

1164

METEOROLOGICAL OFFICE.

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DAILY WEATHER REPORTS.

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1<sup>ST</sup> JULY — 31<sup>ST</sup> DECEMBER,  
1878.



MAP SHOWING ALL THE STATIONS REPORTING BY TELEGRAPH  
DAILY TO THE METEOROLOGICAL OFFICE, JAN. 1, 1878.

*Davies & Co., Lith., London.*



# DAILY WEATHER REPORT

DEC 1<sup>st</sup>

1878.

STATIONS.	† YESTERDAY EVENING.						3 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.			
			Direc.	Force. (0 to 12).			Dry.	Wet.	Direc.	Force. (0 to 12).	Max.			Min.					
															Difference from 3 a.m. yesterday.		Difference from 3 a.m. yesterday.		
Haparanda ...	30.02	16	Z	0	0	30.08	+ .12	18	18	- 4	Z	0	f	*	21	7	-		
Hernösand ...	30.03	35	Z	0	0	29.98	- .17	21	20	+ 17	N	4	s	*	*	*	0.12		
Stockholm ...	29.68	32	NNE	4	8	29.73	- .01	36	36	+ 6	ESE	2	0	*	*	*	0.20		
Wisby ...	29.60	35	NN	4	0	29.65	+ .07	37	36	+ 4	S	2	bc	*	*	*	0.24		
Christiansund ...	29.87	26	ESE	1	0	29.89	- .06	27	25	+ 3	E	2	bc	2	27	15	-		
Skudesnaes ...	29.85	30	Z	0	0	29.78	- .12	28	25	- 2	ENE	2	0	2	?	?	-		
Oxö (Xtiansund) ...	29.85	31	NNH	4	bc	29.75	- .14	31	29	+ 2	NNE	4	0	2	?	28	-		
Skagen (The Sæw) ...																			
Fanö ...	29.77	33	NN	2	0	29.77	+ .11	32	32	- 2	Z	0	c	*	36	32	-		
Cuxhaven ...	29.72	41	NNH	4	0	29.82	+ .21	36	36	- 5	SSH	2	s	*	41	34	0.01		
Sumburgh Head ...	29.76	39	SSE	3	0	29.76	- .14	39	36	+ 4	E	3	c	3	39	36	0.12		
Stornoway ...	29.75	41	Z	0	0	29.76	- .07	40	40	+ 5	N	6	bc	4	43	35	0.20		
Thurso ...	29.76	36	SSE	2	r	29.69	- .20	42	42	+ 12	SSH	1	r	2	43	29	0.22		
Wick ...	29.71	39	Z	0	r	29.73	- .14	34	33	- 3	NN	1	bc	0	40	32	0.10		
Nairn ...	29.77	37	SH	1	0	29.71	- .18	36	34	+ 4	Z	0	0	1	39	32	0.09		
Aberdeen ...	29.82	35	SSH	1	0	29.66	- .26	37	36	+ 2	NNH	3	bc	2	39	32	0.02		
Leith ...	29.83	38	H	1	r	29.66	- .27	38	38	+ 3	H	1	q	*	41	34	0.08		
Shields ...	29.90	37	SH	1	f	29.66	- .32	38	37	+ 5	NNH	2	0	2	38	32	0.11		
Scarborough ...	29.92	36	SSH	1	0	29.63	- .35	38	37	+ 5	SSH	1	q	2	38	33	0.07		
York ...	29.94	36	NE	1	0	29.66	- .34	40	39	+ 6	H	1	bc	*	40	32	0.09		
Nottingham ...	29.97	35	ESE	1	0	?	?	37	37	+ 4	SH	1	0	*	?	32	0.02		
Ardrossan ...	29.83	45	SH	2	r	29.69	- .27	42	40	+ 6	N	2	c	2	46	37	0.19		
Greencastle ...	29.84	43	H	3	r	29.82	- .12	44	41	+ 5	NNH	3	c	*	46	38	0.25		
Donsghadee ...	29.89	41	SSH	3	r	29.78	- .21	41	40	+ 2	H	4	c	2	42	38	0.11		
Kingstown ...	29.93	42	Z	0	0	29.87	- .14	41	40	+ 2	NNH	4	bc	4	43	38	0.01		
Holyhead ...	29.93	41	SSH	1	bc	29.80	- .16	45	44	+ 5	NNH	5	c	3	47	39	0.09		
Liverpool (Bidston) ...	29.93	38	S	1	c	29.72	- .27	42	41	+ 7	H	3	c	3	43	35	0.12		
Valencia ...	30.03	47	NNH	4	0	30.05	- .03	48	47	0	NN	4	0	4	52	39	0.19		
Roche's Point ...	29.96	44	NNH	3	0	29.98	- .08	45	42	+ 2	NN	2	c	3	48	42	0.15		
Pembroke ...	29.96	45	NNH	1	bc	29.88	- .09	45	43	+ 2	NN	3	c	1	47	41	0.07		
Portishead ...																			
Seilly ...	30.00	49	SSH	3	r	29.93	- .08	49	48	+ 1	N	6	0	6	49	47	0.07		
Plymouth ...	29.99	42	NN	1	0	29.88	- .08	38	38	- 2	NN	1	of	*	45	36	-		
Hurst Castle ...	29.97	41	ESE	2	0	29.84	- .10	39	38	- 3	Z	0	r	1	42	35	0.02		
Dover ...	30.00	36	N	1	bc	29.84	- .16	41	39	+ 8	SH	4	bc	3	42	32	-		
London ...	30.00	39	Z	0	sm	29.83	- .16	36	35	+ 3	SSH	1	odg	*	40	32	0.01		
Oxford ...	29.99	36	Z	0	f	29.82	- .18	36	36	+ 4	Z	0	r	*	37	32	0.03		
Cambridge ...	29.98	34	NNH	1	0	29.80	- .20	34	34	+ 9	SSH	1	r	*	38	24	0.02		
Yarmouth ...	29.96	35	NNH	1	c	29.81	- .15	35	34	+ 1	SH	2	of	3	38	33	-		
The Helder ...	*	*	*	*	*	29.83	+ .02	39	37	- 3	SH	1	0	*	*	*	-		
Cape Gris Nez ...	29.99	37	S	1	0	29.86	- .13	36	36	- 1	S	2	0	1	41	36	-		
Jersey ...																			
Brest ...	30.05	48	N	3	0	29.95	- .07	45	43	- 1	Z	0	0	3	50	39	0.24		
L'Orient ...	30.05	46	NN	3	c	29.95	- .04	41	?	- 4	E	1	c	3	50	39	0.20		
Rochefort ...	30.00	50	Z	0	bc	29.92	- .14	45	43	+ 4	SE	3	0	3	55	36	0.28		
Biarritz ...	30.03	52	SSH	7	r	29.96	- .24	50	46	+ 7	SSH	9	r	7	54	43	0.63		
Corunna ...	*	*	*	*	*										*	*	*		
Brussels ...	*	*	*	*	*	29.91	- .04	34	33	- 2	SH	2	f	*	40	32	-		
Charleville ...	*	*	*	*	*	29.89	- .03	31	*	- 2	SE	1	f	*	*	*	*		
Paris ...	30.05	35	Z	0	s	29.92	- .14	36	35	+ 1	H	1	0	*	*	*	0.12		
Lyons ...	*	*	*	*	*	29.97	- .09	46	*	- 3	N	4	c	*	*	*	*		
Toulon ...	29.89	39	NN	6	0	29.89	- .05	37	34	- 4	H	3	c	5	46	34	-		

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

	Bar.	Dry.	Wet.	Wind.	Wes.	Sea.		Bar.	Dry.	Wet.	Wind.	Wes.	Sea.		
Skudesnaes ...	29.88	33	29	E	2	0	2	Valencia .....	29.99	50	49	NN	4	mod	4
Thurso .....	29.8	35	35	SSE	1	0	2	Scilly .....	30.03	49	48	NNN	5	0	5
Scarborough ...	29.94	36	33	NNN	1	0	2	London .....	29.99	40	36	SE	1	of.	#
Mullaghmore ...	29.90	47	46	SSH	3	0	2	Rochefort ...	29.98	46	45	SSE	4	bc	3
Holyhead .....	29.96	44	41	SSH	2	0	1								

The barometer has fallen a little more at all but our 5m stations, but hardly any other change is reported

Mullaghmore	29.92	46	NNE	5	r	29.90	- .07	47	45	+ 3	NNH	5	cu	4	47	45	0.06
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## 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.

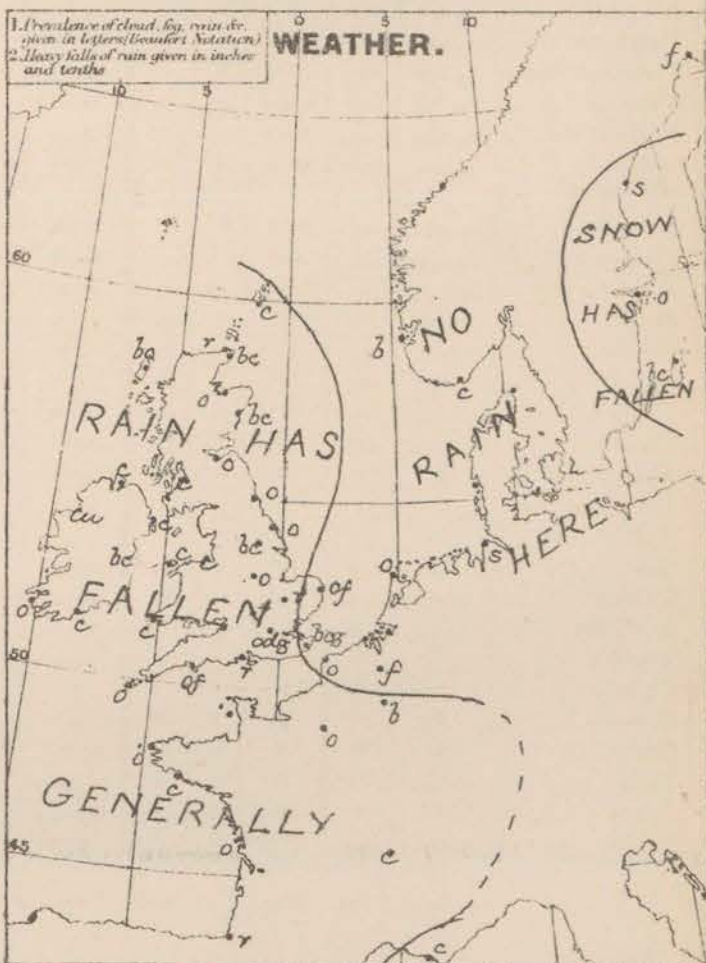
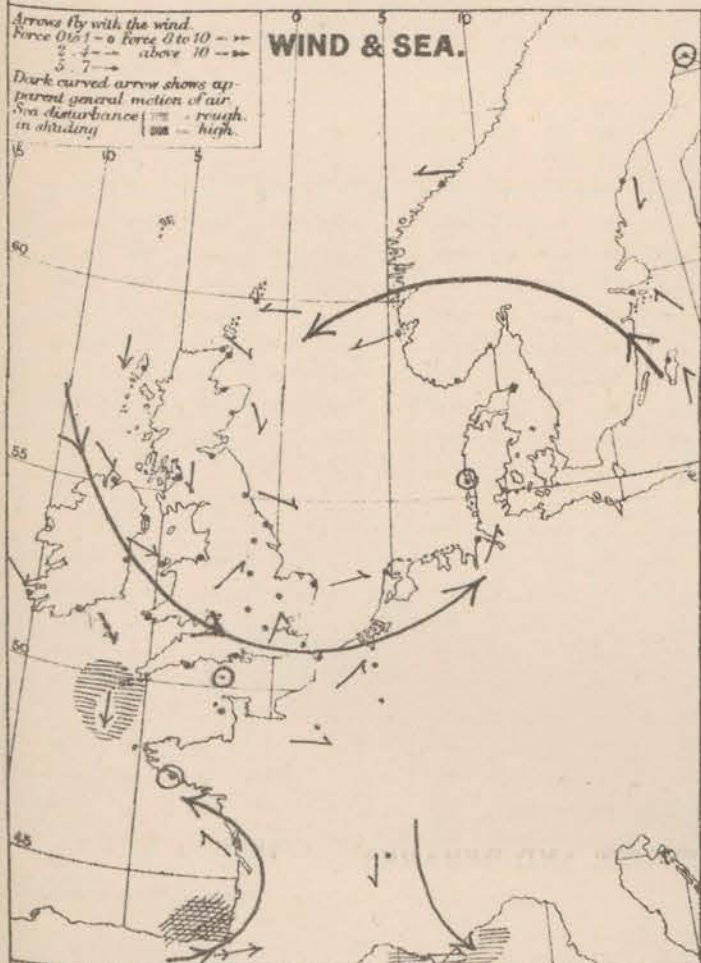
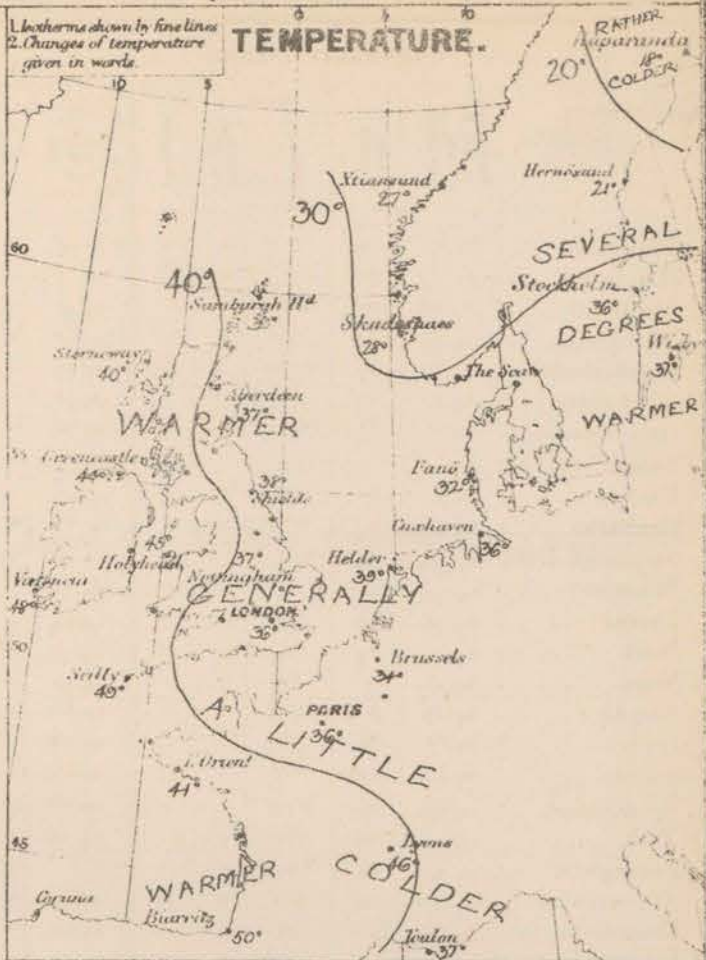
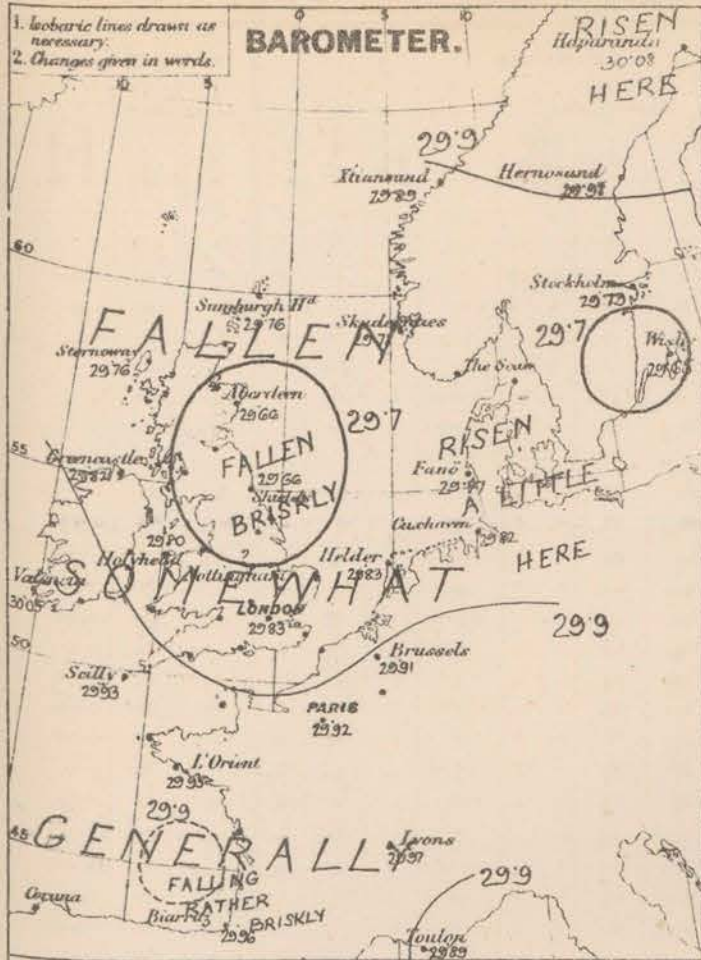
\* AN ASTERISK is inserted in all places for which information is not usually received.

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 1<sup>ST</sup> DEC<sup>R</sup> 1876.



**REMARKS.** Weather is fine in some parts of Scotland, and moderately so in Ireland, but overcast or very cloudy in all other parts of Western Europe; rain, fog and gloom are reported from our south eastern stations, and snow is falling at Hernösand and Auklavan. Rain fell yesterday in almost all parts of our Islands and at many of the Continental stations also. Temperature has fallen a little in the south west of England and also over the east of France, but rises in all other districts—several degrees over the Baltic; readings at present vary from  $34^{\circ}$  at Trich and Cambridge to  $40^{\circ}$  at Valentia and  $49^{\circ}$  at Sillery. During last night the thermometer fell to  $29^{\circ}$  at Trich and to  $32^{\circ}$  over the remainder of Scotland and Central England. Winds is N<sup>W</sup> to NW<sup>W</sup> on our western and northern coasts, but is SW<sup>W</sup> in the south east while in Norway and the Shetland E<sup>S</sup> breezes are blowing; it is generally light or moderate in force but blows rather fresh in the north west, and strongly at Sillery. At Biarritz a strong gale from NW<sup>W</sup> is reported. Sea is high at Biarritz, rough at Sillery and Toulon, slight or smooth elsewhere.

Barometrical Indications. The barometer has fallen in most places and a well-formed depression has advanced to our north east coast from the N<sup>W</sup>. In the rear of this disturbance - i.e. in the north of Holland the barometer is now recovering, but on our south coast it still falls decisively. A small subsidiary disturbance is shown over the Bay of Biscay.

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advance to cover delivery. Delivery by hand  
£1 per quarter, book post 5/- per quarter.

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

R. H. SCOTT.

Secretary



## DAILY WEATHER REPORT

DEC<sup>R</sup> 2<sup>ND</sup>

1878.

STATIONS.	† YESTERDAY EVENING.						8 A.M. TO DAY.										LAST 24 HOURS.		
	Barometer at 320 F. Sea Level.	Temp. in shade.	WIND.		Weather.	Barometer. Reading at 320 F. Sea Level.	Difference from 8 a.m. preceding day.	SHADE TEMP.			WIND.	Weather.	Sea (0 to 9).	SHADE TEMP.			Max.	Min.	Amount of Rainfall.
			Dir.	Force (0 to 12).				Dry.	Wet.	Difference from 8 a.m. preceding day.									
Haparanda ...	30.11	16	Z	0	0	30.08	00	26	26	+ 8	S	2	0	3	10	—			
Hernösand ...	30.09	27	N	2	5	30.15	+ 17	27	26	+ 6	N	2	0	*	*	0.08			
Stockholm ...	29.88	29	SE	2	6	29.97	+ 24	31	31	— 5	NNW	2	0	*	*	0.08			
Wisby ...	29.81	37	S	1	0	29.86	+ 21	39	38	+ 2	E	2	0	*	*	—			
Christiansund ...	29.94	31	ENE	1	0	30.01	+ 12	26	25	— 1	ESE	1	6	2	19	—			
Skudesnaes ...	29.86	28	Z	0	6	29.95	+ 17	33	32	+ 5	NNE	2	0	2	34	28	—		
Oxö (Åriansand) ...	29.84	33	NNW	2	0	29.91	+ 16	34	32	+ 3	NNE	6	5	3	34	28	—		
Skagen (The Seaw) ...	29.79	33	ENE	2	0	29.94	—	34	33	—	SE	2	0	2	36	27	0.08		
Fanö ...	29.83	34	ENE	2	0	29.91	+ 14	34	33	+ 2	E	2	0	*	36	32	—		
Önshaven ...	29.85	38	SH	1	6	29.91	+ 09	34	34	— 2	SSW	1	0	*	41	30	—		
Sumburgh Head ...	29.98	38	N	2	6	30.06	+ 30	36	34	— 3	NNW	1	0	1	40	34	—		
Stornoway ...	29.97	43	ENE	2	6	30.11	+ 35	34	33	— 6	Z	0	6	0	44	32	—		
Thurso ...	29.98	39	N	1	0	30.12	+ 43	41	40	— 1	NNW	2	0	3	43	34	0.06		
Wick ...	29.97	40	E	2	0	30.10	+ 37	35	34	+ 1	NW	1	0	0	40	32	0.01		
Nairn ...	29.92	43	Z	0	1	30.12	+ 41	35	33	— 1	WSW	1	0	1	42	34	0.11		
Aberdeen ...	29.89	42	N	3	1	30.09	+ 43	38	36	+ 1	NNW	3	0	2	43	37	0.05		
Leith ...	29.85	42	NE	4	6	30.10	+ 44	37	36	— 1	N	1	0	*	43	35	0.02		
Shields ...	29.87	44	ENE	3	0	30.08	+ 42	37	35	— 1	NNW	2	0	3	44	36	0.11		
Scarborough ...	29.75	43	NE	2	0	30.02	+ 39	42	38	+ 4	NNE	2	0	2	44	38	0.09		
York ...	29.80	40	N	1	0	30.05	+ 39	38	37	— 2	N	1	0	*	43	32	0.03		
Nottingham ...	29.74	38	Z	0	1	30.05	?	37	37	0	NNW	1	0	*	41	33	0.07		
Ardrossan ...	29.88	40	NE	1	6	30.12	+ 43	35	34	— 7	ENE	1	6	0	47	35	—		
Greencastle ...	29.89	46	N	3	0	30.12	+ 30	34	33	— 10	NNW	1	6	*	47	33	0.04		
Donaghadee ...	29.89	45	NNE	6	6	30.13	+ 35	40	39	— 1	N	2	6	1	46	39	0.02		
Kingstown ...	29.88	43	NW	5	6	30.11	+ 24	40	38	— 1	NNW	4	0	3	45	38	0.01		
Holyhead ...	29.80	44	NNE	6	6	30.09	+ 29	42	40	— 3	NE	3	6	2	47	41	0.24		
Liverpool (Midson) ...	29.77	41	NNW	2	0	30.08	+ 36	36	35	— 6	N	1	0	1	43	36	0.13		
Valencia ...	30.05	49	N	3	0	30.17	+ 12	42	41	— 6	N	1	0	2	50	40	0.04		
Roche's Point ...	29.97	45	NNW	5	0	30.15	+ 17	42	39	— 3	N	2	6	3	49	39	0.09		
Pembroke ...	29.80	44	N	4	6	30.07	+ 19	38	37	— 7	NE	1	6	1	47	37	0.08		
Portlshend ...																			
Scilly ...	29.80	48	N	8	0	30.03	+ 10	47	45	— 2	NE	6	0	6	50	45	0.09		
Plymouth ...	29.74	39	NW	2	0	30.02	+ 14	38	36	0	NNE	2	6	*	41	37	0.09		
Hurst Castle ...	29.64	40	NNW	1	0	29.97	+ 13	38	37	— 1	NE	4	6	3	45	36	0.93		
Dover ...	29.65	39	SH	2	0	29.93	+ 09	40	38	— 1	NNE	3	6	2	42	37	0.56		
London ...	29.65	40	SH	1	gmd	29.98	+ 15	38	36	+ 2	NNE	2	off	*	40	36	0.04		
Oxford ...	29.69	39	S	1	1	30.00	+ 18	36	35	0	S	1	0	*	42	34	0.07		
Cambridge ...	29.68	37	SH	1	0	30.00	+ 20	34	34	0	NW	1	0	*	39	31	0.02		
Yarmouth ...	29.69	40	SE	4	0	29.96	+ 15	39	39	+ 4	N	3	od	3	42	34	0.08		
The Helder ...	*	*	*	*	*	29.90	+ 07	35	34	— 4	SSE	1	0	*	*	*	0.08		
Cape Gris Nez ...	29.65	37	SSW	2	1	29.90	+ 07	34	32	— 2	ENE	2	0	1	41	32	0.39		
Jersey ...																			
Brest ...	29.83	48	NNW	5	0	29.97	+ 02	41	37	— 4	NE	3	6	3	50	39	0.16		
L'Orient ...	29.80	46	NW	4	0	29.91	— 04	43	?	+ 2	NNW	3	m	3	50	37	0.04		
Rocheport ...	29.82	48	NW	3	6	29.78	— 14	43	41	— 2	NNW	6	0	4	57	37	0.24		
Biarritz ...	29.93	52	N	7	1	29.80	— 16	50	45	0	NW	6	6	7	55	41	0.71		
Corunna ...	*	*	*	*	*									*	*	*			
Brussels ...	*	*	*	*	*	29.91	00	32	32	— 2	ESE	1	6	*	36	32	0.04		
Charleville ...	*	*	*	*	*	29.83	— 06	29	*	— 2	E	1	6	*	*	*	*		
Paris ...	29.73	39	?	2	2	29.89	— 03	33	31	— 3	S	3	0	*	*	*	0.16		
Lyons ...	*	*	*	*	*	?	?	45	*	— 1	NE	2	1	*	*	*	*		
Toulon ...	29.82	32	NW	5	6	29.67	— 22	37	36	0	NE	5	1	5	46	?	0.08		
YESTERDAY'S 2 P.M. REPORTS AND REMARKS.																			
	Bar.	Dry.	Wet.	Wind.	Wes.	Sea.					Bar.	Dry.	Wet.	Wind.	Wes.	Sea.			
Skudesnaes ...	29.82	83	29	ENE	2	2					Valencia ...								
Thurso ...											Scilly ...								
Scarborough ...											London ...								
Greencastle ...											* Rocheport ...	29.82	48	46	SE	2	0		
Holyhead ...																			
Mullaghmore ...	29.98	46	N	5	0	30.14	+ 24	43	42	— 4	N	3	6	2	47	42	0.02		

## 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 "rear" when its direction changes with the sea, and to "back" when it shifts in the opposite direction.



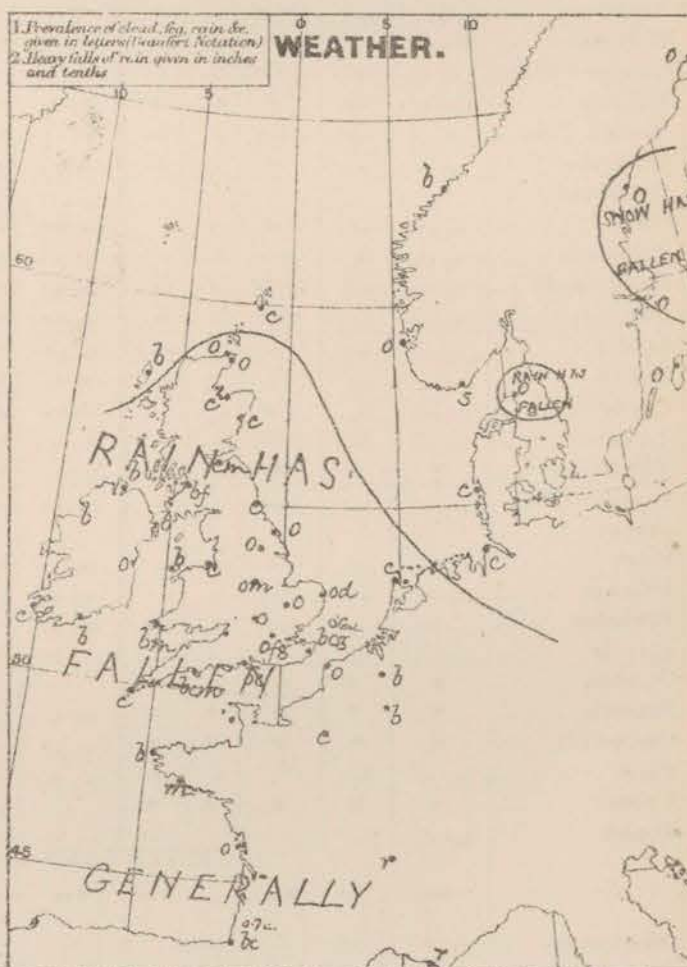
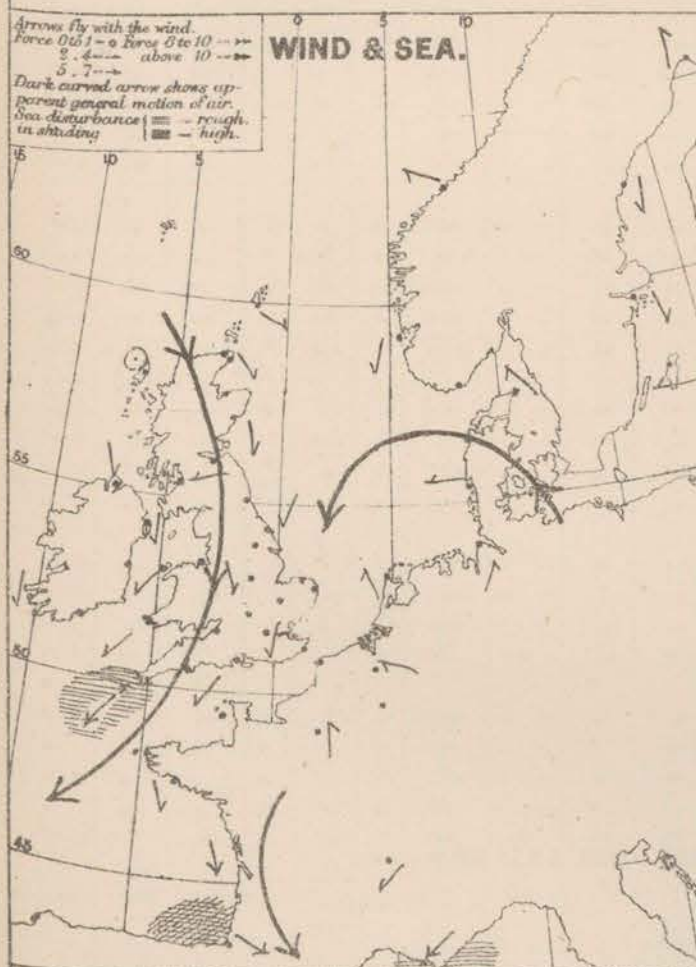
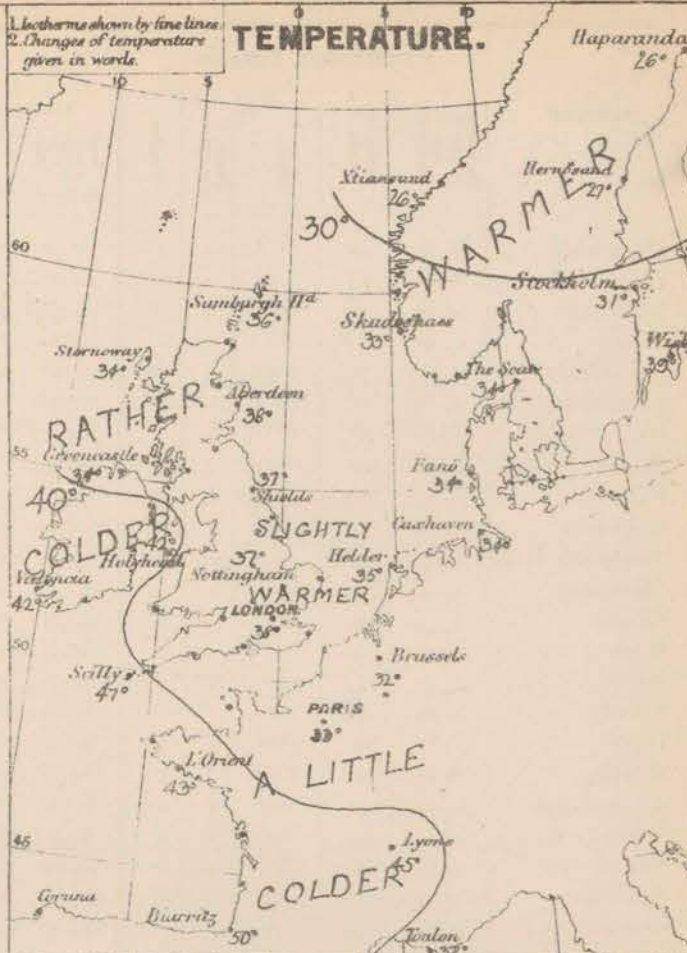
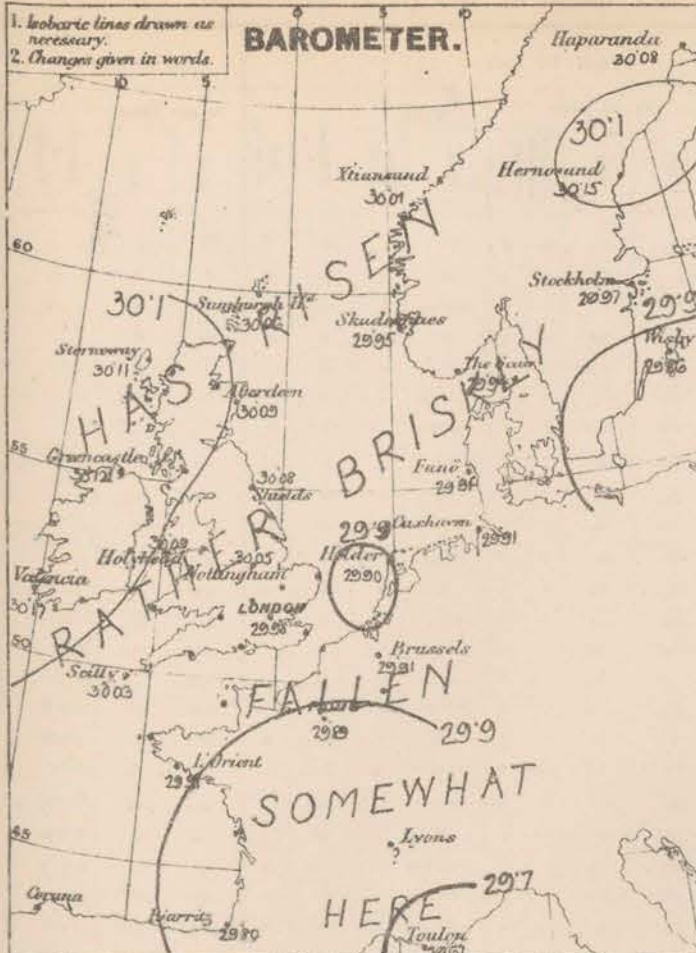
## WEATHER CHARTS

for 8 a.m. on

Monday

$$D_{EC}^R$$

1873.



**REMARKS.** Weather this morning is very fine in the south west, west and north west of our Islands and in the north east of France, dull but dry elsewhere, and foggy in several places. Rain fell yesterday in all parts of the country, and in the Straits of Dover the quantity amounted to half an inch. At Biarritz a fall of 0.7 in. took place. Temperature has decreased in the west and is rather low generally - especially in the west of Scotland and north of Ireland, where the thermometer stands at 34°. Wind is very light from NW in Scotland light from NE over England (but fresh at the mouth of the Channel), strong from NW in the south of France. On the various shores of the North Sea it is very variable. Sea is high at Biarritz, rough at Billy, generally slight or smooth elsewhere.

Barometrical Indications. The depression which passed over our Islands during yesterday is now piling up off the Dutch coast, while that in the south west of France has grown somewhat deeper. The barometer has risen decidedly on all our coasts, and is highest in the west and north.

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

R. H. SCOTT.

Secretary



# DAILY WEATHER REPORT

DEC 3<sup>rd</sup>

1878.

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	30.05	9	Z	0	6	30.12	+ .04	11	10	- 15	Z	0	6	*	27	5	-		
Hernösand	30.25	28	Z	0	0	30.31	+ .16	15	15	- 12	Z	0	6	*	*	*	-		
Stockholm	30.06	35	NNW	4	0	30.20	+ .23	36	35	+ 5	NNE	4	0	*	*	*	-		
Wisby	29.91	43	NE	4	0	30.00	+ .14	41	40	+ 2	E	4	0	*	*	*	-		
Christiansund	30.17	26	ESE	1	6	30.28	+ .27	32	32	+ 6	S	3	6	3	32	19	-		
Skudesnaes	30.17	35	Z	0	6	30.27	+ .32	35	33	+ 2	ENE	2	0	2	39	34	-		
Oxö (Xtiansand)	30.16	34	N	4	0	30.25	+ .37	36	34	+ 2	N	4	0	2	?	32	-		
Skagen (The Seaw)	30.15	35	E	3	0	30.23	+ .29	39	36	+ 5	NNE	4	0	4	?	30	-		
Fanö	30.12	30	N	1	0	30.21	+ .30	29	28	- 5	N	2	60	*	34	28	-		
Cuxhaven	30.04	37	SSE	1	0	30.13	+ .22	37	36	+ 3	NE	3	0	*	?	32	-		
Sumburgh Head	30.15	35	N	1	0	30.26	+ .20	39	37	+ 3	NE	1	0	1	40	34	-		
Stornoway	30.16	40	W	2	0	30.24	+ .18	40	40	+ 6	Z	0	0	0	40	34	-		
Thurso	30.19	40	Z	0	7	30.29	+ .17	35	35	- 6	Z	0	0	2	43	32	0.05		
Wick	30.17	39	NT	1	0	30.27	+ .17	33	32	- 2	WSTN	1	0	0	39	31	0.02		
Nairn	30.19	37	Z	0	0	30.28	+ .16	35	34	0	Z	0	0	1	39	34	0.02		
Aberdeen	30.15	39	NNW	3	0	30.29	+ .20	36	35	- 2	NNW	1	0	2	40	36	0.07		
Leith	30.15	39	NT	1	0	30.25	+ .15	39	38	+ 2	NE	2	0	2	41	36	0.04		
Shields	30.10	39	N	3	0	30.22	+ .14	42	40	+ 5	ENE	3	0	3	42	36	0.22		
Scarborough	30.05	42	NNE	3	0	30.17	+ .15	42	40	0	E	3	60	3	44	40	0.13		
York	30.08	37	N	3	6	30.19	+ .14	34	33	- 4	N	1	60	*	41	32	0.07		
Nottingham	30.09	38	N	2	0	30.17	+ .12	34	34	- 3	N	3	6	2	41	34	0.01		
Ardrossan	30.17	35	Z	0	60	30.26	+ .14	35	33	0	NNE	2	6	1	41	33	-		
Greencastle	30.17	41	N	2	60	30.25	+ .13	32	31	- 2	NE	1	60	*	43	30	-		
Donaghadee	30.21	43	N	2	0	30.27	+ .14	42	40	+ 2	ENE	5	6	3	44	39	-		
Kingstown	30.19	40	NNW	3	0	30.22	+ .11	39	37	- 1	?	3	0	3	41	37	-		
Holyhead	30.15	43	NNE	2	0	30.17	+ .08	42	40	0	NNE	3	0	2	45	41	0.01		
Liverpool (Bidston)	30.02	38	N	1	0	30.20	+ .12	36	35	0	NNE	1	0	1	40	35	-		
Valencia	30.23	41	N	1	6	30.25	+ .08	40	38	- 2	NNE	2	0	2	57	31	-		
Roche's Point	30.20	41	NNE	2	60	30.22	+ .07	36	34	- 6	NNE	2	6	3	45	35	-		
Pembroke	30.15	40	N	1	6	30.15	+ .08	37	35	- 1	NE	1	6	1	44	35	-		
Portishead																			
Seilly	30.13	47	NNE	5	0	30.13	+ .10	45	42	- 2	NE	5	0	4	48	43	0.01		
Plymouth	30.12	37	N	2	6	30.12	+ .10	32	31	- 6	N	2	6	*	45	31	-		
Hurst Castle	30.05	41	NNE	3	60	30.06	+ .09	37	36	- 1	NNE	2	60	2	44	32	-		
Dover	29.97	41	N	3	60	30.06	+ .13	39	37	- 1	E	4	60	2	41	37	0.09		
London	30.05	40	NNE	1	0	30.08	+ .10	36	35	- 2	E	2	60	*	41	35	-		
Oxford	30.08	36	N	1	6	30.11	+ .11	36	35	- 1	Z	0	0	*	39	34	-		
Cambridge	30.02	38	NT	1	0	30.12	+ .12	38	38	+ 4	N	1	0	*	40	31	0.02		
Yarmouth	29.96	40	NNE	4	0	30.11	+ .15	39	38	0	E	4	60	3	41	37	0.11		
The Helder	*	*	*	*	*	30.12	+ .22	35	34	0	NE	1	0	*	*	*	0.12		
Cape Gris Nez	29.96	41	N	4	0	30.05	+ .12	32	32	- 2	E	2	60	1	42	32	0.12		
Jersey																			
Brest	30.10	46	NE	3	0	30.11	+ .14	39	36	- 2	NNE	2	6	3	?	37	0.04		
L'Orient	30.05	43	NE	3	0	30.06	+ .15	41	?	- 2	N	3	60	3	46	36	-		
Rocheport	29.99	46	NNE	3	60	30.00	+ .22	37	32	- 6	NNE	3	60	3	32	37	-		
Biarritz	29.96	32	NNW	3	9	30.03	+ .23	48	?	- 2	E	1	60	4	32	34	-		
Corunna	*	*	*	*	*										*	*	*		
Brussels	*	*	*	*	*	30.05	+ .14	31	30	- 2	ENE	2	5	*	36	29	-		
Charleville	*	*	*	*	*	29.94	+ .11	30	*	+ 1	NE	3	0	*	*	*	*		
Paris	29.97	35	?	2	6	29.99	+ .10	35	33	+ 2	E	2	0	*	*	*	-		
Lyons	*	*	*	*	*	29.93	?	41	*	- 4	N	2	60	*	*	*	*		
Toulon	29.63	41	NE	3	6	29.71	+ .04	32	30	- 5	NN	6	0	6	41	32	0.71		
YESTERDAY'S 2 <sup>nd</sup> REPORTS AND REMARKS.																			
	Bar.	Dry.	Wet.	Wind.	Wes.	Sea.		Bar.	Dry.	Wet.	Wind.	Wes.	Sea.						
Skudesnaes	30.10	39	34	ESE	2	6	2	Valencia	30.20	50	47	N	1	60	2				
Thurso	30.16	43	42	NT	1	7	3	Seilly	30.10	47	44	ENE	2	60	5				
Scarborough	30.02	44	40	NNE	2	0	2	London	30.02	40	39	N	2	09m	*				
Mullaghmore	30.20	44	43	NNN	1	0	1	Rocheport	29.90	43	39	NNE	5	0	3				
Holyhead	30.14	44	40	NNE	2	0	2												
No important change.																			
Mullaghmore	30.21	41	E	1	6	30.25	+ .11	39	38	- 4	E	3	0	2	45	38	-		

No important change.

## 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; v. visibility; u. 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. (Christmas time) in Sweden, Norway, and Denmark, and at 7 p.m. (Paris time) in France.

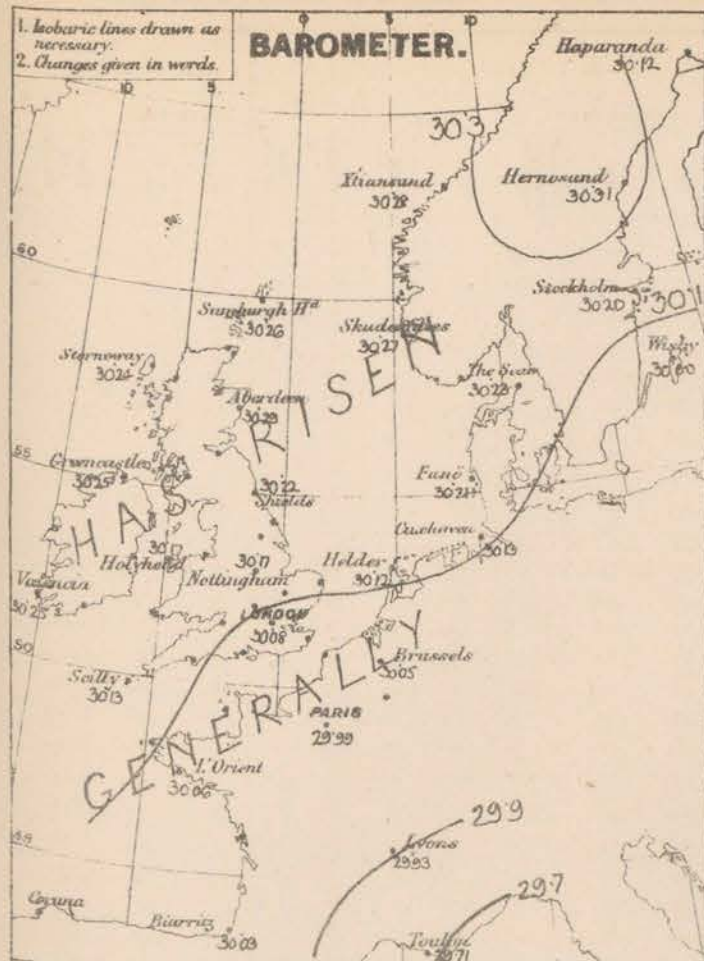
N.B.—The wind is said to "veer" when its direction changes with the sun, and to "back" when it shifts in the opposite direction.



# WEATHER CHARTS for 8 a.m. on Tuesday 3<sup>rd</sup> DEC<sup>r</sup> 1878.

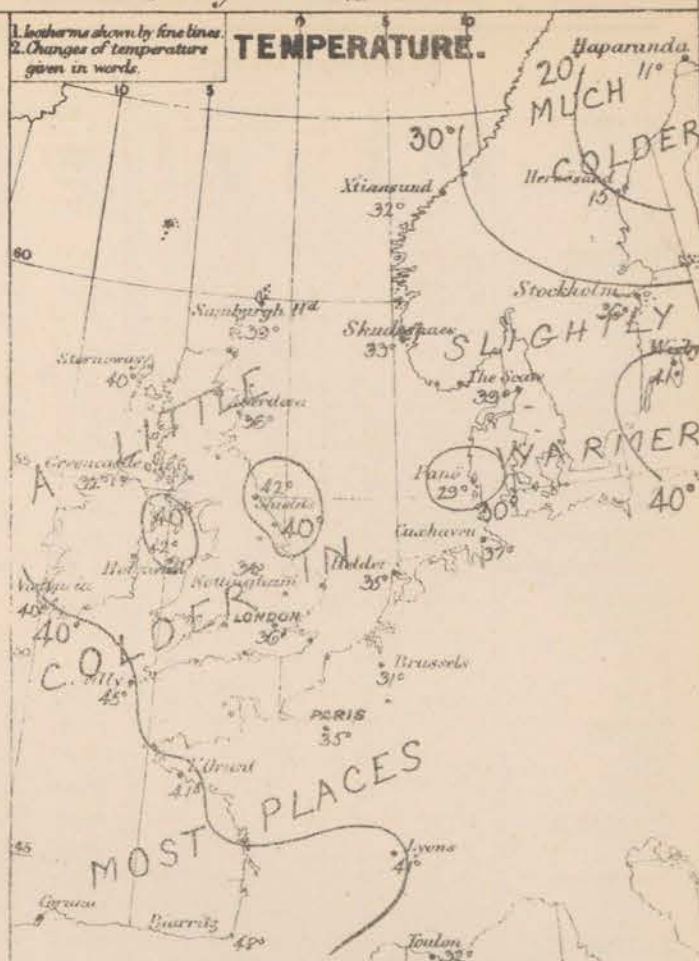
1. Isobaric lines drawn as necessary.
2. Changes given in words.

## BAROMETER.



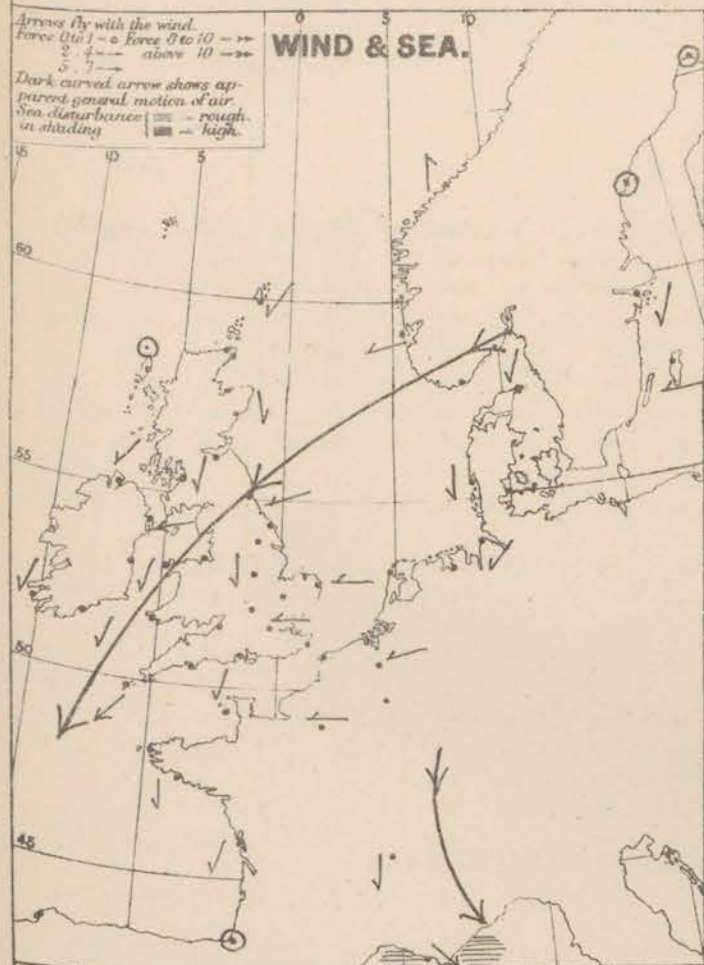
1. Isotherms shown by fine lines.
2. Changes of temperature given in words.

## TEMPERATURE.



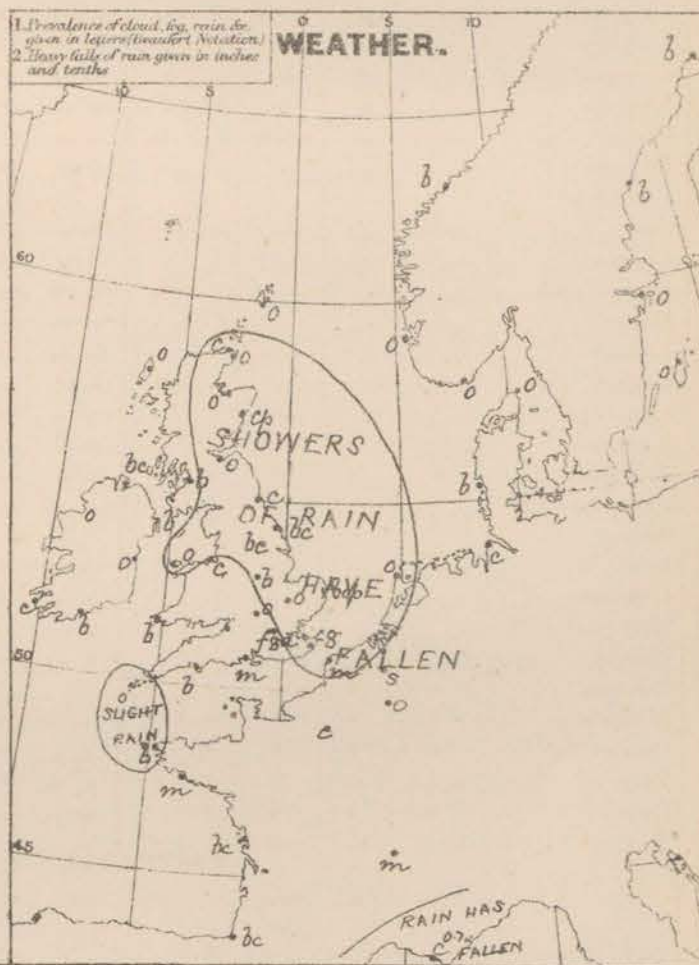
1. Force 0 to 10 - - - - -
  2. Force 10 to 20 - - - - -
  3. Force 20 to 30 - - - - -
  4. Force 30 to 40 - - - - -
  5. Force 40 to 50 - - - - -
  6. Force 50 to 60 - - - - -
  7. Force 60 to 70 - - - - -
  8. Force 70 to 80 - - - - -
  9. Force 80 to 90 - - - - -
  10. Force 90 to 100 - - - - -
-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

## WIND & SEA.



1. Presence of cloud, fog, rain, etc. given in letters and notation.
2. Heavy falls of rain given in inches and tenths.

## WEATHER.



**REMARKS.** Weather this morning is fine in the west and south west and also over some of our northern counties and the north of Scandinavia; overcast elsewhere, with showers at Aberdeen and Lymington; cold drizzle (mingled with small particles of ice) in London. Rain fell at our north eastern and eastern stations yesterday, but the amounts reported were small. Temperature is falling almost everywhere it is as low as 32° in several parts of the kingdom, but at some places in the west it varies from 40° to 43°. A maximum of 50° was recorded at only one of our stations yesterday - viz. at Valentia. Wind is E<sup>4</sup> to NE<sup>4</sup> over England, Ireland and the Channel, and is light to moderate generally. In the Bay of Biscay and also on the Danish coast it is N<sup>4</sup>, while in Scotland almost fair. Sea is very smooth in the north, slight elsewhere.

**Barometrical Indications.** A further rise of the barometer is reported from all parts of Western Europe, the change varying in amount from 0.07 in. at Oslo and 0.2 in. in the south west of France to 0.1 in. on our south-west coasts and over the east of France. Readings vary from 30.3 in. in the north of Scandinavia and 30.25 in. over Ireland to 29.7 in. at Toulon.

Subscription for these Charts payable in advance to cover delivery. Delivery by hand 1/4 per quarter, book post 3/- per quarter.

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

R. H. SCOTT.  
Secretary



# DAILY WEATHER REPORT

DEC<sup>R</sup> 4<sup>TH</sup>

1878.

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 2.)	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 ...	30.17	19	Z	0	bc	30.10	-.02	15	15	+ 4	Z	0	b	*	19	9	-	
Hernösand ...	30.39	10	Z	0	b	30.32	+ .01	10	10	- 5	Z	0	b	*	*	*	-	
Stockholm ...	30.29	35	?	4	o	30.23	+ .03	35	35	- 1	NNE	4	o	*	*	*	-	
Wisby ...	30.09	40	E	4	o	30.07	+ .07	39	38	- 2	E	4	o	*	*	*	-	
Christiansund ...	30.30	31	S	3	b	30.13	- .15	32	31	0	S	3	b	4	34	25	-	
Skudesnaes ...	30.32	32	Z	0	b	30.21	- .06	35	33	0	NNW	1	o	2	36	32	-	
Oxö (Xtiansand) ...	30.28	40	NNE	4	o	30.23	- .05	37	35	+ 1	NNE	4	o	3	41	36	-	
Skagen (The Sea) ...	30.25	39	ENE	3	o	30.17	- .06	37	36	- 2	ENE	4	o	5	39	34	0.04	
Fanö ...	30.13	36	NE	4	o	30.08	- .13	36	35	+ 7	NE	4	o	*	36	28	0.20	
Cuxhaven ...	30.12	38	NNE	5	+	29.99	- .14	41	41	+ 4	NE	4	+	*	?	36	0.41	
Sumburgh Head ...	30.28	40	SW	2	o	30.14	- .12	43	43	+ 4	SW	4	mv	4	43	37	0.01	
Stornoway ...	30.23	41	S	1	bc	30.17	- .07	44	44	+ 4	S	4	c	3	44	40	0.01	
Thurso ...	30.31	33	S	6	b	30.21	- .08	37	36	+ 2	W	1	o	2	40	29	0.01	
Wick ...	30.30	34	W	1	b	30.21	- .06	38	37	+ 5	Z	0	o	0	42	31	-	
Nairn ...	30.32	30	Z	0	b	30.24	- .04	38	35	+ 3	W	3	bc	1	38	30	-	
Aberdeen ...	30.32	36	Z	0	mv	30.28	- .01	28	28	- 8	WSW	1	b	1	37	28	-	
Leith ...	30.32	35	NNW	1	b	30.31	+ .06	27	27	- 12	W	2	bc	*	43	26	0.02	
Shields ...	30.32	40	N	1	bc	30.34	+ .12	34	32	- 8	NNW	2	b	2	45	33	0.01	
Scarborough ...	30.28	39	WSW	2	bc	30.29	+ .12	42	40	0	NNE	2	o	3	43	39	0.03	
York ...	30.29	35	ESE	1	b	30.32	+ .13	36	34	+ 2	N	1	o	*	44	28	-	
Nottingham ...	30.30	33	N	3	b	30.32	+ .15	37	36	+ 3	NNW	3	o	*	37	30	0.03	
Ardrossan ...	30.32	35	ENE	2	b	30.35	+ .09	29	28	- 6	NE	1	bc	0	40	28	-	
Greencastle ...	30.30	34	N	1	b	30.33	+ .08	32	31	0	ENE	1	o	*	45	27	-	
Donaghadee ...	30.35	41	ESE	3	bc	30.40	+ .13	31	31	- 11	WSW	3	b	2	43	30	-	
Kingstown ...	30.29	42	E	3	o	30.39	+ .17	33	32	- 6	SW	1	c	2	43	32	0.07	
Holyhead ...	30.27	39	E	2	b	30.37	+ .20	34	33	- 8	SSW	1	o	0	44	33	-	
Liverpool (Hedston) ...	30.30	36	E	1	b	30.36	+ .16	35	34	- 1	W	1	bc	1	39	32	-	
Valencia ...	30.28	41	NE	1	o	30.41	+ .16	32	32	- 8	ENE	1	b	1	46	29	-	
Roche's Point ...	30.28	38	NNE	3	b	30.41	+ .19	34	32	- 2	NNW	2	b	3	43	32	-	
Pembroke ...	30.23	37	NE	2	b	30.26	+ .21	33	31	- 4	NNE	2	b	1	42	32	-	
Portishead ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	
Scilly ...	30.16	42	ENE	5	+	30.33	+ .20	43	40	- 2	ENE	4	bc	3	46	40	0.05	
Plymouth ...	30.18	37	NE	3	bc	30.32	+ .20	34	33	+ 2	N	1	b	*	41	31	-	
Hurst Castle ...	30.15	39	NE	3	b	30.25	+ .19	36	35	- 1	N	3	b	3	40	34	-	
Dover ...	30.13	42	E	5	c	30.13	+ .07	39	38	0	N	4	c	3	43	37	0.06	
London ...	30.21	40	ENE	2	o	30.24	+ .16	36	34	0	N	2	bc	*	40	35	0.02	
Oxford ...	30.21	35	ESE	1	bc	30.30	+ .19	32	32	- 3	ENE	1	b	*	40	32	-	
Cambridge ...	30.24	35	N	1	c	30.26	+ .14	34	33	- 4	NNW	1	c	*	41	31	0.02	
Yarmouth ...	30.20	41	ENE	4	c	30.17	+ .06	43	42	+ 4	N	3	og	4	43	38	-	
The Helder ...	*	*	*	*	*	30.05	- .07	42	41	+ 7	N	2	o	*	*	*	0.04	
Cape Gris Nez ...	30.12	36	E	2	bc	30.12	+ .07	43	41	+ 11	NNE	6	o	5	?	36	0.12	
Jersey ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	
Brest ...	30.14	46	ENE	3	+	30.28	+ .17	34	32	- 5	NE	2	o	3	46	36	0.12	
L'Orient ...	30.08	37	NE	3	b	30.25	+ .19	32	?	- 9	NE	3	b	3	45	36	-	
Rocheport ...	30.09	45	NE	2	c	30.15	+ .15	36	34	- 1	NNE	4	mv	3	50	32	-	
Biarritz ...	29.99	48	SE	3	+	30.09	+ .06	36	34	- 12	E	2	o	3	?	?	0.04	
Corunna ...	*	*	*	*	*	...	...	*	...	...	...	...	...	*	*	*	*	
Brussels ...	*	*	*	*	*	30.05	00	34	33	+ 3	NNW	1	+	*	35	33	-	
Charleville ...	*	*	*	*	*	30.01	+ .07	33	*	+ 3	NNW	3	o	*	*	*	*	
Paris ...	30.08	35	?	2	o	30.12	+ .13	36	34	+ 1	E	3	c	*	*	*	-	
Lyons ...	*	*	*	*	*	29.97	+ .04	39	*	- 2	N	4	o	*	*	*	*	
Toulon ...	29.70	37	NNW	5	c	29.80	+ .09	32	30	0	NNW	5	b	5	43	30	-	

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

	Bar.	Dry.	Wet.	Wind.	Wes.	Sea.		Bar.	Dry.	Wet.	Wind.	Wes.	Sea.		
Skudesnaes ...	30.31	33	32	Z	0	b	2	Valencia .....	30.25	45	40	NE	2	c	3
Thurso .....	30.31	38	38	Z	0	mv	1	Scilly .....	30.14	45	44	ENE	4	cp	4
Scarborough ...	30.26	42	38	E	2	bc	3	London .....	30.16	40	38	ENE	2	c	*
Mullaghmore ..	30.29	42	40	ENE	2	b	2	Rocheport ...	30.03	43	41	NE	3	bc	3
Holyhead .....	30.23	42	40	E	3	b	3								

The barometer continues to rise in the E., but in the SW. it shows some slight tendency to fall. E. winds are general, with cloudy weather, and showers at Scilly.

Mullaghmore	30.31	38	ESE	2	b	30.36	+ .11	35	34	- 4	SW	1	c	1	43	31	-
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## 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.

