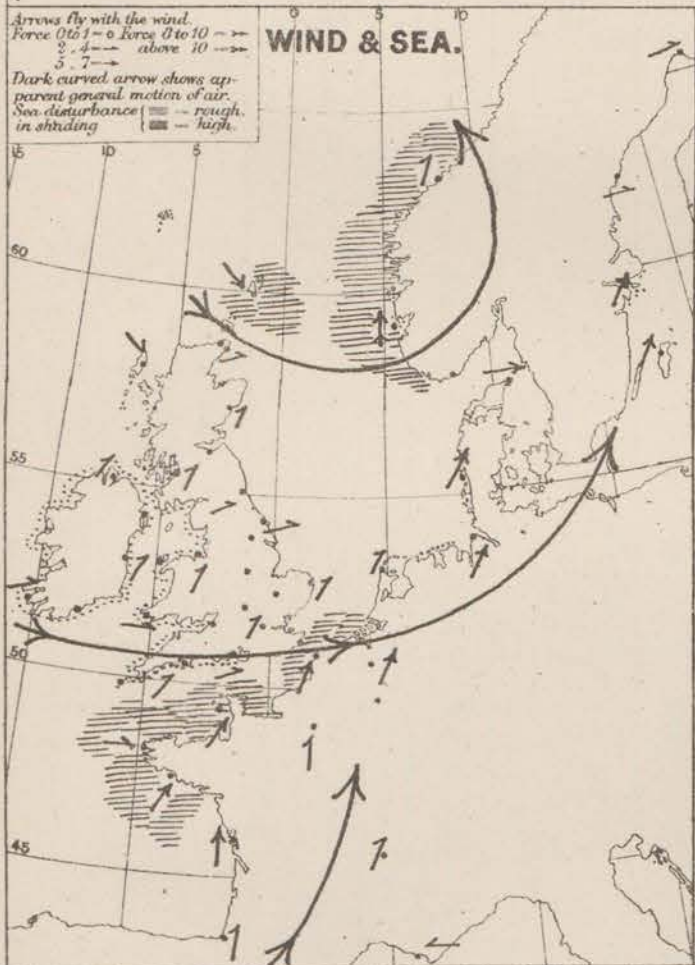
1. Isotherms shown by fine lines.
2. Changes of temperature given in words.

## TEMPERATURE.



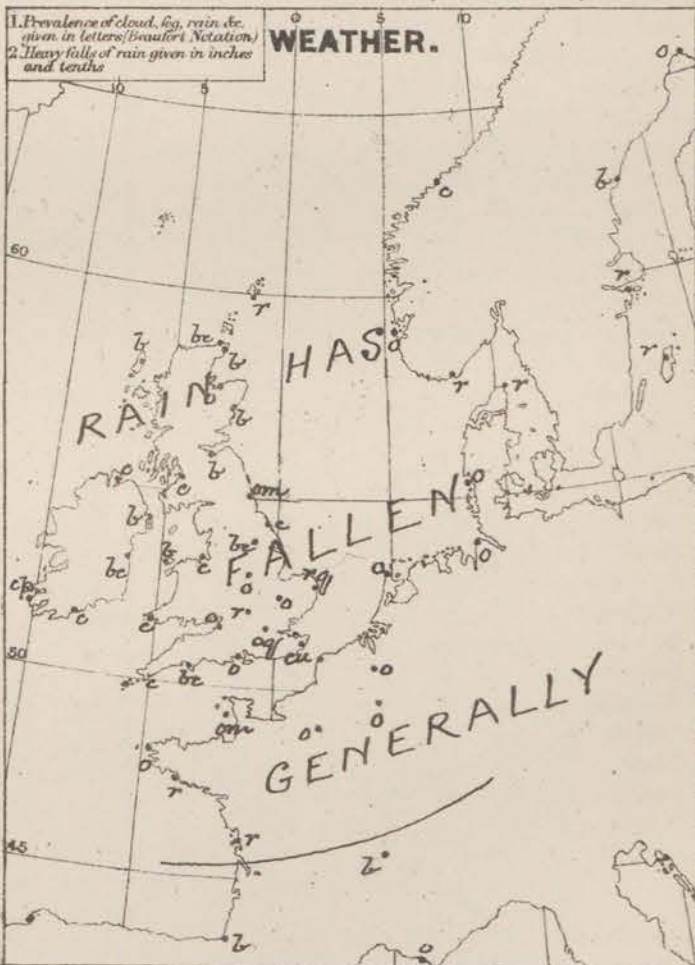
1. Force 0 to 10.
  2. Force 10 to 20.
  3. Force 20 to 30.
  4. Force 30 to 40.
  5. Force 40 to 50.
  6. Force 50 to 60.
  7. Force 60 to 70.
  8. Force 70 to 80.
  9. Force 80 to 90.
  10. Force 90 to 100.
- Dark curved arrow shows apparent general motion of air. Sea disturbance: rough in shading, high in solid.

## WIND & SEA.



1. Prevalence of cloud, fog, rain etc. given in letters (Baird's Notation).
2. Heavy falls of rain given in inches and tenths.

## WEATHER.



Note: A dotted line is drawn across the coast where the signals are up.

**REMARKS.** Weather is clear over the S. of France, and moderately so over the greater part of these Islands, but at our SE stations, as the Netherlands, N. Germany, Denmark and Scandinavia, the sky is overcast with rain in many places, at Valenciennes passing showers are reported this morning and at Shields and Jersey mist. Rain fell yesterday over the whole of W. Europe, the largest amounts (about 0.8 in.) being reported from the extreme N. of Scotland. Temperature has risen over France and N. Germany, but fallen a few degrees at nearly all our own stations; it varies from 39° to 50° over Scotland, from 43° to 49° over Ireland, and from 48° to 56° over England, and reaches 64° at Biarritz. Wind is NW at Sumburgh H. and Thurso, but varies between W and S elsewhere, it is strong in the Channel, Denmark and the W. of Norway, but moderate at all other coasts. Sea is rough in the Channel, slight generally. Barometrical indications. Low centres of low pressure are shown, one near the Shetlands, the other in Lapland, while the highest reading is reported from Lyons. The barometer has risen slightly during the night over the greater part of these Islands, but has fallen elsewhere - most in the SW. of France. Warnings. The following was sent to our W. & SW. coasts yesterday. "Barometer falling very fast Valenciennes, West South Coast. Tuesday, and thence."

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Meteorological Office, 116, Victoria Street, Westminster, S.W. R. H. SCOTT, Secretary.



# DAILY WEATHER REPORT

Nov<sup>r</sup> 8<sup>th</sup> 1877.

STATIONS.	† YESTERDAY EVENING.					8 A.M. TO DAY.										PART 24 HOURS.		
	Barometer at 32° F. and Sea Level.	Temp. in shade.	WIND.		Weather.	BAROMETER.		SHADE TEMP.			WIND.		Weather.	Sea (0 to 9.)	SHADE TEMP.		Amount of Rainfall.	
			Dir.	Force (0 to 12).		Reading at 32° F. and Sea Level.	Difference from 8 a.m. yesterday.	Dry.	Wet.	Difference from 8 a.m. yesterday.	Dir.	Force (0 to 12).			Max.	Min.		
Haparanda ...	29.20	36	Z	0	o	29.35	+ .40	30	29	- .4	N	2	o	*	34	28	-	
Hernösand ...	29.22	45	W	2	bc	29.57	+ .31	38	36	+ 2	W	2	bc	*	*	*	-	
Stockholm ...	29.46	52	S	4	o	29.72	+ .27	43	41	+ 3	SW	2	bc	*	*	*	0.08	
Wisby ...	29.65	50	SW	6	o	29.77	+ .18	48	47	+ 1	SW	4	o	*	*	*	0.12	
Christiansund ...	29.21	42	SW	6	r	29.55	+ .42	41	39	- 3	SW	3	r	4	45	39	0.75	
Skudesnaes ...	29.57	46	SW	2	o	29.67	+ .57	48	47	- 2	SSE	6	o	4	50	45	-	
Oxö (Xtiansand) ...	29.57	48	SW	6	o	29.73	+ .41	41	41	- 7	W	3	c	2	50	39	-	
Skagen (The Seaw) ...	29.63	48	WSW	4	o	29.75	+ .37	46	45	- 6	Z	o	o	0	54	41	-	
Fanö ...	29.71	50	SW	1	r	29.76	+ .20	50	50	- 3	NE	1	c	*	52	48	0.16	
Cuxhaven ...	29.77	55	SW	3	r	29.81	+ .08	55	55	o	SSW	3	r	*	?	52	0.17	
Sumburgh Head ...	29.37	43	NNE	1	c	29.50	+ .51	43	42	+ 2	SW	1	bc	4	47	39	0.47	
Stornoway ...	29.35	40	NW	1	bc	29.48	+ .27	36	35	- 3	WNW	1	bc	4	46	33	0.02	
Thurso ...	29.39	40	Z	0	c	29.50	+ .34	40	39	- 1	S	1	o	2	52	37	0.03	
Wick ...	29.42	44	S	1	c	29.51	+ .33	42	41	o	S	1	r	0	50	40	0.01	
Nairn ...	29.42	44	W	1	bc	29.53	+ .28	40	39	- 1	Z	o	o	0	49	39	0.07	
Aberdeen ...	29.46	47	SW	1	bc	29.55	+ .29	43	41	+ 1	SSW	1	bc	1	51	41	-	
Leith ...	29.48	50	WSW	2	bc	29.60	+ .17	44	43	- 2	SW	2	bc	*	53	43	-	
Shields ...	29.57	50	Z	0	bc	29.68	+ .25	41	40	- 7	SW	2	bc	1	54	39	-	
Scarborough ...	29.61	49	SW	2	bc	29.73	+ .23	42	41	- 6	WSW	1	bc	2	53	42	-	
York ...	29.60	50	SW	1	bc	29.74	+ .21	39	38	- 9	SSE	1	bc	2	54	37	-	
Nottingham ...	29.66	49	SW	1	m	29.79	+ .20	35	35	- 15	Z	o	g	*	55	34	0.01	
Ardrossan ...	29.47	52	SSW	3	bc	29.59	+ .23	48	45	- 2	WSW	3	bc	3	54	48	0.10	
Greencastle ...	29.42	47	S	2	bc	29.59	+ .26	41	40	- 3	W	2	c	*	51	39	-	
Donaghadee ...	29.52	50	WSW	1	bc	29.66	+ .26	58	58	- 5	WSW	3	bc	1	57	38	-	
Kingstown ...	29.54	49	S	3	bc	29.69	+ .22	47	44	- 2	SSW	2	bc	1	53	45	-	
Holyhead ...	29.57	50	SW	3	bc	29.71	+ .21	47	45	- 2	WSW	2	bc	2	54	46	0.02	
Liverpool (Bidston) ...	29.60	49	S	2	bc	29.72	+ .21	43	42	- 6	S	1	bc	1	53	43	-	
Valencia ...	29.52	50	SSW	4	op	29.70	+ .24	46	45	- 2	SSE	3	c	4	54	42	0.11	
Roche's Point...	29.59	50	WSW	4	c	29.72	+ .22	44	42	- 4	NW	1	bc	3	54	40	0.12	
Pembroke ...	29.62	53	SW	3	bc	29.75	+ .21	52	48	- 1	SW	2	bc	3	55	50	-	
Portishead ...	29.68	50	SW	3	r	29.79	+ .19	47	45	- 4	SW	3	bc	2	56	44	0.11	
Scilly ...	29.69	52	SW	1	bc	29.82	+ .19	43	43	- 9	NE	1	o	*	56	42	0.04	
Plymouth ...	29.68	55	WSW	2	c	29.83	+ .22	55	54	o	S	1	bc	1	56	45	0.02	
Hurst Castle ...	29.72	54	W	3	c	29.85	+ .15	51	50	- 5	WSW	2	cg	1	56	50	0.34	
Dover ...	29.71	55	WSW	1	bc	29.84	+ .21	45	45	- 12	SW	1	c	*	58	44	0.13	
London ...	*	*	*	*	*	29.82	+ .22	44	43	- 7	Z	o	bc	*	55	42	0.01	
Oxford ...	29.70	47	SW	5	c	29.81	+ .19	41	41	- 11	SW	1	c	*	57	40	0.09	
Cambridge ...	29.68	57	S	1	c	29.88	+ .21	47	47	- 9	WSW	1	f	2	56	46	0.08	
Yar mouth ...	*	*	*	*	*	29.79	+ .12	53	53	- 1	SSW	1	f	*	*	*	0.08	
The Helder ...	29.74	55	WSW	5	r	29.86	+ .24	54	54	o	WSW	1	o	0	55	52	0.39	
Cape Gris Nez ...	29.77	58	WSW	3	o	29.90	+ .19	52	50	- 5	WSW	4	bc	3	60	57	0.27	
Jersey ...	29.81	57	WSW	13	o	29.91	+ .17	54	52	o	W	4	bc	5	3	52	-	
Brest ...	29.83	54	W	3	o	29.97	+ .21	50	48	- 7	W	3	bc	3	57	46	0.1	
L'Orient ...	29.85	59	S	3	r	29.98	+ .10	54	54	- 1	WSW	3	o	3	61	48	0.47	
Roche fort ...	29.88	64	SSW	3	r	30.03	+ .12	54	52	- 10	SW	3	o	3	72	58	0.59	
Bi. rritz ...	*	*	*	*	*	29.85	+ .03	54	*	o	SSW	6	r	*	*	*	0.14	
Corunna ...	*	*	*	*	*	29.85	+ .04	52	*	+ 1	S	3	r	*	*	*	*	
Brussels ...	29.87	54	S	3	o	29.92	+ .04	53	53	o	SW	1	r	*	*	*	0.02	
Charleville ...	*	*	*	*	*	30.02	- .05	60	*	+ 1	S	6	p	*	*	*	*	
Paris ...	30.15	55	S	3	r	30.19	- .09	55	54	+ 1	E	5	f	5	55	54	0.43	
Lyons ...																		
Toulon ...																		

## YESTERDAY'S 2 P.M. REPORTS AND REMARKS.

	Bar.	Dry.	Wet.	Wind.	Wea.	Sea.		Bar.	Dry.	Wet.	Wind.	Wea.	Sea.		
Skudesnaes ...	29.42	48	46	WSW	6	o	5	Valencia .....	29.47	50	49	SW	5	bc	5
Thurso .....	29.32	47	45	WSW	1	c	2	Scilly .....							
Scarborough ...	29.55	52	49	SSW	2	c	2	London .....	29.57	56	53	WSW	2	o	*
Greencastle ...	29.36	50	46	SW	2	bc	*	Roche fort	29.88	57	57	S	3	r	3
Holyhead .....	29.53	53	49	SW	4	bc	3								

Pressure has increased generally since the morning but has been steady at Valencia since noon, where also the wind has backed and freshened. Weather is fair except in the SE.

### EXPLANATION OF COLUMNS.

**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.

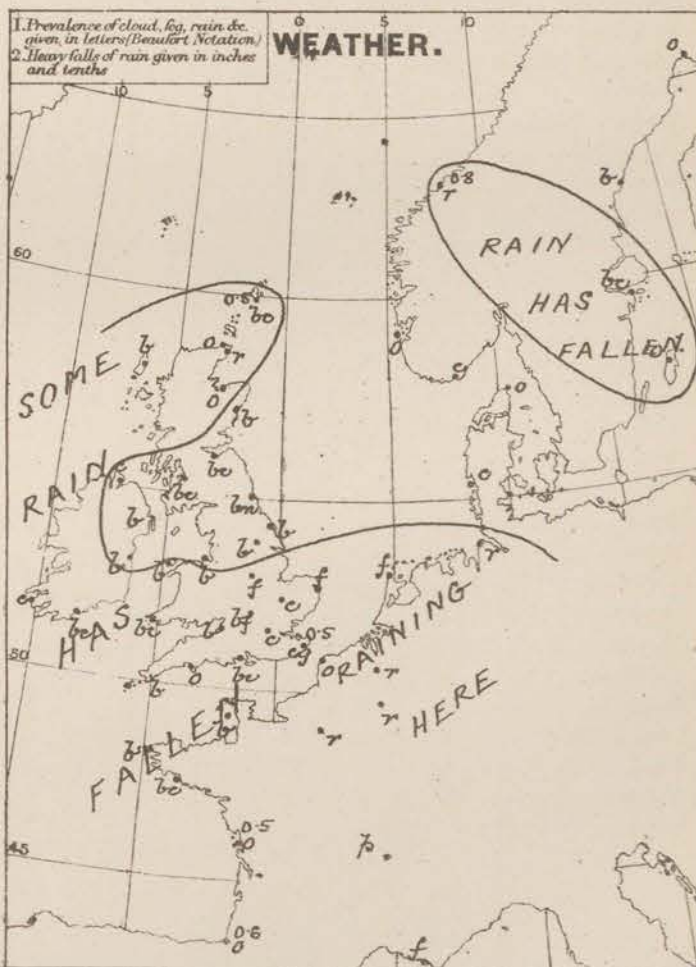
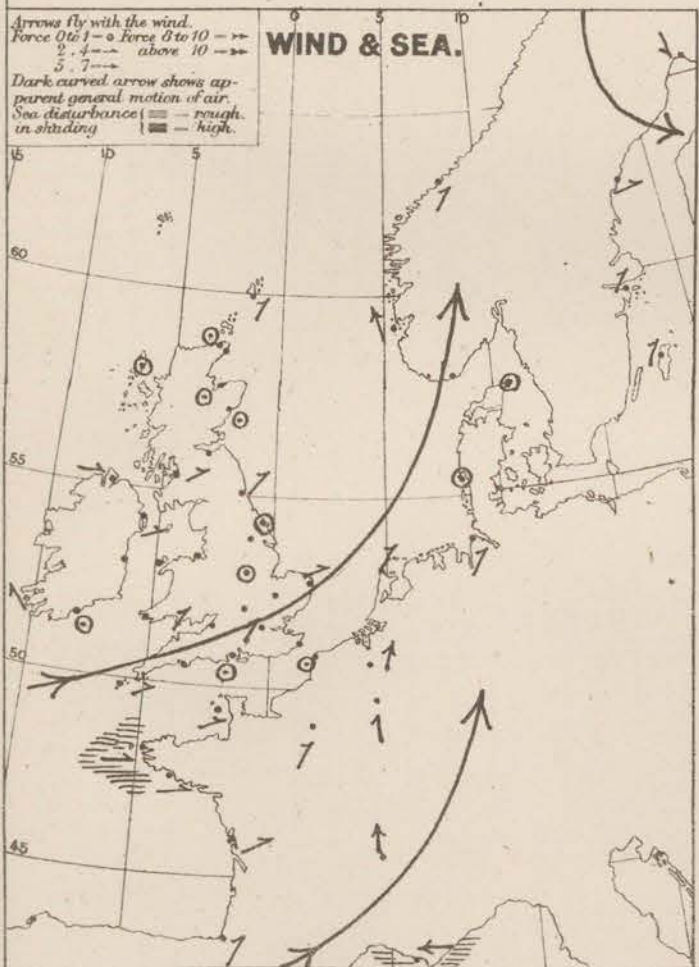
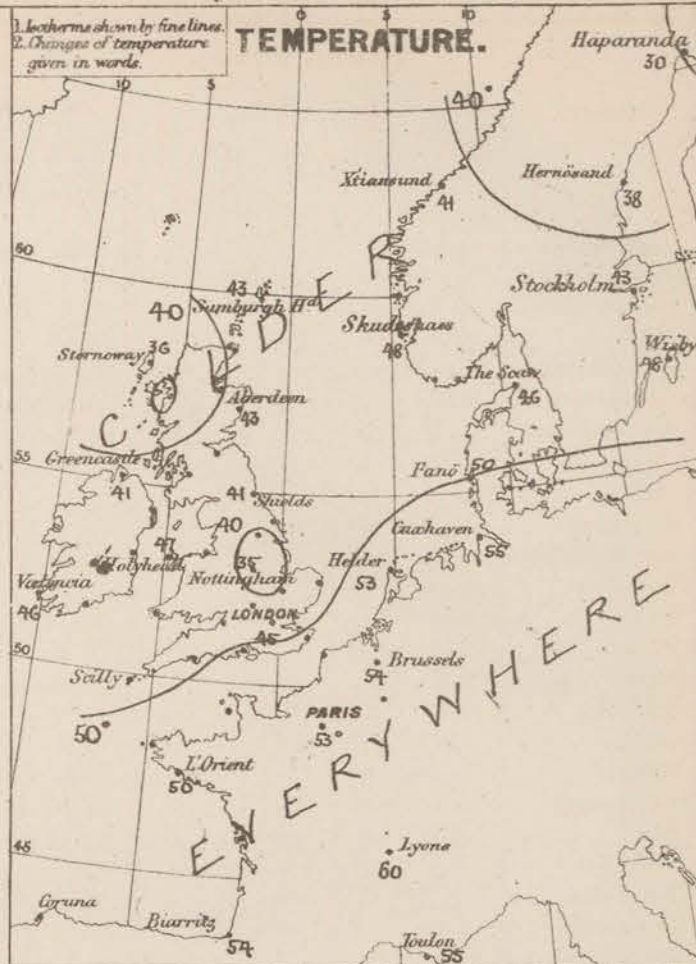
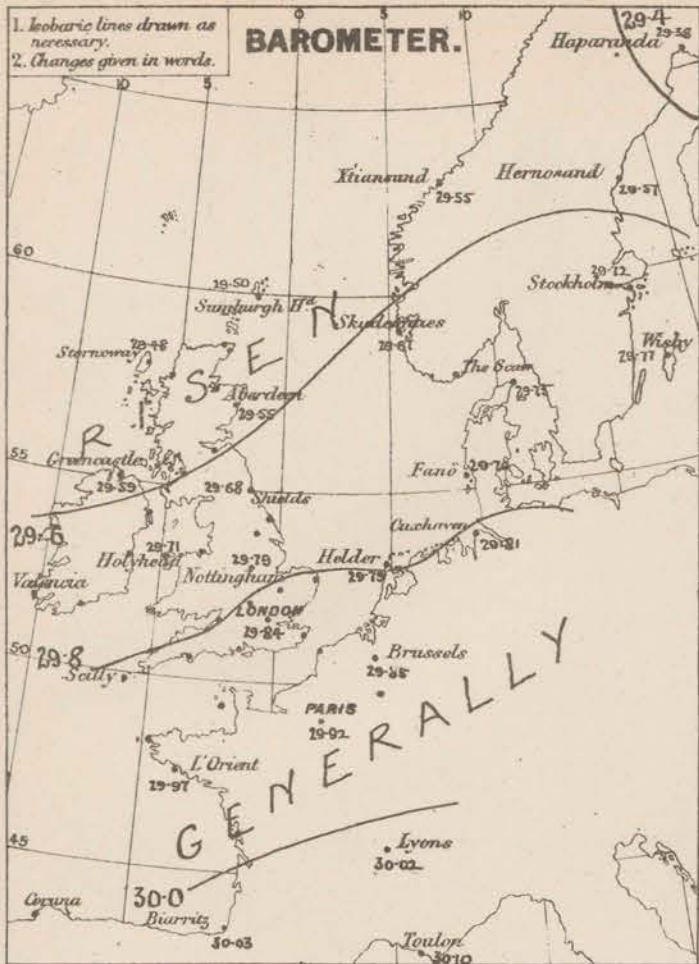
The evening observations are taken at 6 p.m. in our Islands, at 8 p.m. (Christiania time) in Sweden, Norway, and Denmark, and at 7 p.m. (Paris time) in France.

N.B.—The wind is said to "veer" when its direction changes with the sun, and to "back" when it shifts in the opposite direction.



## WEATHER CHARTS

for 8 a.m. on Thursday Nov. <sup>R.</sup> 8<sup>th</sup> 1877.



REMARKS. Weather is moderately clear over the greater part of these Islands, as well as in the NW. of France, but at most of the Continental stations, in the SE. of England, and NE. of Scotland, the sky is dull or overcast. Rain is falling at Wick, Kilmurdo and in the Netherlands, and fog prevails at our central stations. Rain occurred yesterday on all except the NW and NE. coasts, and hail fell at Audressaw. Temperature is lower generally than it was yesterday - the decrease exceeding 10° over Central England, it varied from 36° to 48° over Scotland, from 38° to 47° over Ireland, and from 31° (at Nottingham) to 55° over England. Wind is light or moderate on all coasts, it is W<sup>ly</sup> to SW<sup>ly</sup> generally, but a SE<sup>ly</sup> breeze is reported at Valentin. Sea is moderate to calm.

Barometrical Indications. Pressure is increasing over the whole of W<sup>est</sup> Europe; the change has been greatest in the N, as that gradient has become much slighter than of late.



# DAILY WEATHER REPORT

Nov<sup>r</sup> 9<sup>th</sup> 1877.

STATIONS.	† YESTERDAY EVENING.					8 A.M. TO DAY.										PAST 24 HOURS.		
	Barometer at 320 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 320 F. and Sea Level.	Difference from 8 a.m. yesterday.	Dry.	Wet.	Difference from 8 a.m. yesterday.	Dir.	Force. (0 to 12).			Max.	Min.		
Haparanda ...	29.68	23	Z	0	f	29.73	+ .35	21	21	- 9	Z	0	bc	*	30	18	-	
Hernösand ...	29.75	30	Z	0	δ	29.66	+ .09	35	34	- 3	Z	0	f	*	*	*	-	
Stockholm ...	29.73	43	Z	0	0	29.73	+ .01	42	42	- 1	WSTH	2	0	*	*	*	0.24	
Wisby ...	29.75	48	SW	4	r	29.85	+ .08	44	42	- 4	H	4	c	*	*	*	0.35	
Christiansund ...	29.59	42	ESE	1	0	29.58	+ .03	41	41	0	ESE	1	c	4	45	?	0.47	
Skudesnaes ...	29.64	46	S	6	r	29.65	- .02	46	44	- 2	SE	6	c	4	48	?	-	
Oxö (Xtiansand) ...	29.72	44	N	2	c	29.76	+ .03	47	46	+ 6	SSW	2	0	2	?	?	-	
Skagen (The Seaw) ...	29.76	46	Z	0	r	29.82	+ .07	45	45	- 1	WSTH	3	0	2	48	39	0.16	
Fanö ...	29.83	50	WSTH	1	bc	29.84	+ .08	49	48	- 1	S	4	c	*	?	46	0.08	
Cuxhaven ...	29.85	42	WSTH	1	c	29.95	+ .14	48	48	- 7	SSW	2	c	*	?	46	0.32	
Sumburgh Head ...	29.52	42	Z	0	δ	29.52	- .18	48	47	+ 5	SE	6	0	6	50	39	-	
Stornoway ...	29.44	44	SSW	2	ou	29.11	- .37	45	44	+ 9	SW	3	c	5	45	36	0.20	
Thurso ...	29.53	40	SW	2	c	29.20	- .30	46	45	+ 6	SSE	2	bc	2	50	38	0.02	
Wick ...	29.50	44	S	1	0	29.22	- .29	48	47	+ 6	S	3	c	4	51	41	0.15	
Nairn ...	29.55	41	SW	1	c	29.20	- .33	49	45	+ 9	SW	2	c	1	50	40	0.01	
Aberdeen ...	29.59	43	SW	1	δ	29.27	- .28	48	37	+ 5	S	3	δ	1	50	43	0.06	
Leith ...	29.61	46	WSTH	3	bc	29.30	- .30	50	46	+ 6	SW	1	δ	*	52	43	-	
Shields ...	29.70	47	SW	2	cm	29.43	- .25	49	48	+ 8	SSW	4	δ	2	53	41	-	
Scarborough ...	29.76	46	SW	1	δ	29.49	- .24	50	49	+ 8	S	5	0	2	50	42	0.07	
York ...	29.74	49	SW	1	0	29.49	- .25	50	50	+ 11	S	2	m	4	53	37	0.08	
Nottingham ...	29.79	48	SSE	2	c	29.54	- .25	52	51	+ 17	S	5	r	*	52	34	0.07	
Ardrossan ...	29.58	50	S	3	0	29.29	- .30	51	49	+ 3	SSW	3	0	3	53	49	0.19	
Greencastle ...	29.47	45	SE	2	0	29.26	- .33	45	44	+ 4	SW	2	0	*	50	39	0.17	
Donaghadee ...	29.57	48	SSW	2	c	29.33	- .33	45	44	+ 7	S	3	δ	2	51	38	0.11	
Kingstown ...	29.60	50	SSE	3	0	29.39	- .30	49	47	+ 2	SSE	2	bc	2	53	45	0.02	
Holyhead ...	29.64	50	SSW	3	m	29.42	- .29	52	50	+ 5	SW	4	bc	3	54	46	0.55	
Liverpool (Bidston) ...	29.70	49	SSE	2	0	29.45	- .27	49	47	+ 6	S	2	δ	1	53	45	0.05	
Valencia ...	29.35	54	S	8	rg	29.29	- .41	50	46	+ 4	SW	4	bc	4	55	45	0.69	
Roche's Point ...	29.51	50	SSW	4	r	29.43	- .29	48	48	+ 4	WSTH	2	r	4	54	44	0.53	
Pembroke ...	29.69	53	SSW	4	0	29.48	- .27	53	51	+ 1	SW	4	bc	4	55	51	0.61	
Portishead ...	29.80	50	WSTH	3	bc	29.52	- .27	55	54	+ 8	SSW	4	0	4	57	44	0.32	
Seilly ...	29.82	53	SW	4	0	29.58	- .24	53	53	+ 10	SW	2	0	*	56	43	0.35	
Plymouth ...	29.82	55	SW	4	δ	29.63	- .20	54	54	- 1	SW	6	r	6	55	48	0.18	
Hurst Castle ...	29.93	53	WSTH	3	δ	29.78	- .17	53	51	+ 2	SSW	6	ow	5	55	57	0.22	
Dover ...	29.88	53	SW	3	δ	29.68	- .16	52	51	+ 7	SSW	6	gr	*	60	45	0.03	
Oxford ...	*	*	*	*	*	29.58	- .24	52	51	+ 8	S	4	r	*	56	43	0.07	
Cambridge ...	29.85	44	SW	1	bc	29.64	- .17	51	50	+ 10	S	2	r	*	58	40	0.02	
Yarmouth ...	29.86	49	SW	2	δm	29.72	- .09	51	50	+ 4	SSW	5	og	4	53	45	0.02	
The Helder ...	*	*	*	*	*	29.84	+ .05	44	46	- 7	S	2	0	*	*	*	0.04	
Cape Gris Nez ...	29.93	54	WSTH	3	bc	29.83	- .05	52	50	- 2	S	6	r	5	57	50	0.08	
Jersey ...	29.97	53	SW	4	δ	29.76	- .14	55	53	+ 3	SW	7	ow	6	56	52	0.19	
Brest ...	29.95	57	SW	4	0	29.73	- .19	55	55	+ 1	SSW	6	r	6	57	52	0.43	
L'Orient ...	30.11	59	H	3	δ	30.02	+ .04	55	54	+ 1	S	4	0	4	?	48	-	
Rochefort ...	30.16	61	SSW	3	bc	30.08	+ .05	54	50	0	SSW	2	0	5	?	48	0.08	
Corunna ...	*	*	*	*	*	29.95	+ .10	48	*	- 6	S	6	0	*	*	*	*	
Brussels ...	*	*	*	*	*	30.00	+ .15	47	*	- 5	SSE	3	0	*	*	*	0.17	
Charleville ...	*	*	*	*	*	30.00	+ .08	48	47	- 5	S	3	0	*	*	*	*	
Paris ...	30.03	57	H	1	δ	30.14	+ .12	59	47	- 5	S	3	0	*	*	*	-	
Lyons ...	*	*	*	*	*	30.14	+ .12	59	*	- 1	SW	2	0	*	*	*	*	
Toulon ...	30.17	55	E	5	r	30.19	+ .09	55	54	0	SE	3	r	4	55	54	0.16	

## YESTERDAY'S 2 P.M. REPORTS AND REMARKS.

	Bar.	Dry.	Wet.	Wind.	Wes.	Sea.		Bar.	Dry.	Wet.	Wind.	Wes.	Sea.		
Skudesnaes ...	29.65	48	47	SSE	6	f	5	Valencia ...	29.53	50	48	SSW	7	rg	6
Thurso .....	29.52	50	46	SW	1	b	2	Seilly .....							
Scarborough ...	29.74	47	45	SW	1	b	2	London .....	29.86	56	51	WSTW	2	bc	*
Greencastle ...	29.56	47	45	SE	2	0	*	Rochefort ...	30.03	61	57	W	3	bc	3
Holyhead .....	29.71	52	49	SSW	4	cm	3								

Weather is very fine in the east, but is cloudy in the west, with rain and gloom at Valencia. Wind is blowing a moderate gale from SSW in the S. of Ireland, where the barometer is falling quickly. Warnings. The following has been sent our west coasts. "Barometer falling Valencia, hourly south cone 3.20, Thursday."

## EXPLANATION OF COLUMNS.

**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.

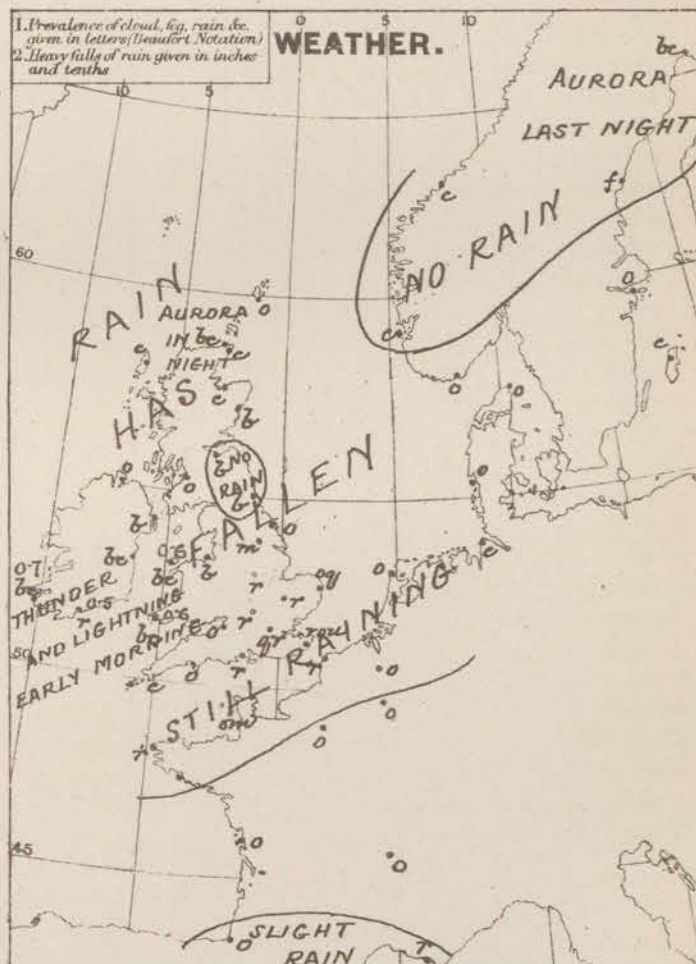
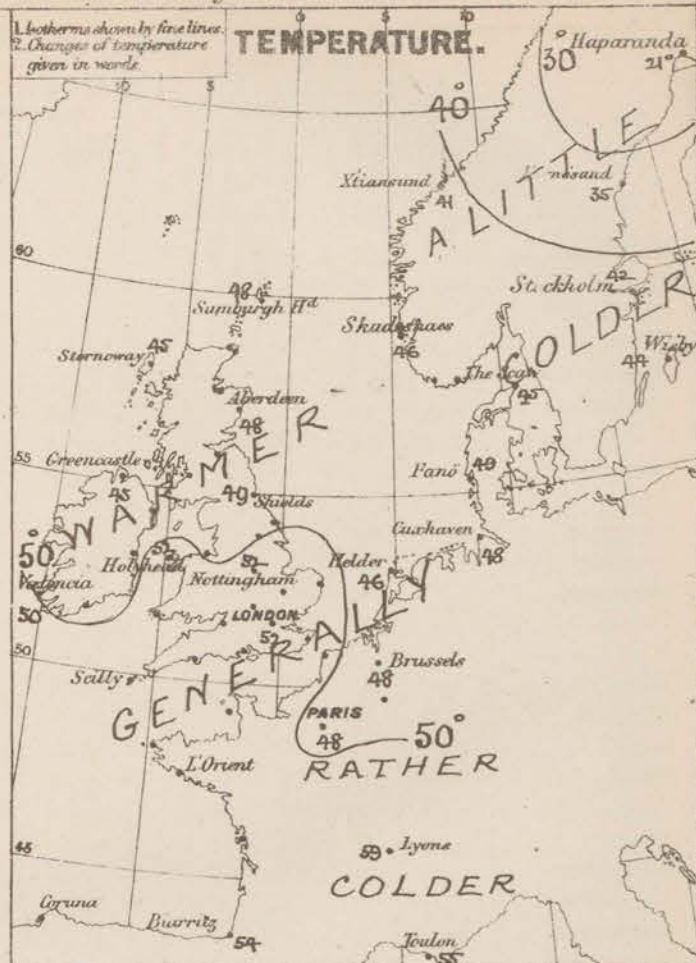
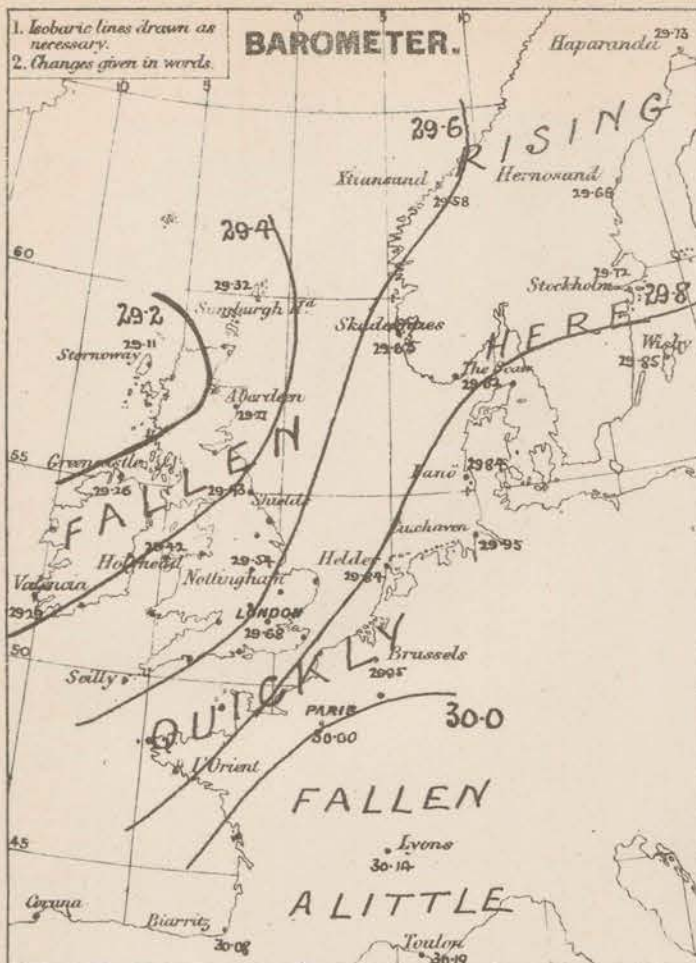
\* AN ASTERISK is inserted in all places for which information is not usually received.

† The evening observations are taken at 5 p.m. in our Islands, at 8 p.m. (Christiania time) in Sweden, Norway, and Denmark, and at 7 p.m. (Paris time) in France.

N.B.—The wind is said to "veer" when its direction changes with the sun, and to "back" when it shifts in the opposite direction.



# WEATHER CHARTS for 8 a.m. on Friday Nov. 9<sup>th</sup> 1877.



**REMARKS.** Weather. Very unsettled generally, although the sky is at present moderately clear over our W and N coasts. Rain is falling at the SE and Central stations, and also at Roskeil, and more than half an inch of rain has fallen on our W coasts since yesterday. Aurora was seen at several of the N stations last night, and thunder and lightning in the S. of Iceland early this morning. Temperature. Rises quickly since yesterday especially over the island parts of England. At Nottingham it has risen 17° and at York 11°. It now varies from 45° to 50° in Scotland and Ireland, and 50° to 54° over England. Wind is SW at the Irish and English stations, from the North Sea and Scotland, SE in the Shetlands and W of Norway. It blows a slight gale in the Channel. A fresh gale was felt in St. George's Channel during the night, and strong breezes in the north. Sea is rough in the S. equatorial stream.

Barometrical Indications.  
A very brisk fall of the barometer has taken place over our Islands, while the previous rise has continued in Norway and Denmark. In the W. the mercury is still inclined to fall.

Winds, wind currents as follows.  
1. To our W coasts, "Barometer falling Valentin, freshening S. wind. West S. Co. 3.20. Thursday."  
2. "SW. N. & NE. coasts" Barometer falling only just Valentin, with freshening S. gale. West S. Co. 7.45. Thursday

Subscription for these Charts payable in advance to cover delivery. Delivery by hand 2/6 per quarter, book post 5/6 per quarter.

Meteorological Office,  
116, Victoria Street, Westminster, S.W.

R. H. SCOTT,  
Secretary



# DAILY WEATHER REPORT Nov. 10<sup>th</sup> 1877.

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.		
Haparanda ...	29.84	33	S	2	o	29.88	+ .15	36	36	+ 5	Z	o	o	*	34	18	-	
Hernösand ...	29.82	28	N S W	2	f	29.82	+ .16	31	31	- 4	W	2	o	*	*	*	-	
Stockholm ...	29.85	41	S W	2	o	29.83	+ .10	47	42	+ 5	SSE	2	f	*	*	*	-	
Wisby ...	29.86	45	S W	4	o	29.86	+ .01	46	45	+ 2	SSE	4	o	*	*	*	-	
Christiansund ...	29.41	43	SE	4	o	29.22	- .36	57	44	+ 10	SSE	3	c	o	?	39	0.12	
Skudesnaes ...	29.43	48	SSE	8	r	29.30	- .35	49	49	+ 3	SSE	8	o	5	30	46	0.24	
Oxö (Xtiansand) ...	29.64	48	S	4	r	29.41	- .25	49	49	+ 2	SSE	6	o	5	30	46	-	
Skagen (The Sæw) ...	29.77	48	S W	4	o	29.55	- .27	49	48	+ 4	SSW	6	r	5	?	39	0.08	
Fanö ...	29.65	49	SSW	6	r	29.54	- .30	50	49	+ 1	SSW	6	o	*	50	48	0.12	
Cuxhaven ...	29.86	46	SSW	3	o	29.65	- .30	51	51	+ 3	SSW	3	o	*	?	46	0.07	
Sumburgh Head ...	29.17	48	SSE	3	a	29.06	- .26	41	40	- 7	Z	o	bc	4	49	38	0.30	
Stornoway ...	29.11	38	SSW	1	o	28.89	- .22	37	36	- 8	NE	1	cu	4	48	32	0.05	
Thurso ...	29.15	43	SSW	2	o	28.96	- .24	43	42	- 3	ESE	2	c	3	55	35	-	
Wick ...	29.13	46	S	2	o	28.97	- .25	47	46	- 1	S	3	o	3	53	36	-	
Nairn ...	29.15	45	? Z	? o	o	? 28.92	- .28	42	40	- 7	SE	3	o	1	50	37	-	
Aberdeen ...	29.19	47	SSW	1	r	28.95	- .32	48	47	o	S	6	r	3	52	39	0.12	
Leith ...	29.14	46	SSW	2	o	28.90	- .40	45	44	- 5	S W	3	r	*	56	39	0.16	
Shields ...	29.26	53	S	3	c	29.08	- .35	47	45	- 2	SSW	5	o	2	56	44	-	
Scarborough ...	29.32	57	S W	3	o	29.18	- .31	47	45	- 3	S W	4	o	3	54	46	0.02	
York ...	29.34	57	S	1	o	29.18	- .31	46	44	- 4	S	2	o	*	57	44	0.01	
Nottingham ...	29.38	57	S	1	c	29.26	- .28	47	44	- 5	S	6	o	*	58	46	0.05	
Ardrossan ...	29.17	49	SSW	3	a	28.89	- .40	47	44	- 4	S W	4	r	4	52	44	0.49	
Greencastle ...	29.11	46	S	2	o	28.91	- .35	43	42	- 2	SSW	2	c	*	49	42	0.05	
Donaghadee ...	29.18	42	SSW	2	c	28.94	- .39	41	41	- 4	W	2	c	1	48	40	0.35	
Kingstown ...	29.22	49	S	3	o	28.98	- .41	47	44	- 2	S	3	c	2	52	45	0.11	
Holyhead ...	29.25	57	SSW	4	o	29.03	- .39	48	47	- 4	SSW	5	r	4	55	48	0.75	
Liverpool (Bidston) ...	29.29	49	SSW	4	r	29.12	- .33	47	45	- 2	S	4	c	4	55	45	0.23	
Valencia ...	29.05	57	S	6	o	29.01	- .28	47	45	- 3	W	4	cu	4	54	45	0.36	
Roche's Point... ..	29.17	47	SSW	7	r	29.04	- .39	45	43	- 3	W	3	bc	4	50	45	0.50	
Pembroke ...	29.31	53	S W	4	bc	29.11	- .37	53	49	o	SSW	8	bc	7	55	? 50	0.18	
Portishead ...	29.41	54	SSW	3	c	29.30	- .22	50	47	- 5	S	5	bcu	4	59	45	0.06	
Scilly ...																		
Plymouth ...	29.45	55	S W	5	r	29.34	- .24	52	51	- 1	S W	5	o	*	58	50	0.16	
Hurst Castle ...	29.45	55	S W	4	bc	29.39	- .24	56	56	+ 2	N S W	5	o	5	57	54	0.23	
Dover ...	29.57	54	N E W	6	o	29.47	- .31	54	52	+ 1	S W	7	bcu	6	56	51	0.68	
London ...	29.48	55	SSW	4	o	29.40	- .28	49	47	- 3	S W	3	o	*	57	46	0.21	
Oxford ...	*	*	*	*	*	29.35	- .23	47	45	- 5	S	3	bc	*	57	46	0.43	
Cambridge ...	29.46	46	S	2	o	29.37	- .27	46	45	- 5	SSW	2	o	*	57	45	0.23	
Yar mouth ...	29.57	53	SSW	6	r	29.40	- .32	48	47	- 3	SSW	5	bc	3	54	47	0.20	
The Helder ...	*	*	*	*	*	29.52	- .32	52	57	+ 6	S	3	r	*	*	*	0.12	
Cape Gris Nez ...	29.61	52	S	8	r	29.50	- .33	54	52	+ 2	S	8	r	6	55	46	0.32	
Jersey ...	29.61	55	S W	4	o	29.55	- .21	53	57	- 2	S W	6	bcu	6	57	50	0.46	
Brest ...	29.62	?	S W	5	o	29.57	- .16	55	54	o	N S W	5	o	7	57	50	0.47	
L'Orient ...	29.69	55	N S W	5	c	29.63		54	54	- 1	N S W	6	bc	7	57	48	0.95	
Roche fort ...	29.87	59	S	6	o	29.80	- .22	57	55	+ 2	S W	5	o	3	61	50	0.12	
Bi ritz ...	29.93	59	S	3	o	29.89	- .19	59	55	+ 5	N S W	3	o	5	63	52	-	
Corunna ...	*	*	*	*	*										*	*	*	
Brussels ...	*	*	*	*	*	29.65	- .30	52	*	+ 4	S	6	o	*	*	*	0.02	
Charleville ...	*	*	*	*	*	? 29.70	- .30	57	*	+ 4	S W	6	o	*	*	*	*	
Paris ...	?	52	S	5	r	29.73	- .27	52	50	+ 4	S	3	o	*	*	*	-	
Lyons ...	*	*	*	*	*	29.95	- .19	59	*	o	SE	2	r	*	*	*	*	
Toulon ...	30.10	57	S W	4	m	29.99	- .20	57	55	+ 2	S W	3	f	4	59	55	-	
YESTERDAY'S 2 P.M. REPORTS AND REMARKS.																		
	Bar.	Dry.	Wet.	Wind.	Wes.	Sea.		Bar.	Dry.	Wet.	Wind.	Wes.	Sea.					
Skudesnaes ...	29.80	50	49	SSE	8	r	5	Valencia ...	29.18	50	48	SSW	5	bcu	4			
Thurso ...	29.15	53	49	SSE	1	bc	2	Scilly ...										
Scarborough ...	29.37	53	52	SSW	2	bc	3	London ...	29.56	57	55	SSW	4	od				
Greencastle ...	29.17	47	45	S	2	o	*	Roche fort ...	29.94	57	55	SSW	6	o	4			
Holyhead ...	29.31	57	50	SSW	4	bc	3											

## YESTERDAY'S 2 P.M. REPORTS AND REMARKS.

	Bar.	Dry.	Wet.	Wind.	Wes.	Sea.		Bar.	Dry.	Wet.	Wind.	Wes.	Sea.		
Skudesnaes ...	29.80	50	49	SSE	8	r	5	Valencia .....	29.18	55	48	SSW	5	bcu	4
Thurso .....	29.15	53	49	SSE	1	bc	2	Scilly .....							
Scarborough ...	29.37	53	52	SSW	2	bc	3	London .....	29.56	57	55	SSW	4	od	
Greencastle ...	29.17	47	45	S	2	o	*	Roche fort ...	29.94	57	55	SSW	6	o	4
Holyhead .....	29.11	57	50	SSW	4	bc	3								

The barometer is still falling at all stations, and the wind is backing a little on our western coast with thunder, lightning, and rain.

## EXPLANATION OF COLUMNS.

**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.

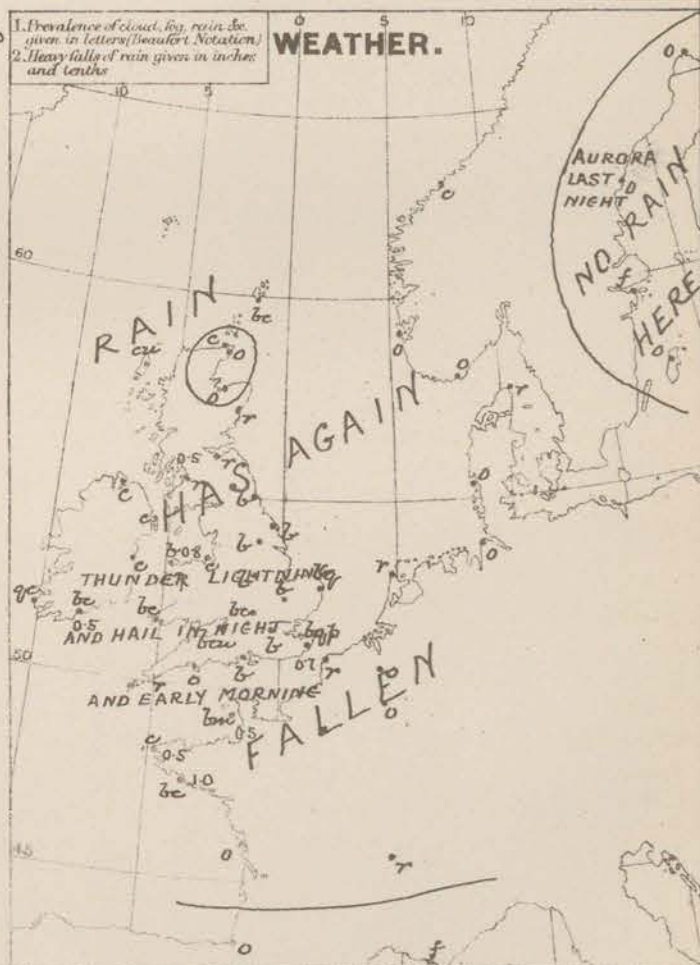
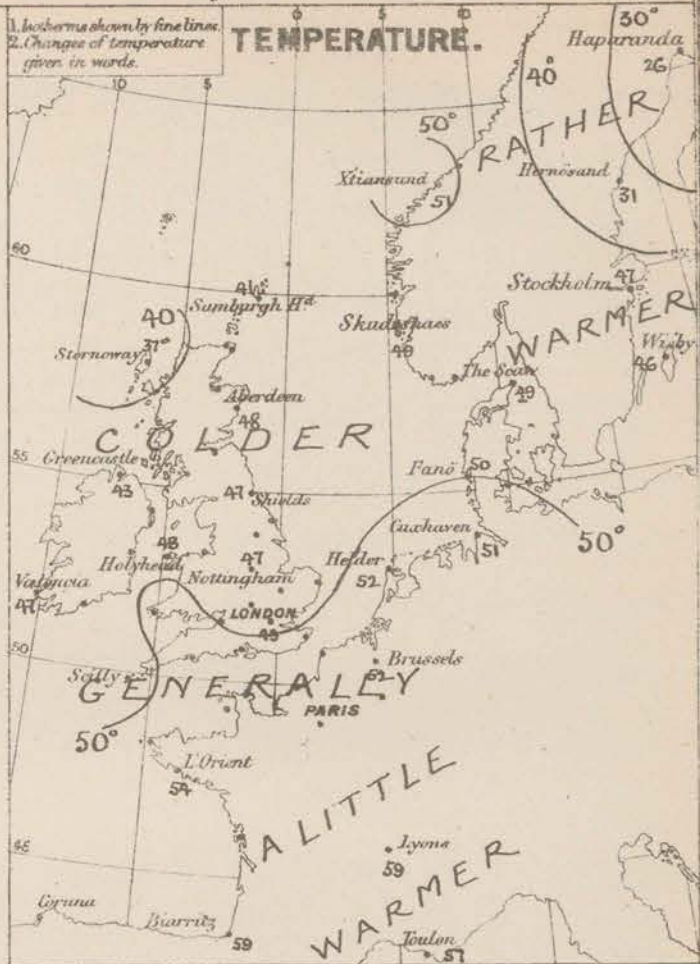
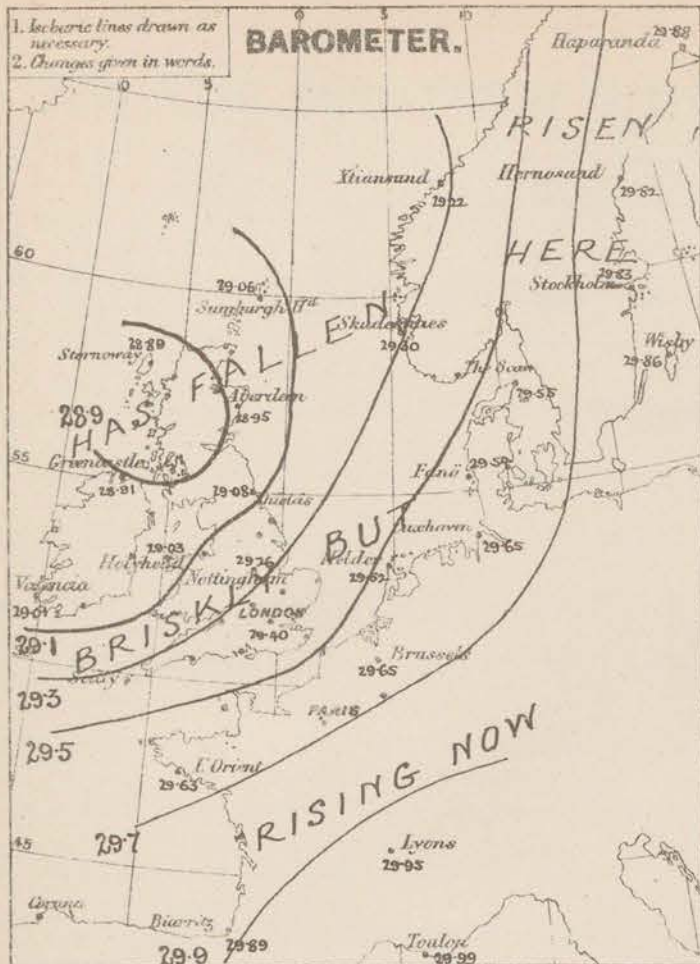
\* AN ASTERISK is inserted in all places for which information is not usually received.