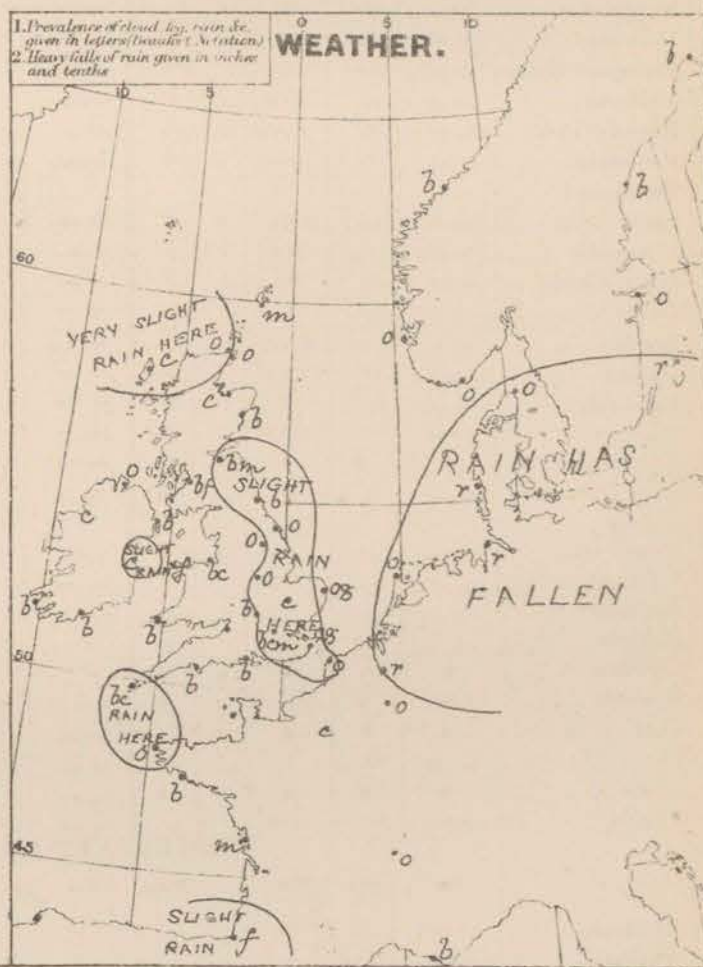
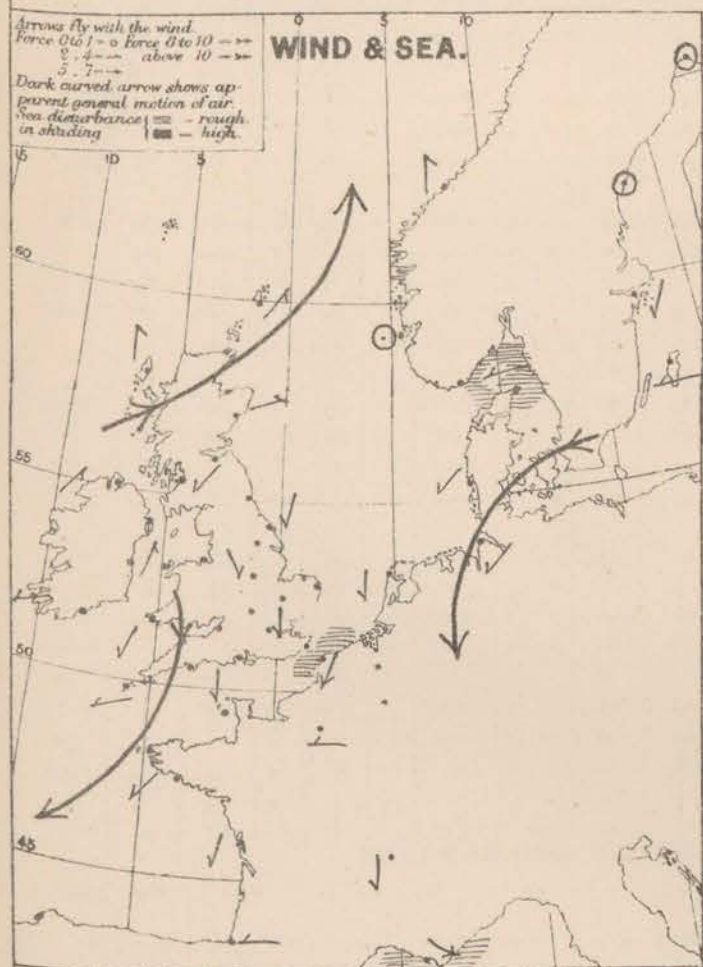
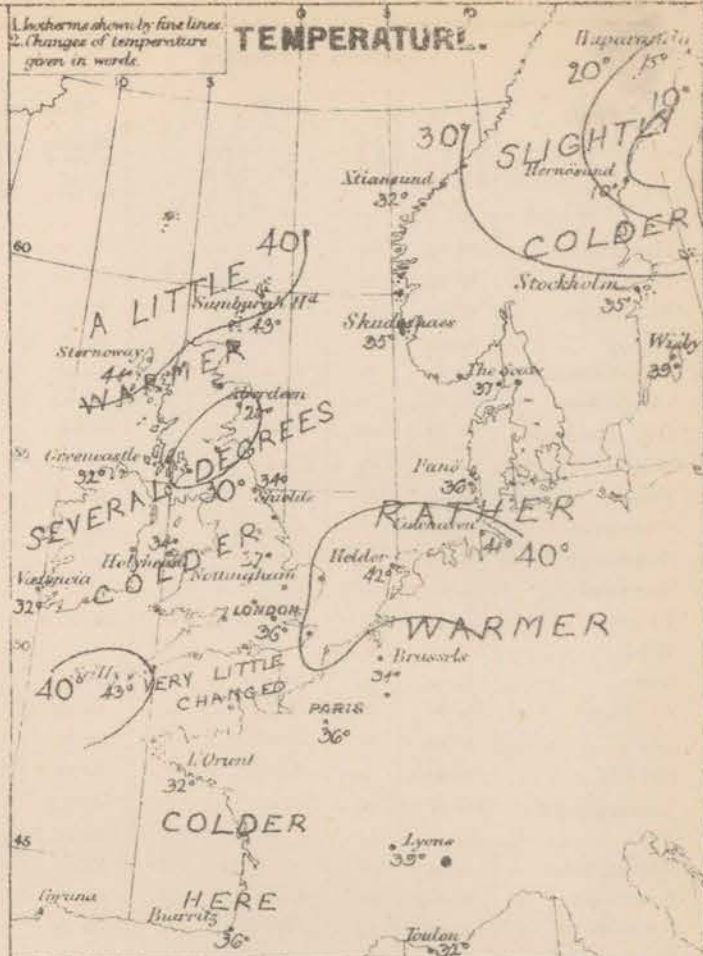
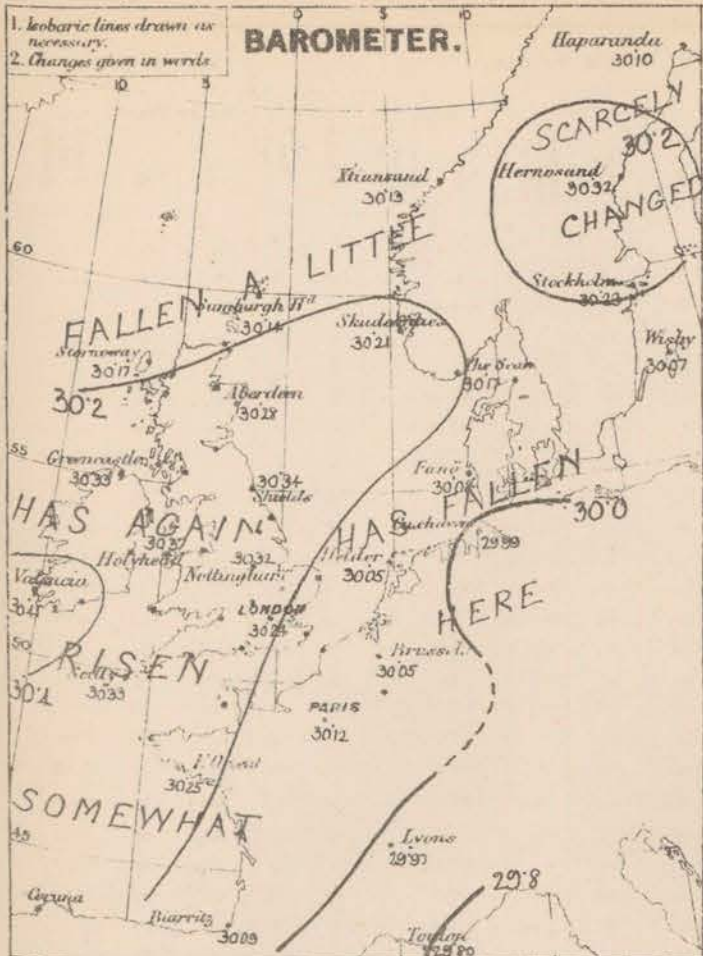
\* AN ASTERISK is inserted in all places for which information is not usually received.

† 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 Wednesday 4<sup>th</sup> Dec<sup>r</sup> 1873.



**REMARKS.** Weather this morning is very fine over the United Kingdom and northern parts of Scandinavia but overcast at our extreme south-eastern stations and on the eastern shores of the North Sea, raining at Harwich and in North Germany. Rain has fallen over Denmark and North Germany since yesterday, and slight showers on all but our western coasts. Temperature has fallen several degrees at the western stations and also in the north of England and east of Scotland and in the latter district frost prevails. In the north of Scotland, however, and at the south-eastern stations the thermometer has risen. Leith (27°) is 16° colder than either Yarmouth or Killybegs. Wind is light from between S. and W. in Scotland, the north of Ireland and west of Norway, light to moderate from N. and NE. in France and the southern parts of our islands, moderate NE. in Holstein, N. on our south-east coasts and light NW. at Brussels. Sea is rather rough at the Low, Cape Gris Nez and Toulon, slight or smooth elsewhere.

**Barometrical Indications.** Since yesterday the barometer has risen over the greater part of our islands and France, fallen in North Germany and the north of Scotland. Readings now vary from 30.4 in. over the south of Ireland and 30.3 in. in Sweden to 30.1 in. off the north of Scotland and to 29.9 in. at Copenhagen. In both these latter regions the mercury is falling.

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

Metereological Office. R. B. SCOTT. Secretary.  
116, Victoria Street, Westminster, S.W.



# DAILY WEATHER REPORT

DEC 5<sup>TH</sup>

1878.

STATIONS.	† YESTERDAY EVENING.					8 A.M. TO DAY.										LAST 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 3 P.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 ...	29.88	29	S	2	bc	29.74	-.14	28	28	+ 13	Z	0	0	*	30	14	-	
Hernösand ...	30.03	22	N	2	0	29.78	-.24	27	27	+ 17	Z	0	0	*	*	*	-	
Stockholm ...	30.03	31	Z	0	0	29.78	-.45	32	32	- 3	Z	0	f	*	*	*	-	
Visby ...	29.99	37	E	2	0	29.79	-.28	36	35	- 3	E	4	0	*	*	*	-	
Christiansund ...	29.90	38	SW	5	+	29.74	-.39	33	32	+ 1	NNW	6	5	5	29	27	0.24	
Skudeanaes ...	30.08	32	Z	0	0	29.80	-.41	35	35	0	Z	0	f	2	36	32	0.28	
Oxö (Ålmsund) ...	30.09	32	NNW	2	c	29.80	-.43	28	27	- 9	NNW	4	e	2	37	25	-	
Skagen (The Sea) ...	30.02	38	NE	2	0	29.80	-.37	37	35	0	NE	3	0	1	37	32	0.04	
Fanö ...	29.97	36	N	4	0	29.83	-.25	36	35	0	NW	2	+	*	36	36	-	
Cuxhaven ...	29.98	41	NNE	3	+	29.84	-.15	39	39	- 2	NNE	3	0	*	?	37	0.08	
Sumburgh Head ...	30.10	42	NNW	2	c	30.04	-.10	34	33	- 9	N	3	bc	3	46	31	0.25	
Stornoway ...	30.19	41	NNW	2	bc	30.20	+ .03	36	34	- 8	NN	3	bc	3	46	35	0.12	
Thurso ...	30.15	43	NNW	2	+	30.14	-.07	39	38	+ 2	NNW	5	0	4	44	36	0.32	
Wick ...	30.13	41	NNW	1	+	30.11	-.10	36	34	- 2	NN	4	0	1	42	33	0.20	
Nairn ...	30.16	40	Z	0	+	30.14	-.10	39	37	+ 1	NN	3	0	2	42	37	0.07	
Aberdeen ...	30.16	35	Z	0	mv	30.06	-.22	39	37	+ 11	N	4	p	2	40	28	0.02	
Leith ...	30.18	38	N	1	bc	30.09	-.22	37	36	+ 10	N	1	bc mv	*	40	26	0.04	
Shields ...	30.23	35	NNW	2	b	30.09	-.25	39	38	+ 5	NNW	2	0	2	39	32	0.08	
Scarborough ...	30.23	36	NNW	2	b	30.03	-.26	41	40	- 1	NNW	2	0	2	43	35	-	
York ...	30.28	34	N	1	b	30.08	-.24	36	36	0	NNW	1	0	*	40	29	-	
Nottingham ...	30.28	36	NNW	2	0	30.11	-.21	38	38	+ 1	NNW	1	0	*	40	32	0.01	
Ardrossan ...	30.23	44	WSW	1	b	30.14	-.21	38	37	+ 9	NNW	1	0	1	45	29	0.01	
Greencastle ...	30.26	37	SSW	2	+	30.21	-.12	41	40	+ 9	N	2	0	*	45	31	0.27	
Donaghadee ...	30.30	37	N	2	+	30.22	-.18	40	39	+ 9	N	4	0	3	43	31	0.01	
Kingstown ...	30.36	38	N	3	0	30.26	-.13	40	?	+ 7	NNW	4	0	4	41	32	-	
Holyhead ...	30.32	40	NNW	1	b	30.18	-.19	46	43	+ 12	NN	5	0	4	47	33	0.01	
Liverpool (Hudson) ...	30.29	36	N	1	b	30.13	-.23	41	40	+ 6	NNW	4	0	2	42	35	0.02	
Valencia ...	30.40	42	Z	0	+	30.38	-.03	45	42	+ 13	N	3	0	2	49	30	0.14	
Roche's Point ...	30.38	38	N	2	bc	30.33	-.05	42	40	+ 8	NNE	3	0	3	42	34	0.28	
Pembroke ...	30.35	41	NNW	1	c	30.22	-.14	44	43	+ 11	NNW	2	0	2	45	32	0.01	
Portishead ...																		
Seilly ...	30.37	45	NNW	5	0	30.26	-.07	48	48	+ 5	NN	3	0	2	48	42	0.01	
Plymouth ...	30.33	36	N	1	b	30.22	-.10	33	32	- 1	NN	2	0	2	42	29	-	
Hurst Castle ...	30.24	37	N	3	b	30.15	-.10	35	34	- 1	NN	2	0	2	41	29	-	
Dover ...	30.12	41	N	5	0	30.07	-.06	36	34	- 3	NNW	4	0	2	42	35	0.04	
London ...	30.22	40	NN	3	0	30.11	-.13	35	34	- 1	NNW	1	0	*	42	30	-	
Oxford ...	30.27	35	NNE	1	f	30.15	-.13	36	35	+ 4	N	1	0	*	38	32	-	
Cambridge ...	30.21	40	NN	1	0	30.08	-.18	35	34	+ 1	NN	1	0	*	42	?	-	
Yarmouth ...	30.15	42	NNW	5	0	30.05	-.12	38	37	- 5	NN	3	0	4	43	36	0.08	
The Helder ...	*	*	*	*	*	29.93	-.12	44	41	+ 3	NNW	2	0	*	*	*	0.12	
Cape Gris Nez ...	30.07	43	N	7	+	30.07	-.05	39	37	- 4	N	5	0	5	45	37	?	
Jersey ...																		
Brest ...	30.32	45	NE	2	bc	30.28	-.04	45	43	+ 11	N	3	0	3	45	?	-	
L'Orient ...	30.30	41	NNE	3	c	30.28	+ .03	41	?	+ 9	NNW	3	0	2	43	30	-	
Rochefort ...	30.16	46	NNE	4	bc	30.23	+ .08	43	39	+ 7	N	5	0	3	52	30	-	
Biarritz ...	30.21	48	ENE	2	0	30.25	+ .16	39	37	+ 3	SSW	2	0	3	?	32	0.04	
Corunna ...	*	*	*	*	*										*	*	*	
Brussels ...	*	*	*	*	*	29.97	-.08	41	40	+ 7	NN	1	0	*	41	?	0.24	
Charleville ...	*	*	*	*	*	29.89	-.12	39	*	+ 6	N	1	0	*	*	*	*	
Paris ...	30.06	42	?	3	0	30.08	-.04	41	39	+ 5	NE	4	+	*	*	*	0.20	
Lyons ...	*	*	*	*	*	29.99	+ .02	45	*	+ 6	E	2	0	*	*	*	*	
Toulon ...	29.86	36	SSW	6	mv	29.89	+ .03	36	32	+ 4	NN	6	0	6	36	?	-	

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

	Bar.	Dry.	Wet.	Wind.	Wes.	Sea.		Bar.	Dry.	Wet.	Wind.	Wes.	Sea.		
Skudeanaes ...	30.13	34	33	NNW	1	c	2	Valencia .....	30.41	44	41	ENE	2	0	3
Thurso .....	30.15	41	41	SSW	1	0	2	Seilly .....	30.37	46	41	NNE	4	0	2
Scarborough ...	30.25	39	37	NNW	2	bc	2	London .....	30.23	42	40	NW	2	c	*
Mullaghmore ...	30.34	40	39	SW	2	0	2	Rochefort ...	30.18	39	37	NNE	4	c	3
Holyhead .....	30.34	39	37	NNW	1	c	1								

The barometer has fallen slightly in the N. and E. and the winds have backed to NW. over our E. counties, but hardly any other change is reported.

Mullaghmore	30.31	41	SW	1	+	30.28	-.08	46	45	+ 11	NN	5	0	3	46	34	0.06
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## 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.

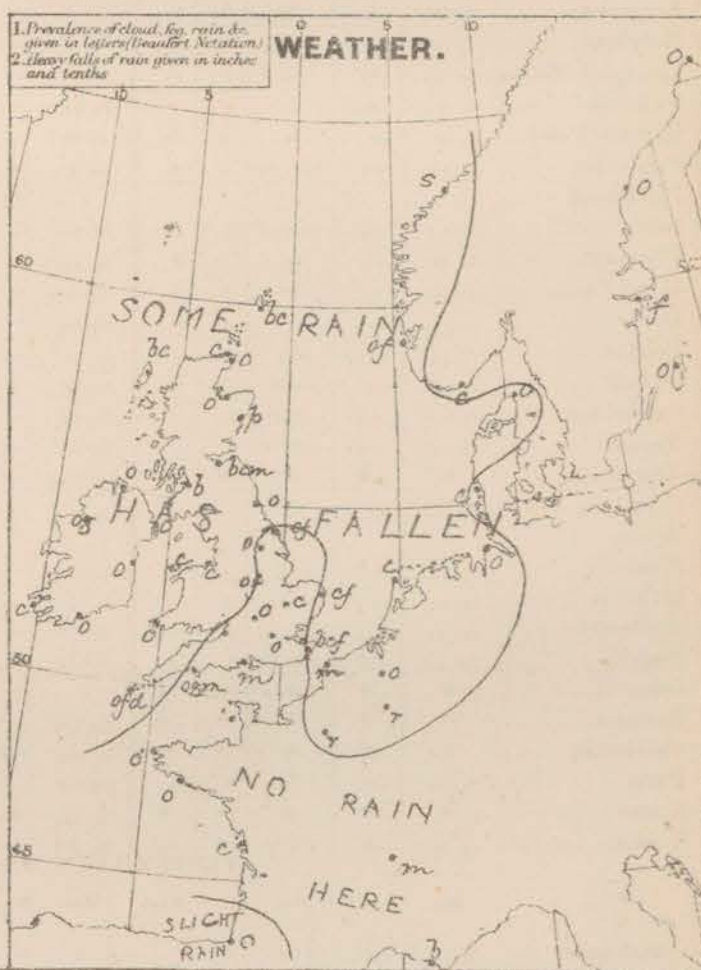
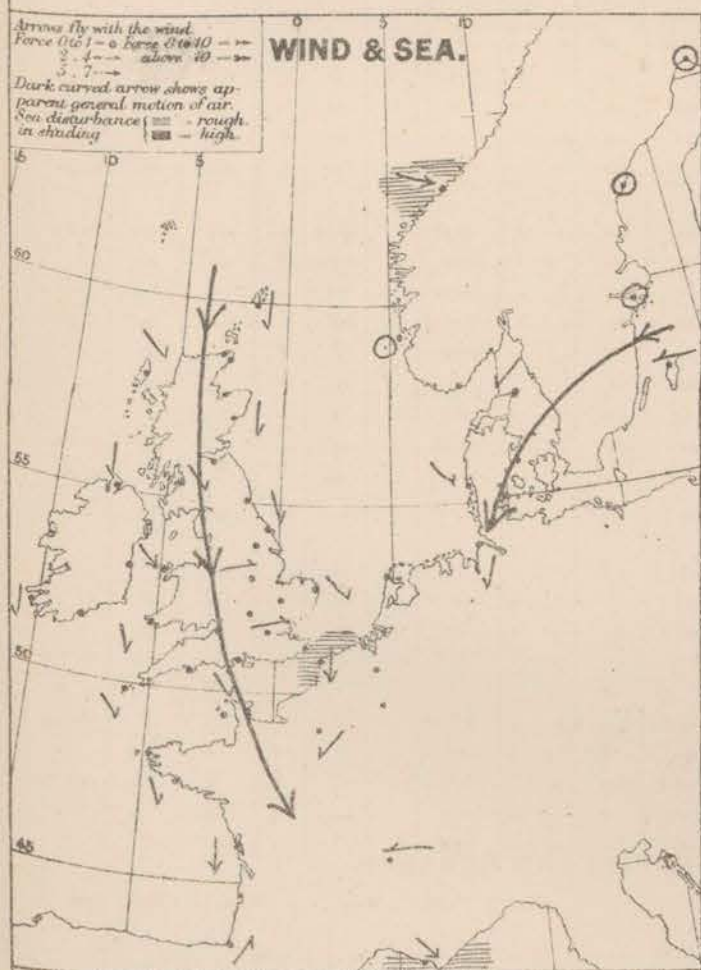
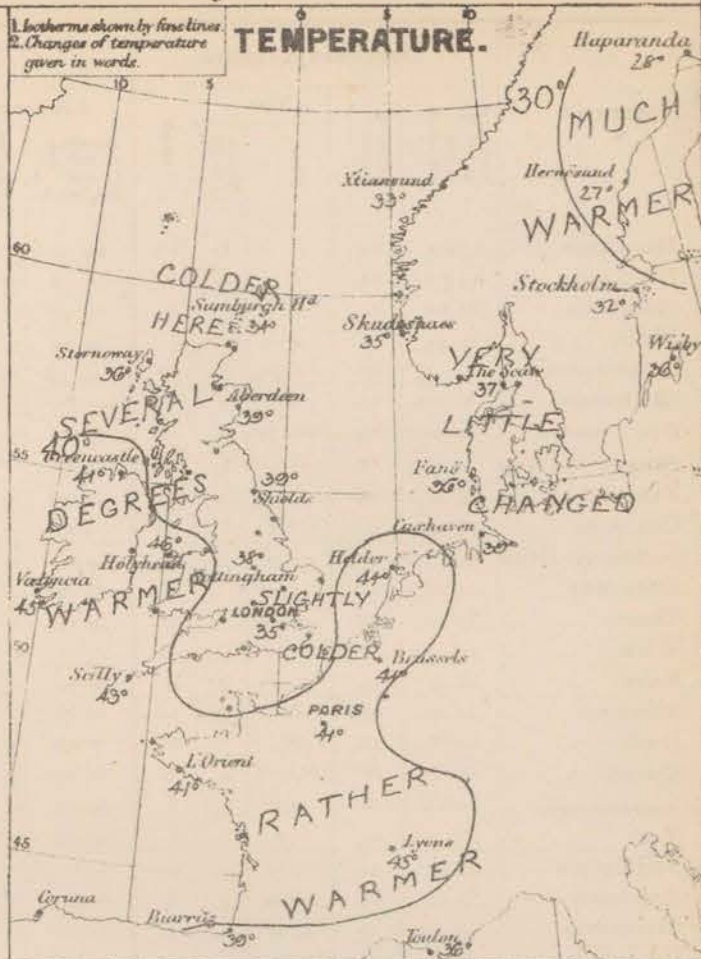
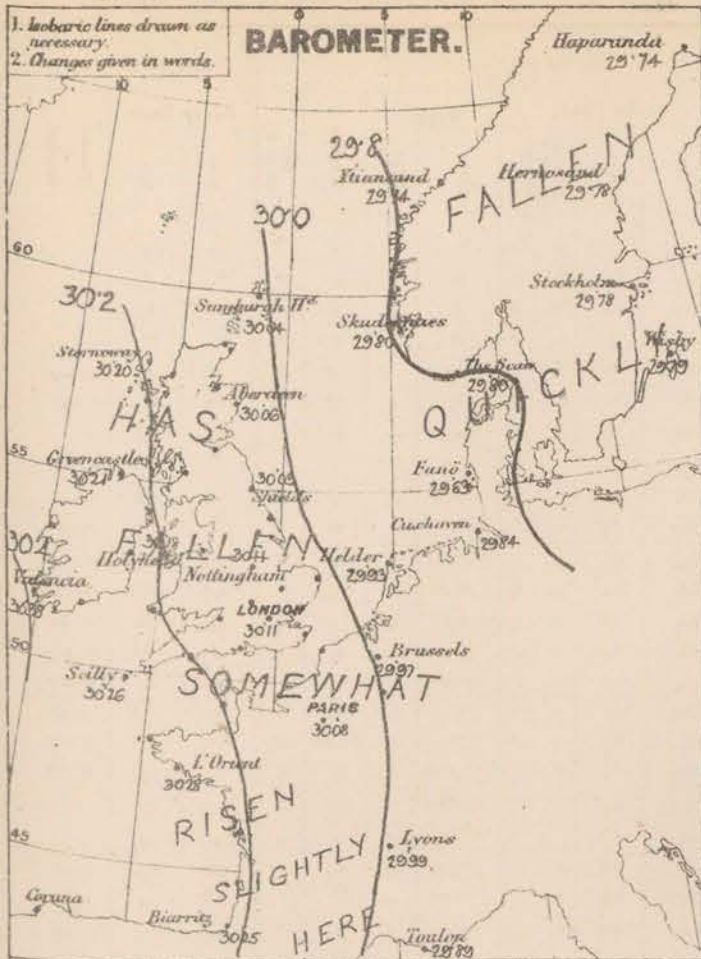
\* AN ASTERISK is inserted in all places for which information is not usually received.

† 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 5<sup>TH</sup> DEC<sup>R</sup> 1878.*



REMARKS. Weather over the United Kingdom is very cloudy this morning, stormy and foggy in the east. On the Continent it is still more unsettled, rain being reported at several stations and snow at Christiansund. Rain fell yesterday over all but the south eastern parts of England, but the amounts were small, except in Litchness and at one or two of our western stations. Temperature has risen several degrees in the west and north as well as over France, but fallen on our south and east coasts; readings vary from  $34^{\circ}$  to  $39^{\circ}$  at our western and eastern stations today (excepting harbors); while they vary from  $40^{\circ}$  to  $48^{\circ}$  in the west and south west. Wind is NW<sup>ly</sup> over the United Kingdom generally, varying to W. over Central England. In force it is generally light to moderate, but blows fresh at June and some of our exposed western stations. Sea is moderate to smooth on all our coasts but rather rough at Christiansund and C. Eric. Barometrical Indications. In the course of the past 24 hours the barometer has fallen quickly on the eastern slopes of the North Sea, rather briskly on our east coasts and very slightly in the south west, while it has risen over the Bay of Biscay. Readings this morning vary from 30.6 ins. at Valentia to 29.8 ins. over Denmark and the south of Norway. Gradients are therefore moderate for NW and N<sup>ly</sup> winds, but slight irregularities appear in the isobars which will probably cause occasional freshening of the wind on our west and east coasts.

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

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

R. H. SCOTT.

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# DAILY WEATHER REPORT

DEC 5 6<sup>TH</sup> 1878.

STATIONS.	† YESTERDAY EVENING.						8 A.M. TO DAY.										PAST 24 HOURS.		
	Barometer at 32° F. and Sea Level.	Temp. in shade.	WIND.		Weather.	BAROMETERS.		SHADE TEMP.			WIND.		Weather.	Sea (0 to 5.)	SHADE TEMP.		Amount of Rainfall.		
			Dirce.	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.	Dirce.	Force. (0 to 15).			Max.	Min.			
Haparanda ...	29.63	32	S	2	o	29.53	-21	25	15	-13	N S	4	o	*	32	14	0.08		
Hernösand ...	29.63	26	N	2	o	29.56	-22	27	25	o	NNN	4	o	*	*	*	0.08		
Stockholm ...	29.49	33	Z	o	f	29.39	-39	33	33	+1	NNE	2	o	*	*	*	0.08		
Wibby ...	29.55	38	ESE	4	o	29.41	-38	37	37	+1	NE	4	p	*	*	*	0.04		
Christiansund ...	29.76	33	NNN	5	s	29.69	-05	32	31	-1	NNN	4	h	5	34	25	0.32		
Skudesnaes ...	29.76	32	NNN	4	bc	29.69	-11	31	28	-4	NNN	5	o	2	36	?	-		
Oxö (Xtiansand) ...	29.62	34	NNE	2	c	29.60	-20	35	30	+7	NNN	4	c	2	?	30	-		
Skagen (The Scaw) ...	29.60	36	Z	o	o	29.53	-27	32	30	-5	ENE	5	o	4	37	27	0.04		
Fanö ...	29.66	36	NN	4	c	29.58	-25	35	33	-1	NN	4	c	*	41	34	-		
Cuxhaven ...	29.76	41	NN	4	o	29.64	-20	38	38	-1	NNN	2	c	*	41	36	0.01		
Sumburgh Head ...	30.06	32	NNE	5	bc	29.90	-14	34	32	o	NNE	2	o	2	36	30	0.02		
Stornoway ...	30.29	35	NN	4	bc	29.97	-23	38	38	+2	N	4	p	4	41	33	0.02		
Thurso ...	30.19	38	NNN	5	c	29.96	-18	37	37	-2	NNN	2	o	3	40	34	0.08		
Wick ...	30.17	35	N	4	bc	29.94	-17	33	32	-3	N	1	o	1	43	30	0.05		
Nairn ...	30.24	33	NNN	3	o	30.02	-12	34	32	-5	NNN	3	c	3	39	31	-		
Aberdeen ...	30.12	34	N	3	8	29.99	-07	34	33	-5	NN	2	c	2	40	32	0.08		
Leith ...	30.20	35	N	3	o	30.05	-04	34	33	-3	NSW	2	c	*	41	32	-		
Shields ...	30.13	38	N	4	o	30.05	-04	34	33	-5	NNN	2	o	4	42	30	0.08		
Scarborough ...	30.05	38	N	6	c	29.99	-04	33	31	-8	NN	2	c	4	43	32	0.50		
York ...	30.08	37	N	1	o	30.07	-01	33	33	-3	N	2	bc	*	41	30	0.05		
Nottingham ...	30.12	39	N	4	o	30.12	+01	29	27	-9	NN	2	o	*	41	28	0.03		
Ardrossan ...	30.24	34	NE	2	o	30.12	-02	38	36	o	NN	1	o	1	45	33	-		
Greencastle ...	30.27	40	N	3	o	30.15	-06	38	36	-3	N	2	o	*	48	34	0.01		
Donaghadee ...	30.29	41	NE	6	o	30.18	-04	34	33	-6	N	4	bc	3	45	33	-		
Kingstown ...	30.25	42	NN	4	o	30.25	-01	36	33	-4	NNN	4	o	4	43	31	-		
Holyhead ...	30.17	44	NNN	6	c	30.18	00	39	38	-7	NNE	4	c	4	48	38	0.05		
Liverpool (Bidston) ...	30.14	39	N	1	o	30.15	+02	37	34	-4	NNN	1	c	1	43	33	-		
Valencia ...	30.35	46	N	2	c	30.35	-03	33	32	-12	Z	o	bc	1	48	31	0.04		
Roche's Point ...	30.31	40	N	3	bc	30.26	+03	35	33	-7	N	3	bc	2	47	32	-		
Pembroke ...	30.20	45	NNN	3	c	30.22	00	41	37	-3	NN	3	bc	2	46	39	0.03		
Portishead ...																			
Scilly ...	30.23	48	N	6	o	30.25	-01	44	40	-4	NE	5	o	4	49	43	0.04		
Plymouth ...	30.16	40	NN	2	c	30.22	00	31	30	-2	NN	1	o	*	?	31	0.01		
Hurst Castle ...	30.05	43	N	3	o	30.13	-02	32	30	-3	NNN	2	o	2	43	28	-		
Dover ...	29.97	40	NN	4	o	30.00	-07	33	31	-3	NNN	5	bc	3	41	32	-		
London ...	30.04	40	NNN	4	cd	30.06	-05	30	28	-5	NN	2	bc	*	42	30	0.01		
Oxford ...	30.07	38	NN	1	bc	30.12	-03	30	28	-6	NNN	3	o	*	44	28	-		
Cambridge ...	30.00	38	NN	1	o	30.06	-02	29	28	-6	NN	2	o	*	42	29	0.07		
Yarmouth ...	29.93	41	NN	3	p	29.95	-10	34	34	-4	NN	4	bc	4	41	33	0.22		
The Helder ...	*	*	*	*	*	29.79	-14	39	37	-5	NN	5	o	*	*	*	0.20		
Cape Gris Nez ...	29.97	41	SSN	3	p	30.00	-07	34	34	-5	NNN	6	o	5	43	34	0.12		
Jersey ...																			
Brest ...	30.22	46	N	4	o	30.22	-06	39	37	-6	N	4	bc	3	30	37	0.12		
L'Orient ...	30.18	48	NN	4	p	30.17	-11	39	?	-2	NNN	3	bc	3	48	37	-		
Rochefort ...	30.20	48	N	4	bc	30.10	-13	41	39	-2	N	4	o	3	52	32	0.12		
Biarritz ...	30.24	46	ENE	2	c	30.07	-18	46	41	+7	NNE	2	c	4	50	37	0.43		
Corunna ...	*	*	*	*	*				*						*	*	*		
Brussels ...	*	*	*	*	*	29.88	-09	34	33	-7	NNN	1	o	*	42	34	0.32		
Charleville ...	*	*	*	*	*	?	?	35	*	-4	N	3	o	*	*	*	*		
Paris ...	30.02	41	?	3	o	29.99	-09	35	33	-6	NE	2	c	*	*	*	0.12		
Lyons ...	*	*	*	*	*	29.99	00	34	*	-11	SE	2	p.	*	*	*	*		
Toulon ...	29.88	39	NN	5	bc	29.81	-08	37	34	+1	NN	6	bc	6	45	36	-		

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

	Bar.	Dry.	Wet.	Wind.	Wes.	Sea.		Bar.	Dry.	Wet.	Wind.	Wes.	Sea.		
Skudesnaes ...	29.77	33	32	NNN	6	c	3	Valencia .....	30.34	48	45	N	2	cp	3
Thurso .....	30.20	36	36	NNN	6	bc	5	Scilly .....	30.23	48	45	N	6	o	5
Scarborough ...	30.04	42	40	NNW	4	cp	5	London .....	30.02	43	42	NN	1	om	4
Mullaghmore ...	30.18	45	43	NN	4	cp	3	Rochefort ...	30.20	45	41	N	5	bc	3
Holyhead .....	30.15	46	44	NNN	5	c	4								

No important change has occurred since the morning. The wind has freshened considerably from the N.W. at Scilly and Thurse, and the weather is showery in several places.

Mullaghmore	30.33	43	NE	5	6	30.23	-05	41	40	-5	N	4	og	4	46	38	0.06
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## 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.







# DAILY WEATHER REPORT

DEC 7<sup>th</sup>

1878.

STATIONS.	† YESTERDAY EVENING.						8 A.M. TO DAY.										LAST 24 HOURS.		
	Barometer at 32° F. and Sea Level.	Temp. in shade.	WIND.		Weather.	Barometer. Reading at 32° F. and Sea Level.	SHADE TEMP.			WIND.	Force. (0 to 13).	Weather.	Sea. (0 to 9).	SHADE TEMP.			Max.	Min.	Amount of Rainfall.
			Dir.	Force. (0 to 13).			Dry.	Wet.	Difference from 8 a.m. yesterday.										
Haparanda	29.45	15	S	2	o	29.50	-0.03	1	1	-14	N	2	be	*	16	1	0.08		
Hernösand	29.50	21	NNN	4	be	29.58	+0.02	20	17	-7	N	4	c	*	*	*	-		
Stockholm	29.40	29	NNN	4	s	29.47	+0.08	25	24	-8	N	2	s	*	*	*	0.04		
Wiesby	29.42	28	N	6	h	29.47	+0.06	33	32	-4	SSN	6	o	*	*	*	0.20		
Christiansund	29.64	31	SN	2	s	29.60	-0.09	31	30	-1	SSN	1	o	4	32	27	0.59		
Skudesnaes	29.61	28	ENE	4	o	29.56	-0.13	25	24	-6	N	2	b	2	23	22	-		
Oxö (Xiansand)	29.57	30	N	4	o	29.53	-0.07	26	23	-9	NNN	4	b	2	?	23	-		
Skagen (The Scaw)	29.49	32	ENE	4	s	29.44	-0.09	30	28	-2	?	6	s	6	34	28	0.16		
Fanö	29.52	30	N	4	b	29.52	-0.06	26	26	-9	N	1	o	*	36	25	-		
Cuxhaven	29.57	37	NNN	3	s	29.55	-0.09	32	30	-6	N	1	c	*	?	27	-		
Sumburgh Head	29.71	35	NNE	4	o	29.72	-0.18	33	31	-1	NNE	5	c	4	36	31	0.11		
Stormoway	29.83	37	N	5	c	29.90	-0.07	35	35	-3	NN	4	be	4	42	34	0.05		
Thurso	29.81	40	NNE	3	o	29.81	-0.15	37	37	0	N	5	be	5	41	34	0.21		
Wick	29.77	35	N	3	c	29.79	-0.15	34	33	+1	NN	4	s	2	37	32	0.05		
Nairn	29.82	36	NNN	2	o	29.83	-0.19	36	33	+2	NNN	4	o	3	38	34	-		
Aberdeen	29.75	36	N	2	dep	29.72	-0.27	34	33	0	N	3	s	2	37	34	0.16		
Leith	29.78	37	NNN	2	be	29.76	-0.29	35	33	+1	N	3	o	*	39	33	-		
Shields	29.80	35	N	2	o	29.71	-0.34	34	33	0	NNN	2	be	3	37	33	-		
Scarborough	29.82	34	N	2	o	29.66	-0.33	35	35	+2	NN	2	s	3	36	33	-		
York	29.87	34	N	1	s	29.70	-0.37	35	34	+2	N	1	o	*	39	31	0.08		
Nottingham	29.87	35	SN	1	s	29.71	-0.41	36	35	+7	NNN	1	o	*	41	28	0.01		
Ardrossan	29.83	43	N	2	o	29.82	-0.30	37	33	-1	NNE	3	o	*	44	36	0.27		
Greencastle	29.90	42	NN	2	o	29.88	-0.27	39	36	+1	N	3	o	*	44	36	0.21		
Donaghadee	29.89	40	NN	3	c	29.87	-0.31	42	38	+8	NNE	6	be	4	43	34	0.16		
Kingstown	29.97	41	NNN	4	be	29.87	-0.38	39	37	+3	NNN	5	o	5	41	35	-		
Holyhead	29.91	42	N	6	cq	29.79	-0.39	42	38	+3	NNE	6	c	5	46	39	0.13		
Liverpool (Bidston)	29.84	40	N	5	+	29.76	-0.39	36	34	-1	NNN	2	o	1	42	36	0.11		
Valencia	30.16	45	NNN	3	c	29.00	-0.35	43	41	+10	N	2	c	2	49	32	0.14		
Roche's Point	30.11	42	NNN	5	c	29.96	-0.40	41	39	+6	N	4	be	3	45	33	-		
Pembroke	30.02	45	NNN	5	o	29.77	-0.45	40	39	-1	NNE	2	dep	3	46	40	0.02		
Portishead																			
Scilly	30.19	43	NNN	5	c	29.81	-0.44	46	46	+2	N	7	aght	6	46	42	0.23		
Plymouth	30.10	36	N	1	o	29.72	-0.50	38	38	+7	NN	2	o	*	42	31	0.18		
Hurst Castle	30.02	38	NN	3	be	29.67	-0.46	38	38	+6	NNE	1	+	2	41	29	-		
Dover	29.92	34	NNN	4	be	29.84	-0.36	35	34	+2	N	3	off	2	36	32	0.02		
London	29.97	35	NN	2	o	29.67	-0.39	36	35	+6	N	1	off	*	37	30	0.12		
Oxford	29.99	35	NN	1	be	29.71	-0.41	35	34	+5	N	1	m	*	37	30	0.03		
Cambridge	29.91	34	SN	1	o	29.68	-0.38	34	34	+5	NN	1	o	*	39	29	0.09		
Yarmouth	29.86	33	NNN	4	c	29.65	-0.30	33	33	-1	NNN	2	of	4	35	31	0.15		
The Helder	*	*	*	*	*	29.60	-0.19	35	34	-4	NNN	1	o	*	*	*	0.12		
Cape Gris Nez	29.95	36	NNN	5	o	29.82	-0.38	37	36	+3	NNN	3	o	3	39	34	0.12		
Jersey																			
Brest	30.18	45	N	2	o	29.82	-0.40	45	41	+6	N	4	o	3	?	37	0.08		
L'Orient	30.19	39	N	2	be	29.81	-0.36	43	?	+4	NN	4	+	3	45	36	0.16		
Rochefort	30.16	48	N	3	be	29.95	-0.15	45	41	+4	NNN	5	+	3	36	36	-		
Biarritz	30.15	48	ENE	1	c	29.97	-0.10	39	37	-7	SSN	2	+	3	38	36	0.08		
Corunna	*	*	*	*	*														
Brussels	*	*	*	*	*	29.65	-0.23	32	32	-2	S	3	s	*	38	32	0.16		
Charleville	*	*	*	*	*	29.66	?	31	*	-4	NNN	1	s	*	*	*	0.08		
Paris	30.02	37	?	2	o	29.74	-0.25	34	33	-1	NE	2	s	*	*	*	0.08		
Lyons	*	*	*	*	*	29.83	-0.16	46	*	+12	SE	2	c	*	*	*	*		
Toulon	29.72	37	NN	7	c	29.70	-0.11	32	27	-5	NN	7	o	7	45	32	-		

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

	Bar.	Dry.	Wet.	Wind.	Wes.	Sea.		Bar.	Dry.	Wet.	Wind.	Wes.	Sea.		
Skudesnaes ...	29.61	30	27	NNW	2	6	2	Valencia .....	30.24	46	44	NN	3	e	3
Thurso .....	29.81	40	39	NNW	3	c	3	Scilly .....	30.22	43	39	NNW	5	o	4
Scarborough ...	29.89	35	33	NNW	2	c	3	London .....	30.00	37	33	NNW	1	6	*
Mullaghmore ...	30.08	43	43	NW	6	c	5	Rochefort ...	30.14	43	41	N	4	bc	3
Holyhead .....	30.05	42	40	N	5	ow	4								

The barometer is falling everywhere, most in the N. and NN. The depression off our N. coast is now being followed by a secondary disturbance which is coming over the N. of Ireland.

Fanning extended to the remainder of our N. coast.

Mullaghmore 29.98 45 NN 6 0 29.94 29 44 41 + 3 NN 5 0 9 4 46 39 0.10

## 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 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.

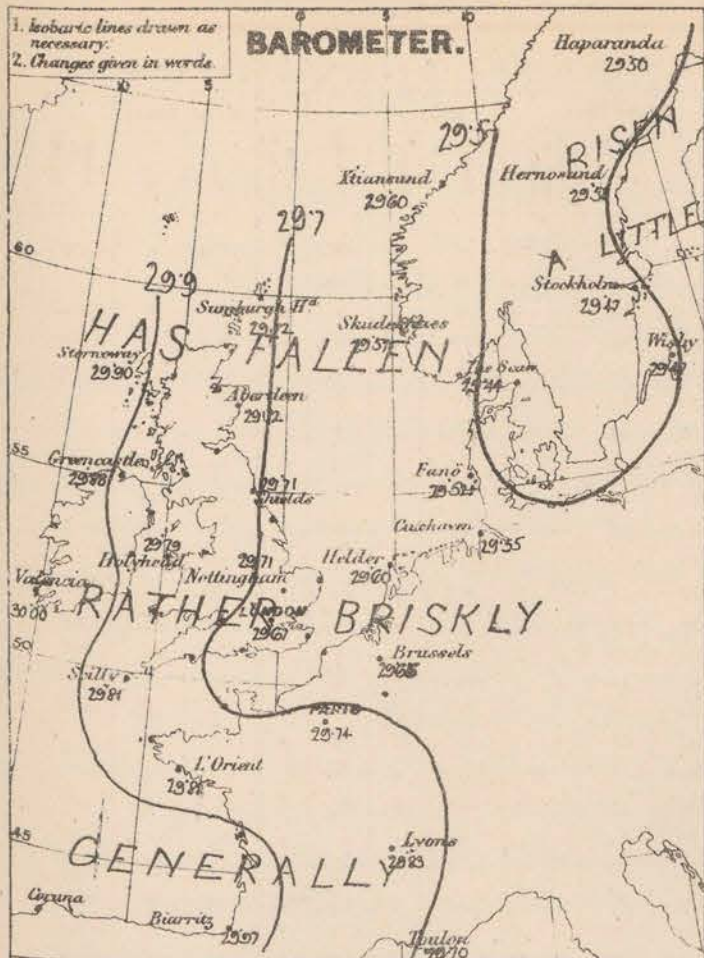
N.B.—The wind is said to "veer" when its direction changes with the sun, and to "back" when it shifts in the opposite direction.



# WEATHER CHARTS for 8 a.m. on Saturday 7<sup>th</sup> Dec<sup>r</sup> 1878.

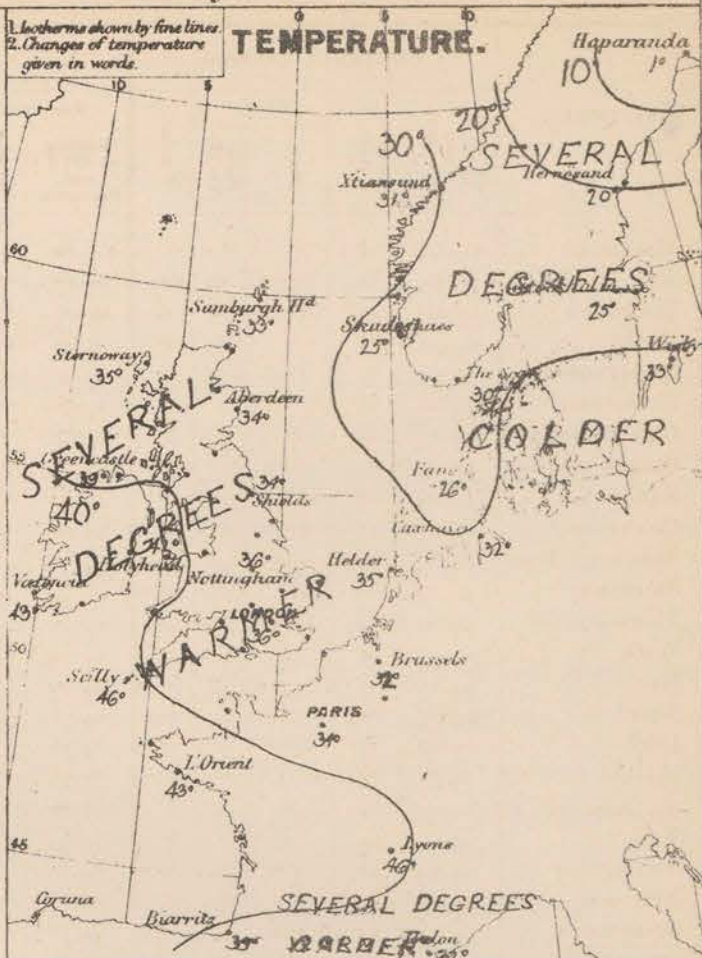
1. Isobars lines drawn as necessary.
2. Changes given in words.

## BAROMETER.



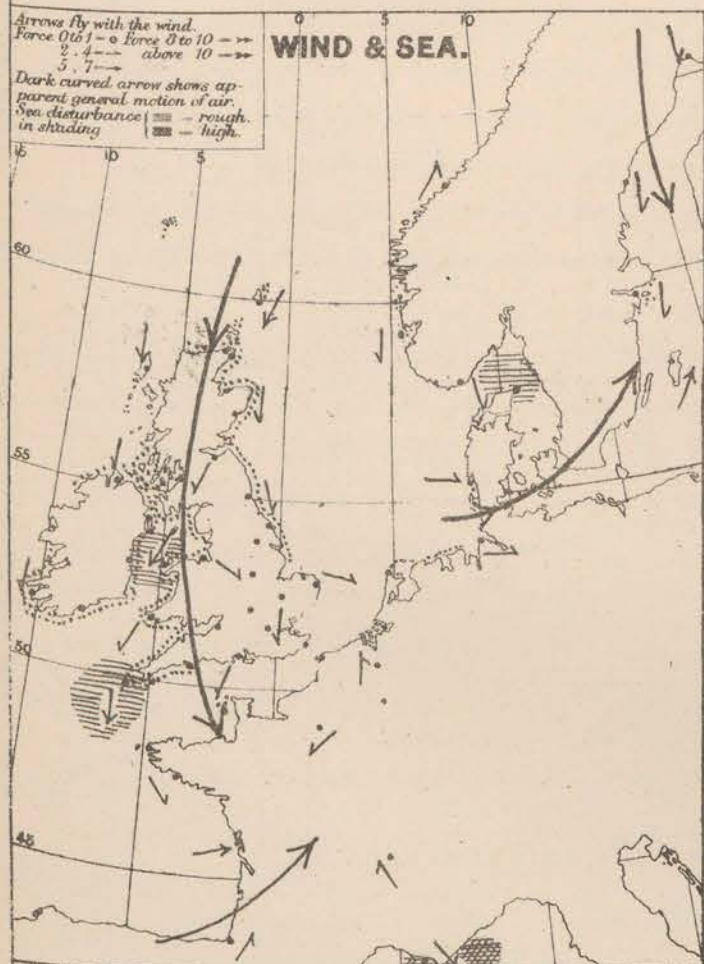
1. Isotherms shown by fine lines.
2. Changes of temperature given in words.

## TEMPERATURE.



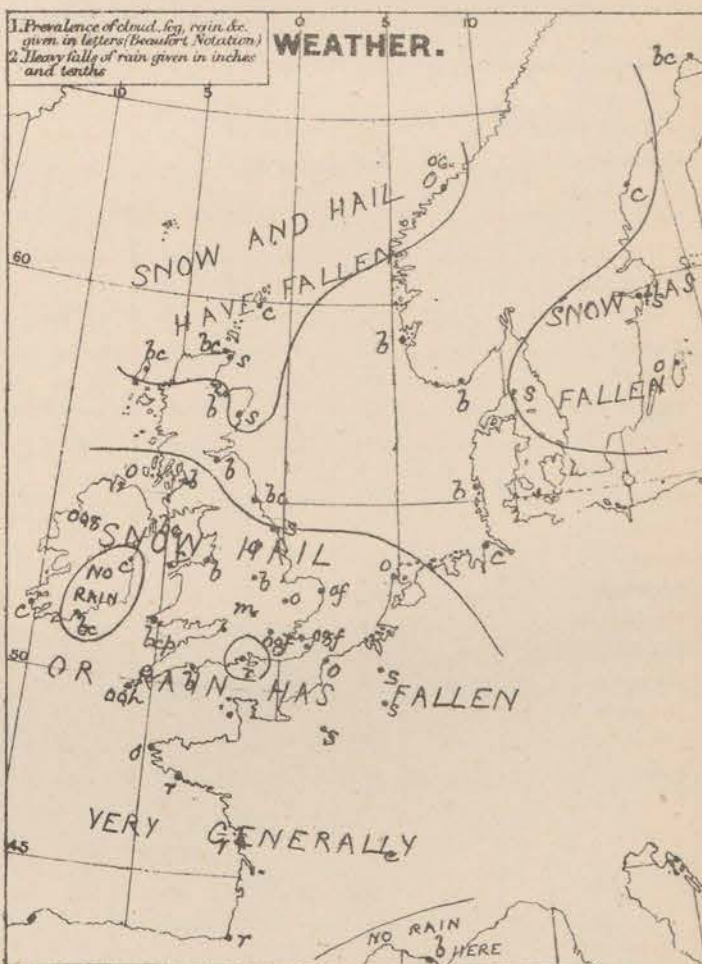
1. Arrows fly with the wind.
  2. Force 0 to 10 —
  3. 4 — above 10 —
  4. 5 — 7 —
- Dark curved arrow shows apparent general motion of air.
- Sea disturbance (—) — rough in shading (—) — high.

## WIND & SEA.



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

## WEATHER.



Note: A dotted line is drawn round these coasts which were warm yesterday.

**REMARKS.** Weather is fine in the south west of Norway, the west of Scotland and in some parts of the west of England, but is dull or cloudy elsewhere; snow is falling on our north east coast and in the north east of France and the Netherlands, hail at Bally and rain at Hurst Castle and over the Bay of Biscay. Some snow or hail has occurred at most of our stations; in London the fall lasted from about 9 p.m. to midnight. Snow has been seen at Kingstown and Corra at Mullaghmore. Temperature has risen over these islands and the north west of France, fallen elsewhere; the thermometer is as high as 46° at Bally, but falls to 33° at Lymington to 32° at Toulon and to 1° at Haparanda (Lapland). Wind is N.W. on most of our coasts but is N.W. to W. in the west of France and S. at Brest and W. at Wex. It is moderate or light in force generally, but blows strongly in the north east and with the force of a moderate gale at the Bally Islands. Sea is moderate or light except in the Irish Sea and near Bally.

**Barometrical Indications.** Pressure is inclined to increase somewhat in the north and north west of Scotland but is decreasing elsewhere — most over the central and south eastern parts of England. A large depression lies over Sweden, while a small subsidiary disturbance is shown over the Channel.

**Forecast.** The weather is inclined to be north west, west and north east coasts yesterday morning have since been extended to our west and south west coasts.

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 DEC<sup>r</sup> 1<sup>st</sup> to DEC<sup>r</sup> 7<sup>th</sup> 1878.

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

The weather during this week has been generally of an unsettled and inclement character, occasionally varied by short periods of improved conditions. Pressure has been as a rule highest to the W<sup>nd</sup> of these Islands, and depressions have consequently passed in a S<sup>W</sup> or SE<sup>W</sup> direction over the United Kingdom or the North Sea, bringing NW<sup>W</sup> to N<sup>W</sup> breezes, low temperatures and frequent showers of rain and snow. These disturbances appeared the first on Sunday, the second on Thursday, and the third on Friday, and though not of sufficient importance to cause general gales on our coasts, they nevertheless gave rise to a considerable increase of wind on those days, and gales locally at the Mouth of the Channel.

## SUNDAY DEC<sup>r</sup> 1<sup>st</sup>

Weather fair in the N. and NW. very dull and gloomy elsewhere, with small rain over our S<sup>W</sup> and SE<sup>W</sup> countries. Rain very general during the day—heaviest at Dover, where half an inch fell.

Temperature higher than on Nov: 30<sup>th</sup>, but still low generally, the maximum reaching 50° at Valentia and Scilly only; in many places but little above 40°.

Wind light to moderate; NW<sup>W</sup> in the N., NE<sup>W</sup> in the S., and blowing strongly at Scilly (locally). Strong N<sup>W</sup> squalls at the mouth of the Channel and in the Irish Sea, later on reaching the force of a gale at Scilly.

Sea rough in the SW. and N.

Barometer unsettled; rising in the N., falling elsewhere. Depression over the NE<sup>W</sup> parts of Great Britain, moving in a SSE<sup>W</sup> direction. Another depression over the Baltic, and a third over the S<sup>W</sup> part of the Bay of Biscay.

## MONDAY DEC<sup>r</sup> 2<sup>nd</sup>

Weather very dull generally, but drier than of late except in the E., where rain fell during the day with some hail.

Temperature decreasing first in the N. and NW. and afterwards more generally, but the change not very marked. Maximum<sup>51°</sup> at Valentia only, 39° at Wick, Nairn and Oxford. Night minima below 32° in several places.

Wind N<sup>W</sup> to NE<sup>W</sup> light to moderate, but strong NW<sup>W</sup> in the Bay of Biscay. S<sup>W</sup> air felt over the Netherlands and NE. of France.

Sea rough in the SW. only.

Barometer rising generally. Highest in the extreme N. and N., lowest and irregularly distributed over the Mediterranean and Southern Europe.

## TUESDAY DEC<sup>r</sup> 3<sup>rd</sup>

Weather fair in the N. and SW., as well as in some parts of the N. of England and N. of Scandinavia. Showers in the E. and drizzle in the SE. Slight rain in E and N. during day.

Temperature fallen except in the S. of Sweden and over the Skager Rack. Varying from 45° at Scilly to 32° at Plymouth and 33° at Wick. Maximum about 40° to 45°, and the minima at the N<sup>W</sup> island stations between 28° and 30°.

Wind NE<sup>W</sup> on our coasts, more N<sup>W</sup> on the Continent, light to fresh in force. Little change during the day, excepting the appearance of S<sup>W</sup> air in the Hebrides at 6 P.M.

Sea slight to smooth.

Barometer rising generally.—Readings highest over Sweden but moderately high and very uniform on our N<sup>W</sup> and N<sup>W</sup> coasts, lowest over the Mediterranean. Slight fall at Stromsø, in the evening.



WEDNESDAY DEC<sup>r</sup> 4<sup>th</sup>

Weather fine over the greater part of the United Kingdom and the N. of Scandinavia, cloudy or dull elsewhere. Rain falling in N. Germany and the Netherlands, fog and mist in several places. Some rain falling subsequently, except in SE. and S.

Temperature risen a little over the N. of Scotland and N. Germany, fallen in most other districts. Varying from 27° to 29° in the S. and E. of Scotland, but rather higher in other parts of our Islands.

Winds S<sup>W</sup> to W<sup>W</sup> in the N. and NW., but still N<sup>W</sup> elsewhere, moderate in force generally, but fresh in the Straits of Dover.

Sea slight or smooth except off Cape Fin Rey, and the Scars.

Barometer rising except in Scandinavia and the N. of these Islands. Areas of high pressure shown over our SW<sup>n</sup> stations and Sweden, of low pressure off our N<sup>W</sup> coast and the Mediterranean. Fall of barometer becoming general in evening.

THURSDAY DEC<sup>r</sup> 5<sup>th</sup>

Weather dull, cloudy, foggy and misty, with rain in the NE. of France; finer generally in the NW. at evening, but snow falling at Aberdeen. Rain, hail or snow showers occurring in most places during some part of the day.

Temperature fallen in the E. and N. of these Islands, risen in the W. and at most of the Continental stations. Varying from 48° at Scilly to 35° over the SE<sup>n</sup> counties and 34° in the Shetlands. Minima between 28° and 32° at the inland stations.

Winds NW<sup>W</sup> to N<sup>W</sup> on all coasts, light to fresh in force.

Sea rough in the Straits of Dover.

Barometer rising in the W. and S. of France, falling elsewhere slightly over these Islands, quickly over Scandinavia. Highest in the W., lowest in the E. Still decreasing in the S. and SE. in the evening, but increasing in the N.

FRIDAY DEC<sup>r</sup> 6<sup>th</sup>

Weather fine over the SW and Central parts of England, the Channel and the S. of Ireland, cloudy or dull elsewhere with rain in the N. of Scotland. Showers of snow, hail or rain falling very generally during the succeeding day or night.

Temperature fallen several degrees over these Islands and the N. of France, uniformly low over W<sup>n</sup> Europe.

Winds W<sup>W</sup> in the N., and NW<sup>W</sup> in the E. and drawing into N. and NE. in the S. and SW.; blowing fresh over the Channel and Netherlands at 8 am, and strongly from W. & NW. on our W<sup>n</sup> coasts in the evening.

Sea rough off Cape Fin Rey and Christiansund.

Barometer falling everywhere - most in the N. Readings highest in the SW., lowest over the Baltic. Large depression advancing towards Norway, and small one subsequently passing SW down our W<sup>n</sup> coast.

SATURDAY DEC<sup>r</sup> 7<sup>th</sup>

Weather fine at many of our W<sup>n</sup> and NW<sup>n</sup> stations as well as in the SW. of Norway, cloudy or dull in most other places, snow falling in the NE<sup>n</sup> part of our Islands and France, rain in the W. of France; snow or rain fell generally during the day, heavily at Scarborough.

Temperature risen several degrees over the United Kingdom, fallen over Scandinavia; varying from 46° at Scilly, to 33° at Lumburg Head and Yarmouth and 25° at Skudesnæs. Minima 27° to 29° in the N. of England.

Winds N<sup>W</sup> generally but drawing into SW. and W. in the SW. part of France and variable in the Netherlands; fresh in force in the W. and blowing a gale at Scilly, later in the day.

Sea rough in the Irish Sea and off Scilly.

Barometer falling except in the N. of Scotland, - most over Central and S. England. Readings highest in the W., lowest over the S. of Scandinavia; - small subsidiary disturbance over the Channel. Pressure giving way everywhere.

Meteorological Office,

116 Victoria Street, Westminster, S. W.

ROBERT H. SCOTT, Secretary.



# DAILY WEATHER REPORT

DEC 8<sup>th</sup>

1878.

STATIONS.	† YESTERDAY EVENING.					8 A.M. TO DAY.										PART 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.			
			Dirco.	Force. (0 to 13).		Reading at 3 p.m. and Sea Level.	Difference from 8 a.m. yesterday.	Dry.	Wet.	Difference from 8 a.m. yesterday.	Dirco.	Force. (0 to 13).			Max.	Min.	Amount of Rainfall.	
Haparanda ...	29.73	-10	N	2	6	29.84	+ .34	1	1	0	N	2	0	*	1	-11	-	
Hernösand ...	29.67	15	N	4	0	29.57	- .01	23	23	+ 3	N	4	8	*	*	*	0.08	
Stockholm ...	29.41	31	S	2	60	29.43	- .04	28	28	+ 3	Z	0	6	*	*	*	0.20	
Wishby ...	29.44	33	SSH	6	0	29.48	+ .01	28	27	- 5	S	4	6	*	*	*	0.12	
Christiansund ...	29.56	28	ESE	3	6	29.59	- .01	24	23	- 7	ESE	3	6	3	30	18	0.08	
Skudesnaes ...	29.57	27	ENE	1	6	29.47	- .09	24	22	- 1	NNE	2	6	2	28	23	-	
Oxö (Xtiansand)	29.52	25	NNW	4	6	29.49	- .04	30	27	+ 4	NN	2	6	2	?	?	-	
Skagen (The Seaw)	29.43	30	NNE	4	8	29.45	+ .01	28	27	- 2	NNW	3	6	4	32	23	0.08	
Fanö ...	29.52	26	SSE	1	6	29.50	- .02	24	24	- 2	S	4	f	*	32	19	-	
Cuxhaven ...	29.58	33	SSH	1	f	29.47	- .08	32	32	0	SSE	1	0	*	?	28	-	
Sumburgh Head	29.68	31	NNE	5	6	29.60	- .12	34	32	+ 1	NNE	3	8	2	34	30	0.11	
Stornoway	29.84	35	N	5	0	29.74	- .16	30	?	- 5	N	4	8	4	39	28	0.02	
Thurso ...	29.77	36	NE	4	0	29.65	- .16	37	37	0	NNE	4	60	4	41	33	0.19	
Wick ...	29.73	33	N	4	0	29.67	- .12	35	34	+ 1	N	3	th	3	37	32	0.19	
Nairn ...	29.79	34	NNW	3	0	29.66	- .17	34	30	- 5	NNW	5	6	4	36	30	0.04	
Aberdeen ...	29.71	33	N	2	0	29.56	- .16	33	32	- 1	NNW	3	8	3	35	31	0.40	
Leith ...	29.76	35	NNW	3	6	29.56	- .26	31	30	- 4	NNE	3	6	*	41	30	-	
Shields ...	29.68	34	NNE	4	60	29.50	- .21	32	31	- 2	N	2	8	5	37	30	0.22	
Scarborough	29.62	38	N	4	60	29.48	- .18	32	32	- 3	NN	1	0	3	38	32	0.69	
York ...	29.65	34	NN	2	0	29.50	- .20	33	30	- 2	NN	2	0	*	37	29	0.02	
Nottingham ...	29.65	35	N	3	6	29.52	- .19	29	28	- 7	NNW	1	0	*	37	27	-	
Ardrossan ...	29.79	37	N	2	60	29.62	- .20	32	30	- 5	NNE	3	6	2	41	30	-	
Greencastle ...	29.87	35	N	2	f	29.67	- .21	33	32	- 6	N	3	8	*	43	32	0.13	
Donaghadee ...	29.83	41	NNE	6	60	29.64	- .23	38	34	- 4	NE	5	0	4	42	35	0.02	
Kingstown ...	29.86	37	NN	6	6	29.65	- .22	34	33	- 5	NNW	4	0	4	41	33	0.01	
Holyhead ...	29.78	40	NNE	6	6	29.58	- .21	39	35	- 3	NNE	5	0	4	44	38	-	
Liverpool (Bidston)	29.72	36	NNW	3	6	29.55	- .21	32	30	- 4	NNW	2	6	1	38	32	-	
Valencia ...	29.98	43	N	3	60	29.79	- .21	44	41	+ 1	N	5	ogw	5	47	40	0.15	
Roche's Point...	29.91	40	N	4	60	29.73	- .23	37	35	- 4	NNW	5	p.	3	45	36	0.08	
Pembroke ...	29.80	35	N	4	0	29.61	- .16	32	32	- 8	N	2	chap	2	42	32	0.31	
Portishead ..																		
Scilly ...	29.79	45	NNE	9	0	29.64	- .17	44	40	- 2	N	8	2ohr	6	46	39	0.14	
Plymouth ...	29.72	46	NNE	2	6	29.58	- .14	33	32	- 5	NN	1	bs	*	44	30	-	
Hurst Castle ...	29.64	36	NNE	2	0	29.54	- .13	31	29	- 7	N	2	60	2	39	28	0.01	
Dover ...	29.57	34	NNE	3	60	29.45	- .19	33	32	- 2	NNW	4	osg	2	36	32	0.01	
London ...	29.62	37	NNW	1	09	29.50	- .17	32	30	- 4	NNW	1	og	*	37	32	-	
Oxford ...	29.68	35	NN	1	0	29.54	- .17	31	29	- 4	NN	1	0	*	36	31	-	
Cambridge ...	29.61	34	NN	1	0	29.49	- .19	32	32	- 2	NNW	1	0	*	36	31	-	
Yarmouth ...	29.56	36	NNW	2	0	29.46	- .19	32	32	- 1	NNW	2	osthf	3	39	31	0.04	
The Helder ...	*	*	*	*	*	29.42	- .18	28	28	- 7	ESE	1	f	*	*	*	-	
Cape Gris Nez																		
Jersey ...																		
Brest ...	29.78	45	N	5	0	29.66	- .16	37	36	- 8	N	4	0	4	46	32	0.51	
L'Orient ...	29.70	41	NNW	5	6	29.67	- .14	37	?	- 6	NN	4	f	3	46	34	-	
Rochefort ...	29.63	48	NN	5	60	29.60	- .35	37	36	- 8	NNW	5	60	3	32	34	0.12	
Biarritz ...	29.67	46	NNW	7	T	29.70	- .27	45	39	+ 6	NNW	4	0	4	32	37	0.43	
Corunna ...	*	*	*	*	*	29.94	- .24	47	*	+ 5	N	6	?	1	*	*	*	
Brussels ...	*	*	*	*	*	29.43	- .22	31	29	- 1	SE	2	0	*	34	31	0.16	
Charleville ...	*	*	*	*	*	29.41	- .25	29	?	- 2	NNW	1	0	*	*	*	*	
Paris ...	29.55	35	N	4	T	29.48	- .26	35	34	+ 1	NE	3	0	*	*	*	0.08	
Lyons ...	*	*	*	*	*	29.49	- .34	37	*	- 9	SW	2	8	*	*	*	*	
Toulon ...	29.63	32	NN	6	0	29.54	- .16	36	36	+ 4	NN	2	f	3	26	30	0.04	

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

	Bar.	Dry.	Wet.	Wind.	Wea.	Sea.		Bar.	Dry.	Wet.	Wind.	Wea.	Sea.		
Skudesnaes ...	29.53	28	25	ENE	1	6	2	Valencia .....	29.99	45	41	N	3	0	4
Thurso .....	29.60	38	36	N	4	0	4	Scilly .....	29.80	45	42	N	9	0	7
Scarborough ...	29.60	38	37	N	4	0	4	London .....	29.64	37	36	N/N	2	og	*
Mullaghmore ...	29.95	42	40	N	6	09	5	Rochefort ...	29.71	45	45	N	5	be	3
Holyhead .....	29.79	41	37	N/NE	6	6	5								

The barometer has fallen since the morning at our eastern and southern stations and is inclined to fall generally. At Scilly the N<sup>th</sup> wind has risen to a hard gale.

Mullaghmore	29.94	39	NE	6	T	29.74	- .20	37	36	- 7	NNE	7	og	5	44	35	0.15
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## 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. visible; unusual transparency.

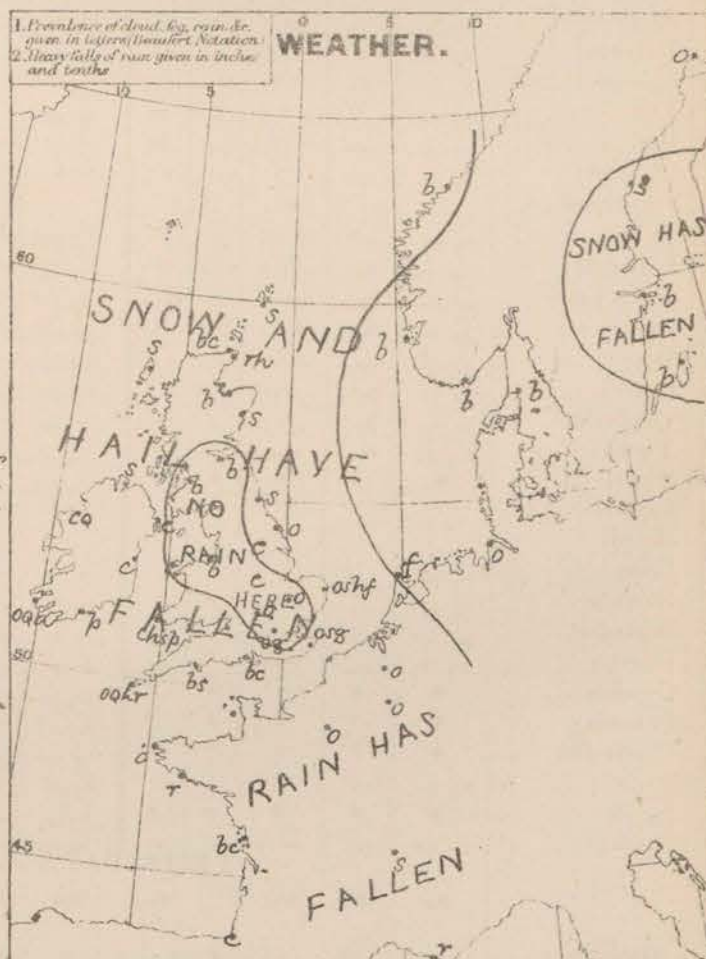
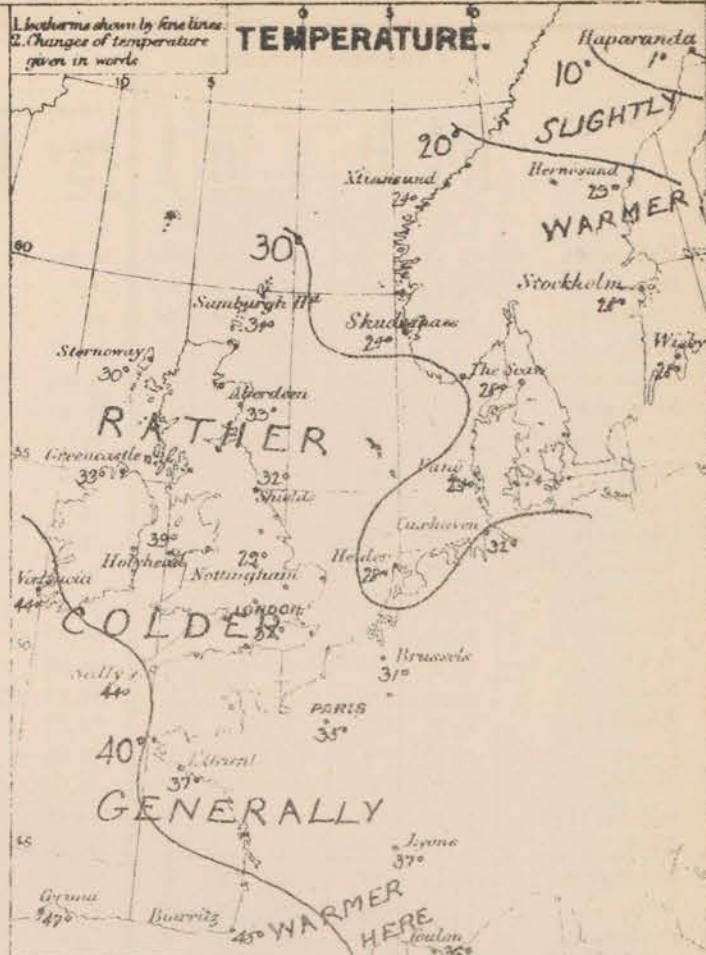
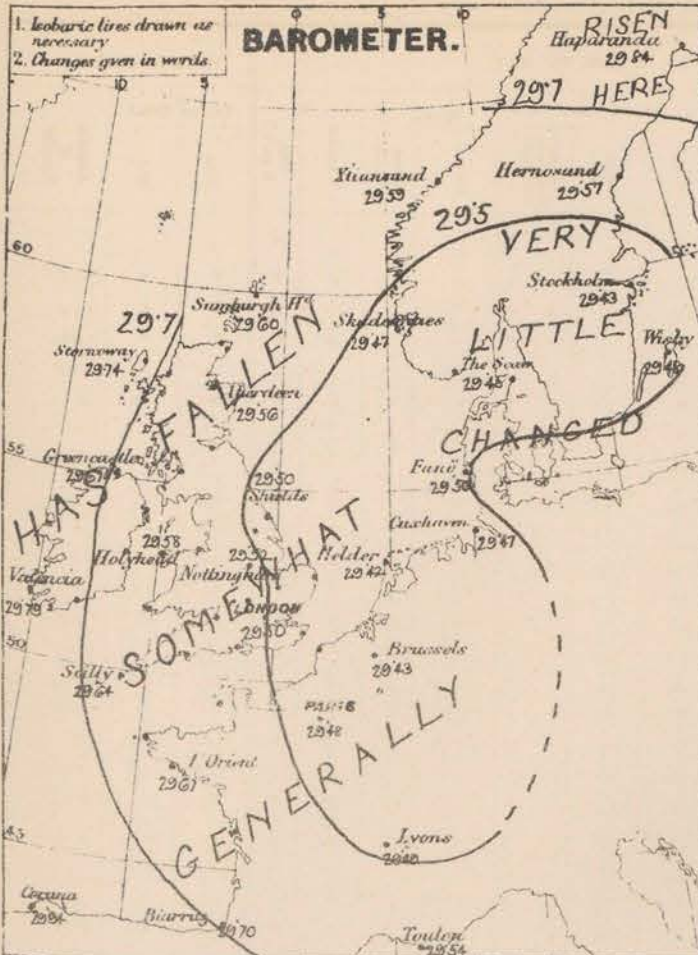
\* AN ASTERISK is inserted in all places for which information is not usually received.

† 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 8<sup>th</sup> DEC<sup>r</sup> 1873.



**REMARKS.** Weather is clear and bright in the western and southern parts of Scandinavia, but cloudy and very unsettled in nearly all other places; snow and hail are falling in the east, north and south-west of the United Kingdom, and rain at some of the French stations. Snow, hail or rain has fallen in most places since yesterday, and snow, east coasts the amounts measured this morning are heavy. Temperature has fallen a few degrees, and is low generally; the thermometer at present stands at the freezing point or a degree or two lower at nearly all the British and Scotch stations, while in France it is below 40°. Wind is generally N. or N.W. on our Islands but on the eastern shores of the North Sea it is more variable in direction; a fresh N. gale is blowing at Lally and a moderate NNE gale at Mullaghmore, while at many of our western stations fresh winds are reported, but in the east the breezes are light or moderate in force. A strong gale from NNE was experienced at Lally yesterday. Sea is rough at Lally, rather so at Valentia and Shields, moderate or slight elsewhere.

**Barometrical Indications.** The barometer is falling generally and rather uniformly. The general distribution of pressure is not much altered, readings being highest to the W. of us, while a large area of low pressure, with three or four minima, lies over the south of Scandinavia, the North Sea, the Netherlands and the east of France. Gradients are generally moderate.

**Warnings.** The morning signals are still up on our south-west coasts.

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Meteorological Office

R. H. SCOTT.

116, Victoria Street, Westminster, S.W.

Secretary



# DAILY WEATHER REPORT

DEC 9<sup>TH</sup>

1878.

	† YESTERDAY EVENING.						8 A.M. TO DAY										FAVORABLE HOURS		
STATIONS.	Barometer at 32° F. and Sea Level.	Temp. in shade.	WIND.		Weather.	B.OMETER.		SHADE TEM.			WIND.		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).		Wet.	Max.	Min.	Amount of Rainfall.		
Haparanda	29.69	21	NNW	4	8	29.67	-17	26	26	+25	Z	0	0	*	?	1	0.28		
Hernösand	29.57	27	N	2	0	29.80	+23	24	23	+1	Z	0	0	*	*	*	0.35		
Stockholm	29.59	39	Z	0	0	29.83	+40	20	20	-8	Z	0	f	*	*	*	-		
Wisby	29.61	28	SW	2	6	29.75	+27	30	29	+2	ESE	4	0	*	*	*	-		
Christiansund	29.60	24	ESE	1	6	29.68	+09	23	22	-1	ESE	3	6	3	25	16	-		
Skudesnaes	29.71	30	ESE	2	0	29.68	+19	32	29	+8	SE	6	0	4	25		-		
Oxö (Xtiansand)	29.55	24	NNW	4	6	29.69	+20	24	23	-6	N	4	6	2	36	21	-		
Skagen (The Scaw)	29.58	28	WST	2	6	29.70	+25	30	29	+2	E	4	0	4	32	16	-		
Fanö	29.82	24	E	3	6	29.60	+10	28	28	+4	ENE	2	0	*	28	19	-		
Cuxhaven	29.57	32	SE	1	0	29.57	+10	33	32	+1	S	1	0	*	?	30	-		
Sumburgh Head	29.61	33	NNE	4	8	29.65	+05	31	30	-3	NNE	3	0	3	34	28	0.25		
Stornoway	29.74	34	NNE	6	esp	29.74	00	34	33	+4	NNE	5	6c	6	38	30	0.02		
Thurso	29.67	37	NNE	2	6c	29.68	+03	37	36	0	N	3	0	4	39	34	0.14		
Wick	29.62	33	N	4	0	29.67	00	31	30	-4	NNW	1	6	1	37	29	0.07		
Nairn	29.70	33	NNW	3	0	29.69	+03	33	32	+2	NNW	2	0	2	35	30	0.05		
Aberdeen	29.59	33	NNW	3	8	29.64	+08	33	32	0	NNW	3	8	3	34	30	0.27		
Leith	29.62	35	NNE	2	6	29.68	+07	31	30	0	N	2	0	*	41	30	-		
Shields	29.57	33	N	3	0	29.64	+14	31	30	-1	NNW	2	8	4	37	28	0.54		
Scarborough	29.54	36	ENE	2	6c	29.60	+12	33	33	+1	NN	2	8	2	36	32	0.64		
York	29.57	31	N	1	6	29.63	+13	29	29	-4	N	1	6	*	35	28	-		
Nottingham	29.58	32	N	2	0	29.66	+14	22	22	-7	SW	1	6c	*	34	22	-		
Ardrossan	29.68	33	NNW	2	6	29.67	+05	33	32	+1	N	1	0	0	40	31	-		
Greencastle	29.73	36	NNE	2	6	29.69	+02	38	35	+5	NE	2	0	*	39	32	0.27		
Donaghadee	29.71	38	NNE	5	6	29.70	+06	38	35	0	NE	5	0	4	39	33	-		
Kingstown	29.72	33	NNW	4	0	29.70	+05	32	31	-2	NNW	4	6c	4	36	30	-		
Holyhead	29.63	39	NNE	5	6c	29.65	+07	34	33	-5	SSE	2	6	1	40	33	0.11		
Liverpool (Midston)	29.62	34	N	2	0	29.65	+10	30	29	-2	NNE	1	m	1	36	30	-		
Valencia	29.86	38	NE	4	6c	29.83	+04	37	35	-7	N	2	0	2	45	34	0.17		
Roche's Point	29.75	35	N	5	6	29.80	+07	34	32	-3	N	3	6c	3	40	32	-		
Pembroke	29.63	35	NNE	2	6	29.69	+08	37	35	+5	NN	3	0	2	38	27	0.09		
Portishead																			
Scilly	29.60	37	NNE	9	0	29.75	+11	41	37	-3	N	5	0	5	44	34	0.30		
Plymouth	29.58	33	NNE	1	6	29.71	+13	26	26	-7	NE	2	6	*	39	26	-		
Hurst Castle	29.52	35	NNE	3	0	29.66	+12	30	28	-1	NN	2	6	2	35	27	-		
Dover	29.45	34	N	4	0	29.61	+16	30	29	-3	NNW	3	6c	1	35	30	0.12		
London	29.52	33	N	2	0	29.64	+14	30	29	-2	NNW	2	6c	*	34	30	-		
Oxford	29.58	33	Z	0	0	29.66	+12	28	28	-8	Z	0	m	*	33	26	-		
Cambridge	29.54	32	NNW	2	0	29.63	+14	30	30	-2	NNW	1	0	*	34	24	-		
Yarmouth	29.47	36	NNE	3	6c	29.56	+10	31	31	-0	N	2	sf	3	36	28	0.17		
The Helder	*	*	*	*	*	29.64	+12	31	30	+3	NN	1	6c	*	*	0	-		
Cape Gris Nez	29.47	32	NE	1	0	29.64		32	32		NNW	1	0	1	37	25	0.55		
Jersey																			
Brest	29.60	43	NE	1	6	29.75	+09	36	32	-1	N	2	6c	3	45	30	0.28		
L'Orient	29.56	37	NN	2	0	29.74	+07	36	34	-1	NNW	3	6c	2	39	30	0.08		
Roche fort	29.56	45	ENE	2	0	29.72	+12	32	30	-5	NNE	3	6c	2	46	34	0.08		
Biarritz	29.56	48	N	7	0	29.74	+04	37	34	-8	SE	1	0	5	50	34	0.47		
Corunna	*	*	*	*	*										*	*	*		
Brussels	*	*	*	*	*	29.67	+24	28	28	-3	SW	1	f	*	32	28	-		
Charleville	*	*	*	*	*	29.53	+12	28	0	-1	WST	1	0	0	*	*	*		
Paris	29.46	34	NE	2	0	29.63	+15	33	32	-2	NE	1	0	*	*	*	0.08		
Lyons	*	*	*	*	*	29.66	+17	37	*	0	NN	?	0	*	*	*	*		
Toulon	29.52	36	NN	5	6c	29.56	+04	32	28	-4	NN	5	6	5	39	32	-		
YESTERDAY'S 2 P.M. REPORTS AND REMARKS.																			
	Bar.	Dry.	Wet.	Wind.	Wet.	Sea.		Bar.	Dry.	Wet.	Wind.	Wet.	Sea.						
Skudesnaes	29.49	26	24	Z	0	6	1	Valencia											
Thurso								Scilly											
Scarborough								London					*						
Greencastle							*	Roche fort	29.58	41	39	NNW	3	0	3				
Holyhead																			
Mullashmore	29.80	36	NNE	5	6c	29.75	+01	36	36	-1	WST	5	0	4	38	33	0.06		

## 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.

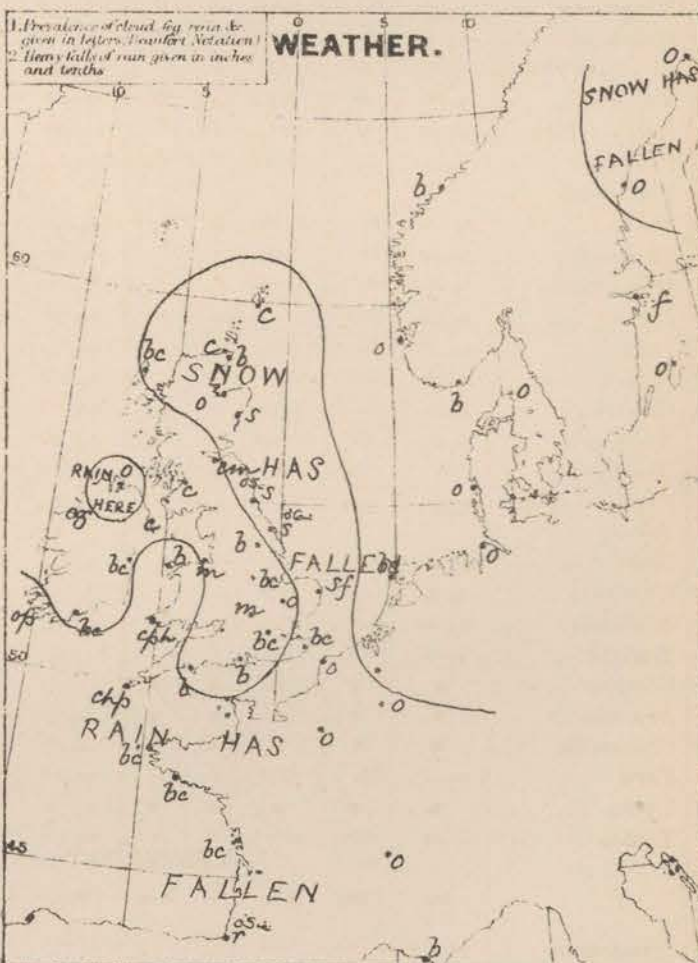
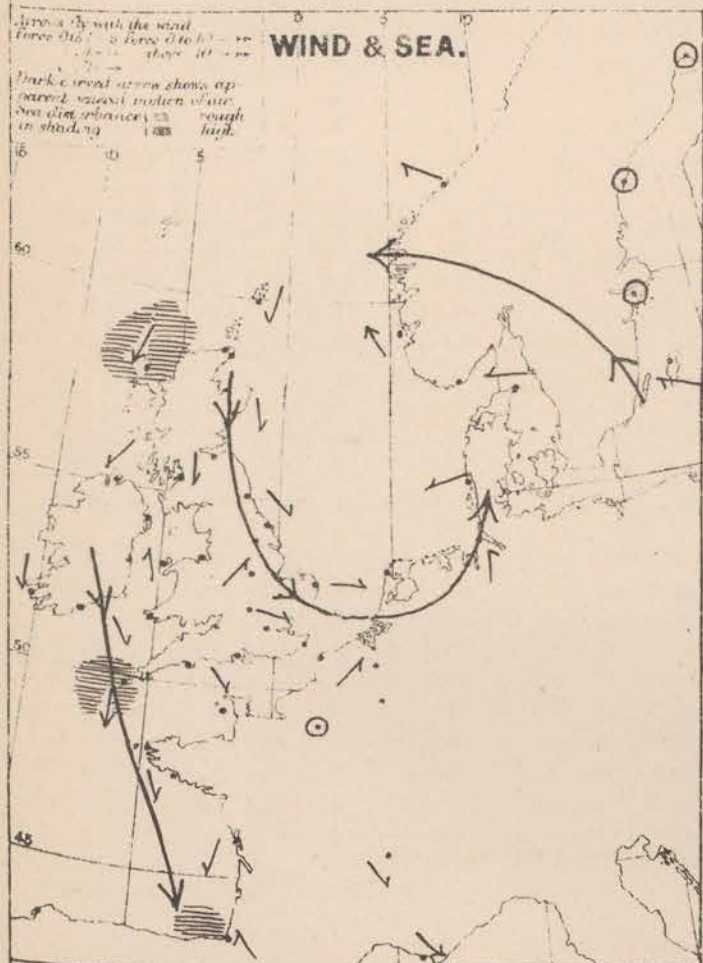
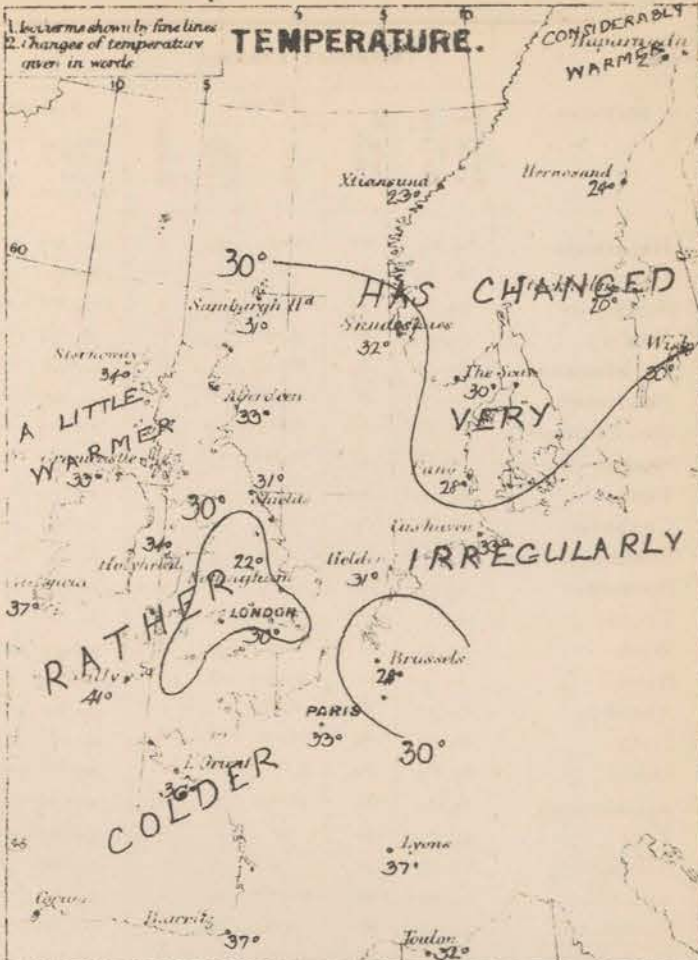
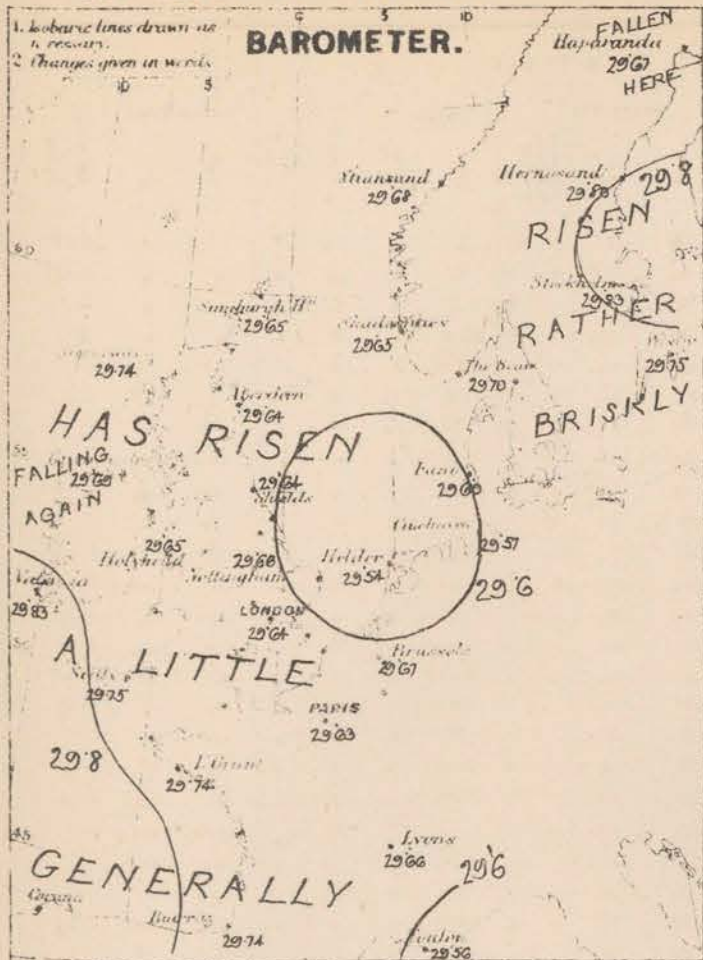
\* AN ASTERISK is inserted in all places for which information is not usually received.

† 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 Monday 9<sup>TH</sup> DEC<sup>R</sup> 1876*



**REMARKS.** Weather in our Islands is fine in most places but snow is reported all along our north eastern and eastern coasts, with hail shown in the south west. In London the sky is moderately clear but the clouds are increasing in quantity. Snow fell yesterday at several of our coast stations - heavily in the north east of England. Temperature has again fallen in our Islands and France, and is as low as 22° at Nottingham, 26° at Plymouth, 28° at Oxford, 29° at York and 30° at Cambridge and in London. In the north of Sweden it has risen rapidly but is still several degrees below the freezing point. Wind is light from the NW over the major part of S. Britain and France, E to SE in Scandinavia, variable in Ireland. At Mullaghmore it has backed to NW and is fresh. Sea is moderate or slight in most places, rather rough at Lilly.

Barometrical Indications. The distribution of pressure this morning is somewhat peculiar. Readings are (relatively) high off our south west coasts, off our northern coasts and over Mexico; a depression lies over the southern parts of the North Sea and another one is apparently advancing towards the north of Ireland from the Atlantic, as the barometer is falling somewhat decidedly in that region, and the wind has backed (as noted above).

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

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



# DAILY WEATHER REPORT DEC 10<sup>th</sup> 1878.

STATIONS.	† YESTERDAY EVENING.						8 A.M. TO DAY.										PART 24 HOURS.		
	Barometer at 320 ft. Sea Level.	Temp. in shade.	WIND.		Weather.	Reading at 320 ft. Sea Level.	Barometer.		SHADE TEMP.			WIND.		Weather.	Sea. (0 to 9.)	SHADE TEMP.		Amount of Rainfall.	
			Dir.	Force. (0 to 12).			Difference from 8 a.m. yesterday.	Dry.	Wet.	Difference from 8 a.m. yesterday.	Dir.	Force. (0 to 12).	Max.			Min.			
Haparanda	30.01	21	Z	0	0	20.08	+ .41	0	0	- 26	Z	0	0	*	?	- 2	-		
Hernösand	30.14	1	Z	0	0	30.16	+ .36	- 2	- 2	- 26	Z	0	f	*	*	*	-		
Stockholm	29.94	29	NE	4	S	29.88	+ .05	28	28	+ 8	NNE	6	0	*	*	*	0.04		
Wisby	29.85	33	E	4	0	29.76	+ .01	35	32	+ 5	ENE	6	0	*	*	*	0.08		
Christiansund	29.94	21	SE	1	0	30.02	+ .34	26	24	+ 3	SE	1	0	3	27	16	-		
Skudesnaes	29.88	32	E	6	0	29.99	+ .34	33	29	+ 1	NE	2	0	2	?	32	-		
Oxö (Ålön)	29.84	30	NE	6	S	29.92	+ .23	30	28	+ 6	NNE	6	0	4	30	?	-		
Skagen (The Seal)	29.84	32	ENE	4	0	29.90	+ .20	32	30	+ 2	NE	6	0	5	34	27	-		
Fanö	29.78	30	ENE	1	0	29.79	+ .19	30	30	+ 2	N	2	0	*	32	27	-		
Cuxhaven	29.69	33	SE	1	0	29.77	+ .20	35	35	+ 2	N	2	0	*	?	30	-		
Sumburgh Head	29.76	35	NNE	5	0	30.02	+ .37	35	32	+ 4	E	3	0	3	37	29	0.10		
Sornoway	29.83	35	N	2	0	29.98	+ .24	33	32	- 1	E	1	0	2	36	30	0.20		
Thurso	29.79	39	N	3	0	30.00	+ .32	37	36	0	ENE	2	0	3	40	34	0.02		
Wick	29.77	37	ENE	4	0	29.97	+ .30	39	36	+ 8	E	4	0	5	39	26	0.09		
Nairn	29.77	34	NNW	2	0	29.95	+ .26	30	30	- 3	NE	1	0	3	34	27	0.12		
Aberdeen	29.69	33	N	3	0	29.90	+ .26	30	30	- 3	SE	1	0	2	34	29	0.29		
Leith	29.72	34	NNW	2	0	29.87	+ .24	34	34	+ 3	NE	3	0	*	41	30	0.17		
Shields	29.71	31	N	2	0	29.85	+ .21	30	29	- 1	Z	0	sf	3	33	27	0.23		
Scarborough	29.69	32	NNW	1	0	29.84	+ .24	30	?	- 3	NNW	1	0	2	35	28	0.18		
York	29.68	28	N	1	0	29.84	+ .21	25	25	- 4	N	1	0	*	33	21	-		
Nottingham	29.71	28	Z	0	0	29.84	+ .18	20	20	- 2	Z	0	0	*	34	18	-		
Ardrossan	29.74	33	ENE	1	0	29.88	+ .21	31	30	- 2	NE	2	0	1	39	29	-		
Greenacastle	29.76	34	NNE	2	0	29.87	+ .18	35	32	- 3	NE	2	0	*	40	31	0.02		
Donaghadee	29.77	35	NE	3	0	29.86	+ .16	36	34	- 2	ENE	5	0	3	39	34	-		
Kingstown	29.76	34	NNW	3	0	29.84	+ .14	32	30	0	NNW	4	0	4	37	29	0.04		
Holyhead	29.72	33	N	1	0	29.78	+ .13	33	32	- 1	S	1	0	0	38	31	-		
Liverpool (Midston)	29.71	31	NNE	1	0	29.82	+ .17	25	25	- 5	ESE	1	0	1	36	25	-		
Valencia	29.80	36	NE	2	0	29.94	+ .11	32	31	- 5	NE	1	0	2	41	29	0.06		
Roche's Point	29.76	34	N	4	0	29.87	+ .07	31	30	- 3	N	3	0	3	39	30	-		
Pembroke	29.69	33	NNE	1	0	29.81	+ .12	33	32	- 4	NNW	1	0	2	38	28	0.08		
Portishead																			
Seilly	29.70	36	NNE	6	0	29.79	+ .04	39	36	- 2	NE	6	0	5	42	36	0.05		
Plymouth	29.66	33	NNE	1	0	29.78	+ .07	29	28	+ 3	NNE	4	0	*	37	?	0.03		
Hurst Castle	29.67	30	N	1	0	29.78	+ .12	29	29	- 1	NE	3	0	3	38	25	-		
Dover	29.68	31	N	3	0	29.80	+ .19	27	25	- 3	N	3	0	0	34	26	-		
London	29.69	34	NNW	2	0	29.81	+ .17	29	28	- 1	NNW	1	0	0	35	26	-		
Oxford	29.70	28	Z	0	0	29.83	+ .17	25	?	- 3	Z	0	0	*	35	24	-		
Cambridge	29.68	31	N	1	0	29.85	+ .22	19	18	- 11	Z	0	0	*	34	18	-		
Yarmouth	29.64	30	NNW	2	0	29.79	+ .23	29	29	- 2	NNW	2	0	3	33	24	0.09		
The Helder	*	*	*	*	*	29.81	+ .27	24	24	- 7	SSE	1	0	*	*	*	-		
Cape Gris Nez	29.69	32	NNW	1	0	29.81	+ .17	27	27	- 5	SE	1	0	0	36	27	-		
Jersey																			
Brest	29.75	41	NNW	1	0	29.72	- .03	32	30	- 4	E	2	0	3	?	30	0.08		
L'Orient	29.73	37	NNW	1	0	29.69	- .05	32	30	- 4	E	4	0	3	41	28	0.04		
Rochefort	29.80	46	SE	2	0	29.65	- .07	32	30	0	SE	5	0	3	48	28	-		
Biarritz	29.80	45	SSE	2	0	29.62	- .12	41	36	+ 4	SSE	4	0	4	46	34	0.12		
Corunna	*	*	*	*	*										*	*	*		
Brussels	*	*	*	*	*	29.84	+ .17	27	?	- 1	SW	4	0	*	33	27	-		
Charleville	*	*	*	*	*	?	+ .27	24	*	- 4	NNW	1	0	*	*	*	*		
Paris	29.75	29	NE	2	0	29.86	+ .23	29	29	- 4	NN	1	0	*	*	*	-		
Lyons	*	*	*	*	*	29.96	+ .30	36	*	- 1	N	2	0	*	*	*	*		
Toulon	29.67	32	NNW	6	0	29.84	+ .28	32	30	0	NNW	2	0	4	39	30	-		

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

	Bar.	Dry.	Wet.	Wind.	Wea.	Sea.		Bar.	Dry.	Wet.	Wind.	Wea.	Sea.		
Skudesnaes ...	29.79	32	28	E	6	bc	4	Valencia .....	29.75	39	37	NNE	3	cp	4
Thurso .....	29.78	39	38	N	3	bc	4	Scilly .....	29.70	40	37	N	5	o	5
Scarborough ...	29.68	33	32	WSW	1	c	2	London .....	29.65	38	32	WNW	2	bc	*
Mullaghmore ...	29.77	37	36	N	4	opst	4	Rochefort ...	29.76	41	39	NE	2	o	3
Holyhead .....	29.67	36	35	NE	2	o	1								

Pressure is changing irregularly. It is decreasing rather decidedly in the SW. of our Islands, but increasing elsewhere. No other change of importance is noted.

Mullaghmore 29.79 39 NNE 5 0 29.89 + .06 39 ? + 3 NNE 5 0 3 40 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.

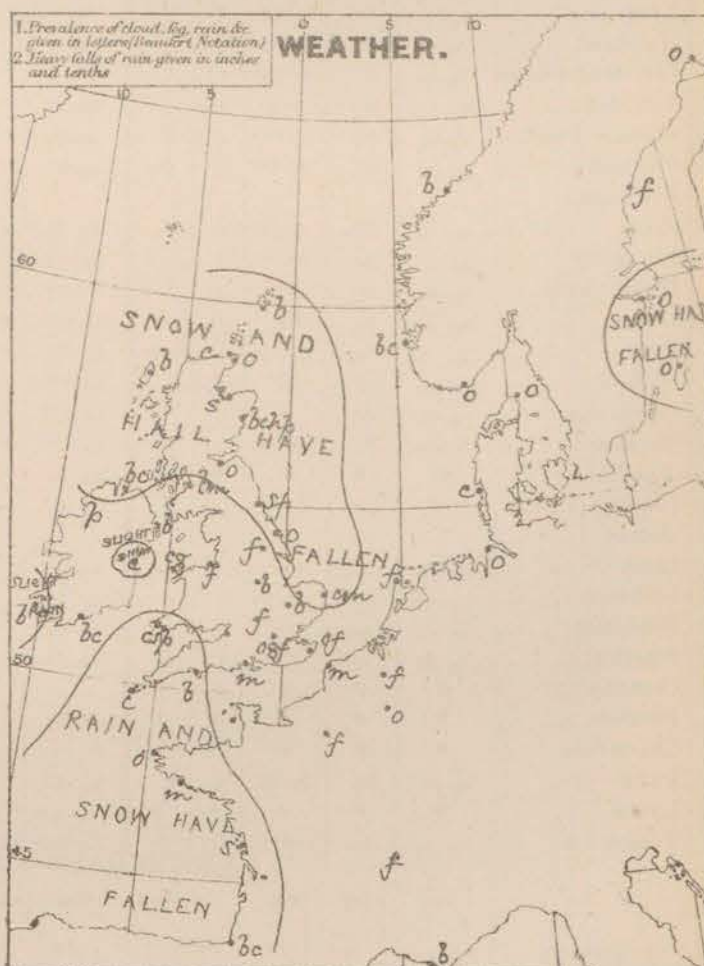
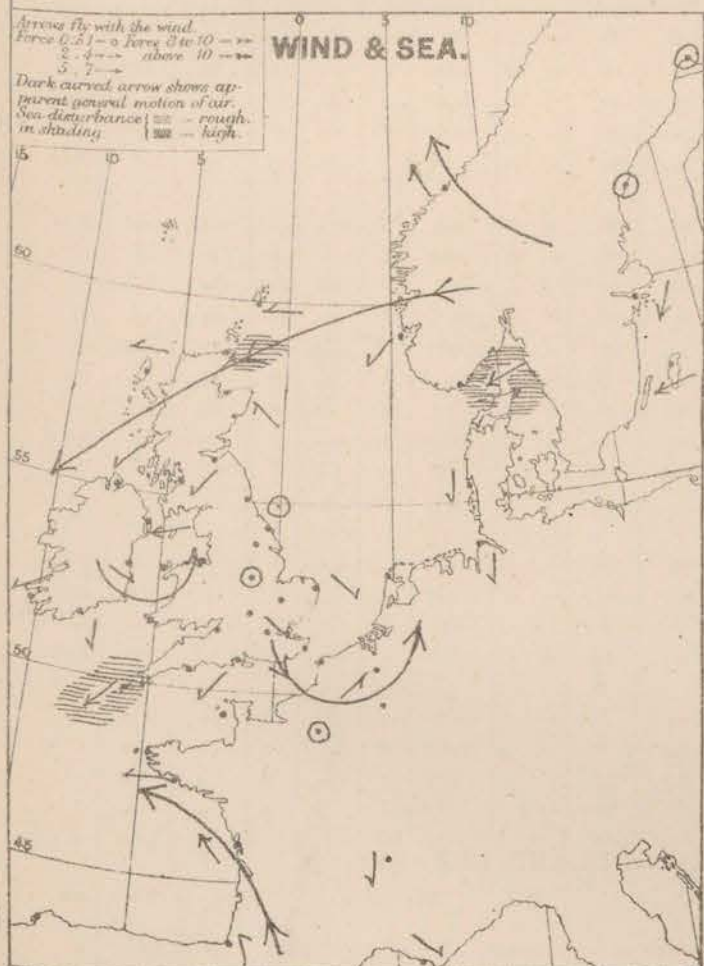
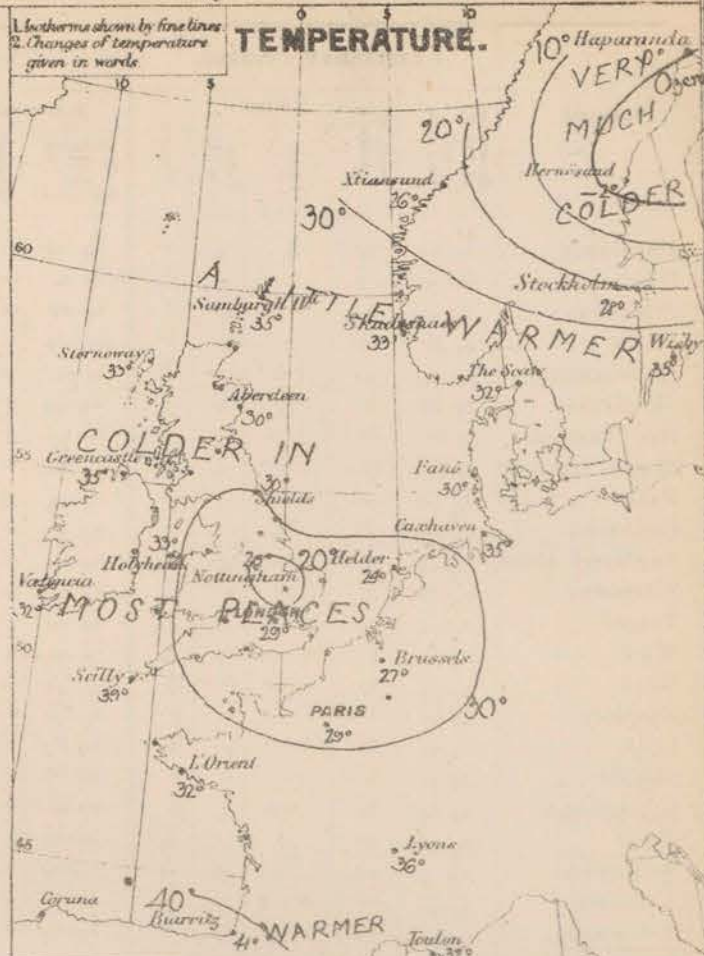
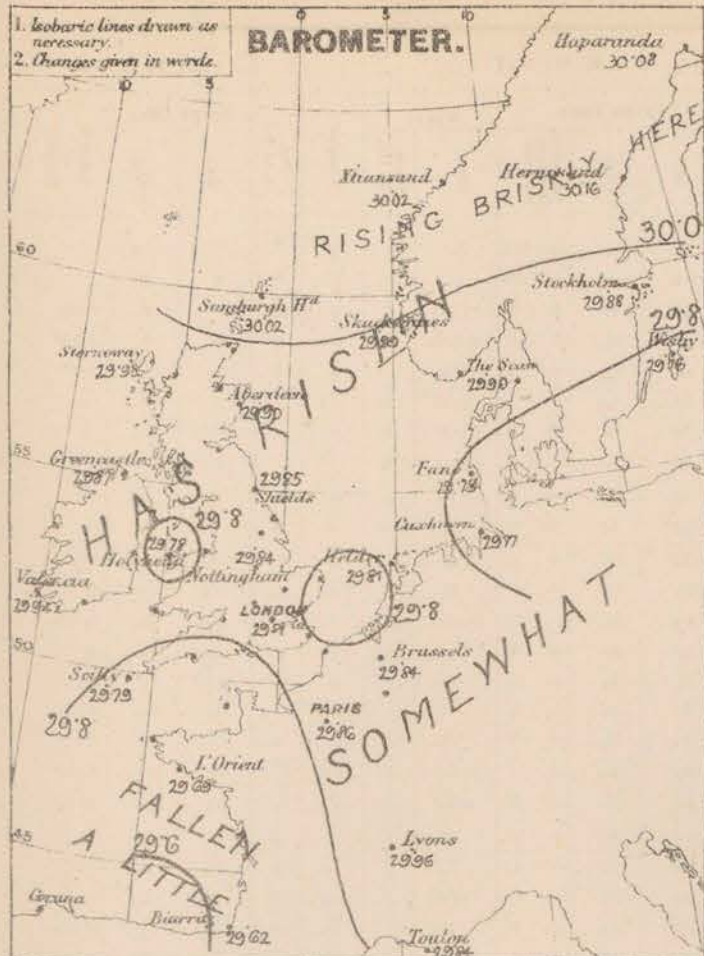
\* AN ASTERISK is inserted in all places for which information is not usually received.

† 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 Tuesday 10<sup>TH</sup> DEC<sup>R</sup> 1878.



**REMARKS.** Weather over the United Kingdom this morning is very variable. Clear sky is reported in the Netherlands, Heligoland, the south of Ireland and several parts of England; dense fogs prevail in other places (notably in London) moderate showers in others, while snow and hail storms prevail at Kairi, Aberdeen, Shields and Pembroke as well as at Rookefort. Temperature has again decreased in our Islands, and is as low as 19° at Cambridge, 20° at Nottingham, 25° at York, Liverpool and Oxford and 29° at Plymouth, Harve Castle and in London. In London the thermometer has fallen very rapidly and is down to zero Fahrenheit at Heparanda, and minus 2° F. at Harpenden. Wind is NE<sup>ly</sup> in most parts of the United Kingdom, and blows rather fresh in the west. Over Central England, however, calms and local NNE winds are reported, while in the Bay of Biscay the wind is moderate from E. and SE. Sea is rather rough at Wick and Sully, moderate or slight elsewhere.

Barometrical Indications. Since yesterday the barometer has risen over all parts of our Islands, the North Sea, Denmark and Scandinavia, and readings vary from 30.16 in. at Helsingør to 30.62 in. at Birsitz. A depression lies over the Bay of Biscay and another (small one) over the Irish Sea, a third off the mouth of the Thames and a fourth over North Germany and the Baltic.



# DAILY WEATHER REPORT

DEC 11<sup>th</sup>

1878.

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	30.03	15	Z	0	0	29.94	-.14	19	19	+ 19	E	4	0	*	19	0	-	
Hernösand	30.00	6	N	6	0	29.79	-.37	16	?	+ 18	N	8	0	*	*	*	-	
Stockholm	29.60	29	NNE	7	0	29.38	-.50	30	29	+ 2	N	6	8	*	*	*	0.02	
Wisby	29.80	35	NE	9	1	29.32	-.44	35	34	0	NNE	9	1	*	*	*	0.16	
Christiansund	30.00	26	SE	2	0	29.90	-.12	24	22	- 2	ESE	1	0	3	27	18	-	
Skudesnaes	29.98	26	Z	0	0	29.84	-.15	28	26	- 5	NNW	5	0	2	?	25	-	
Oxö (Xtiansand)	29.93	31	NNE	4	0	29.80	-.12	23	21	- 7	NNW	4	0	2	32	21	-	
Skagen (The Scaw)	29.86	31	NNE	5	0	29.72	-.18	30	28	- 2	N	6	0	6	34	23	-	
Fanö	29.83	22	N	1	0	29.76	-.03	24	24	- 6	N	2	0	*	32	19	-	
Cuxhaven	29.79	37	NE	3	0	29.75	-.02	33	33	- 2	NNE	4	0	*	?	30	-	
Sumburgh Head	30.06	27	NNW	1	0	29.92	-.10	34	33	- 1	NNE	3	5	3	39	24	0.13	
Stornoway	30.00	33	NE	1	0	30.01	+ .03	32	32	- 1	Z	0	0	0	36	30	-	
Thurso	?	34	ESE	1	0	30.01	+ .01	25	25	- 12	S	1	bcw	2	38	24	0.04	
Wick	29.95	38	NE	4	0	30.00	+ .03	26	26	- 13	SW	1	0	2	39	22	0.08	
Nairn	30.02	30	Z	0	0	30.03	+ .08	23	23	- 7	Z	0	0	2	35	?	-	
Aberdeen	29.98	35	Z	0	0	30.02	+ .12	21	21	- 9	W	1	0	2	35	21	0.09	
Leith	29.95	35	NNW	1	0	30.00	+ .13	31	30	- 3	W	1	bcw	*	36	30	0.18	
Shields	29.94	30	N	2	5	29.96	+ .11	37	36	+ 7	ENE	1	bc	3	37	28	0.22	
Scarborough	29.90	32	NNW	1	0	29.91	+ .07	37	36	+ 7	N	1	0	2	39	28	0.14	
York	29.92	23	N	1	0	29.94	+ .10	28	28	+ 3	N	1	bc	*	29	21	0.05	
Nottingham	29.93	28	Z	0	0	29.92	+ .02	32	32	+ 12	N	1	5	*	32	19	-	
Ardrossan	29.97	30	NE	2	0	30.03	+ .15	27	?	- 4	SE	1	bc	0	35	26	-	
Greenecastle	29.96	35	N	2	bc	30.02	+ .15	28	27	- 7	W	1	0	*	40	26	0.04	
Donaghadee	29.97	38	ENE	3	0	30.03	+ .17	37	35	+ 1	ENE	4	0	3	38	29	-	
Kingstown	29.91	38	ENE	5	0	29.99	+ .15	31	30	- 1	NNW	4	bc	4	38	28	0.12	
Holyhead	29.90	35	ENE	3	0	29.95	+ .17	32	32	- 1	E	1	5	0	36	29	-	
Liverpool (Hidston)	29.92	29	E	1	f	29.95	+ .13	28	27	+ 3	NNW	1	bc	1	32	25	-	
Valencia	29.95	36	NE	4	0	29.97	+ .03	34	31	+ 2	ENE	2	bcw	3	42	28	0.04	
Roche's Point	29.91	34	NNE	3	0	29.96	+ .09	28	27	- 3	NNE	3	0	3	35	26	0.08	
Pembroke	29.86	31	ENE	3	0	29.95	+ .14	27	26	- 6	NE	1	0	1	37	?	-	
Portushead	?	?	?	?	?	?	?	?	?	?	?	?	?	?	?	?	?	
Scilly	29.81	39	E	2	0	29.84	+ .05	36	33	- 3	NE	5	bc	4	42	32	0.21	
Plymouth	29.82	29	NE	2	0	29.90	+ .12	27	26	- 2	NE	2	0	*	37	23	-	
Hurst Castle	29.83	29	NE	3	bc	29.86	+ .08	32	31	+ 3	NE	3	mv	3	?	25	-	
Dover	29.85	29	N	2	0	29.84	+ .04	31	30	+ 4	NNW	3	ofs	1	36	?	-	
London	29.88	31	ENE	1	ong	29.87	+ .06	29	28	0	NNW	1	ofs	*	31	27	-	
Oxford	29.91	25	NE	1	f	29.92	+ .09	26	26	+ 1	Z	0	f	*	27	22	-	
Cambridge	29.87	27	?	1	f	29.89	+ .04	28	28	+ 9	N	1	ors	*	33	18	-	
Yarmouth	29.84	35	ENE	3	0	29.83	+ .04	37	36	+ 8	ENE	4	0	4	37	27	0.11	
The Helder	?	?	?	?	?	29.84	+ .03	35	32	+ 11	NE	1	bc	*	?	?	-	
Cape Gris Nez	?	25	?	1	f	29.84	+ .03	21	21	- 6	SSE	1	f	0	30	19	-	
Jersey	?	?	?	?	?	?	?	?	?	?	?	?	?	?	?	?	?	
Brest	29.79	41	NE	3	0	29.83	+ .11	30	28	- 2	E	2	bc	3	41	27	-	
L'Orient	29.76	36	ENE	3	mv	29.84	+ .15	27	27	- 5	ENE	3	0	2	?	25	-	
Rochefort	29.83	39	SE	7	5	29.76	+ .11	28	27	- 4	NE	5	bc	3	46	27	0.47	
Biarritz	29.84	46	SW	6	1	29.78	+ .16	45	39	+ 4	NNW	5	0	5	48	37	0.32	
Corunna	?	?	?	?	?	?	?	?	?	?	?	?	?	?	?	?	?	
Brussels	?	?	?	?	?	29.83	- .01	26	?	- 1	NNE	1	f	*	30	26	-	
Charleville	?	?	?	?	?	29.74	?	21	?	- 3	ENE	3	0	*	?	?	?	
Paris	29.86	28	NE	2	0	29.82	- .04	25	24	- 4	NE	1	mv	*	?	?	-	
Lyons	?	?	?	?	?	29.64	- .32	35	?	- 1	NE	4	5	*	?	?	?	
Toulon	29.74	39	S	4	0	29.58	- .26	34	32	+ 2	E	5	1	4	41	30	0.39	

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

	Bar.	Dry.	Wet.	Wind.	Woa.	Sea.		Bar.	Dry.	Wet.	Wind.	Woa.	Sea.		
Skudesnaes ...	29.99	30	29	NNE	2	bc	2	Valencia .....	29.92	41	39	NE	3	osp	4
Thurso .....	30.04	37	37	SSE	1	sf	3	Scilly .....	29.81	40	37	NNW	6	apb	4
Scarborough ...	29.89	34	?	NNW	1	0	1	London .....	29.86	29	28	Z	0	offg.	*
Mullaghmore ...	29.93	35	34	NE	5	0	3	Rochefort ...	29.81	32	30	SE	6	s	4
Holyhead .....	29.86	35	34	ENE	4	0	3								

*No important change*

Mullaghmore	29.98	33	ESE	2	0	30.05	+ .16	31	31	- 8	E	2	0	2	39	?	-
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## EXPLANATION OF COLUMNS.

**WEATHER.**—Beaufort Scale is, b. blue sky; c. detached clouds; d. drizzling rain; f. fog; g. dark, gloomy; h. hail; i. 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

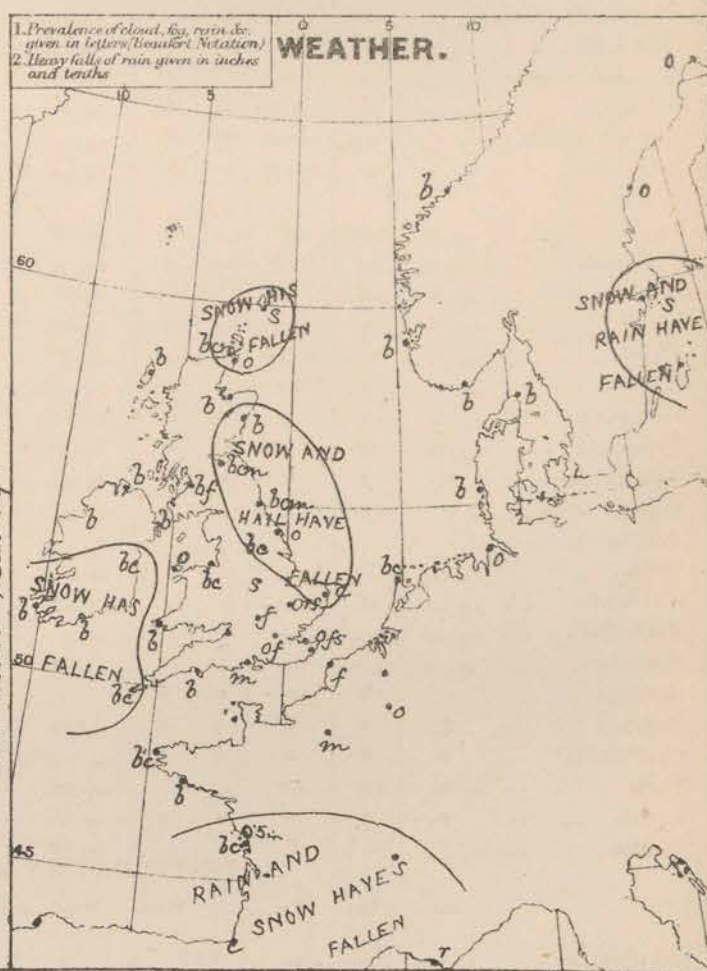
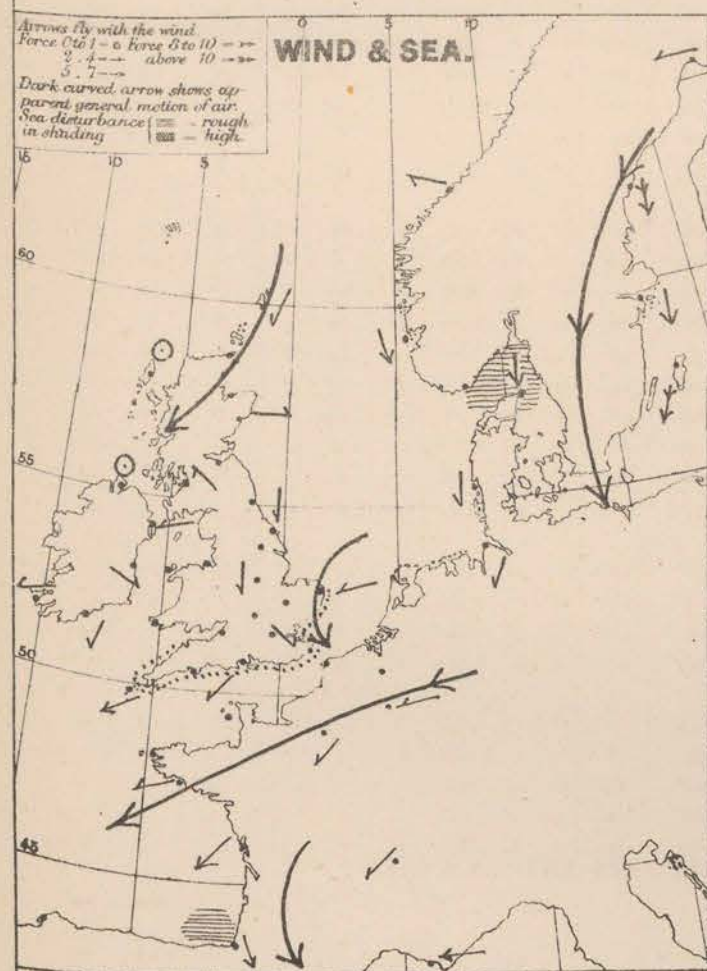
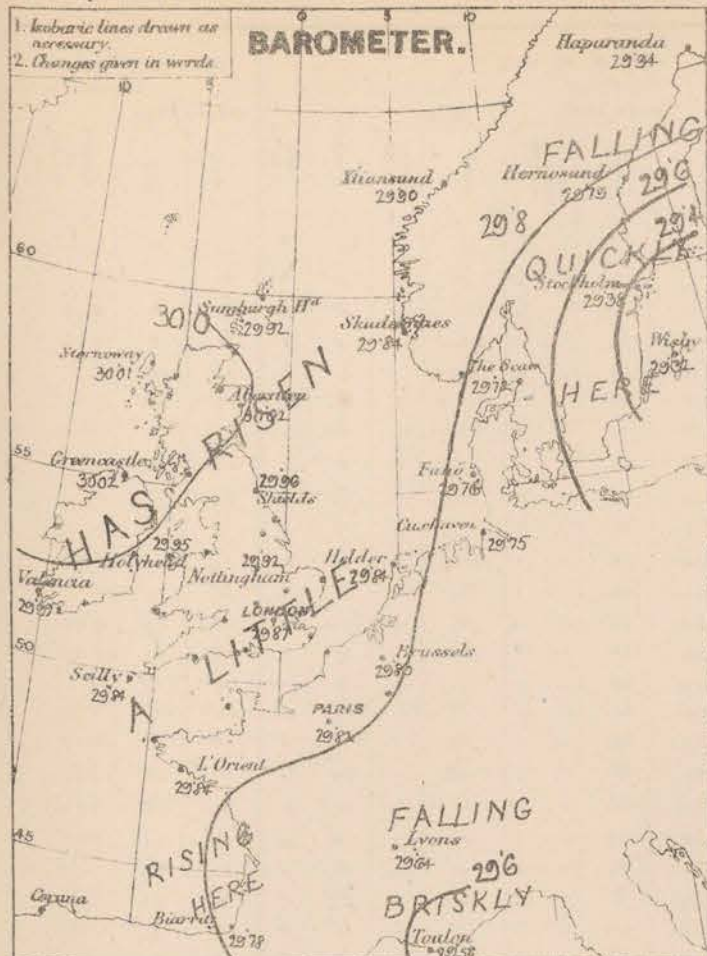
\* AN ASTERISK is inserted in all places for which information is not usually received.

† 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 11<sup>TH</sup> DEC<sup>R</sup> 1873.



**REMARKS.** Weather this morning is fine over the greater part of the British Isles but fog and haze still prevail in the south east, and snow is falling at several of our inland stations. A good deal of snow fell again in the north east yesterday, and some showers in several other localities. Temperature is changing irregularly. It has risen several degrees in the north east and east of England, but fallen in the south west and over France, and continues low generally. The readings this morning are 21° to 25° over Scotland, 26° at Oxford, 27° at Plymouth, 28° at York, Liverpool and Cambridge and 29° in London. Wind is calm in Scotland, light to moderate from NE over Ireland, England and France, fresh from N. in Denmark and the south of Norway, and blows a gale from N in the Baltic. Sea is moderate at Yarmouth and Hull, slight or smooth on our other coasts, but rough in the Skagerrack.

**Barometrical Indications.** Pressure is very steady in our Islands but during the past 24 hours a depression has travelled E. from the Bay of Biscay to the Mediterranean, while a second (and deeper) one has appeared over the Baltic, near Sweden. The mercury has fallen 0.3 in. at Stockholm and 0.3 in. at Lyons.

**Forecasting.** were sent to our south and south east coasts yesterday.

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

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

R. H. SCOTT.  
Secretary



# DAILY WEATHER REPORT

DEC 12<sup>TH</sup>

1878.