† The evening observations are taken at 6 p.m. in our Islands, at 8 p.m. (Christiania time) in Sweden, Norway, and Denmark, and at 7 p.m. (Paris time) in France.

N.B.--The wind is said to "veer" when its direction changes with the sun, and to "back" when it shifts in the opposite direction.



WEATHER CHARTS for 8 a.m. on Saturday Nov<sup>r</sup>. 10<sup>th</sup> 1877.



REMARKS. Weather remains in a very unsettled condition all over the country, although the sky is at present clear, so nearly so, at many of the S<sup>th</sup> and E<sup>th</sup> stations. Rain is falling in the N. and a considerable quantity fell during yesterday in the W and S, accompanied by thunder and lightning. A severe squall from the S<sup>W</sup> passed over London at 5 am. with thunder, lightning, hail and rain. Temperature has fallen a few degrees in our Islands, but risen on the Continent, especially in Norway. It is now 37° in the Hebrides, 42° to 47° over Scotland generally, 47° over England and Ireland, and 52° to 56° in the Channel. Winds is moderate from W. in Ireland, fresh to a gale from the SW in the Channel, fresh S<sup>E</sup> and SW in the N. and E, and strong to a gale from SSE in the S. of Norway. A brisk gale from the S<sup>W</sup> was felt on our W. and S. coasts during the night. Sea is high at the mouth of the Channel, rough on our S. coasts, and on the E. shores of the North Sea, moderate or slight elsewhere. Barometrical Indications. A somewhat complex depression now lies over our NW and W coasts, while readings are highest in the S. of France, and over the Baltic. The barometer is now rising on our SW and S<sup>W</sup> coasts, but falling in Norway. Fannings. All our coasts have been warmed during the past day or two.

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Meteorological Office,  
116, Victoria Street, Westminster, S. W.

R. H. SCOTT.

Secretary



# SUMMARY OF WEATHER IN WESTERN EUROPE

from NOV<sup>R</sup> 4<sup>TH</sup> to NOV<sup>R</sup> 10<sup>TH</sup> 1877.

(Issued Weekly as a Supplement to the "Daily Weather Report.")

This has proved to be another week of very unsettled weather; except on Thursday 8<sup>th</sup> when pressure was comparatively uniform, the wind light, and the sky moderately clear, disturbance has followed disturbance in quick succession from SW. to NE. across our area. In consequence strong SW<sup>ly</sup> to S<sup>ly</sup> winds have been general, accompanied by a great deal of rain very cloudy skies and unsettled weather, and towards the close of the week by thunder and lightning. Temperature has been very unsteady especially over Central England.

NOV<sup>R</sup> 4<sup>TH</sup> The mercury had risen rather briskly on the eastern shores of the North Sea, but fallen in all other places. In the N. the decrease exceeded half an inch, and a large area of low pressure lay off our NW<sup>th</sup> coasts, while the highest readings were shown over the E. of France. Wind was NW<sup>ly</sup> over the Baltic and Denmark, S<sup>ly</sup> on nearly all other coasts, in the SE. and S. it was very light, but in the W. and N. increased to a strong breeze or moderate gale. Temperature had risen briskly in the W. and N. but in the SE. it had fallen several degrees, and was as low as 34° at Cambridge, and 37° at Chisleworth and in London, at our W<sup>th</sup> stations it stood at 53°. Sky was clear in Denmark, North Germany, and on our SE. coast, overcast elsewhere with rain in the West. In the evening the depression noticed on our NW. coasts, was apparently passing across Scotland, the barometer was rising and the wind veering in the SW. but the weather remained very dull.

NOV<sup>R</sup> 5<sup>TH</sup> The depression of the 4<sup>th</sup> lay between the Shetlands and the N. coast of Norway, the barometer had risen during the night, at all except the Scandinavian, Danish, and N. German stations. The highest pressures lay over the SE. of France. Wind was W<sup>ly</sup>, and light or moderate in force on our own, and the French coast, fresh or strong from S. on the E<sup>th</sup> shores of the North Sea. Temperature had fallen somewhat over the greater part of these Islands, but had risen very fast in the SE. and over the Netherlands. Weather was fine in the British Isles but generally dull on the Continent. During the day pressure gave way again in the W. though it still rose elsewhere.

NOV<sup>R</sup> 6<sup>TH</sup> The mercury was falling in all parts of these Islands, though still rising over France; the general distribution of pressure was unchanged, the highest readings being reported from Lyons, while the lowest lay over the N. coast of Norway. Gradients, however, were steeper. Wind had backed to S. or SW. generally, and to SE. at Valencia. It was strong to a gale in the Channel, and on the E<sup>th</sup> shores of the North Sea, moderate elsewhere. Temperature had risen except in France. Weather was dull and unsettled in most places with rain in the S. and SE. Later in the day the barometer fell rapidly at Valencia for a short time, and the wind increased to a moderate gale there, and in the St George Channel.



NOV<sup>r</sup> 7<sup>th</sup> Pressure was increasing again at most of our stations, but falling on the Continent. The position of the area of high readings was unaltered, but a large depression lay over the N. of Scandinavia while a small local disturbance was shown near the Shetlands. Wind was NW<sup>ly</sup> in the extreme NE of Scotland, and N<sup>ly</sup> in the S. of Ireland, but was generally S<sup>ly</sup> to SW<sup>ly</sup> elsewhere. It was still strong on the E<sup>m</sup> shores of the North Sea and in the Channel, but was moderate on most other coasts. Temperature was rather lower over these Islands, and a few degrees higher over France, while in Scandinavia it was scarcely changed. Weather was moderately fine at the greater number of our stations, but showers were reported in S. Ireland, and on the Continent the sky was generally overcast with rain in many places. During the day the barometer rose everywhere, and gradients still further decreased.

NOV<sup>r</sup> 8<sup>th</sup> Pressure was much more uniform, varying from 30.1 in: at Toulon to 29.48 in: at Farnway, and the increase noticed on the previous evening continued generally. Wind was light or moderate on all coasts. It was N<sup>ly</sup> over the Bay of Biscay, but varied between S. and SW. in most other places, at Valentia it was SE. Temperature had fallen everywhere - the change was largest (10° to 15°) over Central England, & the thermometer was as low as 35° at York. Weather was moderately clear over the greater part of these Islands, and in the NW of France, cloudy elsewhere with rain in N. Germany, and fog over SE<sup>m</sup> England. A rapid fall of the barometer occurred in the S. of Ireland during the day, and the wind increased to a fresh gale. At 6 PM the decrease had not extended beyond our NW stations.

NOV<sup>r</sup> 9<sup>th</sup> The mercury was falling at all but the Scandinavian, Danish, and E<sup>m</sup> French stations. A deep depression lay off our NW coasts, and reading varied from 29.11 in: at Farnway, to 30.19 in: at Toulon, gradients were steepest in the SE. Wind was SW<sup>ly</sup> to S<sup>ly</sup> over France and the British Isles, but drew into SE. in the N. of Norway and the Shetlands. It was fresh or strong except in Ireland and Scotland. Temperature had fallen over N. Germany and the NE. of France, risen briskly elsewhere, as much as 17° at Nottingham. Weather was very unsettled, though temporarily clear in the N. and NE. Rain was falling in the SE. and S. At 6 PM the barometer was falling in all parts of NW Europe, with a strong SW<sup>ly</sup> wind in the S. and SE.

NOV<sup>r</sup> 10<sup>th</sup> A large, complex depression lay off our NW coasts, and the barometer had fallen briskly over the whole of NW Europe. It was apparently recovering again the SW. and S. at 8 am, but gradients remained very steep over England and the Channel. Wind was N<sup>ly</sup> in the S. of Ireland, NW<sup>ly</sup> and S<sup>ly</sup> elsewhere. It was fresh or strong generally and reached the force of a gale at Pembroke, Cape Fin Ky, and Skudenes. Temperature had fallen on all our coasts. Weather was clear on our E. and SE. coasts, dull or cloudy elsewhere with rain in many places. In the evening the disturbance was moving away over Scotland, and the barometer was rising at all the more SW stations with improving weather.



# DAILY WEATHER REPORT NOV 11<sup>TH</sup> 1877.

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 15).		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 15).			Max.	Min.		
Haparanda ...	29.89	33	SW	2	o	29.80	-.08	38	38	+ 12	SE	4	r	*	?	25	0.12	
Hernösand ...	29.71	33	S	6	r	29.67	-.15	42	41	+ 11	S	4	f	*	*	*	0.16	
Stockholm ...	29.74	46	S	4	o	29.69	-.14	45	44	- 2	S	4	r	*	*	*	0.04	
Wisby ...	29.82	46	SSE	4	f	29.79	-.07	45	45	- 1	S	4	r	*	*	*	0.28	
Christiansund ...	29.16	51	SE	3	bc	29.10	-.12	49	44	- 2	SE	3	c	2	52	45	-	
Skudesnaes. ...	29.23	50	SSE	8	o	29.22	-.08	49	48	o	SSE	8	o	7	50	?	0.20	
Oxö (Ktiansand) ...	29.42	47	S	4	c	29.38	-.03	49	48	o	S	4	o	4	50	47	-	
Skagen (The Seaw) ...	29.56	49	SSW	4	bc	29.52	-.03	49	48	o	SW	5	o	4	50	46	0.04	
Fanö ...	29.52	50	S	6	o	29.50	-.04	50	49	o	S	4	o	*	50	48	-	
Cuxhaven ...	29.64	41	SSW	1	c	29.59	-.06	48	46	- 3	SSW	1	c	*	54	45	-	
Sumburgh Head ...	28.82	48	SSE	6	c	28.82	- .24	47	44	+ 6	S	5	c	5	49	42	0.07	
Stornoway ...	28.77	38	N.N.W.	1	c	28.60	-.29	44	43	- 7	S	8	c	6	44	34	0.23	
Thurso ...	28.76	41	SSE	2	bc	28.76	-.20	41	40	- 2	SSE	2	bc	2	57	36	0.06	
Wick ...	28.79	45	SW	3	bc	28.75	-.22	46	43	- 1	S	5	bc	3	48	40	0.02	
Nairn ...	28.82	42	Z	0	c	? 28.81	-.11	42	40	o	SE	1	bc	1	45	37	0.01	
Aberdeen ...	28.85	45	S	2	o	28.90	-.05	47	44	- 1	S	4	o	2	49	42	0.07	
Leith ...	28.90	45	SW	2	c	28.90	.00	46	44	+ 1	SSW	1	o	*	53	42	0.06	
Shields ...	29.03	48	SSW	5	r	29.07	-.01	45	44	- 2	SSW	5	c	2	57	43	0.04	
Scarborough ...	29.12	47	SSW	4	o	29.16	-.02	45	43	- 2	S	4	c	4	52	44	-	
York ...	29.12	46	SW	4	o	29.13	-.05	45	44	- 1	SSW	3	o	*	54	43	-	
Nottingham ...	29.24	45	S	5	o	29.21	-.05	46	44	- 1	S	6	o	*	55	43	0.06	
Ardrossan ...	28.92	48	SW	2	bc	28.79	-.10	49	46	+ 2	S	5	c	4	50	47	0.01	
Greencastle ...	28.89	44	N	2	o	28.88	-.33	46	44	+ 3	S	5	ow	*	50	39	0.03	
Donaghadee ...	28.99	44	SSW	2	c	28.73	-.21	48	48	+ 7	S	6	r	4	49	40	0.08	
Kingsdown ...	29.08	49	S	4	o	28.80	-.18	50	47	+ 3	SSE	5	od	4	52	45	0.05	
Holyhead ...	29.09	50	SW	6	o	28.92	-.11	50	49	+ 2	SSW	7	rg	5	52	48	0.33	
Liverpool (Bidston) ...	29.11	48	SSW	4	c	29.03	-.09	46	44	- 1	SE	4	c	3	52	43	0.01	
Valencia ...	29.24	48	N.S.W.	5	c	28.84	-.47	54	52	+ 7	SSW	9	rg	7	59	45	0.69	
Roche's Point... ..	29.20	50	N	5	bc	28.78	-.26	53	53	+ 8	SW	8	r	5	53	45	0.45	
Pembroke ...	29.22	52	SW	6	bc	29.02	-.09	57	51	- 2	SSW	7	o	6	53	49	0.21	
Portishead ...	29.30	49	N.S.W.	6	bc	29.22	-.08	50	47	o	S	6	ow	4	55	44	0.04	
Scilly ...	29.30	49	N.S.W.	6	bc	29.22	-.08	50	47	o	S	6	ow	4	55	44	0.04	
Plymouth ...	29.39	50	N.S.W.	3	o	29.24	-.10	52	51	o	SSW	7	r	*	63	49	0.28	
Hurst Castle ...	29.36	53	N.S.W.	5	o	29.33	-.06	54	52	- 2	N.S.W.	6	r	6	55	46	0.31	
Dover ...	29.47	53	SW	6	c	29.47	.00	53	50	- 1	SW	6	rg	5	56	50	0.06	
London ...	29.37	53	SW	4	c	29.40	.00	48	46	- 1	SSE	3	c	*	56	46	0.07	
Oxford ...	29.29	53	SW	4	c	29.29	-.06	48	46	+ 1	S	2	o	*	57	44	0.20	
Cambridge ...	29.32	50	SSW	2	c	29.34	-.03	46	44	o	S	2	ow	*	58	44	0.18	
Yar mouth ...	29.06	57	SW	5	bc	29.40	.00	48	46	o	SSW	3	o	3	55	46	0.04	
The Helder ...	29.50	53	SW	4	c	29.50	-.02	50	49	- 2	SSW	3	o	*	*	*	0.04	
Cape Gris Nez ...	29.49	55	S	7	c	29.52	+ .02	52	50	- 2	SSW	7	bc	5	57	48	0.08	
Jersey ...	29.54	54	SW	7	f	29.51	-.04	52	50	- 1	SW	7	o	6	57	50	-	
Brest ...	29.57	55	N	5	o	29.45	-.12	54	54	- 1	SW	6	r	8	57	50	0.20	
L'Orient ...	29.64	54	N	5	c	29.58	-.05	54	54	o	SW	6	o	7	57	48	0.08	
Roche fort ...	29.75	61	N.S.W.	6	o	29.76	-.04	55	52	- 2	SW	5	bc	4	63	50	0.24	
Bisritz ...	29.86	61	Z	0	o	29.91	+ .02	54	50	- 5	S	1	o	?	63	50	?	
Corunna ...	29.63	50	SW	4	c	29.63	-.02	48	48	- 4	SSW	6	bc	*	*	*	-	
Brussels ...	29.68	50	SW	4	c	29.68	-.02	50	50	- 1	SSW	3	o	*	*	*	-	
Charleville ...	29.69	52	S	4	bc	29.69	-.04	48	47	- 4	SSW	3	o	*	*	*	-	
Paris ...	29.90	56	SW	3	o	29.90	-.05	56	56	- 3	SW	3	r	*	*	*	-	
Lyons ...	29.88	54	SW	3	o	29.88	-.11	54	54	- 3	SW	2	o	?	?	?	0.28	

## YESTERDAY'S 2 P.M. REPORTS AND REMARKS.

	Bar.	Dry.	Wet.	Wind.	Wes.	Sea.		Bar.	Dry.	Wet.	Wind.	Wes.	Sea.		
Skudesnaes ...	29.21	50	48	SSE	8	r	6	Valencia .....	29.13	52	49	N	5	rg	5
Thurso .....	28.76	47	46	ESE	3	o	2	Scilly .....							
Scarborough ...	29.10	52	48	SSW	4	o	3	London .....	29.26	55	50	SSW	4	c	#
Greencastle ...	28.86	46	44	SSW	2	c	#	Roche fort ...	29.75	59	55	N.S.W.	5	o	5
Holyhead .....	29.03	50	46	SW	6	cp	5								

The depression in the N. is now moving eastwards, and the wind is drawing round to the westward, and still blows strongly on our SW coasts.

## EXPLANATION OF COLUMNS.

**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.

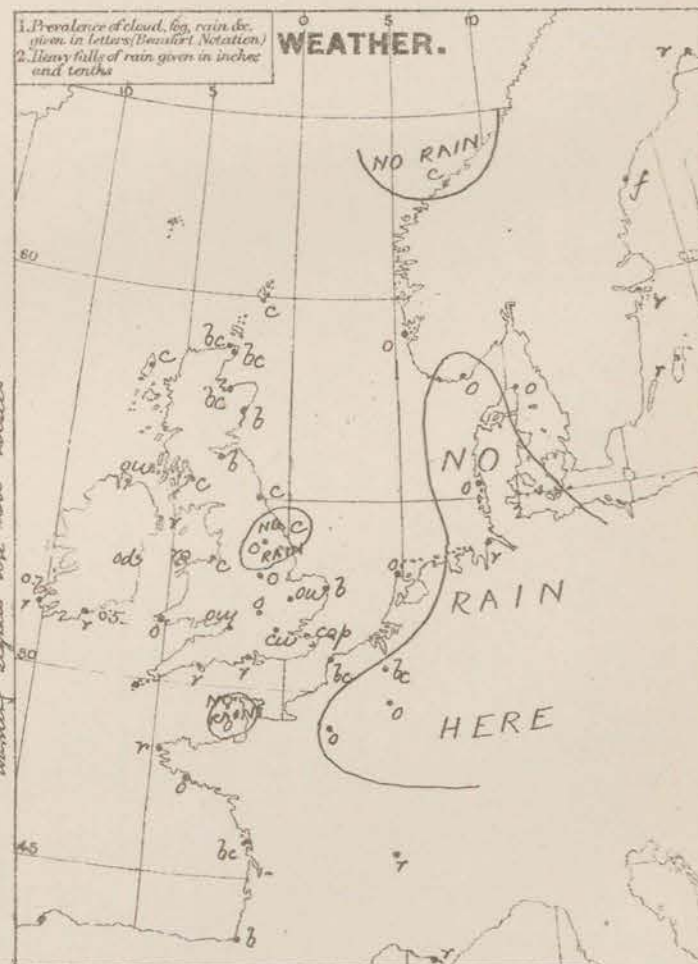
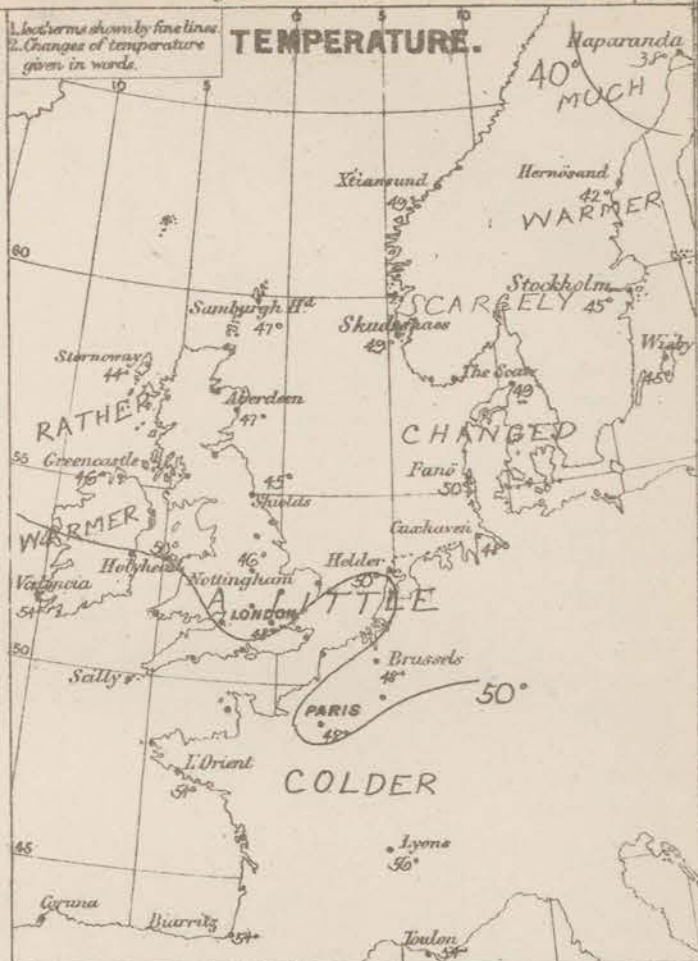
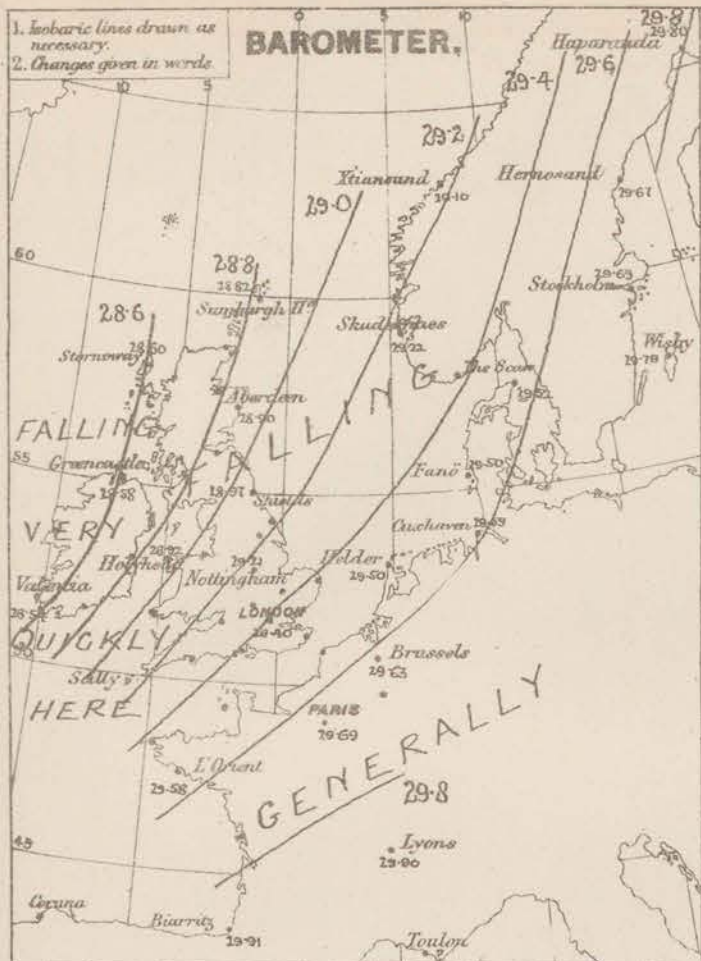
\* AN ASTERISK is inserted in all places for which information is not usually received.

† The evening observations are taken at 6 p.m. in our Islands, at 8 p.m. (Christiania time) in Sweden, Norway, and Denmark, and at 7 p.m. (Paris time) in France.

N.B.—The wind is said to "veer" when its direction changes with the sun, and to "back" when it shifts in the opposite direction.



WEATHER CHARTS for 8 a.m. on Sunday Nov. 11<sup>th</sup> 1877.



**REMARKS.** *Weather*, after clearing up temporarily, is again extremely unsettled; it is very cloudy in all places, and rain is falling at all the western and northern stations. *Rain* fell yesterday over nearly the whole of Western Europe, but the amounts were not very heavy, excepting in the south of Ireland, where more than half an inch was measured. *Temperature* has risen about 10° in the Baltic, and to a smaller extent at our western and northern stations, but in France a slight decrease is shown. Readings now vary from 35° at Haparanda to 45° in Iceland, and 54° in the south of England and over France. *Wind* has returned to the S.<sup>w</sup> or S.W.<sup>w</sup> in all places, and, though moderate or fresh in force generally, blows a strong gale at Valentia, and a fresh gale in the Hebrides. *Sea* is high off our south west coasts and at Skudenes, rough in the Channel and north of Scotland, moderate in the east.

Barometrical Indications. The barometer rose briskly in most parts of these Islands yesterday, as the depression swept away, but during the night a very rapid fall has set in on our western coasts, and it is evident that another serious depression is approaching us. At Valparaiso the decrease since 10pm amounts to nearly .07 in.

Warnings No warning signals were given in the east and south east last evening, but the following message has been sent to all coasts this morning:—"Baromet. again falling rapidly in west and S<sup>th</sup> wind rising. Heist built cone again. 9.10 am Sunday

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advance to cover delivery. Delivery by hand  
10/- per quarter, book post 5/- per quarter.

Meteorological Office,  
116, Victoria Street, Westminster, S. W.

**R. H. SCOTT**  
Secretary



# DAILY WEATHER REPORT

NOV<sup>R</sup> 12<sup>TH</sup>

1877.

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.				
Haparanda ...														*	*	*				
Hernösand ...														*	*	*				
Stockholm ...														*	*	*				
Wisby ...														*	*	*				
Christiansund ...																				
Skudesnaes ...																				
Oxö (Xtiansand) ...																				
Skagen (The Seaw) ...	29.48	49	SSW	7	δ	29.35	-.17	49	47	0	S	6	0	6	50	45	0.04			
Fanö ...	29.31	49	S	6	0	29.21	-.19	49	48	-1	S	7	7	*	50	48	0.04			
Cuxhaven ...	29.42	2	SSW	3	c	29.30	-.19	51	50	+3	S	5	7	*	52	46	0.01			
Sumburgh Head ...	28.47	49	SE	8	7	28.42	-.40	47	45	0	SE	6	0	7	50	44	0.26			
Stornoway ...	27.94	44	SSE	9	7	28.16	-.44	42	39	-2	S	10	60	8	50	38	0.35			
Thurso ...	28.16	49	SE	7	7	28.34	-.42	40	38	-1	SSE	2	δ	3	52	38	0.02			
Wick ...	28.10	45	S	10	0	28.39	-.36	45	41	-1	S	5	δ	8	53	43	-			
Nairn ...	28.13	52	SE	6	δc	28.41	-.40	40	39	+1	SE	6	δc	2	53	41	-			
Aberdeen ...	28.36	49	S	11	7	28.49	-.41	41	39	-6	SW	1	δc	4	51	40	0.26			
Leith ...	28.24	52	SW	7	7	28.51	-.39	41	39	-5	SSW	2	δc	*	53	38	0.07			
Shields ...	28.04	48	SSW	5	7	28.64	-.43	42	40	-3	SSW	2	δ	4	50	41	0.11			
Scarborough ...	28.66	50	S	8	c	28.73	-.43	40	41	-2	WSW	3	c	3	51	43	0.18			
York ...	28.60	52	S	4	0	28.75	-.38	41	40	-4	SW	2	δ	3	53	40	0.28			
Nottingham ...	28.70	52	S	8	7	28.80	-.41	41	40	-5	S	3	δ	*	52	40	0.48			
Ardrossan ...	28.18	51	SSW	5	og	28.45	-.34	46	41	-3	SSW	7	δg	6	54	44	0.73			
Greencastle ...	28.07	47	WSW	5	ow	28.03	-.25	40	37	-6	SSW	5	c	*	52	39	0.29			
Donaghadee ...	28.25	46	SW	6	0	28.51	-.22	48	47	0	WSW	3	δ	3	52	38	0.59			
Kingstown ...	28.33	49	SW	5	0	28.58	-.22	41	37	-9	SSW	4	δ	3	55	40	0.35			
Holyhead ...	28.41	51	SSW	8	7g	28.63	-.29	44	41	-6	SW	6	ow	5	54	43	0.66			
Liverpool (Bidston) ...	28.48	51	SE	3	7	28.71	-.32	?	?	?	SSW	3	δc	2	51	40	0.33			
Valencia ...	28.44	44	W	6	g7g	28.56	+ .02	44	42	-10	S	5	c	5	55	39	0.37			
Roche's Point ...	28.44	45	W	5	δc	28.63	-.15	40	39	-13	W	5	7g	5	50	38	0.84			
Pembroke ...	28.50	50	WSW	8	7	28.72	-.30	44	39	-7	SW	6	δc	5	53	44	0.79			
Portishead ...	28.68	53	SSE	9	7	28.85	-.37	40	39	-10	SSW	3	δ	4	55	39	0.60			
Scilly ...																				
Plymouth ...	28.69	55	SW	9	0	28.86	-.38	46	43	-6	SW	6	0	*	56	41	0.73			
Hurst Castle ...	28.81	53	SW	7	7	28.92	-.41	49	45	-5	W	5	δc	5	54	43	1.22			
Dover ...	29.11	53	SW	8	0	28.93	-.34	46	45	-7	WSW	3	δc	4	54	46	0.18			
London ...	28.95	52	SSW	9	og7	28.93	-.47	42	40	-6	S	3	δow	*	53	40	0.91			
Oxford ...	*	*	*	*	*	28.89	-.40	42	40	-6	SSW	1	c	*	53	42	0.94			
Cambridge ...	28.92	51	S	6	7	28.87	-.57	43	42	-3	S	3	c	*	52	42	0.64			
Yar mouth ...	29.06	51	SSW	8	7	28.87	-.53	43	43	-5	WSW	4	7	3	53	43	0.27			
The Helder ...	*	*	*	*	*	28.98	-.52	50	49	0	SSE	3	0	*	*	*	0.20			
Cape Gris Nez ...	29.19	52	S	10	7	29.04	-.48	48	46	-4	SSW	?	7	7	55	46	?			
Jersey ...	29.05	51	SW	10	7	29.03	-.48	48	44	-4	SW	7	δc	7	56	44	0.96			
Brest ...	28.95	55	W	8	7	29.04	-.41	48	46	-6	SW	6	0	8	57	46	0.63			
L'Orient ...	29.15	52	SW	8	7	29.11	-.47	48	46	-6	WSW	5	0	7	55	43	1.58			
Rochefort ...	29.58	57	SW	8	7	29.28	-.48	50	48	-5	S	6	7	6	59	48	0.71			
Bi rritz ...	29.72	59	SSW	5	7	29.32	-.59	55	54	+1	SSW	6	7	7	63	50	0.24			
Corunna ...	*	*	*	*	*										*	*	*			
Brussels ...	*	*	*	*	*	29.10	-.53	53	*	+5	S	9	0	*	*	*	0.08			
Charleville ...	*	*	*	*	*	? 29.26	-.42	46	*	-4	S	6	0	*	*	*	*			
Paris ...	29.47	53	S	6	7	29.20	-.49	48	46	0	S	3	0	*	*	*	0.16			
Lyons ...	*	*	*	*	*	?	?	58	*	+2	SW	2	?	*	*	*	*			
Toulon ...	29.86	52	W	4	δ	29.70	-.10	55	54	+1	SSW	5	7	5	59	?	0.04			

## YESTERDAY'S 2 P.M. REPORTS AND REMARKS.

	Bar.	Dry.	Wet.	Wind.	Wes.	Sea.		Bar.	Dry.	Wet.	Wind.	Wes.	Sea.
Skudesnaes ...	29.15	50	48	SSE	8	7	Valencia .....						
Thurso .....							Scilly .....						
Scarborough ...							London .....						*
Greencastle ...						*	Rochefort ...	29.46	57	54	SW	6	0
Holyhead .....													

## EXPLANATION OF COLUMNS.

**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 our Islands, at 8 p.m. (Christiania time) in Sweden, Norway, and Denmark, and at 7 p.m. (Paris time) in France.

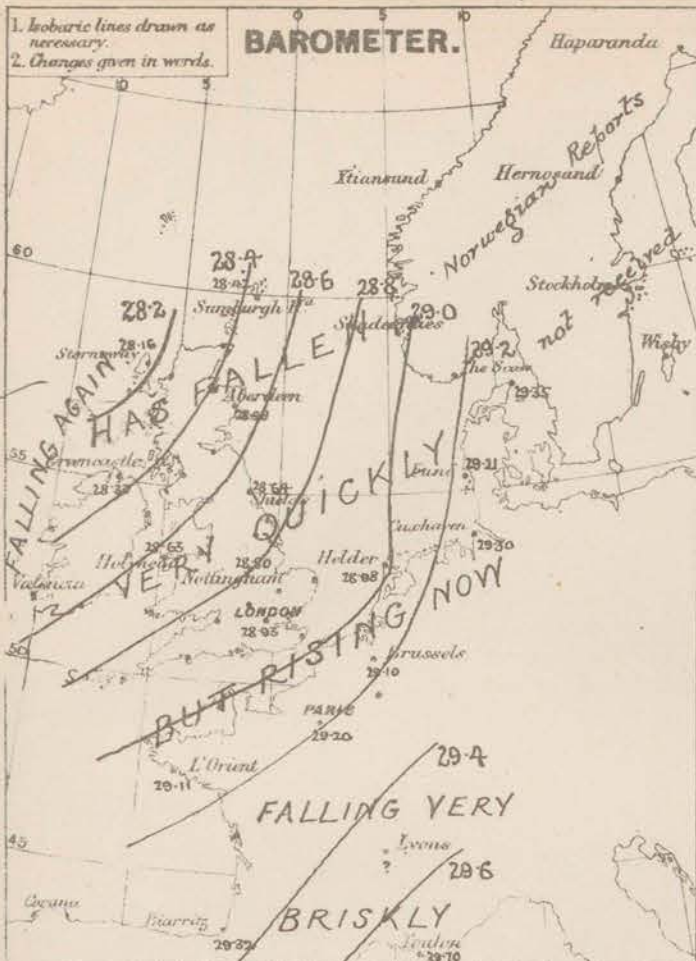
N.B.—The wind is said to "veer" when its direction changes *with the sun*, and to "back" when it shifts in the opposite direction.



# WEATHER CHARTS for 8 a.m. on Monday Nov. 12<sup>th</sup> 1877.

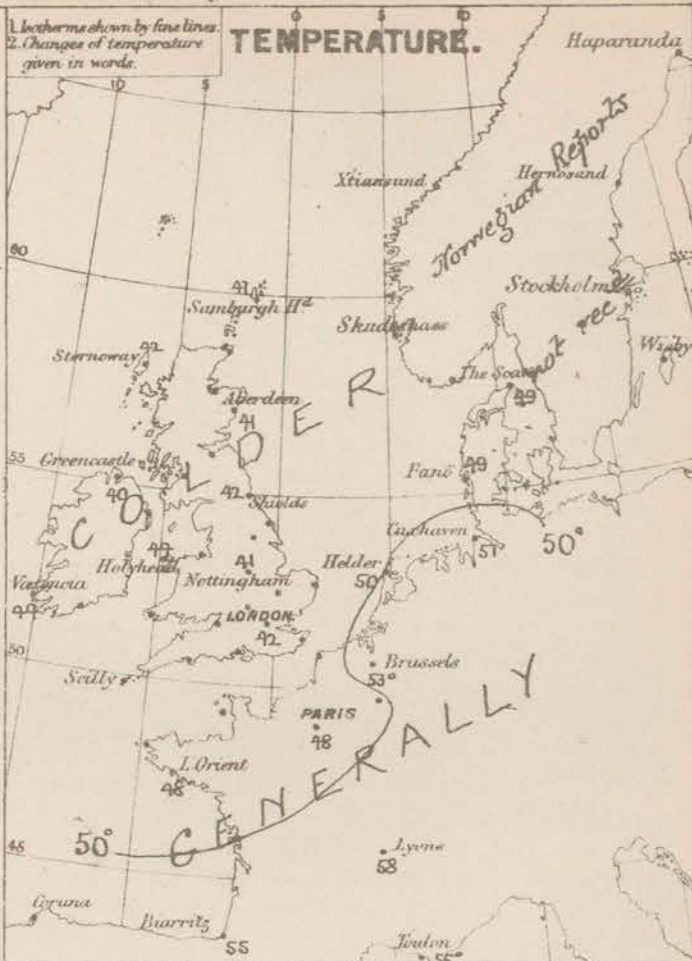
1. Isobaric lines drawn as necessary.
2. Changes given in words.

## BAROMETER.



1. Isotherms shown by fine lines.
2. Changes of temperature given in words.

## TEMPERATURE.



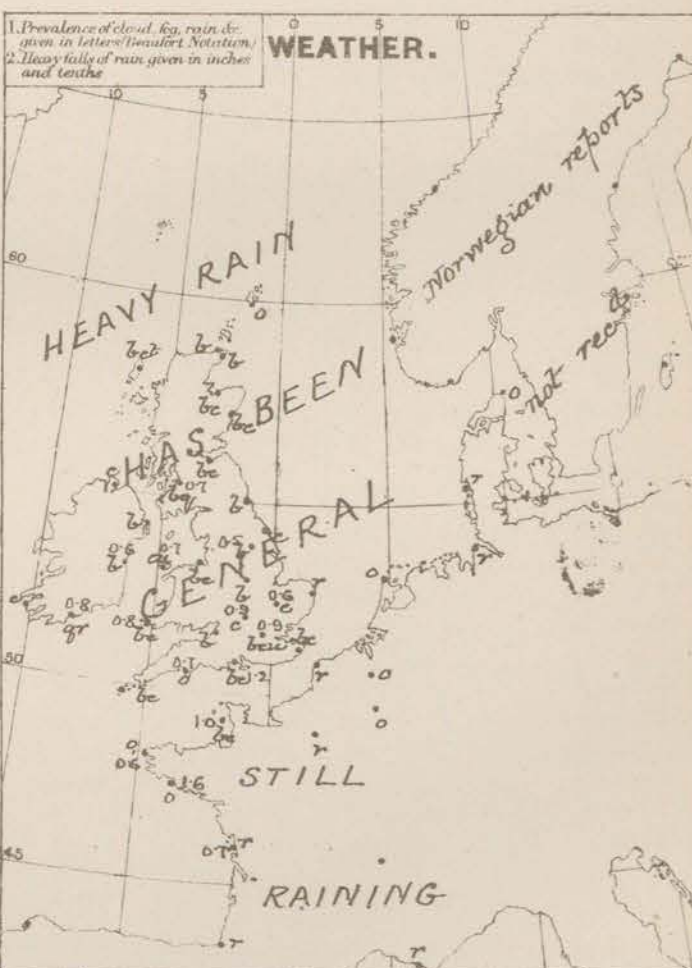
1. Arrows show with the wind force (1 to 10) or above 10.
2. Dark curved arrow shows apparent general motion of air.
3. Sea disturbances: rough, high.

## WIND & SEA.



1. Prevalence of cloud, fog, rain, etc. given in letters (B, C, D, E, F, G, H, I, J, K, L, M, N, O, P, Q, R, S, T, U, V, W, X, Y, Z).
2. Heavy falls of rain given in inches and tenths.

## WEATHER.



A dotted line is drawn round the coast, as the signals are still up.

**REMARKS.** Weather - Very unsettled conditions all over NW Europe, though at present a temporary improvement is noticed over England. Large quantities of rain fell in the W and S yesterday. 1.6 in at St. Orient, 1.2 in at Harriet Coast, 0.96 in at Jersey, 0.9 in at Cardiff, and in London, 0.8 in at Rotherhithe, 0.7 in at Rotherhithe, 0.7 in at Rotherhithe, 0.7 in at Rotherhithe, and 0.6 in at Rotherhithe. In all other places the fall was lighter. Thunder is reported at St. Mary's. Temperature has fallen everywhere. It is now 40° to 41° in Scotland, and over the island parts of England and Ireland and 45° to 46° on our S coast, and over France. Wind is now moderate S to W over England, strong from S and S W over the W and blows a heavy gale from S and the N. Very much S gales swept over the whole of the British Isles yesterday. Sea is very high both off our N coast, and in the Bay of Biscay, rough in the English and St. George's Channels, slight off our east coast. Barometrical indications. An unusually deep depression advanced over our islands from the Atlantic during the early hours of Sunday, and the barometer fell as low as 27.86 in. at St. Mary's by 9 p.m., and to 28.7 in. over London. A slight recovery has since taken place, but the readings over the British Isles, vary from 28.90 in. at Dover to 28.16 in. at St. Mary's. The mercury is again falling in the western W and NW, and the wind has backed considerably. Warnings. The following warning was sent to all our coasts yesterday: "Barometer again falling rapidly in west, and S wind rising. Most South Coast again. 9.10 a.m. Sunday. The signals have already been flying since Thursday or Friday."

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Meteorological Office. R. H. SCOTT. 116, Victoria Street, Westminster, S.W. Secretary.



# DAILY WEATHER REPORT

Nov 13<sup>th</sup> 1877.

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.		
Haparanda ...	30.02	37	S	4	r	30.14	+ .29	37	37	- 2	S	4	o	*	39	36	0.02	
Hernösand ...	29.86	41	S	6	f	29.97	+ .25	41	41	- 1	SE	6	r	*	*	*	0.35	
Stockholm ...	29.73	44	SSE	6	o	29.78	+ .04	43	42	o	SSE	6	r	*	*	*	-	
Wisby ...	29.79	44	SSE	6	o	29.75	- .03	44	43	+ 1	SSE	8	r	*	*	*	-	
Christiansund ...	29.03	55	E	4	c	29.28	+ .26	50	45	- 5	E	4	bc	2	57	46	-	
Skudesnaes ...	29.13	49	SSE	8	o	29.31	+ .40	45	44	- 6	SSE	2	r	5	50	?	0.55	
Oxö (Xtiansand) ...	29.28	49	SSE	6	o	29.37	+ .20	49	48	o	SE	6	o	5	50	46	-	
Skagen (The Seaw) ...	29.43	48	SSE	8	r	29.50	+ .15	49	48	o	SSE	7	r	7	50	45	0.20	
Fanö ...	29.31	49	S	6	r	29.45	+ .24	49	48	o	SSH	4	c	*	?	48	0.16	
Cuxhaven ...														*				
Sumburgh Head ...	28.59	47	SE	7	o	28.95	+ .53	47	45	o	SSE	6	b	7	48	43	0.02	
Stornoway ...	28.14	43	S	10	r	28.81	+ .65	45	43	+ 3	SH	5	ogb	6	46	42	0.55	
Thurso ...	28.41	43	S	7	r	28.90	+ .56	44	42	+ 4	S	2	c	2	46	38	0.01	
Wick ...	28.49	45	S	10	bc	28.97	+ .58	47	43	+ 2	SSH	5	bc	5	53	43	-	
Nairn ...	28.45	43	SH	8	c	28.95	+ .34	44	42	+ 1	SH	2	bc	2	46	40	-	
Aberdeen ...	28.64	44	S	9	o	29.06	+ .37	42	41	+ 1	SSH	1	b	4	47	41	0.06	
Leith ...	28.64	41	SSH	6	r	29.12	+ .61	46	43	+ 5	SSH	3	bc	*	48	39	0.18	
Shields ...	28.84	45	SH	6	o	29.24	+ .60	40	39	- 2	SSH	1	bc	2	47	39	-	
Scarborough ...	28.94	44	S	4	b	29.25	+ .52	41	40	- 2	SSH	2	c	2	46	39	-	
York ...	28.91	45	SSE	3	c	29.23	+ .48	37	37	- 4	SSE	1	f	*	48	35	-	
Nottingham ...	28.96	43	S	4	b	29.30	+ .50	36	?	- 5	Z	0	f	*	49	33	-	
Ardrossan ...	28.60	46	SSH	9	r	29.12	+ .67	49	45	+ 3	SH	3	b	3	49	46	0.19	
Greencastle ...	28.51	42	SSH	4	r	29.12	+ .79	40	39	o	SSH	2	b	*	45	37	0.15	
Donaghadee ...	28.67	41	SH	3	bc	29.19	+ .68	38	38	- 10	SSH	3	c	2	43	37	0.05	
Kingstown ...	28.74	46	SH	4	o	29.23	+ .65	47	44	+ 6	SH	2	c	3	49	40	0.01	
Holyhead ...	28.78	47	SH	7	ghr	29.24	+ .61	45	44	+ 1	SH	2	bc	2	49	42	0.16	
Liverpool (Bidston) ...	28.82	45	SE	3	c	29.24	+ .53	44	42	?	SH	2	bc	2	45	39	0.02	
Valencia ...	28.87	51	NH	4	o	29.34	+ .78	44	42	o	NH	3	bc	3	52	43	0.20	
Roche's Point... ..	28.78	44	SH	3	bc	29.32	+ .69	43	41	+ 3	SH	2	b	4	49	40	0.14	
Pembroke ...	28.83	50	SH	3	c	29.28	+ .56	51	48	+ 7	SSH	2	bc	4	51	?	0.05	
Portishead ...	28.92	46	SH	2	bc	29.28	+ .43	42	42	+ 2	SSH	2	bc	2	50	38	0.01	
Seilly ...																		
Plymouth ...	28.87	48	SH	4	b	29.33	+ .47	41	41	- 5	NNE	2	b	*	52	40	0.20	
Hurst Castle ...	28.95	52	S	6	cm	29.30	+ .38	44	43	- 5	SH	1	c	1	52	40	0.63	
Dover ...	29.13	?	SSH	5	c	29.31	+ .38	50	48	+ 4	SSH	5	cu	5	53	46	0.34	
London ...	29.07	47	S	3	c	29.28	+ .35	44	44	+ 2	SSH	1	c	*	53	40	0.04	
Oxford ...	*	*	*	*	*	29.30	+ .41	39	39	- 3	SH	1	f	*	51	37	0.03	
Cambridge ...	29.06	44	SSH	2	c	29.30	+ .43	40	40	- 3	SSE	1	c	*	52	35	-	
Yar mouth ...	29.09	47	SSH	5	cm	29.29	+ .42	46	45	+ 3	SSH	3	bc	3	50	43	0.44	
The Helder ...	*	*	*	*	*	29.38	+ .40	42	41	- 8	S	2	bc	*	*	*	0.04	
Cape Gris Nez ...	29.17	48	S	5	o	29.36	+ .82	46	45	- 2	S	5	c	3	52	45	0.16	
Jersey ...	29.04	48	SH	7	c	29.36	+ .33	49	47	+ 1	NH	4	c	6	51	46	0.18	
Brest ...	29.06	52	SH	5	o	29.43	+ .39	52	50	+ 4	SH	3	r	8	54	45	0.32	
L'Orient ...	29.20	45	SH	5	r	29.49	+ .38	48	48	o	NH	3	bc	7	52	41	0.43	
Roche fort ...	29.36	55	SH	6	bc	29.58	+ .30	52	50	+ 2	SH	5	o	5	59	45	0.16	
Biarritz ...	29.60	59	SH	3	b	29.65	+ .33	50	45	- 5	SH	5	r	6	61	45	0.12	
Corunna ...	*	*	*	*	*										*	*	*	
Brussels ...	*	*	*	*	*	29.45	+ .35	46	*	- 7	SSH	6	o	*	*	*	0.01	
Charleville ...	*	*	*	*	*	29.49	+ .23	44	*	- 2	SSE	6	o	*	*	*	*	
Paris ...	29.29	49	SSH	3	o	29.48	+ .28	45	44	- 3	S	3	bc	*	*	*	0.04	
Lyons ...	*	*	*	*	*	29.67	?	52	*	- 6	N	2	b	*	*	*	*	
Toulon ...	29.60	57	SSH	5	o	29.57	- .13	48	45	- 7	NH	3	o	5	59	54	0.04	

## YESTERDAY'S 2 P.M. REPORTS AND REMARKS.

	Bar.	Dry.	Wet.	Wind.	Wea.	Sea.		Bar.	Dry.	Wet.	Wind.	Wea.	Sea.		
Skudesnaes ...	28.99	50	49	SSE	8	r	7	Valencia .....	28.66	47	45	W	3	tg	4
Thurso .....	28.42	45	40	S	5	bc	3	Scilly .....							
Scarborough ...	28.88	46	42	SSH	4	c	3	London .....	29.03	52	47	S	2	bc	*
Greencastle ...	28.35	42	39	W	5	cu	*	Roche fort ...	29.32	54	52	SSH	7	bc	7
Holyhead .....	28.70	45	43	SSH	8	m	6								

Weather remains very unsettled, equally and showery. The barometer is rising unsteadily, and a S.W. gale has again set in over the Irish Channel.

## EXPLANATION OF COLUMNS.

**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.

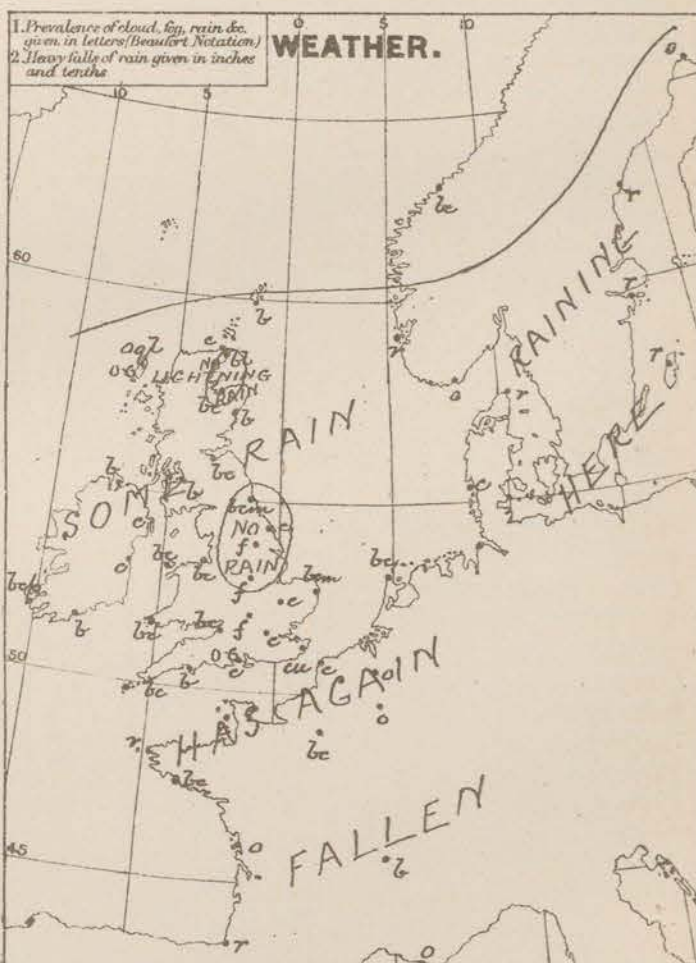
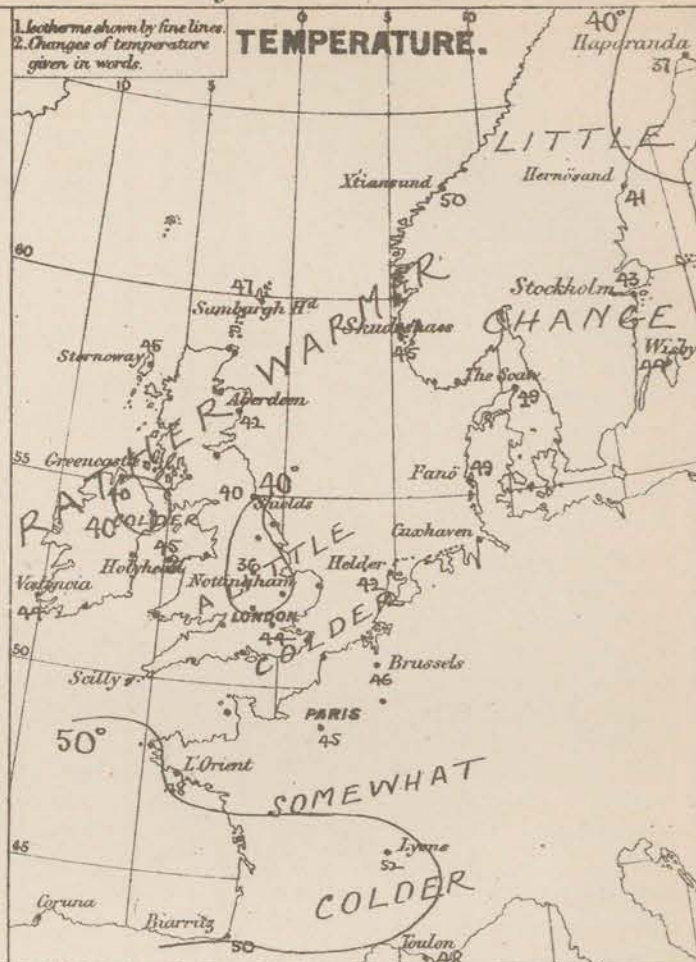
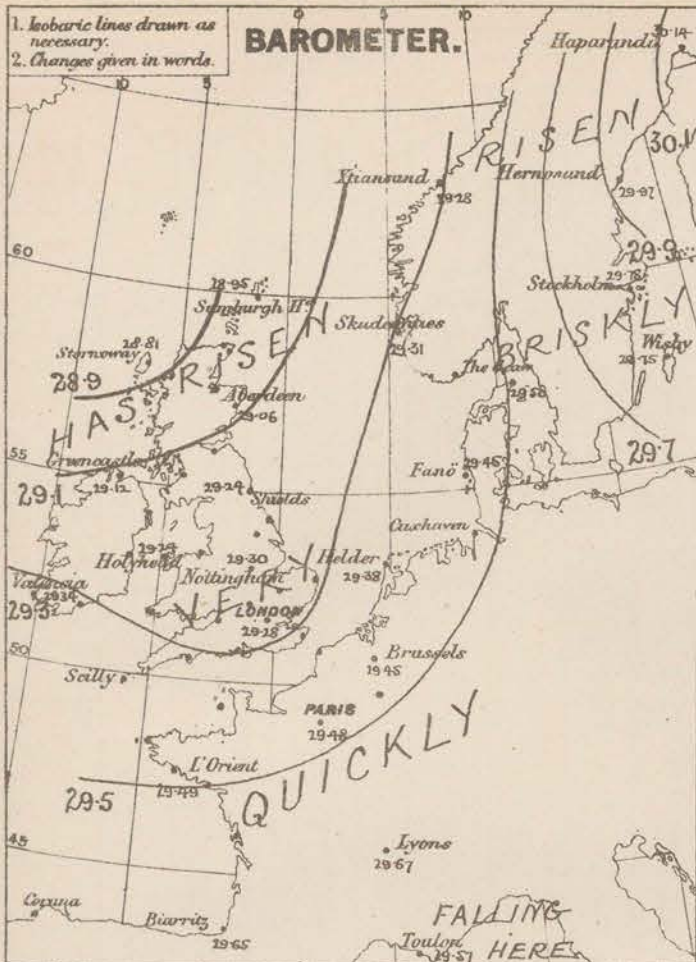
\* AN ASTERISK is inserted in all places for which information is not usually received.

† The evening observations are taken at 6 p.m. in our Islands, at 8 p.m. (Christiania time) in Sweden, Norway, and Denmark, and at 7 p.m. (Paris time) in France.

N.B.—The wind is said to "veer" when its direction changes with the sun, and to "back" when it shifts in the opposite direction.



# WEATHER CHARTS for 8 a.m. on Tuesday Nov. 13<sup>th</sup> 1877.



**REMARKS.** Weather, much quieter than of late. In many places the sky is quite clear, in others partially cloudy and at some of the W and N stations showers and still reported. Lightning is observed at Wick and Slieve Donard this morning, and was seen in several parts of England last night. Rain fell yesterday at all but our NE stations, and on our S and SE coasts the fall was considerable (0.3 in. to 0.6 in.) Temperature, again falls a little, except in the N. It is now higher in the NE of Scotland (47°) than in any of our other coasts. Over Central England it is 36° to 37°. Wind, light to moderate from WNW on our SW coasts, from SW in the E, and calm over Central England. It is fresh to strong from SW in the N. of Scotland, from S in Denmark, and SE at Sumburgh Head. A strong S gale was felt in the N. of Scotland yesterday. Sea is rough both at the S and N stations, moderate in the W, slight in the E. Barometrical indications. The deep depression noticed on Sunday and yesterday is travelling away N, and the barometer is rising fast generally. Local irregularities in pressure are noticed over England, but except at the N stations gradients are slight. Warnings. The signals are now all down. The above remarks were drawn up before the arrival of the Scandinavian reports.

Subscription for these Charts payable in advance to cover delivery. Delivery by hand 10/- per quarter, book post 5/- per quarter.

Meteorological Office,  
116, Victoria Street, Westminster, S.W.

R. H. SCOTT.  
Secretary.



# DAILY WEATHER REPORT

Nov<sup>r</sup> 14<sup>th</sup> 1877.