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.			
			Dirac.	Force. (0 to 12).			Dry.	Wet.	Difference from 8 a.m. yesterday.	Dirac.	Force. (0 to 12).			Max.	Min.				
Haparanda	29.84	21	N	4	0	29.64	-30	24	23	+5	N	4	0	*	25	18	-		
Hernösand	29.65	20	NNW	8	0	29.43	-36	28	27	+12	N	9	5	*	*	*	0.12		
Stockholm	29.32	33	N	4	5	29.16	-22	27	27	-3	NNW	6	8	*	*	*	0.24		
Wisby	29.25	33	ENE	6	0	29.20	-12	33	33	-2	N	9	0	*	*	*	0.16		
Christiansund	29.79	27	SSE	1	0	29.64	-26	28	26	+4	SE	1	0	2	28	19	-		
Skudesnaes	29.65	26	N	2	0	29.32	-32	26	24	-2	N	2	0	2	28	25	-		
Oxo (Xtiansand)	29.65	24	NNE	4	0	29.56	-24	19	17	-4	NNW	4	0	2	27	16	-		
Skagen (The Seaw)	29.57	31	N	5	0	29.52	-20	31	30	+1	NNW	3	0	4	32	27	-		
Fanö	29.62	21	NNW	1	0	29.58	-18	23	23	-1	SSW	1	0	*	27	19	-		
Cuxhaven	29.69	35	N	3	0	29.64	-11	29	28	-4	SW	1	0	*	?	27	-		
Sumburgh Head	29.75	34	N	2	0	29.64	-28	33	32	-1	NNE	2	0	2	36	30	0.05		
Stornoway	29.85	34	N	4	0	29.67	-32	32	32	0	NE	4	0	4	35	30	0.01		
Thurso	29.82	38	NNW	3	5	29.64	-37	34	34	+9	Z	0	0	3	40	25	0.27		
Wick	29.79	34	NNW	2	0	29.52	-38	34	33	+8	NE	1	0	1	36	24	0.08		
Nairn	29.85	32	Z	0	5	29.65	-38	32	31	+9	Z	0	0	2	35	23	0.18		
Aberdeen	29.81	25	WSW	1	0	29.64	-38	23	22	+2	NNW	1	0	1	32	21	-		
Leith	29.88	30	W	2	0	29.63	-27	33	32	+2	Z	0	0	*	36	28	0.10		
Shields	29.90	31	NW	2	0	29.69	-27	27	26	-10	WSW	1	0	2	40	23	0.06		
Scarborough	29.88	33	N	1	0	29.73	-18	23	?	-14	WSW	2	0	2	39	23	0.03		
York	29.92	28	N	1	0	29.75	-19	17	17	-11	N	1	0	*	29	13	-		
Nottingham	29.90	30	NNW	2	0	29.81	-11	24	24	-8	SW	2	0	*	34	24	0.02		
Ardrrossan	29.91	36	WSW	1	0	29.63	-40	33	32	+6	NE	2	0	1	40	25	0.12		
Greencastle	29.96	30	W	1	0	29.66	-36	36	34	+8	N	2	0	*	36	26	0.40		
Donaghadee	29.96	33	NNE	3	0	29.70	-33	31	31	-6	NNW	3	0	2	39	29	-		
Kingstown	29.99	34	NNW	4	0	29.75	-24	32	30	+1	WSW	2	0	3	34	29	0.15		
Holyhead	29.93	33	ENE	1	0	29.73	-22	36	33	+4	SW	3	0	2	37	30	0.03		
Liverpool (Bidston)	29.93	32	NNW	1	0	29.76	-19	24	23	-4	SSE	1	0	1	33	23	-		
Valencia	30.05	32	NE	2	0	29.77	-20	34	34	0	N	1	0	2	39	26	0.08		
Roche's Point	29.99	32	N	3	0	29.78	-18	31	30	+3	N	3	0	4	34	26	-		
Pembroke	29.92	34	NNE	1	0	29.79	-16	30	30	+3	ENE	1	0	1	35	?	-		
Portishead																			
Seilly	29.92	36	E	2	0	29.83	-81	38	36	+2	N	2	0	2	39	35	0.07		
Plymouth	29.92	30	Z	0	0	29.85	-05	22	21	-5	NE	1	0	*	35	21	-		
Hurst Castle	29.85	32	N	2	0	29.83	-03	30	29	-2	NNE	1	0	2	32	27	-		
Dover	29.79	34	NNW	3	0	29.82	-02	27	26	-4	N	2	0	1	35	27	0.04		
London	29.85	35	NW	2	0	29.84	-03	28	28	-1	SW	1	0	*	35	28	0.02		
Oxford	29.89	30	Z	0	0	29.79	-13	27	26	+1	NNW	1	0	*	32	26	0.02		
Cambridge	29.87	28	N	1	0	29.81	-08	27	27	-1	Z	0	0	*	35	24	0.04		
Yarmouth	29.83	34	NW	1	0	29.80	-03	25	25	-12	NNW	2	0	3	38	24	0.05		
The Helder	*	*	*	*	*	29.72	-12	36	36	+1	NNW	2	0	*	*	*	0.08		
Cape Gris Nez	29.80	34	NNE	1	0	29.84	00	34	34	+13	N	1	0	0	36	21	0.16		
Jersey																			
Brest	29.89	39	N	1	5	29.83	00	32	32	+2	E	2	0	4	39	28	0.04		
L'Orient	29.90	32	NE	1	0	29.88	+04	28	28	+1	NE	2	0	2	34	25	-		
Rochefort	29.85	39	NE	4	0	29.91	+15	23	23	-5	SSE	4	0	3	45	?	-		
Biarritz	29.80	28	SE	3	0	29.83	+05	32	30	-13	E	3	0	3	45	28	0.08		
Corunna	*	*	*	*	*										*	*	*		
Brussels	*	*	*	*	*	29.80	-03	29	29	+3	WSW	2	0	*	30	27	-		
Charleville	*	*	*	*	*	29.80	+06	25	*	+4	SW	1	0	*	*	*	*		
Paris	29.87	29	NE	3	0	29.88	+06	29	29	+4	NE	2	0	*	*	*	-		
Lyons	*	*	*	*	*	30.00	+36	30	*	-5	N	1	0	*	*	*	*		
Toulon	29.62	32	NNW	5	0	29.82	+24	27	23	-7	NNW	6	0	6	37	27	0.20		

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

	Bar.	Dry.	Wet.	Wind.	Wes.	Sea.		Bar.	Dry.	Wet.	Wind.	Wes.	Sea.
Skudesnaes	29.71	26	25	N	2	0	Valencia	30.02	38	33	NNE	3	0
Thurso	29.89	36	36	NNW	2	Sp	Seilly	29.92	39	35	ENE	5	0
Scarborough	29.91	35	34	N	1	0	London	29.85	34	33	NW	1	0
Mullaghmore	30.06	38	36	WSW	1	0	Rochefort	29.87	32	30	NNE	4	0
Holyhead	29.96	36	35	ENE	2	0							

The barometer has begun to fall somewhat decidedly on our NE. coast, and the wind there has backed to the NW. In force, however, it is light and the weather fine except at Thurso. In London snow has been falling during the greater part of the morning.

Mullaghmore	30.01	35	35	WSW	3	0	29.73	-32	38	35	+7	NNW	5	0	38	30	0.26
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## 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.

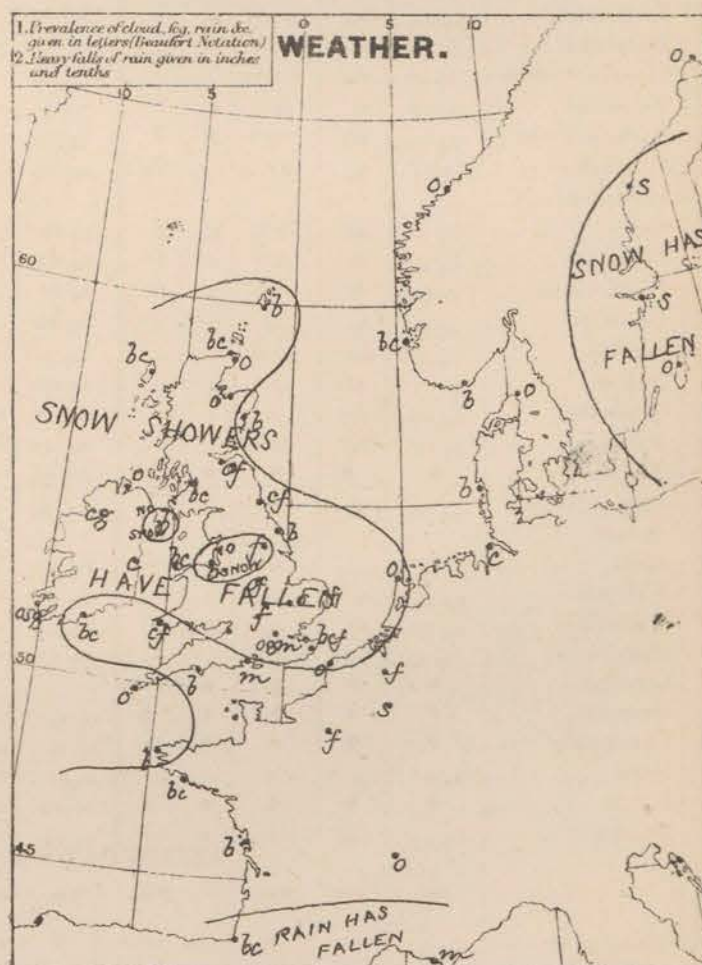
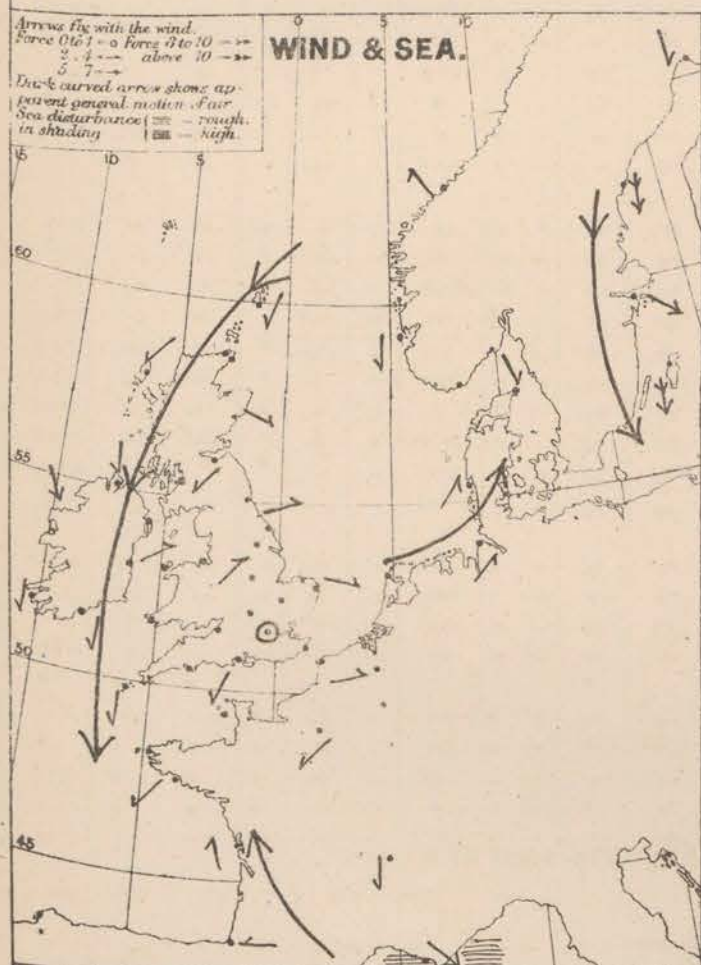
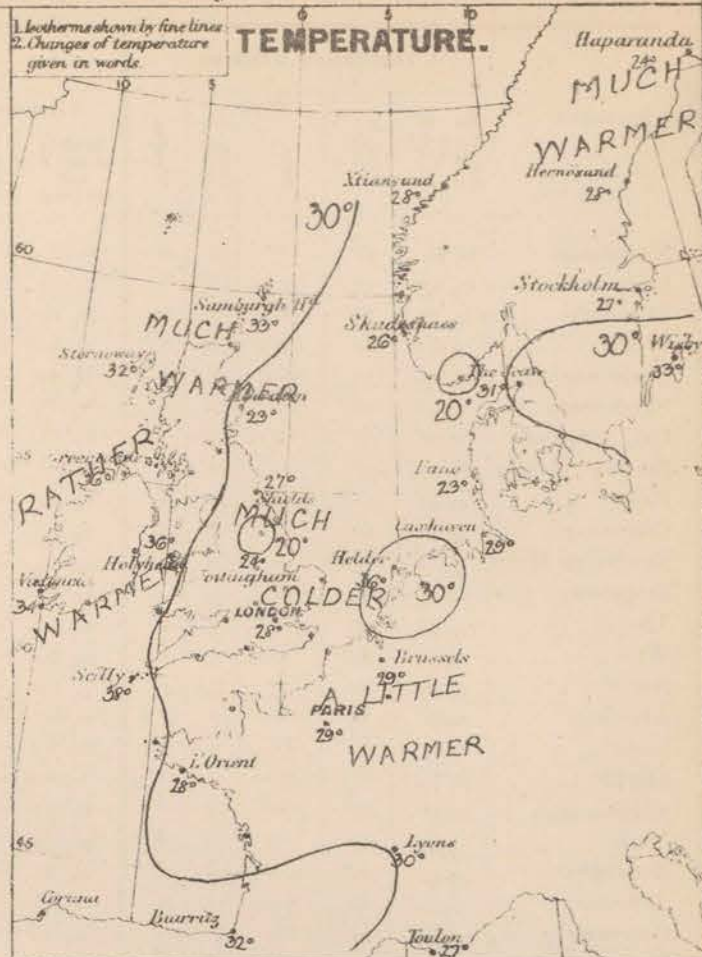
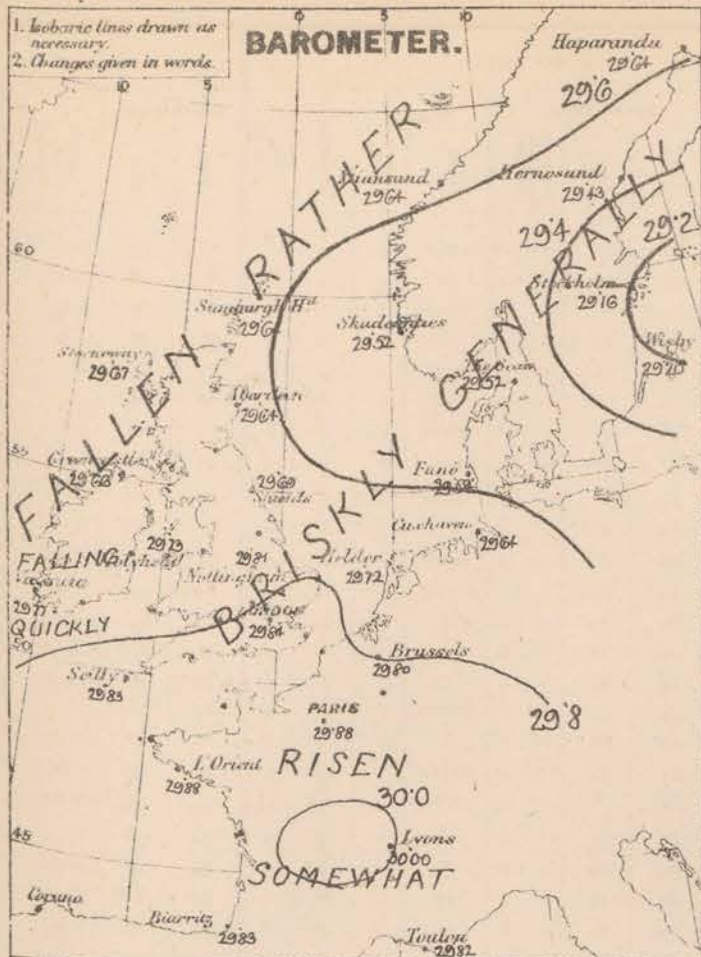
\* AN ASTERISK is inserted in all places for which information is not usually received.

† 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 12<sup>TH</sup> DEC<sup>R</sup> 1878.



**REMARKS.** Weather is very variable this morning. In the south eastern and inland parts of England it is foggy and gloomy, while in the west and north it is fine generally, but snow is falling at Valentia. Snow fell in many places yesterday. In the west of France the weather is very fine. Lunar halos were seen in Scotland, the north of Ireland and London last night. Temperature has risen several degrees in Scotland and the north of Ireland, but fallen still more decidedly along our east coast. It is now as low as 17° at York, 22° at Plymouth, 23° at Boston, 28° in London and 29° at Paris; even at Toulon the thermometer stands at 27°. Wind is light and extremely variable in our Islands and over the North Sea, but a N<sup>W</sup> gale is still reported in the Baltic and Gulf of Bothnia. In the north of France and the English Channel a light NE<sup>W</sup> breeze is reported. Sea is slight or smooth generally.

Barometrical Indications. The barometer has been falling briskly over the British Islands and North Sea since yesterday, while it has risen in France, and readings now vary from 30.0 ins. at Lyons to 29.6 ins. at Bricks and to 29.16 ins. at Stockholm. The general distribution of pressure and its changes are very peculiar, especially when considered in relation to the winds reported.

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

R. H. SCOTT.  
Secretary



## DAILY WEATHER REPORT

DEC 13<sup>th</sup>

1878.

STATIONS.	† YESTERDAY EVENING.						8 A.M. TO DAY.										LAST 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 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 ...	29.54	26	NE	4	S	29.55	-.09	24	24	0	NE	2	0	*	27	19	0.02		
Hernösand ...	29.41	27	N	6	0	29.50	+.07	27	26	-1	NNW	4	0	*	*	*	0.08		
Stockholm ...	29.24	30	NNW	2	0	29.39	+.23	26	26	-1	NNW	2	0	*	*	*	0.2		
Wisby ...	29.26	32	NN	9	S	29.37	+.17	33	32	0	NNE	6	+	*	*	*	0.20		
Christiansund ...	29.56	29	ESE	1	0	29.56	-.08	27	24	-1	ESE	1	0	3	28	19	-		
Skudesnaes ...	29.49	26	ENE	1	0	29.53	+.01	27	26	+1	NNE	1	0	2	28	?	-		
Oxö (Xtiansund) ...	29.51	22	NNW	4	0	29.53	-.03	25	23	+6	NNE	4	0	2	?	18	-		
Skagen (The Seaw) ...	29.51	31	NN	0	0	29.54	+.02	32	31	+1	N	2	0	2	32	25	-		
Fanö ...	29.56	36	W	4	C	29.59	+.01	33	33	+10	WSW	1	0	*	36	23	-		
Cuxhaven ...	29.66	34	W	3	S	29.69	+.05	32	32	+3	SW	3	0	*	?	27	-		
Sumburgh Head ...	29.53	35	NE	0	N	29.51	-.13	38	36	+5	NE	5	0	5	38	28	0.07		
Stornoway ...	29.57	33	E	3	0	29.56	-.11	30	30	-2	NNE	4	0	3	34	29	-		
Thurso ...	29.62	22	Z	0	0	29.55	-.09	31	31	-3	Z	0	0	3	36	19	0.06		
Wick ...	29.58	25	N	1	0	29.55	-.07	26	25	-8	NNW	1	0	1	35	22	0.06		
Nairn ...	29.60	30	Z	0	0	29.58	-.07	24	24	-8	Z	0	0	2	33	21	-		
Aberdeen ...	29.58	29	Z	0	m	29.58	-.06	18	17	-5	WSW	1	0	1	29	18	-		
Leith ...	29.56	31	NN	1	0	29.59	-.04	28	28	-5	NN	1	0	*	34	22	-		
Shields ...	29.59	30	W	3	0	29.65	-.04	15	14	-12	Z	0	0	2	33	13	-		
Scarborough ...	29.64	25	WSW	2	0	29.66	-.07	18	?	-5	SW	1	0	2	29	18	-		
York ...	29.66	23	S	1	0	29.69	-.06	21	21	+4	S	1	0	*	25	16	-		
Nottingham ...	29.71	25	SSW	2	0	29.71	-.10	25	24	+1	ESE	1	0	*	27	23	-		
Ardrossan ...	29.56	33	NE	2	0	29.60	-.08	30	29	-3	NNE	1	0	0	34	28	-		
Greencastle ...	29.55	32	N	2	S	29.56	-.10	26	26	-10	NNW	1	0	*	38	22	0.25		
Donaghadee ...	29.56	30	NN	2	0	29.58	-.12	34	34	+3	S	2	0	2	36	27	0.05		
Kingstown ...	29.58	33	NNW	1	0	29.54	-.21	29	28	-3	NNW	1	0	2	34	25	0.03		
Holyhead ...	29.60	35	SW	2	0	29.57	-.16	27	26	-9	SSE	1	0	1	39	26	0.20		
Liverpool (Bdston) ...	29.62	27	SSE	3	0	29.62	-.14	24	23	0	ESE	2	0	1	34	23	-		
Valencia ...	29.58	31	Z	0	0	29.48	-.29	30	29	-4	NE	2	0	2	43	?	0.03		
Roche's Point ...	29.57	33	NNE	4	0	29.46	-.32	31	30	0	N	3	0	3	36	29	0.09		
Pembroke ...	29.58	38	S	4	C	29.50	-.29	36	36	+6	SE	6	0	5	39	29	0.56		
Portishead ...																			
Scilly ...	29.63	38	WSW	4	0	29.50	-.33	41	39	+3	S	6	0	4	42	35	0.10		
Plymouth ...	29.65	30	NE	2	0	29.57	-.28	31	31	+9	E	3	0	*	35	22	0.23		
Hurst Castle ...	29.69	31	NE	2	f	29.61	-.22	32	32	+2	NE	2	0	2	35	27	0.05		
Dover ...	29.73	31	W	2	0	29.68	-.14	28	27	+1	SSW	3	0	2	35	26	-		
London ...	29.74	30	S	1	omf	29.67	-.17	24	24	-4	Z	0	0	*	30	24	-		
Oxford ...	29.72	25	Z	0	f	29.66	-.19	29	?	+2	Z	0	0	*	30	24	-		
Cambridge ...	29.69	25	S	1	0	29.68	-.18	24	24	-3	Z	0	0	*	27	23	-		
Yarmouth ...	29.73	25	W	1	m	29.71	-.09	24	24	-1	Z	0	0	3	26	21	-		
The Helder ...	*	*	*	*	*	29.68	-.04	27	26	-9	S	1	0	*	*	*	-		
Cape Gris Nez ...	29.75	25	S	1	0	29.68	-.16	18	18	-16	E	1	0	0	34	18	-		
Jersey ...																			
Brest ...	29.65	41	SSE	3	0	29.57	-.26	34	30	+2	SE	3	0	3	41	27	-		
L'Orient ...	29.69	32	SE	3	C	29.62	-.26	30	28	+2	ENE	2	0	2	32	25	-		
Rochefort ...	29.66	37	SE	6	0	29.62	-.29	32	30	+9	N	5	0	3	46	21	-		
Biarritz ...	29.65	45	SSE	4	0	29.71	-.12	43	37	+11	SW	6	0	4	46	34	0.16		
Corunna ...	*	*	*	*	*										*	*	*		
Brussels ...	*	*	*	*	*	29.72	-.08	21	21	-8	E	1	0	*	32	21	-		
Charleville ...	*	*	*	*	*	29.64	-.16	21	*	-4	NE	3	0	*	*	*	*		
Paris ...	29.82	32	NE	2	0	29.62	-.26	25	24	-4	NE	1	0	*	*	*	-		
Lyons ...	*	*	*	*	*	29.64	-.36	37	*	+7	E	2	0	*	*	*	*		
Toulon ...	29.82	34	NN	4	0	29.64	-.18	34	34	+7	ENE	6	0	6	39	32	0.24		

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

	Bar.	Dry.	Wet.	Wind.	Wes.	Sea.		Bar.	Dry.	Wet.	Wind.	Wes.	Sea.	
Skudesnaes	29.49	28	25	ENE	2	0	Valencia	29.65	40	38	ENE	1	c	2
Thurso	29.63	34	34	Z	0	0	Seilly	29.71	42	39	WSW	5	c	3
Scarborough	29.66	26	?	WSW	2	0	London	29.77	30	29	S	1	ogf	*
Mullaghmore	29.63	39	35	NNE	4	0	Rochefort	29.78	28	25	SE	5	c	3
Holyhead	29.64	38	35	SW	3	0								

A further fall of the barometer is reported generally, but the change is much slighter in the N. than elsewhere. The wind has shifted to the SW at most of the English stations, but is still N in Ireland.

Mullaghmore	29.58	31	SW	2	0	29.55	-.18	28	?	-10	ESE	5	0	3	39	26	-
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## EXPLANATION OF COLUMNS.

WEATHER.—Beaufort Scale is, b. blue sky; c. detached clouds; d. drizzling rain; f. fog; g. dark, gloomy; h. hail; i. 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.

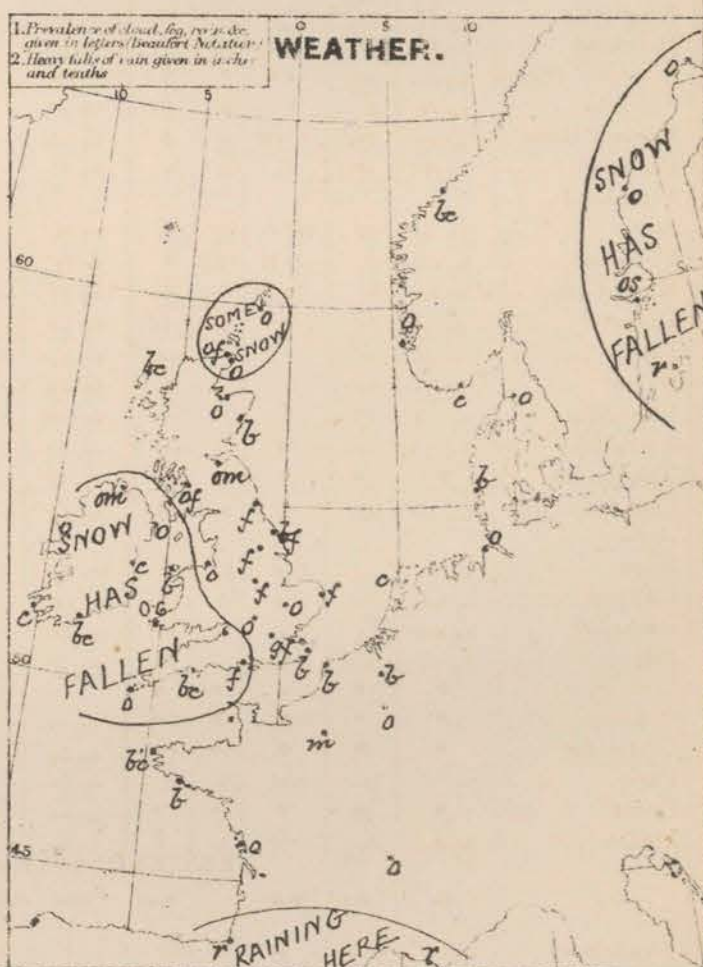
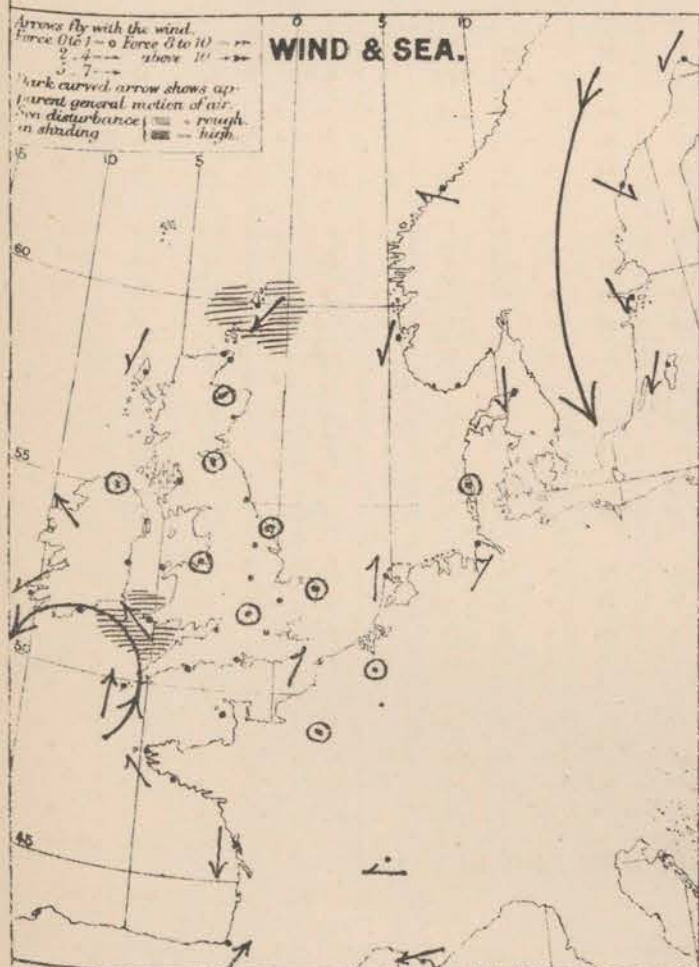
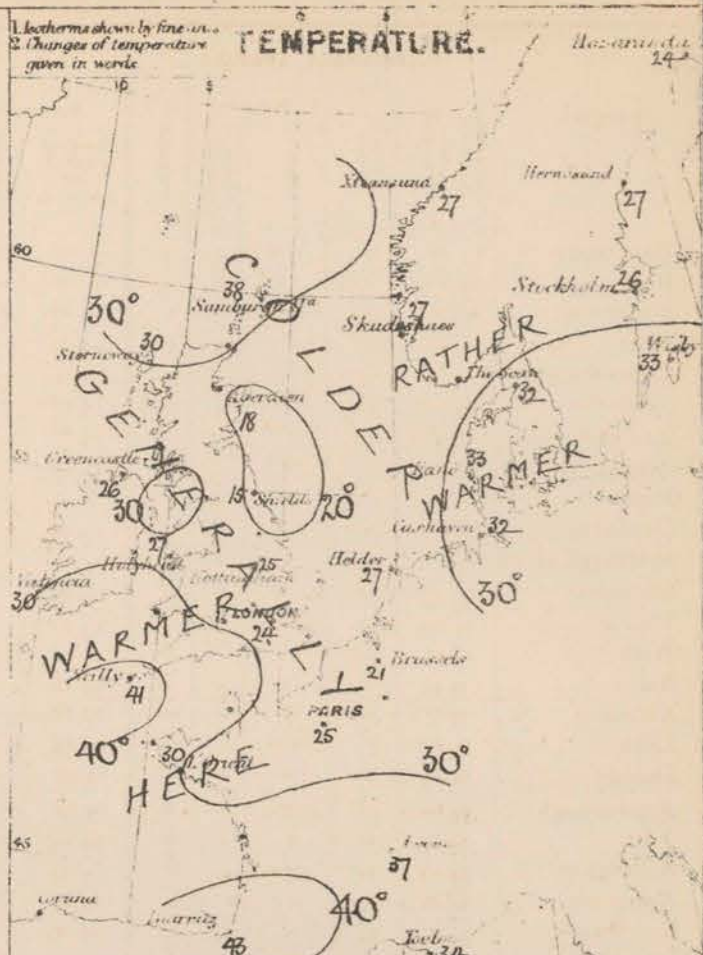
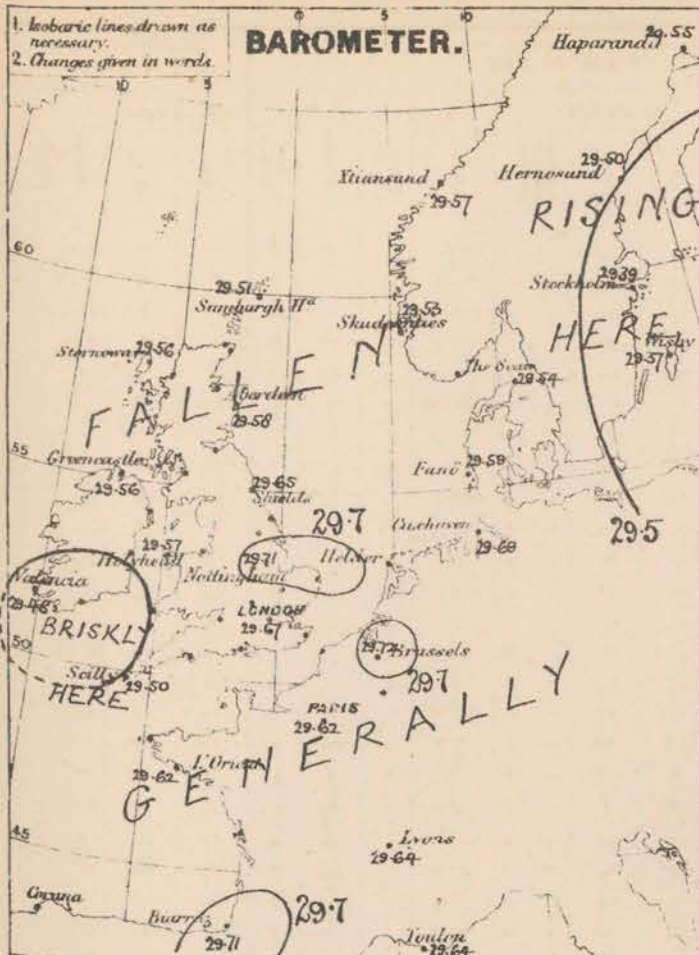
\* AN ASTERISK is inserted in all places for which information is not usually received.

† 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 13. DEC<sup>r</sup> 1876



**REMARKS.** Weather is dry over the whole of W. Europe, but is rather cloudy in most places, with fog and mist at several stations, and hail showers at Pembroke. Heavy hail and rain has fallen at Pembroke, and slight snow showers on our W. and N. coasts. Temperature has risen in the SW. and S., as well as over Denmark and N. Germany, but fallen elsewhere - several degrees in the NE; it at present varies from 41° at Seilly to 15° at Shields. The minimum last night was 13° at Shields, 16° at York, 18° at Scarborough and Aberdeen, and 24° in London. Wind is fresh from the S. at Seilly, from SE. at Pembroke, and from ESE at Mullaghmore, but in the E. and NE. it is light and more variable. Sea is nearly smooth, except in the SW. and over the Shetlands.

**Barometrical Indications.** Pressure has increased somewhat over Scandinavia, Denmark, and on our NW. and NE. coasts, but decreased in all other places. A depression which appeared in the SW. last evening is still shown in that locality, and seems to be growing deeper. Readings are highest over Central England, and lowest over the Baltic.

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

R. H. SCOTT.

Surveyor.



# DAILY WEATHER REPORT

DECE 14<sup>TH</sup> 1878.

STATIONS.	† YESTERDAY EVENING.					8 A.M. TO DAY.										FAST IN NOTES.		
	Barometer at 330 ft. and Sea Level.	Temp. in shade.	WIND.		Weather.	BAROMETR.		SHADE TEMP.			WIND.		Weather.	Sea. (0 to 9.)	SHADE TEMP.		Amount of Rainfall.	
			Dir.	Force. (0 to 12.)		Reading at 330 ft. and Sea Level.	Difference from 330 ft. standard.	Dry.	Wet.	Difference from 8 a.m. yesterday.	Dir.	Force. (0 to 12.)			Max.	Min.		
Maparanda ...	29.45	24	N.E.	4	S	29.43	-12	25	25	+1	E	4	0	#	25	19	0.04	
Hernösand ...	29.48	20	N.W.	2	S	29.47	-03	23	23	-4	N	2	0	#	#	#	-	
Stockholm ...	29.46	28	N.W.	2	0	29.45	+06	25	24	-1	N	2	0	#	#	#	-	
Visby ...	29.48	32	N.W.	6	0	29.49	+12	33	31	0	N	6	0	#	#	#	0.04	
Christiansund ...	29.52	32	S.W.	3	0	29.49	-07	25	25	-2	E.N.E.	1	0	3	32	?	0.04	
Skudesnaes ...	29.56	28	Z.	0	0	29.44	-09	29	29	+2	N.N.E.	2	0	2	?	25	-	
Oxö (Klönö) ...	29.58	24	N.N.W.	4	0	29.47	-06	28	26	+3	N.N.W.	2	0	1	28	19	-	
Skagen (The Head) ...	29.58	32	N.W.	2	0	29.48	-06	31	30	-1	S.W.	3	0	2	34	23	0.04	
Faro ...	29.63	36	N	4	0	29.62	+03	36	35	+3	N.W.	4	0	#	36	32	0.20	
Cuxhaven ...	29.72	33	N.W.	2	0	29.73	+04	38	27	-4	S.W.	1	0	#	?	25	-	
Sumburgh Head ...	29.62	37	N.E.	1	0	29.62	+11	34	32	-4	N.N.E.	4	0	3	38	32	0.08	
Stornoway ...	29.60	35	N	1	0	29.66	+13	35	34	+5	N	1	0	1	37	30	0.20	
Thurso ...	29.63	31	Z	0	0	29.67	+12	38	37	+7	N	2	0	4	38	30	0.02	
Wick ...	29.63	30	N	1	0	29.64	+09	35	34	+9	N	1	0	0	37	25	0.09	
Nairn ...	29.64	23	Z	0	0	29.67	+09	36	30	+6	N.E.	1	0	2	30	19	0.01	
Aberdeen ...	29.60	17	N.W.	1	0	29.64	+08	25	24	+7	N.W.	1	0	1	25	15	0.03	
Leith ...	29.64	20	N	1	0	29.66	+07	24	24	-4	N.N.W.	1	0	2	31	15	-	
Shields ...	29.69	17	N.W.	3	0	29.62	-03	15	15	0	N	2	0	2	20	10	-	
Scarborough ...	29.72	25	N.W.	1	0	29.68	+02	18	?	0	N.W.	1	0	0	25	17	-	
York ...	29.71	26	S	1	0	29.70	+01	19	19	-2	N	1	0	#	27	19	-	
Nottingham ...	29.73	24	E.S.E.	1	0	29.71	00	22	22	-3	N.N.E.	2	0	#	30	21	-	
Ardrossan ...	29.66	28	E.N.E.	1	0	29.68	+08	27	26	-3	E.N.E.	1	0	0	34	24	-	
Greencastle ...	29.63	23	N	1	0	29.70	+14	22	22	-4	N.W.	1	0	#	30	19	0.05	
Donaghadee ...	29.67	33	S.E.	2	0	29.72	+14	27	27	-7	N.W.	1	0	0	35	27	0.07	
Kingstown ...	29.68	37	S.E.	4	0	29.68	+14	36	36	+7	E.N.E.	3	0	3	27	28	0.06	
Holyhead ...	29.62	30	S.E.	1	0	29.64	+07	33	32	+6	E	2	0	1	36	26	-	
Liverpool (Hdston) ...	29.66	28	S.E.	2	0	29.70	+08	33	22	-1	S.E.	1	0	1	30	23	-	
Valencia ...	29.57	31	N	2	0	29.70	+12	31	30	+1	N.N.E.	3	0	3	35	28	0.04	
Roche's Point ...	29.45	35	N.N.E.	4	0	29.64	+18	31	30	0	N.N.E.	3	0	4	40	29	0.28	
Pembroke ...	29.54	38	S.E.	5	0	29.69	+09	28	27	-8	N.E.	3	0	3	40	28	0.32	
Portishead ...																		
Seilly ...	29.36	38	S.E.	7	0	29.41	-09	40	40	-1	N.E.	4	0	6	44	36	0.64	
Plymouth ...	29.55	36	S.E.	3	0	29.42	-15	32	31	+1	N.E.	6	0	#	40	29	-	
Hurst Castle ...	29.64	32	E.S.E.	3	0	29.53	-08	31	31	-1	E.N.E.	4	0	4	37	29	0.01	
Dover ...	29.69	34	E.S.E.	3	0	29.61	-07	30	29	+2	E.S.E.	4	0	2	35	27	-	
London ...	29.69	31	Z	0	0	29.62	-05	25	?	+1	E.N.E.	1	0	#	31	22	-	
Oxford ...	29.70	24	Z	0	0	29.65	-01	23	22	-6	N	1	0	#	32	17	-	
Cambridge ...	29.72	19	Z	0	0	29.66	-02	23	23	-1	Z	0	0	#	26	16	-	
Yarmouth ...	29.72	29	Z	0	0	29.66	-05	34	32	+10	E	3	0	3	34	23	-	
The Helder ...						29.70	+02	28	27	+1	S.S.E.	1	0	#	#	#	-	
Cape Gris Nez ...	29.69	25	E	2	0	29.60	-08	21	21	+3	E	2	0	1	28	18	-	
Jersey ...																		
Brest ...	29.48	39	S.S.E.	5	0	29.47	-10	45	37	+11	N	5	0	4	?	32	0.20	
L'Orient ...	29.54	34	S.E.	4	0	29.47	-15	41	36	+11	N.N.W.	4	0	3	41	27	0.32	
Rochefort ...	29.71	39	S.E.	3	0	29.52	-10	43	37	+11	S.W.	4	0	3	?	19	0.67	
Biarritz ...	29.74	45	S.E.	3	0	29.71	00	43	37	0	S.S.E.	4	0	3	50	36	0.08	
Corunna ...																		
Brussels ...						29.65	-07	28	27	+7	S.E.	1	0	#	30	25	-	
Charleville ...						29.62	-02	26	?	+5	S.E.	3	0	#	#	#	-	
Paris ...	29.70	28	N.E.	1	0	29.56	-06	29	29	+4	N.E.	1	0	#	#	#	0.16	
Lyons ...						29.79	+15	36	34	-1	S.W.	2	0	#	#	#	-	
Toulon ...	29.80	36	N.N.W.	?	0	29.83	+19	39	36	+5	N	2	0	3	41	34	0.43	

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

	Bar.	Dry.	Wet.	Wind.	Wes.	Sea.		Bar.	Dry.	Wet.	Wind.	Wes.	Sea.		
Skudesnaes ...	29.57	26	24	N	1	c	2	Valencia .....	29.49	30	29	NNW	2	c	2
Thurso .....	29.67	35	35	Z	0	c	3	Seilly .....	29.41	44	41	SW	6	0	5
Scarborough ...	29.69	23	?	WSW	1	of	2	London .....	29.69	30	29	Z	0	3m.	*
Mullaghmore ...	29.58	32	32	E	5	of	3	Rochefort ...	29.71	37	34	NE	4	6c	3
Holyhead .....	29.60	33	?	SE	2	6c	1								

Pressure still decreases at Seilly, where the depression noticed this morning is still shown, but is increasing elsewhere. The winds are very light and variable except at the mouth of the Channel.

Mullaghmore	29.62	32	ESE	5	0	29.72	+17	27	?	-	5	1	0	33	26	-
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## 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.

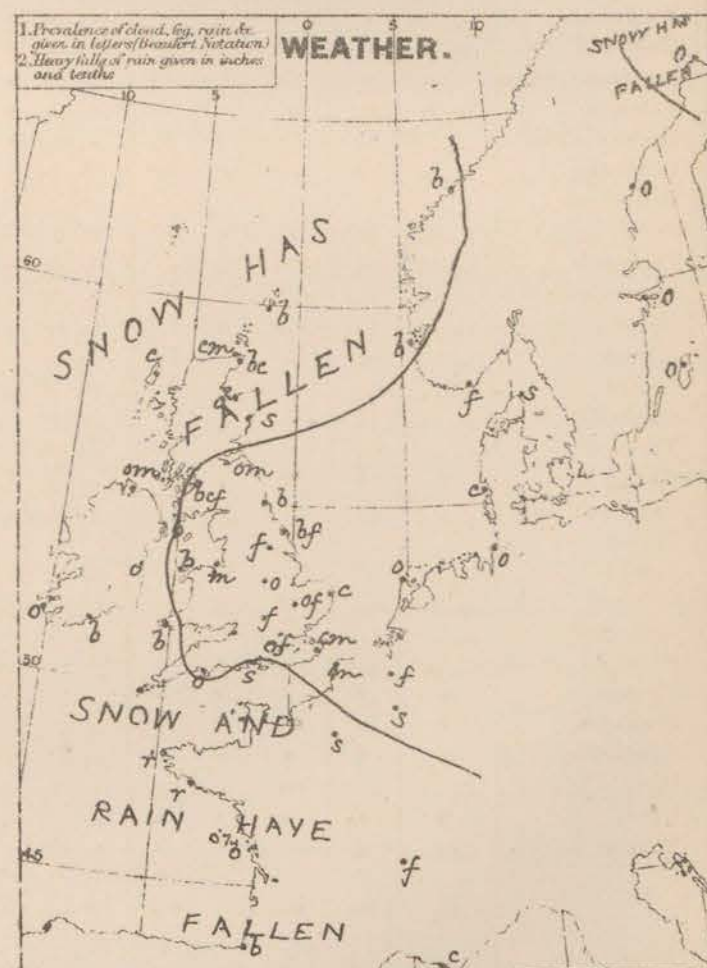
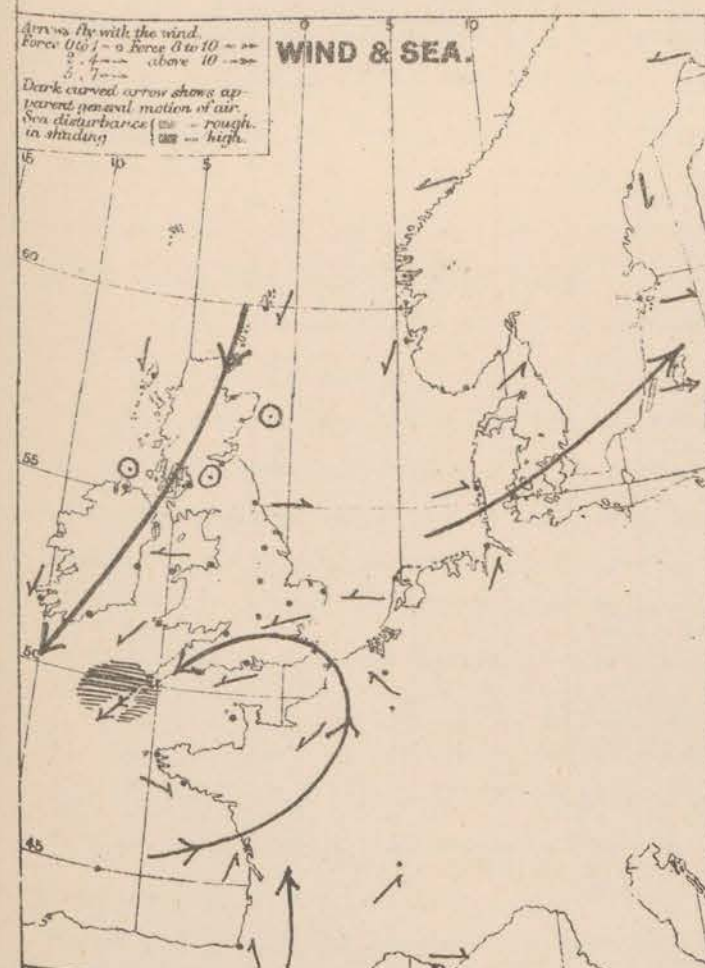
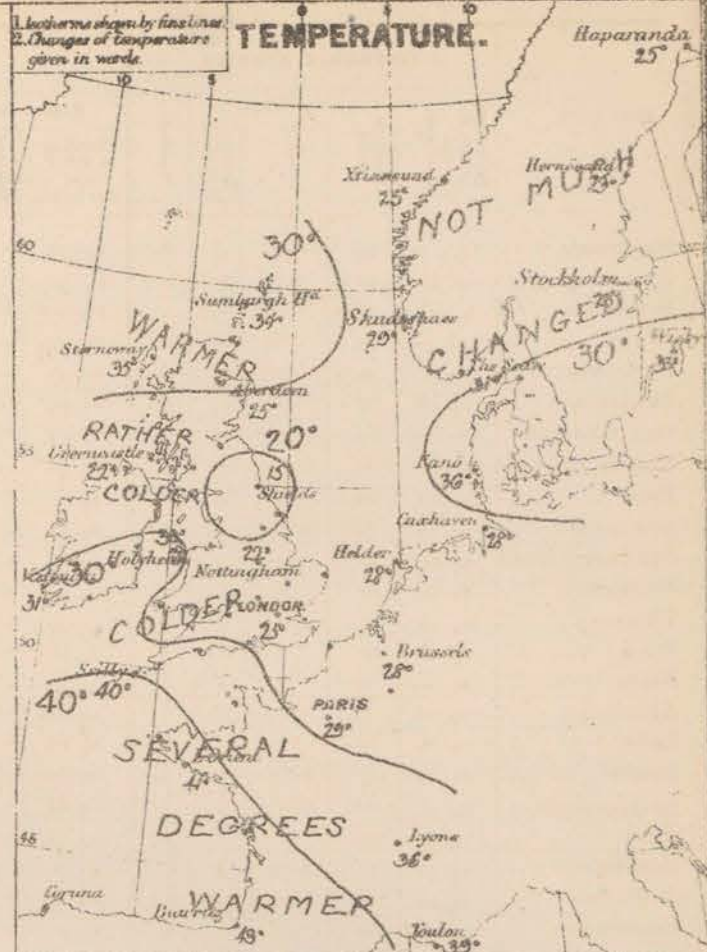
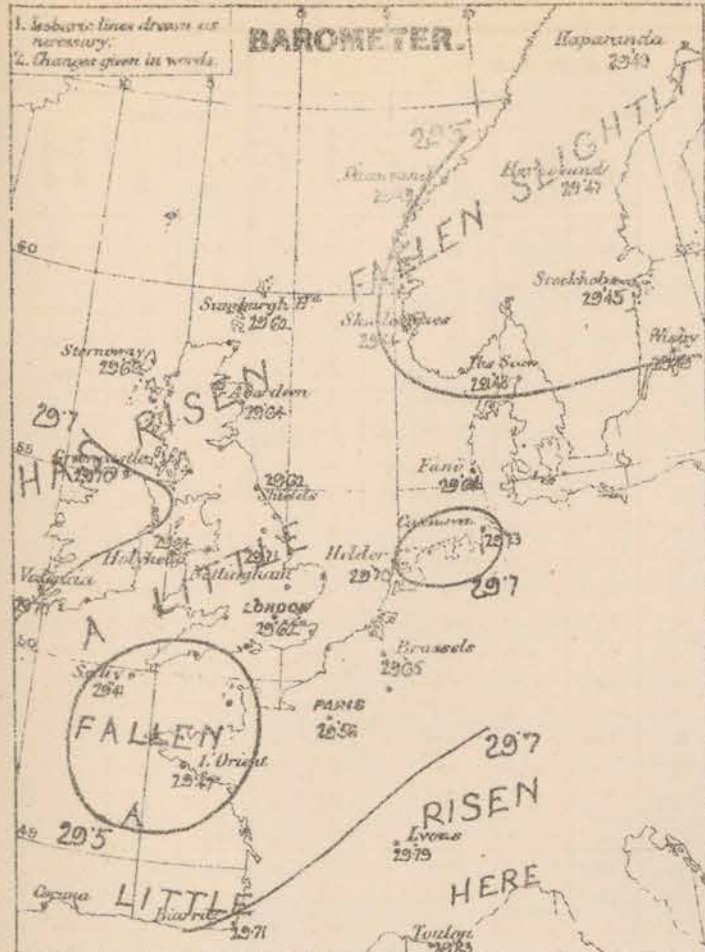
\* AN ASTERISK is inserted in all places for which information is not usually received.

† 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 14<sup>th</sup> Dec<sup>r</sup> 1876.



**REMARKS.** Weather is rather cloudy in most parts of Western Europe, though locally clear at a few stations; fog is still reported from several places; snow is falling at Aberdeen, Hunt Castle, the Lizard and in the north-east of France, and rain in Brittany. Rain or snow has fallen except at our eastern and north-western stations, heavily in the west of France. Thunder and lightning occurred in the south-west last evening. Temperature has fallen at our central and north-western stations, risen in most other places, briskly over Scotland and the west of France; readings at present vary over these islands from 40° at Skilly to 15° at Shields. The minimum last night were 10° at Shields, 15° at Aberdeen and Leith, between 16° and 20° at many inland stations, and 22° in London. In London the thermometer did not rise above 31° during yesterday. Wind is fresh to strong from the E<sup>2</sup> or NE<sup>2</sup> over the Channel and light or moderate from the same quarters on our other coasts, while in the west of France W<sup>2</sup> to NW<sup>2</sup> breezes are reported. Sea is nearly smooth except near the mouth of the Channel.

**Barometrical Indications.** Pressure is decreasing over the south of England as well as over France and Scandinavia, but is increasing elsewhere. The depression in the south-west appears to be moving slowly S<sup>2</sup> over France.

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 DECEMBER 8<sup>TH</sup> to DECEMBER 14<sup>TH</sup> 1878.

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

The weather during this week has been by far the coldest and most wintry which has been experienced this season. The areas of highest pressure has (except on Thursday) been shown on each day to the NW<sup>th</sup>, NNW<sup>th</sup>, or N of these Islands, while disturbances, generally of slight importance, have appeared to the SW<sup>th</sup> and E<sup>th</sup> of us from time to time. In consequence the wind has been chiefly between NN and NE., and usually light or moderate in force. Temperature has been low throughout the entire period but more particularly on Thursday, Friday and Saturday, when the thermometer fell very low over England, especially at our NE<sup>th</sup> stations. The lowest reading recorded during the week was 10° at Shields, early on Saturday morning, while the maximum temperature recorded at that station on Friday was only 20°. Snow and cold rains have fallen in most places, but the amounts have not been large, except in the NE. on Sunday.

## SUNDAY DECEMBER 8<sup>TH</sup>

Weather fine locally at a few stations, and in the N. and S. of Scandinavia, variable elsewhere with snow in the E. and N., hail and rain in the SW. Snow and rain in the E. and S. during the day.

Temperature lower than on the 7<sup>th</sup> except over the Baltic; varying over these Islands from 44° in the SW. to 29° at Nottingham and 30° at Stromsø. Minima in following night 22° at Nottingham and low generally.

Winds S<sup>th</sup> over North Germany and the Baltic, N<sup>th</sup> on most other coasts, fresh in force in the N. and blowing a gale at Selly.

Sea rough in the SW. and NE.

Barometer falling generally at dawn, readings highest in the N. and large areas of low pressure lying to the E<sup>th</sup> and S<sup>th</sup> of these Islands. Mercury rising again in the evening.

## MONDAY DECEMBER 9<sup>TH</sup>

Weather fair in many parts of these Islands and the N. of France, but dull and snowy in the E. and NE., hail in the SW. Hail and snow fell in the N. and NE., and rain and snow in the SW. during the day.

Temperature risen a little in the NW., changed irregularly to the E<sup>th</sup> of the North Sea, fallen elsewhere. Uniformly low over Western Europe. As low as 32° again at Toulon. Minima several degrees below freezing point at the inland stations, and as low as 18° at Nottingham and Cambridge.

Winds light to fresh from the NW<sup>th</sup> over Great Britain and France, but S<sup>th</sup> in North Germany and SE<sup>th</sup> in Scandinavia. Little change during day.

Sea rough in the NW. and SW.

Barometer rising except at Valentia. Readings high off our SW. coast and over the Baltic, low over the S<sup>th</sup> portion of the North Sea. Separate depression appearing over the NW<sup>th</sup> part of the Channel later in the day.

## TUESDAY DECEMBER 10<sup>TH</sup>

Weather fair at several of the NW<sup>th</sup> and N<sup>th</sup> stations, but dense fog prevailing in many places and snow in the NE. of Scotland and England, as well as at Pembroke and Rochefort. Snow in the E. and N. during the day.

Temperature risen in the S. of Scandinavia and S. of France, fallen elsewhere. Low over Central England and down to zero in the N. of the Gulf of Bothnia. Minima below 20° at Nottingham and Cambridge, and below 30° except at Selly, Stromsø and Leith.

Winds SE<sup>th</sup> to E<sup>th</sup> over the Bay of Biscay and NE<sup>th</sup> on most of our coast, but in Central and E<sup>th</sup> England NW<sup>th</sup> breezes reported locally, with SW<sup>th</sup> winds at Brussels and SE<sup>th</sup> at the Alder. NE<sup>th</sup> winds general later in the day.

Sea rather rough off Wick and Selly.

Barometer falling over the N. of France, rising elsewhere. Well marked depressions shown over the Bay of Biscay and Germany, the latter advancing to the Baltic at night and the former to the SW. of France. Readings highest in the N.



WEDNESDAY DEC<sup>r</sup> 11<sup>th</sup>

Weather very fine at our N<sup>w</sup> and N<sup>e</sup> stations, and on the E<sup>m</sup> shore of the North Sea, cloudy and foggy in the E. and SE. of these Islands and the NE. of France. Snow showers general during the day.

Temperature risen in Holland and the greater part of England, fallen elsewhere - several degrees in the S. of Scandinavia and N. of Scotland. Minima in following night 13° at York and between 20° and 25° at most of the inland and N<sup>w</sup> stations.

Winds N<sup>w</sup> over Scandinavia, and NE<sup>ly</sup> at our own and the French stations. Light in force in our neighbourhood, but blowing a gale in the Baltic. Wind more N<sup>w</sup> in evening.

Sea rough at Biarritz and in the Skagerrack.

Barometer high and rising over the British Isles and N. of France, low and falling quickly over Norway and Sweden and at Moscow, the S<sup>w</sup> depression noticed yesterday having reached the Mediterranean. Fall of barometer over the North Sea extending to Great Britain during the morning.

THURSDAY DEC<sup>r</sup> 12<sup>th</sup>

Weather gloomy and foggy over the central and inland parts of England and the E. of France, fine generally in the N. and N<sup>w</sup>, but snow falling at Valentia and over the Baltic. Snow and hail in the N. and extreme N. later in the day.

Temperature risen fast in N. and slightly in N. and S., but fallen briskly in E. and SE. Readings varying from 35° at Scilly to 17° at York. Minima 13° at Shields and below 20° at other stations in the NE. of England and Scotland.

Winds light and very variable over Western Europe, but N<sup>w</sup> gale still blowing in the Baltic. Wind subsequently fresh from SE. in the Bay of Biscay, but light on our coast all day.

Sea nearly smooth.

Barometer risen somewhat in the E. and S. of France, fallen rather briskly elsewhere. Highest at Lyons, lowest at Stockholm. Pressure going away during day and disturbance appearing in N.

FRIDAY DEC<sup>r</sup> 13<sup>th</sup>

Weather dry (except in the extreme S. of France), and moderately fine at many stations, but a great deal of fog and mist still found over England. Snow and rain falling subsequently over Scotland, Ireland and France.

Temperature lower than on the 12<sup>th</sup> over nearly the whole of Great Britain and the NE. of France, higher in the S<sup>w</sup> districts, varying from 41° at Scilly to 15° at Shields. Minima 10° at Shields, and 15° and 20° at our other NE<sup>w</sup> stations and at Oxford and Cambridge.

Winds very light and variable generally, but fresh from the S<sup>w</sup> in the S<sup>w</sup> of England, moderate from N. in the S. of Ireland. Moderate SE<sup>ly</sup> gale at Scilly in the evening.

Sea rough in the S<sup>w</sup> and near the Shetlands.

Barometer falling except in Scandinavia - briskly at our S<sup>w</sup> stations, where a well formed depression had appeared. Pressure going away in the S<sup>w</sup> all day, but increasing elsewhere.

SATURDAY DEC<sup>r</sup> 14<sup>th</sup>

Weather locally clear at a few stations, but cloudy generally, with fog in many places, snow at Aberdeen, the Scaw, Hunt Castle and in the NE. of France. Slight snow subsequently falling in N<sup>w</sup>, N. and S. and heavy falls in a few localities.

Temperature risen in N. of Scotland and over France, fallen in England and Ireland; varying from 40° at Scilly to 15° at Shields. Thermometers beginning to rise at night and minima higher than on preceding days.

Winds N<sup>w</sup> to S<sup>w</sup> over France, E<sup>ly</sup> over S<sup>w</sup> England, and very light and variable in other part of these Islands; strong NE. gale at Scilly. Wind backing afterwards to N<sup>w</sup> at the S<sup>w</sup> stations.

Sea rough at the mouth of the Channel.

Barometer falling on the Continent and our SE. coast, rising slightly in the N. and briskly in the N. Depression passing SE<sup>ward</sup> and apparently filling up. At 6 P.M. barometer falling in E. rising in N.

Meteorological Office,

116 Victoria Street, Westminster, S.W.

ROBERT H. SCOTT, Secretary.



# DAILY WEATHER REPORT

DEC<sup>r</sup> 15<sup>TH</sup>

1878.

STATIONS.	↑ YESTERDAY EVENING.						8 A.M. TO DAY.										LAST 24 HOURS.		
	Barometer at 320 F. and Sea Level.	Temp. in shade.	WIND.		Weather.	Barometer. Reading at 320 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 ...	29.50	25	N	4	6	29.28	-15	24	24	-1	E	2	0	*	27	23	-		
Hernösand ...	29.47	12	Z	0	6	29.53	+06	20	19	-3	Z	0	c	*	*	*	-		
Stockholm ...	29.43	24	Z	0	0	29.47	+02	28	27	+3	SSW	2	6	*	*	*	-		
Wisby ...	29.50	36	NNW	8	0	29.51	+02	32	31	-1	SSW	6	0	*	*	*	0.08		
Christiansund ...	29.38	32	SE	2	5	29.39	-10	30	29	+5	ESE	1	c	3	32	23	0.28		
Skudesnaes ...	29.20	26	Z	0	6	29.42	-02	32	29	+3	SE	6	6	4	?	25	-		
Oxö (Xtiansand) ...	29.44	28	N	4	c	29.46	-01	22	21	-6	N	4	6	2	28	19	-		
Skagen (The Seaw) ...	29.39	33	Z	0	c	29.43	-05	30	28	-1	NE	2	0	3	32	25	0.08		
Fanö ...	29.44	35	SW	4	0	29.41	-21	32	32	-4	Z	0	c	*	36	28	-		
Cuxhaven ...	29.67	25	SSW	1	0	29.49	-24	24	23	-4	SW	1	0	*	27	23	-		
Sumburgh Head ...	29.54	34	NNE	3	6	29.36	-26	32	32	-2	NNE	2	6	1	35	29	0.01		
Stornoway ...	29.66	34	NN	3	8	29.51	-15	30	30	-5	N	4	6	4	38	29	0.20		
Thurso ...	29.68	28	N	2	6	29.45	-23	34	34	-4	N	2	5	4	40	32	0.31		
Wick ...	29.63	34	NNW	1	6	29.42	-22	29	28	-6	NW	1	3	0	37	25	0.12		
Nairn ...	29.60	34	SW	1	c	29.50	-17	30	29	0	Z	0	c	2	37	29	0.01		
Aberdeen ...	29.58	33	NNW	3	6	29.45	-19	33	32	+8	NW	3	0	2	35	25	0.02		
Leith ...	29.58	30	W	2	6	29.49	-17	33	32	+9	W	2	c	*	33	21	-		
Shields ...	29.62	22	NW	1	0	29.54	-08	29	29	+14	NW	3	c	2	29	?	0.01		
Scarborough ...	29.62	22	WSW	1	6	29.58	-10	28	?	+10	W	1	c	2	32	18	-		
York ...	29.63	17	N	1	6	29.59	-11	24	24	+5	SW	1	6	*	26	13	-		
Nottingham ...	29.68	20	Z	0	c	29.68	-03	31	30	+9	SW	1	6	2	31	15	-		
Ardrossan ...	29.66	31	Z	0	6	29.56	-12	38	35	+11	NNW	3	c	2	39	25	0.04		
Greencastle ...	29.74	28	NNW	1	8	29.64	-06	33	31	+11	N	1	c	*	36	20	0.17		
Donaghadee ...	29.70	30	NN	2	6	29.64	-08	31	31	+4	W	3	6	2	33	26	0.01		
Kingstown ...	29.75	31	W	3	6	29.68	00	34	34	-2	NNW	4	6	4	38	30	-		
Holyhead ...	29.71	31	ENE	1	6	29.65	+01	39	38	+6	NNW	4	6	3	42	27	-		
Liverpool (Bidston) ...	29.69	29	WSW	1	0	29.62	-08	35	34	+2	SW	2	6	1	36	23	0.22		
Valencia ...	29.85	29	Z	0	6	29.78	+08	40	38	+9	NNW	2	6	3	44	31	0.02		
Roehe's Point ...	29.80	31	NNE	3	6	29.77	+13	36	34	+5	NW	2	6	3	39	26	0.04		
Pembroke ...	29.73	29	ENE	1	6	29.69	+10	44	43	+16	W	5	cw	4	44	27	-		
Portishead ...																			
Seilly ...	29.73	40	NNE	6	c	29.87	+16	44	39	+4	NNW	6	c	4	44	38	-		
Plymouth ...	29.68	27	NE	2	6	29.83	+14	23	22	-9	NE	1	c	*	34	19	-		
Hurst Castle ...	29.61	31	NNE	3	c	29.76	+13	32	31	+1	NW	3	6	3	34	22	0.01		
Dover ...	29.84	32	NE	4	0	29.69	+08	30	29	0	NNW	4	6	2	34	26	0.05		
London ...	29.62	31	NE	3	cw	29.71	+09	27	26	+2	NW	1	c	*	32	22	-		
Oxford ...	29.66	26	N	1	0	29.71	+06	27	?	+4	NW	1	0	*	29	22	-		
Cambridge ...	29.63	25	N	1	0	29.69	+03	28	27	+5	NNW	1	0	*	30	19	-		
Yarmouth ...	29.59	32	NNW	1	c	29.60	-06	27	26	-7	W	2	6	2	35	20	0.01		
The Helder ...	*	*	*	*	*	29.49	-21	36	33	+8	W	2	0	*	*	*	-		
Cape Gris Nez ...	29.53	27	E	2	5	29.70	+10	32	32	+11	NW	4	0	3	?	18	0.16		
Jersey ...																			
Brest ...	29.63	41	N	5	0	29.90	+43	39	36	-6	NN	3	6	3	45	34	0.12		
L'Orient ...	29.54	39	NW	5	7	29.97	+50	36	32	-5	NN	3	6	3	45	32	0.12		
Rochefort ...	29.40	46	WSW	7	6	29.96	+44	37	34	-6	N	4	6	3	52	46	0.16		
Biarritz ...	29.78	48	SW	6	7	29.97	+26	41	39	+2	NNW	5	7	4	52	36	0.39		
Corunna ...	*	*	*	*	*	30.14	+37	38	*	+6	NE	3	c	2	*	*	*		
Brussels ...	*	*	*	*	*	29.65	00	25	25	-3	SW	2	f	*	30	25	0.12		
Charleville ...	*	*	*	*	*	29.63	+01	27	*	+1	NNW	1	0	*	*	*	*		
Paris ...	29.52	32	?	2	0	29.80	+124	30	28	+1	NE	1	c	*	*	*	0.08		
Lyons ...	*	*	*	*	*	29.79	00	41	*	+5	NW	2	5	*	*	*	*		
Toulon ...	29.81	41	E	1	7	29.77	-06	37	36	-2	NN	4	6	4	43	36	0.16		

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

	Bar.	Dry.	Wet.	Wind.	Wen.	Sea.		Bar.	Dry.	Wet.	Wind.	Wen.	Sea.	
Skudesnaes ...	29.43	26	25	NE	1	2	Valencia .....	29.81	36	34	NNE	1	3m	2
Thurso .....	29.66	38	37	N	2	4	Seilly .....	29.61	40	35	NNE	8	c	6
Scarborough ...	29.65	20	?	WSW	1	3	London .....	29.58	32	?	E	1	6c	*
Mullaghmore ...	29.75	37	35	WSW	2	2	Rochefort ...	29.60	46	43	NNW	5	6c	3
Holyhead .....	29.71	34	32	ENE	2	2								

The weather is fair over nearly the whole of the Kingdom, and the barometer though falling in the E. is rising briskly in the W. At Seilly the NE. gale still holds.