STATIONS.	† YESTERDAY EVENING.					8 A.M. TO DAY.										PAST 24 HOURS.		
	Barometer at 320 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 320 F. and Sea Level.	Difference from 8 a.m. yesterday.	Dry.	Wet.	Difference from 8 a.m. yesterday.	Dir.	Force. (0 to 12).			Max.	Min.		
Haparanda ...	29.23	37	S	2	o	29.29	+ .15	37	37	o	S	2	r	*	39	34	—	
Hernösand ...	?	42	?	6	r	29.12	+ .15	42	41	+ 1	SE	8	o	*	*	*	0.43	
Stockholm ...	29.99	44	S	6	o	29.06	+ .28	45	44	+ 2	SSE	4	o	*	*	*	0.04	
Wisby ...	29.91	45	SE	8	c	29.99	+ .24	45	44	+ 1	S	6	bc	*	*	*	—	
Christiansund ...	29.62	43	SW	1	bc	29.74	+ .46	45	41	— 5	SSE	1	bc	3	?	41	—	
Skudesnaes ...	29.63	49	SE	6	o	29.88	+ .57	48	47	+ 3	SSE	6	r	5	42	45	0.12	
Oxö (Xiansand) ...	29.70	47	SE	4	c	29.93	+ .56	47	46	— 2	SSE	4	r	3	48	45	—	
Skagen (The Seaw) ...	29.60	48	S	3	r	30.00	+ .50	47	46	— 2	SSW	2	c	2	?	43	0.32	
Fanö ...	29.81	46	S	4	c	29.99	+ .54	46	46	— 3	S	4	c	*	50	41	—	
Cuxhaven ...	29.68	45	SSE	1	bc	30.05	+ .55	44	44	— 4	S	1	o	*	50	41	—	
Sumburgh Head ...	29.36	48	S	5	bc	29.66	+ .71	45	42	— 2	SSW	3	c	3	50	38	—	
Stornoway ...	29.26	43	SSW	2	bc	29.64	+ .83	40	38	— 5	WSW	3	bc	4	46	26	0.08	
Thurso ...	29.32	41	SW	1	bc	29.70	+ .80	36	35	— 8	SSW	2	bc	3	53	35	—	
Wick ...	29.37	46	W	3	bc	29.73	+ .76	40	39	— 7	SW	2	bc	2	51	38	—	
Nairn ...	29.37	45	W	1	bc	29.72	+ .77	40	38	— 4	W	1	bc	1	50	37	—	
Aberdeen ...	29.41	44	SSW	1	bc	29.80	+ .74	37	36	— 5	SSW	1	bc	2	48	36	—	
Leith ...	29.46	47	SW	2	bc	29.85	+ .73	40	39	— 6	WSW	1	bc	*	50	39	—	
Shields ...	29.52	45	Z	0	f	29.94	+ .70	38	37	— 2	SW	1	f	2	49	38	—	
Scarborough ...	29.52	45	WSW	1	bc	29.96	+ .71	39	38	— 2	WSW	1	bc	2	47	39	—	
York ...	29.51	42	S	1	f	29.99	+ .76	34	34	— 3	S	1	f	*	48	31	0.01	
Nottingham ...	29.59	42	SSW	1	bc	30.03	+ .73	31	31	— 5	Z	0	f	*	49	30	0.01	
Ardrossan ...	29.46	49	SW	2	bc	29.81	+ .69	46	44	— 3	SSW	3	bc	3	51	46	—	
Greencastle ...	29.43	42	SW	2	bc	29.77	+ .65	36	35	— 4	SSE	1	c	*	50	34	0.02	
Donaghadee ...	29.52	42	SW	2	bc	29.87	+ .68	36	36	— 2	S	2	bc	1	47	34	—	
Kingstown ...	29.56	45	W	3	bc	29.91	+ .68	44	40	— 3	S	3	bc	2	49	42	0.03	
Holyhead ...	29.54	48	W	2	c	29.98	+ .69	45	43	o	SW	3	c	3	52	?	0.08	
Liverpool (Bidston) ...	29.54	46	W	1	c	29.96	+ .72	42	40	— 2	SSW	2	bc	1	52	40	0.06	
Valencia ...	29.66	47	WSW	4	bc	29.79	+ .45	51	48	+ 7	SSE	6	r	6	52	41	0.05	
Roche's Point... ..	29.63	46	WSW	3	bc	29.90	+ .58	50	48	+ 7	SW	5	o	4	50	38	—	
Pembroke ...	29.60	48	WSW	1	bc	29.97	+ .69	50	46	— 1	SSW	2	bc	3	53	46	0.16	
Portishead ...	29.54	46	WSW	3	bc	30.01	+ .73	42	41	o	Z	0	bc	1	55	38	0.01	
Scilly ...	29.66	45	WSW	1	o	30.02	+ .71	36	36	— 5	NNE	1	bc	*	51	34	0.29	
Plymouth ...	29.57	53	W	2	bc	30.05	+ .75	40	39	— 4	WSW	1	bc	1	54	32	0.03	
Hurst Castle ...	29.64	47	?	3	bc	30.02	+ .73	43	42	— 7	WSW	1	bc	1	52	42	0.02	
Dover ...	29.62	47	WSW	1	bc	30.05	+ .77	32	32	— 12	Z	0	f	*	48	32	—	
London ...	?	?	?	?	?	30.04	+ .74	35	35	— 4	Z	0	f	*	51	34	—	
Oxford ...	29.59	38	SW	2	bc	30.03	+ .73	32	32	— 8	SSW	1	bc	*	51	32	—	
Cambridge ...	29.55	46	WSW	1	bc	30.01	+ .72	39	39	— 7	WSW	1	f	2	50	37	0.02	
Yar mouth ...	?	?	?	?	?	29.99	+ .61	40	40	— 2	SSE	1	f	*	*	*	—	
The Helder ...	29.61	52	SW	4	bc	30.01	+ .65	45	45	— 1	SSE	1	bc	1	54	45	0.28	
Cape Gris Nez ...	29.70	50	W	3	bc	30.10	+ .74	48	45	— 1	? Z	? o	bc	0	55	46	0.09	
Jersey ...	29.76	54	WSW	4	bc	30.10	+ .67	52	50	o	WSW	2	o	5	54	45	0.08	
Brest ...	29.78	52	WSW	4	bc	30.14	+ .65	43	43	— 5	E	1	m	5	55	41	0.04	
L'Orient ...	29.80	55	WSW	4	c	30.12	+ .54	54	54	+ 2	ESE	1	bc	3	66	48	0.28	
Rocheport ...	29.87	55	WSW	6	r	30.17	+ .52	50	48	o	SSW	4	bc	6	55	48	0.63	
Biarritz ...	?	?	?	?	?	?	?	?	?	?	?	?	?	?	?	?	?	
Corunna ...	?	?	?	?	?	?	?	?	?	?	?	?	?	?	?	?	?	
Brussels ...	?	?	?	?	?	30.08	+ .63	45	?	— 1	SSW	6	bc	*	*	*	0.01	
Charleville ...	?	?	?	?	?	30.06	+ .57	41	?	— 3	SSE	3	o	*	*	*	?	
Paris ...	29.72	47	SW	1	bc	30.12	+ .64	41	?	— 4	SSW	2	f	*	*	*	—	
Lyons ...	?	?	?	?	?	30.10	+ .43	51	?	— 1	N	2	bc	*	*	*	?	
Toulon ...	29.73	50	WSW	5	bc	29.89	+ .32	50	46	+ 2	NE	1	bc	5	55	46	—	

## YESTERDAY'S 2 P.M. REPORTS AND REMARKS.

	Bar.	Dry.	Wet.	Wind.	Wes.	Sea.		Bar.	Dry.	Wet.	Wind.	Wes.	Sea.		
Skudesnaes ...	29.53	49	48	SSE	6	o	5	Valencia ....	29.53	48	44	W N W	3	bc	3
Thurso .....	29.85	45	46	W S W	2	o	3	Scilly .....	-	-	-	-	-	-	-
Scarborough ...	29.42	46	44	W S W	1	c	2	London .....	29.48	48	46	W N W	2	c	*
Greencastle ...	29.30	46	42	W S W	1	c	*	Rocheport ...	29.66	55	52	W N W	4	o	5
Holyhead .....	29.41	51	49	W	2	c	2								

Weather is still improving slowly; the barometer rising steadily, and the wind veering towards W. or WSW. over England.

## EXPLANATION OF COLUMNS.

**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.

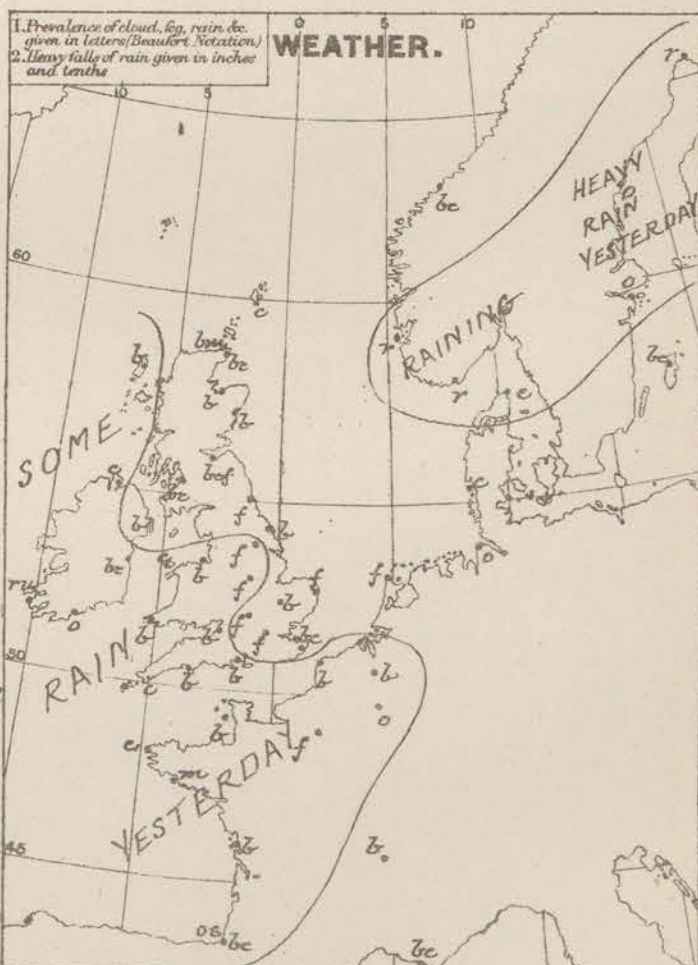
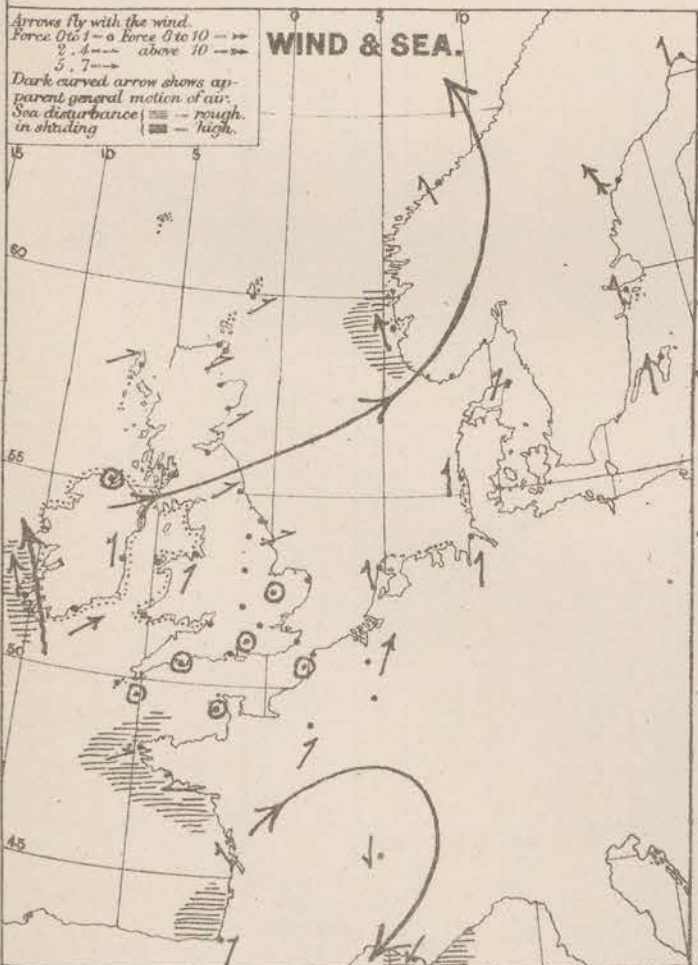
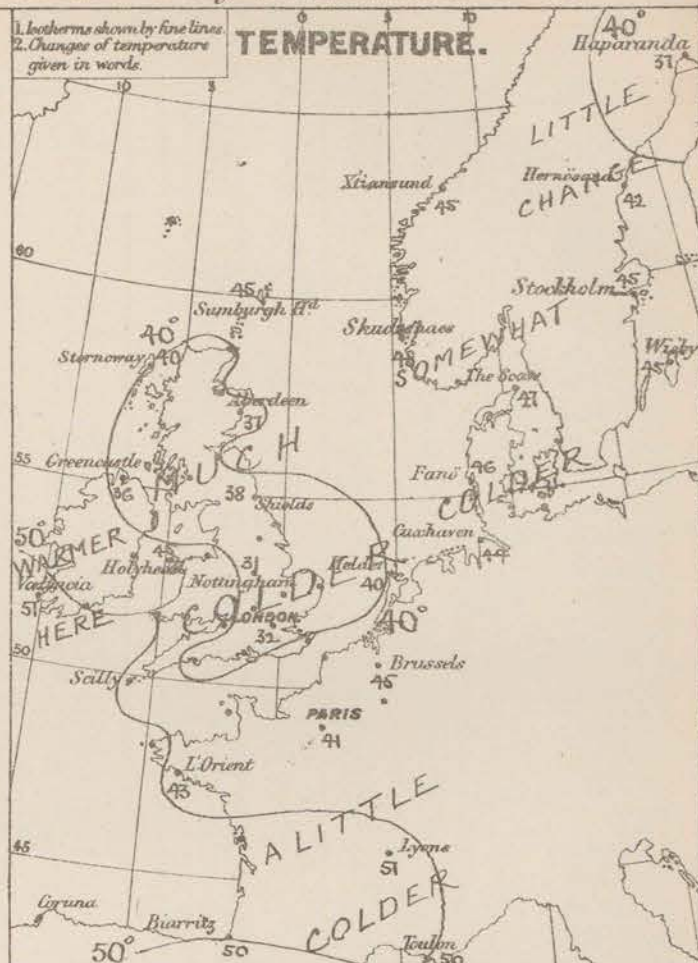
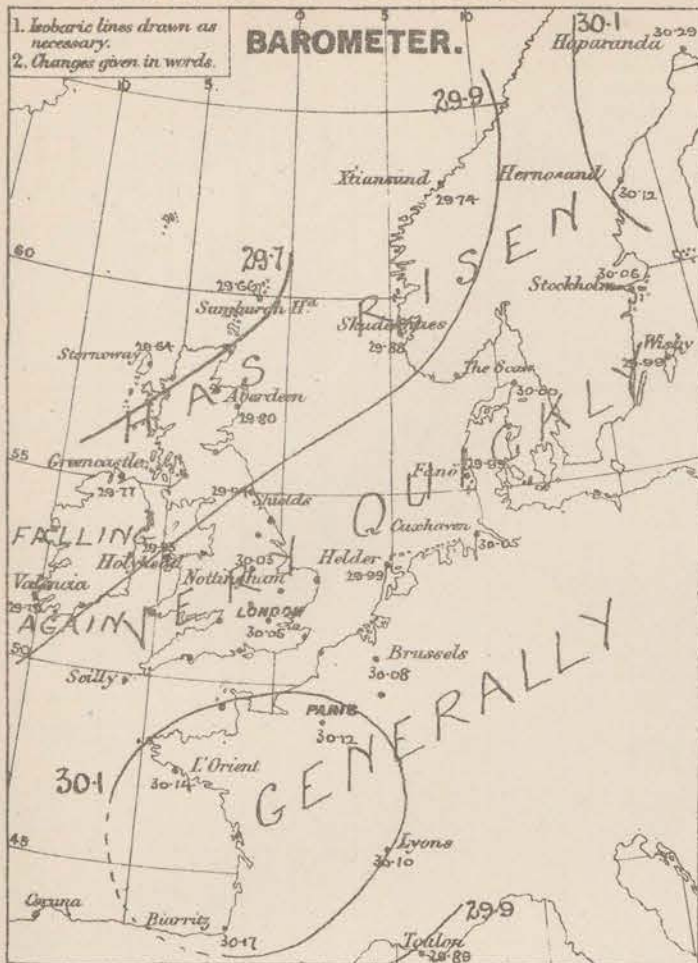
\* AN ASTERISK is inserted in all places for which information is not usually received.

† The evening observations are taken at 6 p.m. in our Islands, at 8 p.m. (Christiania time) in Sweden, Norway, and Denmark, and at 7 p.m. (Paris time) in France.

N.B.—The wind is said to "veer" when its direction changes with the sun, and to "back" when it shifts in the opposite direction.



# WEATHER CHARTS for 8 a.m. on Wednesday Nov. 14<sup>th</sup> 1877.



**REMARKS.** Weather. Very fine at present over Great Britain and France, with a great deal of fog at the English stations and N. Germany. In Ireland it has again become overcast, with rain and a threatening appearance at Valentia. A little rain fell in the W. and S yesterday, a more severe rain was seen at Nottingham, Leam, & both there and at Valentia, and lightning at Paulsboro and Jersey. Temperature has fallen very fast over England during the night, and is now as low as 31° at Nottingham, and 32° at Cambridge and in London. In the S. of Ireland, however, it has risen and Valentia is 20° warmer than Nottingham. Wind is light to moderate from the SW, in our N. and NW. coasts, calms in the Channel, and over France. At Valentia it has backed from WNW to SSE and increased to a strong breeze. There is again rough off the W. of Ireland, rather so is the Bay of Biscay, and so is the S. and E. Barometrical Expectations. A further rise of the barometer has taken place all over NW. Europe, amounting to between 0.7 in and 0.8 in over Great Britain. At Valentia the wind has ceased, and the morning is apparently falling again as though some new disturbances and approaching from the Atlantic. Warnings. The following warning has been sent to our W. coasts. Barometer rose checked in west, wind backed to S. and freshening, sea rising. *West South Coast 10-50 days. Wednesday.*

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Meteorological Office.  
116, Victoria Street, Westminster, S.W.  
R. H. SCOTT.  
Secretary.



# DAILY WEATHER REPORT

Nov 5 15<sup>th</sup> 1877.

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.		
Haparanda ...	30.15	37	S	4	7	30.02	-27	37	36	0	S	4	7	*	39	36	0.35	
Hernösand ...	30.15	41	S	2	2	30.09	-03	38	38	-4	S	2	0	*	*	*	0.04	
Stockholm ...	30.19	45	SSH	2	0	30.26	+20	43	41	-2	SSH	2	0	*	*	*	-	
Wisby ...	30.18	46	SH	6	0	30.30	+31	41	41	-4	SH	4	0	*	*	*	-	
Christiansund ...	29.91	40	E	1	0	29.52	-22	49	42	+4	SSE	4	0	3	?	36	-	
Skudesnaes ...	2.03	47	SSE	7	0	29.87	-01	48	48	0	S	9	7	8	48	46	0.32	
Oxö (Xtiansand) ...	30.13	48	SH	4	0	30.05	+12	48	46	+1	SSH	7	7	4	48	45	-	
Skagen (The Scaw) ...	30.21	48	SH	4	0	30.20	+20	45	44	-2	SSH	6	0	6	48	41	-	
Fanö ...	30.28	46	S	4	0	30.32	+33	48	47	+2	SSH	4	0	*	48	45	-	
Cuxhaven ...	30.23	4	SH	2	0	30.42	+37	40	40	-4	SSH	2	f	*	46	37	-	
Sumburgh Head ...	29.67	46	SSE	6	0	29.48	-18	49	44	+4	SH	8	0	7	50	44	0.23	
Stornoway ...	29.40	45	S	9	7	29.63	-01	46	44	+6	SSH	10	0	7	46	42	0.29	
Thurso ...	29.60	44	S	3	7	29.64	-06	45	44	+9	SSH	3	0	3	52	34	0.34	
Wick ...	29.62	45	S	7	7	29.69	-04	45	41	+5	SSH	2	0	2	53	39	0.11	
Nairn ...	29.63	44	Z	0	7	29.70	-02	47	45	+7	SH	4	0	3	56	37	0.05	
Aberdeen ...	29.77	47	S	7	7	29.82	+01	53	45	+14	SSH	3	0	4	54	36	0.07	
Leith ...	29.8	48	SH	4	0	29.92	+07	50	48	+10	SH	6	0	*	55	39	0.04	
Shields ...	29.98	45	S	4	0	30.07	+13	52	48	+14	SH	2	0	2	53	38	0.21	
Scarborough ...	30.00	43	SSH	2	0	30.10	+14	52	51	+13	SSH	2	0	2	52	38	0.09	
York ...	30.07	43	S	2	0	30.14	+15	51	50	+17	S	1	0	*	52	32	0.14	
Nottingham ...	30.12	53	SSH	2	0	30.20	+17	53	52	+22	SSH	2	0	*	53	31	0.13	
Ardrossan ...	29.74	51	S	5	7	29.99	+18	52	49	+6	SSH	4	0	4	55	46	0.57	
Greencastle ...	29.70	49	S	3	7	29.99	+22	47	45	+11	N	1	0	*	53	45	0.08	
Donaghadee ...	29.85	49	SSH	7	7	30.07	+20	45	44	+9	SSH	3	0	2	52	36	0.17	
Kingstown ...	29.78	52	S	6	0	30.12	+21	52	47	+8	SH	4	0	3	52	42	0.02	
Holyhead ...	29.89	52	SSH	7	0	30.14	+28	50	49	+5	SSH	2	0	2	55	45	0.32	
Liverpool (Bidston) ...	29.00	46	SSE	3	0	30.16	+20	51	50	+9	SSH	2	0	2	56	41	0.42	
Valencia ...	29.75	56	SH	5	7	30.13	+34	51	50	0	SSE	3	0	4	57	47	0.70	
Roche's Point... ..	29.82	50	SSH	7	7	30.17	+27	45	44	-5	NH	2	f	4	54	45	0.20	
Pembroke ...	29.99	54	S	5	0	30.16	+29	52	51	+4	SH	1	0	3	55	50	0.13	
Portishead ...	30.10	47	SSH	2	0	30.21	+20	54	53	+12	SSH	3	0	3	55	39	0.07	
Scilly ...																		
Plymouth ...	30.13	52	S	5	0	30.26	+22	55	55	+19	SH	1	0	*	54	36	0.26	
Hurst Castle ...	30.13	54	S	4	0	30.26	+21	54	54	+14	SSH	4	0	4	55	37	0.08	
Dover ...	30.26	46	SSH	3	0	30.37	+33	52	50	+9	SH	5	0	4	53	43	0.04	
London ...	30.23	49	SH	2	0	30.28	+23	50	50	+18	SH	3	0	*	54	32	0.04	
Oxford ...	*	*	*	*	*	30.25	+21	52	51	+17	SSH	2	0	*	52	34	0.08	
Cambridge ...	30.14	44	S	1	0	30.25	+22	50	49	+18	S	1	0	*	52	31	0.05	
Yar mouth ...	30.19	46	SSH	2	0	30.27	+26	48	48	+9	SSH	4	0	3	49	37	0.05	
The Helder... ..	*	*	*	*	*	30.34	+35	44	43	+4	S	2	0	*	*	*	-	
Cape Gris Nez ...	30.23	52	SH	3	0	30.39	+38	46	45	+1	S	4	0	3	55	45	-	
Jersey ...	30.26	52	SH	3	0	30.39	+29	51	50	+3	SH	3	0	3	55	?	0.01	
Brest ...	30.21	53	S	5	0	30.35	+25	54	54	+2	SSH	4	0	5	55	50	0.04	
L'Orient ...	30.27	52	SH	3	0	30.42	+28	55	54	+12	SSH	4	0	4	57	41	-	
Rocheport ...	30.28	52	Z	0	0	30.45	+33	46	45	-8	SE	3	0	3	55	41	-	
Biarritz ...	30.29	57	SSH	2	0	30.42	+25	57	57	+7	Z	0	0	4	57	37	0.20	
Corunna ...	*	*	*	*	*									*	*	*		
Brussels ...	*	*	*	*	*	30.47	+39	39	*	-6	SEW	6	f	*	*	*	-	
Charleville ...	*	*	*	*	*	30.46	+40	37	*	-4	SE	3	f	*	*	*	-	
Paris ...	30.33	43	SE	3	7	30.51	+39	37	37	-4	SE	2	f	*	*	*	-	
Lyons ...	*	*	*	*	*	30.44	+34	56	*	+5	E	2	off	*	*	*	-	
Toulon ...	30.05	54	NH	2	0	30.25	+36	61	52	+11	E	4	0	4	63	46	-	

## YESTERDAY'S 2 P.M. REPORTS AND REMARKS.

	Bar.	Dry.	Wet.	Wind.	Wes.	Sea.		Bar.	Dry.	Wet.	Wind.	Wes.	Sea.
Skudesnaes ...	30.00	48	46	SSE	6	0	Valencia .....	29.72	53	52	SSE	8	7
Thurso .....	29.72	45	42	S	3	0	Scilly .....						
Scarborough ...	30.04	45	43	SH	2	0	London .....	30.16	50	45	SSH	1	0
Greencastle ...	29.71	45	43	S	3	0	Rocheport ...	30.24	49	44	NH	1	0
Holyhead .....	29.93	50	47	SSH	5	0							

The barometer is now falling in all parts of Ireland and at Holyhead, but is rising on our E. and NE. coasts. The wind has increased to a fresh gale from SSE. at Valencia with continuous rain and a high sea, and has become S on all our western and northern coasts.

## EXPLANATION OF COLUMNS.

**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 our Islands, at 8 p.m. (Christiania time) in Sweden, Norway, and Denmark, and at 7 p.m. (Paris time) in France.

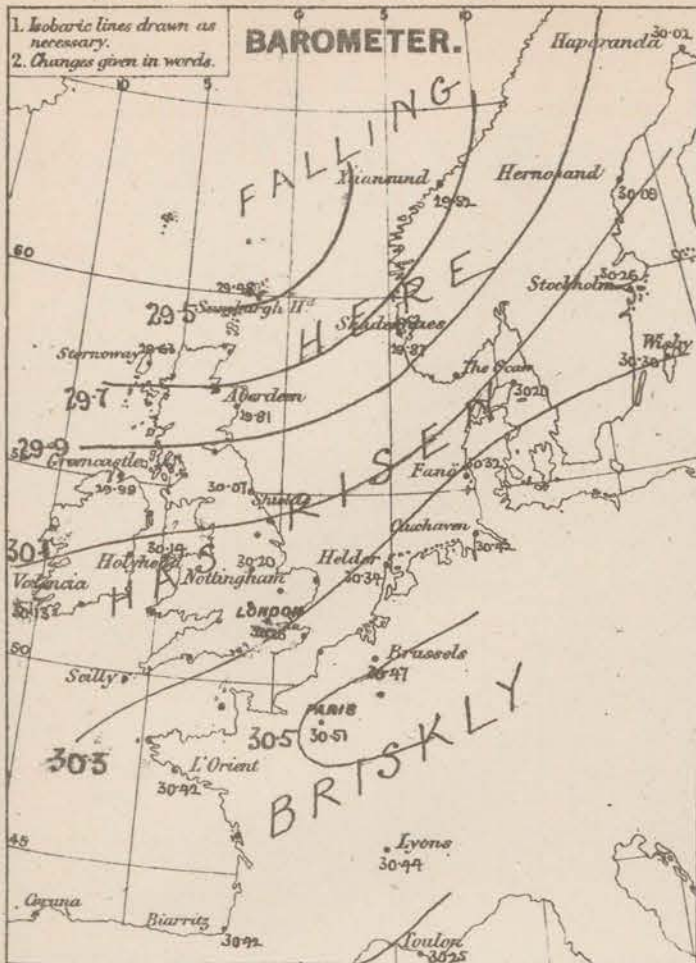
N.B.—The wind is said to "veer" when its direction changes with the sea, and to "back" when it shifts in the opposite direction.



# WEATHER CHARTS for 8 a.m. on Thursday Nov 15<sup>th</sup> 1877.

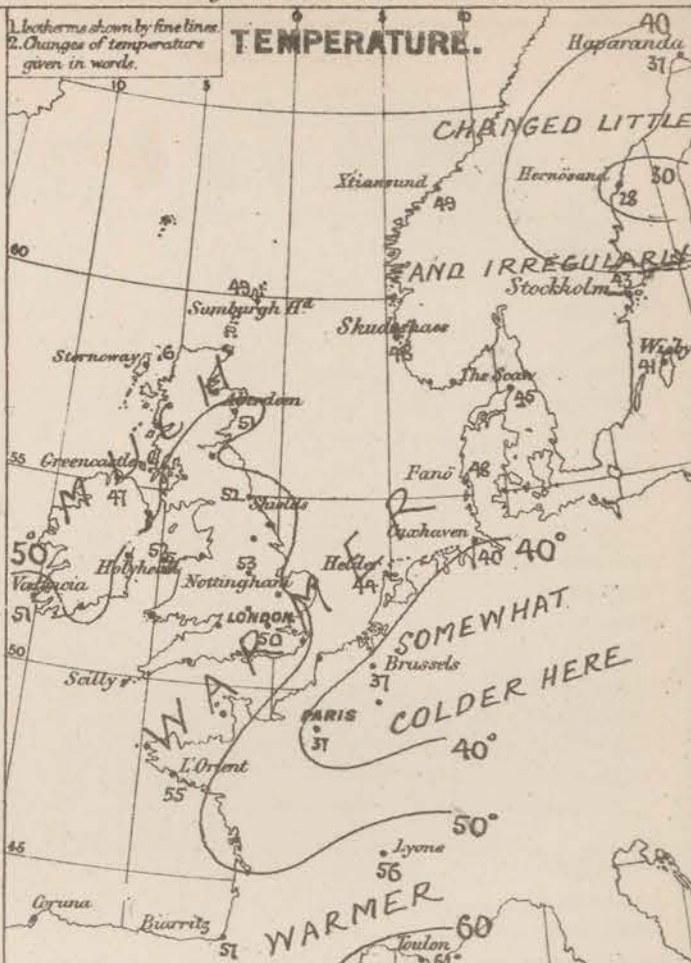
1. Isobaric lines drawn as necessary.
2. Changes given in words.

## BAROMETER.



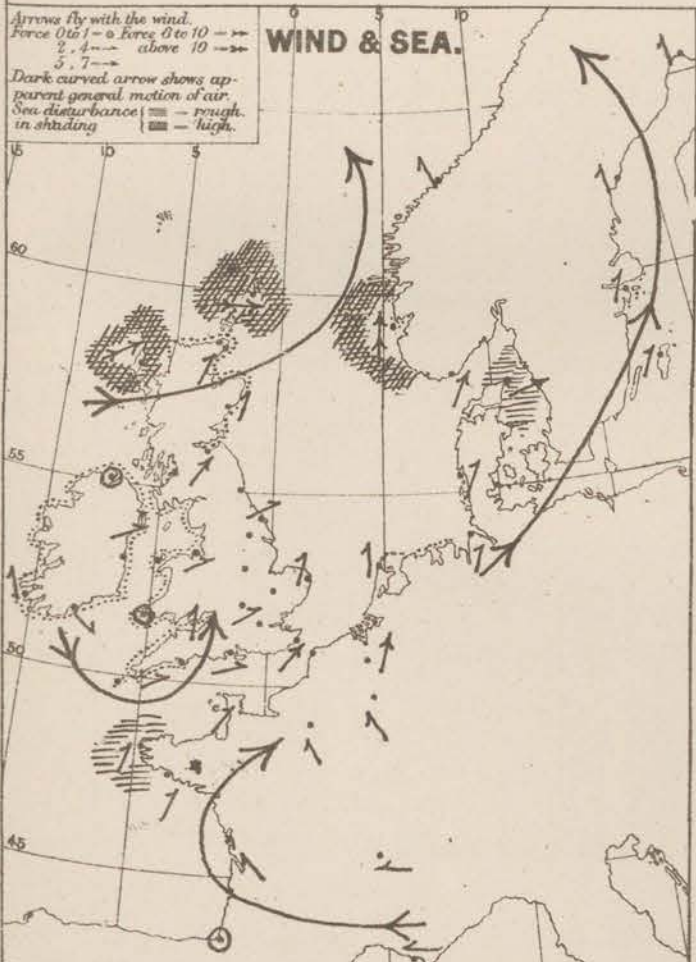
1. Isotherms shown by fine lines.
2. Changes of temperature given in words.

## TEMPERATURE.



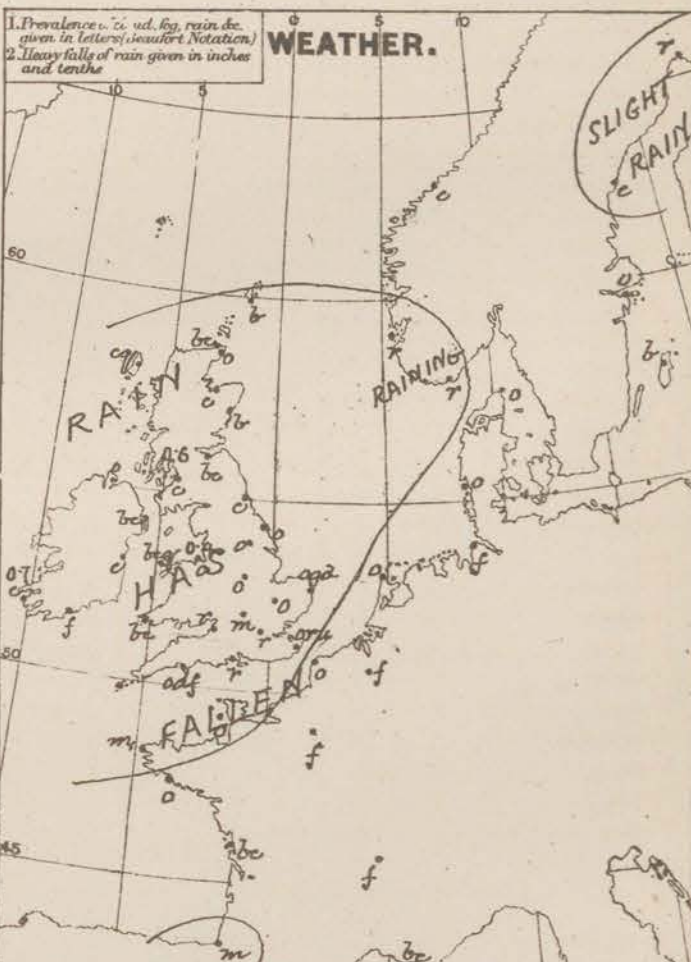
1. Arrows fly with the wind. Force 0 to 10 — 1 to 10 — above 10 — 5, 7 —
2. Dark curved arrow shows apparent general motion of air. Sea disturbance: — rough, in shading — high.

## WIND & SEA.



1. Prevalence of wind, rain, &c. given in letters (see note).
2. Heavy falls of rain given in inches and tenths.

## WEATHER.



Note. A dotted line is drawn round the coast where the signals are up.

**REMARKS.** Weather. Dull cloudy and unsettled all over the country and North Sea, rain in many places, and fog in the S. Rain has fallen very generally; — 0.7 in at Valentia, 0.6 in at Ayr, 0.4 in at S. York, and a quarter of an inch in the Hebrides and Shetlands; elsewhere the fall has been slight. A heavy hail was seen at Jersey last night. Temperature has risen rapidly over England, as much as 17° at York and Oxford, 18° in London, and 22° at Nottingham. It is now high generally, ranging from 45° to 50° in Scotland, and 50° to 55° over England, Ireland, and the greater part of France. Wind blows a gale from NW at Stornoway, from W. at Lumburg, N. at S. of Dover, and from S. in the S. of Dover. It is moderate from W. to SW, but at Valentia it has backed to SSE since 6 a.m. It blew a fresh to strong gale from the S. and W. and N. coasts during yesterday afternoon or evening. Sea is very high in the N., moderate in the W., slight & smooth in the E. and S. Barometrical indications. A rather deep depression appears to have passed in an ENE direction over our station N. station during the night, and is now apparently moving towards the N. parts of Scandinavia. In its rear the barometer rose very quickly, but the shift of wind at Valentia, makes it very probable that a second depression is advancing towards us from the Atlantic. Windings. The S. coast was hazy at 10 a.m. N. station yesterday morning, & at the E. coast of Scotland in the evening.

Subscription for these charts payable in advance to cover delivery. Delivery by hand 1/4 per quarter, book post 5/ per quarter.



# DAILY WEATHER REPORT Nov<sup>r</sup> 16<sup>th</sup> 1877.

STATIONS.	† YESTERDAY EVENING.						8 A.M. TO DAY.										PAST 24 HOURS.		
	Barometer at 32° F. and Sea Level.	Temp. in shade.	Wind.		Weather.	Barometer. Reading at 32° F. and Sea Level.	SHADE TEMP.			WIND.		Weather.	Sea. (0 to 9.)	SHADE TEMP.		Amount of Rainfall.			
			Dir.	Force. (0 to 12).			Dry.	Wet.	Difference from 8 a.m. yesterday.	Dir.	Force. (0 to 12).			Max.	Min.				
Haparanda ...	29.62	37	E N E	8	r	29.60	- .42	38	37	+	1	SSH	6	o	*	39	36	0.24	
Hernösand ...	29.82	42	S	2	b	29.36	- .52	43	41	+	5	SSH	6	o	*	*	*	0.04	
Stockholm ...	30.12	46	SSH	6	o	29.90	- .26	45	43	+	2	S	6	c	*	*	*	-	
Wisby ...	30.31	44	SSH	6	b	30.13	- .17	44	42	+	3	SSH	6	b	*	*	*	-	
Christiansund ...	29.59	47	SSH	6	r	?	?	45	43	-	4	SE	2	bc	6	48	41	0.32	
Skudesnaes ...	29.96	49	SSE	6	o	29.68	- .19	48	44	o	SSH	9	o	7	?	48	0.32		
Oxö (Xtiansand) ...	30.09	48	SSH	6	o	29.73	- .32	51	50	+	3	SSH	9	o	6	?	39	-	
Skagen (The Seaw) ...	30.16	49	SSH	4	o	29.84	- .36	49	49	+	4	SSH	8	o	8	50	45	-	
Fanö ...	30.17	48	SSH	6	o	30.05	- .27	50	50	+	2	SSH	6	r	*	50	46	0.04	
Cuxhaven ...	30.41	51	SSH	1	c	30.22	- .20	46	45	+	6	SSH	3	o	*	46	39	-	
Sumburgh Head																			
Stornoway	29.56	44	SSH	4	r	29.66	+.03	37	38	-	7	SSH	5	bc	6	52	38	0.60	
Thurso ...																			
Wick ...	29.46	49	SSH	6	o	29.71	+.02	42	39	-	3	SSH	9	r	7	53	38	0.02	
Nairn ...	29.60	47	Z	0	r	29.75	+.05	44	42	-	3	W	1	o	1	57	43	0.22	
Aberdeen ...	29.83	48	S	4	b	29.79	- .02	45	40	-	6	SSH	3	b	3	57	43	0.02	
Leith ...	29.87	51	SSH	4	c	29.95	+.03	45	43	+	5	SSH	5	bc	*	60	43	0.05	
Shields ...	30.04	54	SSH	3	cm	30.08	+.01	48	44	-	4	W	3	b	2	56	47	-	
Scarborough ...	30.11	51	SSH	1	bc	30.10	00	50	46	-	2	W	2	c	2	57	50	-	
York ...	30.15	50	S	1	o	30.15	+.01	49	47	-	2	W	2	bc	*	59	47	-	
Nottingham ...	30.17	56	SSH	2	o	30.13	- .07	51	48	-	2	SSH	2	o	*	58	51	-	
Ardrossan ...	29.96	54	S	5	o	30.01	+.02	48	45	-	4	SSH	4	bc	4	57	48	0.15	
Greencastle ...	29.74	52	SSH	3	o	30.03	+.04	41	40	-	6	SSH	3	o	*	56	40	0.14	
Donaghadee ...	29.59	52	S	6	o	30.09	+.02	42	41	-	3	W	5	c	4	55	42	0.06	
Kingstown ...	29.95	55	SSE	4	c	30.21	+.09	48	43	-	4	?	3	b	2	59	47	-	
Holyhead ...	30.02	54	SSH	5	d	30.20	+.06	50	45	o	W	5	bc	4	56	49	0.02		
Liverpool (Bidston) ...	30.07	58	S	3	c	30.18	+.02	50	46	-	1	W	4	o	4	60	50	0.01	
Valencia ...	29.93	56	SSH	8	rg	30.30	+.17	47	44	-	4	W	4	b	4	59	45	0.08	
Roche's Point ...	30.06	50	SSH	5	f	30.29	+.12	45	43	o	SSH	1	b	3	56	45	0.09		
Pembroke ...	30.13	55	SSH	5	f	30.27	+.11	52	48	-	2	SSH	2	c	3	55	?	0.02	
Portishead ...	30.21	56	SSH	5	r	30.23	+.02	51	50	-	3	W	5	bc	4	59	49	0.10	
Scilly ...																			
Plimouth ...	30.27	55	Z	0	o	30.29	+.03	52	52	-	3	SSH	2	bc	*	59	?	0.22	
Hurst Castle ...	30.25	56	SSH	3	r	30.24	- .02	55	55	+	1	SSH	3	o	3	?	52	0.13	
Dover ...	30.35	53	SSH	5	o	30.28	- .09	54	53	+	2	SSH	3	c	3	54	51	0.07	
London ...	30.29	55	SSH	2	o	30.23	- .05	56	55	+	6	SSH	3	o	*	56	50	0.04	
Oxford ...	*	*	*	*	*	30.21	+.04	55	54	+	3	W	2	o	*	56	40	-	
Cambridge ...	30.24	54	S	1	r	30.17	- .08	55	55	+	5	SSH	2	c	*	56	49	0.01	
Yar mouth ...	30.28	52	SSH	3	cm	30.17	- .10	54	54	+	6	SSH	3	cm	2	55	47	0.01	
The Helder ...	*	*	*	*	*	30.18	- .16	50	50	+	6	SSH	3	o	*	*	*	0.04	
Cape Gris Nez ...	30.38	50	SSH	4	o	30.28	- .11	54	54	+	8	SSH	5	o	4	?	46	0.04	
Jersey ...	30.39	55	SSH	3	o	30.35	- .04	54	54	+	3	SSH	3	f	3	56	?	0.03	
Brest ...	30.38	55	SSH	4	m	30.38	+.03	55	55	+	1	W	1	m	4	55	54	0.08	
L'Orient ...	30.42	54	SSH	2	o	30.40	- .02	55	55	o	W	2	m	4	59	52	-		
Rochefort ...	30.41	55	SSH	1	b	30.41	- .04	59	59	-	7	SE	1	m	3	61	?	-	
Biarritz ...	30.42	55	SSH	1	b	30.43	+.01	45	45	-	12	SSH	1	b	3	57	36	-	
Corunna ...	*	*	*	*	*											*	*	*	
Brussels ...	*	*	*	*	*	30.34	- .13	44	*	+	5	SSH	6	o	*	*	*	-	
Charleville ...	*	*	*	*	*	30.38	- .08	34	*	-	3	SSE	3	f	*	*	*	*	
Paris ...	30.47	44	SE	2	f	30.43	- .08	37	37	o	S	3	f	*	*	*	-		
Lyons ...	*	*	*	*	*	30.43	- .01	57	*	-	5	NE	2	m	*	*	*	*	
Toulon ...	30.30	51	SSH	3	b	30.25	- .05	63	52	+	2	E	1	b	3	66	61	-	

## YESTERDAY'S 2 P.M. REPORTS AND REMARKS.

	Bar.	Dry.	Wet.	Wind.	Wea.	Sea.		Bar.	Dry.	Wet.	Wind.	Wea.	Sea.		
Skudesnaes ...	30.02	49	48	S	6	f	5	Valencia .....	30.00	54	53	SSE	7	gom	6
Thurso .....	29.77	49	46	SW	4	c	4	Scilly .....							
Scarborough ...	30.15	54	51	SW	2	bc	2	London .....	30.30	55	54	SW	2	od	*
Greencastle ...	29.94	50	48	SSE	2	o	*	Rochefort ...	30.43	53	50	SE	1	bc	3
Holyhead .....	30.12	54	53	SW	4	m	3								

The barometer is now falling briskly in Ireland, and the wind has risen to a gale from SSE. at Valencia with gloomy, misty weather. In the N.E. E. and S. the barometer rises. Warnings extended to our N.E. coasts.

## EXPLANATION OF COLUMNS.

**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.

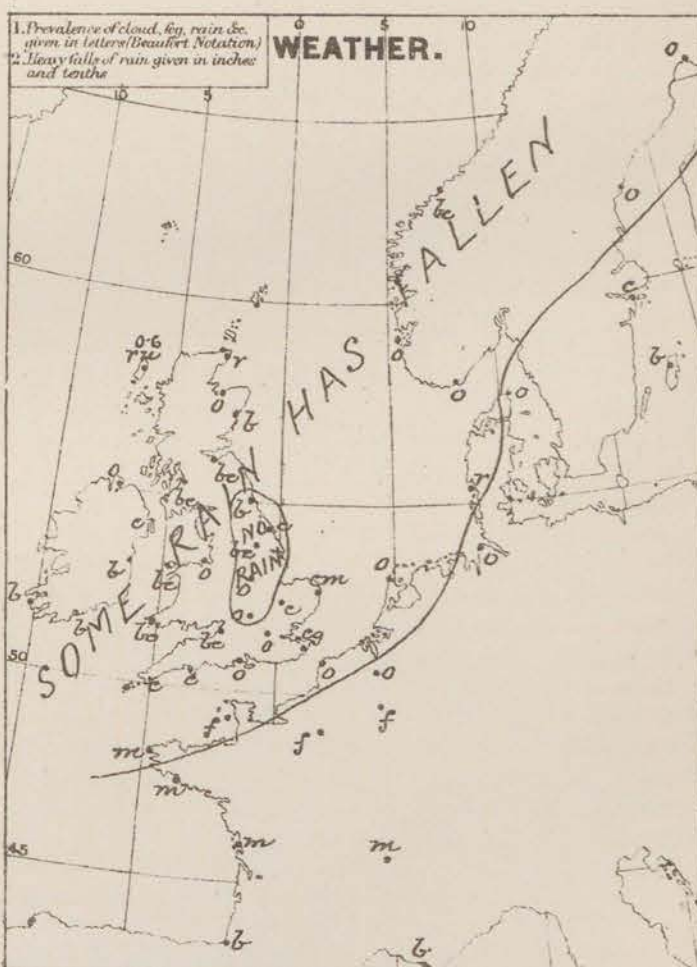
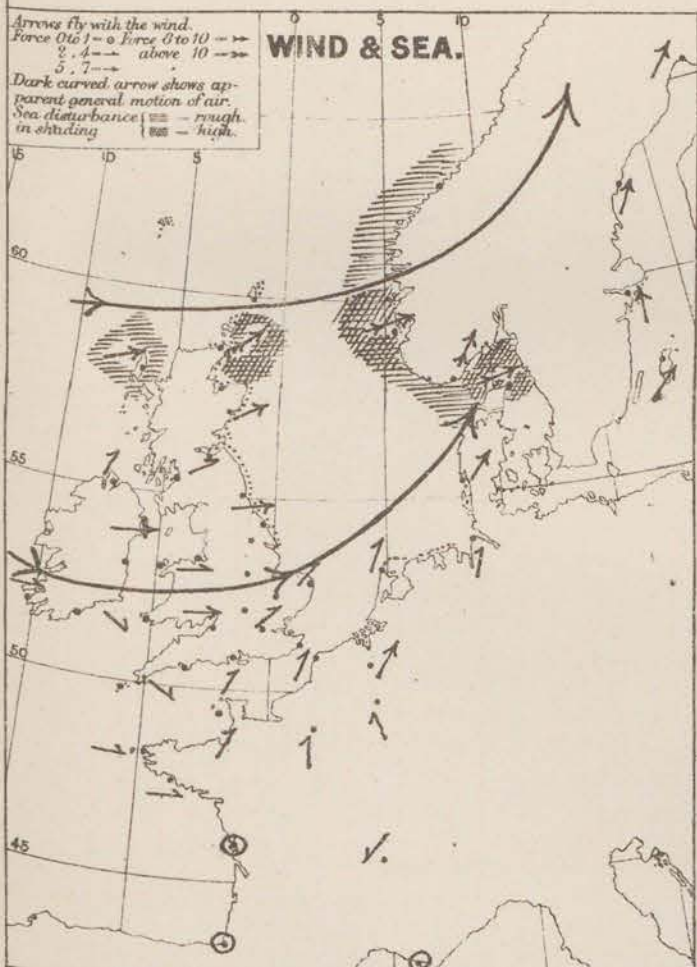
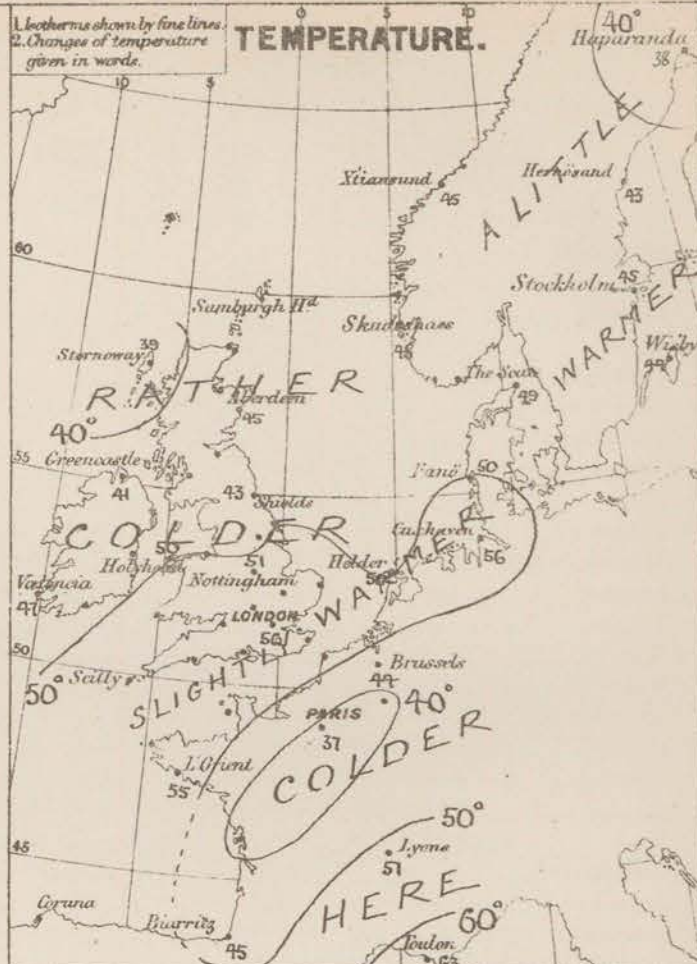
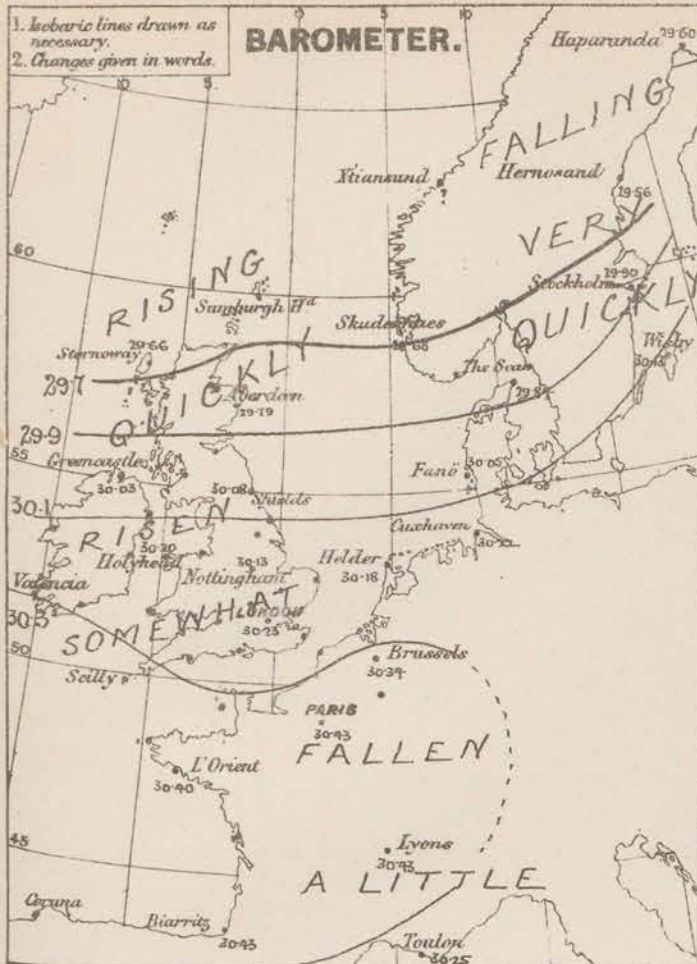
\* AN ASTERISK is inserted in all places for which information is not usually received.

† The evening observations are taken at 6 p.m. in our Islands, at 8 p.m. (Christiania time) in Sweden, Norway, and Denmark, and at 7 p.m. (Paris time) in France.

N.B.—The wind is said to "veer" when its direction changes with the sun, and to "back" when it shifts in the opposite direction.



# WEATHER CHARTS for 8 a.m. on Friday Nov<sup>r</sup> 16<sup>th</sup> 1877.



**REMARKS.** *Weather.* Still very unsettled. It is overcast and rainy in the extreme N. of our Islands, and on the E. shores of the North Sea. On our W. and SW. coasts it is clear at present, while haze prevails over the Bay of Biscay, and off our France. A little rain fell in most parts of our Islands yesterday. *Temperature* has fallen to the N. of the British Isles, and the SW. of France, but risen in the S. of England, where it is only high. In London it is now 56°, or 17° higher than at Stornoway, and from 19° to 22° warmer than at Paris and Chambery. *Wind* blew with great violence from W. in the extreme N. of Scotland during the night, a strong gale was felt on the remainder of N. Britain, and moderate to fresh gales at many of our W. stations. The reports at Stornoway describe the gale as a destructive hurricane. Spun till 1 a.m., and thick as an impenetrable storm. 1 a.m. till 4 a.m. A strong gale from NW is still blowing at Wick, and a fresh gale at the Orkneys, but over Ireland, England, and the Channel, is light to moderate W. breeze is reported. Sea runs high in the N. but is moderate or slight elsewhere. *Barometrical* indications. A small but very deep depression appears to have passed along our N. coasts during the night, and since its passage the mercury has risen rapidly. It is also rising briskly in Ireland, and the W. of England this morning, but in all other parts of the Kingdom it is falling. In Denmark it is falling fast. *Warnings.* over SW. W. and N. coasts were all examined on Wednesday, and the NE coasts of England yesterday afternoon.



# DAILY WEATHER REPORT NOV 17 1877.

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 5.)	SHADE TEMP.		Amount of Rainfall.	
			Dir.	Force. (0 to 15).		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 15).			Max.	Min.		
Maparanda ...																		
Hernösand ...	29.32	44	SSW	2	b	29.46	-10	42	36	-1	N	4	bc	*	48	38	-	
Stockholm ...	29.69	46	SSW	6	b	29.75	-15	44	40	-1	SSW	6	bc	*	48	38	-	
Wienby ...	29.94	47	SSW	8	o	29.97	-16	44	41	0	N	8	b	*	48	38	0.04	
Christiansund ...	29.32	40	N	9	s	29.62	?	40	40	-5	SSW	9	r	7	45	37	0.95	
Skudesnaes ...	30.20	47	SSW	9	r	30.06	+38	46	41	-2	SSW	6	c	5	48	45	-	
Oslo (Kjelsand) ...	29.91	47	SSW	6	b	30.05	+32	44	41	-7	N	4	b	3	42	41	-	
Skagen (The Sæw) ...	29.4	46	N	6	b	30.02	+18	46	45	-3	SSW	4	c	7	42	41	0.02	
Faro ...	30.21	50	N	4	c	30.26	+21	47	45	-3	N	4	c	*	42	46	0.12	
Cuxhaven ...	30.19	4	SSW	3	r	30.35	+13	42	42	-4	SSW	1	b	*	48	39	0.05	
Sombrugh Head ...																		
Stornoway ...	29.84	43	N	7	cgr	29.96	+30	42	41	+3	SSW	4	cp	5	46	38	0.34	
Thurso ...	29.78	42	SSW	4	bc	29.98	+32	41	41	-1	SSW	1	p	7	47	38	0.37	
Wick ...	29.86	42	N	6	o	30.01	+30	44	41	+2	SSW	3	c	2	49	38	0.18	
Nairn ...	29.92	42	N	1	bc	30.05	+30	44	42	0	N	1	c	1	45	37	0.24	
Aberdeen ...	29.99	43	SSW	3	b	30.12	+33	39	38	-6	S	1	b	1	49	38	-	
Leith ...	30.12	44	SSW	4	b	30.21	+26	44	42	-1	SSW	4	b	*	50	41	0.09	
Shields ...	30.21	46	N	4	b	30.30	+22	42	39	-6	SSW	2	bm	1	51	40	-	
Scarborough ...	30.28	46	SSW	2	b	30.33	+23	41	40	-9	SSW	2	bc	2	51	40	-	
York ...	30.30	47	N	3	b	30.37	+22	41	40	-8	SSW	2	c	*	53	39	-	
Nottingham ...	30.39	43	N	1	b	30.43	+30	37	37	-14	SSW	1	o	*	53	35	-	
Ardrossan ...	30.16	48	SSW	4	cp	30.27	+20	48	46	0	SSW	2	bc	3	51	44	0.25	
Greencastle ...	30.15	44	N	3	b	30.18	+15	40	39	-1	SSW	2	b	*	49	39	0.05	
Donaghadee ...	30.28	43	N	3	b	30.28	+19	38	38	-4	SSW	2	o	1	47	37	-	
Kingstown ...	30.35	48	S	2	bc	30.34	+13	44	42	-4	SSW	1	b	1	50	43	-	
Holyhead ...	30.34	49	SSW	3	c	30.35	+15	46	43	-4	SSW	2	b	2	51	44	-	
Liverpool (Bidston) ...	30.33	46	SSW	3	b	30.38	+20	43	42	-7	SSW	2	c	2	51	42	-	
Valencia ...	30.41	47	N	3	bc	30.31	+01	49	46	+2	SSW	4	bc	4	53	43	0.05	
Roehe's Point ...	30.41	49	N	3	bc	30.36	+07	46	44	+1	SSW	2	bc	3	52	46	0.02	
Pembroke ...	30.42	51	SSW	1	b	30.38	+14	50	46	-2	SSW	1	bc	2	53	48	-	
Portishead ...	30.38	47	N	3	b	30.41	+18	41	40	-10	N	1	c	2	54	39	-	
Seilly ...																		
Plymouth ...	30.47	47	NNW	1	b	30.44	+15	37	36	-15	NNE	1	bm	*	55	36	-	
Hurst Castle ...	30.38	58	NNW	1	b	30.42	+18	40	40	-15	NE	1	m	1	?	46	-	
Dover ...	30.32	50	NNE	3	b	30.45	+17	44	42	-10	NNE	1	bc	1	57	43	-	
London ...	30.42	50	N	2	bm	30.45	+22	35	35	-21	Z	0	cm	*	59	31	-	
Oxford ...	*	*	*	*	*	30.43	+22	38	37	-17	Z	0	f	*	56	35	-	
Cambridge ...	30.41	43	NNW	1	b	30.43	+26	35	35	-20	SSW	1	c	*	58	34	-	
Yar mouth ...	30.34	47	NNW	2	bm	30.41	+21	38	37	-16	N	2	bm	2	57	37	-	
The Helder ...	*	*	*	*	*	30.39	+21	50	46	0	N	1	b	*	*	*	0.04	
Cape Gris Nez ...	30.39	50	N	2	b	30.45	+17	45	43	-9	SE	1	b	0	57	45	0.04	
Jersey ...	30.46	52	N	3	b	30.46	+11	47	46	-7	E	3	bc	3	57	45	0.02	
Brest ...	30.45	55	N	2	b	30.41	+23	45	45	-10	E	3	b	4	57	43	-	
L'Orient ...	30.44	55	NNE	3	o	30.41	+01	48	46	-7	E	3	o	4	59	45	-	
Rochefort ...	30.40	54	N	2	o	30.37	-04	46	46	+7	NE	3	o	3	61	36	-	
Biarritz ...	30.39	55	Z	0	b	30.31	-12	45	43	0	SSW	1	m	3	55	39	-	
Corunna ...	*	*	*	*	*										*	*	*	
Brussels ...	*	*	*	*	*	30.45	+11	38	*	-6	SSW	3	f	*	*	*	0.06	
Charleville ...	*	*	*	*	*	30.38	00	44	*	+10	ENE	3	o	*	*	*	*	
Paris ...	30.41	44	S	2	r	30.41	-02	46	45	+9	NE	2	f	*	*	*	0.04	
Lyon ...	*	*	*	*	*	30.37	-06	48	*	-3	N	2	o	*	*	*	*	
Toulou ...	30.23	55	SE	2	b	30.19	-06	54	48	-9	E	3	b	3	68	?	-	

## YESTERDAY'S 2 P.M. REPORTS AND REMARKS.

	Bar.	Dry.	Wet.	Wind.	Woa.	Sea.		Bar.	Dry.	Wet.	Wind.	Woa.	Sea.		
Skudesnaes ...	29.79	45	42	SSW	8	r	7	Valencia .....	30.35	50	47	SSW	4	bc	5
Thurso .....	29.71	46	43	SW	3	bc	3	Seilly .....							
Scarborough ...	30.20	50	46	N	2	b	2	London .....	30.34	55	49	N	2	b	*
Greencastle ...	30.11	48	43	SSW	3	b	*	Rochefort ...	30.29	46	45	N	2	bc	3
Holyhead .....	30.30	50	46	SSW	4	b	4								

Barometer is rising everywhere. The wind is generally N.W. but is inclined to back over Ireland, it is moderate on most coasts, but blows a gale at the mouth of the Tyne. —

## EXPLANATION OF COLUMNS

**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.

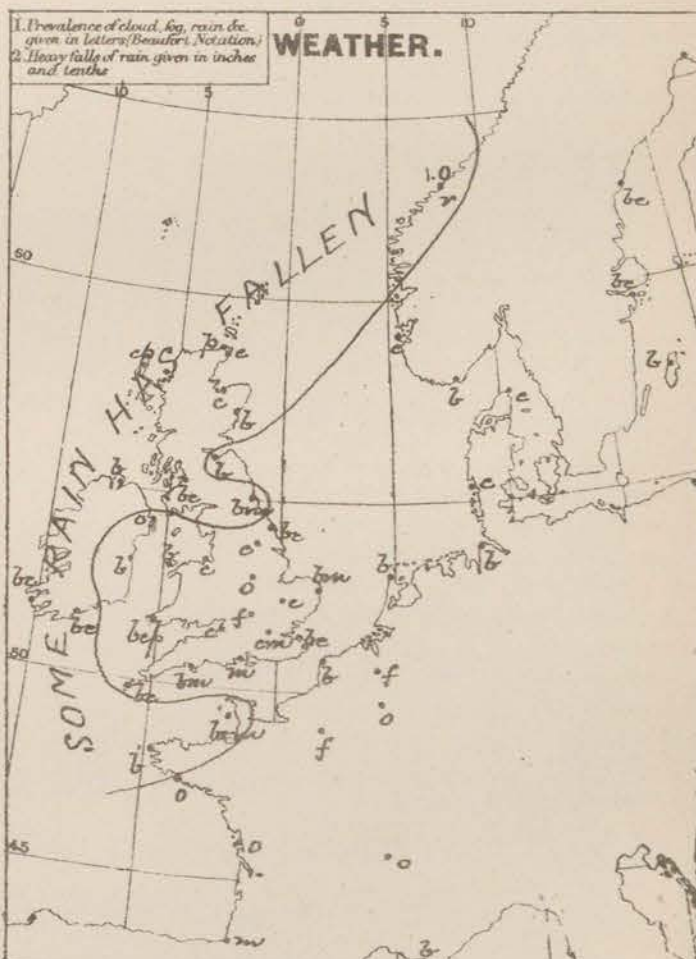
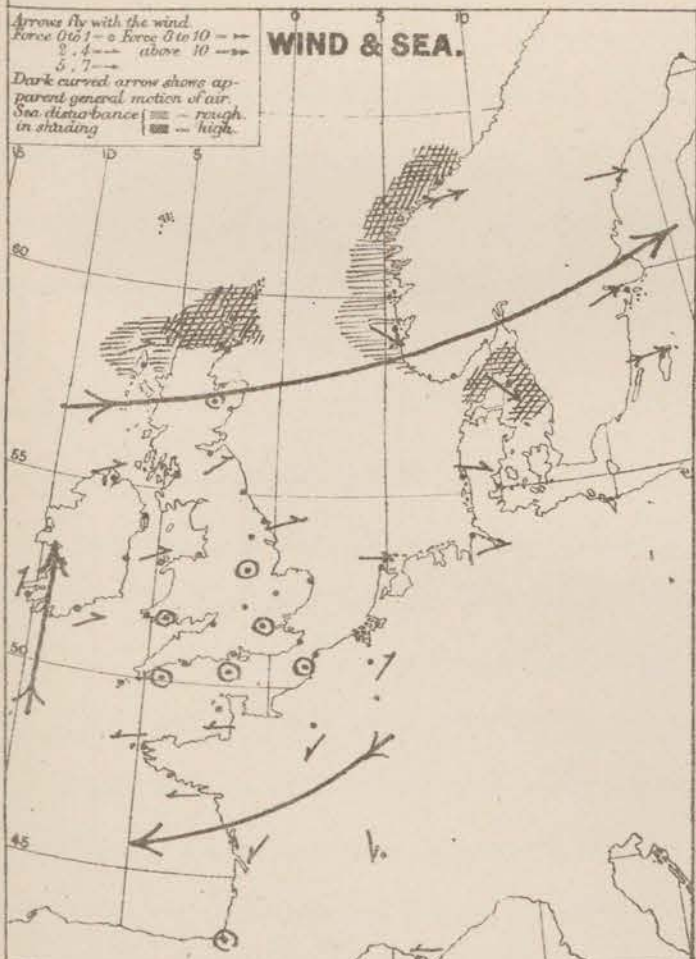
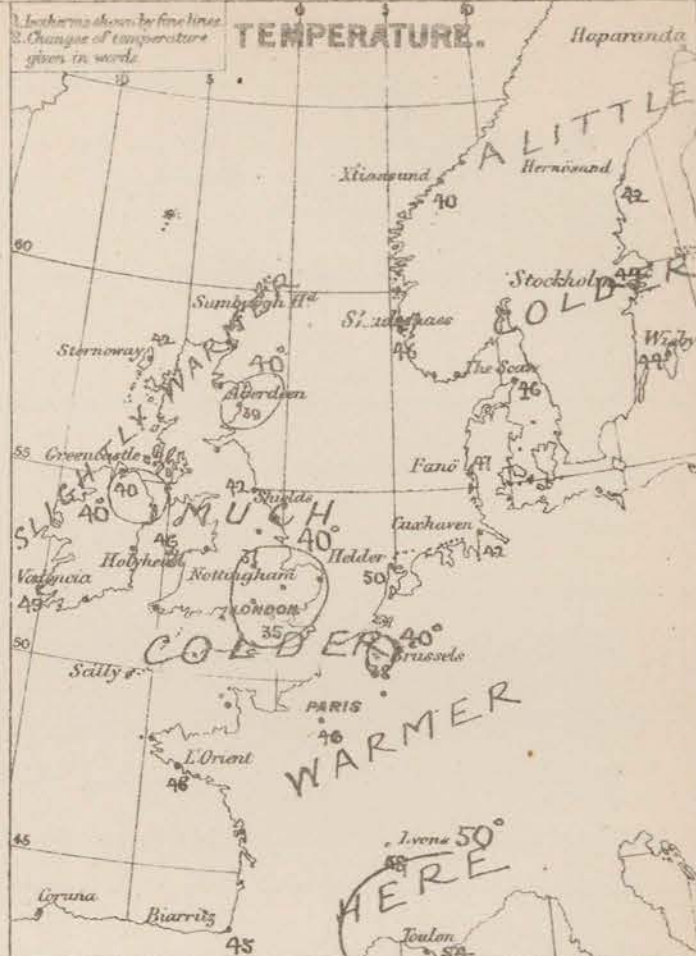
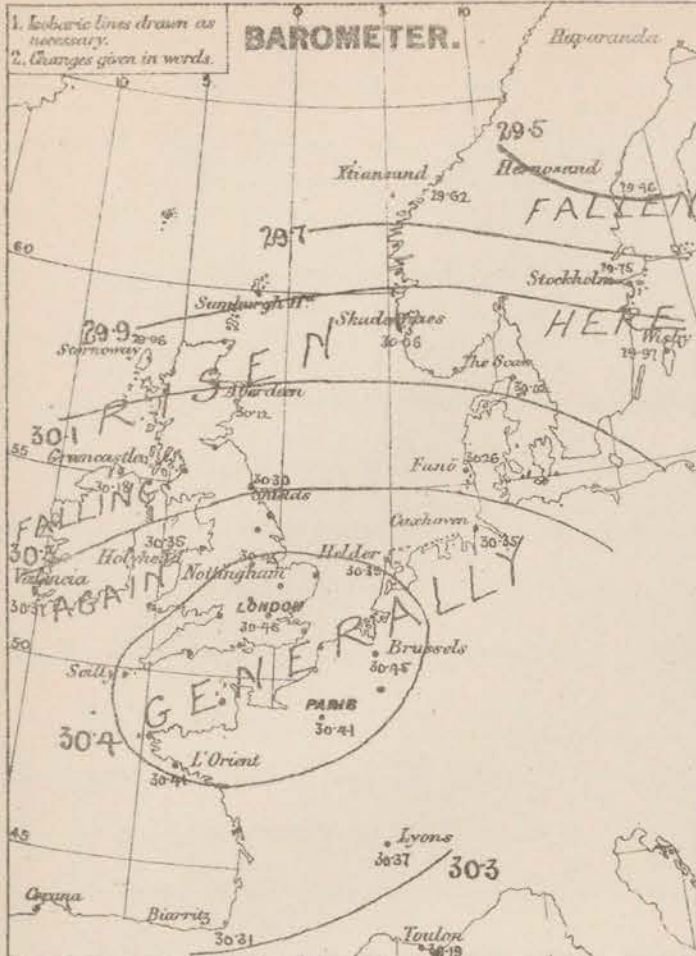
\* AN ASTERISK is inserted in all places for which information is not usually received.

† The evening observations are taken at 6 p.m. in our Islands, at 8 p.m. (Christiania time) in Sweden, Norway, and Denmark, and at 7 p.m. (Paris time) in France.

N.E.—The wind is said to "veer" when its direction changes with the sea, and to "back" when it shifts in the opposite direction.



# WEATHER CHARTS for 8 a.m. on Saturday Nov<sup>r</sup> 17<sup>th</sup> 1877.



**REMARKS.** Weather. Fine at present in almost all parts of the British Isles and France, but rather showery in the extreme N, and hazy or foggy in the S. Rain fell in the N during yesterday, and some light showers in Ireland. Some halos were seen at Valentia. Fog and rain at Nottingham last night. Temperature has fallen very fast over England during the night, but has risen slightly in Scotland, and the S. of Ireland. In Dublin it is said as 35° or 21° colder than it was yesterday; and during the night it went down to 31° in the shade, and 23° in the grass. Wind is moderate from SW in the W. and N. of our Islands, and calm in the S. while light E breezes are reported in the Channel and France. In Denmark the wind is still W. and blows strongly at the Scars. A slight gale from W was felt at several of our N stations yesterday. Barometer remains rough in the N, but is moderate off the W of Ireland, and elsewhere. Barometrical Indications. Throughout yesterday the barometer rose in all parts of our Islands, where it fell slightly in the SW of France. An anticyclone has thus been formed over the S. of England, the barometer at N. of France, and it is said to reach 30.4 in. In Ireland, however, the barometer has begun to fall again during the night.

Subscription for these Charts payable in advance to cover delivery. Delivery by hand 10 per quarter, book post 5 per quarter.

Meteorological Office,  
116, Victoria Street, Westminster, S.W.

R. H. SCOTT,  
Secretary.



# SUMMARY OF WEATHER IN WESTERN EUROPE

from Nov<sup>r</sup> 11<sup>th</sup> to Nov<sup>r</sup> 17<sup>th</sup> 1877.

(Issued Weekly as a Supplement to the "Daily Weather Report.")

The weather during this week also has been exceedingly unsettled. On Sunday an extraordinarily deep depression appeared on our W. coasts, gradients became very steep and an exceptionally heavy and general gale was experienced; from that time until the close of the week a succession of disturbances of more or less importance have passed along our W. coasts and the wind has been strong from SW to W. Temperature has oscillated very considerably the changes in the twenty-four hours amounting on some days to from 15° to 20°. Rain has been general and on Sunday night very heavy.

NOV<sup>r</sup> 11<sup>th</sup> The mercury was rising in the W. of France, but falling in all other parts of W. Europe - at Valencia rapidly. A deep depression lay off the W. of Ireland, and gradients were exceedingly steep over our SW stations. Wind was SE over the whole country, blowing a hard gale at Valencia, a fresh gale at Cork and in the Hebrides, a moderate gale in the Irish Sea and the Channel. Temperature had risen in the W. fallen in the S. Weather was fine in the NE. cloudy with rain elsewhere. The barometer continued to fall in the W. during the day, and the depression which was extraordinarily deep (Stornoway 27.94 6 PM) advanced to the W. coast of Scotland. At the same time the wind rose to a heavy gale which continued from about 11 am till midnight, the greatest force occurring generally in the evening. The gale was accompanied by torrents of rain.

NOV<sup>r</sup> 12<sup>th</sup> Pressure was still decreasing at most of the Continental stations, but had recovered somewhat at most of our own during the night. It was still low generally varying from 29.7 ins. at Toulon, and 29.85 ins. at Naparanda, to 28.16 ins. at Stornoway. Wind was W in the Channel but was still SE in most other places; it continued strong on nearly all coasts, and hard gales were reported from the Hebrides and the W. of Norway. Temperature had fallen at most stations, very briskly in the SW. Weather was very unsettled though the sky was moderately clear. Pressure increased generally during the day, but at Stornoway a slight decrease was shown at 6 PM, and the wind which had fallen lighter rose to a hard gale again in the afternoon.

NOV<sup>r</sup> 13<sup>th</sup> The barometer had risen rapidly over these Islands, and to a less extent elsewhere. The area of lowest readings still lay to the NW of Scotland (Stornoway 28.81 ins.) but a small subsidiary disturbance was shown over Central England. High readings were still reported both from Lapland and the S. of France. Wind varied from NW at Valencia and the mouth of the Channel, through W and S over France, the Netherlands, and on our E. coasts, to SE in the W. of Norway and the Shetlands. It was light or moderate generally but fresh in the SE, and in Norway and Sweden. Temperature had changed irregularly, it had, however, fallen over Central England and was very low. Weather was moderately fine. During the day pressure continued to increase briskly in most places.

NOV<sup>r</sup> 14<sup>th</sup> A further brisk rise of the barometer was reported, the change since the previous morning, amounting to 0.8 inch in the N. A large anticyclone (30.1 ins) lay over France and the Bay of Biscay, while the lowest readings (29.70 ins) still lay to the NW of Scotland. Wind was SE to SW on our coasts, and SE in



over the North Sea; it was for the most part very light in force, but blew freshly in the S. of Ireland.

Temperature had risen several degrees at Valentia and Rock Point, fallen elsewhere—very quickly in London to  $32^{\circ}$ .—and was very low over Central England. Weather was very fine over Great Britain and France, though a great deal of fog prevailed at the Central stations, but both in the S. of Ireland and Norway, rain was falling. During the day the barometer rose briskly in the SE. while it fell in the N. so that gradients increased considerably and the S<sup>W</sup> wind rose to a fresh or hard gale in the N. and N.

NOV<sup>r</sup> 15<sup>th</sup> The depression which caused the fall of the barometer in the N. on the 14<sup>th</sup> having travelled NE<sup>W</sup> was shown between the Shetlands and the West of Norway. The mercury was falling in Scandinavia, rising elsewhere. Readings varied from 30.5 in. at Paris to 29.48 in. at Lumburgh Head. Wind was blowing a fresh or hard gale in the Hebrides and Shetlands, and a S<sup>W</sup> gale at Shidunato, elsewhere it was generally moderate from SW or S. Temperature had risen except in the Netherlands, the increase varying from  $15^{\circ}$  to  $22^{\circ}$  over England. Weather was dull and unsettled. During the day the barometer again fell in the West, and a fresh depression passed NE<sup>W</sup> along our NW coast. This disturbance caused a gale in N. Scotland, which though very local was reported to be unprecedented in violence.

NOV<sup>r</sup> 16<sup>th</sup> Pressure was increasing slightly in Ireland, Scotland, and the N. of England, but decreasing elsewhere. Readings were highest 30.4 in. over the Central and NW Departments of France and lowest over Norway. Gradients were rather steep in the N. slight in the S. Wind was N<sup>W</sup> on most of our coasts, SW<sup>W</sup> on the Eastern shores of the North Sea, S<sup>W</sup> in Sweden. It blew a hard gale in the N. of Scotland, and S. of Norway, but was light over England and France. Temperature had risen at some of our SW stations, but fallen in all other places, Paris was only  $37^{\circ}$ , and Rochefort  $39^{\circ}$ , or nearly  $20^{\circ}$  lower than the SW English stations. Weather was very unsettled. The sky was clear in the SW and NE. cloudy or overcast elsewhere, with rain in the N. of Scotland. The barometer rose everywhere during the day, and the gale took off in Scotland, though it still held in Norway.

NOV<sup>r</sup> 17<sup>th</sup> The mercury was falling slightly in the S. of Ireland and over France, but was rising elsewhere. A large anticyclone lay over the South of England, the Channel, and North of France, while the area of low pressure, which was to the NW of Scotland, on the previous day was disappearing over the Gulf of Bothnia. Wind was light except in Scandinavia, it was E<sup>W</sup> in Brittany, S<sup>W</sup> in Ireland, SW<sup>W</sup> on our other coasts, and N<sup>W</sup> over the North Sea. Temperature had risen on our NW coasts, and over Central France, but had fallen in most other places, over Central England the change was very large. Weather was moderately fine, though foggy and misty in the E. and S. and showery in the NW. During the day the fall of the barometer had extended from the N. to all parts of our Islands, and a new depression was shown in the NW.—



# DAILY WEATHER REPORT Nov<sup>r</sup> 18<sup>th</sup> 1877.

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 13.)		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 13.)			Max.	Min.		
Haparanda ...	29.17	33	Z	0	δ	29.58		33	32		SSH	2	6	*	37	30.	-	
Hernösand ...	29.78	41	H	4	δc	29.91	+ .45	33	31	- 9	SSH	2	6	*	*	*	-	
Stockholm ...	29.97	39	SSH	4	6	30.02	+ .27	37	36	- 7	SSH	2	6	*	*	*	-	
Wisby ...	30.07	43	H	4	6	30.14	+ .17	41	40	- 3	SSH	6	6	*	*	*	-	
Christiansund ...	29.77	43	SSH	8	r	29.94	- .08	45	42	+ 5	SSH	1	c	6	45	39	0.79	
Skudeenaes ...	30.02	46	SSH	4	c	29.81	- .25	47	45	+ 1	S	8	f	5	?	46	-	
Oxö (Xtiansand) ...	30.13	46	SSH	4	r	29.98	- .07	47	44	+ 3	SSH	6	c	3	?	45	0.08	
Skagen (The Seaw) ...	30.14	45	NH	5	δ	30.06	+ .04	44	42	- 2	H	5	o	5	48	39	-	
Fanö ...	30.23	44	SSH	2	δ	30.11	- .15	45	44	- 2	SSH	4	c	*	50	41	0.08	
Cuxhaven ...	30.36	4	SSH	1	f	30.22	- .11	37	37	- 5	SSH	1	f	*	46	36	-	
Sumburgh Head ...	29.81	46	SSH	4	δ	29.94		44	41		SSH	5	c	4	48	42	0.45	
Stornoway ...	29.69	48	SSH	7	r	29.57	- .39	37	36	- 5	SSH	3	δc	5	49	35	0.35	
Thurso ...	29.81	45	SSH	5	δc	29.60	- .38	49	48	+ 8	SSH	2	δc	3	50	38	0.14	
Wick ...	29.86	46	SSH	4	o	29.61	- .40	45	42	+ 1	SSH	1	δc	2	48	37	0.12	
Nairn ...	29.85	46	SSH	2	δc	29.66	- .39	40	37	- 4	Z	o	c	1	48	39	0.11	
Aberdeen ...	29.98	45	SSH	4	δc	29.68	- .44	44	42	+ 5	SSH	2	δ	2	48	39	0.01	
Leita ...	30.06	47	SSH	3	δ	29.77	- .44	45	43	+ 1	SSH	5	o	*	52	43	0.01	
St. Ald. ...	30.17	45	S	2	δ	29.88	- .42	45	43	+ 3	H	3	rm	2	52	41	-	
Scarborough ...	30.23	42	SSH	2	δ	29.95	- .38	42	41	+ 1	SSH	4	δc	2	46	40	-	
ork ...	30.24	44	SSH	1	δc	29.97	- .40	42	41	+ 1	SSH	1	δ	2	50	39	-	
ottingham ...	30.39	40	S	1	δ	30.07	- .36	41	40	+ 4	S	1	o	*	44	35	-	
Ardrossan ...	30.06	50	SSH	5	c	29.80	- .41	47	44	- 1	SSH	4	c	4	51	46	0.10	
Greencastle ...	30.00	48	SSH	3	o	29.82	- .36	40	39	- 0.2	SSH	3	o	*	50	39	0.12	
Donaghadee ...	30.09	46	SSH	2	c	29.83	- .40	42	41	+ 4	SSH	3	δc	2	48	37	0.02	
Kingstown ...	30.18	45	SSE	3	δ.	29.97	- .37	44	42	o	NH	4	c	3	50	43	0.08	
Holyhead ...	30.19	49	SSH	3	c	29.96	- .39	45	43	- 1	NH	5	r	4	51	45	0.34	
Liverpool (Bidston) ...	30.23	46	SSH	2	o	29.96	- .42	49	46	+ 6	SSH	4	o	2	50	41	0.02	
Valencia ...	30.14	50	SSH	5	c	30.09	- .22	46	42	- 3	NH	3	δc	4	53	45	0.49	
Roche's Point ...	30.21	48	SSH	3	δc	30.07	- .29	45	43	- 1	H	3	δ	3	52	42	0.06	
Pembroke ...	30.26	50	SSH	2	δc	30.04	- .34	52	48	+ 2	SSH	4	δcw	3	53	49	0.01	
Portishead ...	30.28	50	H	1	δc	30.09	- .32	46	45	+ 5	SSH	3	o	5	54	39	-	
Scilly ...																		
Plymouth ...	30.30	45	Z	o	δc	30.15	- .29	42	42	+ 5	NH	1	o	*	51	37	-	
Hurst Castle ...	30.27	49	E	2	δc	30.14	- .28	48	47	+ 8	NH	1	o	1	51	37	-	
Dover ...	30.34	45	ESE	1	δ	30.17	- .28	46	44	+ 2	NH	7	c	1	51	43	-	
London ...	30.33	47	Z	o	δp	30.14	- .31	43	43	+ 8	δ	2	o	*	51	34	-	
Oxford ...	*	*	*	*	*	30.11	- .32	43	42	+ 5	SSH	1	rm	*	51	37	-	
Cambridge ...	30.31	40	SSH	1	δ	30.12	- .31	39	39	+ 4	S	1	o	*	50	33	-	
Yar mouth ...	30.32	42	SSH	1	δ	30.14	- .27	40	40	+ 2	SSH	2	δp	2	44	38	-	
The Helder ...	*	*	*	*	*	30.15	- .24	38	37	- 12	S	1	f	*	*	*	-	
Cape Gris Nez ...	30.35	45	SE	1	δ	30.19	- .26	43	41	- 2	S	2	o	1	52	43	-	
Jersey ...	30.34	47	Z	o	o	30.21	- .25	51	50	+ 4	H	2	omv	2	52	45	-	
Brest ...	30.33	?	Z	o	m	30.24	- .17	52	50	+ 7	Z	o	m	3	54	45	0.08	
L'Orient ...	30.31	50	E	2	δc	30.23	- .18	48	48	o	SSH	1	rm	3	52	45	-	
Rochefort ...	30.24	54	E	5	o	30.21	- .16	45	45	- 1	E	4	o	3	57	37	-	
Biarritz ...	30.23	54	ENE	3	m	30.20	- .11	43	41	- 2	SE	3	o	3	?	36	-	
Corunna ...	*	*	*	*	*	30.22		48	*		NE	3	6	2	*	*	*	
Brussels ...	*	*	*	*	*	30.22	- .23	41	*	+ 3	SSH	3	f	*	*	*	-	
Charleville ...	*	*	*	*	*	30.15	- .23	44	*	o	SSE	3	o	*	*	*	*	
Paris ...	30.32	47	NE	2	f	30.22	- .49	46	*	o	NNE	1	δ	*	*	*	-	
Lyons ...	*	*	*	*	*	30.25	- .12	50	*	+ 2	S	2	o	*	*	*	*	
Toulon ...	30.22	54	SSH	1	δ	30.18	- .01	52	48	- 2	E	2	6	3	59	?	-	

## YESTERDAY'S 2 P.M. REPORTS AND REMARKS.

	Bar.	Dry.	Wet.	Wind.	Wea.	Sea.		Bar.	Dry.	Wet.	Wind.	Wea.	Sea.		
Skudesnaes ...	30.36	46	44	SSH	4	c	4	Valencia .....	30.21	51	? 47	SSH	5	c	4
Thurso .....	29.91	48	45	SSH	3	c	2	Scilly .....							
Scarborough ...	30.27	46	44	SSH	2	δc	2	London .....	30.36	49	45	H	2	δm	*
Greencastle ...	30.06	49	46	SSH	3	δ	*	Rochefort ...	30.24	54	52	NE	4	o	3
Holyhead .....	30.24	49	47	SSH	3	cp	2								

The barometer is falling everywhere - especially in the N. and N.E., where the S.W. wind is freshening, the weather has a gloomy, threatening appearance, and temperature is rising fast. Warnings. The following warning has been sent to our N. and N.E. coasts this afternoon, "another depression coming over Scotland, about south cone 3.20 Saturday"

## EXPLANATION OF COLUMNS.

**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.

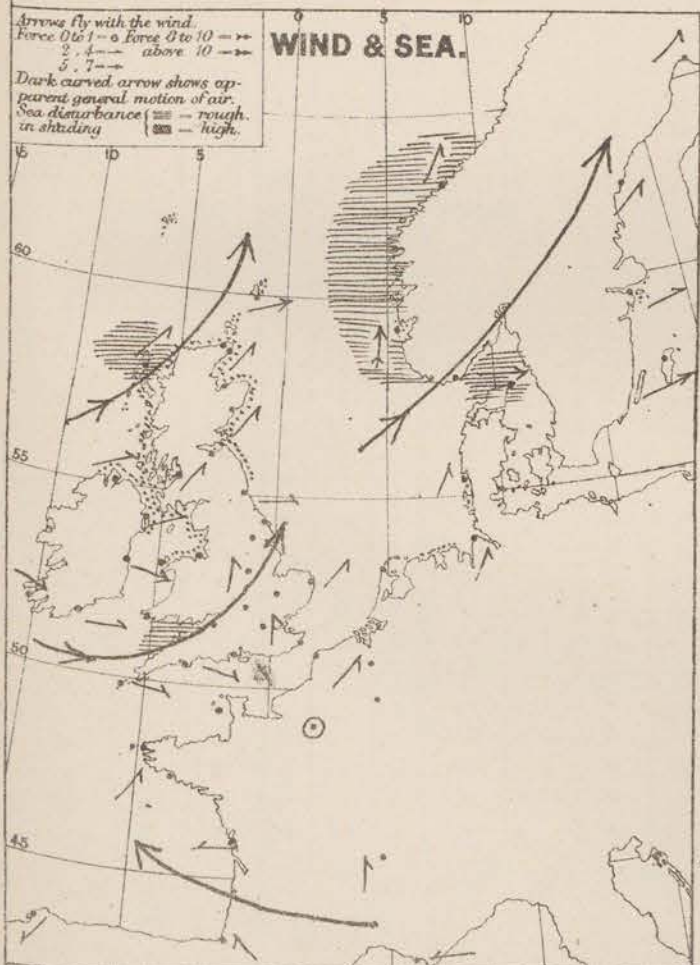
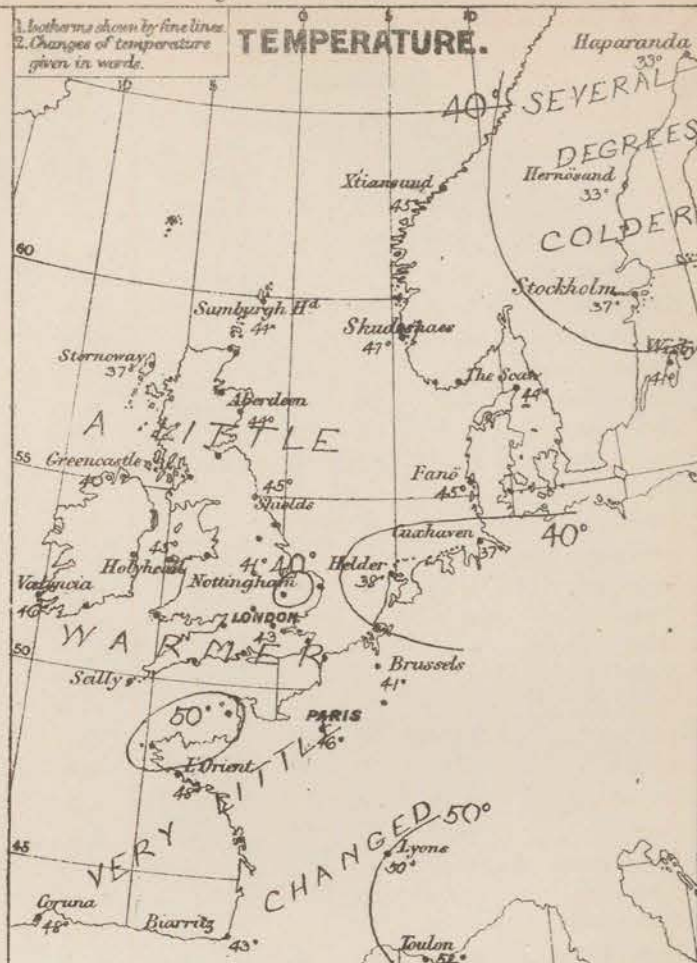
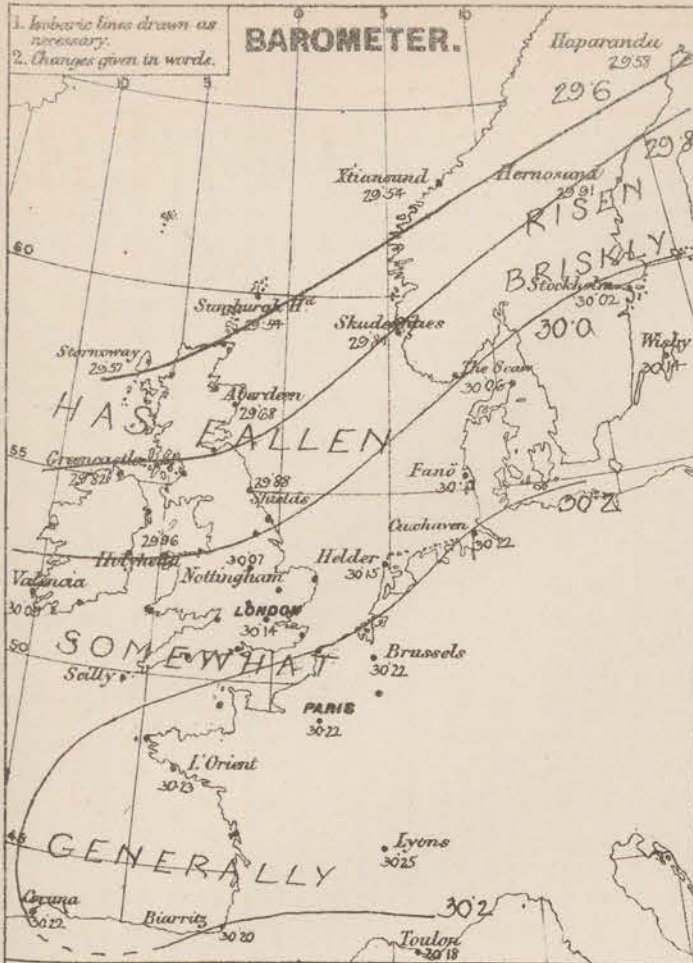
\* AN ASTERISK is inserted in all places for which information is not usually received.

† The evening observations are taken at 6 p.m. in our Islands, at 8 p.m. (Christiania time) in Sweden, Norway, and Denmark, and at 7 p.m. (Paris time) in France.

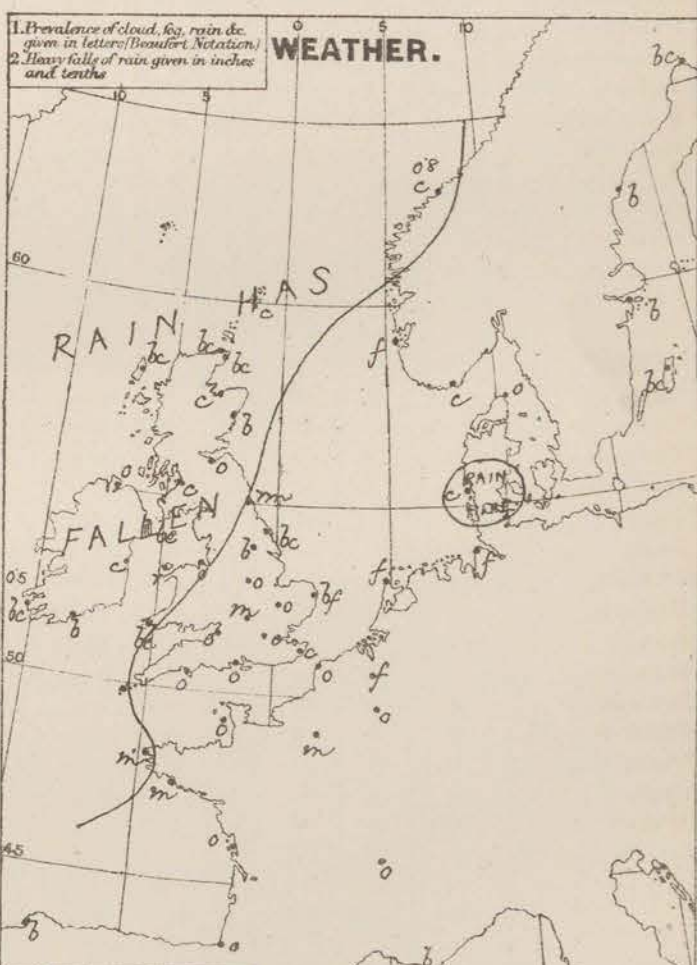
N.B.—The wind is said to "veer" when its direction changes with the sea, and to "back" when it shifts in the opposite direction.



# WEATHER CHARTS for 8 a.m. on Sunday Nov<sup>r</sup> 18<sup>th</sup> 1877.



Note: A dotted line is drawn round these coasts on which the warning signal is hoisted.



**REMARKS.** Weather is clear and fine over Sweden, the greater part of Scotland and the south of Ireland, but is overcast in nearly all other places, with mist or fog at a few stations. Lunar halo was seen in many parts of the country last night, and aurora borealis at Nottingham. Rain fell yesterday at all the more western and northern stations, but the amounts were not very large. Temperature has fallen several degrees at the Swedish stations, but has risen a little in nearly all other parts of Western Europe. Readings over these islands and France vary between 40° and 30°, but in the Gulf of Bothnia the thermometer is as low as 33°. Wind is generally N or NW over the British Isles, but blows into S. in land masses, while in the south of France E breeze prevails; it is light or moderate in force excepting in Norway, where it is strong, increasing to the force of a fresh gale at Helsingfors. A fresh SW gale was experienced in the east of Scotland last night, and a moderate gale in the Heligoland. Sea is rough on the Norwegian coasts, but is moderate to smooth elsewhere.

**Barometrical Indications.** The barometer is rising in Sweden, but falling in all other parts of Western Europe. A series of depressions appear to be travelling in a NE direction to the N<sup>o</sup> of our islands.

**Warnings.** The following warning message was sent to our north and north-west coasts yesterday afternoon:—"Another depression coming over Scotland. Hoist South Cone. 3.20 pm Saturday".



# DAILY WEATHER REPORT

NOV 3 1877.

STATIONS.	† YESTERDAY EVENING.					8 A.M. TO DAY.										PAST 24 HOURS.		
	Barometer at 320 F. and Sea Level.	Temp. in shade.	WIND.		Weather.	BAROMETER.		SHADE TEMP.			WIND.		Weather.	Sea. (0 to 9.)	SHADE TEMP.			
			Dir.	Force. (0 to 12).		Reading at 320 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.	Amount of Rainfall.	
Haparanda ...	29.63	35	Z	0	b	29.45	-.13	37	37	+ 4	S	2	7	*	*	30	-	
Hernösand ...	29.62	39	SSW	8	c	29.42	-.49	41	38	+ 8	SSW	6	0	*	*	*	0.04	
Stockholm ...	29.74	40	SW	4	0	29.61	-.41	38	36	+ 1	SSW	3	0	*	*	*	-	
Wisby ...	30.06	42	N	6	0	29.77	-.37	41	39	0	WSW	6	bc	*	*	*	0.04	
Christiansund ...	29.38	41	SW	1	b	29.25	-.29	40	40	- 5	SW	6	+	5	45	37	?	
Skudesnaes ...	29.60	46	WSW	6	+	29.58	-.23	44	41	- 3	WSW	6	+	5	46	2	-	
Oxö (Xtiansand) ...	29.67	44	SW	7	+	29.65	-.33	46	43	- 1	WSW	6	c	4	48	41	-	
Skagen (The Scaev) ...	29.75	41	N	7	f	29.73	-.23	42	40	- 2	WSW	3	c	4	45	37	0.12	
Fanö ...	29.87	46	N	4	bc	29.86	-.25	46	43	+ 1	WSW	4	e	*	?	46	0.16	
Cuxhaven ...	29.99	45	SW	2	f	29.98	-.24	42	42	+ 5	SW	2	f	*	43	36	-	
Sumburgh Head ...	29.36	45	WSW	6	+	29.43	-.11	43	40	- 1	WSW	6	c	4	46	40	0.06	
Stornoway ...	29.55	41	N	4	bc	29.50	-.07	35	34	- 2	N	1	og	3	44	33	0.16	
Thurso ...	29.41	42	WSW	4	c	29.53	-.07	37	36	- 12	SSW	2	bc	3	46	36	0.11	
Wick ...	29.56	42	N	6	bc	29.55	-.06	38	36	- 7	S	2	bc	2	45	36	0.02	
Nairn ...	29.66	40	N	3	b	29.59	-.07	38	36	- 2	Z	0	bc	0	43	36	0.12	
Aberdeen ...	29.70	40	SSW	1	b	29.61	-.07	38	37	- 6	SSW	2	b	1	46	37	-	
Leith ...	29.80	42	WSW	4	b	29.65	-.12	42	40	- 3	SSW	1	c	*	47	42	0.06	
Shields ...	29.89	42	WSW	1	b	29.75	-.13	40	38	- 5	SSW	1	omv	1	48	38	-	
Scarborough ...	29.93	41	SW	2	b	29.82	-.13	39	38	- 3	WSW	2	0	2	46	39	0.02	
York ...	30.06	41	WSW	1	b	29.83	-.14	39	37	- 3	S	1	0	2	47	37	0.04	
Nottingham ...	30.06	38	WSW	1	b	29.90	-.17	34	34	- 7	SE	1	c	*	?	30	-	
Ardrossan ...	29.84	45	SW	3	bc	29.63	-.17	47	45	0	SW	3	+	3	48	44	0.37	
Greencastle ...	29.85	41	N	3	r	29.56	-.26	41	40	+ 1	S	2	+	*	48	39	0.16	
Donaghadee ...	29.93	40	SW	2	0	29.62	-.26	42	42	0	SSW	2	p	1	45	39	0.10	
Kingstown ...	30.01	45	SW	4	b	29.65	-.32	47	45	+ 3	SSE	4	+	3	47	43	0.01	
Holyhead ...	30.01	46	N	3	c	29.71	-.25	48	46	+ 3	SSW	4	omv	3	49	44	0.09	
Liverpool (Bidston) ...	30.02	43	WSW	4	b	29.78	-.18	41	40	- 8	SSE	3	c	3	49	40	0.21	
Valencia ...	30.06	43	WSW	3	c	29.75	-.34	47	45	+ 1	WSW	5	0	4	52	43	0.10	
Roche's Point... ..	30.08	46	N	3	b	29.69	-.38	49	47	+ 4	WSW	4	bc	3	50	43	0.10	
Pembroke ...	30.10	49	WSW	2	bc	29.79	-.35	49	48	- 3	SSW	4	07	3	52	46	0.20	
Portishead ...	30.09	46	WSW	3	b	29.93	-.16	43	41	- 3	SSW	4	0	3	52	38	0.01	
Scilly ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	
Plymouth ...	30.14	45	N	2	bc	29.93	-.22	47	45	+ 5	SW	3	0	*	54	38	0.03	
Hurst Castle ...	30.01	50	WSW	3	c	29.93	-.21	51	48	+ 3	S	2	bc	2	55	39	0.01	
Dover ...	30.03	49	WSW	3	b	30.03	-.14	43	41	- 3	WSW	2	bc	1	57	39	-	
London ...	30.07	50	SW	2	c	29.98	-.16	42	40	- 1	S	2	c	*	52	32	-	
Oxford ...	...	...	...	...	...	29.95	-.16	37	36	- 6	S	1	c	*	53	35	0.04	
Cambridge ...	30.05	45	WN	1	c	29.96	-.16	34	33	- 5	S	1	bc	*	57	30	0.01	
Yar mouth ...	30.00	46	SW	2	bc	29.97	-.17	36	35	- 4	WSW	2	bc	2	47	33	-	
The Helder ...	...	...	...	...	...	29.98	-.17	46	42	+ 8	SW	1	c	*	*	*	0.04	
Cape Gris Nez ...	30.11	52	SW	4	b	30.05	-.14	45	43	+ 2	S	2	b	1	54	41	-	
Jersey ...	30.19	52	N	3	c	30.07	-.14	50	49	- 1	SW	4	cg	3	55	48	0.08	
Brest ...	30.24	55	WSW	2	0	30.08	-.16	52	50	0	SW	4	0	4	55	39	0.12	
L'Orient ...	30.23	52	N	1	m	30.11	-.12	50	48	+ 2	SW	3	bc	3	54	45	-	
Rochefort ...	30.23	52	E	2	0	30.19	-.02	43	41	- 2	SE	3	bc	3	54	41	-	
Biarritz ...	30.20	54	WSW	3	0	30.22	+ .02	43	41	- 5	ESE	2	0	3	54	41	-	
Corunna ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	
Brussels ...	...	...	...	...	...	30.07	-.15	45	...	+ 4	SW	6	0	*	...	...	0.05	
Charleville ...	...	...	...	...	...	30.09	-.06	45	...	+ 1	SSE	3	0	*	...	...	...	
Paris ...	30.21	45	N	1	0	30.14	-.08	44	43	- 2	SSW	4	bc	*	...	...	-	
Lyons ...	...	...	...	...	...	30.24	-.01	46	...	- 4	N	2	0	*	...	...	...	
Toulon ...	30.14	55	SW	1	b	30.14	-.04	50	50	- 2	Z	0	m	2	61	52	-	

## YESTERDAY'S 2 P.M. REPORTS AND REMARKS.

	Bar.	Dry.	Wet.	Wind.	Wes.	Sea.		Bar.	Dry.	Wet.	Wind.	Wes.	Sea.	
Skudesnaes ...	29.60	45	43	SSW	7	6	Valencia ...							
Thurso .....							Scilly .....							
Scarborough ...							London .....						*	
Greencastle ...						*	Rochefort ...	30.21	45	45	E	2	bc	3
Holyhead .....														

## EXPLANATION OF COLUMNS.

**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.

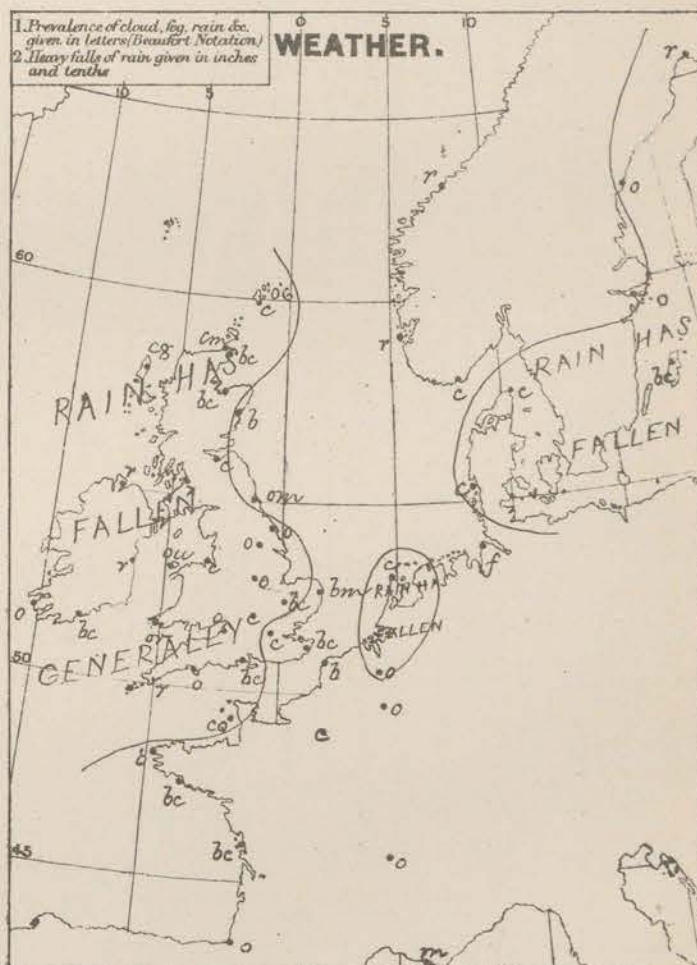
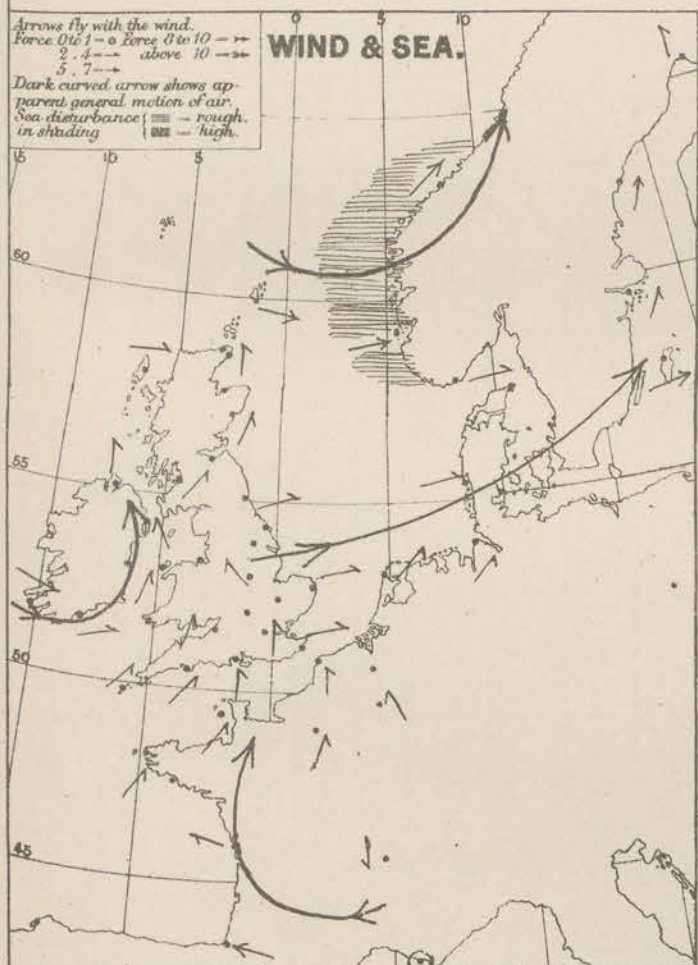
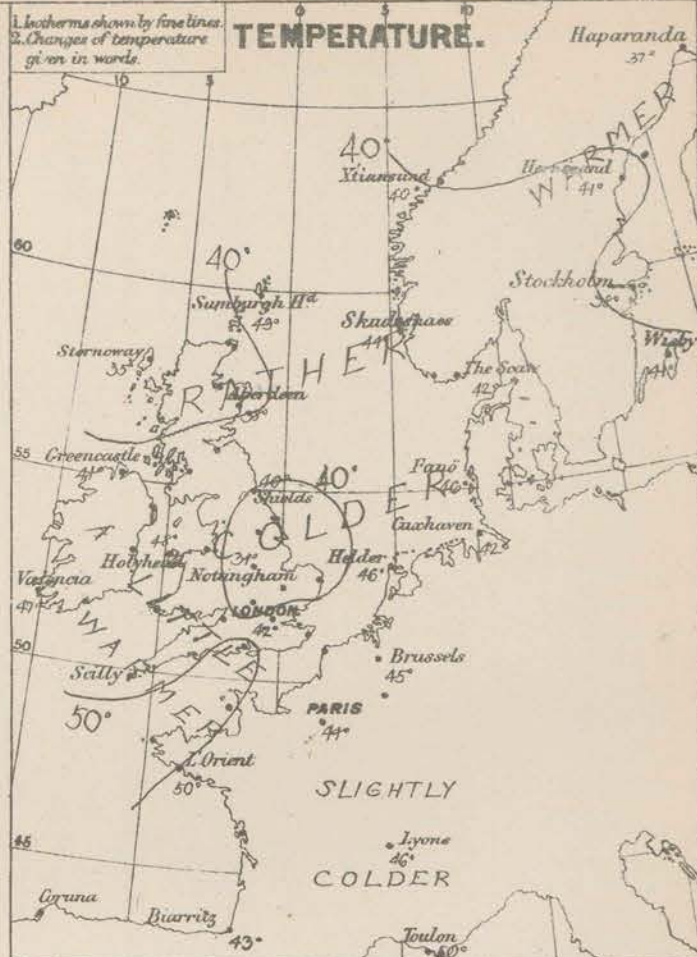
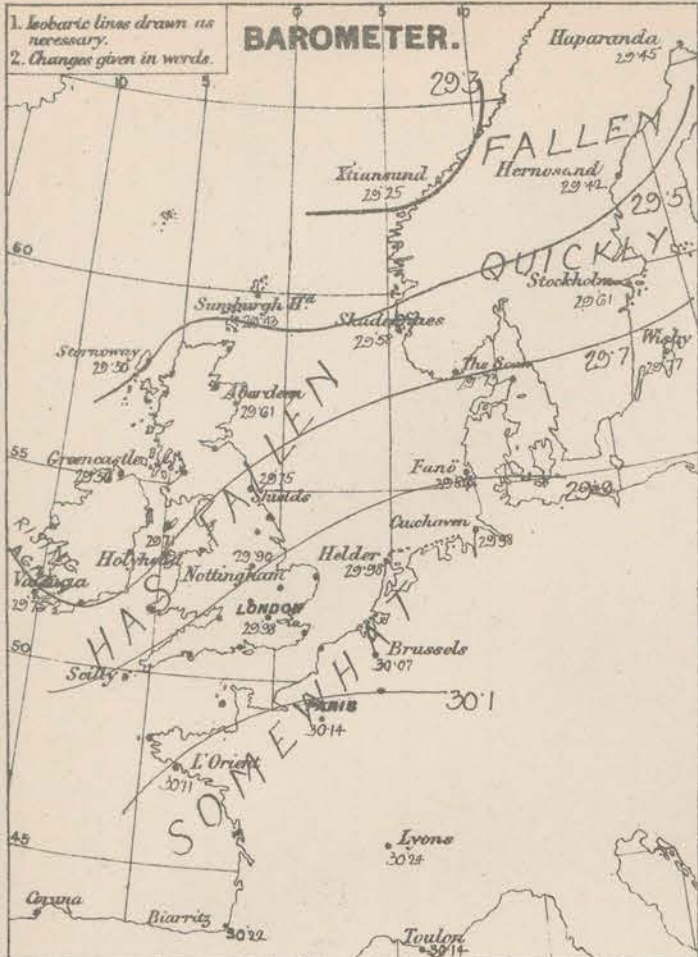
\* AN ASTERISK is inserted in all places for which information is not usually received.