Mullaghmore	29.74	35	SW	4	c	29.67	-05	38	36	+11	SW	2	09	2	39	25	0.13
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## 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.

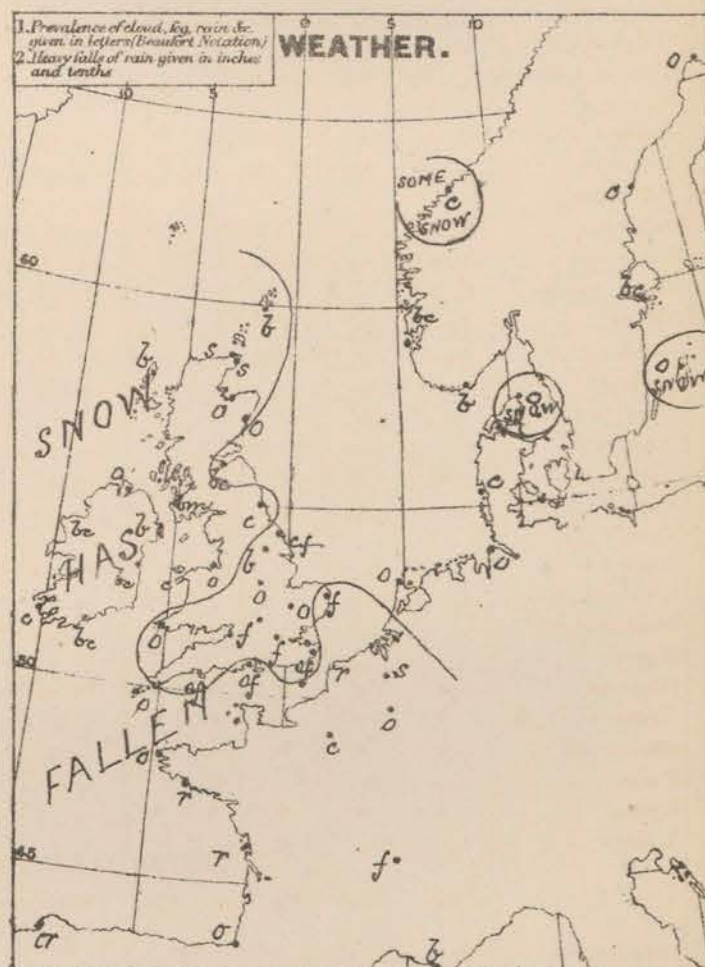
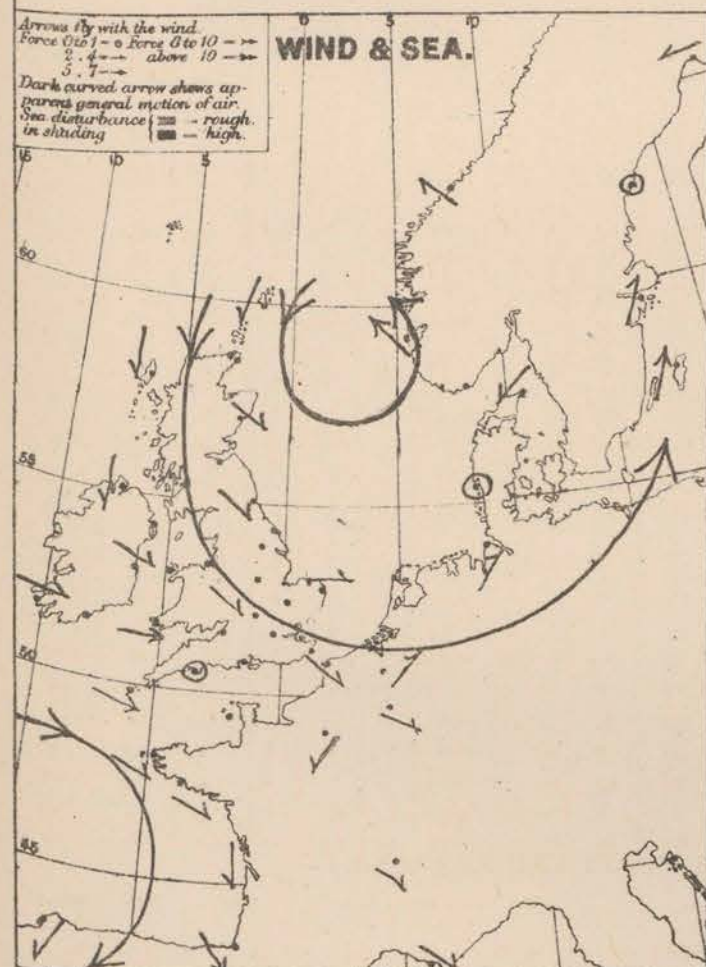
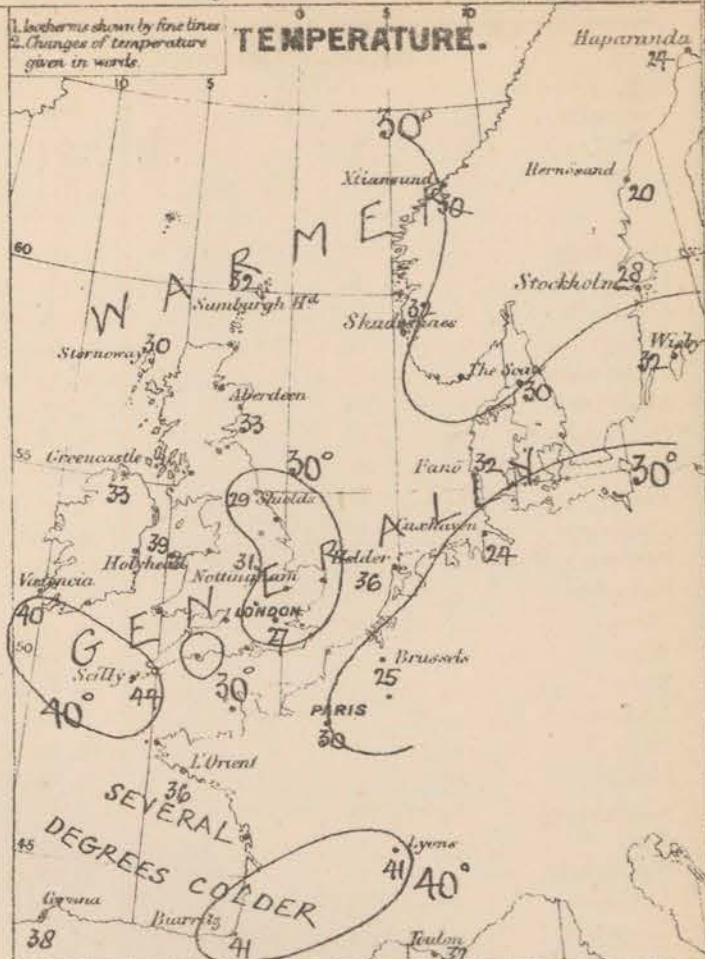
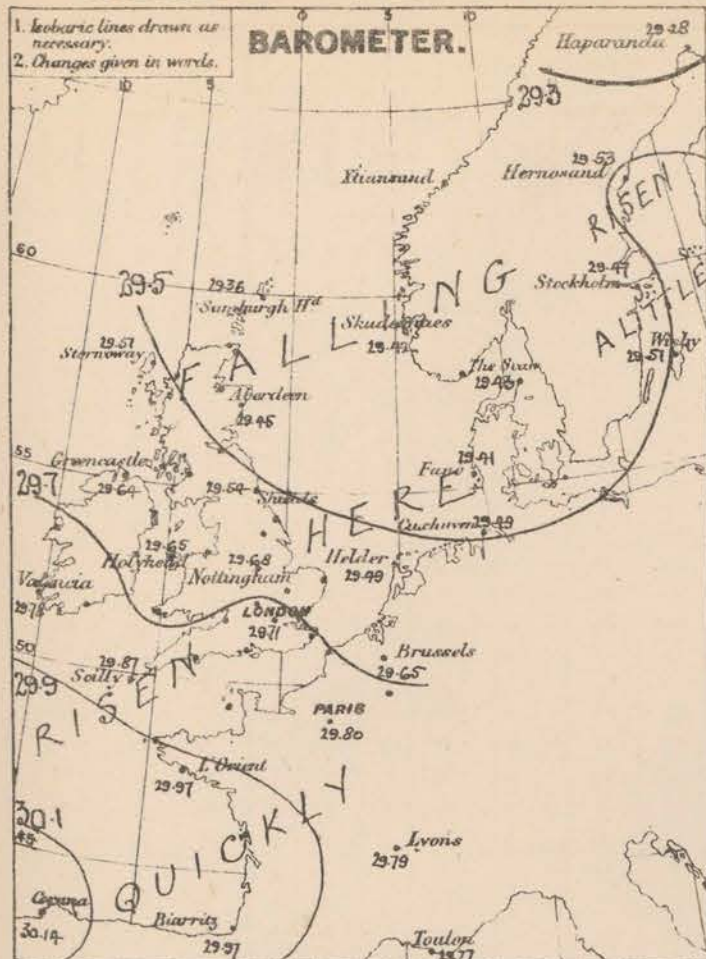
\* AN ASTERISK is inserted in all places for which information is not usually received.

† 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 Sun-day 15 DEC<sup>r</sup> 1878.



**REMARKS.** Weather is now in a much more unsettled state than it has been of late. The sky is moderately clear over the S. of Scandinavia, in the Shetlands, the S. of Ireland and at some of our central stations, but is overcast in most other places. Snow is falling in the N. of Scotland, and rain at Rochfort and Biarritz. Temperature has risen fast over the greater part of the Kingdom, but has fallen in the extreme N. of Scotland, and the W. of France. In Wales the rise of temperature exceeds 10°. At many stations the maximum readings of the past 24 hours are reported this morning. The wind is N. to NW. as most of our own and the French coasts, but draws into SW in N. Germany, and into SE at Shetland. It is strong in force in the SW, but moderate or light elsewhere. Sea is moderate to slight. Barometrical indications. Pressure is increasing over France and the Channel, but decreasing in all other places. A depression appears to be passing from the Shetlands S. down the North Sea, while small subsidaries are shown in the SW.

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

DEC 16<sup>th</sup>

1878.

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	29.82	21	N	2	0	29.83	+ .55	22	22	- 2	E	2	0	*	25	21	-		
Hernösand	29.68	21	Z	0	5	29.69	+ .16	21	?	+ 11	E	2	9	*	*	*	0.12		
Stockholm	29.64	29	NNE	2	0	29.60	+ .13	21	20	- 7	Z	0	8	*	*	*	-		
Wisby	29.54	28	SW	6	bc	29.62	+ .11	30	28	- 2	SSW	4	0	*	*	*	0.16		
Christiansund	29.39	27	ESE	2	bc	29.40	+ .01	28	26	- 2	E	3	0	3	30	21	-		
Skudesnaes	29.45	33	SE	4	bc	29.48	+ .03	31	27	- 4	E	4	0	3	34	?	-		
Oxö (Xtiansand)	29.44	22	NNW	4	bc	29.52	+ .06	25	23	+ 2	NNE	6	9	3	?	19	-		
Skagen (The Seaw)	29.83	29	NNE	3	bc	29.87	+ .14	28	25	- 3	NE	3	0	2	32	21	0.07		
Fanö														*					
Cuxhaven	29.60	29	SW	2	f	29.60	+ .11	34	34	+ 10	SSW	32	3	*	37	?	-		
Sumburgh Head	29.37	35	NE	2	c	29.45	+ .09	33	31	+ 2	NNE	2	bc	2	37	29	0.07		
Stornoway	29.42	28	NNW	1	5	29.49	- .02	33	33	+ 3	N	1	bc	2	33	27	0.03		
Thurso	29.40	35	NE	3	5	29.47	+ .02	38	38	+ 4	NNE	2	0	4	38	33	0.50		
Wick	29.38	32	NY	1	bc	29.43	+ .01	35	34	+ 6	WSW	1	0	0	36	19	0.08		
Nairn	29.45	29	Z	0	0	29.47	- .03	27	27	- 3	NNE	2	bc	3	32	25	0.02		
Aberdeen	29.36	33	NY	3	bc	29.38	- .07	32	31	- 1	NNW	3	bc	2	34	27	0.53		
Leith	29.46	28	W	1	bc	29.44	- .05	28	28	- 5	W	2	bc	*	34	23	-		
Shields	29.49	27	W	4	bc	29.45	- .09	24	24	- 5	W	3	c	1	34	22	-		
Scarborough	29.52	30	W	1	bc	29.46	- .12	26	?	- 2	W	1	bc	2	32	26	-		
York	29.54	31	W	1	0	29.49	- .10	26	26	+ 2	W	1	bc	*	34	24	-		
Nottingham	29.61	32	SSW	1	0	29.53	- .15	30	30	- 1	Z	0	0	*	33	28	0.02		
Ardrossan	29.52	30	NNW	2	bc	29.48	- .08	22	20	- 16	ESE	1	bc	1	38	22	0.01		
Greenecastle	29.57	31	NY	1	0	29.49	- .15	23	22	- 10	N	1	0	*	36	26	0.07		
Donaghadee	29.59	32	W	2	bc	29.57	- .10	26	25	- 5	NNW	3	bc	2	34	26	-		
Kingstown	29.63	36	NNW	3	bc	29.53	- .15	31	30	- 3	NNW	2	bc	2	36	30	-		
Holyhead	29.61	39	NNW	2	c	29.49	- .16	38	37	- 1	NNW	2	c	1	41	35	0.01		
Liverpool (Midston)	29.58	36	NNW	2	0	29.49	- .13	33	32	- 2	SSW	1	0	1	37	34	0.11		
Valencia	29.66	41	NY	1	bc	29.52	- .26	36	35	- 4	NY	3	c	2	47	33	0.25		
Roche's Point	29.64	37	NNW	2	bc	29.50	- .27	35	33	- 1	N	3	bc	3	42	32	-		
Pembroke	29.64	43	WSW	2	c	29.47	- .22	36	36	- 8	N	1	0	2	44	36	0.10		
Portishead																			
Scilly	29.76	48	W	7	0	29.49	- .38	45	43	+ 1	NY	5	0	4	48	38	0.05		
Plymouth	29.71	36	NN	2	0	29.48	- .35	33	33	+ 10	Z	0	bc	*	42	20	0.63		
Hurst Castle	29.68	39	NNW	3	c	29.55	- .26	37	36	+ 5	E	1	bc	2	41	30	0.03		
Dover	29.66	36	W	4	c	29.52	- .17	34	33	+ 4	SW	1	bc	2	36	29	0.02		
London	29.66	34	WSW	1	bc	29.52	- .19	33	32	+ 6	N	1	bc	*	35	28	0.01		
Oxford	29.64	34	W	1	c	29.52	- .19	31	30	+ 4	Z	0	bc	*	36	29	-		
Cambridge	29.63	33	SW	1	0	29.53	- .16	27	27	- 1	SW	1	0	*	35	26	-		
Yarmouth	29.61	31	WSW	3	c	29.52	- .08	26	26	- 1	WSW	2	bc	2	32	25	-		
The Helder	*	*	*	*	*	29.51	+ .02	32	32	- 4	S	1	0	*	*	*	0.08		
Cape Gris Nez	29.68	39	SW	6	f	29.54	- .16	39	39	+ 7	SW	3	f	3	41	36	0.39		
Jersey																			
Brest	29.58	45	NN	4	0	29.44	- .46	41	39	+ 2	E	3	0	3	46	37	0.08		
L'Orient	29.91	43	NNW	4	bc	29.45	- .52	43	43	+ 7	E	3	f	3	46	34	0.39		
Rocheport	30.05	43	NN	3	bc	29.37	- .39	37	36	0	S	6	f	4	46	32	0.28		
Bigritz	30.11	46	SSE	2	bc	29.71	- .26	48	41	+ 7	S	4	bc	3	50	36	0.04		
Corunna	*	*	*	*	*										*	*	*		
Brussels	*	*	*	*	*	29.60	- .05	33	33	+ 8	SW	4	5	*	35	?	0.24		
Charleville	*	*	*	*	*	29.72	+ .09	30	*	+ 3	S	1	0	*	*	*	*		
Paris	29.87	35	N	1	c	29.71	- .09	34	32	+ 4	NE	3	c	*	*	*	-		
Lyons	*	*	*	*	*	29.99	+ .20	34	*	- 7	S	2	bc	*	*	*	*		
Toulon	29.79	34	NN	9	bc	29.89	+ .12	34	28	- 6	NNW	6	bc	6	39	28	-		
YESTERDAY'S 2 P.M. REPORTS AND REMARKS.																			
	Bar.	Dry.	Wet.	Wind.	Wes.	Sea.		Bar.	Dry.	Wet.	Wind.	Wes.	Sea.						
Skudesnaes	29.45	32	28	ESE	4	bc	3	Valencia											
Thurso								Scilly											
Scarborough								London					*						
Greenecastle							*	Rocheport	30.05	45	39	NN	3	bc	3				
Holyhead																			

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

Bar.	Dry.	Wet.	Wind.	Wet.	Sea.	Bar.	Dry.	Wet.	Wind.	Wet.	Sea.
Skudesnaes	29.45	32	28	ESE	4	bc	3	Valencia			
Thurso								Scilly			
Scarborough								London			*
Greenecastle						*		Rocheport	30.05	45	39
Holyhead											

Mullaghmore 29.61 35 SW 2 f 29.57 - .16 28 27 - 10 WSW 2 bc 2 38 27 0.16

## 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. mist (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.

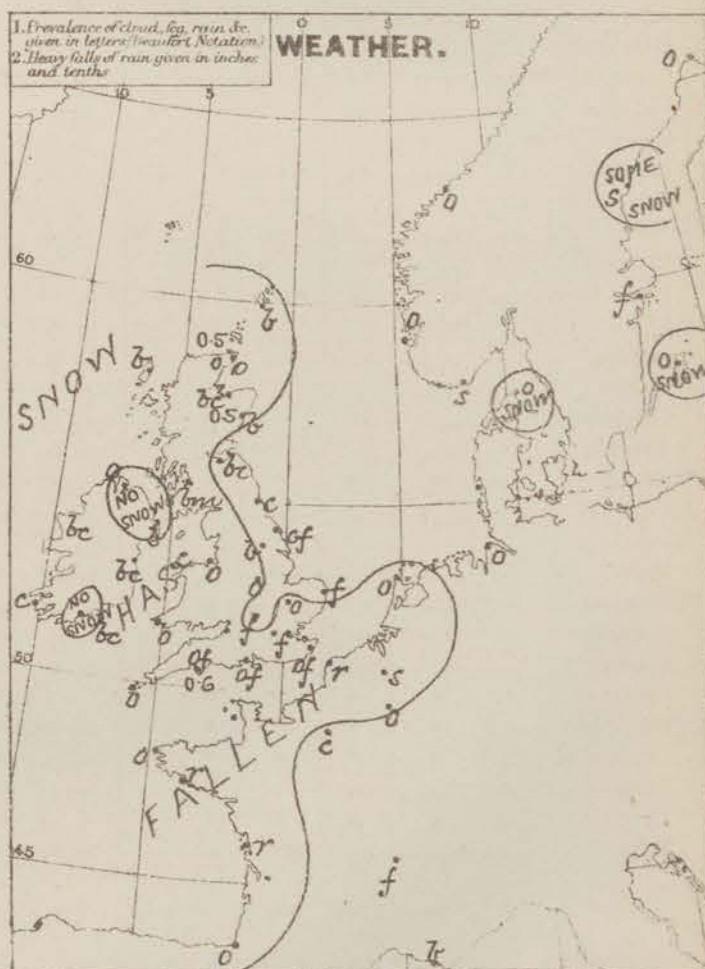
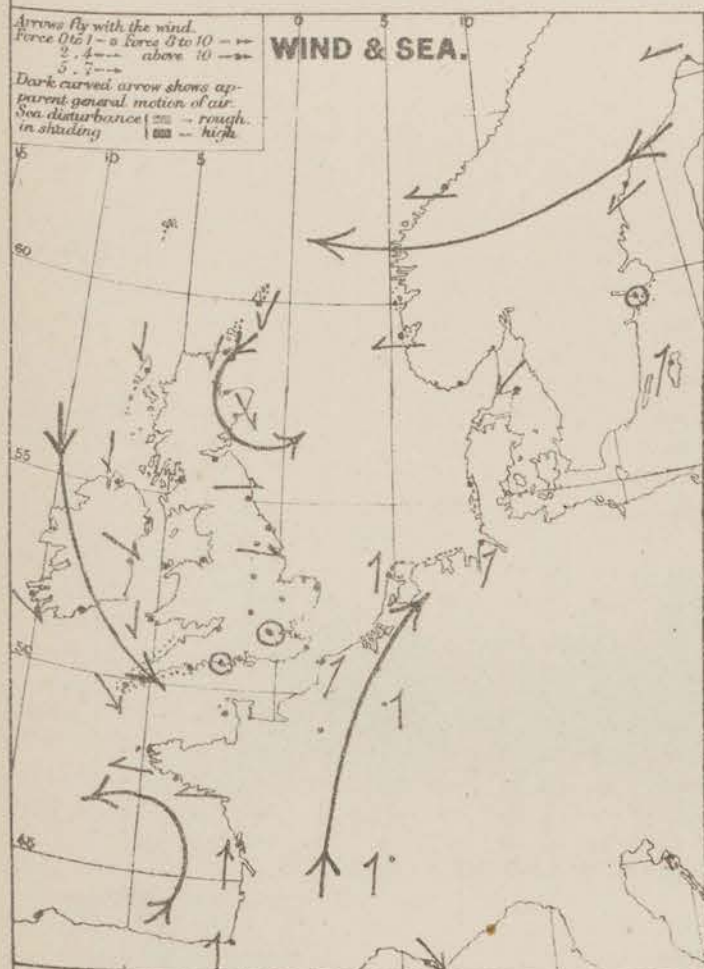
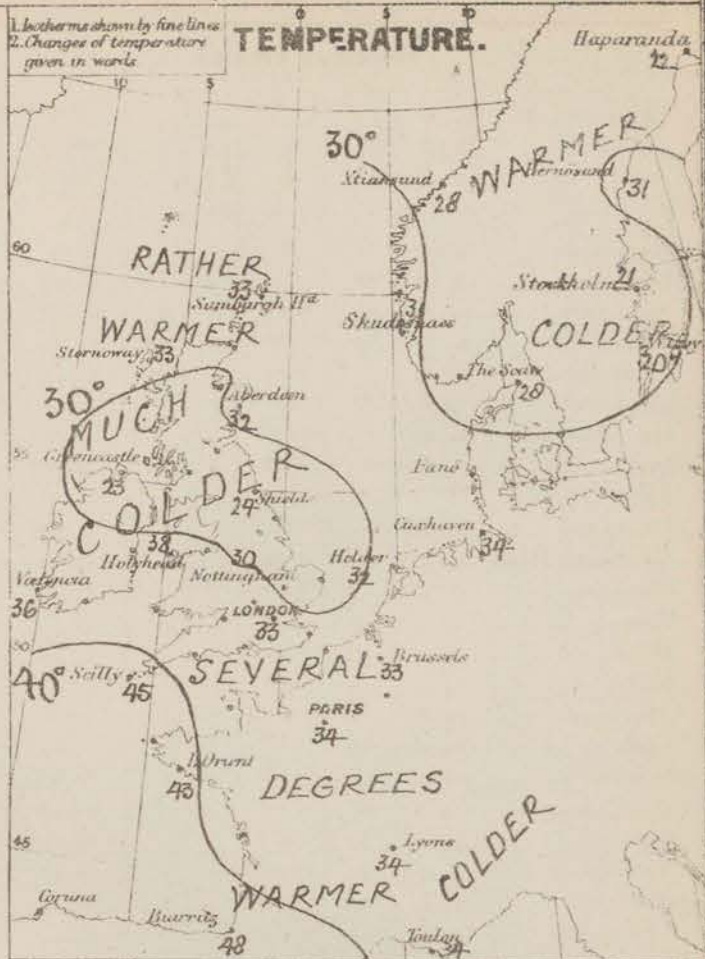
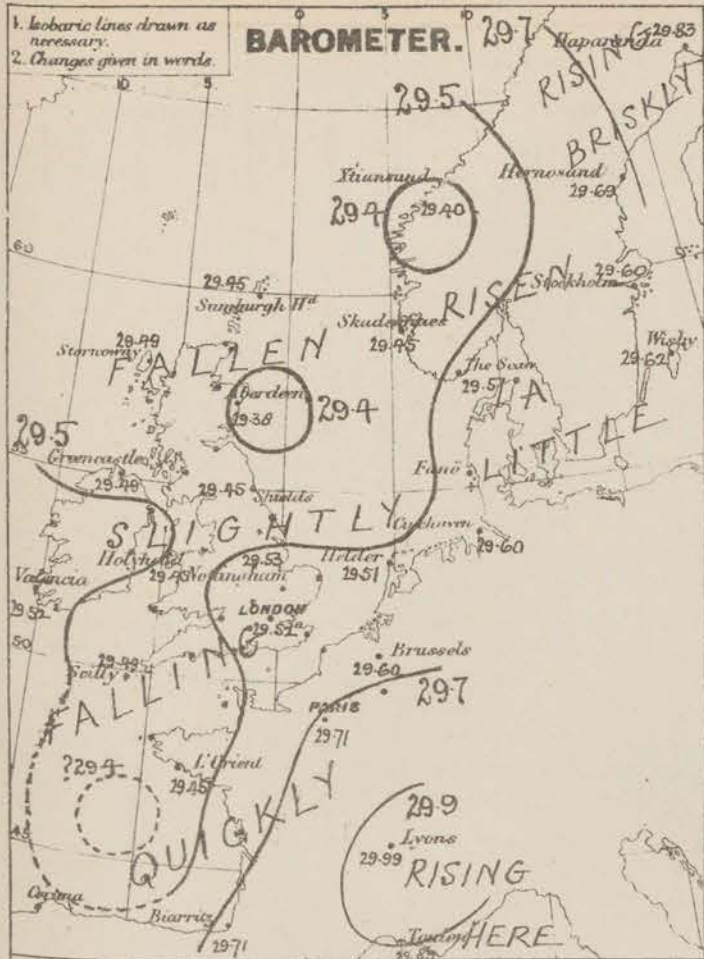
† The evening observations are taken at 8 p.m. in our Islands, at 8 p.m. (Christiania time) in Sweden, Norway, and Denmark, and at 7 p.m. (Paris time) in France.

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 Mon-day 16. DEC<sup>R</sup>. 1878.



REMARKS. Weather is again very variable over the United Kingdom and its neighbourhood, the sky being clear at several places, overcast or densely foggy in others, while rain and snow are falling at some other stations. Falls of snow and cold rain have occurred in many places, the largest amounts being reported from Thurso, Aberdeen and Plymouth. Temperature is changing very irregularly. In the N<sup>th</sup> parts of England and Ireland, and in the E of Scotland it has fallen fast since yesterday, and is as low as 21° to 24° at several stations in those regions. In France and the E of England, however, it has risen, and is now 45° at Seilly, 43° at O. Orient, and 33° in London. Wind is extremely variable, especially over the United Kingdom, where it is also very light. Sea is moderate to smooth.

Barometrical Indications. In the course of the past 24 hours the barometer has risen at nearly all the Continental stations, but fallen in our Islands. Readings vary from 29.8 ins. at Capatzen and 30.0 ins. at Agaña to 29.4 ins. at St. John's, Aberdeen, and apparently over the Bay of this city. To the N<sup>W</sup> of our Islands pressure is higher than at is over the Kingdom.

Winnings. The Antler Club was limited on the coast of Devon and Cornwall last evening.

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

DEC 17

1878.

STATIONS.	† YESTERDAY EVENING.						8 A.M. TO DAY.										PAST 24 HOURS.		
	Barometer at 350 F. and Sea Level.	Temp. in shade.	WIND.		Weather.	Barometer. Reading at 350 F. and Sea Level.	Difference from 8 a.m. yesterday.	SHADE TEMP.			WIND.		Weather.	Sea. (0 to 9).	SHADE TEMP.		Amount of Rainfall.		
			Dir.	Force. (0 to 13).				Dry.	Wet.	Difference from 8 a.m. yesterday.	Dir.	Force. (0 to 13).			Max.	Min.			
Haparanda ...	29.87	20	Z	0	o	29.93	+ 10	21	21	- 1	SE	2	o	*	?	19	-		
Hernösand ...	29.74	30	E	2	o	29.79	+ 10	26	26	- 5	Z	0	c	*	*	*	0.16		
Stockholm ...	29.72	22	Z	0	f	29.67	+ 07	30	30	+ 9	Z	0	f	*	*	*	0.08		
Wisby ...	29.69	32	SSE	6	s	29.65	+ 03	30	28	0	SE	4	o	*	*	*	0.12		
Christiansund ...	29.38	30	SSE	2	o	29.39	- 01	29	25	+ 1	SE	3	o	3	30	23	-		
Skudeanaes ...	29.45	33	ESE	4	o	29.36	- 09	32	30	+ 1	E	4	o	3	34	32	-		
Öxö (Ålensund) ...	29.48	23	N	4	s	29.38	- 14	33	33	+ 8	ESE	6	o	4	?	19	-		
Säagen (The Sound) ...	29.34	33	SW	5	o	29.48	- 09	34	33	+ 6	SSE	4	o	4	34	28	-		
Fanö ...	29.45	32	S	6	o	29.37	- 10	32	32	- 3	SE	4	s	*	34	30	0.24		
Cuxhaven ...	29.36	34	S	1	f	29.42	- 18	30	30	- 4	S	1	o	*	34	28	-		
Sumburgh Head ...	29.44	32	NNE	2	o	29.36	- 09	33	31	0	NNE	1	o	1	35	27	0.03		
Stornoway ...	29.54	32	N	3	o	29.45	- 04	33	33	0	N	1	o	2	34	28	-		
Thurso ...	29.50	37	NNW	1	o	29.35	- 12	33	33	- 5	NNW	2	o	3	40	31	0.06		
Wick ...	29.46	25	NT	1	o	29.40	- 03	26	25	- 9	NT	1	s	0	27	22	0.02		
Nairn ...	29.53	26	Z	0	o	29.46	- 01	28	27	+ 1	Z	0	o	2	33	24	0.05		
Aberdeen ...	29.46	32	NNW	1	o	29.43	+ 05	31	30	- 1	NNW	1	o	2	36	30	-		
Leith ...	29.46	31	H	3	o	29.46	+ 02	28	28	0	H	2	o	*	32	26	-		
Shields ...	29.44	30	NT	3	o	29.47	+ 02	26	25	+ 2	NT	3	o	2	35	24	0.03		
Scarborough ...	29.44	30	WSW	1	o	29.44	- 02	33	32	+ 7	NNW	1	o	2	37	26	-		
York ...	29.46	30	NNW	1	o	29.47	- 02	29	29	+ 3	N	1	o	*	35	24	-		
Nottingham ...	29.57	25	Z	0	o	29.52	- 01	21	20	- 9	SSW	1	o	*	31	18	-		
Ardrossan ...	29.53	25	ESE	1	o	29.51	+ 03	23	22	+ 1	ESE	1	o	0	32	22	-		
Greencastle ...	29.54	25	NNW	1	o	29.56	+ 07	29	29	+ 6	S	1	o	*	30	22	0.10		
Donaghadee ...	29.54	31	H	2	o	29.57	+ 06	28	27	+ 2	H	3	o	2	37	25	-		
Kingstown ...	29.55	27	NNW	3	o	29.60	+ 07	27	26	- 4	NNW	4	o	4	32	26	-		
Holyhead ...	29.50	33	ESE	1	o	29.54	+ 05	39	36	+ 1	N	3	o	3	40	33	-		
Liverpool (Heddon) ...	29.50	24	WSW	1	f	29.53	+ 04	30	30	- 3	NNW	1	o	1	33	24	-		
Valencia ...	29.56	31	Z	0	o	29.59	+ 07	31	30	- 5	Z	0	o	1	41	26	-		
Roche's Point ...	29.55	32	NNE	3	o	29.67	+ 17	29	28	- 6	N	3	o	3	36	24	-		
Pembroke ...	29.47	34	N	1	o	29.54	+ 07	35	35	- 1	N	1	o	2	40	31	0.03		
Portishead ...																			
Seilly ...	29.47	43	NNW	4	f	29.56	+ 07	40	38	- 5	NNE	6	o	5	45	36	0.30		
Plymouth ...	29.43	33	N	1	o	29.52	+ 04	29	29	- 4	N	2	o	*	38	28	-		
Hurst Castle ...	29.43	37	N	1	o	29.46	- 04	28	27	- 9	NNW	3	o	2	41	25	0.05		
Dover ...	29.45	37	SW	4	o	29.42	- 10	28	27	- 6	N	4	o	2	39	27	0.38		
London ...	29.46	34	N	1	o	29.47	- 05	25	?	- 8	W	1	o	*	36	24	0.03		
Oxford ...	29.47	31	Z	0	s	29.50	- 02	22	22	- 9	Z	0	o	*	31	20	0.02		
Cambridge ...	29.47	31	NT	1	o	29.45	- 08	28	28	+ 1	NT	1	o	*	32	20	-		
Yarmouth ...	29.48	27	NNW	1	f	29.42	- 10	25	25	- 1	NNW	1	f	2	29	18	-		
The Helder ...	*	*	*	*	*	29.36	- 15	31	31	- 1	S	1	f	*	*	*	0.55		
Cape Gris Nez ...	29.47	34	S	2	o	29.44	- 10	32	32	- 7	N	3	o	2	45	30	-		
Jersey ...	29.45	41	SW	1	o	29.45	- 35	38	37		NNE	4	o	4	41	36	0.33		
Brest ...	29.50	45	NN	2	o	29.48	+ 04	37	36	- 4	N	4	o	4	45	36	0.20		
L'Orient ...	29.53	39	NN	2	o	29.40	+ 01	37	36	- 6	NNW	3	o	4	45	32	0.24		
Rochefort ...	29.51	48	H	5	o	29.50	- 07	37	36	0	E	3	o	3	32	34	0.12		
Biarritz ...	29.65	48	S	3	o	29.49	- 22	48	43	0	WSW	3	f	4	34	41	0.35		
Corunna ...	*	*	*	*	*									*	*	*	*		
Brussels ...	*	*	*	*	*									*	*	*	*		
Charleville ...	*	*	*	*	*	29.38	- 34	25	*	- 5	SSW	1	o	*	*	*	*		
Paris ...	29.49	32	?	3	o	29.46	- 25	33	33	- 1	ENE	2	o	*	*	*	*		
Lyon ...	*	*	*	*	*	29.52	- 47	43	*	+ 9	SE	2	o	*	*	*	*		
Toulon ...	29.51	34	NE	5	f	29.58	- 31	43	41	+ 9	E	3	o	4	43	30	0.04		

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

	Bar.	Dry.	Wet.	Wind.	Woa.	Sea.		Bar.	Dry.	Wet.	Wind.	Woa.	Sea.		
Skudesnaes ...	29.43	32	28	ESE	4	2	3	Valencia .....	29.34	40	36	NNE	2	e	3
Thurso .....	29.50	39	38	N	2	bc	4	Seilly .....	29.47	45	41	NN	3	cp	4
Scarborough ...	29.44	27	?	WSW	1	cl.	1	London .....	29.45	30	35	Z	0	offgd	#
Mullaghmore ...	29.53	32	?	E	3	bc	3	Rochefort ...	29.47	50	45	W	6	e	4
Holyhead .....	29.50	36	25	ESE	1	bc	1								

No important change is reported in our Islands, in London the fog has been exceedingly dense all day.

## 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 sea, and to "back" when it shifts in the opposite direction.







# DAILY WEATHER REPORT

DEC 18<sup>th</sup> 1878.

STATIONS.	† YESTERDAY EVENING.						8 A.M. TO DAY.										LAST 24 HOURS.		
	Barometer at 32° F. 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.			
			Direc.	Force. (0 to 12).			Dry.	Wet.	Difference from 8 a.m. yesterday.	Direc.	Force. (0 to 12).			Max.	Min.				
Haparanda ...	29.91	18	N	2	0	29.75	-18	22	22	+ 1	NE	4	0	*	23	14	-		
Hernösand ...	29.75	31	ESE	2	0	29.58	-21	27	26	+ 1	N	8	0	*	*	*	0.16		
Stockholm ...	29.49	28	NNE	2	0	29.39	-28	23	23	- 7	N	2	0	*	*	*	-		
Wisby ...	29.47	30	E NE	2	0	29.40	-25	31	29	+ 1	E	4	0	*	*	*	-		
Christiansund ...	29.35	34	SSE	4	0	29.41	+02	31	29	+ 2	SE	2	0	2	34	23	-		
Skudesnaes ...	29.33	36	SE	6	0	29.29	-07	36	32	+ 4	ESE	6	0	4	?	32	-		
Oxö (Xtiansand) ...	29.36	33	NE	4	0	29.34	-04	34	33	+ 1	ESE	6	0	4	34	38	-		
Skagen (The Sæw) ...	29.42	32	ESE	6	5	29.45	-03	30	28	- 4	SE	4	0	4	34	27	0.08		
Fanö ...	29.34	27	SSE	4	0	29.39	+02	30	29	- 2	SSE	4	5	*	32	25	0.12		
Cuxhaven ...	29.40	33	E	2	5	29.42	+00	32	32	+ 2	SW	1	0	*	?	30	-		
Sumburgh Head ...	29.22	30	NNE	1	6	29.15	-21	37	34	+ 4	E	4	0	3	37	27	0.21		
Stornoway ...	29.05	33	SSW	5	8	29.04	-41	34	34	+ 1	NE	8	5	5	35	29	0.40		
Thurso ...	29.23	28	SW	1	6	?	?	37	37	+ 4	ESE	3	0	3	37	24	0.14		
Wick ...	29.18	29	NN	1	6	29.01	-39	36	35	+ 10	E	4	0	3	38	24	0.24		
Nairn ...	29.23	29	L	0	0	28.97	-49	22	22	- 6	L	0	0	1	34	22	-		
Aberdeen ...	29.28	29	L	0	6	28.99	-44	23	23	- 8	WSW	1	0	1	36	21	0.17		
Leith ...	29.32	31	SW	3	6	28.94	-32	31	31	+ 3	SSW	4	0	*	37	26	0.01		
Shields ...	29.39	27	NNN	1	6	29.06	-41	32	32	+ 6	WSW	1	0	1	35	24	0.02		
Scarborough ...	29.41	29	NNN	1	6	29.12	-32	33	?	0	WSW	2	0	2	33	26	0.04		
York ...	29.43	27	NN	1	6	29.15	-32	34	33	+ 5	SW	2	0	*	34	25	0.02		
Nottingham ...	29.49	?	L	0	6	29.27	-25	33	33	+ 12	SSW	3	0	*	?	21	0.01		
Ardrossan ...	29.35	39	WSW	2	6	28.89	-62	40	37	+ 7	N	5	0	5	41	?	0.26		
Greencastle ...	29.41	35	N	2	6	29.07	-49	35	34	+ 6	NN	5	0	*	37	29	0.48		
Donaghadee ...	29.45	30	N	2	6	29.11	-46	32	31	+ 4	N	4	0	2	34	26	0.09		
Kingstown ...	29.53	33	N	4	6	29.29	-31	35	33	+ 8	NNN	4	0	4	38	26	0.02		
Holyhead ...	29.50	37	N	4	6	29.44	-30	38	35	- 1	N	5	0	4	42	36	0.10		
Liverpool (Hedston) ...	29.46	33	N	2	0	29.19	-34	36	34	+ 6	N	6	0	4	37	30	0.15		
Valencia ...	29.46	38	NN	2	6	29.45	-14	43	40	+ 12	NN	4	0	3	46	27	0.16		
Roche's Point ...	29.66	36	NNN	3	6	29.44	-23	38	37	+ 9	NNN	3	0	3	40	29	0.04		
Pembroke ...	29.58	40	N	2	6	29.36	-18	41	39	+ 6	NNN	6	0	3	45	35	0.06		
Portishead ...																			
Scilly ...	29.66	42	NNW	6	0	29.53	-03	47	44	+ 7	N	6	0	5	47	40	0.08		
Plymouth ...	29.60	31	NN	1	0	29.45	-07	39	38	+ 10	N	4	0	*	40	26	-		
Hurst Castle ...	29.56	32	N	1	0	29.42	-04	42	41	+ 14	WSW	5	0	5	42	25	-		
Dover ...	29.45	31	NNN	4	0	29.44	+02	35	34	+ 7	WSW	3	0	2	36	26	-		
London ...	29.51	31	N	1	0	29.40	-07	35	34	+ 10	SSW	3	0	*	35	23	-		
Oxford ...	29.34	27	N	1	0	29.36	-14	34	33	+ 12	NN	2	0	*	35	25	-		
Cambridge ...	29.47	28	NN	1	0	29.31	-14	31	31	+ 3	SW	1	0	*	35	24	-		
Yarmouth ...	29.41	30	NNN	3	0	29.34	-08	30	29	+ 5	SW	3	0	2	33	24	-		
The Helder ...	*	*	*	*	*	29.36	00	36	32	+ 5	SW	2	0	*	*	*	0.24		
Cape Gris Nez ...	29.49	36	N	4	0	29.40	-04	39	37	+ 7	NNN	4	0	3	?	32	0.16		
Jersey ...	29.59	37	N	2	0	29.55	+10	41	40	+ 3	SSW	7	0	5	42	36	0.06		
Brest ...	29.67	43	N	4	0	29.66	+18	45	39	+ 8	N	4	0	3	?	32	0.08		
L'Orient ...	29.61	37	NNN	3	6	29.69	+23	43	37	+ 6	N	4	0	4	45	32	0.04		
Rochefort ...	29.64	45	NNN	6	0	29.84	+34	39	37	+ 2	S	4	0	3	?	32	0.12		
Biarritz ...	29.62	48	N	5	0	29.85	+36	41	37	- 7	SE	2	0	3	50	36	0.47		
Corunna ...	*	*	*	*	*										*	*	*		
Brussels ...	*	*	*	*	*	29.54	+14	28	27	0	SW	4	0	*	34	26	0.04		
Charleville ...	*	*	*	*	*	29.55	+17	26	*	+ 1	SW	3	0	*	*	*	*		
Paris ...	29.54	35	?	4	0	29.71	+25	29	28	- 4	E	1	0	*	*	*	-		
Lyons ...	*	*	*	*	*	29.77	+25	37	*	- 6	NE	2	0	*	*	*	*		
Toulon ...	29.44	41	N	5	0	29.71	+13	34	30	- 9	NN	6	0	6	45	34	0.04		

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

	Bar.	Dry.	Wet.	Wind.	Wes.	Sea.		Bar.	Dry.	Wet.	Wind.	Wes.	Sea.		
Skudesnaes ...	29.32	34	32	E	2	0	2	Valencia .....	29.69	39	38	NN	1	cp	2
Thurso .....	29.32	34	34	L	0	0	3	Scilly .....	29.62	42	38	N	6	c	4
Scarborough ...	29.42	33	32	NN	1	6	2	London .....	29.47	34	33	NN	1	off.	*
Mullaghmore ...	29.56	36	35	SW	4	6	3	Rochefort ...	29.50	43	41	NN	4	be	3
Holyhead .....	29.54	40	38	N	4	6	3								

No important changes.

Mullaghmore	29.47	37	WSW	5	0	29.26	-35	38	34	+5	NNW	8	6	5	41	32	0.25
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## 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.

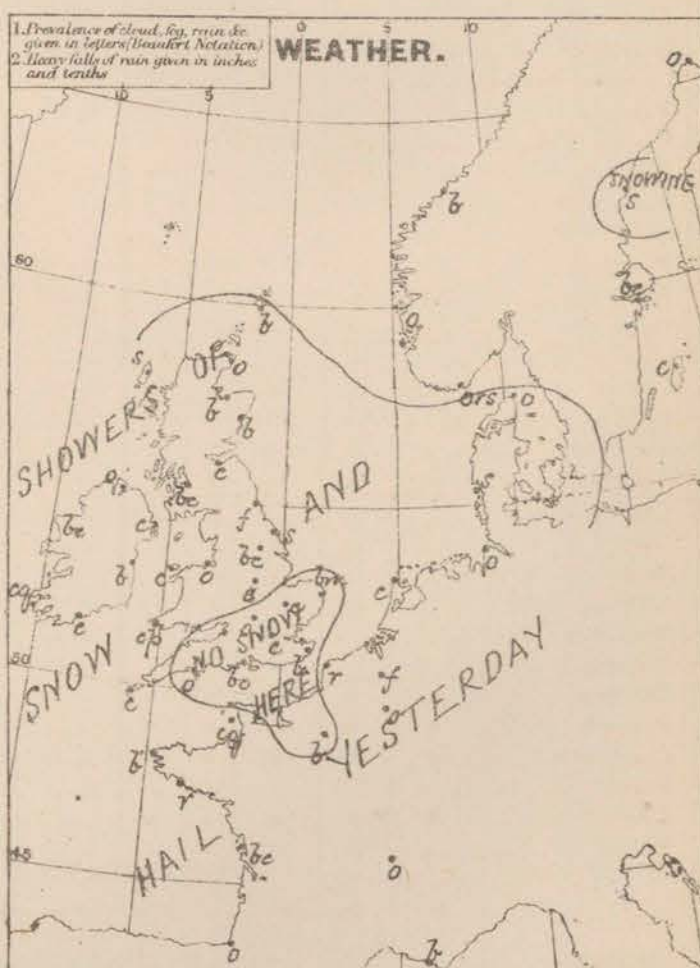
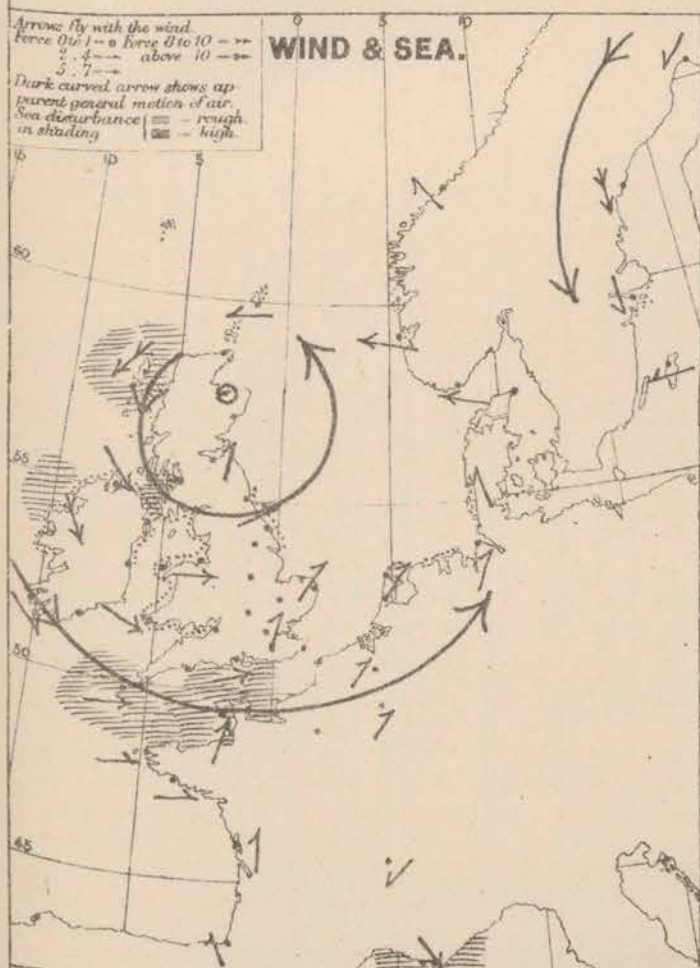
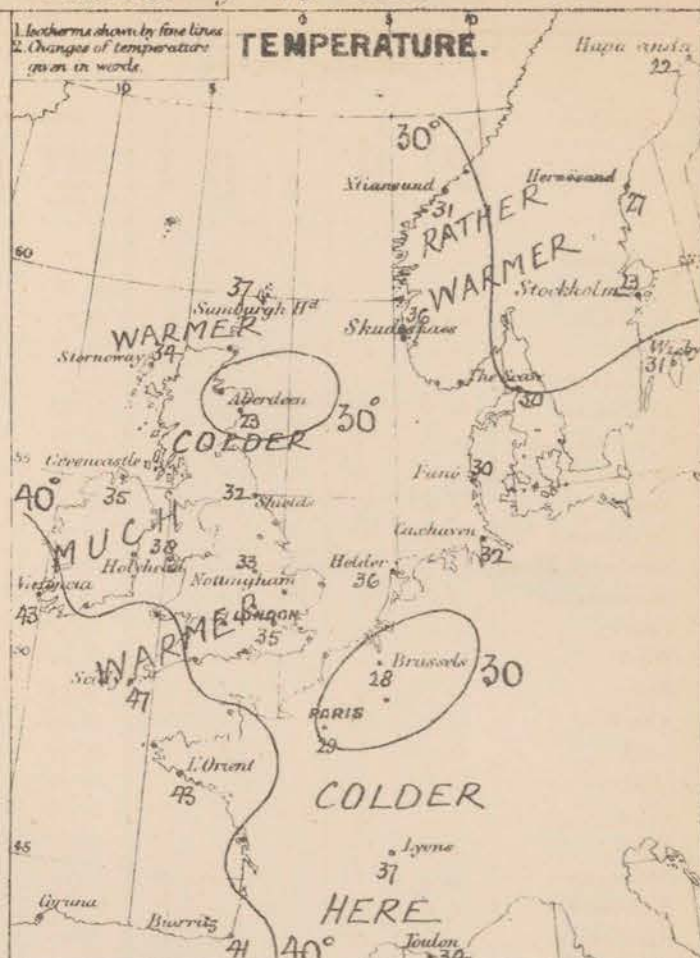
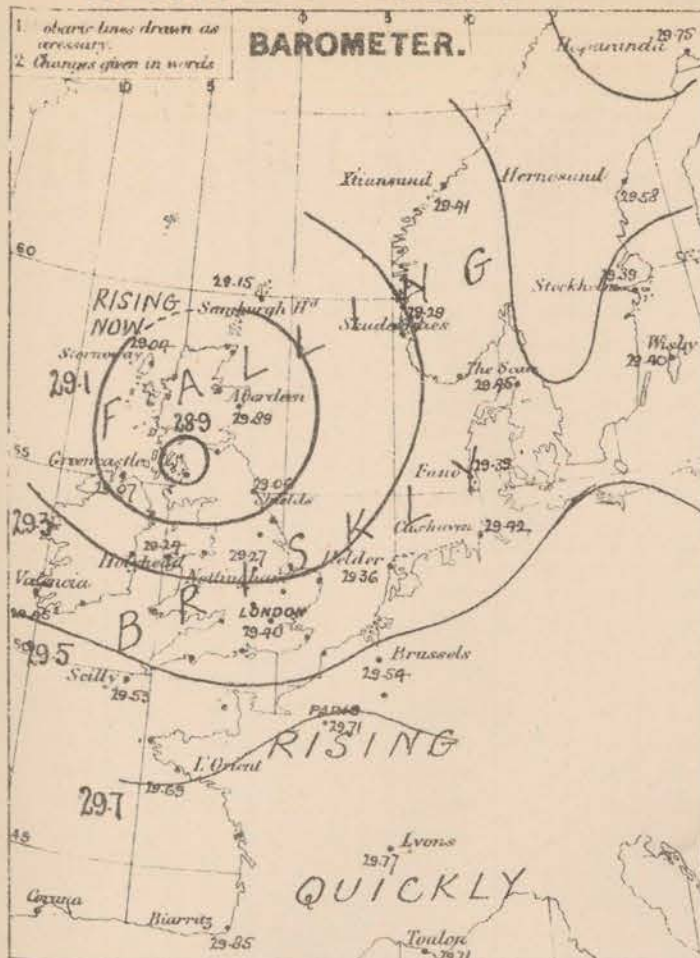
\* AN ASTERISK is inserted in all places for which information is not usually received.

† 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 18<sup>th</sup> DEC<sup>r</sup> 1873.



Double line is drawn round those corners where the signal goes now up.

REMARKS. Weather this morning is very unsettled over our Islands; in most places the sky is cloudy or overcast, and in others showers of snow and cold rain are reported. Showers of snow and hail have fallen on all our N<sup>o</sup> and W<sup>o</sup> coasts as well as at the French stations, but our S<sup>o</sup> and E<sup>o</sup> coasts had escaped up to now; the sky, however, looked very showery in London. Temperature has fallen fast over the E<sup>o</sup> parts of Scotland, and is as low as 22° at Nairn, and 20° at Aberdeen. Over Ireland, England and the N. of France it has risen fast and a thaw is general in those regions. In London the thermometer rose from 23° at night to 35° at dawn. Wind is blowing a gale from NE at Looe, and from NW at Mullaghmore. It is fresh to strong from the W<sup>o</sup> on our W and SW coasts, moderate from SW in the SE, strong from E in Norway, and moderate from the same quarter in the Shetlands and Caithness. Sea is rather rough in the NW, and at the mouth of the Channel, moderate or slight elsewhere.

Barometrical indications. During the past night a rather deep depression has advanced over Scotland from the NW, and the barometer has fallen about 0.4 in. (to 28.9 in.) at Aberdeen. Gradients for NW winds are rather steep in the W, while moderate gradients for SW winds prevail in the E, and for E winds in the far N.

Navigation. The North Line was hoisted on our W, NW and NE coasts last evening.

Subscription for these Charts payable in advance to cover delivery. Delivery by hand  $\text{Rs}$  per quarter, book post  $5/-$  per quarter.

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

**R. H. SCOTT.**  
Secretary



# DAILY WEATHER REPORT

DECEMBER 19TH

1878.

STATIONS.	† YESTERDAY EVENING.					8 A.M. TO DAY.										PAST 24 HOURS.		
	Barometer at 32° F. and Sea Level.	Temp. in shade.	WIND.		Weather.	BAROMETER.		SEASIDE 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	18	NE	4	0	29.52	- .23	11	10	- 11	N	6	0	*	23	?	-	
Hernösand ...	29.49	22	N	6	S	29.43	- .15	20	19	- 7	N	6	0	*	*	*	0.08	
Stockholm ...	29.39	25	NNW	4	0	29.35	- .04	15	15	- 8	NNW	1	0	*	*	*	-	
Wisby ...	...	...	...	...	...	...	...	...	...	...	...	...	...	*	*	*	-	
Christiansund ...	29.36	28	SE	1	0	29.34	- .07	22	21	- 9	SE	2	0	*	30	18	-	
Skudesnaes ...	29.31	35	ESE	6	0	29.26	- .03	30	25	- 6	E	6	0	4	36	?	-	
Oxö (Xtiansand) ...	29.40	33	ESE	6	0	29.22	- .12	31	30	- 3	ESE	8	5	4	?	27	0.79	
Skagen (The Seaw) ...	29.46	28	ESE	5	0	29.27	- .18	28	28	- 2	E	5	5	6	30	23	-	
Fanö ...	29.23	27	E	6	0	29.04	- .35	30	30	0	S	4	e	*	30	27	0.08	
Cuxhaven ...	29.43	30	S	5	f	29.15	- .27	35	35	+ 3	SSW	1	0	*	?	?	-	
Sumburgh Head ...	29.21	36	E	4	0	29.29	+ .14	34	33	- 3	NE	4	c	4	38	32	0.08	
Stornoway ...	29.17	35	NNE	5	0	29.23	+ .19	34	34	0	N	2	s	5	36	32	0.20	
Thurso ...	29.14	37	ENE	4	0	29.24	?	35	35	- 2	E	4	sp	4	39	33	0.36	
Wick ...	29.19	37	ENE	4	0	29.23	+ .22	37	35	+ 1	ESE	4	c	5	39	33	0.25	
Nairn ...	29.03	35	NE	4	+	29.18	+ .21	34	33	+ 12	NE	1	0	2	38	22	0.43	
Aberdeen ...	28.98	37	N	1	om	29.12	+ .12	38	36	+ 15	NE	5	cp	7	39	17	0.21	
Leith ...	28.95	31	ENE	3	0	29.08	+ .14	36	34	+ 5	N	3	c	*	37	26	0.18	
Shields ...	28.88	36	WSW	2	0	29.05	- .01	32	32	0	NN	2	c	2	37	26	0.11	
Scarborough ...	28.95	32	WSW	4	S	29.00	- .12	33	?	0	NN	2	s	2	35	29	0.07	
York ...	29.02	35	SSW	2	0	29.03	- .12	29	28	- 5	N	1	0	*	37	23	0.18	
Nottingham ...	29.10	32	SSW	5	0	29.12	- .15	32	31	- 1	L	0	c	*	38	29	0.18	
Ardrossan ...	29.01	35	NNE	3	0	29.13	+ .24	37	35	- 3	NNN	3	c	2	41	34	0.03	
Greencastle ...	29.09	39	N	5	c	29.21	+ .14	38	35	+ 3	N	3	0	*	40	34	0.43	
Donaghadee ...	29.08	35	NNN	4	0	29.19	+ .08	41	40	+ 9	NNN	6	0	4	41	31	0.10	
Kingstown ...	29.19	35	N	5	0	29.28	- .01	34	32	- 1	NNN	4	0	4	36	33	-	
Holyhead ...	29.10	42	N	6	c	29.17	- .07	42	38	+ 4	NN	6	c	6	43	36	0.18	
Liverpool (Bidston) ...	29.01	35	WSW	6	0	29.12	- .07	38	36	+ 2	NNN	3	0	4	38	33	0.13	
Valencia ...	29.42	38	NN	4	0	29.48	+ .03	34	34	- 9	NNN	1	0	1	43	32	0.50	
Roche's Point ...	29.38	35	NN	4	0	29.42	- .02	37	35	- 1	NNN	4	0	3	40	33	0.03	
Pembroke ...	29.29	40	NNN	5	0	29.29	- .07	39	37	- 2	NNN	4	0	3	42	38	0.03	
Portishead ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	
Seilly ...	29.39	46	NNN	7	0	29.40	- .13	43	39	- 4	NN	6	c	5	48	41	0.16	
Plymouth ...	29.33	38	N	1	0	29.33	- .12	32	32	- 7	N	1	0	*	42	32	0.23	
Hurst Castle ...	29.30	42	N	3	0	29.26	- .16	39	36	- 3	NNN	5	0	5	43	36	0.04	
Dover ...	29.28	38	N	2	0	29.19	- .25	35	33	0	WSW	5	0	4	41	33	0.24	
London ...	29.26	38	N	2	c	29.19	- .21	33	?	- 2	WSW	5	0	5	41	31	0.01	
Oxford ...	29.25	35	SW	2	0	29.20	- .16	33	32	- 1	N	3	s	*	39	32	0.04	
Cambridge ...	29.21	34	SW	2	0	29.11	- .20	32	32	+ 3	SW	2	c	*	40	30	0.02	
Yarmouth ...	29.21	33	SW	2	0	29.08	- .26	32	32	- 2	WSW	2	0	2	35	28	0.07	
The Helder ...	...	...	...	...	...	29.03	- .30	38	35	+ 2	SW	2	0	*	*	*	0.12	
Cape Gris Nez ...	29.30	43	WSW	6	0	29.20	- .23	41	37	+ 2	N	6	0	5	45	39	0.32	
Jersey ...	29.41	44	WSW	7	0	29.37	- .18	41	38	0	NNN	3	c	4	46	40	0.65	
Brest ...	29.50	46	WSW	5	0	29.46	- .20	41	37	- 4	NNN	3	0	4	48	37	0.12	
L'Orient ...	29.58	45	N	4	c	29.46	- .23	41	39	- 2	NNN	3	0	3	48	39	0.12	
Rochefort ...	29.68	37	S	4	0	29.49	- .35	36	36	- 3	S	4	0	3	34	36	-	
Biarritz ...	29.61	50	SSE	4	+	29.47	- .38	50	46	+ 9	S	2	0	3	34	?	0.20	
Corunna ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	
Brussels ...	...	...	...	...	...	29.24	- .30	33	32	+ 5	SW	5	0	*	35	?	0.51	
Charleville ...	...	...	...	...	...	29.37	- .18	28	*	+ 2	N	3	0	*	*	*	*	
Paris ...	29.39	33	?	2	c	29.41	- .30	31	31	+ 2	S	3	0	*	*	*	-	
Lyons ...	...	...	...	...	...	29.56	- .21	39	*	+ 2	NE	2	0	*	*	*	*	
Toulon ...	29.76	39	NN	6	0	29.71	- .05	39	37	+ 5	E	6	0	6	39	34	0.28	

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

	Bar.	Dry.	Wet.	Wind.	Wes.	Sea.		Bar.	Dry.	Wet.	Wind.	Wes.	Sea.		
Skudesnaes ...	29.31	35	29	ESE	8	0	5	Valencia .....	29.44	38	37	N	4	0	4
Thurso .....	29.10	38	37	ENE	4	p	4	Seilly .....	29.42	46	43	NNN	7	c/p	6
Scarborough ...	29.04	35	34	WSW	2	0	2	London .....	29.28	40	39	N	5	c	0
Mullaghmore ..	29.23	37	36	NN	8	2	5	Rochefort ...	29.76	39	37	S	4	0	3
Holyhead .....	29.16	39	36	N	6	c	5								

The depression in the N. is moving SEwards. A further increase of wind is reported on our NW coast but in the E. it is still light from N. to SW. Sea fell in London this morning but the sky has since cleared considerably.