† The evening observations are taken at 6 p.m. in our Islands, at 8 p.m. (Christiania time) in Sweden, Norway, and Denmark, and at 7 p.m. (Paris time) in France.

N.B.—The wind is said to "veer" when its direction changes with the sun, and to "back" when it shifts in the opposite direction.



# WEATHER CHARTS for 8 a.m. on Monday Nov<sup>r</sup> 19<sup>th</sup> 1877.



**REMARKS.** Weather is more or less cloudy everywhere, and at our western stations, as well as in the west of Norway, rain is falling. In the north of Scotland the weather is stormy and threatening. Lunar halos were seen at Kingstown and Stornoway last night, and thunder and hail occurred during yesterday in the west of Scotland. Rain has fallen generally. Temperature has increased slightly over Iceland but decreased over S<sup>r</sup> Britain, and is now very low over Central England, Nottingham and Cambridge being only 36°, while during the night the thermometers in the shade fell to 30°. In London the shade temperature was 32°, and that on the grass 21°. Wind is fresh from WNW both at Valentia and Sumburgh H., but is SW on nearly all other coasts; it is moderate to light generally but blows strongly in the west of Norway. Sea is moderate to smooth.

**Barometrical Indications.** Pressure has decreased everywhere but is now rising markedly in the south of Ireland. A large depression lies in the neighbourhood of Christiansund (29.25 in.) while a small subsidiary is shown over Iceland; the highest readings are reported from the south east of France. (Lyons 30.24 in.).

**Warnings.** Signals lowered in the north and north west this morning.

Subscription for these Charts payable in advance to cover delivery. Delivery by hand 4s per quarter, book post 5s per quarter.

Meteorological Office,  
116, Victoria Street, Westminster, S.W.

R. H. SCOTT.  
Secretary.



# DAILY WEATHER REPORT NOV 20<sup>TH</sup> 1877.

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.		
Haparanda ...	29.31	36	S	4	r	29.43	-.02	31	30	-	6	SW	2	0	*	37	28	0.28
Hernösand ...	29.40	30	SW	2	z	29.50	+.08	26	25	-	15	Z	0	0	*	*	*	-
Stockholm ...	29.53	40	SSW	4	z	29.61	.00	39	38	+	1	SSW	2	0	*	*	*	-
Wisby ...	29.76	41	WSW	4	bc	29.71	-.06	40	38	-	1	S	4	c	*	*	*	-
Christiansund ...	29.30	40	SW	4	r	29.32	+.07	39	37	-	1	ESE	1	c	5	?	46	0.08
Skudesnaes ...	29.50	45	SW	4	o	29.18	-.40	43	40	-	1	NE	6	r	4	?	43	0.08
Oxö (Xtiansand) ...	29.60	43	WSW	1	c	29.23	-.42	45	44	-	1	S	9	r	7	46	39	-
Skagen (The Szw) ...	29.65	42	WSW	4	c	29.41	-.32	44	42	+	2	SSE	5	o	5	45	39	0.20
Fanö ...	29.64	45	SSW	6	c	29.28	-.58	44	44	-	2	S	6	r	*	46	43	0.28
Cuxhaven ...	29.85	42	SW	2	o	29.42	-.56	44	44	+	2	SSW	5	o	*	?	37	0.11
Sumburgh Head ...	29.41	38	NE	1	bc	29.38	-.05	38	36	-	5	NE	3	bc	2	45	35	0.01
Stornoway ...	29.37	38	NNE	1	r	29.57	+.07	38	37	+	3	N	4	bcps	4	40	34	0.32
Thurso ...	29.38	40	Z	0	r	29.43	-.10	43	41	+	6	N	6	c	5	45	36	0.27
Wick ...	29.36	41	SE	1	r	29.43	-.12	39	37	+	1	NNH	2	c	2	43	36	0.39
Nairn ...	29.37	36	Z	0	r	29.47	-.12	39	37	+	1	NNH	6	bc	3	41	32	0.83
Aberdeen ...	29.32	42	S	1	r	29.29	-.02	41	39	+	3	N	6	bc	4	43	35	0.95
Leith ...	29.38	42	N	3	bc	29.45	-.20	42	39	0		N	3	o	*	44	35	0.18
Shields ...	29.39	44	SSW	3	omv	29.34	-.41	37	36	-	3	NNH	2	o	2	44	35	0.06
Scarborough ...	29.44	45	SSW	4	c	29.36	-.46	37	36	-	2	NNH	2	c	3	46	36	0.04
York ...	29.46	45	SW	3	o	29.41	-.42	38	37	-	1	NNH	2	o	*	46	36	0.06
Nottingham ...	29.53	46	NNH	6	o	29.49	-.41	35	35	+	1	N	1	o	*	46	34	0.15
Ardrossan ...	29.44	44	NNH	2	bc	29.53	-.10	42	39	-	5	NNH	3	o	2	48	40	0.84
Greencastle ...	29.48	43	N	2	o	29.64	+.08	41	39	0		NNH	2	bc	*	48	38	0.37
Donaghadee ...	29.52	41	NNH	3	bc	29.60	-.02	42	41	0		NNH	5	bc	4	45	37	0.34
Kingstown ...	29.62	44	NNH	4	o	29.71	+.06	41	38	-	6	NNH	5	o	4	50	40	0.03
Holyhead ...	29.59	46	NNH	6	o	29.58	-.13	47	43	-	1	NNH	9	bcps	7	52	43	0.31
Liverpool (Bidston) ...	29.54	45	N	6	o	29.51	-.27	41	40	0		NNH	7	o	4	47	39	0.36
Valencia ...	29.81	46	NNH	5	bc	29.96	-.21	46	41	-	1	NNH	4	bcps	4	51	42	0.11
Roche's Point...	29.77	46	NNH	5	bc	29.84	+.07	42	40	-	7	NNH	4	o	4	50	40	0.08
Pembroke ...	29.69	49	NNH	4	bc	29.71	-.08	46	44	-	3	NNH	7	o	4	51	44	0.12
Portishead ...	29.65	45	N	5	bc	29.59	-.34	43	41	0		N	6	bc	5	51	40	0.16
Scilly ...	29.74	45	NNH	2	z	29.73	-.20	42	41	-	5	NNH	4	bc	*	52	39	0.25
Plymouth ...	29.64	49	NNH	4	z	29.62	-.31	42	41	-	9	NNH	3	bc	3	53	41	0.17
Hurst Castle ...	29.55	51	SW	6	o	29.58	-.45	39	37	-	4	N	3	c	2	51	38	0.38
Dover ...	29.71	50	S	2	o	29.58	-.40	38	36	-	4	WSW	1	o	*	50	35	0.18
London ...	*	*	*	*	*	29.56	-.39	38	37	+	1	N	2	o	*	48	36	0.02
Oxford ...	29.57	46	S	2	c	29.52	-.44	34	33	0		SW	1	o	*	50	30	0.02
Cambridge ...	29.61	47	SSW	4	rg	29.48	-.49	36	35	0		WSW	3	bc	2	47	34	0.13
Yarmouth ...	*	*	*	*	*	29.43	-.55	44	43	0		WSW	4	o	*	*	*	0.16
The Helder ...	29.75	50	SSW	6	r	29.62	-.43	45	43	0		N	5	bc	4	52	41	0.47
Cape Gris Nez ...	29.78	50	N	6	c	29.77	-.30	42	41	-	8	NNH	4	bc	4	52	41	0.42
Jersey ...	29.91	54	N	4	r	29.87	-.21	48	45	-	4	NNH	5	bc	5	54	41	0.20
Brest ...	29.92	52	N	5	r	29.90	-.21	46	46	-	4	NNH	5	r	4	59	41	0.24
L'Orient ...	29.03	52	S	6	r	29.90	-.29	52	48	+	9	NNH	7	r	4	54	39	0.30
Rochefort ...	30.05	57	SW	4	r	30.02	-.20	52	50	+	9	SW	6	r	3	57	41	0.16
Biarritz ...	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
Corunna ...	*	*	*	*	*	29.63	-.46	42	*	-	3	N	3	c	*	*	*	*
Brussels ...	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
Charleville ...	29.92	44	SSW	4	o	29.72	-.42	44	41	-	1	WSW	3	c	*	*	*	0.08
Paris ...	*	*	*	*	*	29.59	-.35	46	*	0		SE	2	c	*	*	*	*
Lyons ...	30.08	48	NNH	3	z	29.96	-.18	45	?	-	5	NNH	4	omv	5	57	?	-
Toulon ...																		

## YESTERDAY'S 2 P.M. REPORTS AND REMARKS.

	Bar.	Dry.	Wet.	Wind.	Wes.	Sea.		Bar.	Dry.	Wet.	Wind.	Wes.	Sea.		
Skudesnaes ...	29.52	48	42	SW	4	r	4	Valencia .....	29.80	47	42	N	5	cg	5
Thurso .....	29.43	40	39	SSE	1	o	3	Scilly .....							
Scarborough ...	29.59	44	42	SSW	4	o	3	London .....	29.74	50	48	5	1	cg	*
Greencastle ...	29.49	47	43	N	2	z	*	Rochefort ...	30.13	46	45	5	3	r	2
Holyhead .....	29.52	47	45	NNH	7	pc	5								

The barometer has risen at Valencia and fallen elsewhere. The depression noticed over Ireland now lies over the Irish Sea. The wind has veered to NNH in the N. and freshened.

## EXPLANATION OF COLUMNS.

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

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

† The evening observations are taken at 6 p.m. in our Islands, at 8 p.m. (Christiania time) in Sweden, Norway, and Denmark, and at 7 p.m. (Paris time) in France.

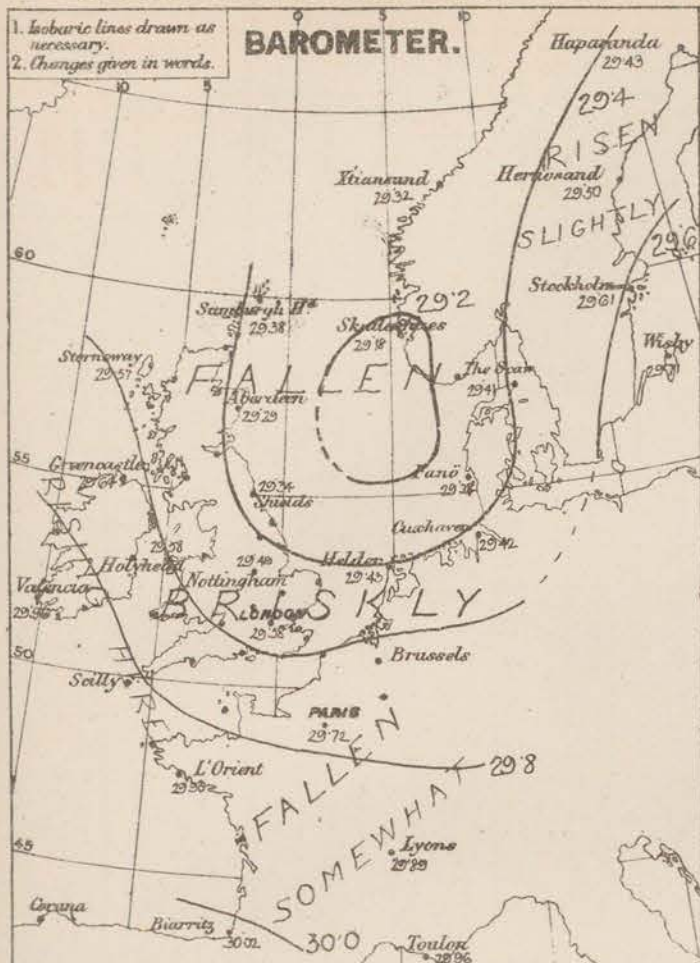
N.B.—The wind is said to "veer" when its direction changes with the sun, and to "back" when it shifts in the opposite direction.



# WEATHER CHARTS for 8 a.m. on Tuesday Nov<sup>r</sup> 20<sup>th</sup> 1877.

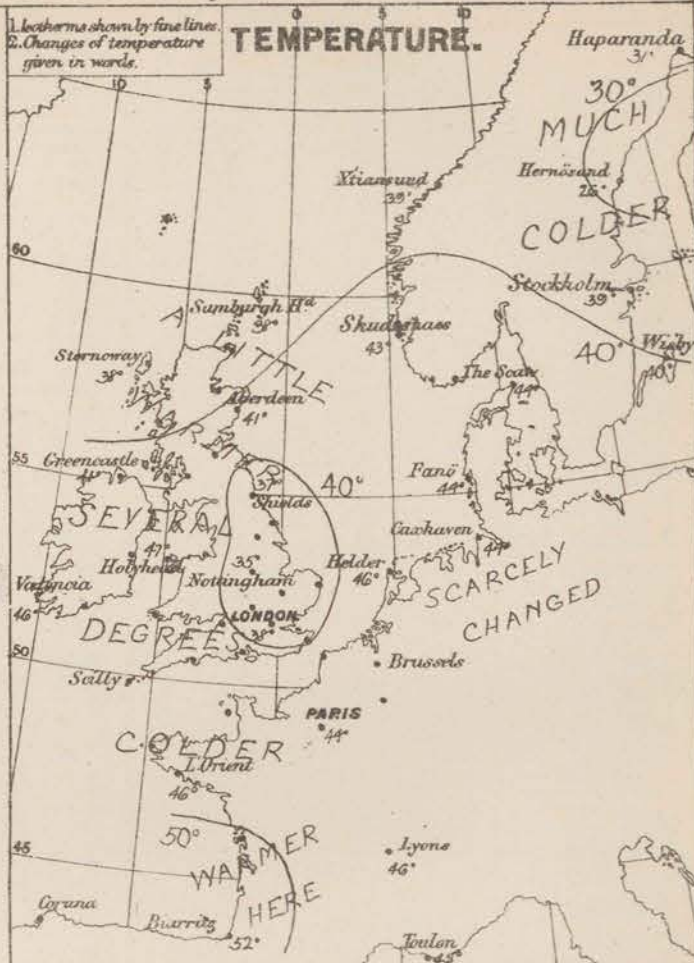
1. Isobaric lines drawn as necessary.
2. Changes given in words.

## BAROMETER.



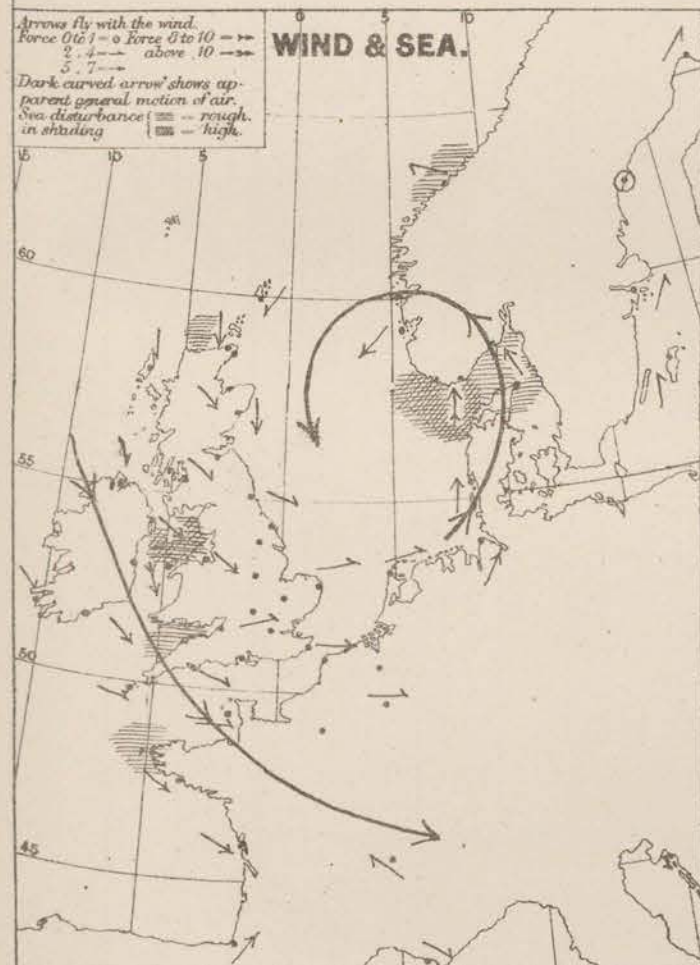
1. Isotherms shown by fine lines.
2. Changes of temperature given in words.

## TEMPERATURE.



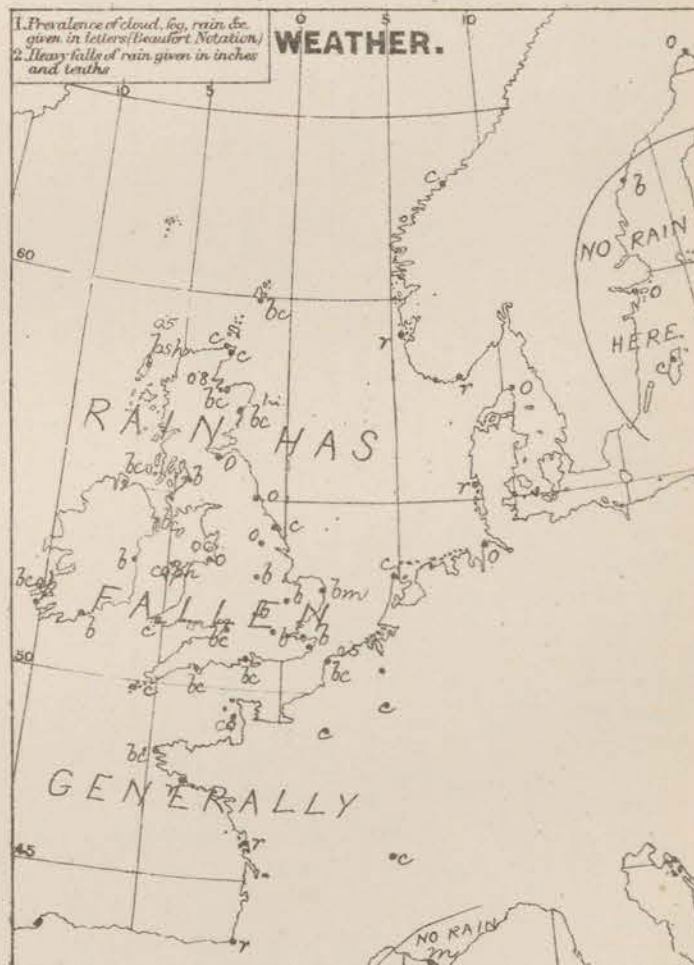
1. Arrows fly with the wind. Force 0 to 10 ———— above 10 ————
2. Dark curved arrow shows apparent general motion of air.
3. Sea disturbance (—) rough, in shading (■) high.

## WIND & SEA.



1. Prevalence of cloud, fog, rain &c. given in letters (Beaufort Notation).
2. Heavy falls of rain given in inches and tenths.

## WEATHER.



**REMARKS.** Weather is dull at our north eastern stations, as well as on the Continent generally, while rain is falling in the west of France and in the south of Norway; in the west and south of these Islands the sky is moderately clear, though at Stornoway, Holyhead and Valentia showers of snow, hail or rain are reported. Rain fell generally yesterday - very heavily in the north east of Scotland - and some thunders was heard at Valentia in the afternoon. Temperature has fallen except in the west of France and the north of Scotland; over the Channel the change has been considerable. It now varies from 38° to 43° over Scotland, from 41° to 46° over Ireland and from 34° to 47° over England; at Cambridge the thermometer fell to 30° in the shade last night, while in London it descended to 35° in the shade and 27° on the grass. Wind is N' on our northern and western coasts, W' over France and our south east coasts and S' over Denmark and Norway; it is strong in the west and north, and blows a hard gale both at Holyhead and in the Skager Rack. Sea is very rough in the Irish Sea and at Orkney, rather so off Shetland, Portland and Poole, moderate elsewhere.

**Barometrical Indications.** A small but well-defined depression lies off the west of Norway; the barometer is falling fast on the eastern shore of the North Sea, while it is rising over the greater part of these Islands.

Subscription for these Charts payable in advance to cover delivery. Delivery by hand 10 per quarter, book post 5 per quarter.

Meteorological Office,  
116, Victoria Street, Westminster, S.W.

R. H. SCOTT.  
Secretary.



# DAILY WEATHER REPORT Nov<sup>r</sup> 21<sup>st</sup> 1877.

STATIONS.	↑ YESTERDAY EVENING.						8 A.M. TO DAY.										PAST 24 HOURS.		
	Barometer at 320 F. and Sea Level.	Temp. in shade.	WIND.		Weather.	Barometer. Reading at 320 F. and Sea Level.	Difference from 8 a.m. yesterday.	SHADE TEMP.			WIND.	Weather.	Sea. (0 to 9.)	SHADE TEMP.		Amount of Rainfall.			
			Direc.	Force. (0 to 12).				Dry.	Wet.	Difference from 8 a.m. yesterday.				Max.	Min.				
Haparanda ...	29.60	30	Z	0	0	29.68	+ .25	34	33	+ 3	SE	2	0	*	30	—	—		
Hernösand ...	29.58	27	Z	0	0	29.45	— .05	39	38	+ 13	SE	6	7	*	*	*	0.20		
Stockholm ...	29.59	41	SE	6	0	29.40	— .21	39	39	0	S	4	7	*	*	*	0.20		
Wisby ...	29.59	41	S	6	7	29.46	— .25	40	39	0	SSW	4	0	*	*	*	0.08		
Christiansund ...	29.25	39	ESE	1	C	29.20	— .12	39	46	0	SSW	2	0	3	39	36	—		
Skudesnaes ...	29.23	40	NNE	2	T	29.32	+ .14	20	38	— 3	NNW	2	0	2	43	31	0.04		
Oxö (Xtiansand) ...	29.23	39	NNW	2	0	29.27	+ .04	39	37	— 6	N	4	0	3	45	37	—		
Skagen (The Seaw) ...	29.25	44	WSW	4	0	29.33	— .08	39	39	— 5	WSW	5	0	5	45	36	0.39		
Fanö ...	29.30	40	SSE	3	0	29.40	+ .12	36	36	— 8	SSW	1	0	*	45	32	0.07		
Cuxhaven ...	29.41	41	SW	3	0	29.46	+ .04	42	42	— 2	NNW	2	0	*	45	36	0.15		
Sumburgh Head ...	29.42	39	N	5	C	29.38	+ .00	40	38	+ 2	NNW	5	0	4	43	35	0.12		
Stornoway ...	29.65	37	NNW	3	C	29.41	— .16	36	35	— 2	SSW	1	0	4	41	29	0.04		
Thurso ...	29.51	41	N	5	C	29.48	+ .05	34	33	— 9	NNW	2	0	3	45	33	0.15		
Wick ...	29.56	40	NE	3	0	29.48	+ .05	34	33	— 5	N	2	0	1	42	31	0.11		
Nairn ...	29.63	39	NNW	1	C	29.55	+ .08	33	31	— 6	Z	0	0	1	42	32	—		
Aberdeen ...	29.54	38	NNW	6	0	29.55	+ .26	32	30	— 9	WSW	1	0	2	43	32	0.01		
Leith ...	29.65	42	NNW	3	0	29.59	+ .14	30	29	— 12	N	1	0	*	47	29	—		
Shields ...	29.58	40	NNW	5	0	29.64	+ .30	36	34	— 1	Z	0	0	3	44	32	—		
Scarborough ...	29.57	40	NNW	5	0	29.68	+ .32	35	34	— 2	WSW	2	0	3	44	33	0.02		
York ...	29.64	39	NNW	3	0	29.69	+ .28	35	34	— 3	SW	1	0	*	45	33	0.03		
Nottingham ...	29.70	40	NNW	4	0	29.74	+ .25	34	34	— 1	SSW	1	0	*	45	33	0.04		
Ardrossan ...	29.69	44	NNW	4	0	29.86	+ .03	42	41	0	SE	2	0	2	47	38	—		
Greencastle ...	29.77	40	NNW	3	0	29.44	— .20	40	38	— 1	S	3	0	*	45	35	0.16		
Donaghadee ...	29.79	39	NNW	4	7	29.55	— .05	40	40	— 2	S	2	0	1	45	34	0.02		
Kingstown ...	29.87	42	NNW	4	0	29.57	— .14	44	42	+ 3	S	4	0	3	45	39	0.66		
Holyhead ...	29.79	46	NNW	7	C	29.61	+ .03	42	41	— 5	SSW	3	0	2	48	41	0.01		
Liverpool (Bidston) ...	29.74	44	N	6	0	29.67	+ .16	40	39	— 1	S	2	0	1	47	39	0.04		
Valencia ...	30.01	44	NNW	2	0	29.62	— .24	34	32	+ 8	WSW	6	0	6	55	43	0.37		
Roche's Point ...	29.98	44	NNW	3	0	29.63	— .21	33	32	+ 11	N	4	0	4	53	42	0.26		
Pembroke ...	29.90	47	NNW	5	0	29.61	— .10	33	33	+ 7	N	6	0	4	53	46	0.28		
Portishead ...	29.84	44	NNW	2	0	29.77	+ .18	40	40	— 3	SSW	3	0	3	49	38	0.06		
Scilly ...	29.92	42	N	2	0	29.76	+ .03	47	47	+ 5	ENE	1	0	*	30	38	0.24		
Plymouth ...	29.77	44	NNW	3	0	29.83	+ .21	46	44	+ 4	SW	3	0	3	47	40	0.04		
Hurst Castle ...	29.69	42	NNW	3	0	29.84	+ .26	39	37	0	N	3	0	1	45	37	0.02		
Dover ...	29.72	42	NNW	3	0	29.83	+ .25	38	36	0	WSW	1	0	*	48	35	—		
London ...	29.72	42	NNW	3	0	29.81	+ .25	38	37	0	Z	0	0	*	46	34	—		
Oxford ...	29.70	40	NNW	2	0	29.82	+ .30	34	33	0	SW	1	0	*	46	33	0.01		
Cambridge ...	29.84	41	NNW	6	0	29.77	+ .29	33	33	— 3	N	2	0	4	42	32	0.09		
Yar mouth ...	29.84	41	NNW	6	0	29.87	+ .24	46	43	0	NNW	4	0	*	*	*	0.16		
The Helder ...	29.71	45	NNW	6	C	29.87	+ .25	43	41	— 2	NN	3	0	3	48	44	—		
Cape Gris Nez ...	29.93	47	NNW	6	C	29.95	+ .18	45	44	+ 3	SW	4	0	4	48	41	0.15		
Jersey ...	30.04	52	NNW	5	0	29.94	+ .07	52	52	+ 4	NNW	4	0	4	52	41	0.08		
Brest ...	30.04	46	NNW	4	0	30.02	+ .12	50	50	+ 4	WSW	5	0	3	52	39	0.04		
L'Orient ...	29.99	44	NNW	7	0	30.11	+ .21	53	48	— 2	NNW	3	0	3	57	37	0.08		
Rochefort ...	30.10	55	N	6	7	30.20	+ .18	50	48	— 2	NNW	5	0	3	57	48	0.24		
Biarritz ...	30.10	55	N	6	7	30.20	+ .18	50	48	— 2	NNW	5	0	3	57	48	0.24		
Corunna ...	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*		
Brussels ...	*	*	*	*	*	29.86	*	37	*	*	WSW	26	0	*	*	*	0.10		
Charleville ...	*	*	*	*	*	29.90	+ .27	31	*	— 11	WSW	1	0	*	*	*	*		
Paris ...	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*		
Lyons ...	*	*	*	*	*	30.11	+ .22	46	*	0	NN	2	0	*	*	*	*		
Toulon ...	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*		

## YESTERDAY'S 2 P.M. REPORTS AND REMARKS.

	Bar.	Dry.	Wet.	Wind.	Wes.	Sea.		Bar.	Dry.	Wet.	Wind.	Wes.	Sea.		
Skudesnaes ...	29.19	41.	41	Z	0	r	4	Valencia .....	30.04	47	43	NNW	3	cp	4
Thurso .....	29.51	42	39	N	5	c	5	Scilly .....							
Scarborough ...	29.47	43	39	NNW	8	bc	6	London .....	29.63	45	42	NNW	2	c	*
Greencastle ...	29.75	45	41	NNW	2	o	*	Rochefort ...	29.92	52	46	NNW	7	o	4
Holyhead .....	29.73	47	43	NNW	8	e	6								

Pressure is increasing everywhere, though very little at Valencia. The wind is NNW and blows a fresh gale in the NW and NE. The weather is fair. —

## EXPLANATION OF COLUMNS.

**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.

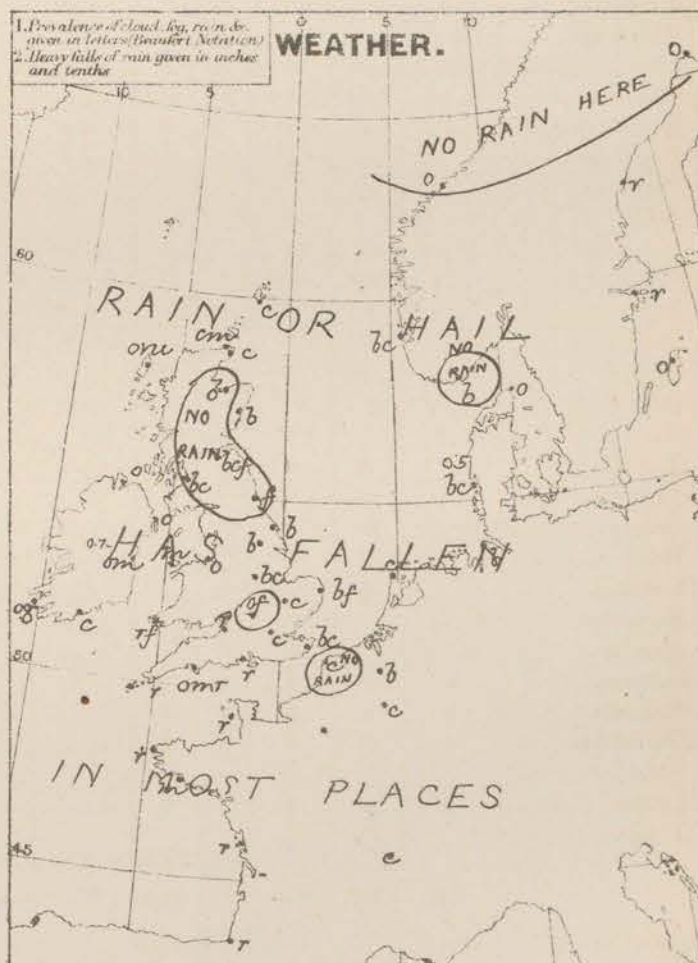
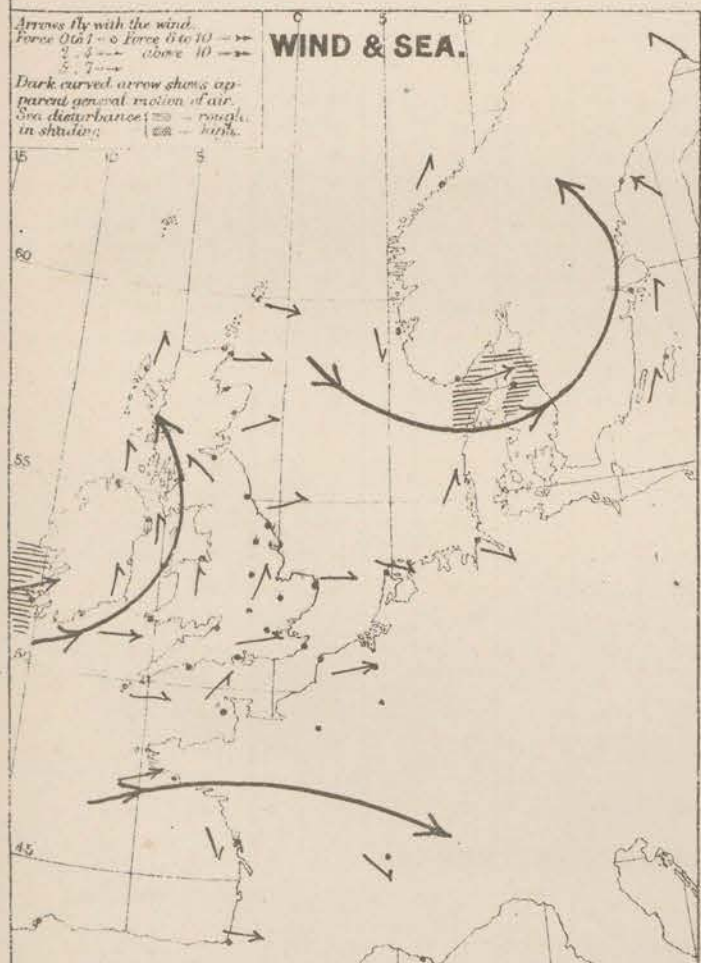
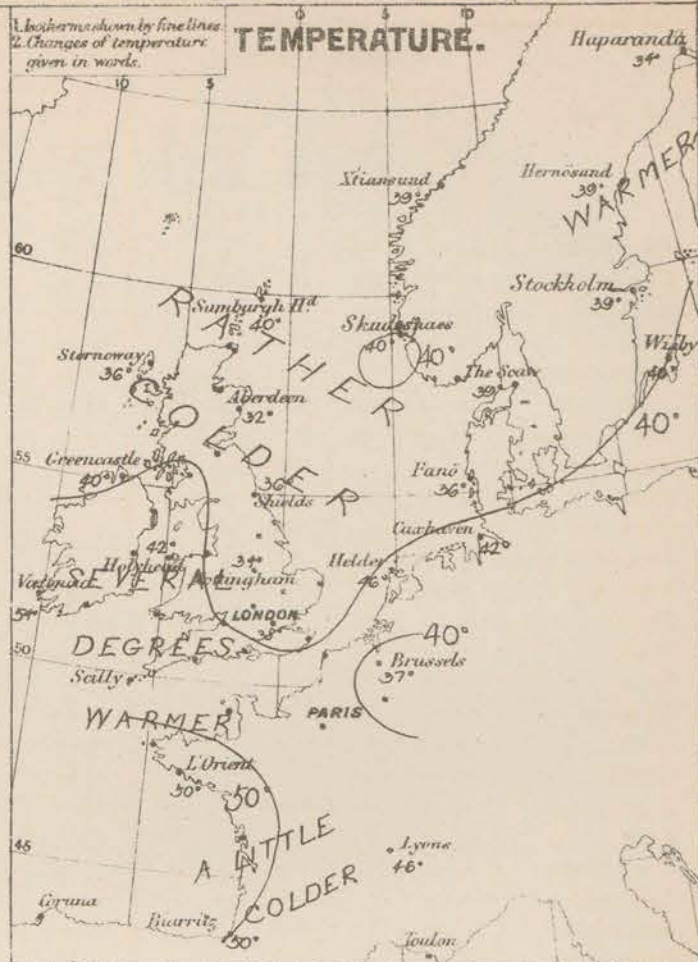
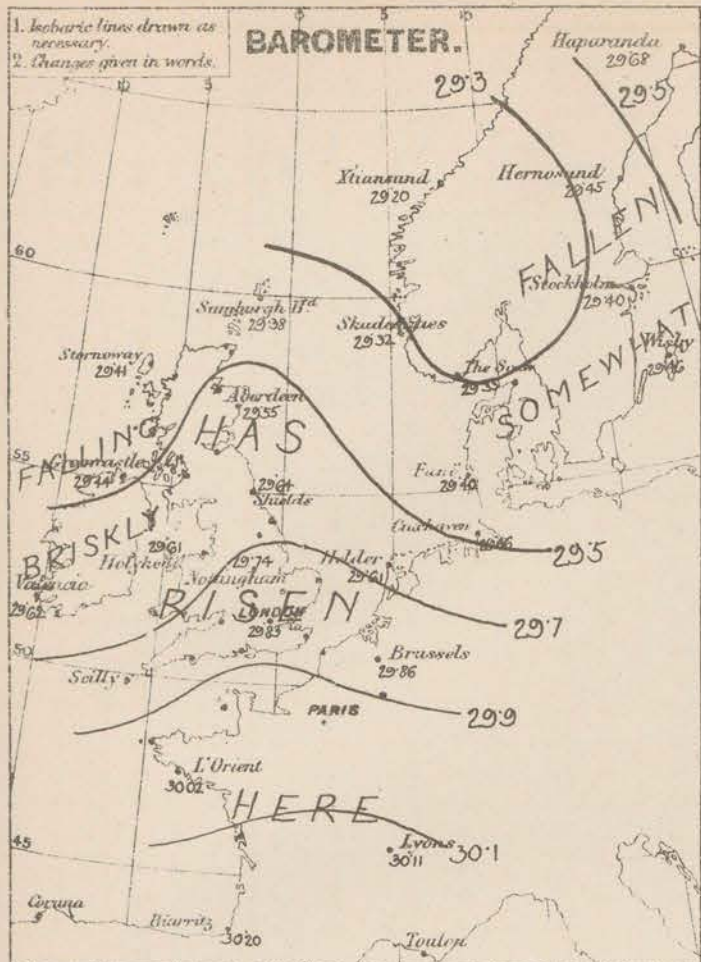
\* AN ASTERISK is inserted in all places for which information is not usually received.

† The evening observations are taken at 6 p.m. in our Islands, at 8 p.m. (Christiania time) in Sweden, Norway, and Denmark, and at 7 p.m. (Paris time) in France.

N.B.—The wind is said to "veer" when its direction changes with the sun, and to "back" when it shifts in the opposite direction.



WEATHER CHARTS for 8 a.m. on Wednesday Nov<sup>r</sup> 21<sup>st</sup> 1877.



REMARKS. Weather is overcast or very cloudy in the west and north, with rain in the south west and over the Bay of Biscay, but is moderately clear in the east; some fog is reported in the eastern and central parts of England. Rain fell generally yesterday, with snow at Nottingham and Yarmouth, hail at Pembroke, Jersey and Falmouth. Temperature has fallen fast in North Britain, and to a less extent at most of our eastern stations, but has risen in the west and south west. It varies from  $30^{\circ}$  to  $42^{\circ}$  over Scotland, from  $40^{\circ}$  to  $50^{\circ}$  over Ireland, and from  $30^{\circ}$  to  $50^{\circ}$  over England; during last night it fell to  $24^{\circ}$  at Leith and Stormoway, and to  $32^{\circ}$  in other parts of Scotland, in London the thermomete in the shade fell to  $35^{\circ}$ , and that on the grass to  $23^{\circ}$ . Wind is W<sup>st</sup> to SW<sup>st</sup> generally; it is light in force in most places, but blows strongly in the south west. Sea is rough off the west coast of Ireland, slight on our other coasts.

Barometrical Indications. The area of low pressure which lay over the North Sea yesterday is now shown over Norway; it is apparently filling up and the mercury is rising at all our more eastern stations and on the eastern shores of the North Sea. In the east a high decrease has set in during the night, and a small depression, which is apparently travelling E<sup>W</sup>, lies over Iceland.

Subscription for these Charts payable in advance to cover delivery. Delivery by hand 8/- per quarter, book post 5/- per quarter.

Meteorological Office,  
116, Victoria Street, Westminster, S. W.

R. H. SCOTT.  
Secretary.



# DAILY WEATHER REPORT *Nov<sup>r</sup> 22<sup>d</sup>* 1877.

STATIONS.	† YESTERDAY EVENING.						8 A.M. TO DAY.										PAST 24 HOURS.		
	Barometer at 320 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 15).		Reading at 320 F. and Sea Level.	Difference from 8 a.m. yesterday.	Dry.	Wet.	Difference from 8 a.m. yesterday.	Dir.	Force. (0 to 15).			Max.	Min.			
Haparanda ...	29.53	33	SE	6	r	29.37	-.31	36	35	+ 2	S	4	o	*	36	?	0.24		
Hernösand ...	29.28	40	SE	6	o	29.15	-.30	36	35	- 3	SSW	2	c	*	*	*	0.59		
Stockholm ...	29.36	43	SSW	2	o	29.23	-.07	35	33	- 4	SSW	2	o	*	*	*	0.04		
Wisby ...	29.57	40	SW	6	r	29.47	+ .01	37	36	- 3	SW	6	o	*	*	*	0.08		
Christiansund ...	29.15	43	SW	1	o	28.84	-.36	37	32	- 2	E	4	c	3	?	32	-		
Skudesnaes ...	29.27	42	SSE	6	o	28.59	-.73	41	39	+ 1	SE	8	r	9	?	39	0.04		
Oxö (Xtiansand) ...	29.39	39	WSW	2	o	28.74	-.53	40	39	+ 1	SE	9	r	7	43	39	-		
Skagen (The Sæw) ...	29.42	41	WSW	4	o	28.94	-.39	40	39	+ 1	S	9	r	9	43	36	0.12		
Fanö ...	29.31	43	S	6	c	28.88	-.52	49	48	+ 13	SW	4	c	*	?	34	0.47		
Cuxhaven ...	29.67	*	WN	3	o	29.10	-.36	49	49	+ 7	SW	7	r	*	?	36	0.46		
Sumburgh Head ...	28.99	42	SE	6	o	28.36	-.62	43	41	+ 3	W	4	o	4	44	38	0.42		
Stornoway ...	28.68	45	SW	5	o	28.46	-.95	36	35	o	W	2	c	5	45	34	0.33		
Thurso ...	28.83	39	SE	5	r	28.44	-.104	38	37	+ 4	SW	2	c	3	42	32	0.08		
Wick ...	28.88	41	S	7	o	28.47	-.101	38	37	+ 4	S	3	o	3	43	31	0.07		
Nairn ...	28.83	40	SW	4	o	28.52	-.103	39	37	+ 6	SW	4	o	2	42	30	0.12		
Aberdeen ...	29.00	39	S	6	r	28.55	-.100	37	35	+ 5	SSW	2	o	2	44	32	0.22		
Leith ...	28.99	40	S	4	o	28.64	-.95	42	40	+ 12	SW	4	o	*	52	29	0.45		
Shields ...	29.14	40	S	1	r	28.76	-.88	44	41	+ 8	WSW	2	c	2	52	35	0.22		
Scarborough ...	29.26	41	SSW	4	r	28.89	-.79	44	42	+ 9	WSW	5	c	4	50	35	0.55		
York ...	29.29	41	SSW	2	r	28.92	-.77	45	43	+ 10	WSW	6	c	*	51	33	0.53		
Nottingham ...	29.34	48	S	4	r	29.07	-.67	46	45	+ 12	SSW	4	o	*	54	34	0.24		
Ardrossan ...	28.73	57	SSW	4	o	28.61	-.95	44	43	+ 2	SW	3	r	5	52	39	0.48		
Greencastle ...	29.94	48	W	5	o	28.65	-.79	43	41	+ 3	W	4	o	*	50	39	0.97		
Donaghadee ...	30.00	57	SW	4	o	28.74	-.81	43	43	+ 3	W	7	o	5	52	38	0.35		
Kingstown ...	29.05	55	W	5	r	28.97	-.60	45	43	+ 1	W	6	r	5	55	42	0.42		
Holyhead ...	29.21	53	SW	5	m	28.96	-.65	48	45	+ 6	WSW	7	c	5	54	42	0.45		
Liverpool (Bidston) ...	29.20	57	SW	4	o	28.93	-.74	45	44	+ 5	WSW	8	r	5	54	40	0.67		
Valencia ...	29.29	52	WNW	7	c	29.24	-.38	49	43	- 5	W	8	c	7	55	47	0.26		
Roche's Point... ..	29.33	52	WSW	6	r	29.25	-.38	48	45	- 5	W	6	o	5	55	46	0.34		
Pembroke ...	29.38	54	WSW	8	om	29.15	-.46	52	47	- 1	W	9	o	7	54	30	0.21		
Portishead ...	29.48	52	S	5	r	29.24	-.53	50	46	+ 10	WSW	8	o	6	55	37	0.48		
Seilly ...																			
Plymouth ...	29.58	53	W	6	o	29.38	-.38	50	47	+ 3	WSW	6	o	*	56	47	0.21		
Hurst Castle ...	29.52	54	WSW	5	r	29.30	-.53	53	53	+ 7	W	6	o	6	55	35	0.15		
Dover ...	29.56	57	SSW	3	o	29.29	-.55	49	46	+ 10	WSW	4	o	4	54	38	0.43		
London ...	29.52	52	S	4	o	29.26	-.87	49	45	+ 11	W	5	o	*	55	37	0.27		
Oxford ...	*	*	*	*	*	29.22	-.59	47	44	+ 9	WSW	4	o	*	54	38	0.20		
Cambridge ...	29.43	47	S	2	r	29.16	-.66	46	44	+ 12	SW	3	c	*	55	34	0.17		
Yar mouth ...	29.47	45	SSW	6	r	29.13	-.64	47	44	+ 14	WSW	5	o	3	52	32	0.21		
The Helder ...	*	*	*	*	*	29.11	-.56	57	48	+ 5	SW	5	c	*	*	*	0.39		
Cape Gris Nez ...	29.60	46	S	6	r	29.25	-.52	52	50	+ 9	W	8	o	7	?	41	0.59		
Jersey ...	29.75	54	W	7	o	29.52	-.43	54	51	+ 9	W	7	c	6	55	42	0.45		
Brest ...	29.82	54	W	5	o	29.67	-.27	54	52	+ 2	WNW	5	o	5	55	50	0.12		
L'Orient... ..	29.90	54	W	5	m	29.70	-.32	55	55	+ 5	W	6	r	6	57	46	0.08		
Rochefort ...	30.00	55	WNW	7	r	29.88	-.23	57	55	+ 7	WSW	7	o	4	?	41	0.12		
Biarritz ...	30.15	59	SW	4	o	30.10	-.10	55	54	+ 5	SSW	5	o	3	59	48	0.04		
Corunna ...	*	*	*	*	*										*	*	*		
Brussels ...	*	*	*	*	*	29.36	-.30	57	*	+ 14	W	10	r	*	*	*	0.29		
Charleville ...	*	*	*	*	*	29.49	-.41	49	*	+ 18	SW	6	r	*	*	*	*		
Paris ...	29.83	42	SSW	5	o	29.58	-.40	53	51	+ 14	SW	5	o	*	*	*	0.08		
Lyons ...	*	*	*	*	*	30.02	-.09	49	*	+ 3	SE	2	o	*	*	*	*		
Toulon ...	29.87	45	WN	6	o	29.95	+ .16	48	43	+ 7	WN	6	o	7	48	43	-		

## YESTERDAY'S 2 P.M. REPORTS AND REMARKS.

	Bar.	Dry.	Wet.	Wind.	Wes.	Sea.		Bar.	Dry.	Wet.	Wind.	Wes.		
Skudesnaes ...	29.34	39	38	WNW	2	c	2	Valencia .....	29.41	55	54	WSW	8	ogm
Thurso .....	29.21	36	35	SSE	3	o	3	Seilly .....						
Scarborough ...	29.48	39	38	SSE	3	o	3	London .....	29.62	46	45	SW	3	od
Greencastle ...	29.15	43	43	W	1	r	*	Rochefort ...	30.01	54	52	WNW	6	r
Holyhead .....	29.26	52	51	SW	3	r	2							

Pressure falling briskly NW, and wind increased to a fresh gale in the SW. Sea is high off Valencia.  
 Harnings. The following has been sent to our NW, NNE, and NE<sup>th</sup> coasts. "Barometer falling quickly NW, wind increasing N. Joint north conv. 3-30 Wednesday.

## EXPLANATION OF COLUMNS.

**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.

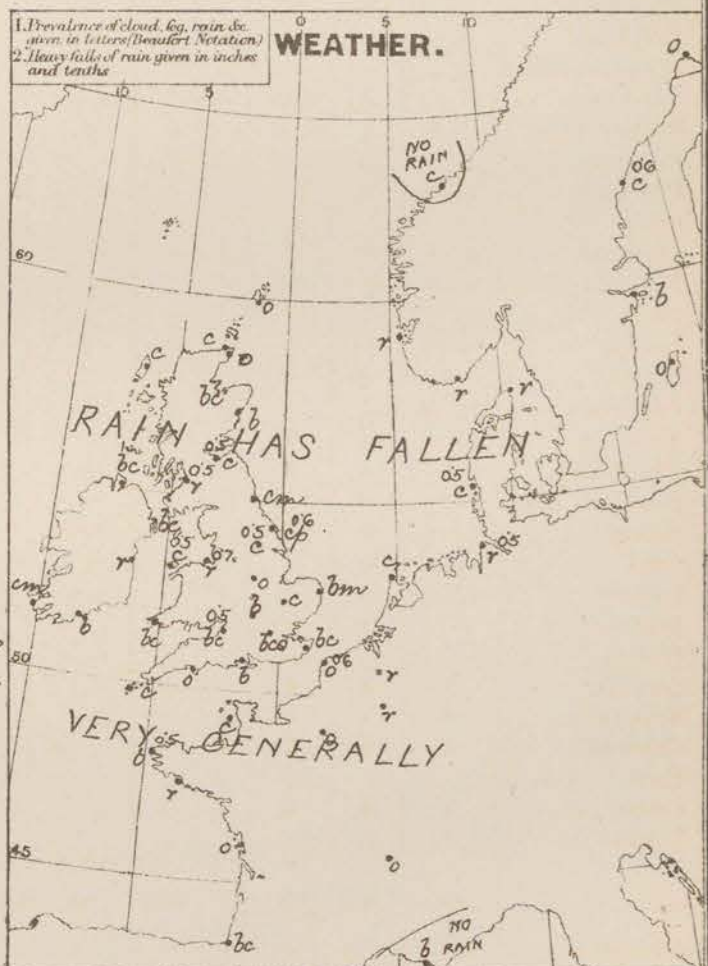
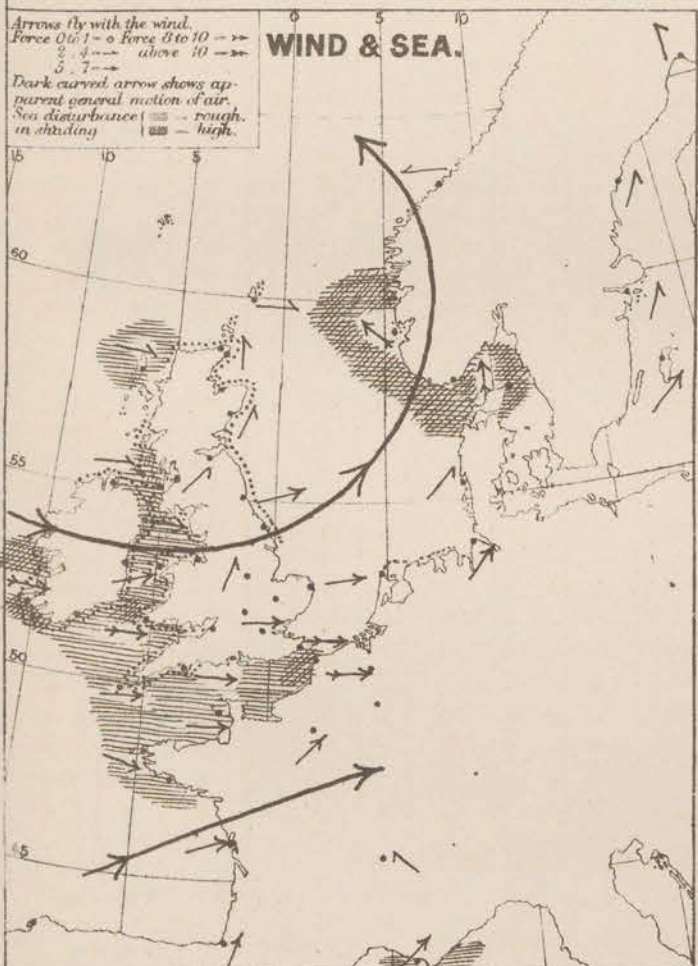
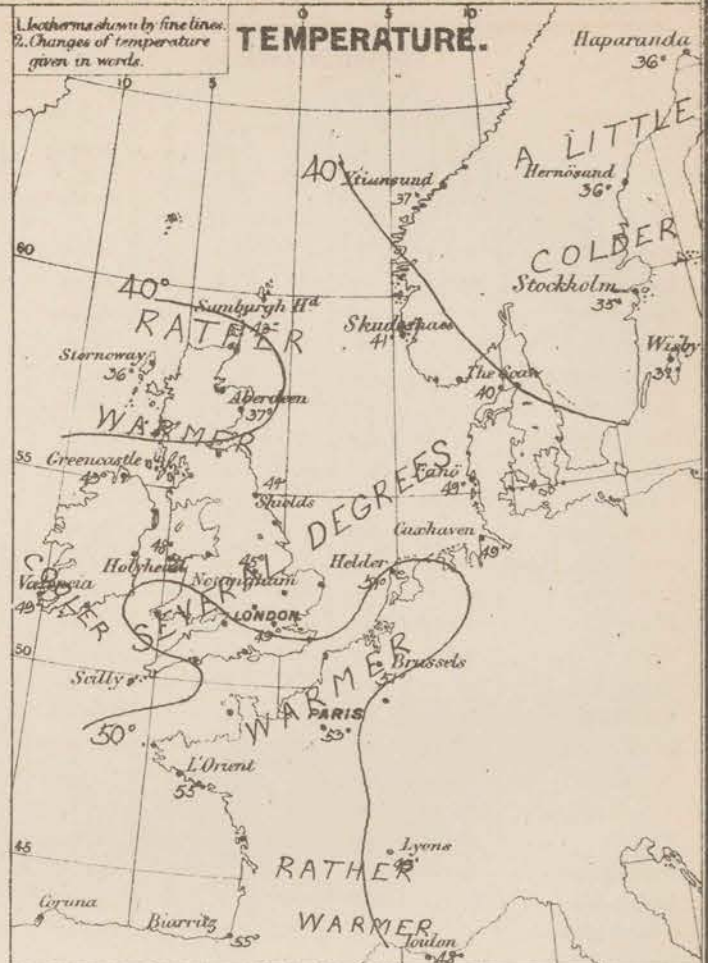
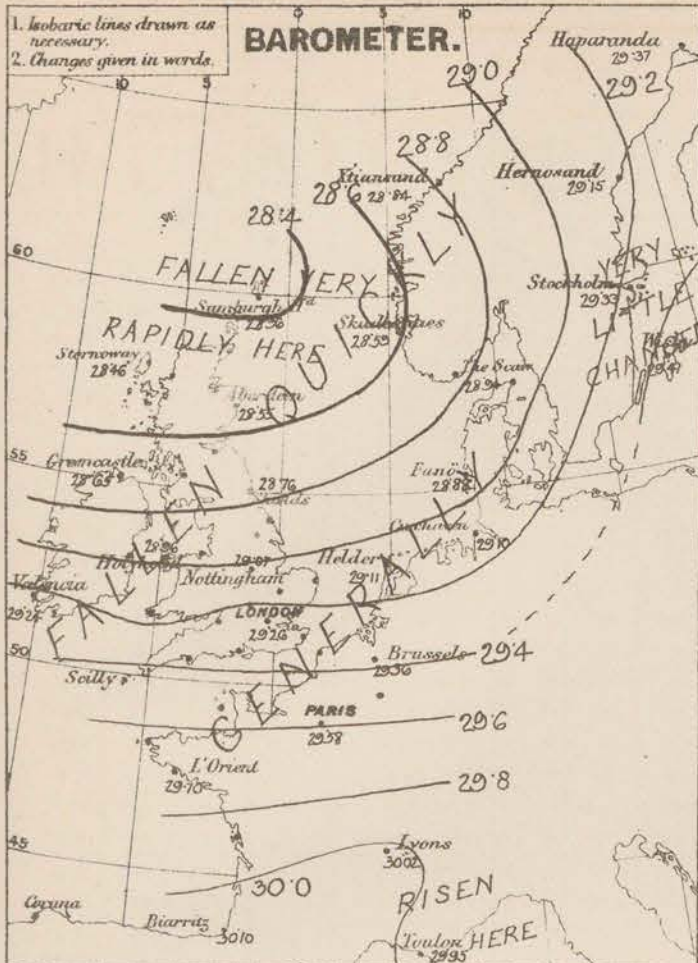
\* AN ASTERISK is inserted in all places for which information is not usually received.

† The evening observations are taken at 6 p.m. in our Islands, at 8 p.m. (Christiania time) in Sweden, Norway, and Denmark, and at 7 p.m. (Paris time) in France.

N.B.—The wind is said to "veer" when its direction changes with the sun, and to "back" when it shifts in the opposite direction.



# WEATHER CHARTS for 8 a.m. on Thursday Nov<sup>r</sup> 22<sup>nd</sup> 1877.



**REMARKS.** Weather is exceedingly unsettled; it is locally clear at some of our south-eastern stations, as well as at Cork and Aberdeen, but elsewhere it is dull or very cloudy, with rain and mist. Rain fell generally yesterday, nearly an inch at Greenacres and over half an inch at Harlow, York, Liverpool and Cape Breton. Lightning occurred at Portishead, and sleet at Harlow. Temperature has risen fast at our central and eastern stations as well as over France, but has fallen in the north-west, and changed little elsewhere. It varies from 36° to 44° over Scotland, from 43° to 49° over Ireland, and from 44° to 53° over England. Wind is W to NW on our own and the French coasts, and S to SE over Denmark and Norway. It blows a gale in the west, south, and east, but is moderate in the north. During last night the wind blew a fresh to hard gale at all the more southern and eastern stations. Sea is rough or high in the west and south, and, though moderate on our east coast, is very high out in the North Sea.

**Barometrical Indications.** A very deep depression has advanced to the neighbourhood of the Netherlands and the mercury has fallen over an inch in the north of Holland and to a less extent in all parts of Western Europe. Gradients are exceedingly steep over Ireland, and a difference of nearly two inches exists between Barmouth and Sumburgh.

**Warnings.** The following warning was sent to our west and north-east coasts yesterday afternoon:—"Barometer falling quickly north-west. Wind increasing west. Hoist 'North Line' 3.30 pm Wednesday." To our north and south-east coasts in the evening:—"Deep depression crossing over Scotland. Look out for NW gales in its rear. Hoist North Line. 7 pm Wednesday."

Subscription for these Charts payable in advance to cover delivery. Delivery by hand 10/- per quarter, book post 5/- per quarter.

Meteorological Office,  
116, Victoria Street, Westminster, S.W.

R. H. SCOTT.  
Secretary.



# DAILY WEATHER REPORT Nov 23<sup>rd</sup> 1877.

STATIONS.	† YESTERDAY EVENING.						8 A.M. TO DAY.										PAST 24 HOURS.		
	Barometer at 320 F. Sea Level.	Temp. in shade.	WIND.			Weather.	Barometer.		SEAS TEMP.			WIND.			Weather.	Sea. (0 to 9.)	SHADE TEMP.		Amount of Rainfall.
			Dir.	Force. (0 to 12).	Force. (0 to 12).		Reading at 320 F. and Sea Level.	Difference from 320 F. reducer.	Dry.	Wet.	Difference from 320 F. reducer.	Dir.	Force. (0 to 12).	Force. (0 to 12).			Max.	Min.	
Haparanda ...	29.21	35	S	4	0		29.13	- .24	33	33	- 3	SE	4	0	*	4	31	-	
Hernösand ...	28.95	36	S	5	2		28.89	- .26	36	35	0	Z	0	0	*	*	*	0.28	
Stockholm ...	28.90	41	SW	6	0		28.85	- .48	41	40	+ 6	S	2	2	*	*	*	0.12	
Wisby ...	29.08	44	SSW	8	0		28.97	- .50	43	41	+ 6	SSW	6	0	*	*	*	0.28	
Christiansund ...	28.62	37	ESE	1	0		28.69	- .15	36	35	- 1	SE	1	0	2	41	32	-	
Skudesnaes ...	28.56	43	SSE	4	0		28.54	- .02	39	37	- 2	ESE	2	0	5	47	37	0.04	
Oxö (Xtiansand) ...	28.66	46	S	4	0		28.70	- .04	37	36	- 3	NN	4	0	5	46	36	-	
Skagen (The Seaw) ...	28.74	44	WSW	5	0		28.71	- .23	41	40	+ 1	WSW	4	0	4	46	37	0.16	
Fanö ...	28.78	45	WSW	4	0		28.80	- .02	43	43	- 6	W	1	0	*	41	41	0.63	
Cuxhaven ...	29.03	42	SW	6	0		28.96	- .04	44	44	- 5	W	6	0	*	50	40	0.20	
Sumburgh Head ...	28.40	42	Z	0	0		28.81	+ .45	38	37	- 5	N	5	0	4	45	37	0.22	
Stornoway ...	28.54	41	NNW	2	0		29.32	+ .86	35	37	+ 2	NNW	7	0	4	42	35	0.29	
Thurso ...	28.46	40	WSW	1	0		29.08	+ .64	43	41	+ 5	NN	7	0	6	47	36	0.80	
Wick ...	28.48	39	W	3	0		29.08	+ .61	40	38	+ 2	N	5	0	3	46	36	0.21	
Nairn ...	28.57	40	SW	1	0		29.11	+ .59	42	40	+ 3	NN	6	0	5	45	37	0.29	
Aberdeen ...	28.56	40	WSW	1	0		29.03	+ .48	40	39	+ 3	NN	8	0	2	43	36	0.41	
Leith ...	28.69	42	WSW	3	0		29.22	+ .58	44	41	+ 2	NN	3	0	*	46	38	0.13	
Shields ...	28.69	44	W	1	0		29.18	+ .42	43	39	- 1	NN	7	0	2	48	40	0.01	
Scarborough ...	28.79	44	WSW	5	0		29.17	+ .28	45	41	+ 1	NN	5	0	4	46	42	0.22	
York ...	28.82	46	WSW	5	0		29.29	+ .87	44	41	- 1	W	3	0	*	49	41	0.07	
Nottingham ...	29.01	45	SW	7	0		29.40	+ .33	44	42	- 2	NN	7	0	*	51	41	0.19	
Ardrossan ...	28.71	45	NNW	3	0		29.28	+ .67	47	43	+ 3	NN	6	0	4	49	43	0.24	
Greencastle ...	28.77	45	W	4	0		29.45	+ .50	41	40	- 2	NN	3	0	*	47	39	0.97	
Donaghadee ...	28.85	43	NNW	6	0		29.43	+ .69	40	40	- 3	W	3	0	2	43	39	0.42	
Kingstown ...	29.03	45	W	7	0		29.57	+ .60	42	38	- 3	NN	5	0	4	48	43	0.16	
Holyhead ...	28.97	48	WSW	9	0		29.49	+ .53	45	42	- 3	NN	7	0	6	50	43	0.11	
Liverpool (Bidston) ...	29.49	48	NNW	8	0		29.80	+ .86	43	41	- 6	NN	4	0	4	54	42	0.19	
Valencia ...	29.38	48	NNW	7	0		29.76	+ .51	43	40	- 5	NN	4	0	4	51	42	0.14	
Roche's Point ...	29.22	50	NNW	3	0		29.67	+ .52	47	44	- 5	NN	6	0	4	52	47	0.08	
Pembroke ...	29.22	49	NNW	9	0		29.59	+ .35	45	42	- 5	NN	7	0	6	52	42	0.10	
Portishead ...	29.22	48	NNW	6	0		29.76	+ .38	44	42	- 6	WSW	4	0	*	53	44	0.07	
Scilly ...	29.42	51	W	6	0		29.61	+ .31	48	45	- 5	NN	5	0	5	53	47	0.03	
Plymouth ...	29.26	47	W	5	0		29.47	+ .18	45	40	- 4	W	6	0	4	52	44	0.03	
Hurst Castle ...	29.24	45	W	4	0		29.53	+ .27	44	40	- 5	NN	6	0	4	54	43	0.05	
Dover ...	29.24	45	W	4	0		29.55	+ .33	43	39	- 4	W	5	0	4	50	43	0.05	
London ...	29.10	44	SW	5	0		29.43	+ .27	45	41	- 1	SW	3	0	*	52	42	0.14	
Oxford ...	29.05	45	WSW	6	0		29.25	+ .12	45	42	- 2	NN	7	0	3	50	42	-	
Cambridge ...	29.05	45	WSW	6	0		29.03	- .08	48	46	- 3	NN	7	0	*	*	*	0.12	
Yar-nouth ...	29.05	45	WSW	6	0		29.03	- .08	48	46	- 3	NN	7	0	*	*	*	0.12	
The Helder ...	29.29	52	W	10	0		29.49	+ .14	48	43	- 4	NN	10	0	8	54	43	0.04	
Cape Gris Nez ...	29.53	57	W	9	0		29.80	+ .29	47	45	- 7	W	7	0	6	62	46	0.12	
Jersey ...	29.71	54	NNW	5	0		29.93	+ .26	50	46	- 4	NN	4	0	5	55	46	0.08	
Brest ...	29.71	50	NNW	6	0		29.98	+ .28	50	48	- 5	NN	4	0	4	57	46	0.08	
L'Orient ...	29.82	57	W	7	0		29.96	+ .08	52	48	- 5	NN	5	0	4	57	45	0.10	
Rochefort ...	29.06	59	SW	4	0		30.12	+ .02	51	52	- 1	NN	5	0	5	61	50	0.24	
Biarritz ...	29.06	59	SW	4	0		30.12	+ .02	51	52	- 1	NN	5	0	5	61	50	0.24	
Corunna ...	29.45	46	NNW	9	0		29.45	+ .09	46	46	- 5	NN	9	0	*	*	*	0.08	
Brussels ...	29.45	46	NNW	9	0		29.45	+ .09	46	46	- 5	NN	9	0	*	*	*	0.08	
Charleville ...	29.45	46	NNW	9	0		29.45	+ .09	46	46	- 5	NN	9	0	*	*	*	0.08	
Paris ...	29.55	50	WSW	3	0		29.77	+ .19	46	42	- 7	WSW	3	0	*	*	*	0.16	
Lyons ...	29.97	57	NN	1	0		29.90	- .05	55	52	+ 7	W	7	0	7	57	48	-	
Toulon ...	29.97	57	NN	1	0		29.90	- .05	55	52	+ 7	W	7	0	7	57	48	-	

## YESTERDAY'S 2 P.M. REPORTS AND REMARKS.

	Bar.	Dry.	Wet.	Wind.	Wes.	Sea.		Bar.	Dry.	Wet.	Wind.	Wes.	Sea.		
Skudesnaes ...	28.57	44	41	E N E	6	7	5	Valencia .....	29.35	50	44	W	8	c g m	7
Thurso .....	28.44	40	39	S W	1	7	2	Scilly .....							
Scarborough ...	28.50	45	43	W S W	7	c	5	London .....	29.22	48	44	W	8	c	*
Greencastle ...	29.63	45	43	W	5	n	*	Rochefort ...	29.80	57	55	W	9	r	8
Holyhead .....	28.97	49	45	W S W	8	a	7								

*Pressure has recovered somewhat during the morning, in the SW, but has continued to decrease at the more E and NW stations. Wind blows a fresh or slight gale from W. in the W. and NE.*

## EXPLANATION OF COLUMNS.

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

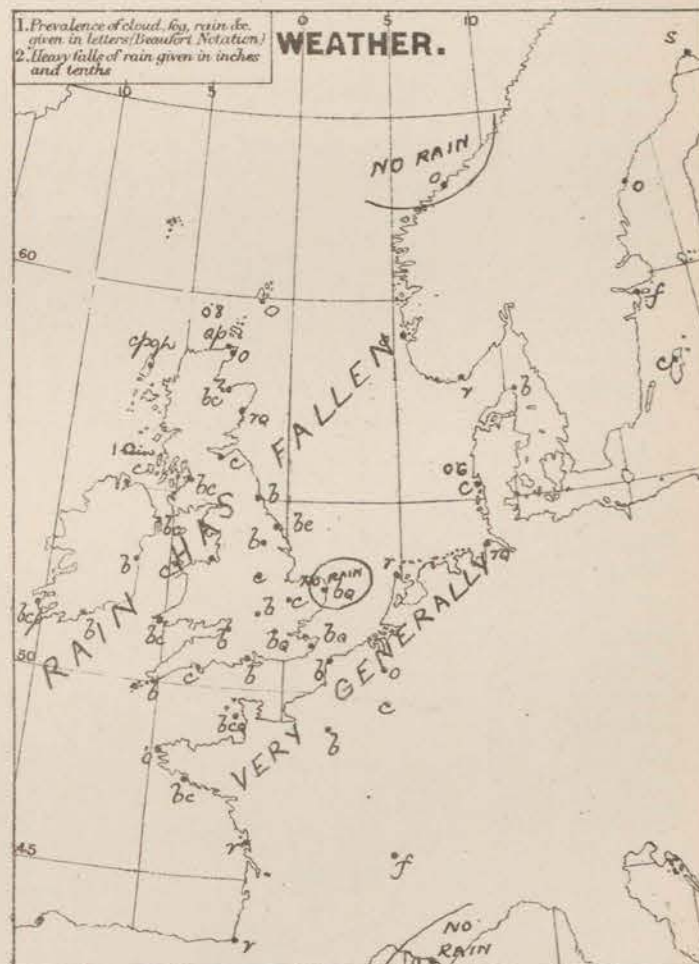
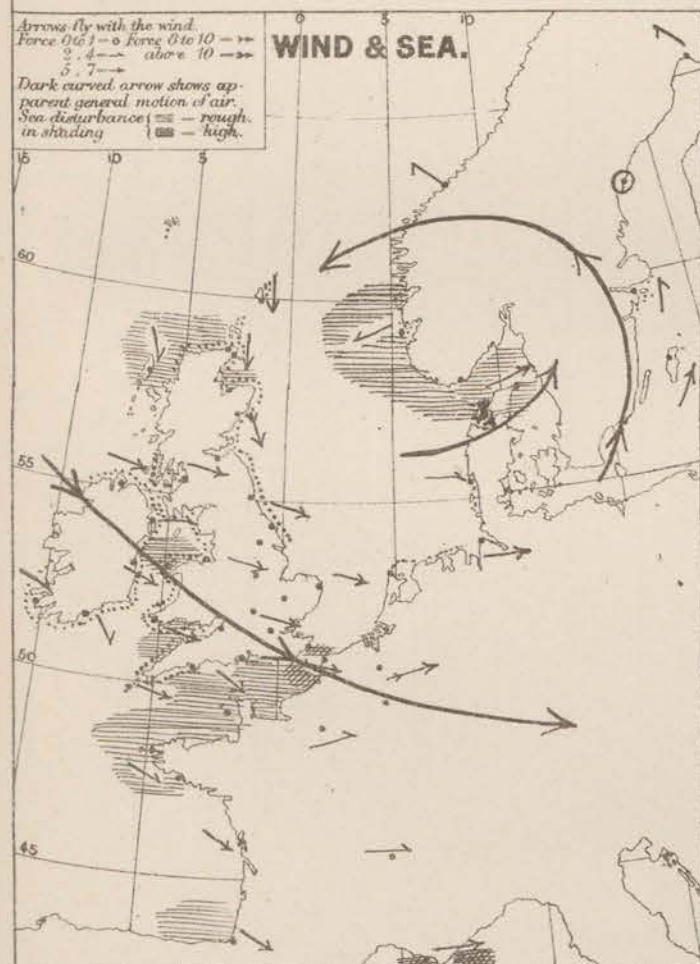
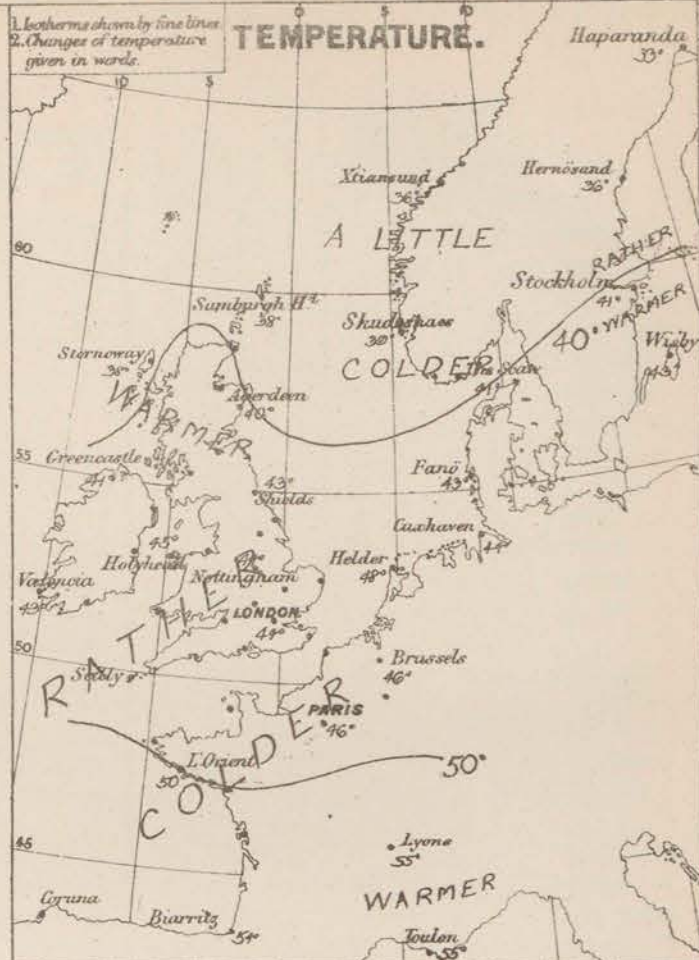
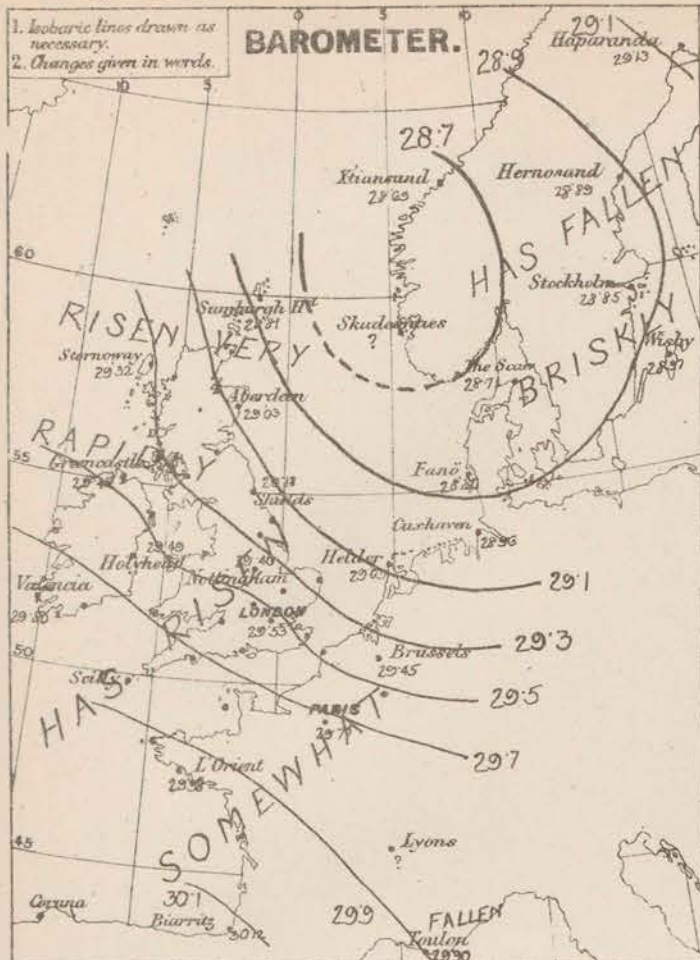
\* AN ASTERISK is inserted in all places for which information is not usually received.

† The evening observations are taken at 6 p.m. in our Islands, at 8 p.m. (Christiania time) in Sweden, Norway, and Denmark, and at 7 p.m. (Paris time) in France.

N.B.—The wind is said to "veer" when its direction changes with the sun, and to "back" when it shifts in the opposite direction.



# WEATHER CHARTS for 8 a.m. on Friday Nov<sup>r</sup> 23<sup>rd</sup> 1877.



**REMARKS.** Weather is clear or nearly so over England and Ireland, but is cloudy in Scotland and on the Continent generally; showers are falling at some of our western stations, rain in the west of France and North Germany and snow at Haparanda. Rain fell generally yesterday, accompanied by thunder, lightning and hail in some places. Temperature has risen slightly in Scotland, but fallen elsewhere; it is very uniform, varying from 38° to 47° over Scotland, from 40° to 43° over Ireland and from 43° to 47° over England. Wind is N<sup>W</sup> to NW over these Islands and the west of France, W in the Netherlands and SW over Denmark and Sweden; on our coasts it is still strong to a gale, and during last night it blew a fresh to hard gale generally. Sea is moderate to rough.

**Barometrical Indications.** The deep depression noticed near the Netherlands yesterday is now shown over Norway, the barometer is consequently falling at the Scandinavian stations, while it is rising at all our own and the French. In the north-west the increase has been very rapid.

**Warnings.** The warning signals are still displayed on our south-west, west, north and north-east coasts.



# DAILY WEATHER REPORT NOV 24<sup>TH</sup> 1877.

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.	
			Dirco.	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.	Dirco.	Force. (0 to 12).			Max.	Min.		
Haparanda ...														*				
Hernösand ...														*	*	*		
Stockholm ...														*	*	*		
Wisby ...														*	*	*		
Christiansund ...																		
Skudesnaes ...																		
Oxö (Xtiansand) ...																		
Skagen (The Seaw) ...	28.93	40	NNW	3	v	29.09	+ .38	39	37	- 2	NN	3	6	2	43	36	-	
Fanö ...	29.16	44	NNW	6	v	29.33	+ .53	43	41	0	NNW	6	c	*	46	41	0.16	
Cuxhaven ...	29.07	*	NNW	10	r	29.49	+ .53	44	43	0	NNW	4	*	*	?	41	0.21	
Sumburgh Head ...	29.23	39	N	6	r	29.44	+ .63	35	33	- 3	NE	2	6c	2	42	33	0.04	
Stornoway ...	29.44	31	NN	2	6	29.39	+ .07	31	30	- 7	NN	2	ovw	4	41	28	0.01	
Thurso ...	29.38	40	NN	5	c	29.46	+ .38	28	27	- 15	Z	0	6m	3	45	26	0.03	
Wick ...	29.39	37	N	3	6c	29.47	+ .39	30	29	- 10	NN	1	c	2	41	25	-	
Nairn ...	29.44	35	NN	1	6	29.44	+ .33	30	28	- 12	Z	0	6	1	42	29	-	
Aberdeen ...	29.41	37	NNW	2	6	29.48	+ .45	28	28	- 12	WSW	1	6m	2	42	28	0.07	
Leith ...	29.48	40	N	2	6	29.48	+ .26	29	29	- 15	S	1	6c	*	30	28	-	
Shields ...	29.49	41	NNW	3	6m	29.51	+ .33	35	34	- 8	Z	0	6	2	46	32	-	
Scarborough ...	29.51	41	NNW	4	6	29.52	+ .35	36	35	- 9	N	1	6c	3	47	35	-	
York ...	29.57	39	NNW	1	6	29.53	+ .24	32	32	- 12	SSW	1	6	*	49	32	-	
Nottingham ...	29.64	38	NNW	1	6	29.53	+ .13	30	30	- 14	Z	0	of	*	46	30	0.07	
Ardrossan ...	29.53	42	NNW	1	rm	29.44	+ .16	36	35	- 11	E	2	6m	1	48	36	0.08	
Greencastle ...	29.56	40	N	3	r	29.38	- .07	35	34	- 6	N	1	0	*	47	33	0.12	
Donaghadee ...	29.61	40	N	3	6	29.44	+ .01	31	31	- 9	WSW	2	6	1	43	30	0.01	
Kingstown ...	29.68	42	N	2	6	29.43	- .14	39	36	- 3	S	2	6c	1	45	38	-	
Holyhead ...	29.65	45	N	4	6c	29.43	- .06	37	37	- 8	SSW	1	6	1	47	37	-	
Liverpool (Bidston) ...	29.63	41	N	6	0	29.48	- .05	34	34	- 11	SE	3	6	1	47	34	0.09	
Valencia ...	29.71	44	Z	0	c	29.34	- .46	40	39	- 3	Z	0	r	1	48	39	0.39	
Roche's Point... ..	29.71	44	N	2	6c	29.35	- .41	42	41	- 1	ENE	2	c	3	49	37	-	
Pembroke ...	29.75	47	WSW	4	0	29.37	- .39	44	44	- 3	E	3	0	2	49	44	0.07	
Portishead ...	29.74	44	WSW	3	c	29.46	- .13	41	41	- 4	E	3	r	3	48	39	0.07	
Scilly ...																		
Plymouth ...	29.82	45	N	2	0	29.38	- .38	45	45	+ 1	Z	0	or	*	49	43	0.28	
Hurst Castle ...	29.75	46	NN	1	6c	29.41	- .20	46	42	- 2	SE	2	r	2	49	42	0.22	
Dover ...	29.73	43	NNW	5	6	29.56	+ .09	46	44	+ 1	S	3	or	3	48	38	0.02	
London ...	29.73	43	N	2	6	29.34	+ .01	38	38	- 6	E	1	6	*	49	34	-	
Oxford ...	*	*	*	*	*	29.52	- .03	34	34	- 9	Z	0	df	*	47	33	0.01	
Cambridge ...	29.66	41	WSW	3	6	29.56	+ .13	32	31	- 13	Z	0	c	*	50	30	-	
Yar mouth ...	29.57	42	NNW	6	6g	29.58	+ .33	44	34	- 14	Z	0	f	3	47	33	-	
The Helder ...	*	*	*	*	*	29.58	+ .55	45	42	- 3	WSW	2	c	*	*	*	0.12	
Cape Gris Nez ...	29.72	46	NNW	7	6	29.58	+ .09	43	43	- 5	SSE	1	r	1	50	41	0.08	
Jersey ...	29.89	49	N	5	0	29.48	- .32	47	47	0	SE	3	0	3	51	40	0.44	
Brest ...	29.94	52	NNW	3	0	29.49	- .44	54	52	+ 4	N	4	r	6	?	48	0.59	
L'Orient ...	29.97	48	NNW	4	r	29.57	- .41	54	54	+ 4	WSW	7	r	7	55	46	0.43	
Rochefort ...	30.04	54	NNW	4	r	29.76	- .20	57	55	+ 5	WSW	8	0	7			0.24	
Biarritz ...	30.12	57	SW	4	f	29.98	- .14	54	54	0	S	3	6c	5	61	50	0.16	
Corunna ...	*	*	*	*	*									*	*	*	*	
Brussels ...	*	*	*	*	*	29.66	+ .21	41	*	- 5	SW	6	0	*	*	*	*	
Charleville ...	*	*	*	*	*	29.68	+ .12	41	*	- 2	SSW	3	r	*	*	*	*	
Paris ...	30.26	45	WSW	3	6c	29.56	- .21	41	?	- 5	SE	3	s	*	*	*	*	
Lyons ...	*	*	*	*	*	29.89	?	57	*	- 4	SE	4	p	*	*	*	*	
Toulon ...	30.27	52	NN	6	6	30.01	+ .11	50	46	- 5	N	5	m	5	59	54	-	

## YESTERDAY'S 2 P.M. REPORTS AND REMARKS.

	Bar.	Dry.	Wet.	Wind.	Wes.	Sea.		Bar.	Dry.	Wet.	Wind.	Wes.	Sea.		
Skudesnaes ...	28.86	42	40	NN	2	0	4	Valencia .....	29.77	47	43	N	2	op	3
Thurso .....	29.30	41	38	NN	6	c	6	Scilly .....							
Scarborough ...	29.43	46	42	NN	5	6	4	London .....	29.66	49	43	NNN	4	6c	*
Greencastle ...	29.53	43	40	N	2	6c	*	Rochefort ...	30.04	54	50	NNN	5	0	5
Holyhead .....	29.65	45	42	N	6	6c	5								

The mercury has begun to fall again at Valencia though it is still rising elsewhere. The wind has backed slightly in the West. -

## EXPLANATION OF COLUMNS.

**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.

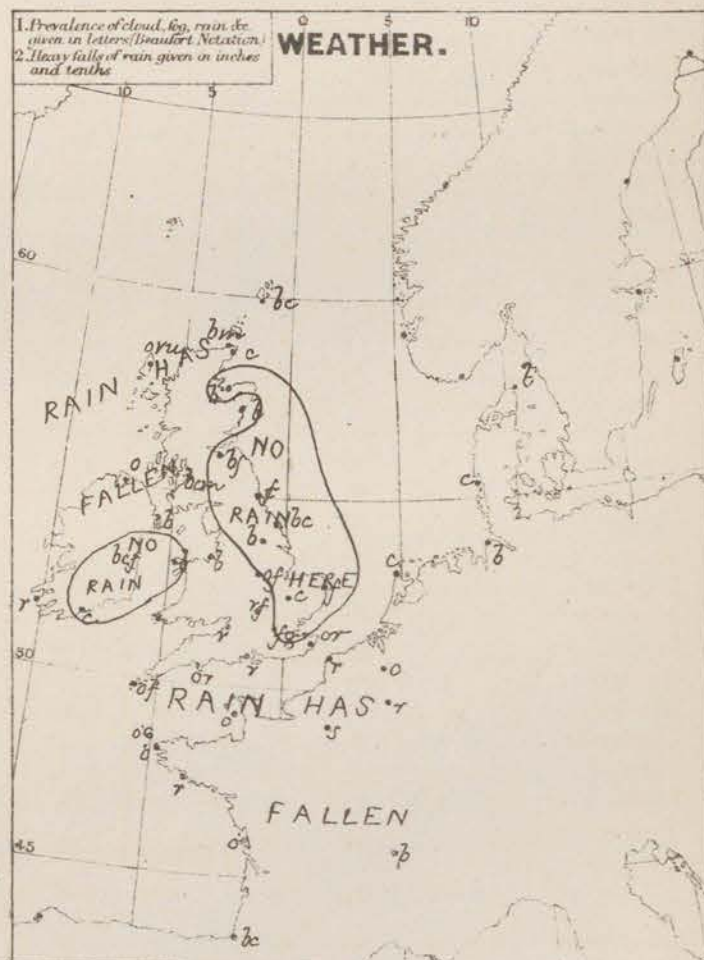
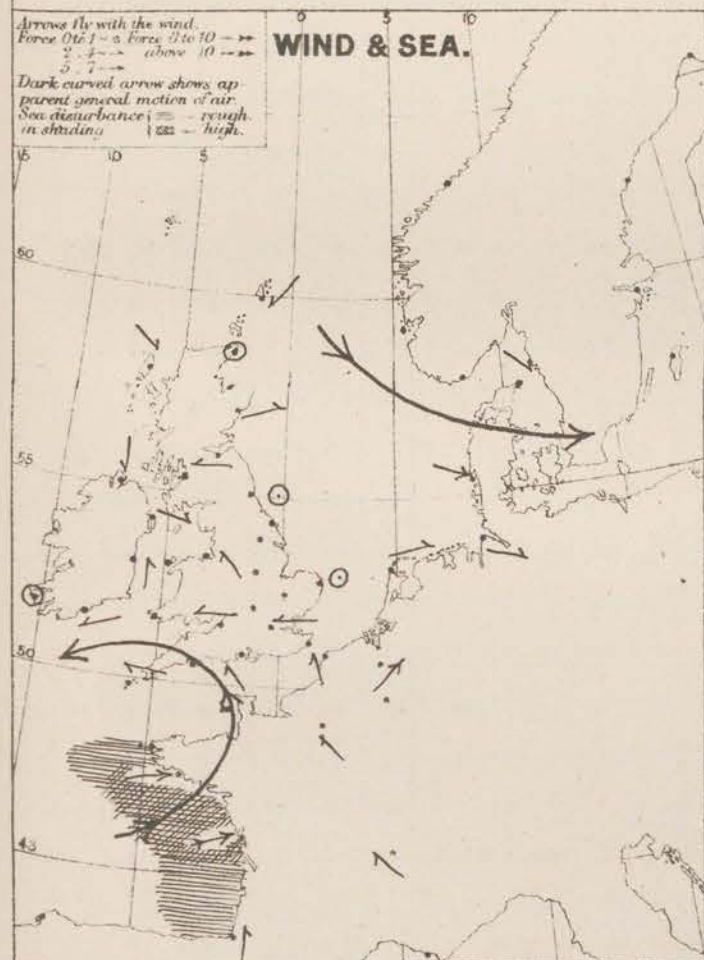
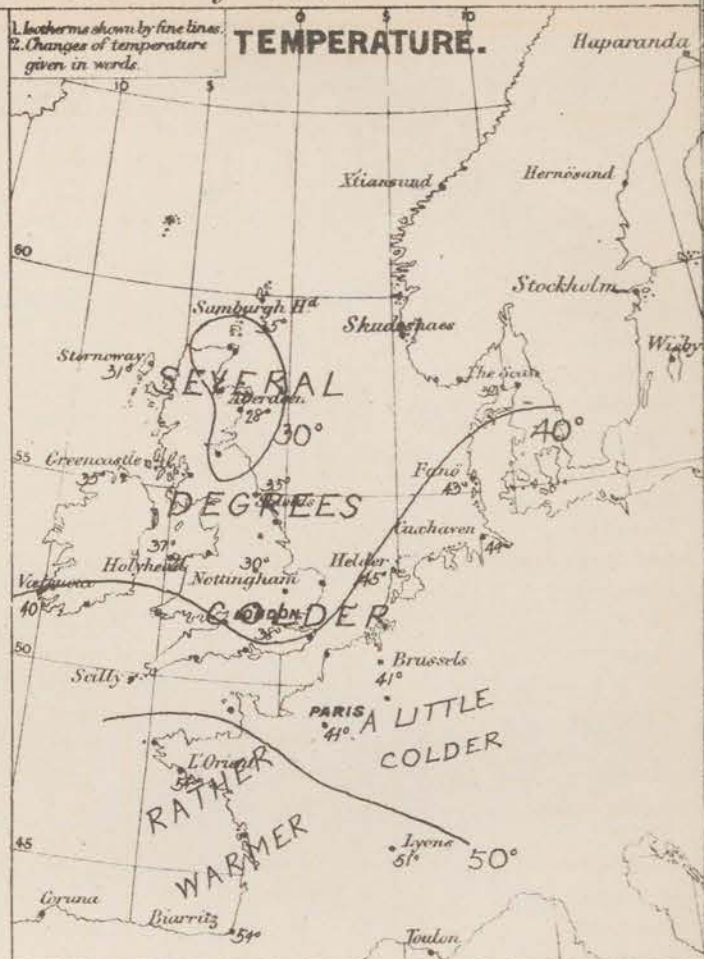
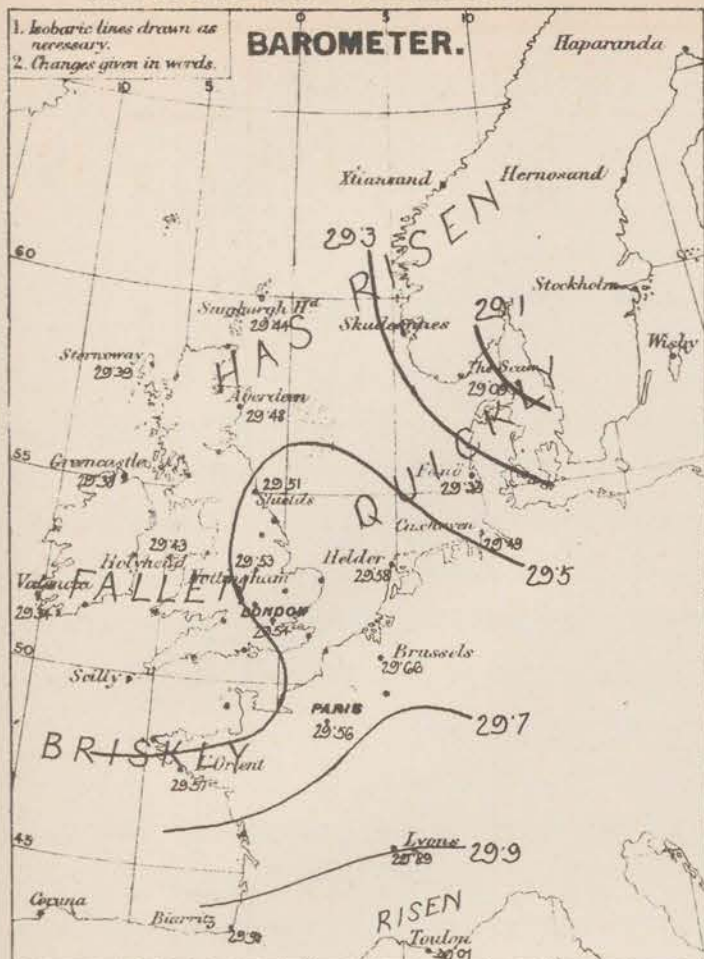
\* AN ASTERISK is inserted in all places for which information is not usually received.

† The evening observations are taken at 6 p.m. in our Islands, at 8 p.m. (Christiania time) in Sweden, Norway, and Denmark, and at 7 p.m. (Paris time) in France.

N.B.—The wind is said to "veer" when its direction changes with the sun, and to "back" when it shifts in the opposite direction.



# WEATHER CHARTS for 8 a.m. on Saturday Nov<sup>r</sup> 24<sup>th</sup> 1877.



**REMARKS.** Weather is fine in the east of Scotland and at some of the north western stations but is dull or very cloudy elsewhere, with rain and fog over southern England and the north of France, sleet at Paris. Rain fell over France and at our southern and western stations yesterday. Lunar halo was seen in Oxford and London last night. Temperature has risen in the west of France, but has fallen elsewhere — several degrees over 5° Britain, where the thermometer is now low; it varies from 28° to 36° over Scotland, from 31° to 42° over Ireland, and from 30° to 48° over England. It fell to 25° in the shade in Caithness last night, to 21° at Leith and to 30° over Central England, while the temperature on the grass in London was 26°. Wind is light from SE to E over England and from NW in Scotland, while it is strong from W over Denmark and reaches a gale from the same quarter over the Bay of Biscay. Sea is high on the west coast of France, smooth at our ports.

**Barometrical Indications.** Yesterday's disturbance appears to have passed E<sup>o</sup> over Scandinavia, and the barometer is still rising at the eastern and northern stations, but a large area of low readings is shown off our western coasts, and the mercury has fallen briskly during the night.

Subscription for these Charts payable in advance to cover delivery. Delivery by hand 4s per quarter, book post 5s per quarter.

Meteorological Office,  
116, Victoria Street, Westminster, S.W.

R. H. SCOTT.  
Secretary.



# SUMMARY OF WEATHER IN WESTERN EUROPE

from NOV<sup>r</sup> 18<sup>th</sup> to NOV<sup>r</sup> 24<sup>th</sup> 1877.

(Issued Weekly as a Supplement to the "Daily Weather Report.")

Another week of very stormy unsettled weather has to be chronicled. The depressions which have given us these conditions have passed directly across these Islands or their immediate neighbourhood so that while N<sup>W</sup> to S<sup>W</sup> gales have prevailed as in the previous weeks, N<sup>W</sup> gales have likewise been felt, while on Saturday when a small but rather deep disturbance passed up the Channel, S<sup>E</sup> to E<sup>W</sup> gales were reported, which were very violent on the Kentish coast. Temperature has oscillated considerably, the thermometer having fallen very quickly on the days when the N<sup>W</sup> winds dominated. Weather though fine occasionally has been very uncertain and on the greater number of days rain was exceedingly general.

NOV<sup>r</sup> 18<sup>th</sup> The mercury was rising somewhat in Sweden, but was falling over the whole of N<sup>W</sup> Europe - mat on our NE. coast. The highest pressures (30.2 ins.) lay over France and North Germany, while the lowest reported was 29.54 ins at Lumburgh Head and Christiansund. A series of depressions was passing NE<sup>W</sup> to the N<sup>W</sup> of these Islands. Wind was generally E<sup>W</sup> over France, N<sup>W</sup> to S<sup>W</sup> on our coasts, and S<sup>E</sup> on the eastern shores of the North Sea. It was fresh in places and blew a gale at Skudermals. Temperature had changed very little over France, while it had fallen in Sweden and risen slightly elsewhere. Weather was fine over the greater part of Scotland, at some of our east coast stations, and in the S. of Ireland, but was overcast or very cloudy in most other places with fog and mist. During the day little change occurred except in the N. where the barometer was falling briskly.

NOV<sup>r</sup> 19<sup>th</sup> The barometer had fallen in all places. The area of high readings (30.2 ins.) still lay over Central France, while a large depression was shown near Christiansund (29.25 ins.) a smaller subsidiary one was advancing over Ireland. At Valentia the mercury was rising quickly. The wind was N<sup>W</sup> both at Valentia and Lumburgh Head, but was S<sup>E</sup> to S<sup>W</sup> in nearly all other places; it was light or moderate on most coasts, but blew rather strongly over the North Sea. Temperature was rather higher than on the previous day, in the extreme N. and S<sup>W</sup>, but was lower elsewhere; it was low (below 40°) over the eastern and central part of Great Britain. Weather was locally clear in the northeast of Scotland, but dull at most stations with rain in the west of these Islands and Norway. Later reports showed that the smaller disturbance was passing E<sup>W</sup> across these Islands, the barometer was rising at Valentia and the wind in the west had veered to N<sup>W</sup> and freshened.

NOV<sup>r</sup> 20<sup>th</sup> The depression which passed from west to east across these Islands had become much deeper during its passage. Its centre lay near Skudermals (29.18 ins.) and the mercury was rising at all our more N<sup>W</sup> and N<sup>W</sup> stations, though it still fell in the E. and S<sup>E</sup>, as well as on the E<sup>W</sup> shores of the North Sea. Wind was N<sup>W</sup> to N<sup>W</sup> on our coasts, N<sup>W</sup> to N<sup>W</sup> over the Channel and France, S<sup>E</sup> over Denmark, and NE<sup>W</sup> at Skudermals and Lumburgh Head. It was rather strong in force on most coasts and increased to a moderate to fresh gale in some places, and to a hard gale at Holyhead and Ork. Weather was fine over the greater part of the Kingdom, though showers of sleet were reported at Stornoway, and of rain at Valentia. Rain was also falling over the N. of France, Denmark and Norway. During the day the barometer continued to rise generally, and the N<sup>W</sup> gale extended to our NE. coast also.

NOV<sup>r</sup> 21<sup>st</sup> The depression of the previous day lay over Norway and was apparently filling up slightly though the mercury was still falling at most of the Swedish stations. Over the west of Norway, Denmark, and at all the more eastern of our own and the French stations the barometer



was still rising, but in the N. a fresh and brisk decrease had set in. The highest reading was at Biarritz (30.20 ins.) whence pressure decreased to 29.4 ins. at Hordovay and 29.2 ins. at Christiansund. Wind was S<sup>W</sup> both on our N.W. coasts and in Sweden, but was N<sup>E</sup> to S<sup>W</sup> generally. It was light in force except in the S<sup>W</sup>, but had fallen at all the more N<sup>W</sup> and E<sup>W</sup> stations, where it was very low. Weather was dull and cloudy in the N. and N. with rain in the S<sup>W</sup>, but moderately fine in the east. During the day a large depression, advanced to the neighbourhood of the Hebrides, and the barometer fell three quarters of an inch in the N.W. of Scotland, and to a less extent in nearly all parts of N.W. Europe. At the same time the N<sup>E</sup> wind increased to a gale in the S<sup>W</sup>.

NOV<sup>r</sup> 22<sup>nd</sup> The centre of the deep depression noticed on the previous evening, lay near the Shetlands (28.36 ins.) and the mercury had fallen at all stations except Toulon. The decrease varied from 1 in. in the N.E. of Scotland to 0.1 in. in the S<sup>W</sup> of France, where the highest readings were shown. Gradients were very steep and the wind strong to a gale on all except the north Scotch coasts. During the previous night a hard and very general gale had been experienced. The wind was N<sup>E</sup> over these Islands and France, and S<sup>E</sup> in North Germany, Denmark, and Norway. Temperature had fallen somewhat in the S<sup>W</sup>, risen elsewhere, quickly in the S.E. Weather was very unsettled, and dull, and wet in most places. The depression was moving away E<sup>W</sup> at 6 P.M. and the barometer rising in the N. and N. but the gale still held in the N. and S<sup>W</sup>, though the wind had veered to N.W.

NOV<sup>r</sup> 23<sup>rd</sup> The deep depression lay over the S. of Scandinavia. The mercury was still falling in Sweden but rising in all other places. Gradients were still steep at the E<sup>W</sup> and S.E<sup>W</sup> stations, and pressure varied from 30.12 ins. at Biarritz to 28.70 ins. at Olo. Wind was N<sup>E</sup> over Scotland, N.W. in the other parts of these Islands and over France, S.W. in the Netherlands, and S<sup>E</sup> in Sweden. It had blown a fresh to hard gale generally, and was still very strong on most coasts at 8 am. Temperature had risen slightly in the N. but fallen a few degrees elsewhere. Weather was fine over the greater part of the British Isles, but was dull and wet in Scotland, north Germany, and the west of France. Later Reports showed a fresh fall of the barometer commencing in the S<sup>W</sup>, with the wind backing to west.

NOV<sup>r</sup> 24<sup>th</sup> The distribution of pressure was very irregular, it was highest (30.1 ins.) at Toulon, while three depressions were shown, one at the mouth of the Channel, a second lying off the north-west of Scotland, and a third, that of the past two days, disappearing over the Baltic. Wind was strong to a gale over France, light from S. over the E<sup>W</sup> part of the Channel, and from east over the south of England and Ireland. On the E<sup>W</sup> shores of the North Sea a separate circulation was shown. Temperature had fallen over these Islands and the N.E. of France - very quickly at our more eastern stations. Weather was moderately clear in the N. and N., but was dull in the S. with rain on our south coast and in the north of France, sleet at Paris. The depression noticed in the S<sup>W</sup> in the morning subsequently advanced up the Channel, and a S.E. <sup>to N.E.</sup> gale was experienced which was very violent on our S.E. coasts, and a heavy N.W. gale blew at the mouth of the Channel during the afternoon and evening.

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Meteorological Office,  
116, Victoria Street, Westminster, S.W.  
ROBERT H. SCOTT, Secretary.



# DAILY WEATHER REPORT NOV. 25<sup>TH</sup> 1877.

STATIONS.	† YESTERDAY EVENING..						8 A.M. TO DAY.										PAST 24 HOURS.		
	Barometer at 32° F. and Sea Level.	Temp. in shade.	WIND.		Force, (0 to 12).	Weather.	BAROMETER.		SHADE TEMP.			WIND.		Force, (0 to 12).	Weather.	Sea, (0 to 9.)	SHADE TEMP.		Amount of Rainfall.
			Dirco.	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.	Dirco.	Force, (0 to 12).				Max.	Min.	
Haparanda ...	29.25	36	E	2	0		29.34	+ .05	36	35	+ 4	SE	2	0	*		36	32	-
Hernösand ...	29.16	37	NE	2	0		29.25	+ .29	35	34	- 3	NE	2	0	*		*	*	0.08
Stockholm ...	29.13	40	SH	2	f		29.24	+ .27	36	35	- 4	SSH	2	r	*		*	*	0.02
Wisby ...	29.19	41	SSH	6	c		29.29	+ .23	38	36	- 3	SH	4	0	*		*	*	0.04
Christiansund ...	29.32	36	SH	3	r		29.42	+ .26	36	35	- 2	SH	3	0	4		37	32	0.59
Skudesnaes ...	29.33	38	NNW	5	c		29.42	+ .16	35	32	- 2	N	4	6	2		41	?	-
Oxö (Xtiansand) ...	29.22	39	NNW	4	δ		29.33	+ .21	38	35	- 1	N	4	c	2		41	36	-
Skagen (The Seaw) ...	29.22	39	NNE	2	δ		29.29	+ .20	38	35	- 1	NE	3	6	1		43	34	-
Fanö ...	29.29	37	SSH	2	δ		29.26	- .07	36	34	- 6	Z	0	m	*		43	32	0.08
Cuxhaven ...	29.45	42	SH	2	c		29.21	- .28	39	39	- 5	NE	4	0	*		43	36	-
Sumburgh Head ...	29.49	33	Z	0	δ		29.49	+ .05	35	33	0	NNE	1	6	0		38	30	0.12
Stornoway ...	29.45	36	NNE	2	0		29.68	+ .29	34	32	+ 3	H	1	c	3		37	28	0.14
Thurso ...	29.47	33	Z	0	δ		29.37	+ .18	38	37	+ 10	NNH	3	c	4		41	27	0.12
Wick ...	29.50	39	S	2	δ		29.87	+ .80	33	32	+ 3	SH	0	δesp	2		41	27	0.04
Nairn ...	29.48	32	Z	0	δ		29.64	+ .20	32	31	+ 2	Z	0	δ	0		35	28	0.04
Aberdeen ...	29.48	34	Z	0	δ		29.60	+ .12	36	33	+ 8	H	1	δ	1		36	28	0.02
Leith ...	29.47	34	SE	2	δ		29.66	+ .18	34	34	+ 5	SSH	2	c	*		44	28	-
Shields ...	29.43	42	ENE	4	δ		29.67	+ .16	33	34	- 2	NNH	3	cm	1		43	31	-
Scarborough ...	29.37	43	E	4	δc		29.67	+ .15	38	35	+ 2	H	1	δ	3		44	36	-
York ...	29.37	35	NE	1	δ		29.71	+ .48	37	30	- 1	NNH	2	6	*		37	30	-
Nottingham ...	29.27	39	ENE	4	0		29.74	+ .35	35	32	+ 5	NNH	2	6	*		39	28	0.09
Ardrossan ...	29.45	36	NNH	2	6		29.71	+ .27	37	36	+ 1	N	2	6	2		40	33	0.04
Greencastle ...	29.40	39	NNH	2	0		29.76	+ .38	40	38	+ 5	N	2	c	*		41	34	0.26
Donaghadee ...	29.44	42	ESE	3	δc		29.75	+ .31	41	40	+ 10	N	3	6	2		43	30	0.03
Kingstown ...	29.34	45		5	δc		29.81	+ .40	37	37	+ 1	H	5	6	4		46	38	0.11
Holyhead ...	29.32	42	E	4	δ		29.75	+ .32	44	42	+ 7	NNH	4	c	3		46	37	-
Liverpool (Bidston) ...	29.32	38	ENE	3	0		29.73	+ .25	40	38	+ 6	NNH	1	c	1		43	34	-
Valencia ...	29.45	45	N	5	c		29.98	+ .64	44	41	+ 4	NNH	2	δc	3		47	38	0.37
Roche's Point ...	29.44	40	NNW	5	c		29.93	+ .58	40	38	- 2	NNW	4	δ	3		44	38	0.10
Pembroke ...	29.18	42	NE	5	0		29.93	+ .46	44	42	0	NNH	3	δc	2		44	40	0.04
Portishead ...	29.07	41	E	7	r		29.79	+ .33	39	37	- 2	NE	2	δ	3		43	35	1.05
Scilly ...																			
Plymouth ...	28.91	42	Z	0	0		29.85	+ .47	35	34	- 10	Z	0	δf	*		30	35	0.77
Hurst Castle ...	28.97	42	E	5	r		29.74	+ .39	37	36	- 9	NNH	2	6	2		42	32	1.70
Dover ...	29.04	42	SE	6	0		29.58	+ .02	40	37	- 6	NNH	5	6	4		46	39	1.45
London ...	29.09	42	E	5	δr		29.66	+ .12	37	34	- 1	NNH	2		*		44	37	0.55
Oxford ...	*	*	*	*	*		29.76	+ .24	35	33	+ 1	NNH	1	δ	*		41	34	0.26
Cambridge ...	29.17	40	E	1	0		29.69	+ .13	34	34	+ 2	NNH	2	6	*		30	30	0.05
Yar mouth ...	29.25	44	ENE	8	0		29.55	- .03	39	38	+ 5	NNH	6	gcd	5		47	33	0.11
The Helder ...	*	*	*	*	*		29.33	- .23	45	40	0	N	4	c	*		*	*	0.04
Cape Gris Nez ...																			
Jersey ...	29.02	49	SH	6	a		29.83	+ .35	43	39	- 4	N	5	δc	4		52	40	0.71
Brest ...	29.28	32	NNH	5	f		?	?	46	41	- 8	N	4	δc	5		34	41	0.47
L'Orient ...	29.26	46	NNH	8	r		29.91	+ .34	45	41	- 9	NNH	6	6	6		37	39	1.14
Rochefort ...	29.18	46	SH	10	r		29.82	+ .06	40	30	- 7	NNH	7	c	7		35	41	0.65
Biarritz ...	29.62	61	SSH	5	0		29.89	- .09	34	30	0	NNH	8	r	7		61	45	0.16
Corunna ...	*	*	*	*	*		30.19		33	*		NNH	3	c	7		*	*	*
Brussels ...	*	*	*	*	*		29.24	- .32	36	*	- 5	ENE	6	0	*		*	*	1.22
Charleville ...	*	*	*	*	*		?	?	39	*	- 2	E	9	rs	*		*	*	*
Paris ...	29.06	52	SH	6	r		29.37	- .05	42	40	+ 1	NNH	5	0	*		*	*	0.35
Lyons ...	*	*	*	*	*		29.45	- .44	40	*	- 1	S	4	0	*		*	*	*
Toulon ...	29.67	55	H	5	c		29.87	- .44	45	43	- 2	NNH	7	0	7		59	48	-

## YESTERDAY'S 2 P.M. REPORTS AND REMARKS.

	Bar.	Dry.	Wet.	Wind.	Wes.	Sea.		Bar.	Dry.	Wet.	Wind.	Wes.	Sea.
Skudesnaes ...	29.32	41	37	NNH	8	0	4	Valencia .....					
Thurso .....	29.45	37	35	ENE	1	δ	2	Scilly .....					
Scarborough ...	29.42	42	39	E	δc	3	3	London .....	29.30	44	42	E	2 : 97.7 *
Greencastle ...	29.37	40	39	NNH	1	0	*	Rochefort ...					
Holyhead .....	29.28	44	42	E	4	δ	3						

Our Reports from Valencia and Pembroke have not arrived, while the defect in the Scilly cable still deprives us of any report from that station. The other reports seem to indicate that the depression in the SH is advancing slowly to the E<sup>W</sup> over the S. of England, bringing with it very gloomy and wet weather to our S<sup>m</sup> stations.