Mullaghmore	29.23	42	N	6	0	29.31	+ .05	37	36	- 1	NNN	6	0	5	42	35	0.28
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## 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.

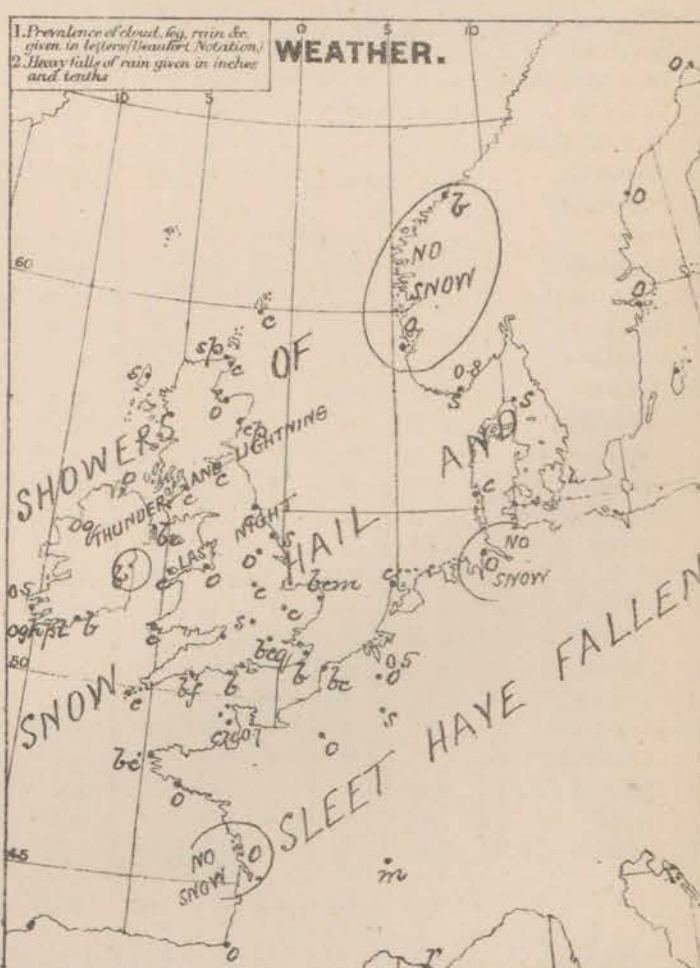
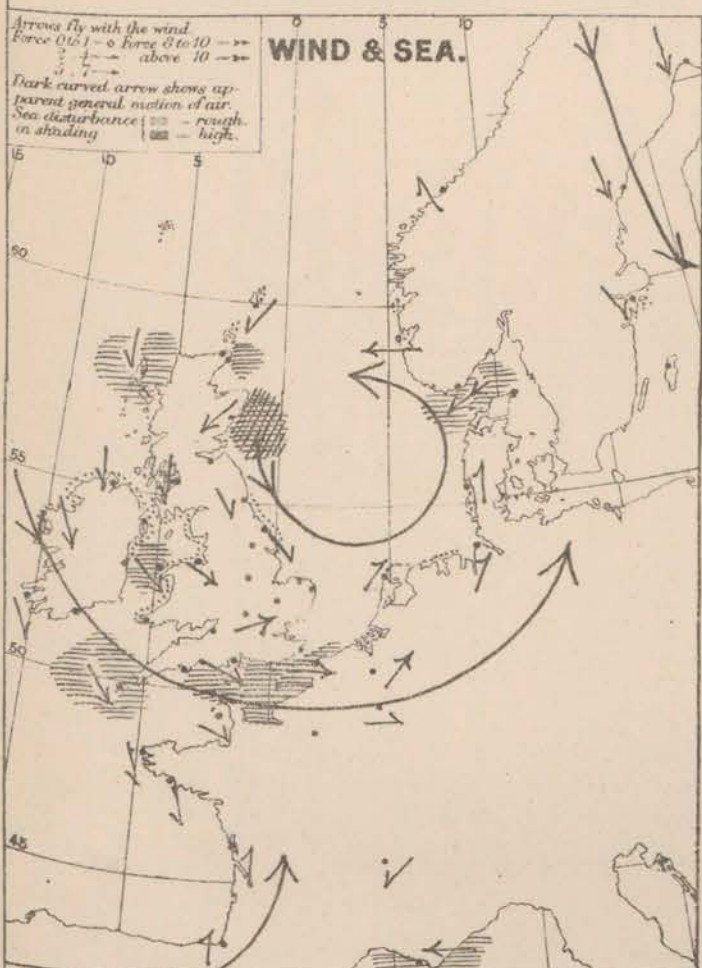
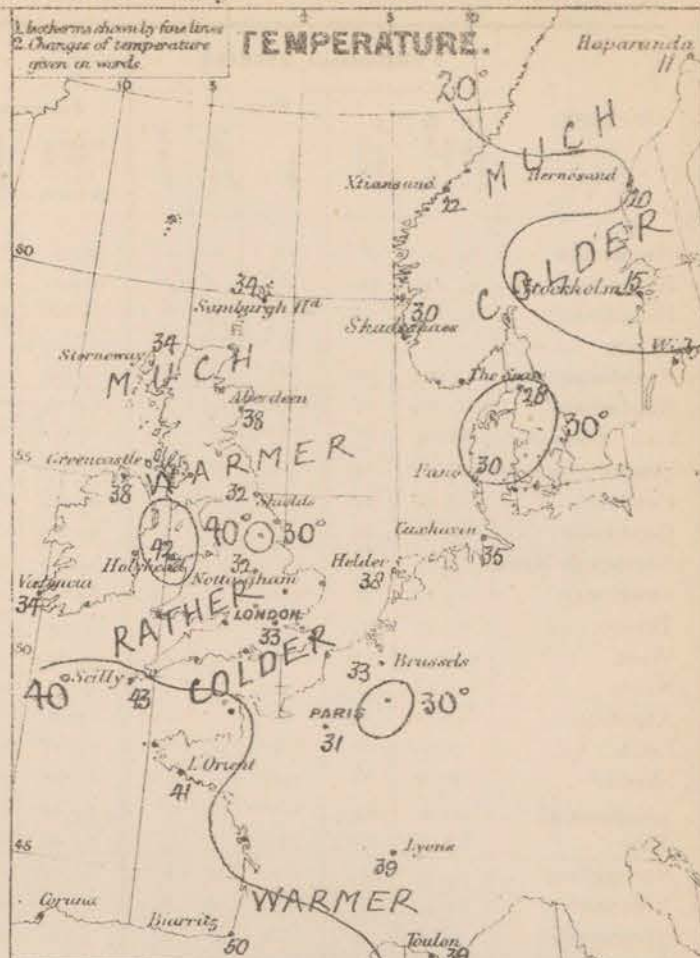
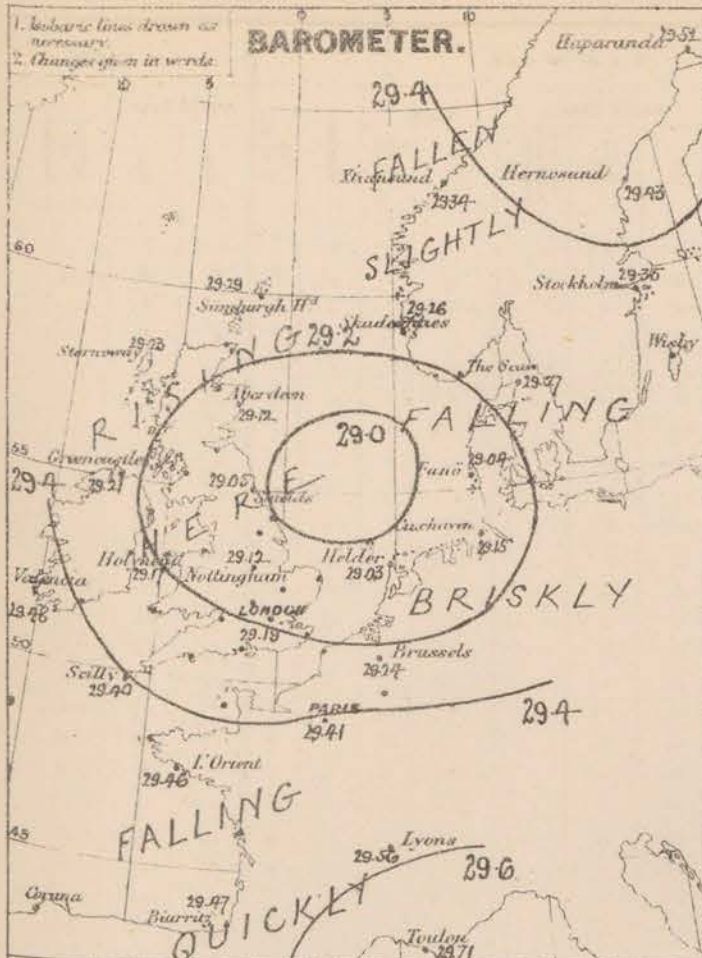
\* AN ASTERISK is inserted in all places for which information is not usually received.

† 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 sea, and to "back" when it shifts in the opposite direction.



# WEATHER CHARTS for 8 a.m. on Thursday 19<sup>th</sup> DEC. 1878.



Decided line is drawn round the coast where the signals are still up.

**REMARKS.** Weather is quiet over the United Kingdom to-day than it was yesterday, but is inclined to be changeable. Showers of snow or hail are falling at several of the W and N stations with lightning at Valentia, and the sky is, on the whole, cloudy. Thunder and lightning occurred at many of our N and NW stations during the night, and showers of snow, hail, or sleet, have fallen in most places. Temperature has risen fast in Scotland and the N of Ireland, but fallen fast over Scandinavia, and slightly in England. The readings in our Islands this morning vary from 29° at York to 43° at Scilly, while at Harwich, 50° is recorded. Hard frost prevails in Sweden and the W of Norway. Wind is strong to a gale from E. in Norway, from N.E. in Scotland, strong from NW in our W coasts, fresh from W. in the S. and light from the S. in Holland and Denmark. Sea is high at Aberdeen, rough or rather so at several of our NW, W and S stations. Barometrical indications. The depression which lay over Scotland yesterday morning is now over the North Sea, and the barometer is rising in the N and W, but falling in the S.E. Over the Bay of Biscay also it has begun to fall somewhat decidedly during the night, as though a new depression were advancing towards France from the Atlantic.

Subscription for these Charts payable in advance to cover delivery. Delivery by hand 1/6 per quarter, book post 5/- per quarter.

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

R. H. SCOTT.  
Secretary.



# DAILY WEATHER REPORT

DEC. 20<sup>th</sup>

1878.

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.			
			Direc.	Force. (0 to 12).			Dry.	Wet.	Difference from 8 a.m. yesterday.	Direc.	Force. (0 to 12).			Max.	Min.				
Haparanda ...	29.39	10	N	4	b	29.21	- .31	12	12	+ 1	N	2	0	*	14	7	-		
Hernösand ...	29.40	1	N	2	b	29.35	- .08	12	11	- 8	NNW	4	0	*	*	*	-		
Stockholm ...	29.28	13	Z	0	0	29.15	- .20	19	18	+ 4	SSE	4	0	*	*	*	-		
Wiseby ...	29.18	30	ENE	6	s	28.98		32	31		E	4	3	*	*	*	0.16		
Christiansund ...	29.29	22	SE	2	b	29.31	- .13	21	20	- 1	Z	0	0	2	23	?	-		
Skudesnaes ...	29.26	28	ENE	4	b	29.27	+ .01	31	28	+ 2	SSE	6	0	4	?	28	-		
Oxö (Årland) ...	29.21	25	NNE	8	0	29.33	+ .11	17	16	- 14	NNW	2	0	3	?	14	-		
Skagen (The Sound)	29.16	27	E	6	s	29.27	.00	27	25	- 1	NNE	4	0	4	30	25	0.08		
Fanö ...	29.01	31	ENE	4	0	29.37	+ .33	24	24	- 6	N	4	0	*	32	23	0.04		
Cuxhaven ...	29.06	35	SW	4	r	29.39	+ .24	35	34	- 0	N	4	0	*	?	32	0.02		
Sumburgh Head	29.30	32	NNE	3	0	29.40	+ .11	33	32	- 1	NNE	3	0	3	35	29	0.03		
Stornoway	29.37	32	N	2	0	29.50	+ .27	34	34	0	NNE	7	5	5	37	31	0.03		
Thurso ...	29.38	24	SSE	2	0	29.46	+ .22	31	?	- 4	NNE	2	0	4	38	23	0.05		
Wick ...	29.36	25	N	1	0	29.44	+ .21	32	31	- 5	NN	2	0	2	38	24	0.02		
Nairn ...	29.38	33	Z	0	0	29.47	+ .29	29	29	- 5	N	1	0	2	34	27	0.02		
Aberdeen ...	29.31	32	N	3	0	29.40	+ .28	33	32	- 5	NN	3	0	4	39	24	0.04		
Leith ...	29.32	35	NE	2	0	29.45	+ .37	22	22	- 14	N	2	0	*	38	20	0.02		
Shields ...	29.27	38	NNE	3	0	29.47	+ .42	22	22	- 10	NN	3	0	2	39	21	0.20		
Scarborough ...	29.21	39	N	3	0	29.46	+ .46	29	?	- 4	N	2	0	3	39	28	0.13		
York ...	29.26	35	NW	1	0	29.49	+ .46	18	18	- 11	N	1	0	*	37	17	0.02		
Nottingham ...	29.28	32	Z	0	0	29.51	+ .39	18	17	- 14	Z	0	0	*	38	16	-		
Ardrossan ...	29.34	33	NNE	1	0	29.48	+ .35	23	23	- 14	ESE	1	0	0	38	23	-		
Greencastle ...	29.31	31	N	1	0	29.57	+ .30	29	29	- 9	NN	1	5	*	39	25	-		
Donaghadee ...	29.38	33	NN	3	0	29.50	+ .31	32	32	- 9	N	3	0	2	41	32	0.44		
Kingstown ...	29.39	34	N	4	0	29.49	+ .21	31	30	- 3	NNN	3	0	4	36	27	-		
Holyhead ...	29.33	44	NNN	5	0	29.45	+ .28	35	34	- 7	NNN	1	0	1	43	35	0.21		
Liverpool (Midston)	29.32	37	NN	1	0	29.47	+ .35	32	32	- 6	SEW	1	0	1	39	32	0.06		
Valencia ...	29.34	35	NNE	1	r	29.41	- .07	36	35	+ 2	SSW	2	r	1	42	29	0.37		
Roche's Point...	29.48	26	NN	4	0	29.48	+ .06	28	27	- 9	N	2	0	3	39	27	-		
Pembroke ...	29.42	39	NNN	3	0	29.47	+ .18	35	34	- 4	NE	1	0	2	41	34	-		
Portishead ...	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*		
Scilly ...	29.50	42	NNN	6	0	29.49	+ .09	38	36	- 5	Z	0	0	4	45	37	0.11		
Plymouth ...	29.45	35	SW	3	0	29.48	+ .15	27	27	- 5	NE	1	0	*	40	26	0.04		
Hurst Castle ...	29.40	39	NN	3	0	29.47	+ .21	29	29	- 10	NE	2	0	2	42	26	-		
Dover ...	29.32	36	N	4	0	29.49	+ .30	32	31	- 3	NNE	2	0	1	38	31	-		
London ...	29.34	38	NNN	3	0	29.48	+ .29	31	?	- 2	Z	0	0	*	40	28	-		
Oxford ...	29.36	33	NN	2	0	29.49	+ .29	29	29	- 4	N	1	0	*	39	28	-		
Cambridge ...	29.28	35	SW	1	0	29.49	+ .38	25	24	- 9	N	1	0	*	40	25	-		
Yarmouth ...	29.20	32	N	3	0	29.47	+ .39	23	22	- 9	N	2	0	3	34	22	-		
The Helder ...	*	*	*	*	*	29.41	+ .38	37	36	- 1	NNN	1	0	*	*	*	0.20		
Cape Gris Nez	29.33	43	NNN	5	0	29.48	+ .28	36	34	- 5	SSE	1	0	0	43	34	-		
Jersey ...	29.51	41	NN	3	0	29.49	+ .12	35	34	- 6	NE	1	0	1	46	34	0.13		
Brest ...	29.57	45	NN	2	0	29.49	+ .03	36	34	- 5	E	2	0	3	46	36	-		
L'Orient ...	29.58	41	NN	2	0	29.50	+ .04	36	34	- 5	E	1	0	3	46	32	-		
Roche fort ...	29.64	45	NE	2	0	29.50	+ .01	37	36	+ 1	E	3	0	3	55	32	0.04		
Biarritz ...	29.64	48	ENE	2	0	29.38	- .09	45	41	- 5	ENE	1	0	3	34	39	0.10		
Corunna ...	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*		
Brussels ...	*	*	*	*	*	29.52	+ .28	32	31	- 1	S	2	0	*	36	32	-		
Charleville ...	*	*	*	*	*	29.54	+ .17	31	*	+ 3	S	3	0	*	*	*	*		
Paris ...	29.54	35	?	3	0	29.56	+ .15	28	28	- 3	S	1	0	*	*	*	-		
Lyons ...	*	*	*	*	*	29.54	- .02	42	*	+ 3	NNN	2	0	*	*	*	*		
Toulon ...	29.68	43	ENE	6	0	29.56	- .15	46	46	+ 7	E	5	0	5	46	37	0.04		

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

	Bar.	Dry.	Wet.	Wind.	Wes.	Sea.		Bar.	Dry.	Wet.	Wind.	Wes.	Sea.		
Skudesnaes ...	29.21	28	24	ENE	6	c	3	Valencia .....	29.51	38	36	NNN	3	Dephs	3
Thurso .....	29.34	37	36	NE	3	0	4	Scilly .....	29.47	44	40	NN	6	c	4
Scarborough ...	29.12	35	35	NNN	3	sh	2	London .....	29.25	39	37	NNN	3	0	*
Mullaghmore...	29.35	38	37	NN	5	cq	5	Roche fort ...	29.34	45	43	S	3	0	3
Holyhead .....	29.27	41	39	NNN	6	c	5								

No important change.

Mullaghmore	29.35	37	NNW	5	c	29.51	+ .20	31	?	- 6	E	4	0	39	30	0.12
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## 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.

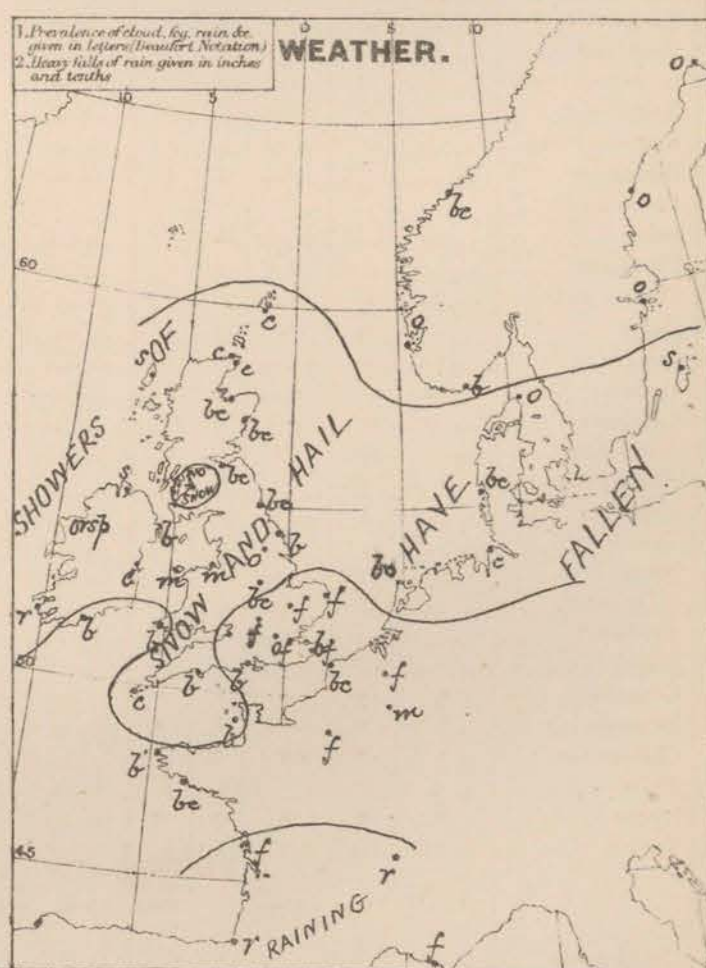
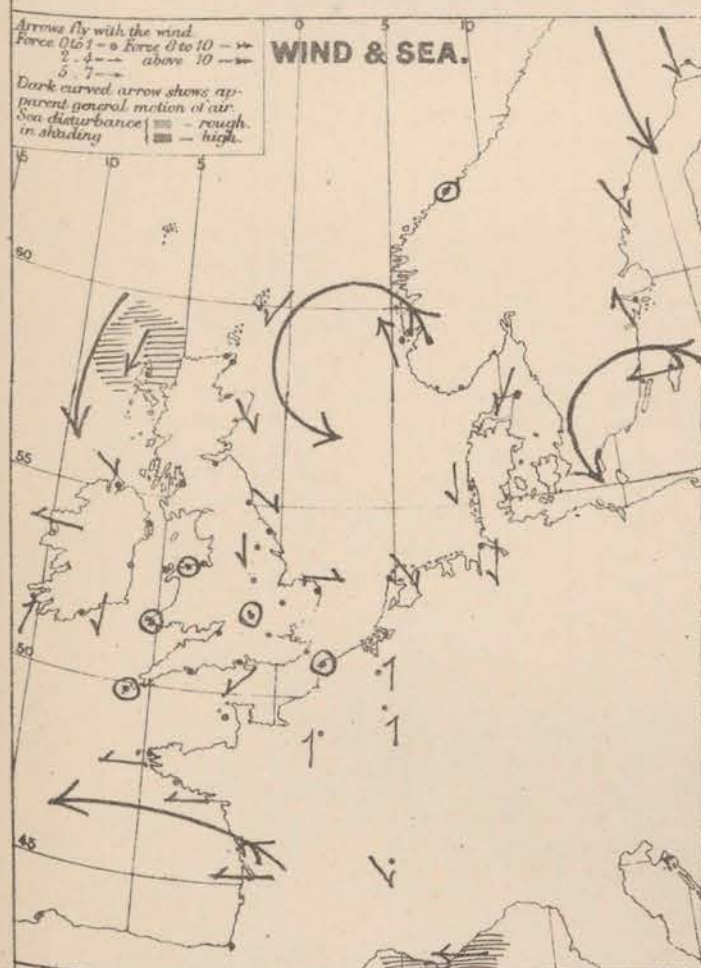
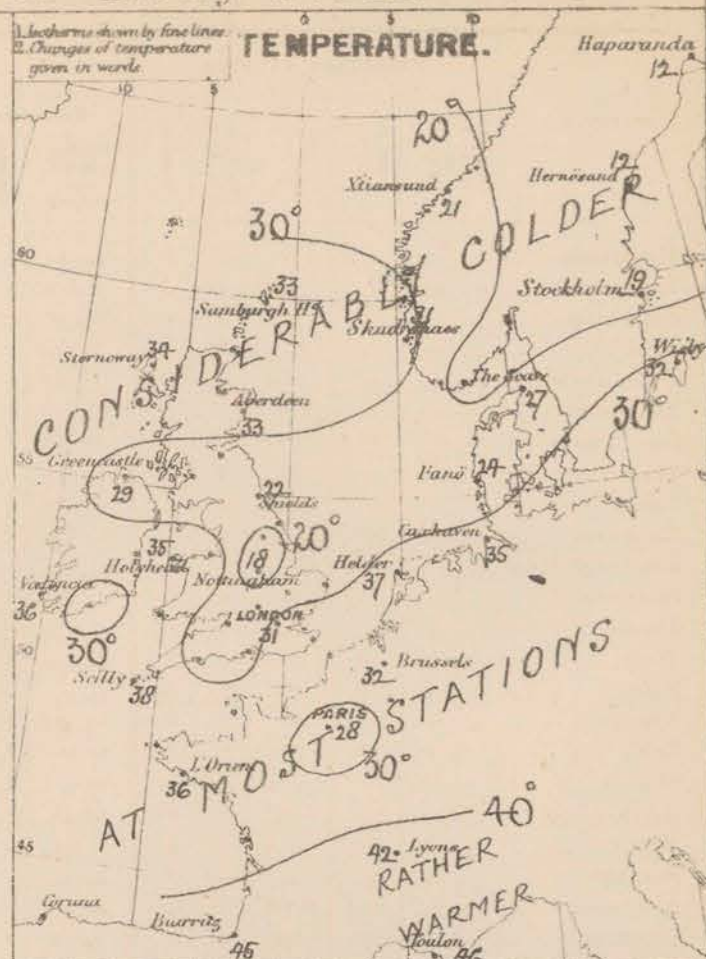
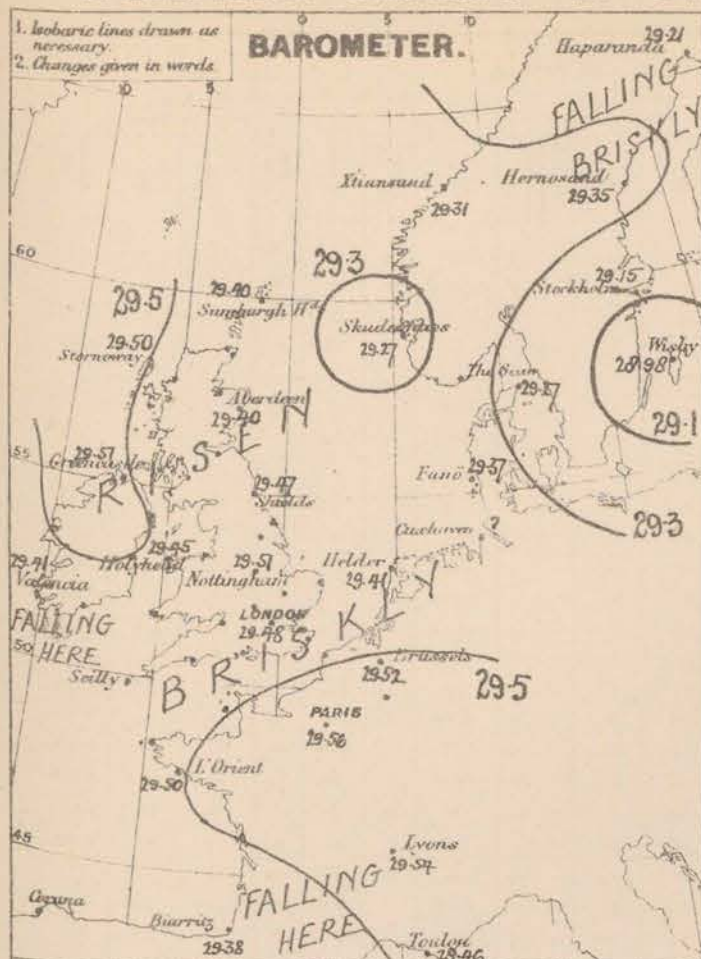
\* AN ASTERISK is inserted in all places for which information is not usually received.

† 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 to the opposite direction.



WEATHER CHARTS for 8 a.m. on Friday 20. DEC<sup>R</sup> 1878.



REMARKS. Weather this morning is fine over nearly the whole of Great Britain, but snow and rain are falling at all stations in the W. and N. of Ireland, and at Slieve Donard. Thick fog prevails in the E. of England, notably in London. Showers of snow and hail fell in the N. and W. yesterday. Temperature has decreased very generally rapidly over England, and has just again prevailed at our E<sup>m</sup> and Central stations, and at Paris, as well as on the E. shores of the North Sea. Wind is very light and variable in almost all parts of the United Kingdom, but is E<sup>ly</sup> in the W. of France. A strong NNE breeze is reported locally in the Hebrides. Sea is moderate to smooth, except at Loughmoe.

Barometrical Indications. During the past 24 hours the barometer has risen over an Island, but has begun to fall fast in the SW. of France and at Valparaiso during the night. The distribution of pressure this morning is very irregular, and very unsettled weather, with snow, seems probable.



# DAILY WEATHER REPORT

DECEMBER 21<sup>st</sup> 1878.

STATIONS.	† YESTERDAY EVENING.					8 A.M. TO DAY.										PAST 24 HOURS.		
	Barometer at 32° F. and Sea Level.	Temp. in shade.	WIND.		Weather.	BAROMETER.		SHADE TEMP.			WIND.		Weather.	Sea. (0 to 9.)	SHADE TEMP.		Amount of Rainfall.	
			Dir.	Force. (0 to 12).		Reading at 8 a.m. and Sea Level.	Difference from 8 a.m. yesterday.	Dry.	Wet.	Difference from 8 a.m. yesterday.	Dir.	Force. (0 to 12).			Max.	Min.		
Haparanda ...	29.15	11	Z	0	b	29.18	- .03	17	17	+ .5	Z	0	s	*	?	9	-	
Hernösand ...	29.30	4	Z	0	b	29.28	- .07	-5	?	- .17	Z	0	b	*	*	*	-	
Stockholm ...	29.25	14	NNW	4	0	29.30	+ .15	14	13	- .5	SSW	2	0	*	*	*	-	
Wisby ...	29.18	28	N	8	0	29.26	+ .38	28	26	- .4	SSW	4	r	*	*	*	0.12	
Christiansund ...	29.29	27	SSW	5	c	29.13	- .18	30	29	+ .9	NNW	6	c	4	30	? 16	0.04	
Skudesnaes ...	29.34	26	Z	0	0	29.34	+ .07	30	30	- .1	E	6	s	4	?	25	-	
Oxö (Klinsand) ...	29.33	19	N	4	0	29.38	+ .05	13	12	- .4	NNW	1	b	1	19	10	-	
Skagen (The Seaw) ...	29.36	26	NNW	2	0	29.39	+ .12	24	23	- .3	N	4	b	5	28	19	0.04	
Fanö ...	29.37	33	NNW	4	b	29.43	+ .06	33	31	+ .9	NNW	4	chp	*	34	21	0.16	
Cuxhaven ...														*				
Sumburgh Head ...	29.50	33	NNE	4	b	29.49	+ .09	29	28	- .4	NNE	5	c	5	36	28	0.02	
Stornoway ...	29.67	34	N	5	b	29.72	+ .22	33	33	- .1	N	2	b	4	35	30	0.27	
Thurso ...	29.01	37	NNW	5	b	29.63	+ .17	36	35	+ .5	NNW	4	sp	5	39	?	0.11	
Wick ...	29.61	35	NNW	4	0	29.62	+ .18	32	31	0	NNW	3	b	2	37	30	0.20	
Nairn ...	29.63	34	NNW	3	b	29.70	+ .23	30	30	+ .1	NNW	1	b	2	35	28	0.07	
Aberdeen ...	29.57	32	NNW	2	b	29.65	+ .25	30	29	- .3	NNW	3	c	2	35	30	0.23	
Leith ...	29.56	32	N	2	c	29.72	+ .27	27	28	+ .5	NNW	1	b	*	35	22	0.04	
Shields ...	29.53	24	NNW	2	b	29.72	+ .25	27	26	+ .5	NNW	4	b	2	34	21	0.17	
Scarborough ...	29.53	29	NNW	2	b	29.68	+ .22	34	33	+ .5	NNW	2	cps	3	36	29	0.16	
York ...	29.57	20	NNW	1	b	29.73	+ .24	32	31	+ .4	N	3	b	*	33	17	-	
Nottingham ...	29.60	26	Z	0	0	29.78	+ .27	15	15	- .3	Z	0	b	*	27	14	-	
Ardrossan ...	29.61	35	NNE	2	0	29.79	+ .31	28	27	+ .5	E	1	b	0	38	23	-	
Greenecastle ...	29.62	33	SE	2	0	29.81	+ .33	32	32	+ .3	NNW	2	b	*	38	26	0.02	
Donaghadee ...	29.64	36	N	3	b	29.85	+ .35	32	31	0	NNW	3	c	2	35	29	0.08	
Kingstown ...	29.64	28	NNW	4	b	29.88	+ .39	28	27	- .3	N	4	b	4	31	26	-	
Holyhead ...	29.59	34	Z	0	b	29.82	+ .37	39	37	+ .4	NNW	3	r	3	40	34	0.16	
Liverpool (Midstn) ...	29.59	31	N	1	f	29.80	+ .33	31	30	- .1	NNW	1	b	1	?	26	-	
Valencia ...	29.72	34	ENE	1	b	29.99	+ .58	31	30	- .5	Z	0	b	1	38	27	0.10	
Roche's Point... ..	29.68	34	NE	4	b	29.93	+ .45	31	30	+ .3	N	2	b	3	40	27	-	
Pembroke ...	29.57	35	N	1	b	29.81	+ .34	34	34	- .1	NNW	1	csp	1	39	32	0.02	
Portishead ...																		
Seilly ...	29.56	38	Z	0	op	29.87	+ .38	42	38	+ .4	N	6	c	4	42	37	0.20	
Plymouth ...	29.57	31	NNE	1	b	29.85	+ .37	27	27	0	N	1	b	*	37	26	-	
Hurst Castle ...	29.56	31	NE	1	f	29.80	+ .33	30	29	+ .1	N	2	of	3	?	29	-	
Dover ...	29.53	31	N	3	b	29.76	+ .27	28	27	- .4	NNW	1	of	1	35	27	-	
London ...	29.58	32	NNW	1	om	29.77	+ .29	28	?	- .3	NNW	2	ogm	*	34	27	-	
Oxford ...	29.59	30	Z	0	0	29.80	+ .31	28	28	- .1	NNW	1	0	*	32	28	-	
Cambridge ...	29.57	27	Z	0	f	29.76	+ .27	27	27	+ .2	N	1	0	*	30	23	-	
Yarmouth ...	29.54	26	N	2	f	29.69	+ .22	25	25	+ .2	N	2	f	3	29	19	-	
The Helder ...						29.60	+ .19	37	35	0	NNW	2	c	*	*	*	-	
Cape Gris Nez ...	29.53	36	NE	1	0	29.70	+ .25	32	32	- .4	NE	1	0	0	34	32	-	
Jersey ...	29.59	38	Z	0	b	29.80	+ .31	36	35	+ .1	N	2	cm	2	44	34	0.01	
Brest ...	29.56	45	E	1	r	29.82	+ .33	36	32	0	NE	2	b	3	46	30	0.16	
L'Orient ...	29.58	41	SW	1	r	29.85	+ .35	34	34	- .2	NNW	3	b	3	45	30	0.16	
Rochefort ...	29.53	45	NNW	2	0	29.76	+ .26	41	39	+ .4	NNW	2	0	3	32	32	0.35	
Biarritz ...	29.88	50	Z	0	r	29.91	+ .53	46	43	+ .1	NNW	6	0	4	32	41	0.75	
Corunna ...																		
Brussels ...						29.73	+ .21	31	31	- .1	SW	4	f	*	33	30	0.04	
Charleville ...						29.79	+ .25	28	*	- .3	SSE	3	f	*	0	*	*	
Paris ...	29.64	28	?	2	f	29.76	+ .20	25	25	- .3	S	1	0	*	*	*	-	
Lyon ...						29.83	+ .29	38	*	- .4	E	2	m	*	*	*	*	
Toulon ...	29.45	32	SW	3	b	29.73	+ .17	37	32	- .9	NNW	6	b	6	34	36	-	

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

	Bar.	Dry.	Wet.	Wind.	Wen.	Sea.		Bar.	Dry.	Wet.	Wind.	Wen.	Sea.		
Skudesnaes ...	29.31	26	25	Z	0	0	3	Valencia .....	29.57	35	34	NE	3	0	4
Thurso. ....	29.25	38	37	NNE	4	0	4	Seilly .....	29.50	40	38	SSW	4	0	4
Scarborough ...	29.49	31	30	NNW	1	6	3	London .....	29.57	34	33	Z	0	0.04	•
Mullaghmore ..	29.59	37	36	N	1	0	3	Rochefort ...	29.52	41	39	NNW	2	0	3
Holyhead .....	29.51	38	36	NE	3	0	3								

No important change has occurred since the morning. —

Mullaghmore	29.56	37	NNE	3	0	29.91	+ .40	35	34	+ .4	ENE	3	c	2	35	28	0.06
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## EXPLANATION OF COLUMNS.

WEATHER.—Bewford 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.

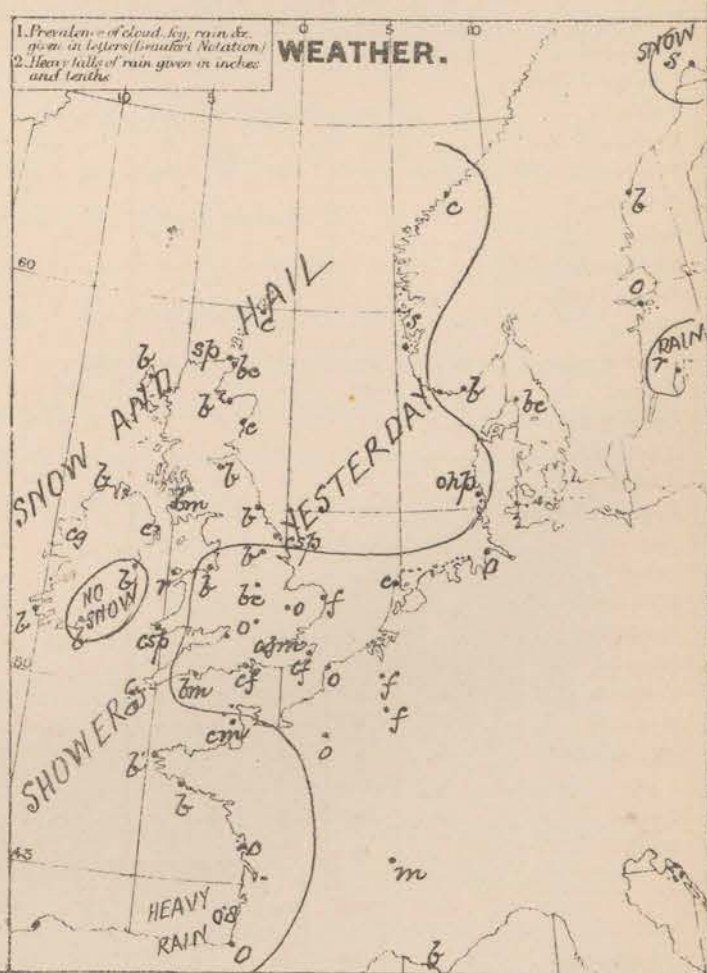
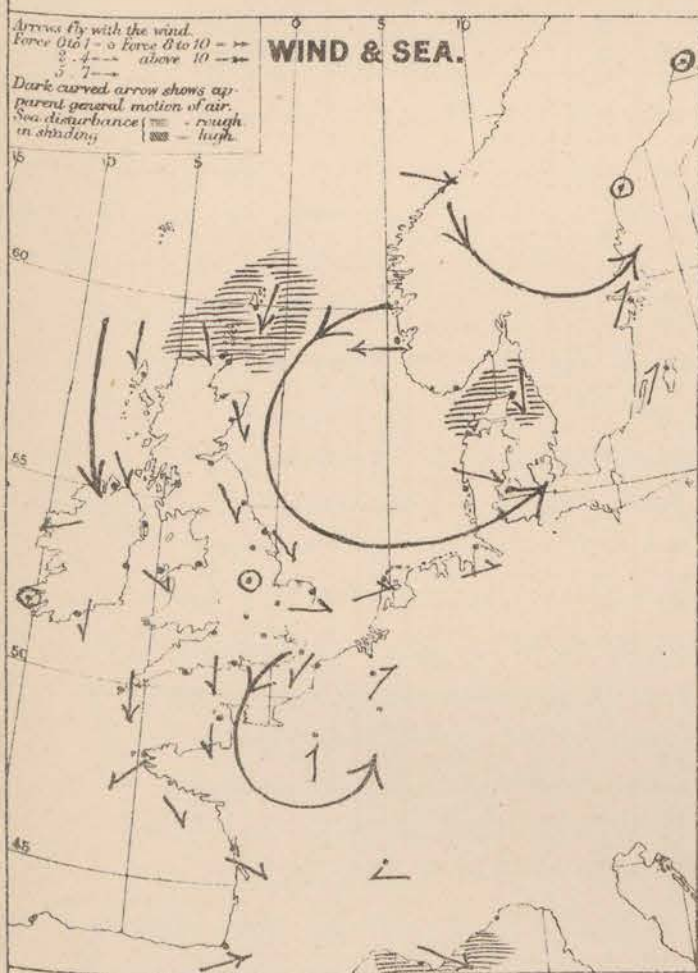
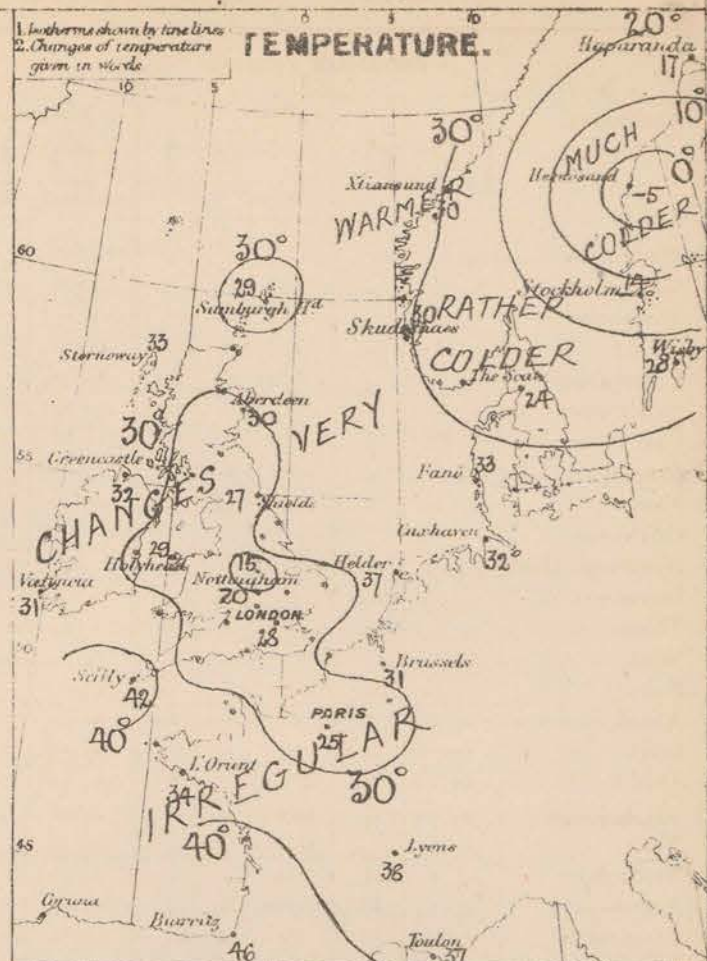
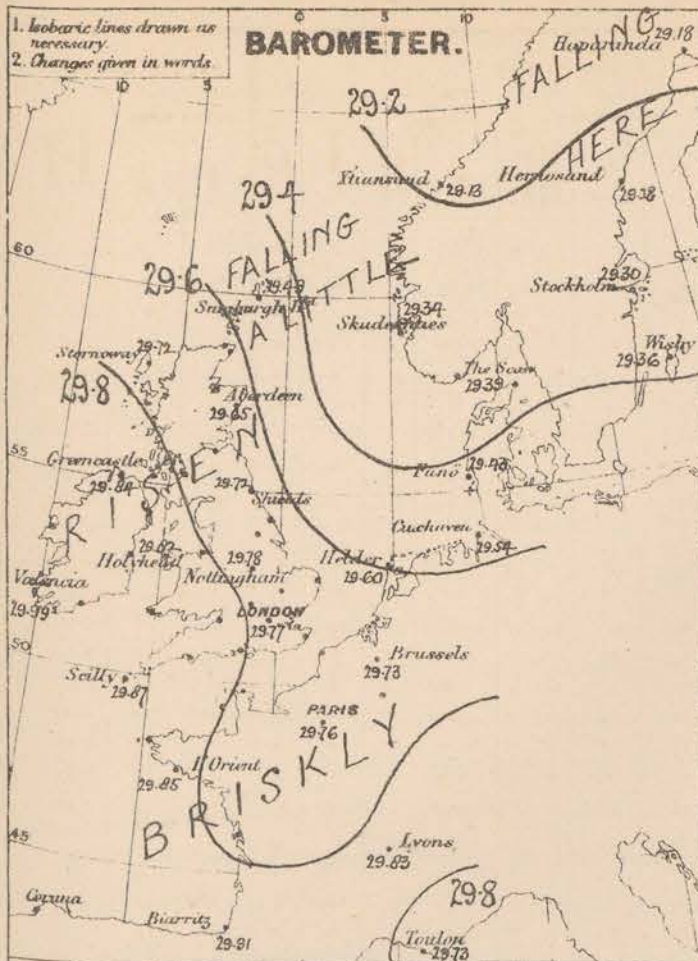
\* AN ASTERISK is inserted in all places for which information is not usually received.

† 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 "rear" 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 21<sup>st</sup> DEC<sup>r</sup> 1878



**REMARKS.** Weather varies a good deal this morning, the sky is clear or nearly so at many of our more N<sup>o</sup> stations, as well as in several parts of Iceland and the NW of France, elsewhere a considerable amount of cloud prevails, and at Skudesness, Scarborough and Pembroke snow is falling. Some fog and mist is reported. Slight snow or hail showers have occurred in the W. and N. and heavy rain at Biarritz. Temperature has changed very irregularly, at present ranges from 32° at Scilly to 15° at Nottingham; during last night the thermometer fell to 14° in the shade at Nottingham, to 17° at York, 19° at Yarmouth, and to 27° in London, while on the coast at Nottingham the thermometer fell to 11°. Wind is N<sup>o</sup> to NW, or west of our own and the French coast, but is W<sup>o</sup> in the S. of France and at St. Petersburg, E<sup>o</sup> at Skudesness, and S<sup>o</sup> in the Baltic. It is light or moderate in force at all our stations except the Shetlands and the Scillys. Sea is rather rough in the N, moderate to slight elsewhere. **Barometrical indications.** Pressure is decreasing somewhat at St. Petersburg, and has begun to give way slightly at our extreme N<sup>o</sup> stations, but is increasing in all other places — quickly in the W. and SW. An area of high readings is shown off our W<sup>o</sup> coast, while three depressions are visible one over the N. of Scandinavia, a second over the North Sea, and a third over the N. of France.

Subscription for these Charts payable in advance to cover delivery. Delivery by hand 4/- 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 DEC<sup>r</sup> 15<sup>th</sup> to DEC<sup>r</sup> 21<sup>st</sup> 1878.

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

Pressure during this period, though rather unsteady, has not been subject to any very considerable changes. On the 15<sup>th</sup> the barometer was highest over the NW of Spain, and lowest near the Shetlands, and W<sup>ly</sup> breezes prevailed generally, but on the 16<sup>th</sup> a rapid decrease of pressure took place over the Bay of Biscay, and a large area of low readings, was shown over NW Europe with light variable airs. This area of low readings subsequently moved NE<sup>wd</sup> to the Channel where it filled up. On the evening of the 17<sup>th</sup> a rapid fall of the barometer was signalled from the Hebrides, and during that night and the following day a deep depression passed SE<sup>wd</sup> across Scotland, causing brisk N<sup>ly</sup> to NW<sup>ly</sup> winds generally, and fresh gales at Mullaghmore Hornway. The disturbance subsequently passed SE<sup>wd</sup> and E<sup>wd</sup> across the North Sea, the mercury recovered over these Islands, and the N<sup>ly</sup> to NW<sup>ly</sup> winds fell lighter. On Friday the barometer was rising generally, readings were very uniform over our neighbourhood, and light variable airs again prevailed but on Saturday a fresh fall occurred over our NW coast, and spread over us, bringing a further rise of the N<sup>ly</sup> wind in the N. Temperature has been very low and has oscillated rather largely, a general rise of several degrees being reported on Sunday and Wednesday, while on the other days falls have been reported. In the E. and NE. the frost has been very slightly interrupted. The weather has been moderately fair though with frequent snow showers.

SUNDAY DEC<sup>r</sup> 15<sup>th</sup>

Weather fine in the Shetlands, Hebrides, some parts of Ireland and the NW of France, cloudy elsewhere, snow falling in Caithness. Snow showers occurring in many places (except on our E. coast) later in the day.

Temperature falling in the N of Scotland and N. of France rising briskly elsewhere. Frost breaking up over England during the day.

Winds NW<sup>ly</sup> generally, but drawing into SW and S. to the E<sup>rd</sup> of the North Sea; light or moderate except in the SW.

Moderate N<sup>ly</sup> gale reported at Scilly at 6 P.M., and a temporary breeze from SW. felt over England in course of day.

Sea rough in the SW, moderate to slight on our other coasts.

Barometer rising slightly in the S, falling elsewhere. Depression shown near the Shetlands and subsidiary disturbances in the N., the latter crossing England during the day. Mercury falling everywhere at 6 P.M. Readings highest over Spain and the Bay of Biscay.

MONDAY DEC<sup>r</sup> 16<sup>th</sup>

Weather very variable, clear at many N<sup>ly</sup> and NW<sup>ly</sup> stations, cloudy and very foggy in England, raining in France snow at Brussels. Dense black fog in London during the day, slight snow and cold rain subsequently.

Temperature fallen in the NE. and NW., risen elsewhere, varying from 45° at Scilly to 32° at Ardrossan. Minima in following night 18° at Northwich and Yarmouth, and between 30°-25° at the English inland stations.

Winds very variable in direction, and light over the British Isles. Little change during day.

Sea nearly smooth

Barometer falling except in Sweden, - slowly over these Islands, briskly over the Bay of Biscay. Large area of low pressure lying over the North Sea, the United Kingdom and NW of France, having three minima in it.

TUESDAY DEC<sup>r</sup> 17<sup>th</sup>

Weather fine over the greater part of these Islands, but dull and hazy over France, and the SE. of England, snow at Harrogate. Showers of snow and hail general during day except in the S and SE. of England.

Temperature lower in the S and W. and higher in the N. and NW. than on the 16<sup>th</sup>; varying from 40° at Scilly to 21° at Northwich. Over England the thermometer appears to have risen during the succeeding 24 hours.

Winds light or moderate in force at all stations excepting Scilly, - generally NW<sup>ly</sup> to N<sup>ly</sup>, but backing to SW in the NW., and freshening during the day.

Sea nearly smooth except off Scilly

Barometer falling slightly at our N<sup>ly</sup> and E<sup>ly</sup> stations, and briskly over France, rising in the SW. Rapid fall subsequently taking place at Hornsey, and depressions advancing from NW towards the N. of Scotland.



WEDNESDAY DEC<sup>r</sup> 18<sup>th</sup>

Weather unsettled, sky clear in the extreme NE., but cloudy, generally cheerless, with snow in several places. Showers of snow, hail and sleet during the day, and thunder and lightning general in the N.W. and N. at night.

Temperatures fallen in the NE. of Scotland, risen elsewhere - many degrees in the W. and S. Reading varying from 47° at Scilly to 22° at Nairn. Minima in following night not very low except at Aberdeen and Nairn.

Wind E<sup>ly</sup> in the far N., N.W.<sup>ly</sup> to W.<sup>ly</sup> in the N., S.W.<sup>ly</sup> in the SE. and S.<sup>ly</sup> in Denmark, but N.<sup>ly</sup> over the Baltic; fresh to strong at our N<sup>th</sup> stations and strong gale at Stromsø and Mallesø. Strong and squally all day except on our E. coast.

Sea rough N.W., W., and S.

Barometer falling except over France and N. Germany - rapidly in Scotland, but beginning to recover in the N. of Scotland. Well marked depression over the Clyde. Disturbance moving SE<sup>ward</sup> and barometer rising in N. and N.W. during the afternoon.

THURSDAY DEC<sup>r</sup> 19<sup>th</sup>

Weather still unsettled, sky cloudy, with snow, hail and rain showers at several stations, clearer towards evening.

Temperatures much higher in the N., and lower elsewhere than on the 18<sup>th</sup>, reading varying from 43° at Scilly, and 37° at Thurso to 29° at York. Temperature uniform over Eastern England. Minima below 20° in the NE. of England.

Wind fresh in force from NE. in the N., and N.W. in the N., from W. in the SE., from S. in Denmark, and from E. in Norway, light N.W.<sup>ly</sup> on our E. coast. Little change during day.

Sea high at Aberdeen, rough in the N., W., and S.

Barometer falling over France, the SE. of England and on the E<sup>st</sup> shores of the North Sea, rising elsewhere. Disturbance now over the North Sea, and moving SE<sup>ward</sup> to North Germany during the day.

FRIDAY DEC<sup>r</sup> 20<sup>th</sup>

Weather fair and dry over Great Britain and the E. of Ireland, but snow falling at our extreme N.W. stations, rain at Valentia and in the S. of France. Snow and hail showers in the S.W. N. and N.

Temperatures fallen in most places - rapidly over Central England; varying from 36° at Scilly to 18° at Nottingham and York. Minima in following night 14° at Nottingham, 17° at York and 19° at Yarmouth.

Wind strong from N.W.E. in the Hebrides, but light in force elsewhere, generally from N. to N.W. on our coasts, and from E. in France.

Sea rough in the Minch.

Barometer falling in the N. of France, the S.W. of Ireland, and over the Baltic, rising elsewhere. Readings uniform over these Islands, but irregular in other parts of Western Europe. Brisk rise taking place in the W. at 5 P.M. and fall in S.W. of France ceasing.

SATURDAY DEC<sup>r</sup> 21<sup>st</sup>

Weather clear at many of our more N<sup>th</sup> and W<sup>th</sup> stations, cloudy or dull in the SE. with snow showers at Thurso, Scabers, and Pentlands. Showers of snow or hail in all but the SE<sup>th</sup> districts during the day.

Temperatures changed irregularly except in Scandinavia, where it had fallen, varying over the British Isles from 42° at Scilly to 15° at Nottingham. Minima about 25° at the inland stations.

Wind N<sup>ly</sup> to N.W.<sup>ly</sup> on most of our own and the French coast, but N.<sup>ly</sup> in Denmark and S.<sup>ly</sup> in the Baltic, Wind increasing in force in the N. in the afternoon, and blowing a slight gale in some places.

Sea rough in the N. and in the Skager Rack.

Barometer rising except in the Shetlands and N. of Norway, readings highest in the S.W. and shallow depressions shown over Scandinavia, the North Sea, and Central France. Pressure giving way briskly in the N. and E. in the evening.

Meteorological Office,

116 Victoria Street, Westminster, S.W.

ROBERT H. SCOTT, Secretary.



# DAILY WEATHER REPORT

DEC. 22<sup>nd</sup> 1878.

STATIONS.	† YESTERDAY EVENING.					8 A.M. TO DAY.										PART 24 HOURS.		
	Baromet. at 550 ft. Sea Level.	Temp. in shade.	Wind.		Weather.	Baromet.		Therm.			Wind.		Weather.	Baromet. (0 to 15).	Therm.		Amount of Rainfall.	
			Dir.	Force. (0 to 15).		Reading at 8 A.M. Sea Level.	Difference from 5 A.M. reading.	Dry.	Wet.	Difference from 5 A.M. reading.	Dir.	Force. (0 to 15).			Max.	Min.		
Haparanda	29.25	6	Z	0	b	29.20	+ .15	9	9	- 8	Z	0	f	#	18	5	0.24	
Hernösand	29.30	-10	Z	0	b	29.41	+ .13	1	1	+ 4	Z	0	c	#	#	#	-	
Stockholm	29.33	4	NN	2	b	29.40	+ .10	13	12	- 1	SSH	2	bc	#	#	#	-	
Wisby	29.37	24	NNW	6	b	29.45	+ .09	27	26	- 1	S	6	b	#	#	#	0.20	
Christiansund	29.24	25	SSH	3	b	29.28	+ .15	25	27	- 2	SE	1	o	4	25	21	0.02	
Skudesnes	29.24	28	NNW	6	5	29.21	- .13	22	22	- 8	N	2	b	2	?	?	-	
Oxö (Århusund)	29.28	23	NNW	1	c	29.15	- .13	24	23	+ 11	NNE	6	5	3	?	16	?	
Skagen (The Sæw)	29.33	28	WSW	5	b	29.23	- .10	32	32	+ 8	SSH	5	o	4	32	18	0.08	
Fanö	29.43	33	SW	2	c	29.25	- .18	35	33	+ 2	N	6	c	#	36	19	0.05	
Cuxhaven	29.57	34	WSW	4	o	29.48	- .06	32	32	o	SW	7	f	#	?	28	-	
Sumburgh Head	?	27	NNE	6	5	29.36	- .13	32	31	+ 3	NNE	5	5	11	33	22	0.02	
Stornoway	29.61	31	NNW	6	b	29.63	- .09	32	32	- 1	N	7	c	6	33	28	0.12	
Thurso	29.43	35	NNW	5	5	29.53	- .10	38	36	+ 2	NNW	5	e	5	39	31	0.32	
Wick	29.41	35	N	5	5	29.53	- .12	34	32	+ 2	N	4	o	3	35	25	0.35	
Nairn	29.58	26	NNW	3	bc	29.55	- .15	30	30	o	NNW	4	5	3	35	23	0.06	
Aberdeen	29.58	31	NN	3	5	29.51	- .14	31	30	+ 1	NN	3	bc	3	33	28	0.26	
Leith	29.57	34	WSW	1	o	29.59	- .13	29	29	+ 2	WSW	3	b	#	35	26	0.01	
Shields	29.63	29	NNW	2	bc	29.64	- .08	28	28	+ 1	NNW	5	bc	2	34	24	0.05	
Searborough	29.72	30	NNW	2	b	29.63	- .05	25	?	- 9	WSW	1	o	3	34	24	0.14	
York	29.71	28	N	1	b	29.67	- .06	23	22	- 9	NNW	1	b	#	36	22	0.02	
Nottingham	29.78	27	S	1	b	29.74	- .04	27	26	+ 12	SW	1	o	#	34	15	0.01	
Ardrossan	29.64	39	N	3	o	29.66	- .13	37	33	+ 9	NN	6	b	3	39	28	0.09	
Greencastle	29.75	35	N	3	f	29.76	- .08	30	29	- 2	N	2	5	#	37	29	0.50	
Doraghadee	29.76	32	NN	3	c	29.77	- .08	30	30	- 2	NNW	4	o	3	35	27	0.11	
Kingstown	29.88	33	NNW	4	bc	29.80	- .08	33	32	+ 5	N	4	e	4	36	27	0.08	
Holyhead	29.82	39	NN	5	bc	29.74	- .08	39	35	o	NN	5	e	4	41	35	0.13	
Liverpool (Bidston)	29.77	35	N	3	o	29.72	- .05	36	33	+ 5	NNW	2	o	1	37	32	0.17	
Valencia	30.02	34	NE	1	bc	29.59	- .10	42	40	+ 11	NN	5	ogp	4	43	28	0.08	
Roche's Point	30.00	36	NNW	2	bc	29.87	- .06	38	37	+ 7	NNW	4	o	3	38	30	-	
Pembroke	29.92	39	NN	4	o	29.76	- .05	43	40	+ 9	N	7	opw	4	43	34	0.01	
Portishead	?	?	?	?	?	?	?	?	?	?	?	?	?	?	?	?	?	
Seilly	30.00	42	NN	5	o	29.93	+ .06	45	41	+ 3	N	6	op	5	45	41	0.09	
Plymouth	29.95	32	Z	0	b	29.82	- .13	36	35	+ 1	N	1	bc	#	38	26	-	
Hurst Castle	29.88	31	NN	2	b	29.84	+ .04	39	36	+ 9	N	4	ow	4	45	30	-	
Dover	29.82	31	N	3	bc	29.80	+ .04	34	33	+ 6	N	5	bc	3	35	27	-	
London	29.85	33	Z	0	o	29.80	+ .03	33	32	+ 5	SW	2	os	#	33	27	-	
Oxford	29.86	29	NNW	1	b	29.80	00	32	32	+ 3	NN	1	5	#	34	27	-	
Cambridge	29.81	28	N	1	b	29.74	- .02	32	31	+ 5	SW	1	o	#	34	25	0.06	
Yarmouth	29.74	26	N	2	f	29.68	- .01	29	29	+ 4	N	3	f	3	32	23	-	
The Helder	?	?	?	?	?	29.56	- .04	35	34	- 2	N	3	5	#	?	?	0.20	
Cape Gris Nez	29.82	36	N	3	o	29.75	+ .02	41	37	+ 9	N	5	o	4	?	32	-	
Jersey	29.96	38	NN	2	bc	29.96	+ .16	42	39	+ 6	WSW	4	ch	4	43	35	0.19	
Brest	30.05	43	N	2	b	30.00	+ .18	45	39	+ 9	N	3	o	3	?	36	-	
É-Orient	30.06	37	NNW	3	b	30.04	+ .19	37	36	+ 3	N	3	c	3	41	30	-	
Rocheport	30.08	43	N	2	bc	30.12	+ .36	34	32	- 7	ESE	3	in	3	50	30	-	
Biarritz	30.11	48	NNW	6	c	30.11	+ .20	43	39	- 3	SSE	3	o	4	48	37	0.67	
Corunna	?	?	?	?	?	29.93	- .12	48	?	+ 3	SW	6	op	1	?	?	?	
Brussels	?	?	?	?	?	29.83	+ .10	31	31	o	SW	5	o	#	34	29	?	
Charleville	?	?	?	?	?	29.88	+ .09	30	?	+ 2	E	3	f	#	?	?	?	
Paris	29.95	32	SSH	2	o	30.01	+ .25	31	31	+ 6	SSH	1	o	#	?	?	-	
Lyons	?	?	?	?	?	30.17	+ .34	39	?	+ 1	SE	4	o	#	?	?	?	
Toulon	29.94	41	NN	6	b	30.13	+ .40	34	25	- 3	NN	5	b	5	46	34	-	

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

	Bar.	Dry.	Wet.	Wind.	Wca.	Sea.		Bar.	Dry.	Wet.	Wind.	Wca.	Sea.		
Skudesnaes ...	29.25	31	28	NNN	2	c	3	Valencia .....	30.02	42	39	Z	o	bc	1
Thurso .....	29.55	33	32	NNN	6	cp	5	Seilly .....	29.96	43	38	NN	5	c	4
Searborough ...	29.70	31	?	NNN	2	b	3	London .....	29.87	33	32	Z	o	ow	#
Mullaghmore ...	29.88	38	37	NN	5	og	4	Rocheport ...	29.95	36	36	NNN	5	bc	3
Holyhead .....	29.83	35	36	NN	4	c	3								

Barometer is falling in the N. but rising slightly in the S. and SW. The N<sup>W</sup> winds is increasing in the N. of Scotland. Sea is rough at Thurso and Searborough.

Mullaghmore	29.83	41	NNW	6	o	29.83	- .08	35	34	o	NNE	4	bc	4	42	33	0.15
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## 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.