## EXPLANATION OF COLUMNS.

**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

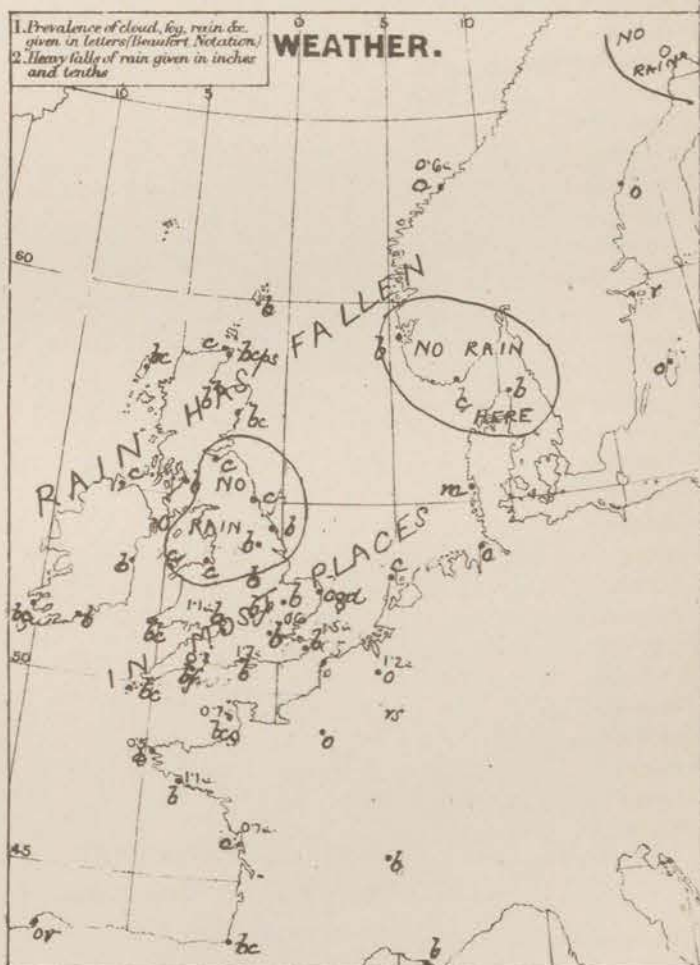
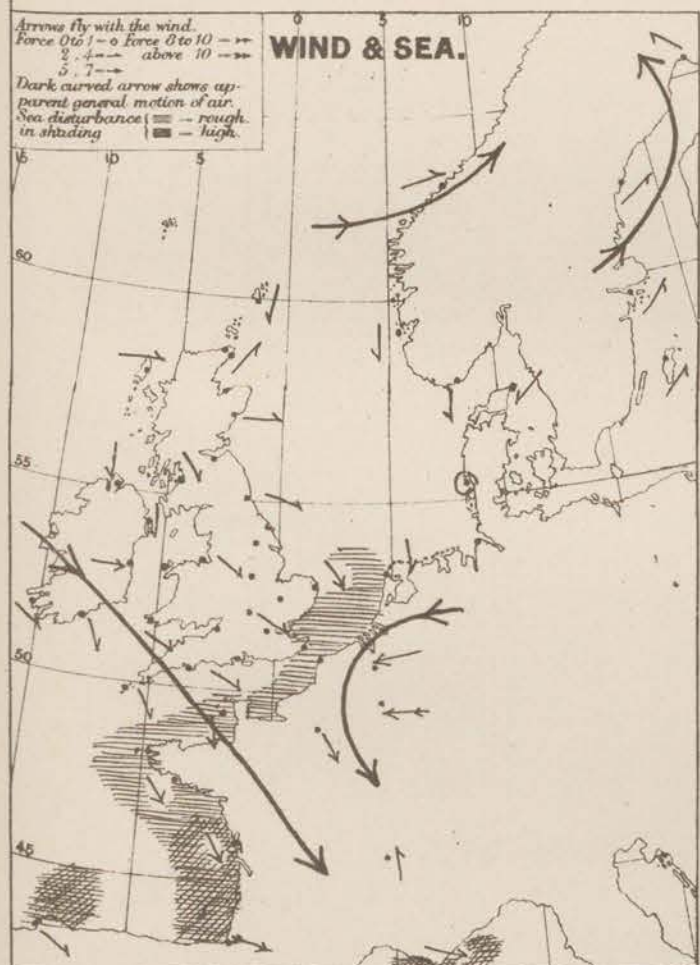
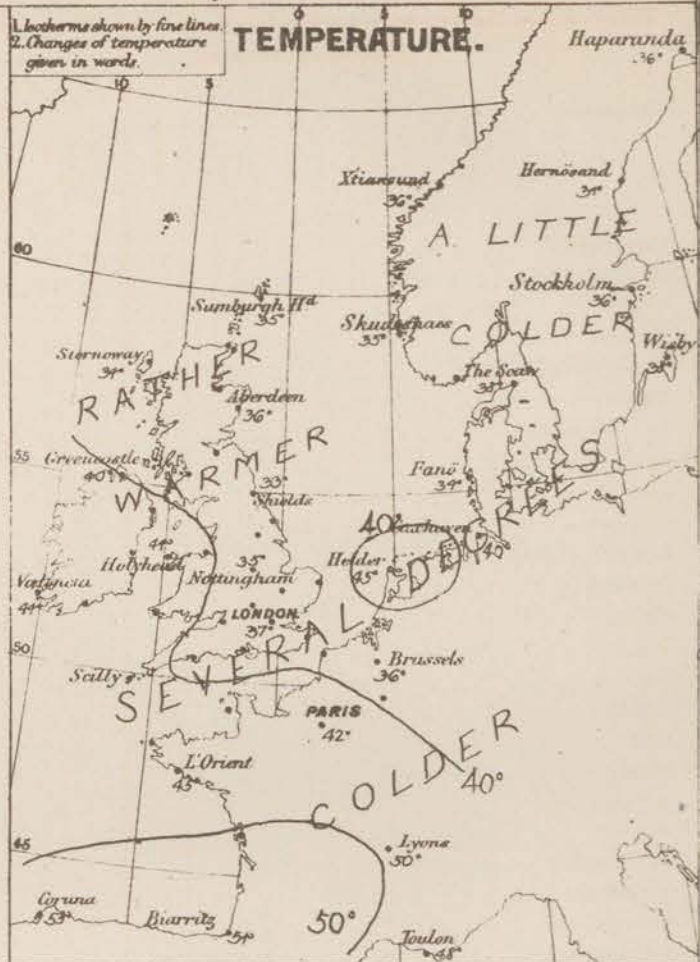
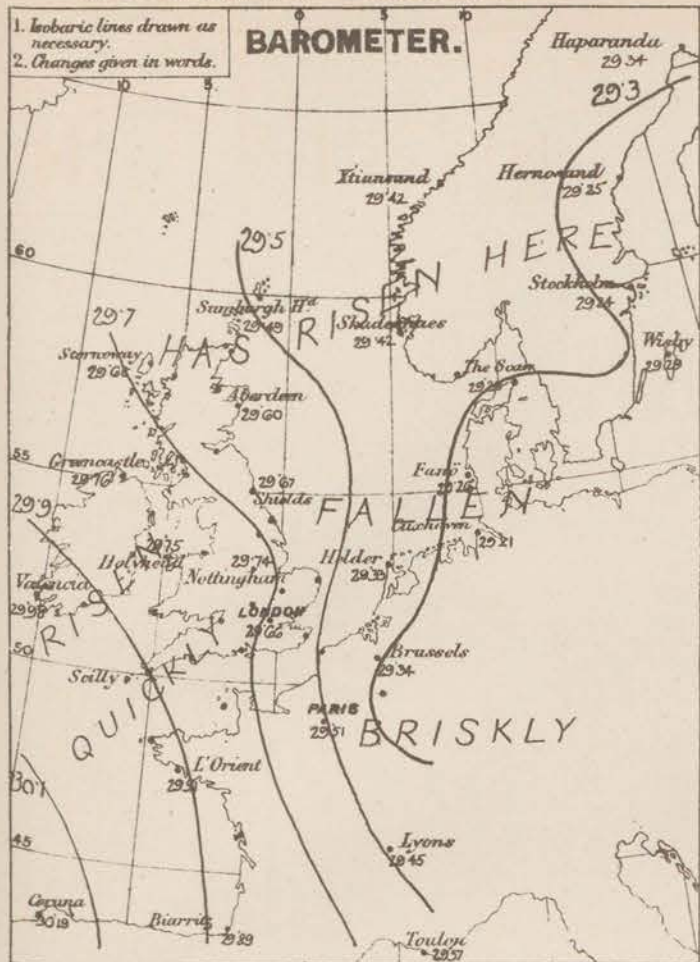
\* AN ASTERISK is inserted in all places for which information is not usually received.

† The evening observations are taken at 6 p.m. in our Islands, at 8 p.m. (Christiania time) in Sweden, Norway, and Denmark, and at 7 p.m. (Paris time) in France.

N.B.—The wind is said to "veer" when its direction changes with the sun, and to "back" when it shifts in the opposite direction.



WEATHER CHARTS *for 8 a.m. on Sunday Nov<sup>r</sup> 25<sup>th</sup> 1877.*



REMARKS. Fog is dull in Sweden and the north east of France, but is very fine over the greater part of our Islands; snow however, falling at Wiko, and some sleet is reported at Charleville. Rain fell yesterday in most parts of Western Europe; over our southern counties and in France the fall was very heavy, amounting to 1.05 in at Portland, 0.77 in at Plymouth, 1.70 in at Hurst Castle, 1.45 in at Dover, 0.55 in London, 0.71 in at Jersey, 1.1 in at Orient, 0.65 in at Rochefort and 1.22 in at Biscaye. Temperature has risen a little in Scotland but fallen elsewhere - several degrees in the south of England. Wind is light to moderate from SW in Sweden, but N to NW breezes are blowing over these Islands and France - they are rather strong in force at the northern and western French stations. A strong E. gale blew on the south east coast of England last evening & during the night. Sea is high in the Bay of Biscay, rough on the French side of the Channel, slight or smooth in other places. Barometrical Indications. During yesterday the small depression which lay off our coasts in the morning passed up the Channel, proving deeper as it advanced, and causing a rapid fall of the barometer at all our southern stations. It has now passed on to Germany, and the barometer is rising briskly in all parts of these Islands.

Warnings. The following was sent to our east coast, south of the Humbles, yesterday afternoon:—"Deep depression coming up Channel. Hint North One for E. pale. Saturday 4.20 pm." The warning was subsequently extended from the Humbles to the Tides, but all the signals have been lowered this morning.

Subscription for these Charts payable in advance to cover delivery. Delivery by hand 10/- per quarter, book post 5/- per quarter.

Meteorological Office,  
116, Victoria Street, Westminster, S. W.

**R. H. SCOTT.**  
Secretary.



# DAILY WEATHER REPORT

NOV 26<sup>TH</sup>

1877.

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.			
			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.	Amount of Rainfall.	
Haparanda ...	29.44	36	Z	0	c	29.58	+ .24	28	28	- 8	N	2	0	*	37	28	0.16	
Hernösand ...	29.58	32	N	2	c	29.74	+ .49	24	23	- 11	W	2	0	*	*	*	-	
Stockholm ...	29.45	37	Z	0	r	29.56	+ .32	37	36	+ 1	N	2	0	*	*	*	0.04	
Wisby ...	29.33	37	ESE	4	0	29.50	+ .21	40	38	+ 2	ENE	6	0	*	*	*	-	
Christiansund ...	29.53	37	SSW	2	r	29.65	+ .23	37	34	+ 1	S	2	0	4	37	34	-	
Skudesnaes ...	29.59	33	ENE	2	0	29.73	+ .31	33	31	- 2	E	2	0	2	36	34	-	
Oxö (Xtiansand) ...	29.58	35	NE	4	0	29.73	+ .40	32	28	- 6	?	4	0	2	41	28	-	
Skagen (The Seaw) ...	29.55	40	ENE	3	c	29.72	+ .43	39	36	+ 1	NE	2	0	0	41	36	-	
Fanö ...	29.60	37	NNW	4	0	29.75	+ .49	35	35	+ 1	Z	0	0	*	37	32	0.08	
Cuxhaven ...	29.42	36	N	4	c	29.78	+ .57	40	40	+ 1	NSW	1	0	*	41	37	0.02	
Sumburgh Head ...	29.64	36	N	2	bc	29.60	+ .11	39	38	+ 4	SSE	2	0	3	39	38	-	
Stornoway ...	29.74	36	NSW	1	ow	29.46	- .22	41	40	+ 7	SW	4	0	4	41	30	0.40	
Thurso ...	29.70	41	NNW	1	0	29.55	- .02	37	37	- 1	SSW	3	0	3	44	30	0.14	
Wick ...	29.69	35	NW	2	c	29.59	- .08	40	38	+ 7	SW	3	0	3	?	30	0.12	
Nairn ...	29.76	37	N	1	0	29.60	- .04	37	35	+ 5	N	1	0	1	38	32	-	
Aberdeen ...	29.72	37	NNW	2	0	29.67	+ .07	34	32	- 2	SSW	3	0	1	39	30	-	
Leith ...	29.81	37	N	2	0	29.72	+ .06	39	37	+ 5	SSW	1	0	*	40	32	-	
Shields ...	29.82	36	NNW	3	bc	29.81	+ .14	36	34	+ 3	SW	2	0	2	40	32	-	
Scarborough ...	29.83	37	NW	1	0	29.84	+ .17	37	36	- 1	NSW	1	0	2	42	33	-	
York ...	29.87	35	NW	1	0	29.87	+ .16	33	33	+ 2	S	1	0	*	42	30	-	
Nottingham ...	29.91	38	Z	0	0	29.92	+ .18	32	32	- 3	S	1	0	*	44	29	-	
Ardrossan ...	29.83	43	NSW	1	0	29.71	- .00	40	42	+ 8	E	3	0	3	46	37	-	
Greencastle ...	29.87	37	N	2	bc	29.68	- .08	40	39	0	S	2	0	*	45	36	0.04	
Donaghadee ...	29.91	36	NNW	2	0	29.73	- .02	37	37	- 4	SSE	2	0	1	43	34	-	
Kingstown ...	29.98	41	N	3	0	29.77	- .04	42	40	+ 2	SSE	3	0	2	44	38	-	
Holyhead ...	29.92	44	NNW	4	bc	29.80	+ .05	45	42	+ 1	SSW	1	0	1	46	41	0.02	
Liverpool (Bidston) ...	29.92	40	NW	2	0	29.83	+ .10	39	38	- 1	S	1	0	1	46	38	0.04	
Valencia ...	30.03	41	Z	0	0	29.60	- .38	47	46	+ 3	SE	6	0	6	50	40	0.05	
Roche's Point... ..	30.02	46	N	3	bc	29.72	- .21	48	47	+ 8	SSW	4	0	4	48	40	0.08	
Penbroke ...	30.00	47	NNW	2	bc	29.83	- .00	48	46	+ 4	S	3	0	3	48	44	0.05	
Portishead ...	29.97	42	NNW	2	bc	29.89	+ .10	42	39	+ 3	SSW	3	0	3	48	35	-	
Scilly ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	
Plymouth ...	30.05	40	N	1	0	29.92	+ .07	40	39	+ 5	Z	0	0	*	47	36	0.04	
Hurst Castle ...	29.95	45	NN	3	0	29.91	+ .18	48	45	+ 11	SW	1	0	1	49	35	0.01	
Dover ...	29.93	42	N	3	0	30.00	+ .42	38	36	- 2	NSW	2	0	1	43	35	-	
London ...	29.94	41	N	2	bc	29.97	+ .31	36	35	- 1	S	1	0	*	44	31	-	
Oxford ...	...	...	...	...	...	29.94	+ .38	37	36	+ 2	Z	0	0	*	45	33	-	
Cambridge ...	29.90	38	NN	1	0	29.95	+ .16	33	32	- 1	SW	1	0	*	47	30	-	
Yarmouth ...	29.83	36	NNW	3	bc	29.94	+ .39	33	33	- 6	NSW	2	0	3	44	30	0.01	
The Helder ...	...	...	...	...	...	29.90	+ .57	44	41	- 1	NNW	2	0	*	*	*	0.12	
Cape Gris Nez ...	29.91	45	NN	5	bc	29.99	+ .08	37	37	0	S	1	0	1	46	39	-	
Jersey ...	30.07	46	NN	3	0	30.03	+ .20	48	44	+ 5	SW	5	0	4	49	42	-	
Brest ...	30.16	50	NNW	3	0	30.01	+ .21	50	46	+ 4	S	3	0	4	55	43	0.08	
L'Orient ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	
Rochefort ...	30.14	55	NNW	5	0	30.12	+ .30	46	45	- 4	SE	4	0	3	61	41	-	
Biarritz ...	30.14	57	NNW	3	0	30.11	+ .22	43	41	- 11	ESE	3	0	4	57	41	0.12	
Corunna ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	
Brussels ...	...	...	...	...	...	30.03	+ .19	36	...	0	NSW	6	0	*	*	*	0.83	
Charleville ...	...	...	...	...	...	30.04	+ .20	36	...	- 3	SSE	3	0	*	*	*	*	
Paris ...	30.01	41	NN	3	0	30.10	+ .59	37	36	- 5	N	1	0	*	*	*	-	
Lyons ...	...	...	...	...	...	30.26	+ .61	43	...	- 7	N	2	0	*	*	*	*	
Toulon ...	29.81	45	NN	3	0	30.05	+ .48	39	36	- 9	NW	6	0	7	48	?	-	

## YESTERDAY'S 2 P.M. REPORTS AND REMARKS.

Bar.	Dry.	Wet.	Wind.	Wes.	Sea.	Bar.	Dry.	Wet.	Wind.	Wes.	Sea.
Skudesnaes ...	29.52	35	32	NNE	2	Valencia ...	...	...	...	...	...
Thurso ...	...	...	...	...	...	Scilly ...	...	...	...	...	...
Scarborough ...	...	...	...	...	...	London ...	...	...	...	...	...
Greencastle ...	...	...	...	...	...	Rochefort ...	30.05	58	45	NNW	5
Holyhead ...	...	...	...	...	...						

## EXPLANATION OF COLUMNS.

**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.

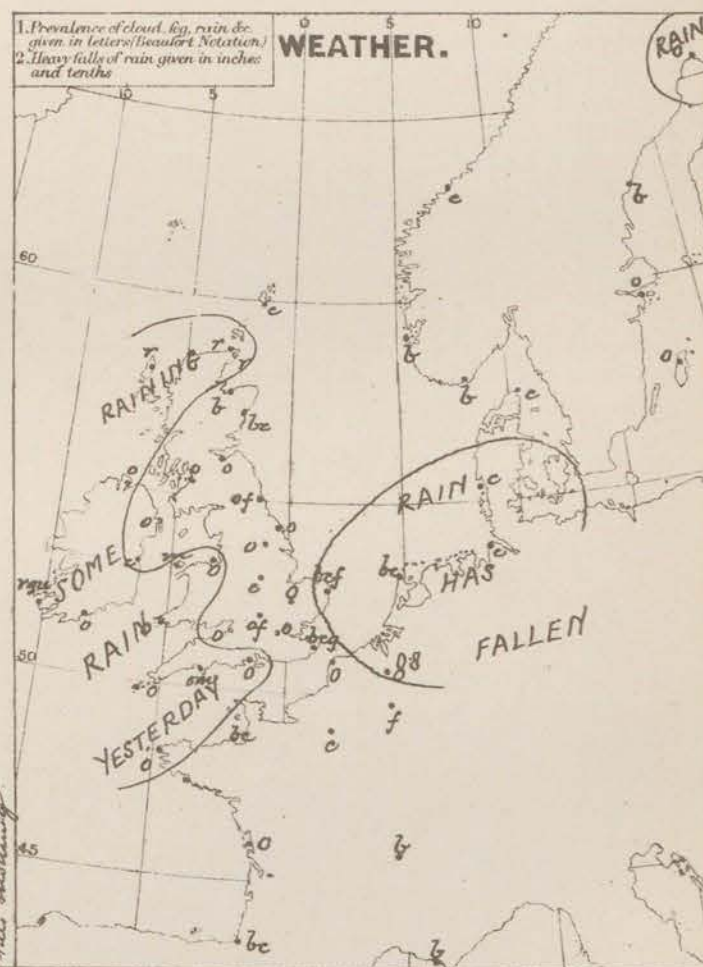
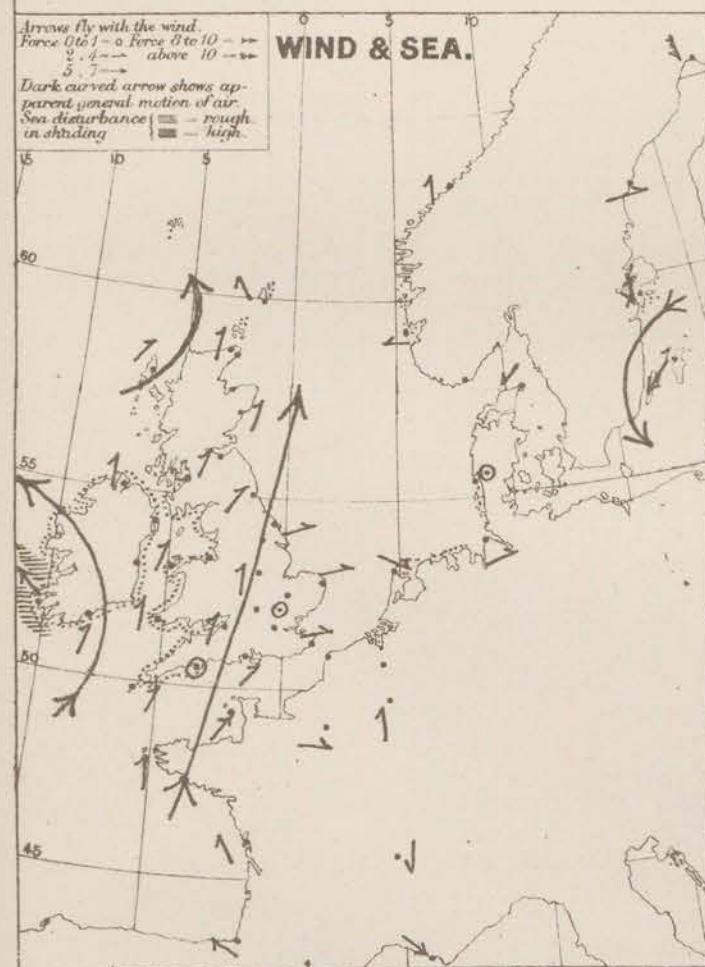
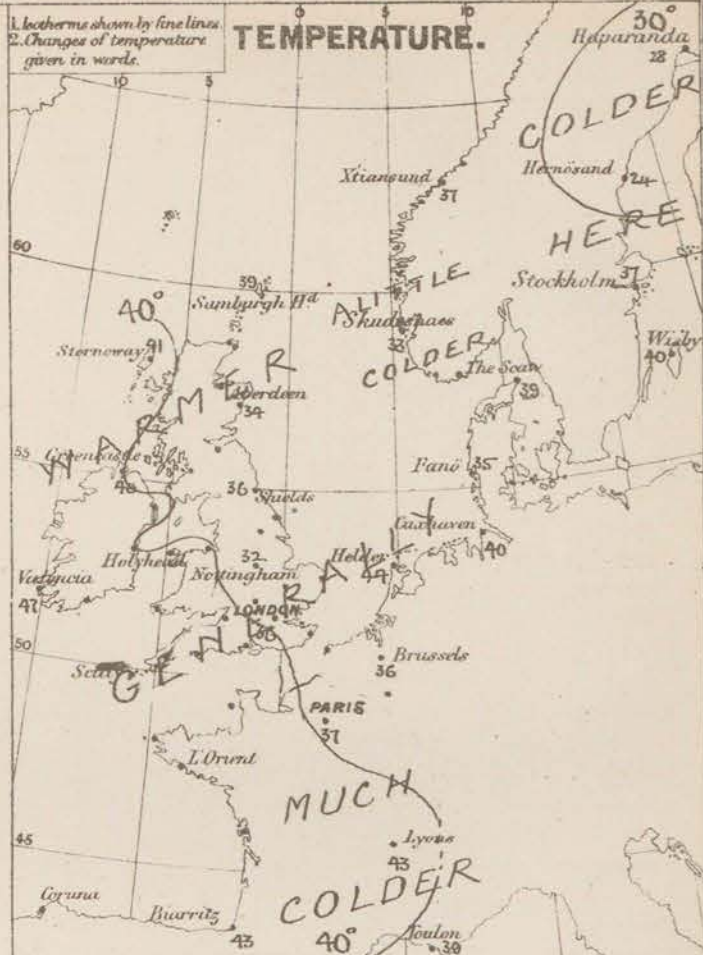
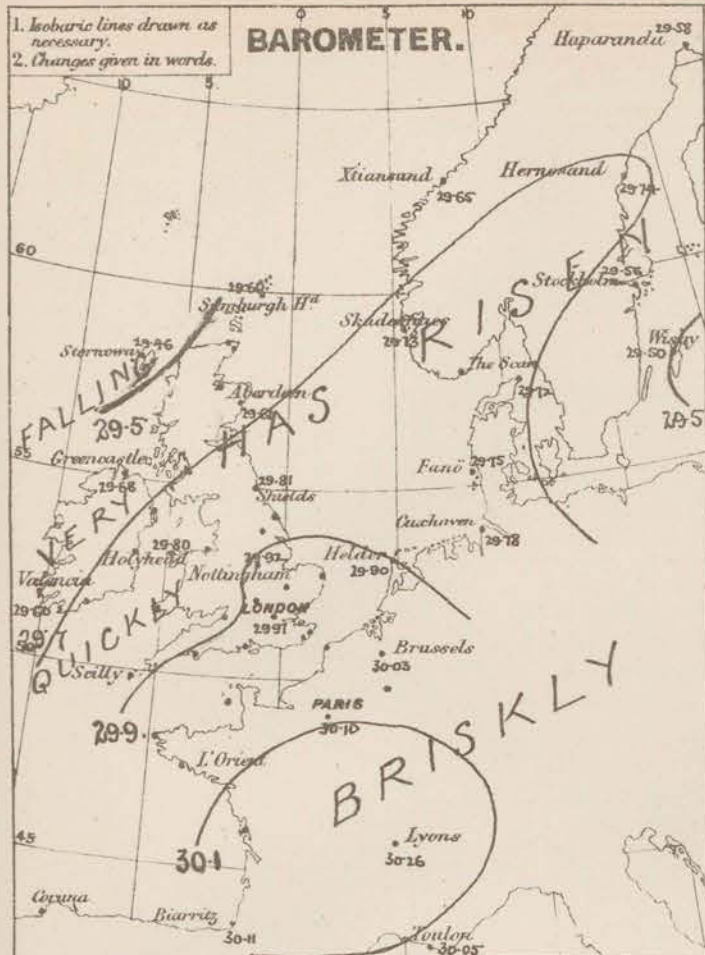
\* AN ASTERISK is inserted in all places for which information is not usually received.

† The evening observations are taken at 6 p.m. in our Islands, at 8 p.m. (Christiania time) in Sweden, Norway, and Denmark, and at 7 p.m. (Paris time) in France.

N.B.—The wind is said to "veer" when its direction changes with the sun, and to "back" when it shifts in the opposite direction.



# WEATHER CHARTS for 8 a.m. on Monday Nov. 26<sup>th</sup> 1877.



Isobaric lines is drawn round the coast when the signals have been limited this morning

**REMARKS.** Weather is again breaking up all over the United Kingdom. The sky has become overcast at all but the Central, Scotch and SE stations, rain is falling both in the N. of Scotland and at Valentia. Barely any rain has fallen in any other part of our Islands since yesterday morning. Temperature has again decreased in France, and the SE part of England, but risen fast in the W. and the wind appears to be extending to our other coasts. It now varies from 48° in the S. of Ireland to 37° at Naini and 32° to 33° over Central England. Winds has backed to SW in Scotland, to S. over the greater part of England and Ireland, and to SE at Valentia. At the last named station it has risen to a strong breeze, but in most other places it is light or moderate in force. Sea is rough off the west coast of Ireland, slight or smooth elsewhere.

**Barometrical Indications.** Throughout yesterday the barometer rose in all parts of our Islands, except the extreme SW. of Ireland, where it commenced falling slowly in the afternoon. In the evening of the past night the fall has become much quicker and has extended to all but our west SE stations, there appears to be a depression in our neighbourhood and off our extreme NW coasts, and the other approaching Ireland from the SW.

**Warnings.** The following has been sent to our W. and SW coasts this morning. "Barometer falling fast in west, strong SE wind Valentia, short South Sea. Monday 10.15 am"



# DAILY WEATHER REPORT NOV<sup>R</sup> 27<sup>th</sup> 1877.

STATIONS.	† YESTERDAY EVENING.					8 A.M. TO DAY.										PAST 24 HOURS.		
	Barometer at 350 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 350 F. and Sea Level.	Difference from 8 a.m. yesterday.	Dry.	Wet.	Difference from 8 a.m. yesterday.	Dir.	Force. (0 to 12).			Max.	Min.		
Haparanda ...	29.79	18	Z	0	r	29.81	+ .23	17	17	- 11	N	2	c	*	28	14	-	
Hernösand ...	29.80	24	Z	0	bc	29.69	- .05	27	26	+ 3	N	6	s	*	*	*	-	
Stockholm ...	29.56	33	N	6	r	29.44	- .12	33	32	- 4	NNH	4	s	*	*	*	0.12	
Wisby ...	29.46	38	ENE	8	r	29.47	- .03	38	36	- 2	NNH	8	r	*	*	*	0.82	
Christiansund ...	29.69	32	SE	5	bc	29.47	- .08	30	27	- 7	SE	6	bc	3	37	30	-	
Skudesnaes ...	29.71	37	ESE	6	o	29.35	- .38	39	35	+ 6	ESE	4	o	6	?	34	-	
Oxö (Xtiansand) ...	29.79	30	N	4	bc	29.56	- .17	38	35	+ 6	ENE	6	c	4	?	28	-	
Skagen (The Seaw) ...	29.77	38	NNE	3	bc	29.63	- .09	33	31	- 6	ENE	2	bc	0	39	28	-	
Fanö ...	29.71	32	E	1	bc	29.34	- .21	34	34	- 1	SSE	6	f	*	41	30	-	
Cuxhaven ...	29.85	38	NNH	2	r	29.58	- .20	35	35	- 5	S	3	c	*	41	32	0.02	
Sumburgh Head ...	29.42	43	SSE	6	c	28.81	- .79	44	43	+ 5	SE	9	r	8	45	?	0.41	
Stornoway ...	29.21	44	SSH	6	o	28.97	- .49	34	33	- 7	NHSH	3	bc	4	46	32	0.50	
Thurso ...	29.35	39	SSE	3	o	28.82	- .73	39	38	+ 2	SSH	2	bc	2	43	35	0.43	
Wick ...	29.37	42	S	4	o	28.86	- .73	39	37	- 1	SH	3	c	4	45	35	0.29	
Nairn ...	29.34	41	NNH	2	o	28.92	- .68	39	37	+ 2	H	2	c	1	43	37	0.19	
Aberdeen ...	29.45	42	S	4	mr	28.93	- .74	39	38	+ 5	SH	1	bc	2	45	34	0.55	
Leith ...	29.45	40	SE	3	o	29.03	- .69	42	40	+ 3	NHSH	3	bc	*	49	37	0.02	
Shields ...	29.56	40	SH	2	bcw	29.12	- .69	43	41	+ 7	H	2	bcw	2	46	36	0.04	
Scarborough ...	29.63	39	SH	0	c	29.17	- .67	44	43	+ 7	NHSH	1	bc	3	46	37	0.09	
York ...	29.60	40	S	1	o	29.19	- .68	43	41	+ 10	NHSH	1	bc	*	48	32	0.14	
Nottingham ...	29.62	43	S	2	r	29.28	- .64	44	44	+ 12	SH	1	bc	*	48	32	0.29	
Ardrossan ...	29.32	45	SE	4	r	29.07	- .64	44	42	- 1	SH	4	r	3	30	43	0.30	
Greencastle ...	29.18	43	SE	0	o	29.07	- .61	37	36	- 3	NHSH	2	o	*	47	36	0.35	
Donaghadee ...	29.28	47	S	6	r	29.15	- .58	37	37	0	SSH	4	bc	3	48	37	0.30	
Kingstown ...	29.27	49	SSE	5	r	29.23	- .54	42	40	0	H	2	bcf	2	57	41	0.08	
Holyhead ...	29.37	47	S	6	mr	29.23	- .57	45	42	0	NHSH	2	bcw	2	53	44	0.12	
Liverpool (Bidston) ...	29.46	48	SE	4	r	29.22	- .61	44	42	+ 5	NHSH	3	c	1	49	39	0.14	
Valencia ...	29.23	51	H	4	cm	29.25	- .35	43	41	- 4	NNH	3	cp	3	54	40	0.43	
Roche's Point... ..	29.26	49	SSH	5	o	29.28	- .44	42	40	- 6	H	3	bc	4	52	41	0.28	
Pembroke ...	29.35	50	SSE	8	r	29.29	- .54	48	46	0	NNH	1	o	3	53	47	0.62	
Portishead ...	29.34	45	SE	6	o	29.31	- .58	47	46	+ 5	SH	3	bc	3	52	40	0.65	
Seilly ...	29.50	50	S	6	o	29.35	- .57	48	48	+ 8	Z	0	gf	*	54	39	0.86	
Plymouth ...	29.60	51	SH	5	r	29.37	- .55	51	51	+ 3	H	2	o	2	52	?	0.79	
Hurst Castle ...	29.82	48	SH	5	bc	29.36	- .64	50	50	+ 13	NHSH	4	c	3	57	36	0.28	
Dover ...	29.71	48	S	3	o	29.29	- .68	50	49	+ 14	SSH	2	c	*	50	36	0.42	
London ...	29.71	48	S	3	o	29.29	- .68	50	49	+ 14	SSH	2	c	*	50	36	0.42	
Oxford ...	29.71	48	S	3	o	29.30	- .64	48	47	+ 11	SH	1	c	*	50	46	0.61	
Cambridge ...	29.67	45	S	1	o	29.29	- .66	47	47	+ 14	SH	1	o	*	47	33	0.38	
Yarmouth ...	29.75	42	SSH	2	bcw	29.30	- .64	45	45	+ 12	SSH	2	f	3	45	32	0.14	
The Helder ...	29.75	42	SSH	2	bcw	29.30	- .64	45	45	+ 12	SSH	2	f	3	45	32	0.14	
Cape Gris Nez ...	29.80	41	S	4	c	29.39	- .60	52	52	+ 13	H	5	r	4	?	37	0.32	
Jersey ...	29.66	48	S	7	r	29.45	- .58	54	54	+ 6	SH	4	f	5	54	41	0.62	
Brest ...	29.58	52	S	6	r	29.48	- .33	54	54	+ 4	SH	3	f	6	54	46	0.79	
L'Orient ...	29.69	52	SH	7	r	29.54	- .30	55	55	+ 7	NHSH	4	m	5	57	46	0.75	
Rochefort ...	29.90	48	S	5	o	29.65	- .47	55	55	+ 9	SH	5	r	3	59	39	0.39	
Biarritz ...	29.95	57	SSE	10	o	29.75	- .36	59	52	+ 16	SSE	4	o	3	63	41	0.04	
Corunna ...	29.95	57	SSE	10	o	29.75	- .36	59	52	+ 16	SSE	4	o	3	63	41	0.04	
Brussels ...	29.95	57	SSE	10	o	29.75	- .36	59	52	+ 16	SSE	4	o	3	63	41	0.04	
Charleville ...	29.95	57	SSE	10	o	29.75	- .36	59	52	+ 16	SSE	4	o	3	63	41	0.04	
Paris ...	29.95	57	SSE	10	o	29.75	- .36	59	52	+ 16	SSE	4	o	3	63	41	0.04	
Lyons ...	29.95	57	SSE	10	o	29.75	- .36	59	52	+ 16	SSE	4	o	3	63	41	0.04	
Toulon ...	30.07	43	NH	6	bc	29.85	- .41	46	45	+ 3	SE	2	o	*	48	39	-	

## YESTERDAY'S 2 P.M. REPORTS AND REMARKS.

	Bar.	Dry.	Wet.	Wind.	Wes.	Sea.		Bar.	Dry.	Wet.	Wind.	Wes.	Sea.	
Skudesnaes ...	29.75	57	33	ESE	2	bc	Valencia .....	29.28	51	50	SSE	7	ryw	6
Thurso .....	29.80	40	39	S	3	o	Seilly .....							
Scarborough ...	29.64	39	38	SH	1	c	London .....	29.84	47	45	S	1	c	*
Greencastle ...	29.45	42	41	SE	2	r	Rocheport ...	30.01	48	46	SE	4	c	3
Holyhead .....	29.60	47	46	S	6	mw								

The barometer is still falling just in the West, and the S.W. winds increasing in strength with rain and a threatening appearance.

Warnings extended to all our S. and SE. coasts.

## EXPLANATION OF COLUMNS.

**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.

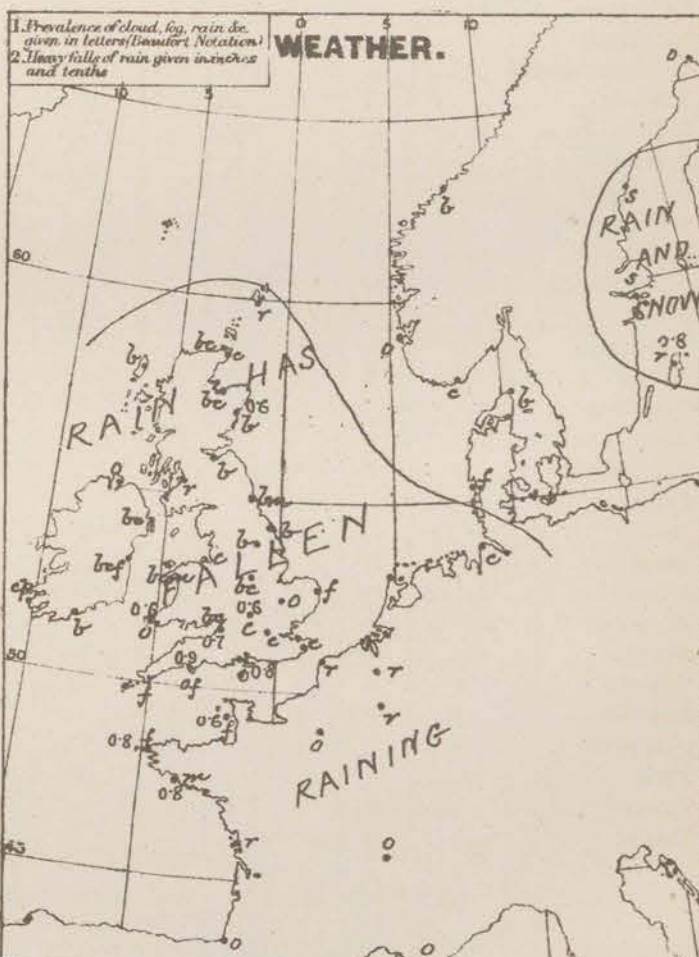
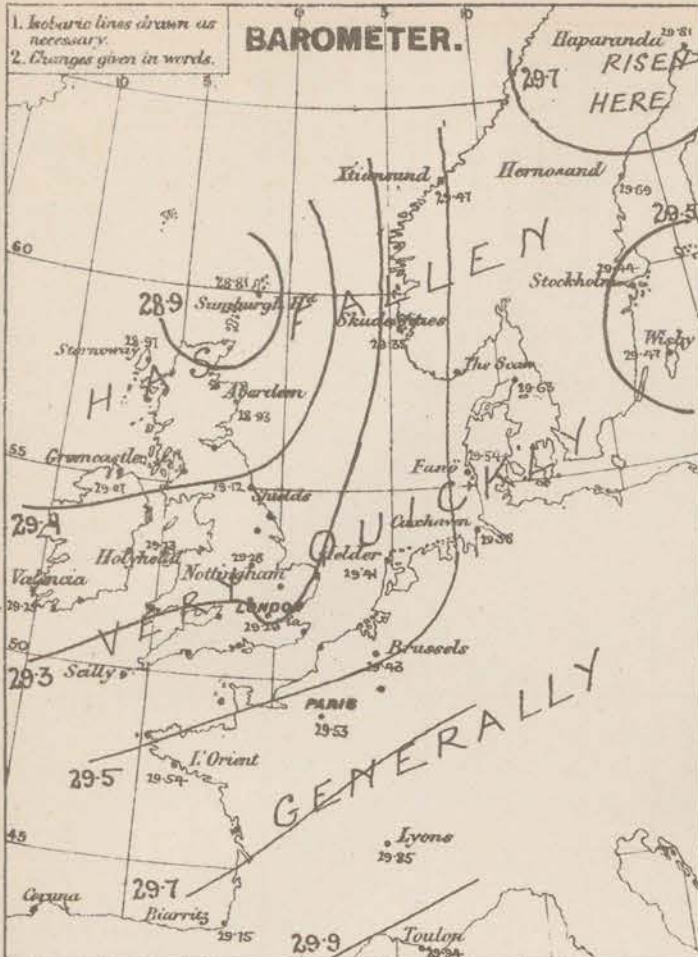
\* AN ASTERISK is inserted in all places for which information is not usually received.

† The evening observations are taken at 6 p.m. in our Islands, at 8 p.m. (Christiania time) in Sweden, Norway, and Denmark, and at 7 p.m. (Paris time) in France.

N.B.—The wind is said to "veer" when its direction changes with the sea, and to "back" when it shifts in the opposite direction.



# WEATHER CHARTS for 8 a.m. on Tuesday Nov 27<sup>th</sup> 1877.



**REMARKS.** Weather is very changeable. At present it is overcast, clear in Scotland, the N. of England, and E. of Ireland, cloudy or foggy elsewhere, with rain in a few places. At Haparanda, and Stockholm sun is falling. Rain fell all over our Islands, and in France yesterday, the largest quantities reported being 0.9 in. at Plymouth, 0.8 in. at Bristol, 0.7 in. at Portsmouth, and 0.6 in. at Jersey, Exeter, Penzance and others. Lightning was seen at Ploeghem, and at Haparanda. It has also fallen a little in the S. of Ireland, but elsewhere it has risen quickly as much as 14° in London. Readings in our Islands vary from 57° on the S. coast to 54° on the Hebrides. Wind blew as strong breeze or slight gale from the S. on nearly all our coasts yesterday. This has since lulled, and the wind has veered to the SW, but at Lough Linn, the SW of Norway a strong SE. gale prevails this morning. Sea is high in the N. rough about the mouth of the Channel, slight elsewhere. Barometrical Indications. The fall of the barometer noticed yesterday proved to be very considerable, especially in the N., but it spread so rapidly to the E. and S. that gradients were never very steep, and the wind consequently has been less strong than was anticipated. The readings of the barometer now vary from 29.9 in. at Haparanda, and 29.8 in. in the N. of Sweden to 28.8 in. off the N. of Scotland. The morning is mostly clear in our Islands. Warnings were issued to all our coasts yesterday.



# DAILY WEATHER REPORT

NOV<sup>TH</sup> 28<sup>TH</sup>

1877.

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.		
Haparanda ...	29.46	28	N	2	5	29.45	- .33	12	12	- .5	N	2	3	*	28	12	0.28	
Hernösand ...	29.57	40	Z	0	3	29.52	- .17	26	25	- .1	Z	0	0	*	*	*	-	
Stockholm ...	29.54	33	SW	7	3	29.50	+ .06	37	34	+ .4	SSE	4	0	*	*	*	-	
Wisby ...	29.58	34	SW	4	0	29.55	+ .08	35	33	- .3	S	6	0	*	*	*	-	
Christiansund ...	29.13	37	SSE	4	0	29.03	- .44	37	33	+ .7	E	2	0	2	37	28	-	
Skudesnaes ...	29.12	42	SE	8	0	28.88	- .47	37	36	- .2	E	4	1	4	43	?	0.95	
Oxö (Xisnäsand) ...	29.33	40	SSE	8	0	28.91	- .65	42	41	+ .4	SE	8	1	7	?	37	-	
Skagen (The Seaw) ...	29.40	40	SSE	5	0	29.05	- .58	41	40	+ .8	SSE	9	1	9	41	30	0.04	
Fanö ...	29.25	36	SSE	4	0	29.00	- .54	44	44	+ .10	N	4	0	*	45	32	0.16	
Cuxhaven ...	29.37	4	S	3	0	29.05	- .53	46	46	+ .11	NSE	2	0	*	?	34	0.11	
Sumburgh Head																		
Stornoway	28.84	34	NSE	2	3	28.70	- .27	34	33	0	Z	0	0	4	39	30	0.36	
Thurso ...	28.89	35	SSW	1	3	28.76	- .06	34	33	- .5	S	1	3	2	41	32	-	
Wick ...	28.89	39	N	2	3	28.78	- .08	39	36	0	S	2	3	2	42	34	-	
Nairn ...	28.94	34	Z	0	3	28.79	- .13	37	35	- .2	NW	1	3	1	39	31	-	
Aberdeen ...	28.97	37	SW	1	3	28.85	- .08	35	33	- .4	NW	2	3	1	41	32	-	
Leith ...	29.42	38	N	3	3	28.90	- .13	39	37	- .3	SW	4	0	*	44	35	-	
Shields ...	29.05	42	S	2	3	29.01	- .11	36	34	- .7	SW	2	3	2	46	33	0.03	
Scarborough ...	29.11	42	SW	2	0	29.09	- .08	35	34	- .9	NSE	2	3	2	46	34	0.05	
York ...	29.12	43	SSW	2	0	29.10	- .09	34	34	- .9	S	1	3	*	46	43	0.03	
Nottingham ...	29.14	42	S	2	1	29.18	- .10	35	35	- .9	SW	4	3	*	46	33	0.07	
Ardrossan ...	28.98	44	SW	3	3	28.89	- .18	44	41	0	SW	4	0	4	45	42	0.01	
Greencastle ...	28.97	35	NSE	1	0	28.88	- .19	39	37	+ .2	SW	2	0	*	42	35	0.24	
Donaghadee ...	29.05	37	NSE	2	0	28.97	- .18	35	35	- .2	NSE	3	3	1	42	33	-	
Kingstown ...	29.11	42	N	4	3	29.06	- .17	40	37	- .2	N	6	3	5	45	38	0.01	
Holyhead ...	29.10	44	SW	2	3	29.09	- .14	42	40	- .3	SW	5	0	4	48	41	-	
Liverpool (Bidston)																		
Valencia ...	29.20	44	N	3	0	29.17	- .08	41	39	- .2	N	4	4	5	49	38	0.19	
Roche's Point...	29.20	40	NNE	3	3	29.19	- .09	39	37	- .3	N	3	3	3	46	38	0.04	
Pembroke ...	29.17	48	NNE	3	0	29.18	- .11	46	43	- .2	N	4	4	4	50	42	0.09	
Portishead ...	29.14	45	S	2	0	29.25	- .06	42	42	- .5	SW	5	4	4	50	37	0.49	
Scilly ...																		
Plymouth ...	29.21	46	N	2	3	29.31	- .04	42	41	- .6	N	4	0	*	53	41	0.49	
Hurst Castle ...	28.99	53	SW	4	1	29.28	- .09	47	45	- .4	N	4	3	4	?	44	0.32	
Dover ...	29.12	50	SW	5	0	29.31	- .05	42	40	- .9	NSE	3	3	2	53	41	0.06	
London ...	29.08	52	Z	0	0	29.28	- .01	39	38	- .11	NSE	2	3	*	53	38	0.36	
Oxford ...	*	*	*	*	*	29.26	- .04	38	37	- .10	SSW	1	3	*	49	37	0.28	
Cambridge ...	29.16	44	SW	1	1	29.26	- .03	34	34	- .13	SW	1	3	*	51	34	0.36	
Yarmouth ...	29.17	46	S	1	0	29.22	- .08	37	37	- .8	NSE	2	3	2	49	36	0.50	
The Helder...	*	*	*	*	*	29.21	- .20	46	42	+ .8	NSE	2	3	*	*	*	0.12	
Cape Gris Nez	29.20	43	SSW	3	1	29.32	- .07	48	45	- .4	NSE	4	0	4	54	46	0.20	
Jersey ...	29.22	53	N	6	0	29.40	- .05	49	45	- .5	N	6	3	4	55	47	0.40	
Brest ...	29.38	55	NW	4	3	29.49	+ .11	48	45	- .6	NNE	3	3	5	58	45	0.20	
L'Orient ...	29.38	54	NSE	6	0	29.57	- .03	48	45	- .7	NW	4	0	4	57	45	0.51	
Rochefort ...	29.60	57	NSE	7	0	29.57	- .08	52	52	- .3	NNE	2	0	3	57	48	0.52	
Biarritz ...	29.70	57	S	2	0	29.60	- .15	55	54	- .4	SW	4	0	3	66	53	0.55	
Corunna ...	*	*	*	*	*										*	*	*	
Brussels ...	*	*	*	*	*	29.34	- .09	43	*	+ .2	S	6	0	*	*	*	0.35	
Charleville ...	*	*	*	*	*	29.34	- .21	44	*	+ .5	SW	1	0	*	*	*	*	
Paris ...	29.36	53	S	4	0	29.44	- .09	47	45	- .1	NSE	2	0	*	*	*	0.20	
Lyons ...	*	*	*	*	*	29.60	- .25	55	*	+ .9	SE	4	1	*	*	*	*	
Toulon ...	29.82	50	E	4	3	29.84	- .00	48	46	0	E	4	1	5	52	46	0.12	

## YESTERDAY'S 2 P.M. REPORTS AND REMARKS.

	Bar.	Dry.	Wet.	Wind.	Wes.	Sea.		Bar.	Dry.	Wet.	Wind.	Wes.	Sea.
Skudesnaes ...	29.16	41	37	S	8	1	Valencia .....	29.19	44	41	N	3	cpd
Thurso .....	28.84	40	38	SSW	2	2	Scilly .....						
Scarborough ...	29.16	45	43	SW	2	0	London .....	29.24	53	50	SW	1	c
Greencastle ...	29.02	41	39	NSE	2	3	Rochefort ...	29.60	57	57	SW	7	1
Holyhead .....	29.14	47	43	SW	3	0							

A further but slight fall of the barometer is reported from all but our most northern stations this afternoon. The weather is cloudy generally, and showery in the SW.  
Signals lowered on all coasts this afternoon.

### EXPLANATION OF COLUMNS.

**WEATHER.**—Beaufort scale is, b. blue sky; o. 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.

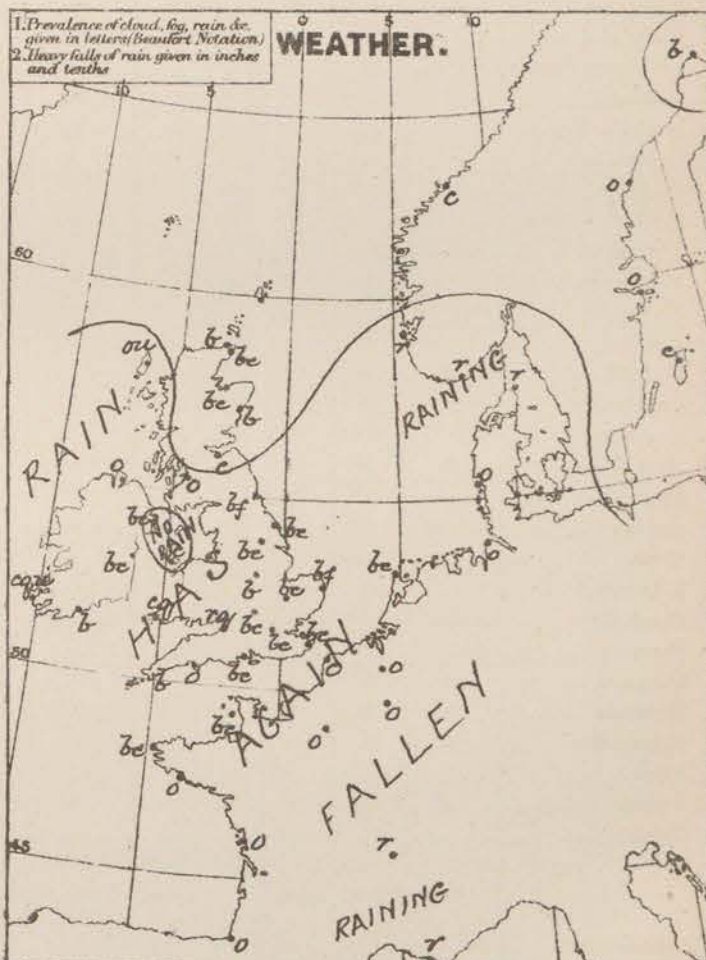
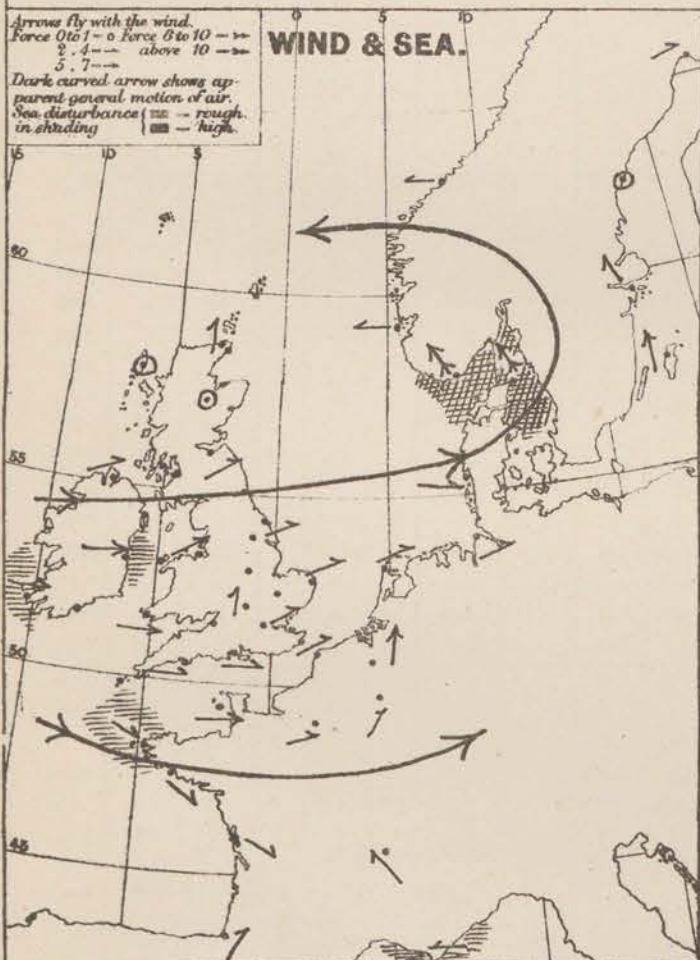
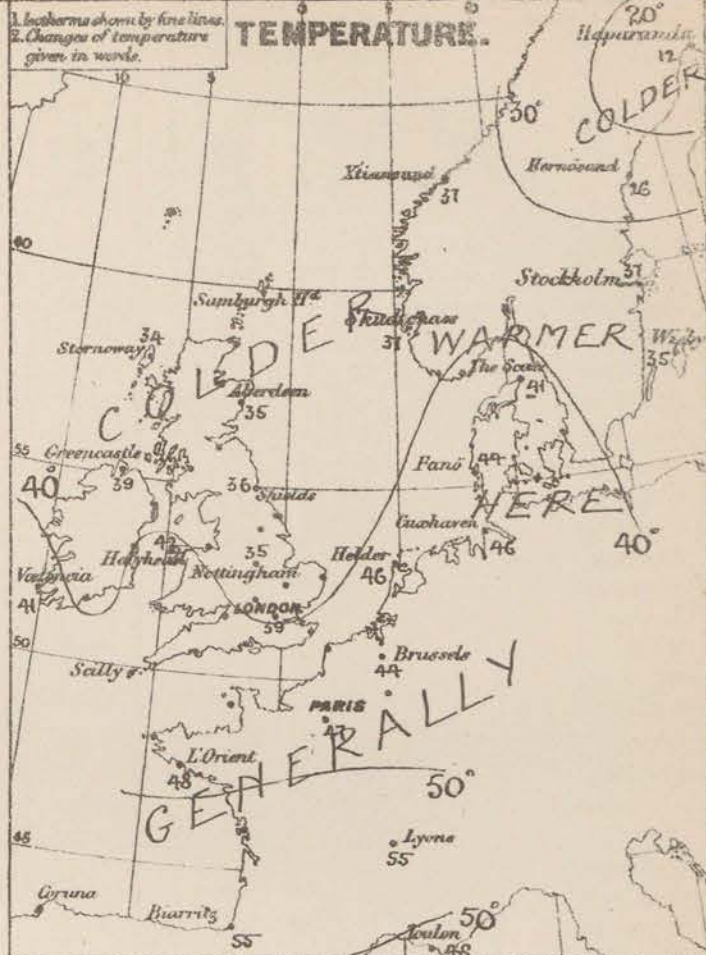
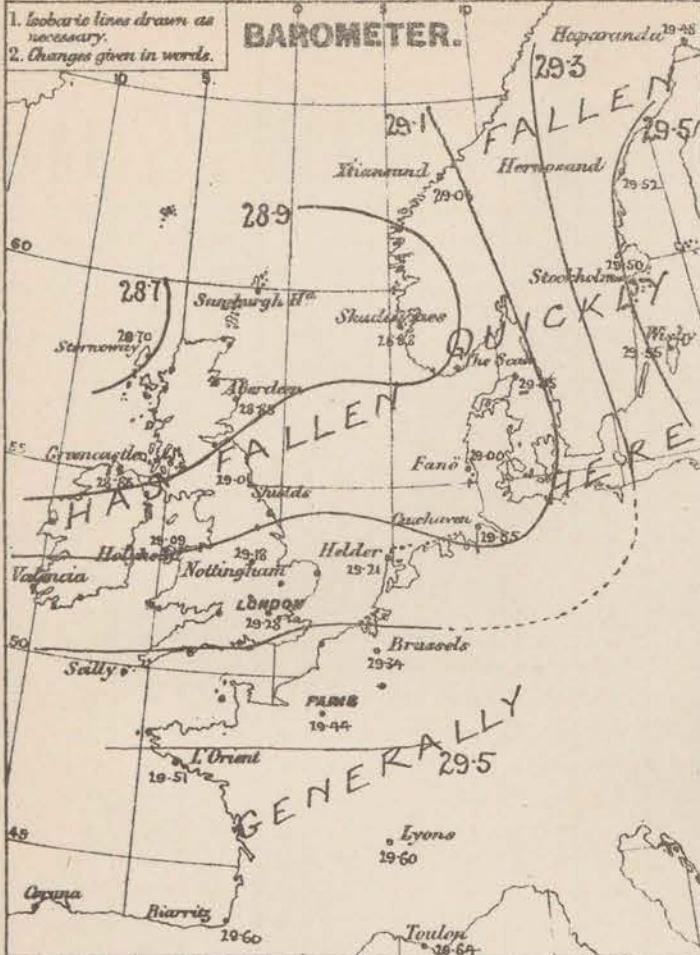
\* AN ASTERISK is inserted in all places for which information is not usually received.