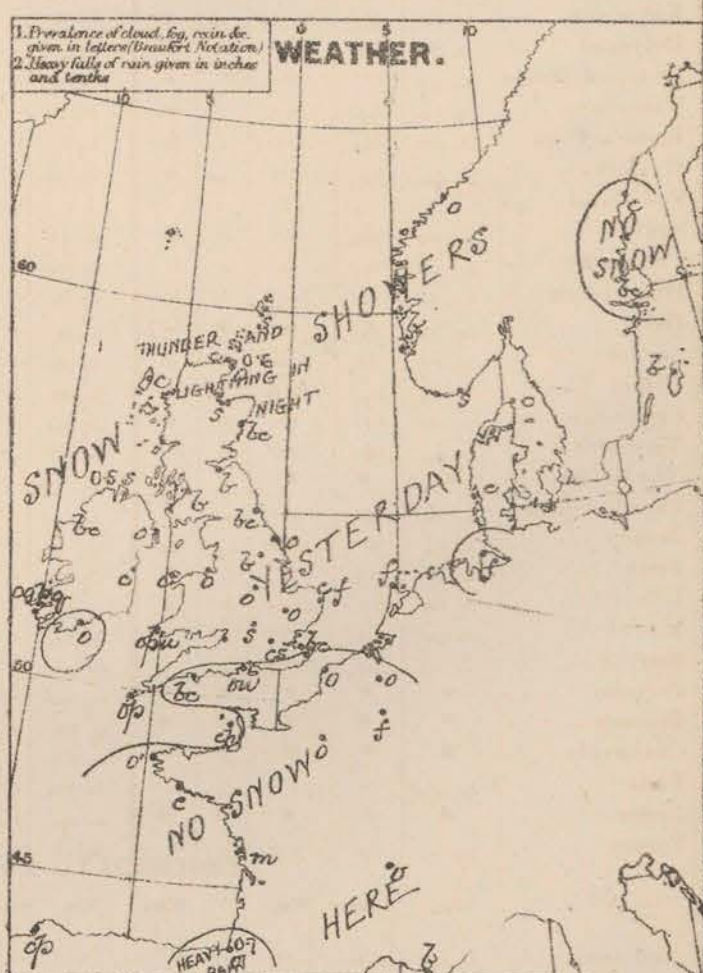
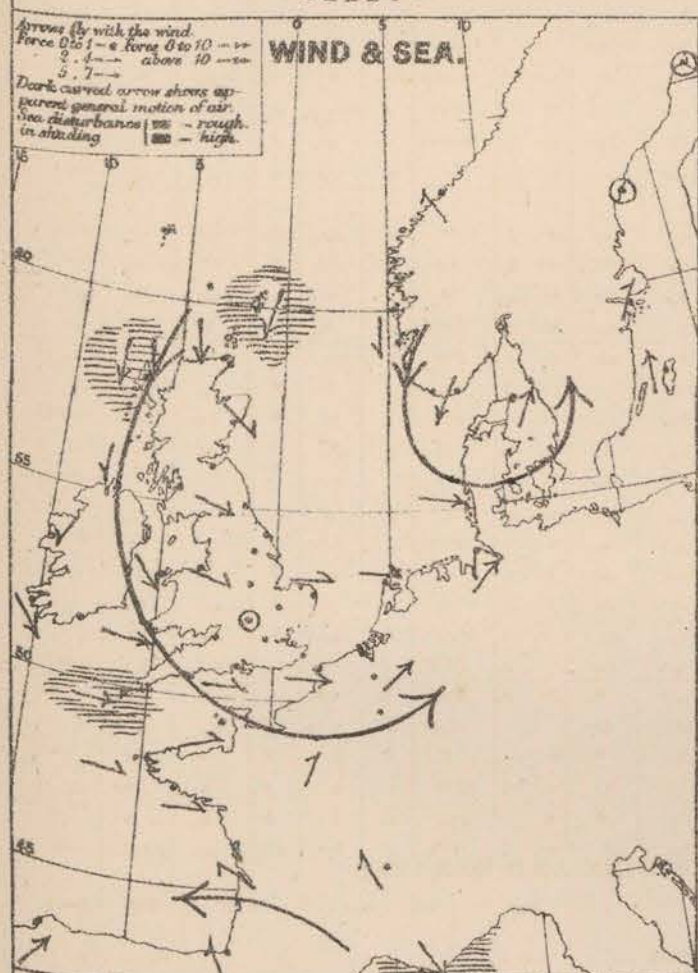
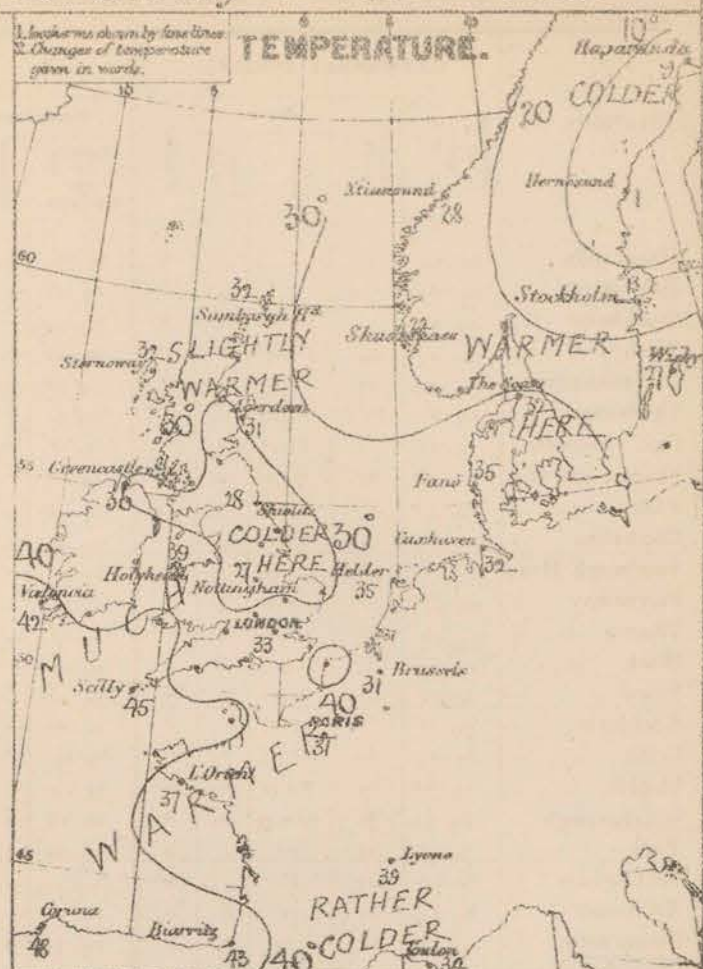
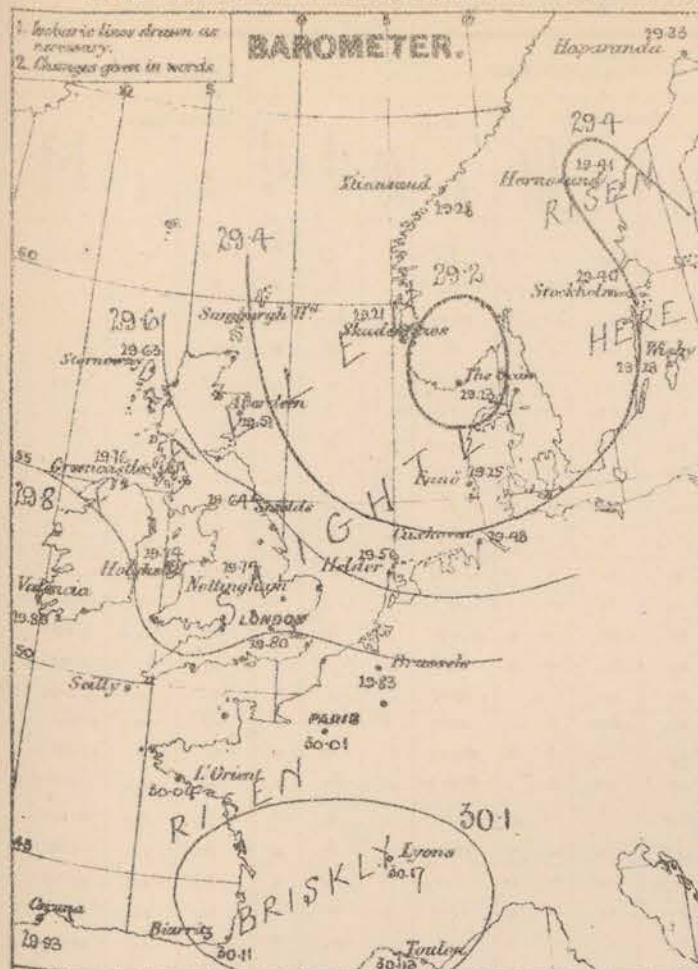
\* AN ASTERISK is inserted in all places for which information is not usually received.

† 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 Sun-day 22<sup>nd</sup> DEC: 1873.



REMARKS. Weather this morning shows no very important change from that recently reported. Showers of snow are still very general, and thunder and lightning occurred during the night in the N. of Scotland. Temperatures has risen in most places - especially in the W. It was again cold during last night over central England Nottingham reporting a minimum temperature of 15°. Winds in NW over the greater part of the Kingdom, and blows strongly in places. It is W in the Channel, but very variable in the E. shores of the North Sea. Sea is rough in the extreme N. and at Scilly, moderate to slight elsewhere.

Barometrical Indications. The barometer is still rather high over the S. of France. A small general depression has reached the S. of Norway from the W., and there is also a smaller subsidiary disturbance over Wales and the Bristol Channel -



## DAILY WEATHER REPORT

DEC. 23<sup>RD</sup> 1878.

STATIONS.	† YESTERDAY EVENING.					8 A.M. TO DAY.										LAST 24 HOURS.		
	Barometer at 370 ft. 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 370 ft. 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 Sæw)	29.15	33	NNE	3	bc	29.35	+ .12	28	27	- 4	N	5	o	5	34	23	-	
Fanö ...														*				
Cuxhaven ...	29.52	34	NN	7	g	29.56	+ .08	33	?	+ 1	NNE	4	o	*	?	30	-	
Sumburgh Head	29.46	32	N	4	b	29.75	+ .39	32	31	o	NNE	5	s	5	36	29	0.03	
Stornoway	29.70	28	N	5	b	29.88	+ .25	33	33	+ 1	NNE	7	s	6	33	26	0.02	
Thurso ...	29.61	35	NNN	5	c	29.79	+ .26	38	37	o	NNE	3	c	4	38	35	0.24	
Wick ...	29.56	30	N	4	o	29.73	+ .20	37	35	+ 3	NN	3	bc	2	38	26	0.25	
Nairn ...	29.69	28	NN	2	o	29.78	+ .23	34	33	+ 4	NN	4	bc	3	34	24	-	
Aberdeen ...	29.58	31	NNN	3	b	29.69	+ .18	32	32	+ 1	N	3	s	3	34	28	0.14	
Leith ...	29.65	31	NN	3	bc	29.75	+ .16	24	24	- 5	N	3	bc	*	37	22	-	
Shields ...	29.64	29	NNN	2	b	29.75	+ .11	21	21	- 7	NNN	2	b	2	30	20	-	
Scarborough	29.64	28	NNE	2	b	29.73	+ .10	24	?	- 1	NNN	1	b	?	?	?	-	
York ...	29.68	31	N	2	bc	29.78	+ .11	18	18	- 5	N	1	b	*	33	18	-	
Nottingham ...	29.76	27	SSN	1	b	29.84	+ .10	23	23	- 4	SSN	1	o	*	33	22	-	
Ardrossan ...	29.71	35	NN	4	b	29.81	+ .15	30	28	- 7	NN	1	b	o	39	29	-	
Greencastle ...	29.79	33	NN	2	s	29.87	+ .11	35	33	+ 5	NNN	2	o	*	38	29	0.30	
Donaghadee ...	29.79	31	NN	3	bc	29.86	+ .09	28	28	- 2	N	4	c	2	33	27	0.16	
Kingstown ...	29.87	31	NNN	4	b	29.93	+ .13	29	28	- 4	NNN	4	c	4	34	28	-	
Holyhead ...	29.79	38	NN	5	c	29.84	+ .10	36	33	- 3	NN	5	c	6	41	35	0.01	
Liverpool (Bidston)	29.70	36	N	4	b	29.81	+ .09	31	30	- 5	N	3	c	1	37	31	0.02	
Valencia ...	29.97	35	Z	o	bc	29.06	+ .17	32	31	- 10	Z	o	b	1	45	29	0.02	
Roche's Point...	29.99	36	NNN	3	b	30.03	+ .16	30	29	- 8	NNN	2	b	3	39	29	0.04	
Pembroke ...	29.89	38	NNN	2	bc	29.93	+ .17	38	35	- 5	NN	3	b	2	43	36	0.06	
Portishead																		
Seilly ...	29.91	44	N	5	c	29.98	+ .05	43	38	- 2	N	5	o	3	46	36	0.02	
Plymouth ...	29.88	33	Z	o	b	29.96	+ .14	27	26	- 9	Z	o	o	*	41	25	0.12	
Hurst Castle ...	29.81	33	NNN	3	b	29.88	+ .04	32	32	- 7	NN	3	b	3	42	31	0.02	
Dover ...	29.74	31	N	3	b	29.85	+ .05	28	27	- 6	NNN	4	b	2	40	27	0.06	
London ...	29.79	31	NN	2	b	29.84	+ .04	20	?	- 13	NNE	1	bc	*	35	17	0.11	
Oxford ...	29.79	26	Z	o	o	29.86	+ .06	20	20	- 12	Z	o	b	*	32	20	0.15	
Cambridge ...	29.74	29	S	1	c	29.82	+ .08	23	23	- 9	SN	1	b	*	35	23	-	
Yarmouth ...	29.69	26	N	3	c	29.78	+ .10	23	23	- 6	N	1	g	3	31	22	-	
The Helder ...	*	*	*	*	*	29.68	+ .12	35	34	o	NNE	3	c	*	*	*	0.12	
Cape Gris Nez	29.75	34	N	5	o	29.88	+ .13	34	32	- 7	NNN	2	b	2	45	32	-	
Jersey ...	29.90	42	N	5	bc	29.95	- .01	38	35	- 4	NNN	1	c	1	45	36	0.15	
Brest ...	29.97	45	NNN	1	c	29.94	- .06	39	36	- 6	ENE	3	o	3	46	36	0.04	
L'Orient ...	30.01	43	NNN	3	bc	29.93	- .11	36	36	- 1	E	2	c	2	46	34	-	
Rochefort ...	30.04	41	SE	3	m	29.96	- .16	37	36	+ 3	SE	3	m	3	50	30	-	
Biarritz ...	30.01	48	SSE	1	o	29.83	- .28	55	50	+ 12	SSE	3	o	3	57	32	-	
Corunna ...	*	*	*	*	*									*	*	*	*	
Brussels ...	*	*	*	*	*	29.85	+ .02	28	28	- 3	SN	4	o	*	34	27	0.20	
Charleville ...	*	*	*	*	*	? 29.86	- .02	30	*	o	NNE	1	o	*	*	*	*	
Paris ...	29.97	31	SSN	3	c	29.95	- .06	32	32	+ 1	SN	3	o	*	*	*	0.04	
Lyons ...	*	*	*	*	*	30.09	- .08	37	*	- 2	SE	2	o	*	*	*	*	
Toulon ...	30.08	37	NN	4	b	30.04	- .09	21	37	+ 7	Z	o	o	3	43	32	-	
YESTERDAY'S 2 P.M. REPORTS AND REMARKS.																		
	Bar.	Dry.	Wet.	Wind.	Wet.	Sea.		Bar.	Dry.	Wet.	Wind.	Wet.	Sea.					
Skudesnaes ...	29.25	31	28	NNN	2	c	3	Valencia .....										
Thurso .....								Seilly .....										*
Scarborough ...								London .....										
Greencastle ...							*	Rochefort ...	29.95	36	36	NNN	5	bc	3			
Holyhead .....																		
Mullaghmore	29.86	37	NNN	5	bc	29.94	+ .11	35	33	o	N	5	bc	4	37	32	0.07	

## 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.

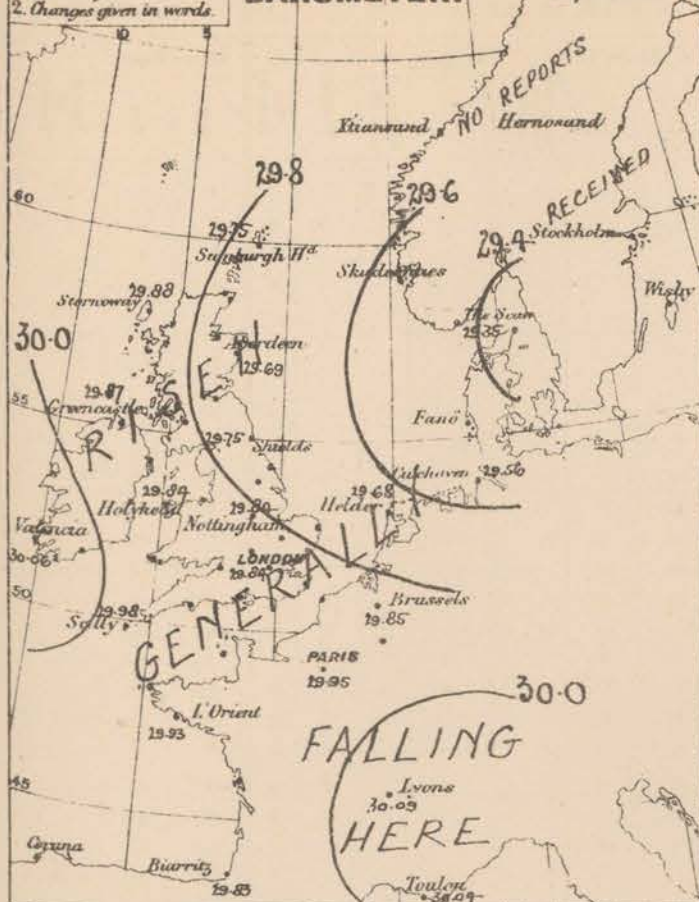
N.B.—The wind is said to "veer" when its direction changes with the sun, and to "back" when it shifts in the opposite direction.



# WEATHER CHARTS for 8 a.m. on Mon-day 23<sup>rd</sup> DEC<sup>r</sup> 1878.

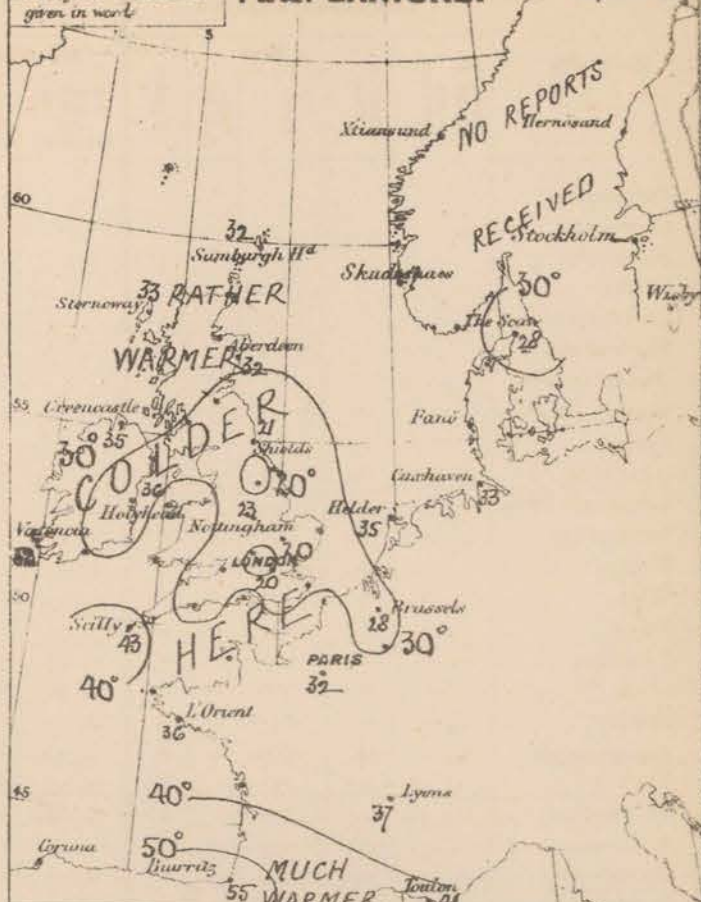
1. Isobaric lines drawn as necessary.
2. Changes given in words.

## BAROMETER.



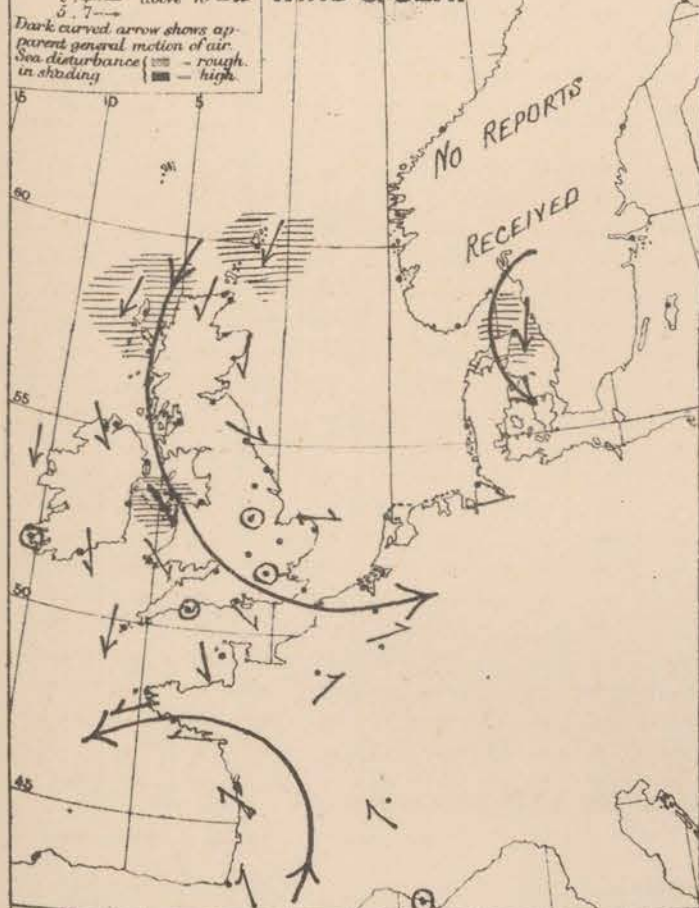
1. Isobars drawn as necessary.
2. Changes of temperature given in words.

## TEMPERATURE.



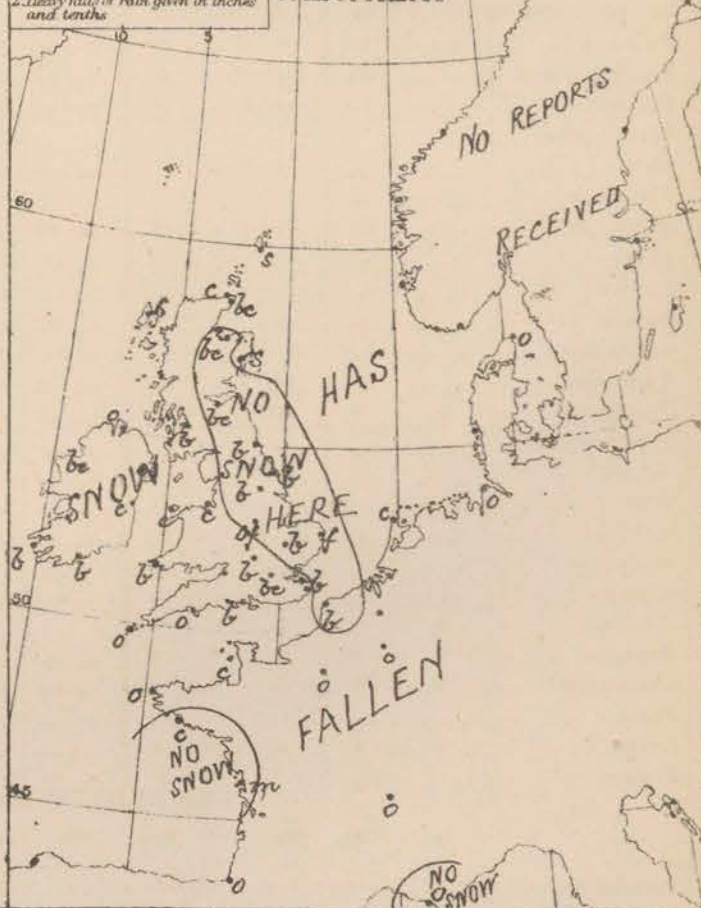
1. Arrows fly with the wind. Force 0 to 10 — 0 to 10 — above 10 —
2. Dark curved arrow shows apparent general motion of air. Sea disturbance (—) — rough in shading (—) — high

## 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.



**REMARKS.** Weather is more fine and bright over Ireland and England, somewhat cloudy in Scotland, with sun at Stornoway, Sumburgh Head and Aberdeen. Sun fell yesterday except in the N. of England, in London the fall continued uninterruptedly from 8 a.m. to 4 p.m. and appears to have been heavier in the NW-suburbs than elsewhere. Lightning occurred at Leith on all night. Temperature has again fallen over England and Ireland, where hard frost prevails. The bar. reading at York (18) is 30° lower than that at Thurso, 25° lower than Sicily, and 37° lower than at Biarritz. The lowest readings recorded in the night were 17° in London, 18° at York, 20° at Oxford and Shields. On the pass the thermometer in London stood at 9° at 8 a.m. Wind is generally N. in the N. and W., NW to W elsewhere. It is light at the E. stations, but rather strong in the N. and NW. Sea is rough in the N. and NW moderate or slight elsewhere.

**Barometrical indications.** In the course of the past 24 hours the barometer has risen over the North Sea, fallen over the Bay of Biscay and France. Readings were only a little above 30 ins. in the SW. of Ireland and SE. of France to 29.4 ins. over Denmark, and 29.8 ins. at Biarritz. The Scandinavian reports have not arrived yet.

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

DEC 24<sup>TH</sup> 1878.

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 ...	29.57	12	Z	0	0	29.56	+0.03	18	18	+10	E	2	0	*	18	5	0.16	
Hernösand ...	29.56	8	Z	0	0	29.58	+0.06	11	?	+13	NNN	2	0	*	*	*	0.12	
Stockholm ...	29.36	24	Z	0	0	29.50	+0.20	21	20	-6	NN	4	0	*	*	*	-	
Wishby ...	29.56	36	SSE	4	0	29.49	+0.15	28	27	+2	NN	8	0	*	*	*	0.16	
Christiansund ...	29.67	28	NNN	2	0	29.71	+0.21	26	24	-7	NNN	9	5	5	30	21	0.20	
Skudesnaes ...	29.70	25	NNN	2	0	29.89	+0.39	27	27	+5	NNN	2	0	2	?	23	-	
Oxö (Årland) ...	29.63	23	NNN	4	0	29.80	+0.37	21	18	-3	NN	2	0	1	25	18	-	
Skagen (The Sea) ...	29.59	30	N	5	0	29.77	+0.42	30	28	+2	N	2	0	2	30	23	-	
Fanö ...	29.72	23	Z	0	0	29.89	+0.40	30	29	+1	NNN	4	0	*	30	18	-	
Cuxhaven ...	29.69	32	N	2	0	29.90	+0.37	29	28	-4	NNN	1	0	*	34	25	-	
Sumburgh Head ...	29.89	30	NNE	4	0	30.05	+0.30	31	31	-1	N	4	5	3	34	26	0.03	
Stornoway ...	30.06	29	N	3	0	30.20	+0.32	26	26	-7	Z	0	0	0	35	22	-	
Thurso ...	30.01	34	NNN	4	0	30.17	+0.38	36	35	-2	NN	2	0	4	39	31	0.07	
Wick ...	30.02	30	N	4	0	30.18	+0.45	25	24	-12	NN	2	0	2	38	24	0.09	
Nairn ...	30.05	28	NN	2	0	30.22	+0.44	27	27	-7	NN	1	0	2	35	26	-	
Aberdeen ...	29.96	31	NNN	2	0	30.19	+0.50	28	28	-4	NN	3	0	3	37	27	0.13	
Leith ...	30.01	33	NNE	2	0	30.25	+0.50	24	24	0	N	2	0	*	34	23	-	
Shields ...	29.91	34	NNN	3	0	30.27	+0.52	23	23	+2	NN	2	0	3	37	21	0.23	
Scarborough ...	29.85	32	NNN	2	0	30.24	+0.57	27	?	+3	NN	1	0	3	38	24	0.11	
York ...	29.93	29	NN	1	0	30.29	+0.57	21	21	+3	N	1	0	*	33	18	0.04	
Nottingham ...	29.97	23	Z	0	0	30.35	+0.51	15	14	-8	Z	0	0	*	31	14	-	
Ardrossan ...	30.05	34	NN	1	0	30.29	+0.48	23	22	-7	E	1	0	0	39	22	-	
Greencastle ...	30.04	37	NNE	2	0	30.29	+0.42	27	27	-8	NN	1	0	*	38	25	0.20	
Donaghadee ...	30.06	37	NNE	4	0	30.33	+0.47	28	28	0	N	3	0	2	37	26	-	
Kingstown ...	30.09	32	NNN	4	0	30.33	+0.40	23	23	-6	NNN	3	0	3	33	22	-	
Holyhead ...	30.07	39	NNN	4	0	30.31	+0.47	33	32	-3	SSH	1	0	1	41	32	0.08	
Liverpool (Hudson) ...	29.99	32	NN	2	0	30.32	+0.57	30	29	-1	WSN	1	0	1	34	29	-	
Valencia ...	30.17	33	Z	0	0	30.29	+0.23	34	31	+2	ENE	2	0	2	42	27	-	
Roche's Point ...	30.11	32	NNN	2	0	30.29	+0.26	29	28	-1	NE	2	0	3	40	28	-	
Pembroke ...	30.05	37	NNN	4	0	30.30	+0.37	31	29	-7	E	1	0	0	38	30	-	
Portishead ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	
Seilly ...	30.06	43	N	6	0	30.25	+0.27	40	37	-3	ENE	5	0	4	44	39	-	
Plymouth ...	30.05	31	Z	0	0	30.30	+0.34	29	28	+2	Z	0	0	*	36	26	0.01	
Hurst Castle ...	29.96	32	NNN	2	0	30.30	+0.42	28	28	-4	NE	3	0	3	41	24	-	
Dover ...	29.90	30	NN	3	0	30.28	+0.40	29	28	+1	N	4	0	2	33	26	-	
London ...	29.97	31	NNN	2	0	30.32	+0.48	21	21	+1	N	1	0	*	33	15	-	
Oxford ...	29.98	23	Z	0	0	30.32	+0.46	15	15	-5	Z	0	0	*	32	15	-	
Cambridge ...	29.95	25	N	1	0	30.33	+0.51	23	22	0	NN	1	0	*	35	22	-	
Yarmouth ...	29.86	26	N	2	0	30.23	+0.45	26	26	+3	N	2	0	*	27	22	-	
The Helder ...	*	*	*	*	*	30.09	+0.39	36	34	+1	NN	3	0	*	*	*	-	
Cape Gris Nez ...	29.96	32	NNN	4	0	30.25	+0.37	32	30	-2	N	3	0	2	37	30	-	
Jersey ...	30.03	39	NN	2	0	30.31	+0.36	33	31	-5	NE	1	0	1	42	32	-	
Brest ...	30.06	45	NNE	2	0	30.23	+0.29	36	32	-3	E	3	0	3	43	30	-	
L'Orient ...	30.06	39	NE	2	0	30.27	+0.34	34	32	-2	E	3	0	3	43	30	-	
Rochefort ...	30.06	41	NE	3	0	30.21	+0.25	32	30	-5	SE	4	0	3	50	28	-	
Biarritz ...	29.95	32	NE	3	0	30.03	+0.20	41	39	-14	ENE	4	0	4	59	37	0.12	
Corunna ...	*	*	*	*	*	...	...	...	...	...	...	...	...	...	...	...	...	
Brussels ...	*	*	*	*	*	30.21	+0.36	28	28	0	SW	3	0	*	31	24	0.08	
Charleville ...	*	*	*	*	*	30.21	+0.35	25	*	-5	WSN	1	0	*	*	*	-	
Paris ...	30.02	29	SW	1	0	30.23	+0.28	29	29	-3	SW	1	0	*	*	*	-	
Lyons ...	*	*	*	*	*	30.22	+0.13	30	*	-7	N	2	0	*	*	*	-	
Toulon ...	29.97	43	Z	0	0	30.07	-0.03	45	39	+4	WSN	4	0	3	45	37	-	

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

	Bar.	Dry.	Wet.	Wind.	Wes.	Sea.		Bar.	Dry.	Wet.	Wind.	Wes.	Sea.	
Skudesnaes ...	29.64	25	23	NNN	2	0	Valencia .....	30.11	41	38	NE	2	c	3
Thurso .....	29.95	37	34	N	4	c	Seilly .....	30.04	43	38	N	5	c	4
Scarborough ...	29.78	29	?	NN	2	c	London .....	29.88	32	30	N	2	b	3
Mullaghmore ...	30.03	38	37	NN	4	0	Rochefort ...	30.02	43	41	SE	2	c	3
Holyhead .....	29.90	38	36	NNN	6	c, h, s								

Pressure continues to increase over our Islands. A great deal of snow has fallen in the E. of Scotland today, and in London the sky begins to look threatening for a further fall.

Mullaghmore	30.09	39	NNE	5	0	30.31	+0.37	27	27	-8	Z	0	0	39	26	-
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## 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.

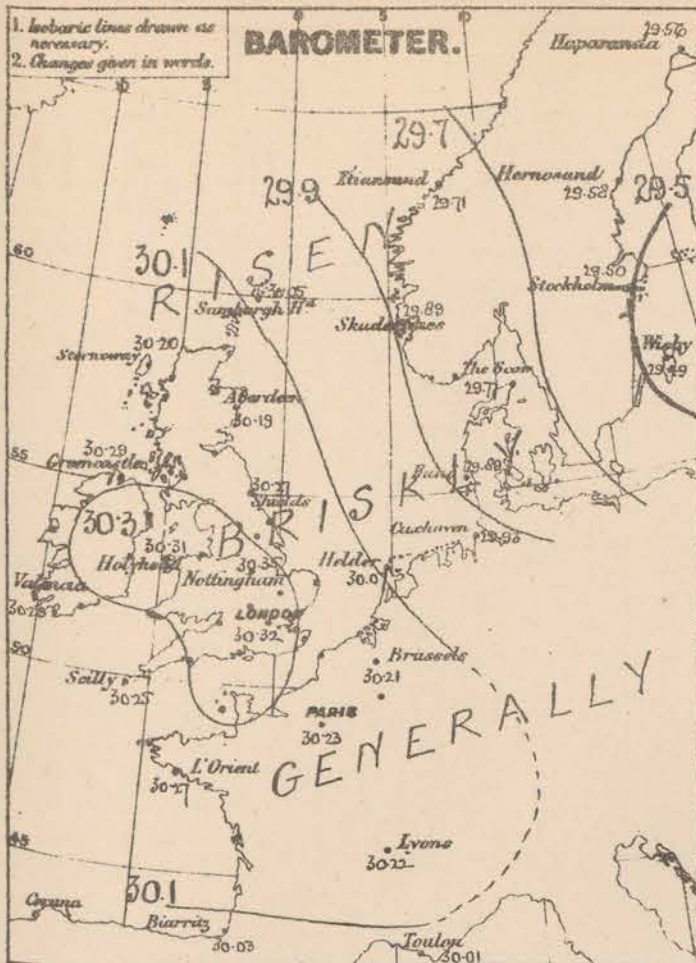
N.B.—The wind is said to "veer" when its direction changes with the sun, and to "back" when it shifts in the opposite direction.



# WEATHER CHARTS for 8 a.m. on Tuesday 24. DEC<sup>r</sup> 1876.

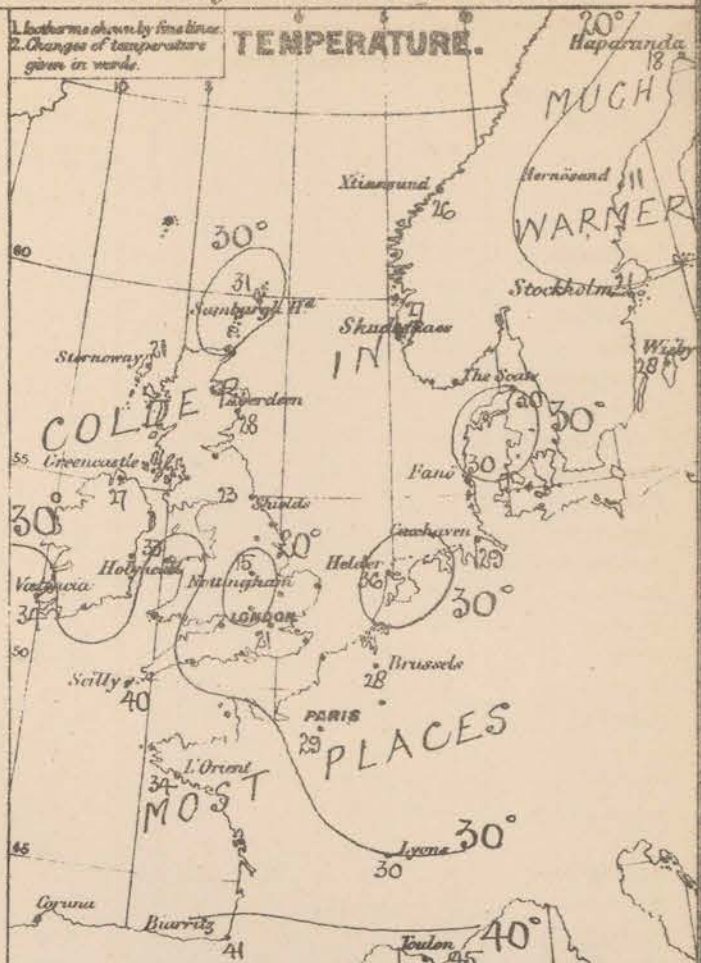
1. Isobaric lines drawn as necessary.
2. Changes given in words.

## BAROMETER.



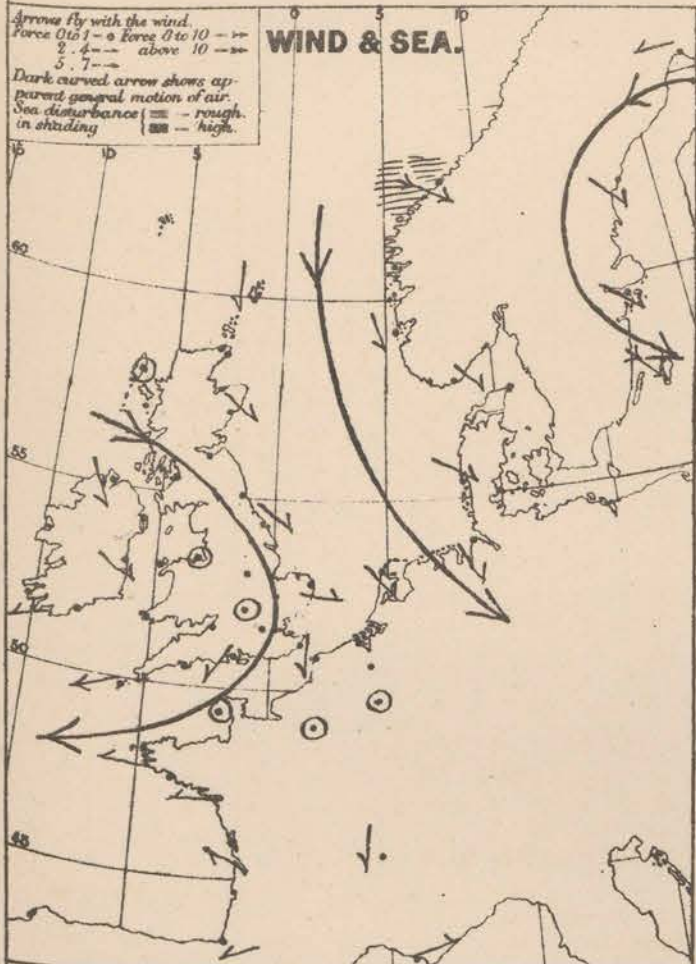
1. Isotherms shown by fine lines.
2. Changes of temperature given in words.

## TEMPERATURE.



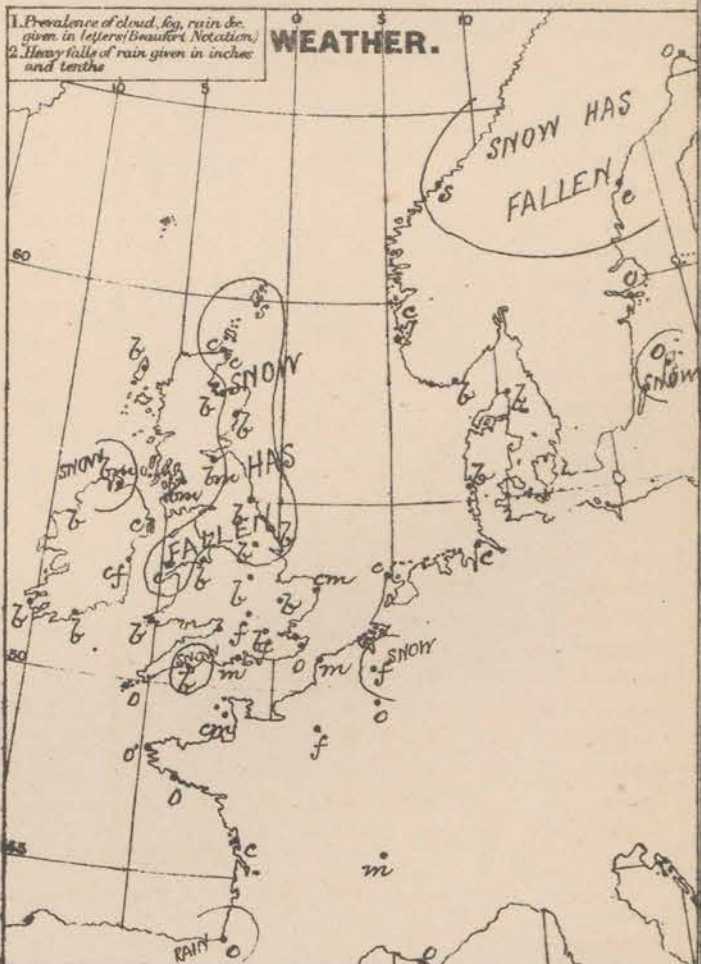
1. Force 0 to 10 —
  2. Force 10 to 20 —
  3. Force 20 to 30 —
  4. Force 30 to 40 —
  5. Force 40 to 50 —
  6. Force 50 to 60 —
  7. Force 60 to 70 —
  8. Force 70 to 80 —
  9. Force 80 to 90 —
  10. Force 90 to 100 —
- Dark curved arrow shows apparent general motion of air.  
Sea disturbance — rough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

## WIND & SEA.



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

## WEATHER.



**REMARKS.** Weather is fair over the greater part of W. Europe, cloudy or dull at several stations, fog is reported in London and Oxford, and snow from the Netherlands and Lithuania. Light showers have fallen in the NE. At Shields the ground is covered with 13 inches of snow.

Temperature has decreased in most places, and varies from 40° at Seilly to 15° over Central England, the minima registered last night were 14° at Nottingham, 15° at Oxford, 18° at York, and 22° in several districts, viz London the lowest reading in the shade was 15° and 10° on the grass.

Wind is light over these Islands, and their neighbourhood, from NW and an E. coast, and from E. over the Channel, and N. of France.

Sea is moderate to smooth.

**Barometrical Indications.** Pressure has decreased over the whole of W. Europe, briskly generally and rapidly at our NW and NE stations. An anticyclone lies over England, and the N. of Ireland, while the lowest readings are reported from the Baltic.

Subscription for these Charts payable in advance to cover delivery. Delivery by hand 20 per quarter, book post 5 per quarter.

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

R. H. SCOTT.

Secretary.



# DAILY WEATHER REPORT

DEC. 25<sup>th</sup>

1878.

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 11).		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 11).			Max.	Min.		
Haparanda	29.68	22	S	4	S	29.65	+0.9	18	18	0	N	2	0	*	25	12	0.28	
Hernösand	29.64	8	Z	0	b	29.76	+1.8	11	10	0	NE	2	6	*	*	*	-	
Stockholm	29.76	17	N	6	b	29.90	+1.40	13	13	-8	N	2	0	*	*	*	-	
Wisby	29.73	29	NNN	6	e	29.96	+1.47	24	28	+1	N	4	c	*	*	*	-	
Christiansund	29.78	26	NN	6	c	29.71	-0.0	24	23	-2	E	2	6	5	27	19	0.08	
Skudesnaes	30.00	35	NNN	3	b	29.46	-0.23	37	36	+10	NNN	6	N	4	?	?	0.39	
Oxö (Klansand)	30.05	27	NNN	2	bc	29.80	-0.0	38	36	+17	SW	4	c	2	?	?	-	
Skagen (The Seal)	30.02	31	NNE	5	b	29.90	+1.3	32	31	+2	SW	7	0	6	32	19	-	
Fanö	30.16	28	NN	4	b	30.10	+2.1	36	38	+6	NNN	4	b	*	36	27	-	
Cuxhaven	30.15	34	NN	1	e	30.26	+0.83	25	25	-4	SW	1	f	*	34	23	-	
Sumburgh Head	29.83	29	NNN	7	e	29.84	-2.1	35	33	+4	NE	4	bc	4	40	31	0.09	
Stornoway	30.04	35	NNN	5	bc	29.89	-2.1	36	36	+10	SWN	2	bc	2	37	25	0.48	
Thurso	30.03	32	SW	3	b	29.39	-2.8	40	39	+4	NNN	2	bc	3	41	25	0.25	
Wick	29.99	30	SW	3	b	29.88	-3.0	36	35	+11	NN	1	0	0	38	21	0.12	
Nairn	30.09	31	Z	0	b	29.95	-2.7	36	34	+9	NN	4	c	3	36	27	-	
Aberdeen	30.17	25	N	1	b	29.94	-2.5	36	35	+8	N	2	b	2	36	17	-	
Leith	30.22	23	N	2	b	30.03	-2.2	30	30	+6	NNN	3	bc	*	33	18	-	
Shields	30.30	26	NNN	1	b	30.14	-1.3	19	19	-4	SW	2	f	2	27	18	-	
Scarborough	30.31	26	NN	1	b	30.17	-0.7	19	?	-8	SW	1	0	2	31	18	-	
York	30.33	23	NNN	1	b	30.17	-1.2	14	14	-7	SSE	1	0	*	30	11	-	
Nottingham	30.38	19	Z	0	b	30.19	-1.6	12	12	-3	Z	0	0	*	29	6	-	
Ardrossan	30.25	39	NNN	3	c	30.07	-1.22	35	33	+12	ENE	2	0	1	40	23	-	
Greencastle	30.27	21	SW	1	b	30.03	-2.6	22	21	-5	NE	1	om	*	28	12	0.07	
Donsghadee	30.32	24	N	2	b	30.06	-2.7	33	32	+5	ESE	3	0	2	33	21	-	
Kingstown	30.33	28	Z	0	c	29.99	-3.4	36	34	+13	ESE	4	0	4	26	22	-	
Holyhead	30.31	33	SSE	1	b	30.03	-2.8	33	32	0	E	2	0	1	37	29	-	
Liverpool (Hedston)	30.32	34	SSE	2	b	30.09	-2.3	21	20	-9	ESE	2	bc	1	?	13	-	
Valencia	30.11	40	E	5	0	29.69	-6.0	39	37	+5	E	6	og	6	42	31	0.21	
Roche's Point	30.19	40	ESE	5	e	29.78	-5.1	40	39	+11	SE	8	2	5	40	29	0.48	
Pembroke	30.31	33	E	3	b	29.90	-4.0	37	36	+6	ESE	7	orm	4	37	30	0.02	
Portishead																		
Scilly	30.15	43	E	7	0	29.72	-5.3	43	40	+3	ESE	9	0	7	43	37	0.14	
Plymouth	30.28	35	E	3	0	29.90	-4.0	35	34	+6	SE	6	og	*	39	28	0.13	
Hurst Castle	30.34	32	E	1	b	30.04	-2.6	36	34	+8	SE	3	m	3	38	28	-	
Dover	30.37	29	NN	3	b	30.20	-0.8	33	32	+4	SE	4	bcn	3	33	26	-	
London	30.38	29	Z	0	bf	30.15	-1.7	23	23	+7	ESE	1	0	*	23	11	-	
Oxford	30.38	12	Z	0	f	30.18	-1.4	13	13	-2	Z	0	f	*	25	6	-	
Cambridge	30.37	17	NN	1	f	30.20	-1.3	26	26	+3	SE	1	0	*	35	12	-	
Yarmouth	30.31	24	NNN	2	b	30.22	-0.1	27	27	+1	NNN	2	bcn	2	28	19	-	
The Helder	*	*	*	*	*	30.23	+1.6	33	33	-3	SWN	1	f	*	*	*	0.04	
Cape Gris Nez	30.25	32	NNE	1	b	30.19	-0.6	28	28	-4	E	1	*	0	37	27	-	
Jersey	30.32	35	E	3	b	29.92	-3.9	36	33	+3	ESE	6	0	6	39	32	0.01	
Brest	30.14	41	SE	5	0	29.84	-3.9	37	35	+1	SE	3	0	4	?	32	0.04	
L'Orient	30.19	32	E	4	m	29.81	-4.6	34	30	0	E	5	0	4	36	28	-	
Rochefort	30.15	43	ENE	5	0	29.88	-3.3	37	36	+5	SE	5	0	3	30	25	-	
Biarritz	29.57	50	ENE	4	0	29.80	-2.3	48	45	+7	E	2	0	3	37	21	-	
Corunna	*	*	*	*	*	29.67	-1.5	54	*	0	Z	0	onf	2	*	*	*	
Brussels	*	*	*	*	*	30.28	+0.7	23	23	-5	S	2	f	*	35	22	-	
Charleville	*	*	*	*	*	?	?	19	*	-6	ENE	1	0	*	*	*	*	
Paris	30.43	27	Z	0	0	30.15	-0.8	30	29	+1	SWN	2	0	*	*	*	-	
Lyons	*	*	*	*	*	30.27	+0.5	34	*	+4	SE	2	0	*	*	*	*	
Toulon	30.09	43	E	2	b	30.26	+2.5	43	39	-2	E	7	e	6	?	41	-	

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

	Bar.	Dry.	Wet.	Wind.	Wes.	Sea.		Bar.	Dry.	Wet.	Wind.	Wes.	Sea.		
Skudesnaes ...	30.00	22	22	NNE	2	bc	2	Valencia .....	30.22	40	37	ENE	3	0	4
Thurso .....	30.14	36	30	SW	2	bcn	3	Scilly .....	30.23	43	39	E	6	0	5
Scarborough ...	30.30	30	?	NN	1	b	3	London .....	30.36	32	30	Z	0	bcf	*
Mullaghmore...	30.33	32	32	E	1	b	1	Rochefort ...	30.14	36	34	NE	4	0	3
Holyhead .....	30.34	36	34	SSE	1	b	1								

Pressure is decreasing in the extreme N. and N. increasing elsewhere. The E wind at Scilly has become strong.

Mullaghmore	30.29	27	ESE	4	bc	29.96	-3.5	30	30	+3	E	6	nu	3	35	25	-
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## EXPLANATION OF COLUMNS.

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

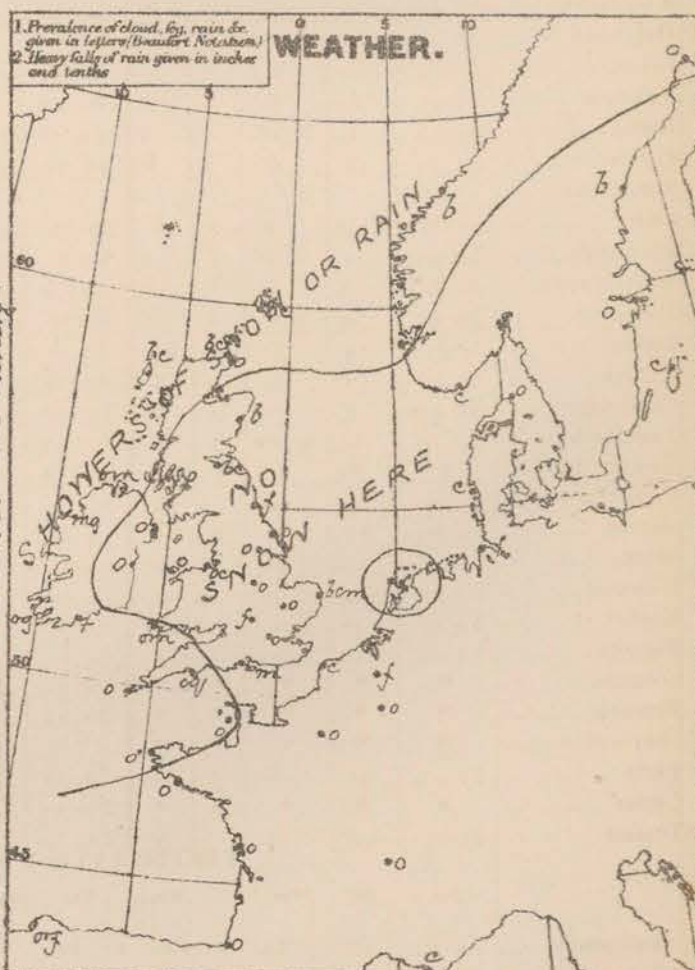
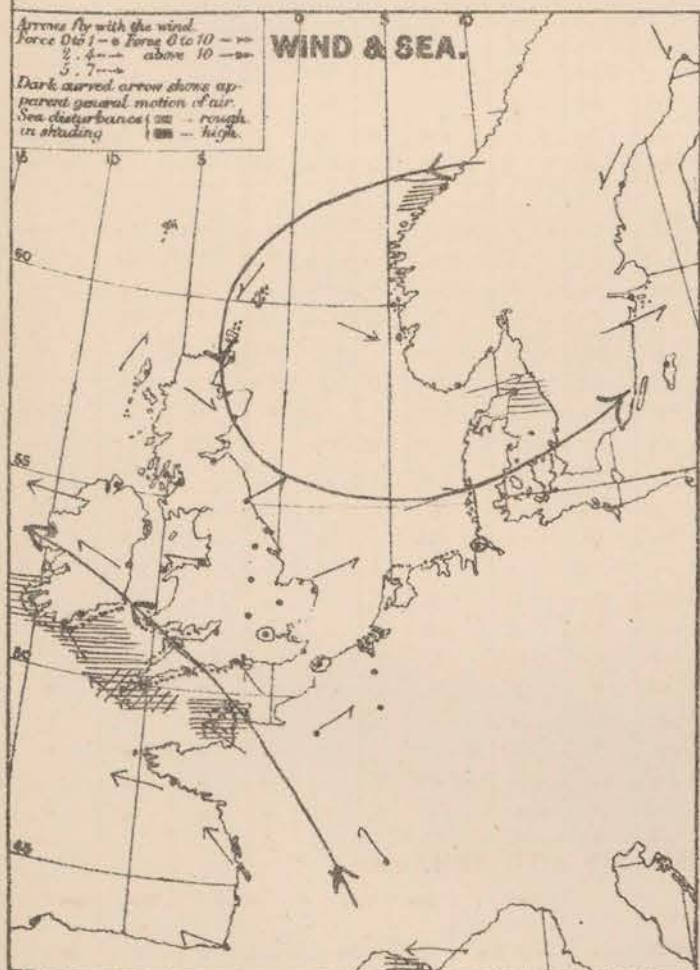
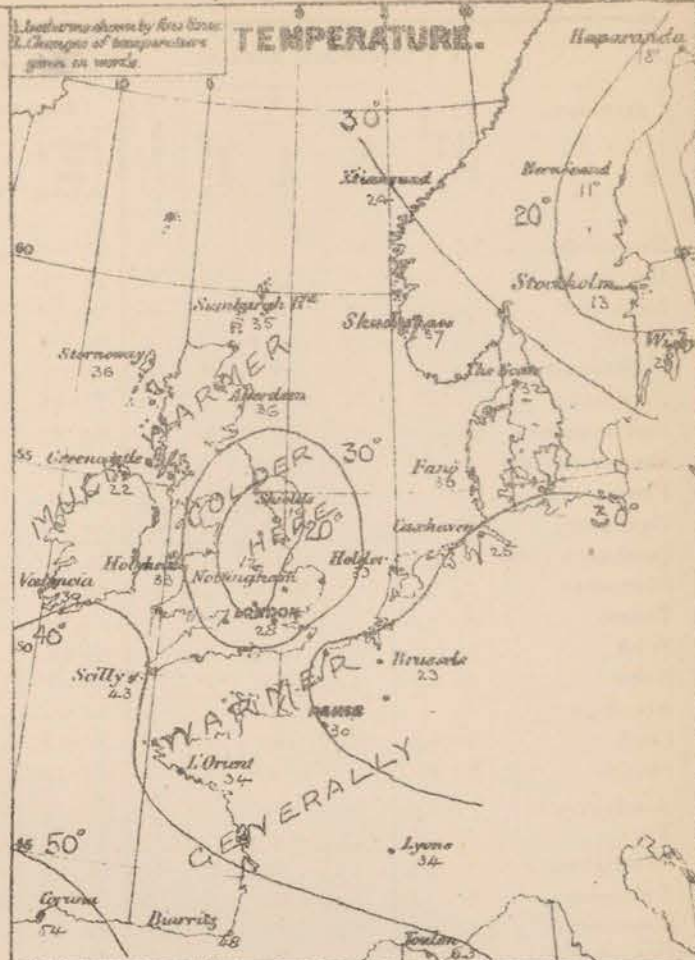
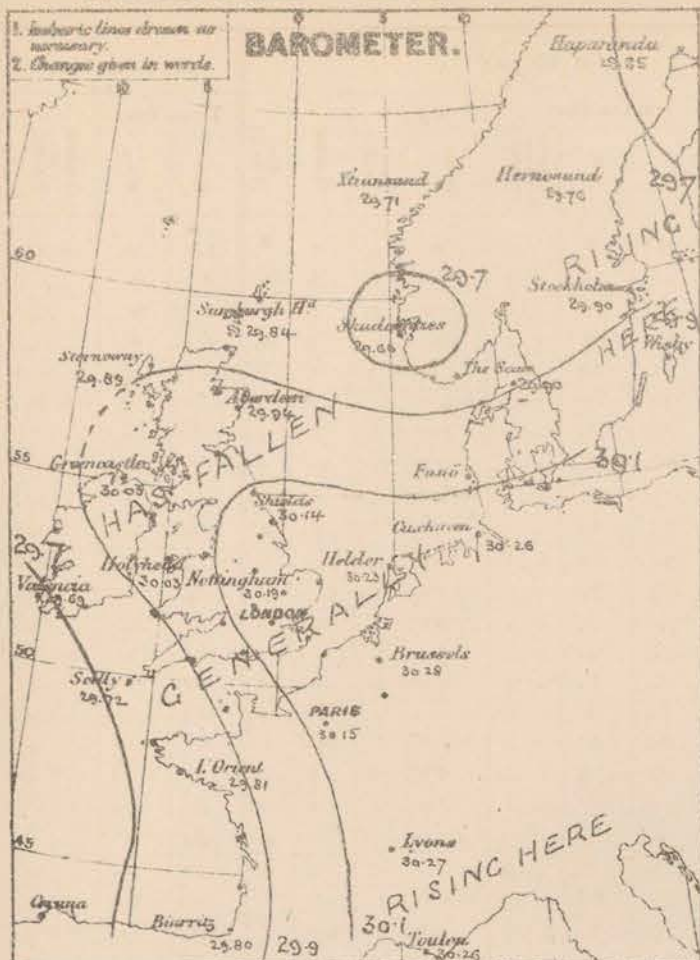
\* AN ASTERISK is inserted in all places for which information is not usually required.

† 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. 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 Wednesday 25<sup>th</sup> Dec<sup>r</sup> 1878.



**REMARKS.** Weather is fair at some of our E<sup>m</sup> and N<sup>m</sup> stations, cloudy or dull elsewhere, fog or mist prevails in several places and rain is falling at Pembroke, Cork and Skudesnaes. Slight showers of snow or rain have fallen in the extreme N. and N. — Temperature has fallen over Central and NE<sup>m</sup> England risen several degrees elsewhere; it varies over these Islands from 43° at Scilly to 12° at Nottingham; last night was the coldest yet experienced this season the thermometers falling to 3° at Nottingham and Oxford, to 11° at York and London and to 12° at Greenacres. Wind is N<sup>W</sup> to NN<sup>W</sup> on our N<sup>m</sup> coasts and SW<sup>W</sup> on the E<sup>m</sup> shores of the North Sea but is SE<sup>W</sup> over France and our S<sup>m</sup> and N<sup>m</sup> stations, it is fresh or strong generally in the N and blows a hard gale at Scilly and a fresh gale at Cork. Sea is rough to high in the S.W.

**Barometrical Indications.** — Pressure is decreasing in all parts of our area except over Sweden and the S of France. Readings are highest in the SE and low both off our SW coasts and in the W. of Norway.

**Warnings:** The North Cape for an E<sup>W</sup> gale was hoisted in the S.W. last night.

Subscriptions for steam chart to be printed 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

DEC 26<sup>TH</sup>

1878.

† YESTERDAY EVENING.						8 A.M. TO DAY.										PAST 24 HOURS.		
STATIONS.	Baromet. at 3 1/2 p.m. and Ben 1 = 10.	Temp. in shade.	WIND.		Weather.	BAROMETRE.		SHADE TEMP.			WIND.		Weather.	Sea. (0 to 9.)	SHADE TEMP.		Amount of Rainfall.	
			Dir.	Force. (0 to 12).		Reading at 3 1/2 p.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 ...																		
Skudeanaes ...																		
Oxö (Ålansand)																		
Skagen (The Seal)	29.86	30	NNE	2	b	29.74	-.16	31	30	-.1	SE	3	o	2	36	23	0.38	
Fanö ...	29.99	35	WSW	2	c	29.81	-.29	26	24	-.10	E	4	o	*	37	25	-	
Cuxhaven ...	30.19	28	SW	4	f	29.79	-.47	26	26	+.1	SSE	4	s	*	?	19	-	
Sumburgh Head	29.88	33	N	2	bc	29.73	-.11	34	33	-.1	SSE	2	c	3	36	29	0.06	
Stornoway	29.81	35	SW	1	b	29.63	-.26	36	35	0	E	1	bc	1	37	30	-	
Thurso ...	29.86	33	W	0	o	29.69	-.20	33	33	-.7	W	0	c	3	41	30	-	
Wick ...	29.84	30	W	0	bc	29.67	-.21	32	31	-.4	W	0	o	0	36	26	0.26	
Nairn ...	29.86	33	NW	2	bc	29.68	-.27	28	28	-.8	SE	1	b	1	37	27	-	
Aberdeen ...	29.88	28	W	0	b	29.67	-.27	24	24	-.12	WSW	1	m	2	37	24	-	
Leith ...	29.86	23	W	1	bc	29.58	-.45	33	33	+.3	E	3	s	*	34	18	0.04	
Shield ...	29.90	24	SW	2	m	29.54	-.40	36	36	+.7	E	5	s	4	36	19	0.21	
Scarborough	29.89	29	SW	1	o	29.60	-.69	34	34	+.15	SSE	1	m	2	37	19	0.30	
York ...	29.89	25	ENE	1	o	29.49	-.65	33	33	+.9	ENE	1	o	*	33	13	0.15	
Nottingham ...	29.84	29	E	1	s	29.49	-.70	32	32	+.20	W	0	o	*	32	12	0.60	
Ardrossan ...	29.83	28	ENE	2	f	29.58	-.49	32	31	-.3	ENE	1	bc	0	36	26	0.02	
Greencastle ...	29.79	34	ENE	2	o	29.53	-.50	36	34	+.14	ENE	4	o	*	36	20	-	
Donaghadee ...	29.77	37	SE	7	o	29.57	-.55	35	35	+.2	ESE	7	t	5	37	32	0.22	
Kingsdown ...	29.69	36	SE	5	t	29.43	-.56	35	34	-.1	WSW	2	c	4	36	33	0.24	
Holyhead	29.72	33	E	4	s	29.41	-.62	35	34	+.2	SSE	1	o	0	36	31	0.18	
Liverpool (Heddon)	29.78	28	E	3	f	29.44	-.65	32	31	+.11	ESE	1	o	1	32	21	0.25	
Valencia ...	29.44	44	E	6	o	29.36	-.33	39	38	0	NE	1	c	2	44	38	0.20	
Roche's Point...	29.50	41	SE	6	t	29.38	-.40	38	37	-.2	ENE	4	d	4	43	36	0.88	
Pembroke ...	29.59	35	ESE	6	t	29.34	-.56	38	38	+.1	ENE	3	t	3	38	33	0.33	
Portishead																		
Seilly ...	29.48	43	SE	7	t	29.35	-.37	30	30	+.7	SW	6	o	5	30	36	0.41	
Plymouth ...	29.55	38	SE	3	o	29.34	-.36	46	46	+.11	SW	1	o	*	49	35	0.39	
Hurst Castle ...	29.68	37	SE	3	t	29.42	-.62	46	46	+.10	SSW	6	m	6	46	36	0.24	
Dover ...	29.83	34	SE	4	o	29.34	-.66	42	41	+.9	WSW	3	ow	3	43	32	0.03	
London ...	29.79	31	ENE	1	f	29.48	-.67	42	41	+.4	S	2	o	*	42	28	0.14	
Oxford ...	29.77	32	SE	1	s	29.49	-.69	35	34	+.22	W	0	f	*	35	13	0.40	
Cambridge ...	29.73	33	ESE	2	s	29.47	-.73	35	33	+.9	SE	1	f	*	35	25	?	
Yarmouth ...	29.92	34	ESE	5	c	29.53	-.69	35	35	+.8	S	2	m	4	35	25	0.24	
The Helder ...	*	*	*	*	*	29.61	-.62	30	30	-.3	SE	1	o	*	*	*	0.08	
Cape Gris Nez	29.86	30	ESE	2	o	29.60	-.59	41	39	+.13	S	3	o	2	?	28	-	
Jersey ...	29.65	40	SSE	4	o	29.51	-.41	46	46	+.10	SSW	5	com	5	47	36	0.01	
Brest ...	29.59	46	S	5	t	29.49	-.35	50	50	+.13	WSW	4	f	4	?	34	0.20	
L'Orient ...	29.63	45	ESE	4	m	29.36	-.23	50	50	+.16	S	3	m	4	52	38	0.08	
Rochefort ...	29.71	46	SE	6	o	29.71	-.17	46	45	+.9	S	5	c	4	48	28	-	
Biarritz ...	29.74	32	SSE	5	o	29.75	-.5	57	52	+.9	S	4	c	3	59	45	-	
Corunna ...	*	*	*	*	*													
Brussels ...	*	*	*	*	*	29.65	-.63	40	38	+.17	SSW	5	t	*	?	29	-	
Charleville ...	*	*	*	*	*	29.72	?	37	*	+.18	SSE	1	t	*	*	*	*	
Paris ...	29.85	33	SE	2	o	29.74	-.41	37	36	+.7	SW	2	o	*	*	*	-	
Lyons ...	*	*	*	*	*	30.04	-.23	45	*	+.11	S	4	t	*	*	*	*	
Toulon ...	30.21	43	E	9	*	30.17	-.09	37	37	-.6	E	8	t	J	45	26	-	

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

Sta.	Bar.	Dry.	Wet.	Wind.	Wen.	Sea.	Sta.	Bar.	Dry.	Wet.	Wind.	Wen.	Sea.
Skudeanaes	29.85	33	29	NW	6	c	Valencia						
Thurso							Seilly						
Scarborough							London						
Greencastle							Rochefort	29.76	46	43	SE	5	o
Holyhead													
Mullaghmore	29.70	35	E	6	m	29.49	-.47	35	35	+.5	ENE	6	c

## EXPLANATION OF COLUMNS

**WEATHER**—Beaufort scale is, b. blue sky; c. detached clouds; d. drizzling rain; f. fog; g. dark, gloomy; h. hail; i. 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.