† The evening observations are taken at 6 p.m. in our Islands, at 8 p.m. (Christiania time) in Sweden, Norway, and Denmark, and at 7 p.m. (Paris time) in France.

N.B.—The wind is said to "veer" when its direction changes with the sun, and to "back" when it shifts in the opposite direction.



# WEATHER CHARTS for 8 a.m. on Wednesday Nov. 28<sup>th</sup> 1877.



**REMARKS.** Weather though fine at present over the greater part of our Islands is far from being settled. In the W. of Ireland, and at Scunway it is cloudy and threatening. Rain fell yesterday over Ireland, England and France, the falls being heaviest at our SE. stations. At Yarmouth 0.8 in. fell. Temperature has fallen very considerably during the past night, and is as low as 34° in the N. of Scotland, as well as at York and Cambridge, while in the S. parts of France it is about 55°. In Sweden the weather is still cold, Haparanda reporting 12°. Some frost occurred on the grass in London early this morning. Wind is generally light to fresh in most places, W. in Ireland, WSW in England, and W. over Holland and N. Germany, while a strong SE gale is felt in the Skager Rack, and light E. breezes in the W. of Norway. It blows strongly in gusts from the S. in our SE. coasts last evening. Sea is moderate on our coasts, extremely high in the Skager Rack.

**Barometrical Indications.** The highest readings are still reported from the S. of France, and the lowest from the NW. of Scotland, the gradients being moderate. In most places the mercury is falling, but on our SE. coasts it is still recovering from the effect of a small depression, which passed over England in a NE. direction last night, and now lies off the SW. of Norway.

Subscription for these Charts payable in advance to cover delivery. Delivery by hand 10/- per quarter, book post 5/- per quarter.

Meteorological Office,  
116, Victoria Street, Westminster, S. W.

R. H. SCOTT.  
Secretary.



# DAILY WEATHER REPORT

Nov<sup>r</sup> 29<sup>th</sup>

1877.

STATIONS.	† YESTERDAY EVENING.					8 A.M. TO DAY.										PART 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 15).		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 15).			Max.	Min.		
Haparanda ...	29.67	32	NW	4	o	29.44	-.04	33	33	+	21	S	4	o	*	3	10	0.28
Hernösand ...	29.34	38	SE	5	o	29.28	-.24	35	35	+	9	S	4	o	*	*	*	0.24
Stockholm ...	29.32	36	SSE	8	+	29.33	-.17	36	36	-	1	SSW	2	7	*	*	*	0.16
Wisby ...	29.39	38	SE	4	o	29.42	-.13	39	38	+	4	NNW	6	o	*	*	*	0.16
Christiansund ...	28.87	39	SSW	2	c	28.99	-.04	39	36	+	2	ESE	1	8c	2	41	34	-
Skudesnaes ...	28.99	41	WSW	4	8	29.13	+.25	42	41	+	5	SSE	6	o	5	?	37	-
Oxö (Klansand) ...	29.11	41	W	4	8	29.25	+.34	36	36	-	6	?	2	8	3	45	36	-
Skagen (The Sound) ...	29.22	40	SW	5	8	29.33	+.28	39	37	-	2	WSW	4	8	4	43	34	0.20
Fanö ...	29.26	43	W	2	8	29.30	+.30	41	41	-	3	S	4	o	*	45	39	0.04
Cuxhaven ...	29.31	*	SSW	1	c	29.37	+.32	37	36	-	9	S	3	o	*	45	34	0.02
Sumburgh Head ...	28.62	41	SSW	4	W	28.60	-.07	39	38	+	5	NE	4	+	5	42	32	0.21
Stornoway ...	28.75	35	S	1	8c	28.71	-.05	40	39	+	6	SE	3	+	3	40	33	0.08
Thurso ...	28.76	40	S	2	c	28.68	-.10	42	41	+	3	E	8	+	1	44	36	0.03
Nairn ...	28.78	35	Z	0	8c	28.61	-.18	37	36	o	?	?	2	d	1	40	34	-
Aberdeen ...	28.72	39	SSW	3	8	28.63	-.22	45	44	+	10	SSE	8	+	6	45	35	0.69
Leith ...	28.90	41	WSW	4	8	28.59	-.31	41	40	+	2	SW	1	o	*	43	36	0.03
Shields ...	29.03	39	SW	4	8	28.67	-.34	45	43	+	9	S	6	W	4	45	35	0.06
Scarborough ...	29.11	39	SW	2	8	28.75	-.34	44	43	+	9	SSE	5	o	5	44	35	-
York ...	29.10	39	SSW	2	8	28.69	-.41	45	44	+	11	S	4	o	*	46	33	-
Nottingham ...	29.18	37	S	3	8	28.72	-.46	46	44	+	11	S	8	+	*	47	34	0.03
Ardrossan ...	28.90	44	SW	5	8	28.57	-.31	44	42	o	SW	1	c	1	45	40	0.14	
Greencastle ...	28.84	40	WSW	3	8	28.60	-.28	36	35	-	3	WSW	2	c	*	41	33	0.40
Donaghadee ...	28.94	39	SW	2	8c	28.64	-.33	35	35	o	W	3	8	2	44	34	0.17	
Kingstown ...	28.98	42	SSE	4	o	28.69	-.37	40	37	o	W	4	8c	4	47	37	0.09	
Holyhead ...	29.03	45	SW	3	8c	28.70	-.39	42	41	o	NNW	4	c	4	47	41	1.38	
Liverpool (Biston) ...	29.09	45	SE	2	8c	28.65	-.45	41	40	+	2	WSW	3	o	3	46	39	0.12
Valencia ...	28.79	46	S	6	W	28.84	-.05	45	40	+	4	W	5	8c	5	49	40	0.43
Roches Point ...	28.89	46	SSW	7	+	28.84	-.05	39	37	o	W	2	8	4	49	37	0.34	
Pembroke ...	29.09	48	SW	4	c	28.78	-.40	46	43	o	NNW	5	c	3	52	43	0.38	
Portishead ...	29.19	44	SSE	4	c	28.75	-.45	42	41	o	SW	6	o	5	50	38	0.64	
Scilly ...	29.44	48	SW	5	o	28.87	-.46	43	42	+	1	W	3	8c	*	53	42	0.30
Plymouth ...	29.24	50	WSW	5	8c	28.80	-.48	46	46	-	1	SW	5	+	5	57	42	0.27
Hurst Castle ...	29.31	45	WSW	4	8	28.98	-.33	48	46	+	6	S	7	c	5	49	41	0.08
Dover ...	29.29	44	WSW	3	8	28.65	-.43	49	47	+	10	S	6	W	*	49	39	0.02
Oxford ...	*	*	*	*	*	28.79	-.47	45	43	+	7	S	3	o	*	48	37	0.10
Cambridge ...	29.27	36	SSW	1	8	28.83	-.43	47	45	+	13	SSE	3	c	*	48	34	-
Yarmouth ...	29.26	41	SSW	3	8m	28.99	-.23	46	45	+	9	S	6	c	4	46	36	-
The Helder ...	*	*	*	*	*	29.19	-.02	40	39	-	6	SSE	2	8c	*	*	*	-
Cape Gris Nez ...	29.36	48	WSW	5	8c	29.01	-.35	45	43	-	3	S	5	8c	4	50	41	0.12
Jersey ...	29.38	48	WSW	6	8	28.94	-.46	47	46	-	2	SW	7	c	6	50	45	0.23
Brest ...	29.41	52	W	4	8	29.01	-.48	46	43	-	2	NNW	6	+	6	54	45	0.20
L'Orient ...	29.48	54	WSW	3	+	29.08	-.43	46	43	-	2	NNW	6	+	6	54	39	0.28
Rochefort ...	29.61	55	NW	2	+	29.30	-.27	50	50	-	2	WSW	6	+	4	59	48	0.14
Biarritz ...	29.60	54	SSE	1	8c	29.43	-.17	54	52	-	1	S	1	8	3	59	48	0
Corunna ...	*	*	*	*	*	29.23	-.11	42	*	-	1	SSE	6	8c	*	*	*	0.01
Brussels ...	*	*	*	*	*	29.28	-.06	40	*	-	4	S	9	c	*	*	*	*
Charleville ...	*	*	*	*	*	29.21	-.23	44	44	-	3	S	2	o	*	*	*	*
Paris ...	29.50	43	SW	3	8	29.21	-.23	44	44	-	3	S	2	o	*	*	*	*
Lyons ...	*	*	*	*	*	29.55	-.05	46	*	-	9	S	2	c	*	*	*	*
Toulon ...	29.58	50	W	4	W	29.58	-.06	54	46	+	6	W	4	8	5	54	48	1.22

## YESTERDAY'S 2 P.M. REPORTS AND REMARKS.

	Bar.	Dry.	Wet.	Wind.	Wes.	Sea.		Bar.	Dry.	Wet.	Wind.	Wes.	Sea.		
Skudesnaes ...	28.98	41	39	SW	6	0	4	Valencia .....	28.99	47	44	SSW	4	Wg	5
Thurso .....	28.75	37	36	S	1	8c	1	Seilly .....							
Scarborough ...	29.09	41	39	WSW	2	c.	2	London .....	29.29	47	43	WSW	2	8c	*
Greencastle ...	28.86	39	37	WSW	2	+	*	Rochefort ...	29.61	55	52	WNW	2	8c	3
Holyhead .....	29.09	44	41	SW	2	0	4								

The barometer is falling again, very fast at Valencia, where the wind has backed to SSW, with rain. In London the mercury rose till 11 a.m. but has begun to fall slowly since noon. Harnings. The following issued to our N. and SW. coasts. "Barometer began to fall again Valencia, wind backing towards South with rain. Hoist South cone 3 P.M. Wednesday."

## EXPLANATION OF COLUMNS.

**WEATHER.**—Beaufort scale is, b. blue sky; o. 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.

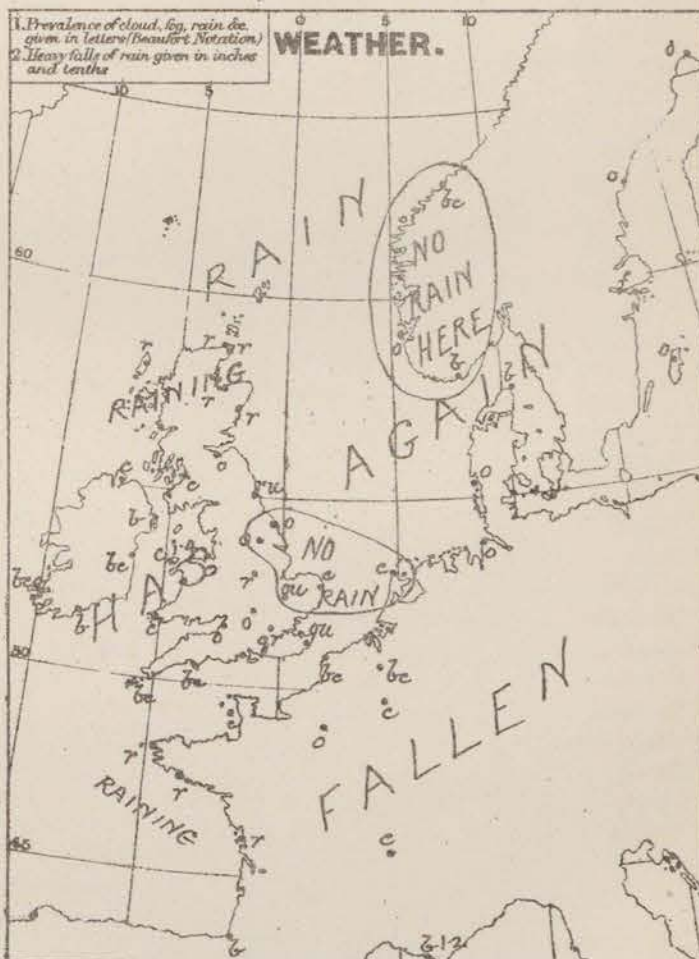
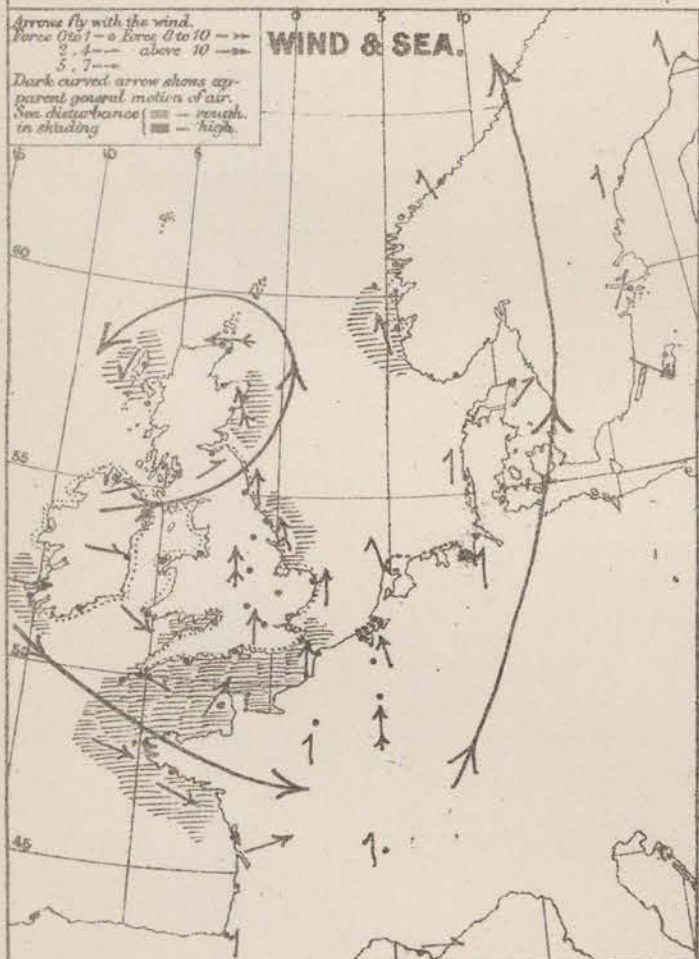
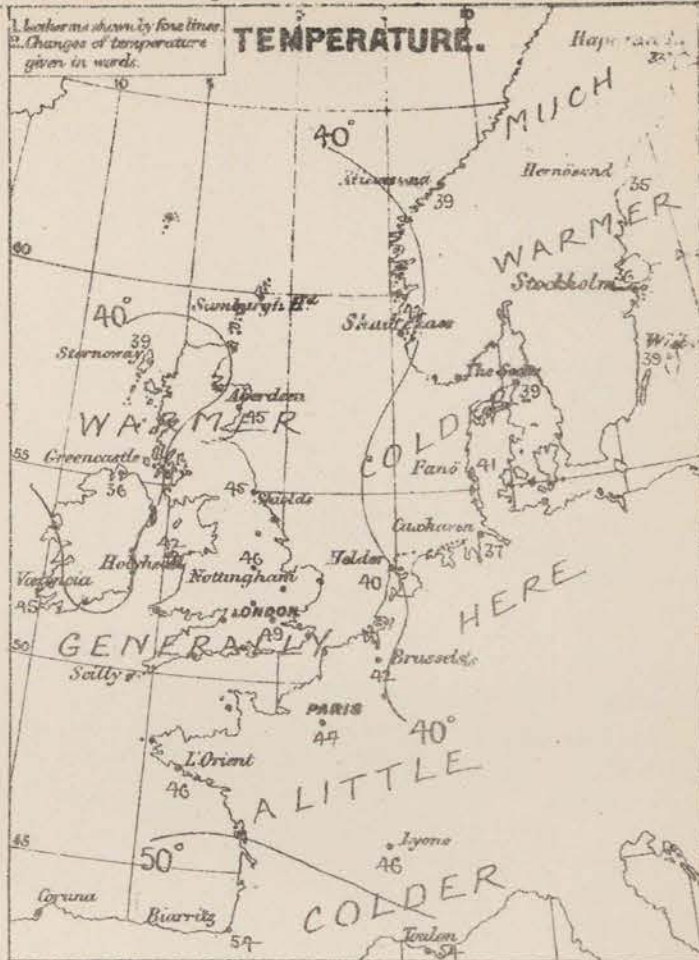
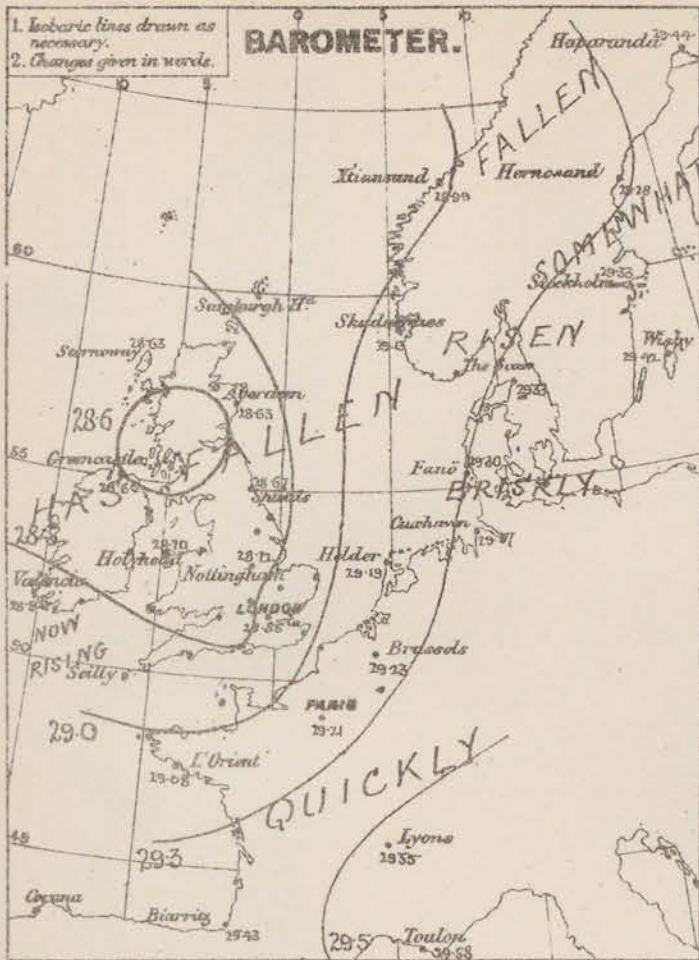
\* AN ASTERISK is inserted in all places for which information is not usually received.

† The evening observations are taken at 6 p.m. in our Islands, at 8 p.m. (Christiania time) in Sweden, Norway, and Denmark, and at 7 p.m. (Paris time) in France.

N.B.—The wind is said to "veer" when its direction changes with the sun, and to "back" when it shifts in the opposite direction.



# WEATHER CHARTS for 8 a.m. on Thursday Nov<sup>r</sup> 29 1877.



**REMARKS.** Weather is overcast, squally, and wet over nearly the whole of Great Britain, and the N. of France, but fine on our W. coast. Rain has fallen at almost all stations since yesterday afternoon, the heaviest falls reported being 1.4 in. at Holyhead, where a thunderstorm occurred in the night. At Falmouth 0.6 in. has fallen, and at Poole Point 0.5 in. A brilliant parhelion was seen at Lutterworth at 2 noon yesterday. Temperature has risen very quickly over Great Britain, and also in Sweden, but fallen in Denmark, N. Germany and France. In London the reading at 8 a.m. today (49°) was as high as the maximum value recorded yesterday. Wind is now moderate from W. at our W. stations, strong NW. in the NW. of France, and SE. (strongly a gale) over nearly the whole of Great Britain, and in Belgium. At Stormy, however, there is moderate breeze from NE. A S. gale was experienced on our W. coast during the night. Sea is rough in the SW, S. and E. moderate in St. George's Channel.

**Barometrical Indications.**  
The center of a well defined and deep depression has advanced over Scotland from the SW., causing the barometer to fall below 28.6 in. over that country, and below 29 in. in all parts of the United Kingdom. The barometer appears to be now rising in the SW. but even there the appearance is unsettled.

**Warnings.**  
Our W. S. and E. coasts were warned yesterday, and the signals are still up.



# DAILY WEATHER REPORT NOV. 30<sup>th</sup> 1877.

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.		
Haparanda ...	29.32	35	S	4	0	29.60	+ .16	30	30	- 3	SW	2	0	*	36	30	0.12	
Hernösand ...	29.45	33	S	2	0	29.70	+ .42	33	33	- 2	SSW	2	0	*	*	*	-	
Stockholm ...	29.52	35	SSE	1	0	29.64	+ .31	40	38	+ 4	SSE	4	0	*	*	*	-	
Wisby ...	29.58	37	SW	6	0	29.60	+ .18	38	36	- 1	SSE	6	0	*	*	*	-	
Christiansund ...	29.24	38	E	1	0	29.30	+ .34	38	35	- 1	E	4	0	2	41	34	-	
Skudesnaes ...	29.12	45	SE	6	0	29.63	+ .50	44	41	+ 2	SE	6	0	4	45	43	0.12	
Oxö (Xtiansand) ...	29.26	44	S	8	0	29.28	+ .03	44	43	+ 8	SSE	4	0	5	?	?	-	
Skagen (The Seaw) ...	29.36	43	SSW	6	0	29.38	+ .05	44	42	+ 5	S	6	0	6	45	39	0.08	
Fanö ...	29.16	40	S	6	0	29.29	- .01	37	37	- 4	S	4	0	*	41	37	0.08	
Cuxhaven ...	29.22	2	SSE	3	0	29.02	- .05	39	39	+ 2	S	2	0	*	43	34	-	
Sumburgh Head																		
Stornoway	28.54	39	SW	2	0	28.80	+ .17	32	31	- 7	WSW	1	0	3	40	30	0.04	
Thurso ...	28.58	45	SE	4	0	28.84	+ .13	34	34	- 6	S	1	0	3	47	34	0.65	
Wick ...	28.58	46	ESE	7	0	28.88	+ .20	42	40	0	SE	3	0	5	47	37	0.61	
Nairn ...	28.62	37	NW	1	0	28.83	+ .22	33	30	- 4	Z	0	0	1	38	30	0.01	
Aberdeen ...	28.63	40	SSW	1	0	28.87	+ .24	41	40	- 4	S	3	0	3	46	34	0.72	
Leith ...	28.68	41	WSW	1	0	28.80	+ .24	37	36	- 4	SE	2	0	*	44	33	0.04	
Shields ...	28.76	43	WSW	3	0	28.90	+ .28	36	35	- 9	S	1	0	3	46	35	0.13	
Scarborough ...	28.80	39	SW	3	0	28.96	+ .21	37	36	- 7	SSW	2	0	2	46	35	0.17	
York ...	28.84	40	SW	1	0	28.94	+ .25	36	36	- 9	S	1	0	*	46	33	0.09	
Nottingham ...	28.90	40	SSW	4	0	28.97	+ .25	39	38	- 7	SSW	1	0	*	46	33	0.17	
Ardrossan ...	28.67	44	WSW	2	0	28.72	+ .15	42	41	- 2	SE	3	0	4	46	41	0.28	
Greencastle ...	28.67	38	SW	1	0	28.68	+ .08	43	42	+ 7	W	2	0	*	44	34	0.45	
Donaghadee ...	28.71	34	W	2	0	28.76	+ .12	40	40	+ 5	W	3	0	1	40	33	0.08	
Kingstown ...	28.74	42	W	3	0	28.91	+ .22	44	41	+ 4	W	6	0	5	44	38	0.13	
Holyhead ...	28.75	45	SW	4	0	28.85	+ .15	45	43	+ 3	W	7	0	5	46	40	0.35	
Liverpool (Bidston) ...	28.81	40	SSE	2	0	28.89	+ .24	39	38	- 2	S	3	0	1	45	37	0.02	
Valencia ...	28.89	46	NNW	7	0	29.26	+ .42	48	42	+ 3	NNW	6	0	5	49	41	0.40	
Roche's Point...	28.86	40	W	5	0	29.14	+ .30	45	43	+ 6	NN	6	0	4	48	39	0.19	
Pembroke ...	28.84	46	WSW	6	0	29.05	+ .27	49	47	+ 3	NNW	7	0	4	49	43	0.17	
Portishead ...	28.94	43	WSW	4	0	29.05	+ .30	43	41	+ 1	WSW	3	0	3	47	38	0.07	
Scilly ...																		
Plymouth ...	28.99	45	WSW	5	0	29.16	+ .29	44	43	+ 1	NNW	4	0	*	48	42	0.03	
Hurst Castle ...	28.99	48	W	4	0	29.09	+ .29	45	43	- 1	NNW	3	0	3	50	40	0.09	
Dover ...	29.06	43	NNW	4	0	29.08	+ .10	46	44	- 2	SSW	5	0	4	50	41	0.47	
London ...	29.03	42	W	2	0	29.03	+ .18	41	40	- 8	WSW	2	0	*	50	39	0.21	
Oxford ...	*	*	*	*	*	29.03	+ .24	45	44	0	W	1	0	*	47	37	-	
Cambridge ...	29.00	37	S	1	0	?	?	40	40	- 7	S	1	0	*	49	35	0.14	
Yarmouth ...	28.97	41	SW	4	0	29.05	+ .06	43	42	- 3	S	4	0	3	47	38	0.08	
The Helder ...	*	*	*	*	*	29.19	.00	37	36	- 3	SSE	1	0	*	*	*	0.04	
Cape Gris Nez	29.15	48	WSW	5	0	10	+ .09	43	41	- 2	S	5	0	4	50	39	0.43	
Jersey ...	29.13	47	SW	4	0	29.23	+ .29	47	44	0	NNW	6	0	5	49	41	0.35	
Brest ...	29.15	50	W	4	0	29.34	+ .33	50	45	+ 4	NN	5	0	6	54	43	0.12	
L'Orient ...	29.24	45	NNW	7	0	29.41	+ .33	58	46	+ 4	NN	6	0	7	50	39	0.32	
Rochefort ...	29.08	54	W	4	0	29.50	+ .20	50	46	0	NNW	8	0	7	55	45	0.24	
Biarritz ...	29.53	55	WSW	4	0	29.68	+ .25	50	48	- 4	WSW	7	0	7	59	46	0.43	
Corunna ...	*	*	*	*	*			*	*						*	*	*	
Brussels ...	*	*	*	*	*	29.24	+ .01	38	*	- 4	S	6	0	*	*	*	0.08	
Charleville ...	*	*	*	*	*	29.27	- .01	40	*	0	S	6	0	*	*	*	*	
Paris ...	29.24	45	SW	3	0	29.32	+ .11	41	40	- 3	SSW	3	0	*	*	*	-	
Lyons ...	*	*	*	*	*	29.53	- .02	49	*	+ 3	SE	4	0	*	*	*	*	
Toulon ...	29.44	55	S	4	0	29.56	- .02	45	41	- 9	NN	4	0	5	57	?	-	

## YESTERDAY'S 2 P.M. REPORTS AND REMARKS.

	Bar.	Dry.	Wet.	Wind.	Wes.	Sea.		Bar.	Dry.	Wet.	Wind.	Wes.	Sea.		
Skudesnaes ...	29.13	45	41	SE	6	0	4	Valencia ...	28.88	48	44	NNW	5	eq. hp	5
Thurso .....	28.87	45	43	SE	4	19	3	Scilly .....							
Scarborough ...	28.72	43	42	SW	3	0	4	London .....	28.92	46	42	W	3	bc	*
Greencastle ...	28.63	41	40	SW	2	30	*	Rochefort ...	29.34	52	48	NNW	6	t	7
Holyhead .....	28.71	44	42	WSW	4	0	3								

Barometer is rising slightly in the W and S, but still falls in the N and E. Wind is NW at Valencia, SW to SE elsewhere. Weather is showery and squally.

## EXPLANATION OF COLUMNS.

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

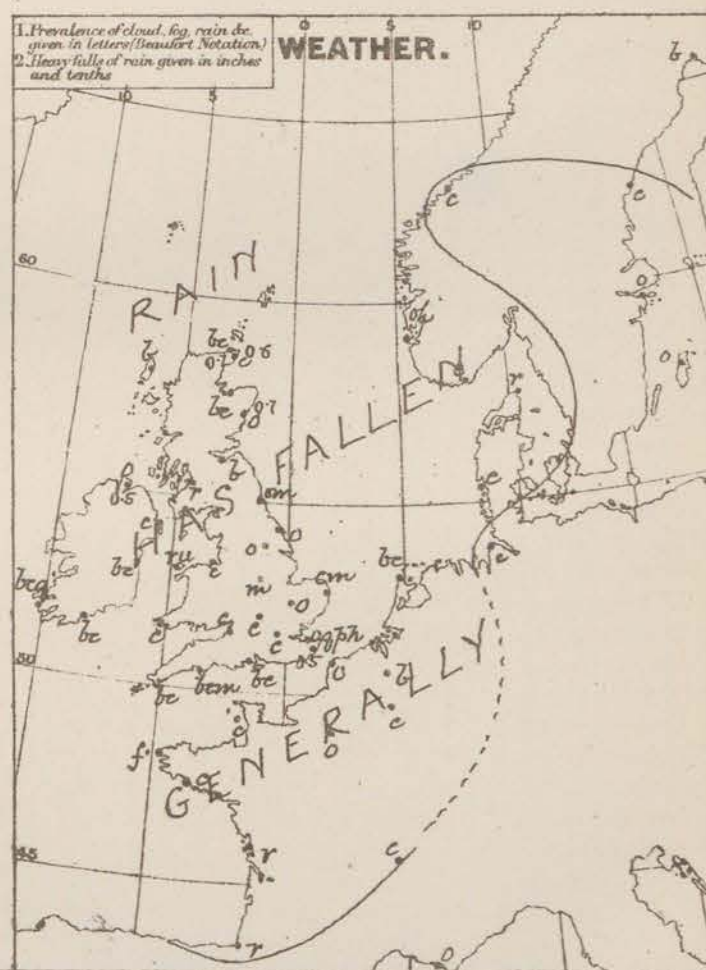
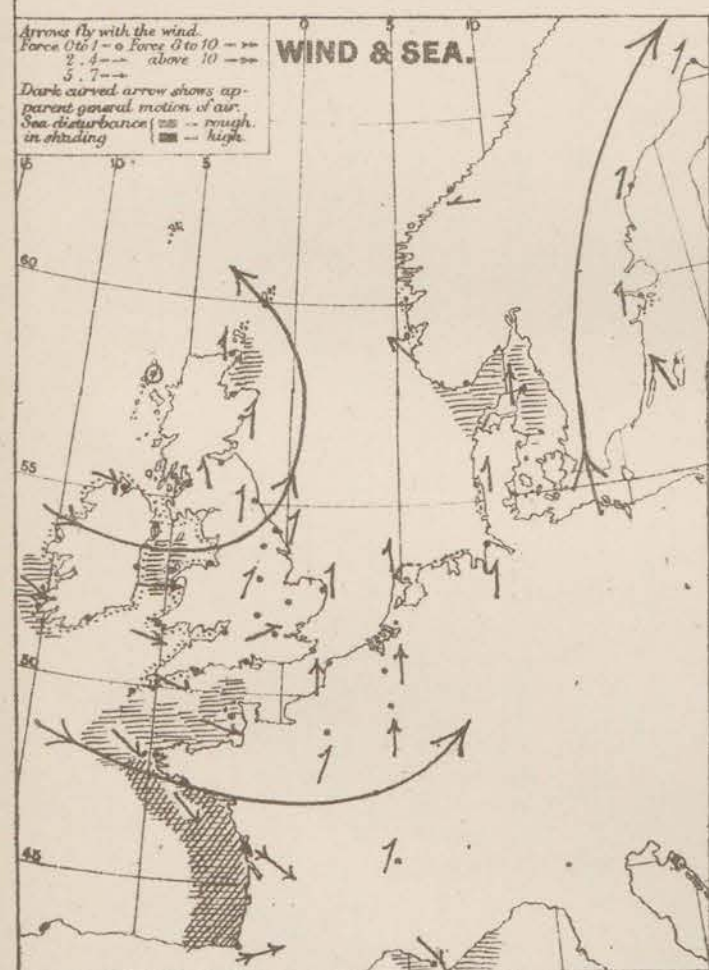
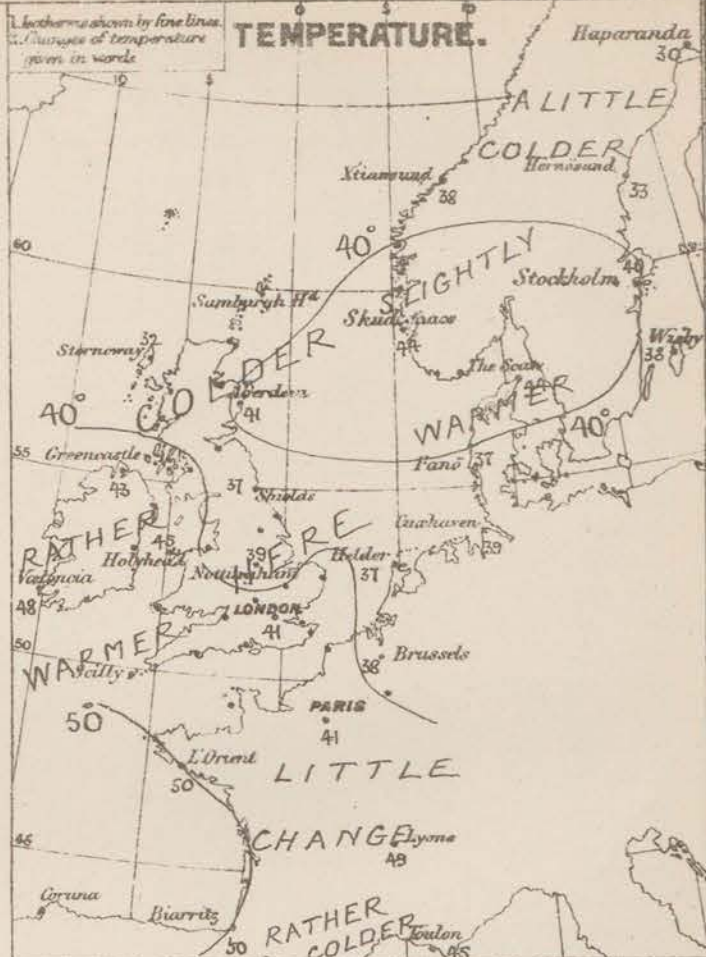
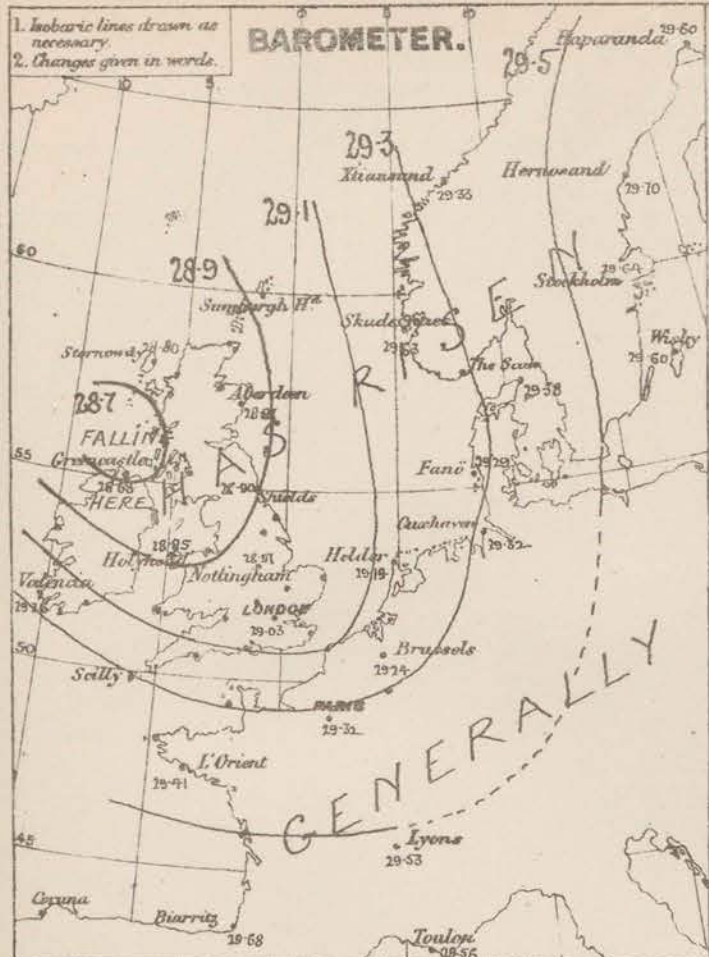
\* AN ASTERISK is inserted in all places for which information is not usually received.

† The evening observations are taken at 6 p.m. in our Islands, at 8 p.m. (Christiania time) in Sweden, Norway, and Denmark, and at 7 p.m. (Paris time) in France.

N.B.—The wind is said to "veer" when its direction changes with the sun, and to "back" when it shifts in the opposite direction.



# WEATHER CHARTS for 8 a.m. on Friday Nov. 30. 1877.



Dotted line is drawn round the coast to show the signals have been left up.

**REMARKS.** Weather is cloudy over the whole of W. Europe, with rain at Holyhead, Adrossa, the Shaw and the W. of France. At both Dover and Chatham hail showers are reported, while over our E. coast, and at the mouth of the Channel fog and mist prevail. Temperature has fallen at all our more E. and N. stations, and is now rather low over Central England, and N. of Scotland; it varies from 32° to 42° over Scotland, from 40° to 48° over Ireland and from 36° to 46° over England. Winds is W. to NW at our W. and NW stations, as well as in the W. of France, but draws into S. on both shores of the North Sea, and into E. at Christiansund. It is strong on our W. coasts, and increases to a gale over the Bay of Biscay, but in the E. it is generally light. Sea is rough in the W. and NW, slight in the E.

Barometrical Indications.  
The mercury has begun to fall again in the N. of Ireland during the past night, but in all other places it has risen — briskly in the NW. Gradients for NW winds are steep over Ireland.  
Humidity. Signals have been lowered in the E. and SE, but are still flying on our W. coasts.

Meteorological Office, R. H. SCOTT.  
116, Victoria Street, Westminster, S.W. Secretary.



CORRECTIONS AND ADDITIONS TO THE REPORTS FOR NOV<sup>R</sup> 1877

## 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 8.)	SHADE TEMP.		Amount of Rainfall.	
				Dir.	Force. (0 to 12)		Reading at 32° F. and Sea Level.	Difference from yesterday.	Dry.	Wet.	Difference from yesterday.	Dir.	Force. (0 to 12).			Max.	Min.		
1 <sup>st</sup>	Skagen	29.49	46	W	8	b	29.53	+30	46	42	-1	N	2	E	4	b	48	41	0.01
	Silly	30.41	54	W	5	o	30.49	+20	54	49	-5	N	1	o	o	o	56	53	0.02
	Silly 2pm						30.46	-	58	53	-5	N	2	o	o	o	57	53	0.02
2 <sup>nd</sup>	Helsingør	29.58	34	E	2	o	29.56	-01	33	33	-	N	2	o	o	o	27	30	0.01
	Helsingør	29.62	38	NE	3	o	29.76	+34	35	34	-1	N	2	o	o	o	27	30	0.01
	Stockholm	29.42	40	W	6	b	29.76	+54	35	34	-1	N	2	o	o	o	27	30	0.01
	Norby	29.44	43	W	9	N	29.80	+50	42	40	-2	N	2	o	o	o	27	30	0.01
	Christiansund	29.79	43	W	2	N	29.80	+21	44	42	-2	N	2	o	o	o	29	29	0.01
	Skudenes	30.02	46	W	2	N	30.00	+23	48	47	-1	N	2	o	o	o	29	29	0.01
	O25.	29.97	45	SW	4	b	30.02	+37	45	43	-2	N	2	o	o	o	50	43	0.01
	Silly	30.41	53	SW	3	o	30.13	-36	54	51	-3	N	2	o	o	o	59	52	0.01
	Coruna	*	*	*	*	*	30.18	-	61	58	-3	N	2	o	o	o	59	52	0.01
	Paris	30.45	52	W	2	o	30.33	-12	52	50	-2	N	2	o	o	o	59	52	0.01
	London	30.13	63	W	4	b	30.17	+04	55	50	-5	N	2	o	o	o	64	35	0.01
	Silly 2pm						29.96	-	55	54	-1	N	2	o	o	o	55	51	0.02
	Silly	29.93	55	SW	3	o	30.16	+03	54	59	+5	N	2	o	o	o	55	51	0.02
	Coruna	*	*	*	*	*	30.16	-02	55	58	+3	N	2	o	o	o	55	51	0.02
	Silly 2pm						30.16	-	54	50	-4	N	2	o	o	o	55	51	0.02
	Silly	30.14	51	SW	4	o	29.85	-31	54	51	-3	N	2	o	o	o	55	51	0.02
	Silly	29.74	54	SW	6	o	29.84	-01	54	52	-2	N	2	o	o	o	56	52	0.03
	London	29.93	55	SW	3	o	29.93	-01	54	52	-2	N	2	o	o	o	59	48	0.02
	Coruna	*	*	*	*	*	30.06	-04	54	52	-2	N	2	o	o	o	59	48	0.02
	London	30.03	55	2	0	o	30.10	-03	54	52	-2	N	2	o	o	o	59	52	0.02
	Silly 2pm						29.84	-	56	54	-2	N	2	o	o	o	58	53	0.02
	Silly	29.86	55	SW	6	o	29.73	-11	57	57	+0	N	2	o	o	o	58	53	0.02
	Coruna	*	*	*	*	*	30.13	+07	57	57	+0	N	2	o	o	o	58	53	0.02
	Silly 2pm						29.65	-	57	56	-1	N	2	o	o	o	57	51	0.02
	Silly	29.58	57	SW	8	N	29.63	-10	53	50	-3	N	2	o	o	o	57	51	0.02
	Coruna	*	*	*	*	*	29.95	-18	59	57	-2	N	2	o	o	o	57	51	0.02
	Silly 2pm						29.66	-	54	57	+3	N	2	o	o	o	57	51	0.02
	Silly	29.68	53	SW	6	b	29.79	+16	53	51	-2	N	2	o	o	o	57	51	0.02
	Coruna	*	*	*	*	*	30.15	+20	52	52	+0	N	2	o	o	o	57	51	0.02
	Silly 2pm						29.32	-	55	52	-3	N	2	o	o	o	56	53	0.03
	Silly	29.79	54	SW	6	o	29.57	-22	54	53	-1	N	2	o	o	o	56	53	0.03
	London	30.02	54	W	3	b	30.01	-14	57	57	+0	N	2	o	o	o	59	48	0.02
	Coruna	*	*	*	*	*	30.01	-14	57	57	+0	N	2	o	o	o	59	48	0.02
	Silly 2pm						29.46	-	54	52	-2	N	2	o	o	o	58	48	0.03
	Silly	29.42	56	SW	6	o	29.31	-26	53	49	-4	N	2	o	o	o	58	48	0.03
	Coruna	*	*	*	*	*	29.24	-14	57	57	+0	N	2	o	o	o	58	48	0.03
	Silly 2pm						29.33	-	51	49	-2	N	2	o	o	o	56	49	0.02
	Silly	29.41	53	SW	9	o	29.13	-18	53	52	-1	N	2	o	o	o	56	49	0.02
	Coruna	*	*	*	*	*	29.89	+02	52	52	+0	N	2	o	o	o	56	49	0.02
	Helsingør	29.80	40	S	4	b	29.85	+05	39	39	+0	N	2	o	o	o	56	49	0.02
	Helsingør	29.67	42	S	6	b	29.72	+05	42	42	+0	N	2	o	o	o	56	49	0.02
	Stockholm	29.69	44	SE	4	b	29.74	+05	43	42	-1	N	2	o	o	o	56	49	0.02
	Norby	29.77	45	SE	6	N	29.78	+01	43	42	-1	N	2	o	o	o	56	49	0.02
	Christiansund	29.12	50	SE	2	b	29.02	-08	54	45	-9	N	2	o	o	o	46	30	0.01
	Skudenes	29.07	50	SE	9	N	28.91	-31	51	49	-2	N	2	o	o	o	45	29	0.01
	O25.	29.34	49	S	1	o	29.17	-21	49	43	-6	N	2	o	o	o	50	45	0.01
	Silly	29.68	54	W	9	N	28.85	-23	45	43	-2	N	2	o	o	o	55	42	0.05
	Silly 2pm						28.78	-	50	48	-2	N	2	o	o	o	55	42	0.05
13 <sup>th</sup>	Cuxhaven	29.28	54	SE	1	N	29.50	+20	48	48	+0	SW	6	o	o	o	52	44	0.03
	Silly	28.92	49	W	8	o	29.37	+52	50	48	-2	N	2	o	o	o	52	44	0.03
	Coruna	*	*	*	*	*	30.16	+27	49	49	+0	N	2	o	o	o	52	44	0.03
	Silly 2pm						29.55	-	51	49	-2	N	2	o	o	o	52	44	0.03
	Silly	29.70	51	W	6	o	30.02	+65	51	48	-3	N	2	o	o	o	52	47	0.04
	Coruna	*	*	*	*	*	30.18	-01	52	52	+0	N	2	o	o	o	52	47	0.04
	Silly 2pm						30.03	-	54	52	-2	N	2	o	o	o	52	47	0.04
	Coruna	30.08	53	S	8	N	30.23	+21	56	53	-3	N	2	o	o	o	56	48	0.07
	Silly	*	*	*	*	*	30.28	+10	56	56	+0	N	2	o	o	o	56	48	0.07
	Silly 2pm						30.24	-	56	56	+0	N	2	o	o	o	56	48	0.07
	Coruna	*	*	*	*	*	29.45	-03	46	41	-5	N	2	o	o	o	52	42	0.03
16 <sup>th</sup>	Burnburgh H.	29.70	49	SW	5	N	29.66	+02	42	40	-2	SW	4	o	o	o	51	39	0.12
	Thurso	29.66	46	SW	2	o	29.34	+11	54	50	-4	N	2	o	o	o	54	48	0.07
	Silly	30.22	56	SW	5	b	30.33	+10	58	58	+0	N	2	o	o	o	54	48	0.07
	Coruna	*	*	*	*	*	30.42	-	54	50	-4	N	2	o	o	o	54	48	0.07
	Silly 2pm						29.91	+46	45	42	-3	N	2	o	o	o	54	48	0.07
	Silly	30.46	52	N	2	o	30.42	+08	50	47	-								



## 1. 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. (10 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.	
24th	Christiansburg	28.88	38	SSE	1	N	29.16	+ .47	38	37	+ 2	SSW	2	0	3	2	34	0.16	
	Skudskov	28.96	40	ZZZ	2	O	29.26	?	37	36	- 2	NNW	6	2	4	43	?	0.08	
	Oss	28.93	39	ZZZ	2	O	29.12	+ .42	39	39	+ 2	NNW	4	2	3	39	44	0.1	
	Seilly	29.85	49	W	5	O	29.32	- .52	52	52	+ 2	SSW	4	5	5	52	46	0.33	
	Cornwall	*	*	*	*	*	29.99	- .20	57	*	0	SW	6	0	*	*	*	0.1	
	Valentia 2pm	-	-	-	-	-	29.31	-	48	42	-	NNW	4	2	1	-	-	-	
	Seilly 2pm	-	-	-	-	-	29.08	-	46	46	-	NNW	4	2	1	-	-	-	
25th	Seilly	29.04	45	NNW	10	N	29.92	+ .60	48	44	+ 4	NNW	6	0	6	53	43	0.18	
26th	Seilly	20.06	47	NNW	5	O	29.84	- .08	50	47	+ 2	SSW	6	0	5	50	46	0.02	
	Lorin	20.05	46	NW	3	O	20.04	+ .23	48	46	+ 2	SW	6	0	5	50	44	0.1	
	Cornwall	*	*	*	*	*	29.97	- .22	54	*	- 1	SW	6	0	*	*	*	0.1	
	Seilly 2h	-	-	-	-	-	29.57	-	52	52	-	S	0	2	1	-	-	-	
27th	Seilly	29.40	55	WSW	6	N	29.35	- .49	50	50	0	2	0	1	5	55	49	0.60	
	Cornwall	*	*	*	*	*	29.59	- .28	60	*	+ 6	2	0	5	*	*	*	0.1	
	Seilly 2pm	-	-	-	-	-	29.22	-	49	48	-	NNW	5	0	5	52	47	0.15	
28th	Seilly 2pm	28.88	40	W	2	h-c	28.80	- .01	38	34	- 4	NNW	2	0	4	47	43	0.1	
	Seilly 2pm	29.09	42	S	1	O	29.10	- .12	39	37	- 2	NNW	3	0	5	52	45	0.51	
	Seilly	29.30	49	NNW	6	O	29.38	+ .03	48	44	- 4	NNW	3	0	4	44	44	0.1	
	Cornwall	*	*	*	*	*	29.76	+ .16	58	54	- 4	NNW	3	0	4	44	44	0.1	
	Seilly 2pm	-	-	-	-	-	29.29	-	50	46	- 4	NNW	6	0	4	44	44	0.02	
	Seilly 2pm	28.43	41	SE	4	O	28.37	+ .07	43	40	+ 3	NNW	6	0	4	44	44	0.23	
	Seilly	29.14	57	SSW	4	O	28.93	- .45	47	44	- 3	NNW	6	0	4	44	44	0.1	
	Cornwall	*	*	*	*	*	29.57	- .18	53	50	- 3	NNW	9	0	4	44	44	0.1	
	Seilly 2pm	-	-	-	-	-	29.02	-	47	44	- 3	NNW	6	0	4	44	44	0.1	
30th	Seilly 2pm	29.12	43	SE	6	N	29.96	+ .09	45	41	+ 4	SSW	5	0	4	47	40	0.20	
	Seilly	29.02	47	NNW	4	O	29.26	+ .33	51	46	+ 4	NNW	10	0	4	51	42	0.20	
	Cornwall	*	*	*	*	*	29.97	+ .40	52	48	- 4	NNW	9	0	4	51	42	0.1	
	Seilly 2pm	-	-	-	-	-	29.51	-	52	48	- 4	NNW	7	0	4	51	42	0.1	
CORRECTIONS																			
31st	Nottingham	29.18	-	-	-	-	29.03	-	-	-	-	-	-	-	-	-	-	-	
	Poch's Point	-	-	-	-	-	29.03	-	-	-	-	-	-	-	-	-	-	0.55	
	Androsau	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.52	
	Green castle	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.05	
	Fortishead	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
1st	Jersey	-	-	-	-	-	29.16	- .13	-	-	-	-	-	-	-	-	-	0.10	
2nd	Sunninghly Hl	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
3rd	Stonemary	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
4th	Valentia	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.02	
5th	Dover	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
6th	Wick	29.22	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
7th	Haparaunda	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.51	
8th	Fortishead	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.14	
9th	Thurso	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.03	
10th	Cambridge	-	-	-	-	-	28.84	- .39	-	-	-	-	-	-	-	-	-	0.24	
11th	Green castle	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.03	
12th	Cambridge	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
13th	Kingstown	-	-	-	-	-	28.87	- .37	-	-	-	-	-	-	-	-	-	-	
14th	Plymouth	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
15th	Caoford	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.23	
16th	Cape Cris Neg	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
17th	Nottingham	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
18th	Holyhead	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
19th	Hurst Castle	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
20th	Dover	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
21st	Stonemary	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
22nd	Kingstown	29.83	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.48	
23rd	Jersey	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
24th	Wick	29.66	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
25th	Androsau	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
26th	Green castle	29.74	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
27th	Plymouth	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
28th	Hurst Castle	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
29th	Jersey	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
30th	Thurso	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.04	
1st	Valentia	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
2nd	Cambridge	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
3rd	Valentia 2pm	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
4th	Nottingham	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
5th	Hurst Castle	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
6th	Dover	20.08	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
7th	Dover	29.65	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.06	
8th	Kingstown	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.23	
9th	Aberdeen	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
10th	Kingstown	29.15	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.13	
11th	Hurst Castle	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
12th	Jersey	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
13th	Rockfort	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
14th	Kingstown	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
15th	Wick	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
16th	Hurst Castle	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
17th	Jersey	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.60	
18th	Hurst Castle	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
19th	Holyhead 2pm	-	-	-	-	-	28.77	-	-	-	-	-	-	-	-	-	-	-	