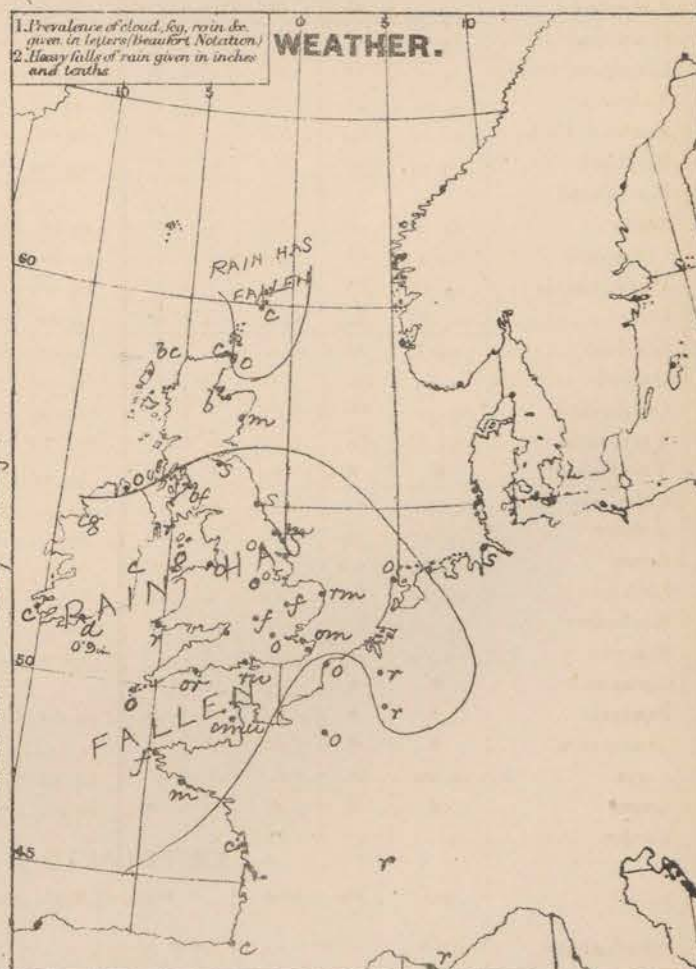
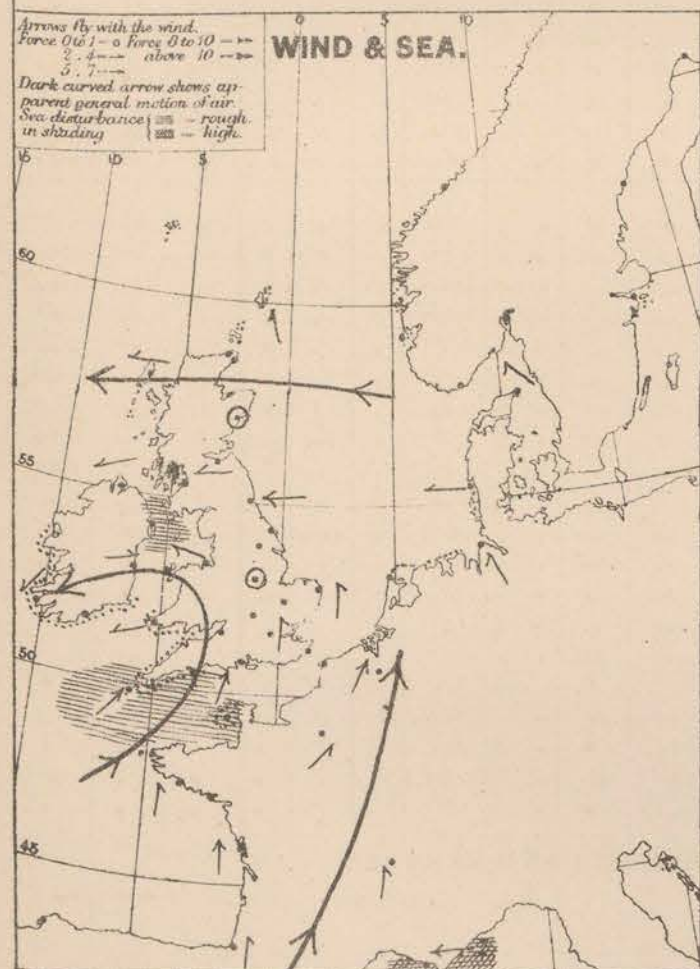
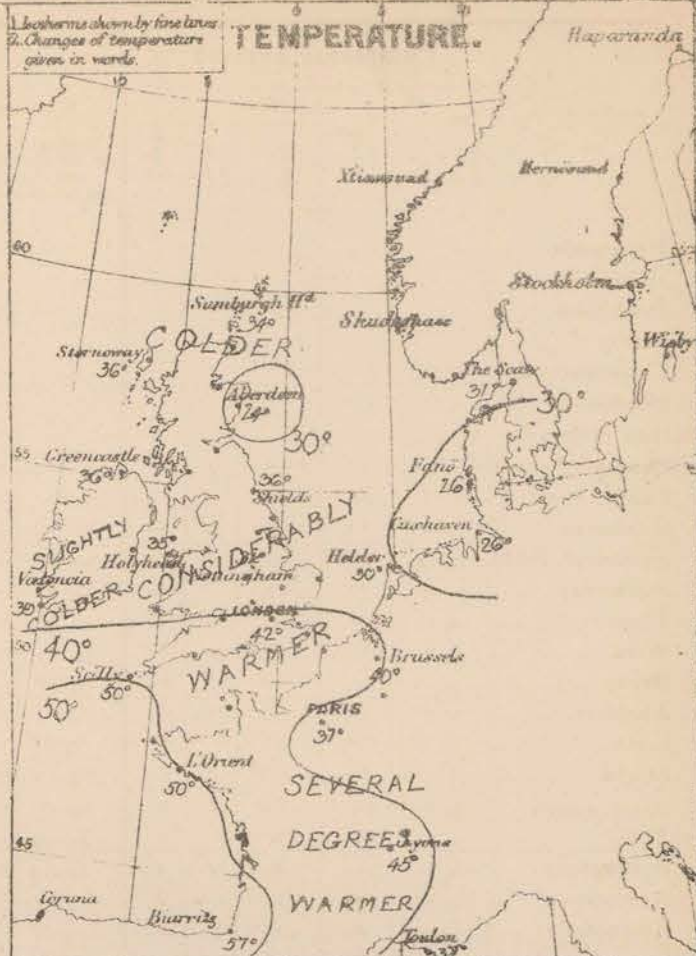
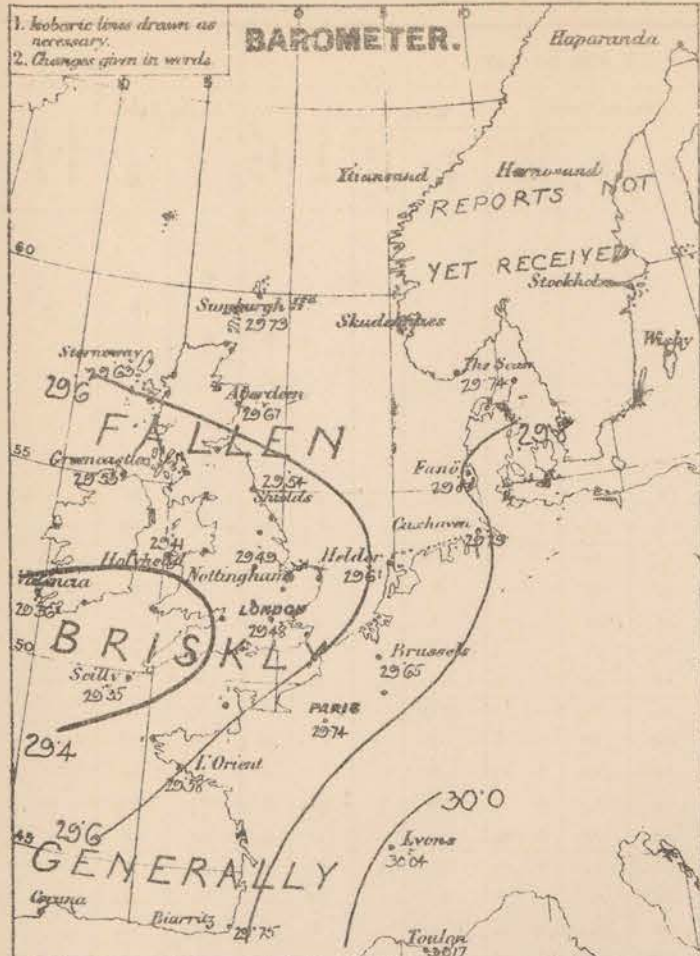
\* AN ASTERISK is inserted in all places for which information is not usually received.

† 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 26<sup>th</sup> Dec<sup>r</sup> 1876.



**REMARKS.** Weather dull or cloudy in nearly all parts of Western Europe, with rain at many of the southern stations, heavy in the north-east of England and at Antwerp and fog at night in several places. Rain, snow and hail have fallen in most parts of these islands, 0.88 in. being measured at Rother Point and half an inch at Nottingham. Temperature has fallen over Scotland and the east of Ireland, rising fast over England and France; over Central England the rise is as much as 20°. Readings at present vary from 30° at Lillie to 24° at Aberdeen, and at all our south coast stations the thermometer is above 40°. Wind is fresh to strong from S. to SW over France, the Channel and south of England; elsewhere it is generally E. to SE in direction and moderate or light in force, but at Skibber and in the north of Ireland it blows strongly. Sea is rough in the Channel, moderate to slight elsewhere.

**Barometrical Indications.** Pressure is decreasing over the whole of Western Europe, notably in most places and rapidly over England. A large depression is shown over our south west coasts, while readings are high in the south of France and to the NE. of these Islands.

**Warnings.** The hail cone is still flying on our south west coasts.

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

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

R. H. SCOTT.  
Secretary.



# DAILY WEATHER REPORT

DEC: 27<sup>th</sup> 1878.

STATIONS.	YESTERDAY EVENING						8 A.M. TO DAY.										LAST 24 HOURS.		
	Barometer at 5 p.m. and Sea Level.	Temp. in shade.	Wind.		Weather.	Barometer.	SHADE TEMP.			Wind.		Weather.	Sea (0 to 3).	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 ...	29.84	10	Z	0	0	29.74	+0.3	17	17	+4	S	4	0	*	18	7	-		
Hermösand ...	29.79	-5	Z	0	0	29.67	-1.1	1	1	+12	Z	0	0	*	*	*	-		
Stockholm ...	29.86	11	NNW	2	e	29.54	-3.4	30	29	+16	NE	2	0	*	*	*	0.08		
Wibby ...	29.83	30	SE	6	0	29.56	-3.2	32	31	+4	S	4	0	*	*	*	0.04		
Christiansund ...	29.49	29	SW	6	5	29.31	-3.5	20	28	+2	SW	4	0	5	?	23	0.24		
Skudesnaes ...	29.61	32	ESE	3	0	29.50	-3.1	27	26	-3	NE	2	0	2	32	?	-		
Oro (Kriessund) ...	29.66	27	NNE	6	5	29.47	-3.9	26	25	+1	NNE	6	0	4	30	23	3.40		
Skagen (The Seal) ...	29.64	31	SE	6	5	29.45	-2.9	30	28	-1	ESE	5	0	5	36	25	0.04		
Fanö ...	29.44	32	SSE	4	m	29.35	-4.6	37	37	+11	WSW	2	0	*	37	25	0.16		
Cuxhaven ...	29.59	35	SSW	4	2	29.48	-3.1	38	38	+12	SW	3	0	*	?	?	0.72		
Sumburgh Head ...	29.57	37	NE	2	2	29.45	-2.8	35	34	+1	NE	5	2	5	38	33	0.07		
Stornoway ...	29.57	30	Z	0	6	29.45	-1.8	28	28	-8	W	3	0	3	36	23	-		
Thurso ...	29.60	25	Z	0	6	29.49	-2.0	20	20	-13	S	1	0	3	33	20	-		
Wick ...	29.57	30	Z	0	0	29.48	-1.9	23	22	-9	NW	1	0	1	33	21	-		
Nairn ...	29.60	27	Z	0	6	29.57	-1.7	24	24	-4	Z	0	0	1	30	20	-		
Aberdeen ...	29.53	31	Z	0	5m	29.50	-1.7	29	28	+5	Z	0	0	1	33	24	0.15		
Leith ...	29.48	35	E	3	5	29.47	-1.1	34	34	+1	ENE	1	0	*	36	32	0.16		
Shields ...	29.42	37	ENE	1	m	29.45	-0.9	39	38	+3	ENE	1	0	3	39	36	0.09		
Scarborough ...	29.39	36	NW	1	0	29.42	-0.8	39	38	+5	N	1	0	2	39	34	0.07		
York ...	29.40	34	NE	1	0	29.45	-0.4	31	31	-2	NNW	1	0	*	35	30	0.02		
Nottingham ...	29.43	33	Z	0	2	29.47	-0.2	34	34	+2	N	1	0	*	34	32	0.67		
Ardrossan ...	29.49	34	ENE	2	m	29.49	-0.9	34	32	+2	ENE	1	0	0	36	31	-		
Greencastle ...	29.57	37	NNE	2	0	29.50	-0.3	37	36	+1	NW	1	0	*	38	26	-		
Donaghadee ...	29.48	36	ESE	5	6	29.53	+0.2	33	32	-2	WSW	3	0	2	38	33	0.01		
Kingstown ...	29.44	36	NNW	4	0	29.50	+0.7	35	35	0	NW	4	0	4	38	34	0.15		
Holyhead ...	29.40	37	NE	2	m	29.45	+0.4	38	37	+3	NE	2	m	1	39	34	-		
Liverpool (Hudson) ...	29.41	33	Z	0	f	29.45	+0.1	33	33	+1	NE	1	0	1	34	32	-		
Valencia ...	29.43	38	NNE	1	0	29.48	+1.2	37	35	-2	E	2	0	2	42	33	-		
Roche's Point ...	29.50	37	N	4	e	29.51	+1.3	36	34	-2	N	3	0	4	41	35	0.04		
Pembroke ...	29.37	39	NE	2	2	29.46	+1.2	42	40	+4	NW	2	3	3	42	37	0.55		
Portishead ...																			
Seilly ...	29.37	50	SSW	6	0	29.52	+1.7	48	46	-2	WSW	6	0	6	52	45	0.01		
Plymouth ...	29.40	47	SW	1	0	29.49	+1.5	41	41	-5	W	2	0	*	50	40	0.06		
Hurst Castle ...	29.43	47	SW	5	e	29.39	-0.3	43	43	-3	WSW	3	m	4	48	43	0.14		
Dover ...	29.49	44	SW	5	0	29.44	-1.0	43	43	+1	SW	3	0	3	46	42	0.21		
London ...	29.45	47	SSW	2	0	29.42	-0.6	43	43	+1	S	2	0	*	48	42	0.14		
Oxford ...	29.41	42	S	1	f	29.41	-0.8	41	40	+6	SSW	1	0	*	43	34	0.10		
Cambridge ...	29.39	42	S	1	2	29.42	-0.5	33	33	-2	NW	1	0	*	43	33	0.43		
Yarmouth ...	29.40	39	SW	1	2	29.42	-1.1	36	36	+1	Z	0	0	2	41	35	0.16		
The Helder ...	*	*	*	*	*	29.44	-1.7	40	40	+10	SSW	2	2	*	*	*	0.20		
Cape Gris Nez ...	29.55	43	S	5	2	29.49	-1.1	41	41	0	SSW	3	0	3	45	39	0.04		
Jersey ...	29.52	47	SSW	4	0	29.52	+0.1	45	44	-1	W	5	0	5	49	44	0.05		
Brest ...	29.45	48	SSW	3	0	29.61	+1.2	46	45	-4	NW	2	0	4	52	45	0.08		
L'Orient ...	29.52	46	S	3	m	29.62	+0.4	46	45	-4	NW	3	0	5	54	41	0.12		
Rochefort ...	29.63	48	SSW	4	0	29.67	-0.4	48	46	+2	NNW	4	0	3	50	39	0.47		
Biarritz ...	29.68	52	SSE	4	0	29.86	+1.1	52	48	-5	SW	6	2	5	61	48	0.28		
Corunna ...	*	*	*	*	*			*						*	*	*	*		
Brussels ...	*	*	*	*	*	29.53	-1.2	40	39	0	S	3	0	*	42	39	-		
Charleville ...	*	*	*	*	*	29.54	-1.8	39	*	+2	ESE	3	0	*	*	*	*		
Paris ...	29.67	33	SW	2	0	29.56	-1.8	39	39	+2	SW	2	2	*	*	*	0.12		
Lyons ...	*	*	*	*	*	29.77	-2.7	50	*	+5	SE	4	0	*	*	*	*		
Toulon ...	30.01	43	E	7	2	30.02	-1.5	45	45	+8	ENE	5	0	5	45	36	0.51		

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

	Bar.	Dry.	Wet.	Wind.	Wes.	Sea.		Bar.	Dry.	Wet.	Wind.	Wes.	Sea.		
Skudesnaes ...	29.69	31	30	E	4	0	3	Valencia .....	29.39	41	40	NNE	2	c m	3
Thurso .....	29.61	24	24	Z	0	f	3	Seilly .....	29.37	52	51	SSW	5	0	5
Scarborough ...	29.40	35	35	S	1	m	2	London .....	29.41	48	47	SSE	1	od	*
Mullaghmore ..	29.48	34	35	E	5	og	5	Rochefort ...	29.65	50	48	S	5	0	3
Holyhead .....	29.39	34	36	NE	2	m	2								

Pressure is decreasing slowly in most places, but in the SW a recovery is in progress and the depression in that neighbourhood appears to be filling up. The winds are little changed in direction, but are lighter in force.

Mullaghmore	29.53	38	NNE	5	0	29.53	+0.4	33	32	-2	NNE	1	0	1	39	31	-
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## 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.

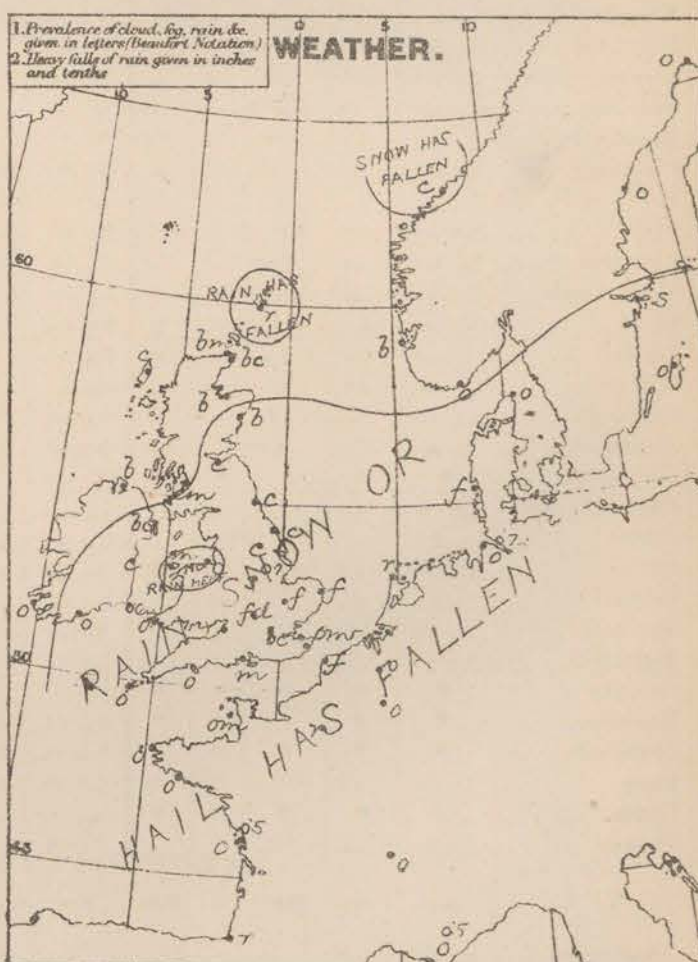
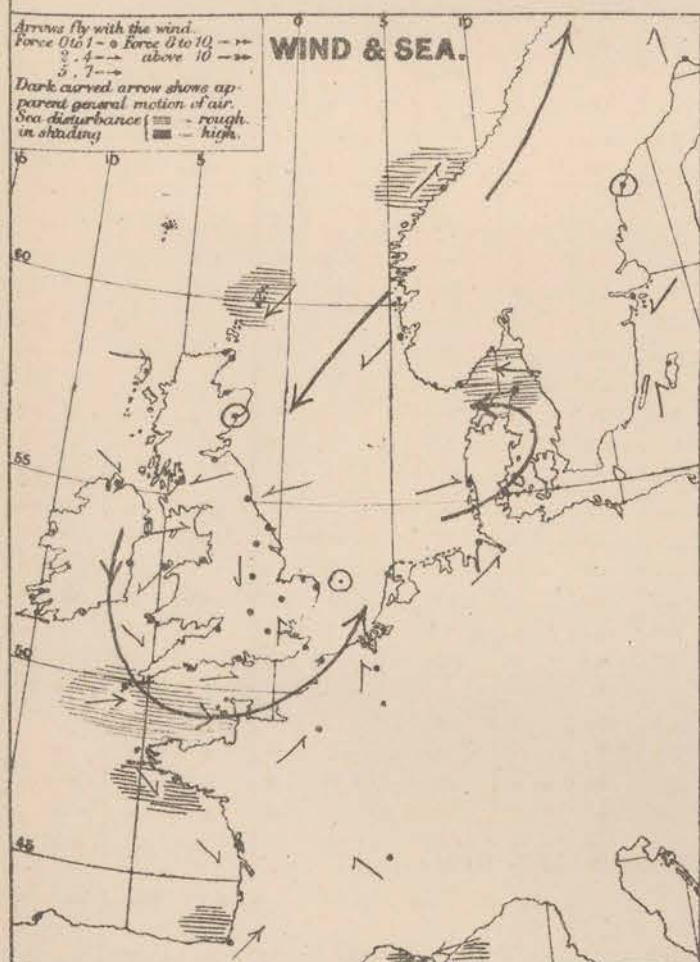
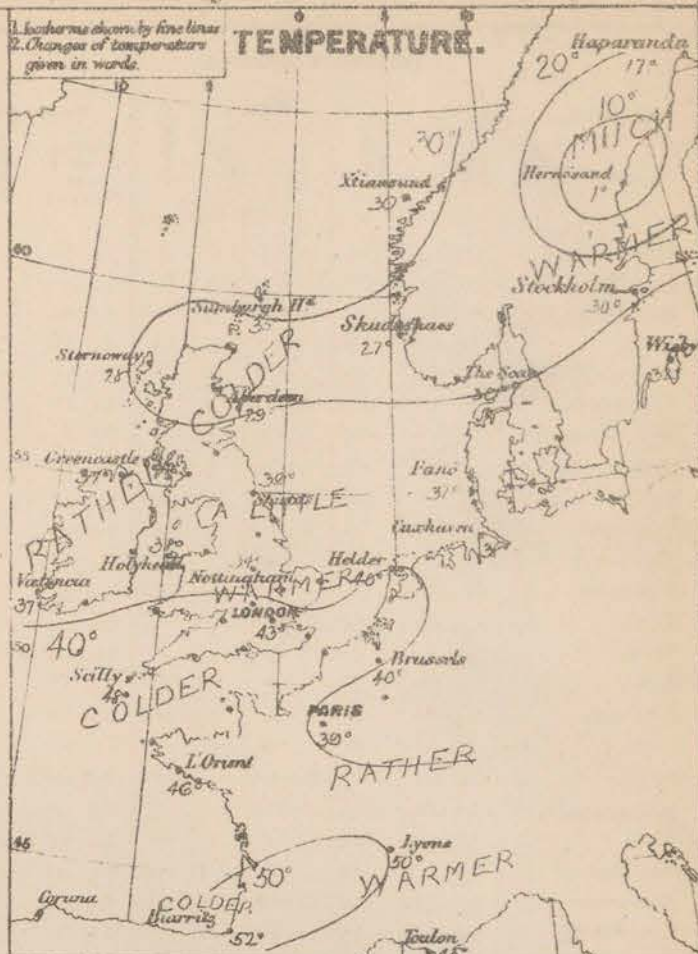
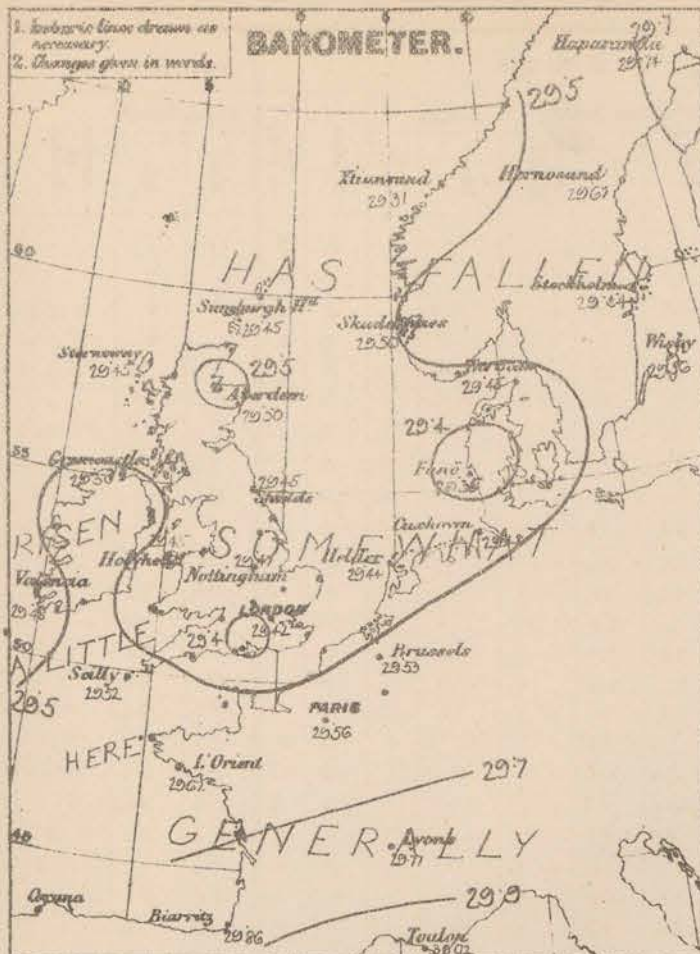
\* AN ASTERISK is inserted in all places for which information is not usually received.

† 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 27<sup>th</sup> Dec<sup>r</sup> 1878.



**REMARKS.** Weather is fine in the north east of Scotland but cloudy or dull in all other places, with much fog and mist over England, rain at Dover, Paris and Biarritz, and snow at Nottingham. Rain or snow and hail have fallen except in the north west and north east, heavily at Rochefort, Cambridge, Pembroke and Nottingham. Temperature has fallen fast in the north of Scotland and slightly at most of the Irish stations but has changed little and irregularly elsewhere; readings vary from 40° at Lillie to 20° at Thurso; during yesterday the thermometer rose to 52° at Lillie, to 50° at Plymouth and to 40° in London, while at no time last night did the thermometer fall below 40° in the south of England. Wind is N to NE in the Channel and south of England, E in the north, N over Ireland and NW over the west of France, while at Valencia an E breeze has appeared locally. Wind is moderate or light in force except at Lillie and in the south of France. Sea is rough off Lillie, moderate in the Channel, slight elsewhere.

**Barometrical Indications.** Pressure is increasing over the central and western parts of England and the greater part of France, but is decreasing elsewhere. Readings are highest over the Mediterranean and lowest over the north west coast of Norway, but a large shallow area of low pressure lies over S. Britain and the North Sea.

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

R. B. SCOTT.  
Secretary



# DAILY WEATHER REPORT

DEC: 28<sup>TH</sup> 1878.

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.		
			Dirco.	Force. (0 to 12).				Dry.	Wet.	Difference from 8 a.m. yesterday.	Dirco.	Force. (0 to 12).			Max.	Min.			
Haparanda ...	29.62	24	S	4	S	29.65	-0.09	14	14	-3	S	2	0	*	25	14	0.24		
Hernösand ...	29.65	-2	E	2	C	29.74	+0.07	-8	-8	-9	E	0	6	*	*	*	-		
Stockholm ...	29.46	32	Z	0	0	29.54	00	32	32	+2	NE	2	0	*	*	*	0.20		
Wibby ...	29.53	38	W	6	A	29.57	+0.01	37	37	+5	SSW	4	f	*	*	*	0.59		
Christiansund ...	29.47	30	SW	2	6	29.59	+0.28	26	24	-4	ESE	1	6	4	30	19	-		
Skudesnaes ...	29.53	26	ESE	2	0	29.52	+0.02	30	27	+3	E	2	6c	2	?	?	-		
Oxö (Tiansand) ...	29.52	29	NNE	4	0	29.50	+0.03	27	?	+1	NNE	6	0	4	?	21	?		
Skagen (The Seaw) ...	29.50	29	NE	4	0	29.48	+0.03	31	30	+1	NE	4	0	4	32	25	-		
Fanö ...	29.42	35	SSW	2	m	29.87	+0.02	35	35	-2	S	4	f	*	37	34	0.08		
Cuxhaven ...	29.51	38	SSW	3	A	29.48	00	38	38	0	S	3	A	*	?	36	0.47		
Sumburgh Head ...	29.38	35	NE	5	A	29.43	-0.02	35	35	0	SSE	3	0	3	35	31	0.31		
Stornoway ...	29.38	33	Z	0	C	29.37	-0.08	32	32	+4	Z	0	cf	0	33	25	0.02		
Thurso ...	29.44	24	Z	0	6	29.43	-0.06	19	19	-1	S	1	bm	3	27	17	-		
Wick ...	29.43	30	W	1	6	29.44	-0.04	26	25	+3	SW	1	6c	0	33	20	-		
Nairn ...	29.44	20	Z	0	6	29.43	-0.08	19	19	-5	Z	0	6c	0	28	11	-		
Aberdeen ...	29.43	30	Z	0	m	29.45	-0.05	30	29	+1	Z	0	m	1	31	25	0.09		
Leith ...	29.44	33	WNW	2	0	29.43	-0.04	33	33	-1	Z	0	of	*	35	31	0.02		
Shields ...	29.44	36	WNW	1	omd	29.48	+0.03	32	32	-7	Z	0	6c	3	39	32	0.03		
Scarborough ...	29.44	36	WSW	1	0	29.48	+0.06	33	33	-6	WSW	1	of	2	39	32	-		
York ...	29.45	35	SW	1	0	29.52	+0.07	32	32	+1	S	1	0	*	36	30	0.01		
Nottingham ...	29.46	34	Z	0	0	29.57	+0.10	34	34	0	SSW	1	e	*	35	31	0.20		
Ardrossan ...	29.43	34	NE	1	0	29.43	-0.06	32	31	-2	ENE	1	cf	0	36	31	0.01		
Greencastle ...	29.42	29	NE	1	0	29.36	-0.14	33	32	-4	SE	1	0	*	36	24	-		
Donaghadee ...	29.41	37	SSE	2	C	29.43	-0.10	33	33	0	WSW	3	0	2	38	33	0.16		
Kingstown ...	29.39	37	Z	0	A	29.42	-0.08	40	39	+5	SSE	2	0	2	40	34	0.19		
Holyhead ...	29.40	36	SSE	1	m	29.44	-0.01	44	43	+6	SW	2	0	1	45	35	0.04		
Liverpool (Hedston) ...	29.42	33	ESE	1	0	29.48	+0.03	40	38	+7	SSW	1	0	1	41	33	0.04		
Valencia ...	29.36	41	NW	1	C	29.24	-0.24	47	45	+10	SSW	7	2g	6	50	35	0.69		
Roche's Point ...	29.38	38	NNE	3	A	29.37	-0.14	45	44	+9	SSW	5	uo	4	46	34	0.16		
Pembroke ...	29.35	42	SE	2	0	29.49	+0.03	47	46	+5	SSW	4	0	4	47	39	0.09		
Portishead ...																			
Seilly ...	29.44	50	W	6	C	29.54	+0.02	49	47	+1	SSW	6	0	6	50	47	0.13		
Plymouth ...	29.37	45	Z	0	0	29.59	+0.10	45	45	+4	S	2	6	*	48	40	0.22		
Hurst Castle ...	29.4	42	SSW	2	A	29.62	+0.23	45	45	+2	SW	4	0	4	46	41	0.21		
Dover ...	29.50	39	W	4	0	29.65	+0.21	39	38	-4	SW	3	6	3	45	38	0.18		
London ...	29.49	39	WSW	1	om	29.63	+0.21	39	38	-4	SSW	2	6c	*	46	36	0.14		
Oxford ...	29.48	34	W	1	0	29.61	+0.20	38	37	-3	Z	0	6c	*	42	33	0.23		
Cambridge ...	29.46	35	WNW	1	0	29.60	+0.18	34	33	+1	SW	1	C	*	36	33	0.26		
Yarmouth ...	29.42	36	Z	0	f	29.58	+0.16	35	35	-1	WNW	2	of	2	37	32	0.31		
The Helder ...	*	*	*	*	*	29.45	+0.01	40	39	0	W	4	0	*	*	*	0.39		
Cape Gris Nez ...	29.56	43	WSW	5	0	29.69	+0.20	43	43	+2	WSW	3	6c	3	45	39	0.16		
Jersey ...	29.54	46	S	3	0	29.69	+0.17	43	43	-2	SSW	3	6cm	3	49	42	0.10		
Brest ...	29.62	50	WNW	4	6	29.60	-0.01	46	45	0	ESE	4	6	4	52	45	0.08		
L'Orient ...	29.63	50	W	4	m	29.70	+0.08	45	43	-1	SSE	3	m	5	52	41	0.08		
Rochefort ...	29.78	52	WSW	5	0	29.78	+0.11	46	42	-2	ESE	5	m	3	55	41	0.07		
Biarritz ...	29.91	54	SSW	3	6c	29.78	-0.08	54	46	+2	SE	4	C	4	59	46	0.24		
Corunna ...	*	*	*	*	*										*	*	*		
Brussels ...	*	*	*	*	*	29.68	+0.15	43	41	+3	SW	4	0	*	45	40	0.04		
Charleville ...	*	*	*	*	*	29.72	+0.18	41	*	+2	WSW	3	C	*	*	*	*		
Paris ...	29.72	44	SW	2	0	29.83	+0.27	38	37	-1	SW	2	6	*	*	*	0.08		
Lyons ...	*	*	*	*	*	29.97	+0.20	48	*	-2	NE	2	m	*	*	*	*		
Toulon ...	29.95	48	SE	1	0	29.98	-0.04	46	46	+1	SW	4	6c	3	48	45	-		

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

	Bar.	Dry.	Wet.	Wind.	Wes.	Sea.		Bar.	Dry.	Wet.	Wind.	Wes.	Sea.		
Skudesnaes ...	29.51	28	26	NE	2	b	2	Valencia .....	29.37	37	36	Z	0	ons	1
Thurso .....	29.46	27	26	Z	0	c	3	Scilly .....	29.43	48	48	SSW	5	A	6
Scarborough ...	29.43	37	36	WNW	1	c	2	London .....	29.45	42	41	E	2	omd	*
Mullaghmore ...	29.45	35	33	SE	3	c	2	Rochefort ...	29.76	50	50	W	4	c	3
Holyhead .....	29.41	38	37	SSE	1	m	1								

Pressure is increasing somewhat in the E, but decreasing in the W. and N. Readings are exceedingly uniform and the wind except at Seilly very light.

Mullaghmore	29.38	35	E	5	og	29.32	-0.21	34	33	+1	E	3	0	3	48	31	0.12
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## 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.

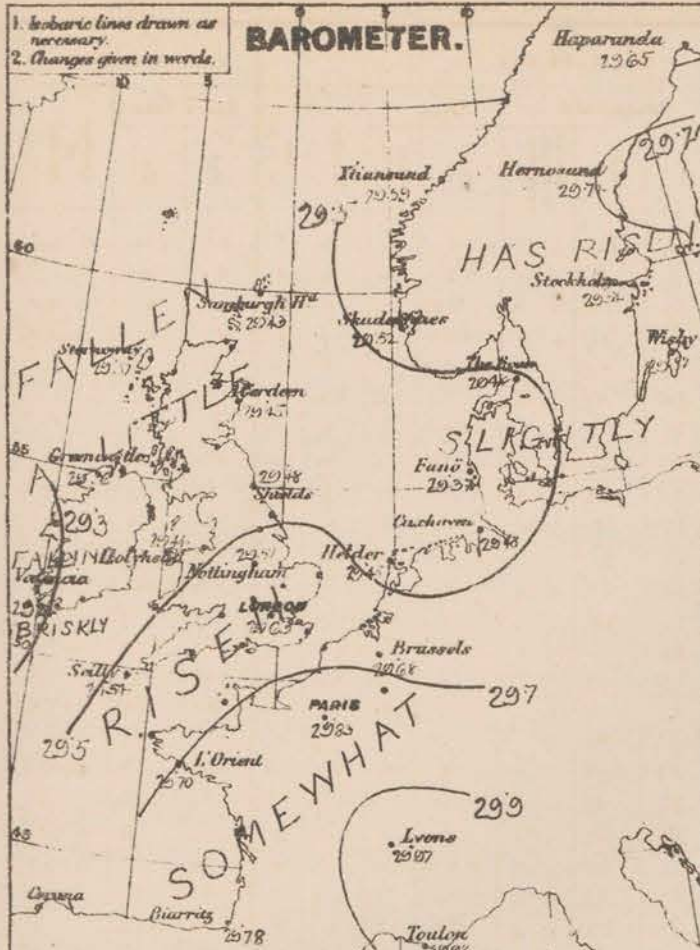
N.B.—The wind is said to "veer" when its direction changes with the sun, and to "back" when it shifts in the opposite direction.



# WEATHER CHARTS for 8 a.m. on Saturday 28<sup>th</sup> DEC<sup>r</sup> 1876.

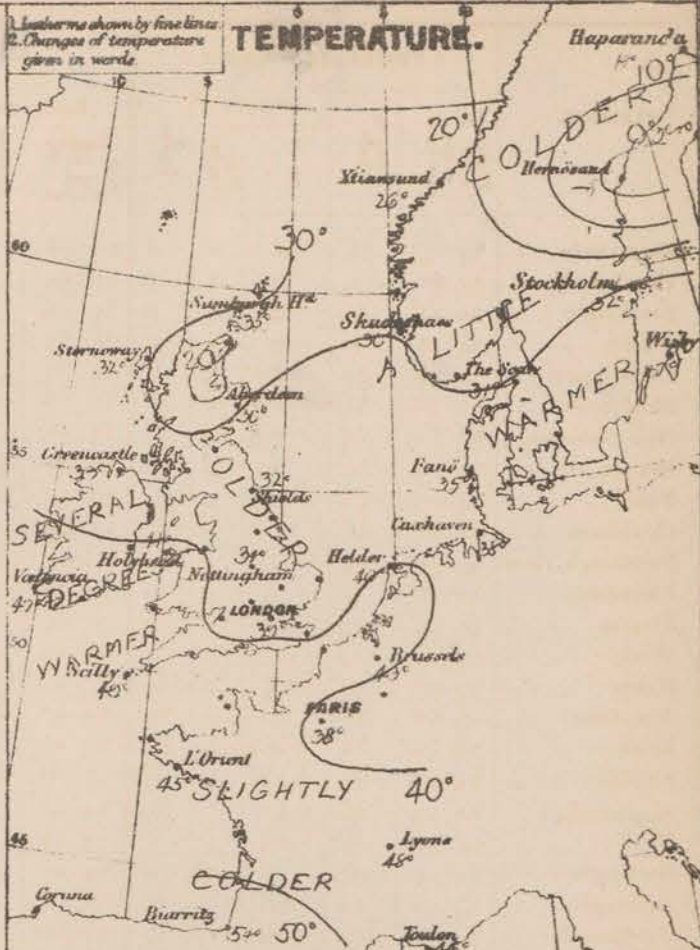
1. Isobaric lines drawn as necessary.
2. Changes given in words.

## BAROMETER.



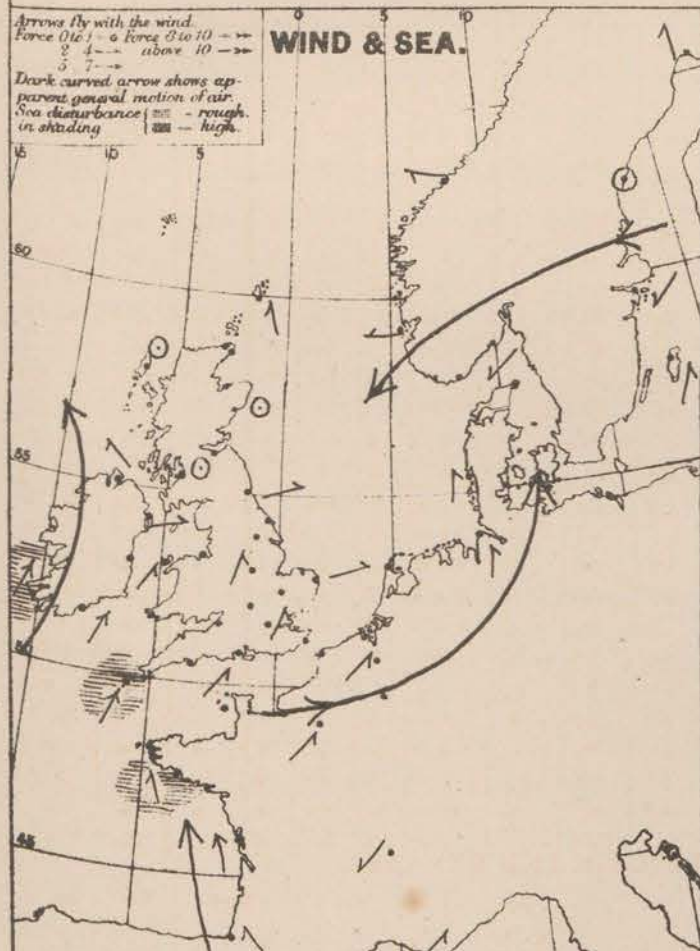
1. Isotherms shown by fine lines.
2. Changes of temperature given in words.

## TEMPERATURE.



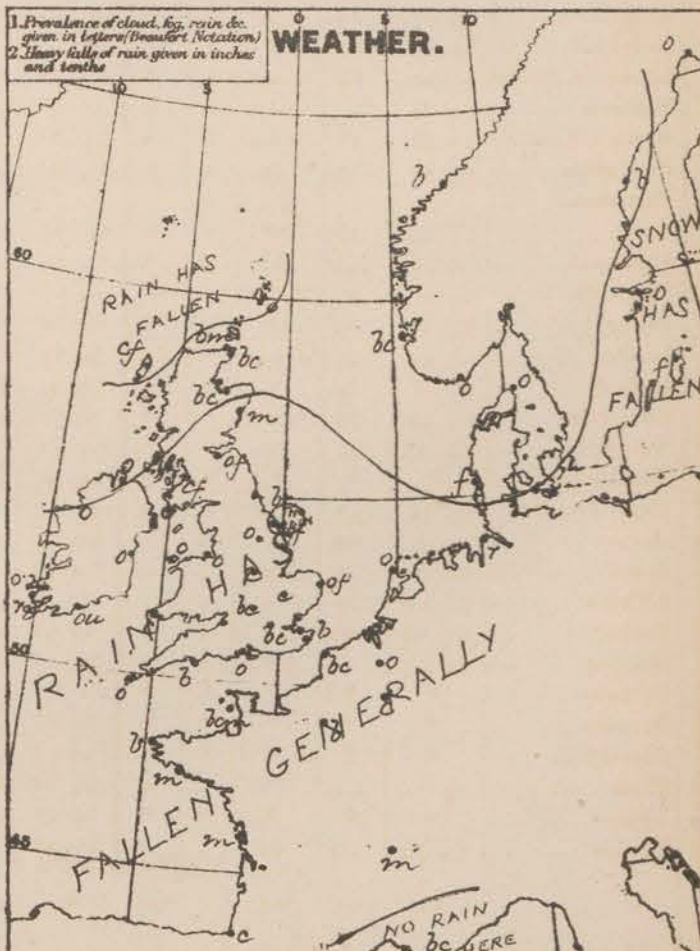
1. Arrows fly with the wind. Force 0 to 10 - - - - - above 10 - - - - -
2. Dark curved arrow shows apparent general motion of air.
3. Sea disturbance - rough in shading - high.

## WIND & SEA.



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

## WEATHER.



**REMARKS.** Weather moderately fine at the south eastern and some of the Scotch stations, cloudy or dull elsewhere, with fog or mist at a few places, and rain at Valentia. Rain has fallen in nearly all places and thunder, lightning and hail occurred at Valentia at 7 this morning. Temperature has fallen at our eastern and south eastern stations, as well as in some parts of Scotland but has risen in most other places; it varies from 49° at Sully to 19° at Harbin - a difference of 30°. During last night the thermometer fell to 11° at Harbin and 17° at Sluice, and the weather is still very cold in the north of Scotland. Wind is S.E. over the Bay of Biscay, and S. to S.W. on most of our coasts, but is E. in the north of Ireland. It is light or moderate generally, but blows freshly or strongly in the south west and with the force of a moderate gale at Valentia. Sea is rough in the south west, moderate to smooth on our other coasts.

**Barometrical Indications.** Pressure is increasing in the south and east but decreasing in the west and north west. Readings are relatively high over the south east of France and north east of Sweden and lowest off Valentia, towards which station a depression appears to be advancing from S.W.

Subscription for these Charts payable in advance to cover delivery. Delivery by hand 1/4 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 DEC<sup>r</sup> 22<sup>nd</sup> to DEC<sup>r</sup> 28<sup>th</sup> 1878.

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

The principal feature in this week's weather has been the exceedingly sudden change from frost to thaw which occurred on Wednesday and Thursday. From Sunday until Tuesday an area of low pressure lay to the E<sup>nd</sup> of the North Sea, and a region of high pressure off our W<sup>est</sup> coasts N<sup>W</sup> to N<sup>NE</sup> breezes prevailed on our coasts with occasional <sup>snow</sup> showers and very cold frosty weather. On Tuesday the anticyclone from the N advanced over us a further fall of temperature occurred with dry fine weather and very light breezes. Dense fog and severe cold weather were developed over Central England, the thermometer falling quickly at night, so that the lowest temperatures of this winter were recorded. On Wednesday morning the change had commenced; the anticyclone had moved on to North Germany, a fall of half an inch in the barometer at the SW<sup>est</sup> stations had produced rather steep gradients for SE<sup>ast</sup> winds in that region, and SE<sup>ast</sup> breezes reaching the force of a fresh to strong gale at sea. From that time until the close of the week pressure was lowest on our W<sup>est</sup> and N<sup>orth</sup> coasts, and SW<sup>est</sup> to N<sup>orth</sup> winds with high temperatures prevailed. Rain has been general lately and on some occasions heavy.

## SUNDAY DEC<sup>r</sup> 22<sup>nd</sup>

Weather still unsettled and the amount of clouds variable. Snow falling in some places and snow showers occurring subsequently at nearly all but our eastern stations.

Temperature lower than on 21<sup>st</sup> except in the NE. of England. Readings varying from 45° at Scilly to 23° at York. Minima in following night 20° or below in E. and NE.

Wind fresh to strong from N. in Scotland, from N. on our other coast, and from SW in North Germany. Tending NW<sup>est</sup> over England and Ireland during day.

Sea rough in the N. and SW.

Barometer falling at our SW<sup>est</sup> stations, and on the E<sup>ast</sup> shores of the North Sea, rising in the N. and NW. Disturbance <sup>(S. Norway)</sup> over. Not much change in later reports.

## MONDAY DEC<sup>r</sup> 23<sup>rd</sup>

Weather fair over the greater part of these Islands but cloudy and snowy in the N. of Scotland, and dull over France. Snow falling later in the day in the NW. and NE.

Temperature fallen fast over England, Ireland and the NW. of France, risen somewhat elsewhere. Readings varying from 43° at Scilly to 18° at York. Minima in following night 14° at Nottingham and 15° at Oxford.

Wind N<sup>W</sup> to NW<sup>est</sup> on our coasts SE<sup>ast</sup> to E<sup>ast</sup> over France, fresh at some of the N<sup>orth</sup> and NW<sup>est</sup> stations, light or moderate elsewhere. Little change during day.

Sea rather rough in the N. and NW.

Barometer falling over France, rising elsewhere. Pressure greatest off our SW<sup>est</sup> coast, least over the Baltic, but separate depression over the Bay of Biscay. Barometer still rising in the afternoon.

## TUESDAY DEC<sup>r</sup> 24<sup>th</sup>

Weather fair generally except in France, mist prevailing at several stations, fog in London and at Oxford, snow in the Shetlands and at Christiansund. Snow in N. rain in W. later in the day.

Temperature risen Sweden, fallen most other places, varying from 43° at Scilly to 15° over Central England. Following night extremely cold at English stations, minima 6° at Oxford and Nottingham and 11° in London and at York.

Wind NW<sup>est</sup> on most of our coast, E<sup>ast</sup> over the Channel and France; strong at Scilly, moderate or light elsewhere. NW<sup>est</sup> gale Christiansund. The E<sup>ast</sup> wind spreading over NW<sup>est</sup> stations during day and increasing in force.

Sea moderate to smooth in morning, rough in SW in evening.

Barometer risen briskly in nearly all parts of our area, but falling at Coruña. Anticyclone lying over Ireland and England, but depression subsequently crossing Bay of Biscay to our SW<sup>est</sup> coast.



WEDNESDAY DEC<sup>r</sup> 25<sup>th</sup>

Weather fair at some of the NE<sup>m</sup> and N<sup>m</sup> stations, but dull generally, with rain at Cork and Pembroke. Rain over the whole of Ireland and England later in the day.

Temperature fallen in the NE. and Central parts of England, risen briskly in the N., W., and SW. Risen steadily in succeeding 24 hours in the S.

Wind W<sup>ly</sup> in the N., SE<sup>ly</sup> to E<sup>ly</sup> in the S. and W.; strong generally in the SW. and blowing a gale at Scilly and Cork. Falling lighter by the evening.

Sea rough in the SW. high at Scilly

Barometer highest (and rising) over North Germany and the E. of France, falling briskly elsewhere. Large area of low pressure in the SW. small depression in N. gradient steep. Pressure going way over the United Kingdom all day.

THURSDAY DEC<sup>r</sup> 26<sup>th</sup>

Weather unsettled, dull or very cloudy everywhere, snow falling in the NE. and rain at some stations. Rain, snow or hail during the day, except in the W. and N.

Temperature fallen in the E. of Scotland and E. of Ireland, risen fast elsewhere - as much as 20° over Central England. Low readings varying from 50° at Scilly to 24° at Aberdeen. Rapid thaw in S., maximum readings 45° in London, 52° at Scilly.

Wind S<sup>ly</sup> to SW<sup>ly</sup> over France, the Channel and S. of England, SE<sup>ly</sup> to E<sup>ly</sup> in the N.; fresh to strong in some places, but moderate generally.

Sea rough in the Channel.

Barometer falling briskly, rapidly over Central England. Readings highest over E<sup>m</sup> Europe, and lowest over our SW. coasts. Not much change during the day. Depression in SW. moving E<sup>ward</sup> very slowly.

FRIDAY DEC<sup>r</sup> 27<sup>th</sup>

Weather fair at many of our more N<sup>m</sup> stations, but dull or very cloudy elsewhere with fog or mist in several parts of England and at Fano, snow at Nottingham. Rain subsequently occurring generally.

Temperature rather lower than on the 26<sup>th</sup> at our N<sup>m</sup>, W<sup>m</sup> and SW<sup>m</sup> stations, but higher elsewhere. Readings varying from 45° at Scilly to 20° at Thurso. Maxima in the S. between 45° and 50°.

Wind variable in the NE., N<sup>ly</sup> over Ireland, W<sup>ly</sup> to SW<sup>ly</sup> over the Channel, and NW<sup>ly</sup> over the Bay of Biscay; more variable on the eastern shores of the North Sea. Light and variable on our coasts during the day.

Sea rough both in the SW. and NE.

Barometer unsteady; rising over the W. of France and W. and N. of England, falling elsewhere. Pressure greatest over the Mediterranean, and several small depressions shown over or near the British Isles.

SATURDAY DEC<sup>r</sup> 28<sup>th</sup>

Weather fair in the SE. and in some parts of Scotland, dull in most other places. Fog or mist at a few stations, rain at Valentia. Rain everywhere during day - heavy in the W. and N.

Temperature fallen over France, on our NE. coasts and in Sweden, risen elsewhere. Weather mild in the S. still cold in Scotland (19° at Kilm), but getting much warmer during the day.

Wind SE<sup>ly</sup> over the Bay, generally S<sup>ly</sup> to SW<sup>ly</sup> on most of our coasts, but E<sup>ly</sup> in the N. of Ireland and calm in Scotland. Strong in force in the SW. and increasing to a fresh gale at Scilly in the afternoon.

Sea rough in the SW.

Barometer rising at the more E<sup>m</sup> and S<sup>m</sup> stations, falling in the W. Readings highest in the S. of France, and small depressions appearing over our W<sup>m</sup> coasts in the course of the day.

Meteorological Office,

116 Victoria Street, Westminster, S.W.

ROBERT H. SCOTT, Secretary.



# DAILY WEATHER REPORT

DEC<sup>r</sup> 29<sup>th</sup> 1878.

STATIONS.	† YESTERDAY EVENING.						8 A.M. TO DAY.										LAST 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.		
			Dirco.	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.	Dirco.	Force. (0 to 12).			Max.	Min.			
Haparanda ...	29.84	-10	L	0	0	29.99	+34	-6	-6	-20	NE	2	f	*	14	-13	-		
Hernösand ...	29.84	-3	N	2	0	29.96	+22	1	1	+9	N	2	bc	*	*	*	-		
Stockholm ...	29.86	32	NE	4	5	29.69	+45	32	32	0	NE	2	0	*	*	*	0.20		
Wisby ...	29.60	38	SW	4	7	29.72	+15	36	36	-1	SSE	4	f	*	*	*	0.08		
Christiansund ...	29.67	23	E	2	0	29.72	+13	30	28	+4	NE	1	b	3	?	16	-		
Skudesnaes ...	29.63	28	L	0	0	29.66	+14	33	31	+3	SSE	6	0	4	?	28	-		
Oxö (Xtiansand) ...	29.62	28	NNW	4	0	29.75	+25	28	27	+1	NE	6	0	4	28	25	-		
Skagen (The Seaw) ...	29.56	33	ESE	6	0	29.77	+29	30	29	-1	ENE	2	0	2	34	27	0.16		
Fanö ...	29.71	32	WSW	2	0	29.68	+31	30	30	-5	SE	4	bc	*	36	28	0.04		
Cuxhaven ...	29.67	37	N	4	7	29.68	+20	36	36	-2	SSE	4	0	*	37	32	0.14		
Sumburgh Head ...	29.51	35	SSE	4	0	29.39	-104	37	36	+2	E	7	f	6	39	30	0.08		
Stornoway ...	29.32	33	NE	2	m	29.12	-25	37	36	+5	WSW	1	d	1	39	29	0.32		
Thurso ...	29.45	35	SSE	2	0	29.19	-24	38	38	+19	SE	2	f	4	38	29	0.43		
Wick ...	29.42	39	S	5	7	29.14	-30	39	38	+13	SSE	5	f	5	42	20	0.80		
Nairn ...	29.40	26	L	0	0	29.15	-28	33	32	+14	L	0	f	1	33	19	0.05		
Aberdeen ...	29.45	35	S	2	0	29.13	-32	37	36	+7	SSW	1	d	2	41	29	0.83		
Leith ...	29.41	35	ESE	3	f	29.15	-28	34	34	+1	WSW	1	0	*	38	31	0.19		
Shields ...	29.30	38	S	2	f	29.22	-26	36	35	+4	WSW	1	cm	2	39	32	0.08		
Scarborough ...	29.34	37	SSE	1	0	29.30	-18	38	38	+5	WSW	2	0	2	39	33	0.19		
York ...	29.34	36	S	1	0	29.35	-17	38	37	+6	SW	1	0	*	38	31	0.25		
Nottingham ...	29.30	39	S	2	0	29.40	-17	35	35	+1	WSW	1	0	*	39	34	0.20		
Ardrossan ...	29.34	37	E	3	0	29.22	-21	35	34	+3	SE	1	0	0	41	32	0.36		
Greenacastle ...	29.21	40	SE	4	0	29.18	-18	36	36	+3	SW	2	0	*	40	32	0.56		
Donaghadee ...	29.31	43	S	5	0	29.27	-16	37	37	+4	SW	4	0	3	44	32	0.22		
Kingstown ...	29.30	42	?	2	0	29.27	-15	39	38	-1	SSW	1	0	2	42	35	0.08		
Holyhead ...	29.35	43	S	2	m	29.30	-14	41	41	-3	SSW	2	m	1	46	40	0.97		
Liverpool (Hidston) ...	29.41	38	ESE	3	0	29.33	-15	40	38	0	SSW	2	bc	1	42	37	0.33		
Valencia ...	29.21	45	SSW	1	0	29.26	-100	43	42	-4	SSE	1	0	1	49	38	0.03		
Roche's Point... ..	29.24	41	WSW	3	0	29.28	-109	37	36	-8	N	1	f	3	47	34	0.02		
Pembroke ...	29.27	47	SE	5	f	29.35	-114	45	44	-2	SSW	1	0	3	47	42	1.04		
Portishead ...																			
Scilly ...	29.32	47	N	6	f	29.34	-120	49	48	0	SSE	6	f	6	51	45	0.75		
Plymouth ...	29.37	47	S	3	0	29.40	-119	40	40	-5	E	2	0	*	48	37	0.94		
Hurst Castle ...	29.49	43	S	4	0	29.45	-117	41	40	-4	WSW	3	bc	5	47	40	0.09		
Dover ...	29.64	44	SSW	3	0	29.40	-125	45	44	+6	WSW	4	cm	3	46	38	0.02		
London ...	29.57	45	S	3	0	29.43	-120	42	41	+3	N	3	0	*	48	38	0.08		
Oxford ...	29.51	42	S	1	0	29.43	-118	38	37	0	N	2	f	*	45	36	0.20		
Cambridge ...	29.55	40	S	1	0	29.38	-125	41	40	+7	SW	1	0	*	44	33	0.10		
Yarmouth ...	29.63	40	SSW	2	0	29.38	-120	41	41	+6	SSW	2	f	3	41	34	0.08		
The Helder ...	*	*	*	*	*	29.45	-100	37	36	-3	SSE	2	0	*	*	*	-		
Cape Gris Nez ...	29.64	43	SSE	3	0	29.41	-128	45	45	+2	SW	5	f	4	48	43	0.12		
Jersey ...	29.48	44	SSE	3	0	29.30	-119	44	44	+1	S	3	cm	3	48	42	0.10		
Brest ...	29.36	50	S	5	f	29.37	-123	46	45	0	S	4	f	5	50	45	0.28		
L'Orient ...	29.45	48	SE	3	m	29.47	-123	48	46	+3	S	5	f	5	50	41	0.20		
Rochefort ...	29.58	50	SE	5	0	29.70	-108	48	46	+2	SSW	4	0	3	55	41	0.16		
Biarritz ...	29.55	55	SSE	5	0	29.78	-100	55	48	+1	S	5	0	5	57	46	0.04		
Corunna ...	*	*	*	*	*	29.78	+122	55	*	+1	N	9	0	7	*	*	*		
Brussels ...	*	*	*	*	*	29.49	-119	46	44	+3	S	5	0	*	46	39	-		
Charleville ...	*	*	*	*	*	29.55	-117	47	*	+6	SW	6	f	*	*	*	*		
Paris ...	29.67	44	?	2	0	29.64	-119	44	41	+6	WSW	4	0	*	*	*	0.26		
Lyons ...	*	*	*	*	*	29.90	-107	34	*	+6	S	7	0	*	*	*	*		
Toulon ...	29.98	48	SE	5	m	30.01	+103	52	52	+6	E	4	m	4	52	45	-		

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

	Bar.	Dry.	Wet.	Wind.	Wea.	Sea.		Bar.	Dry.	Wet.	Wind.	Wea.	Sea.		
Skudesnaes ...	29.58	28	25	NNE	2	C	2	Valencia .....	29.22	48	46	SSW	3	0	4
Thurso .....	29.47	25	24	S	1	bc	3	Scilly .....	29.34	51	51	S	8	f	6
Scarborough ...	29.55	37	37	SW	1	0	2	London .....	29.60	48	47	S	2	0	*
Mullaghmore ...	29.17	42	41	SSW	6	ow	4	Rocheport ...	29.64	52	50	SE	4	bc	3
Holyhead .....	29.41	44	44	S	3	m	2								

Pressure is decreasing briskly in the SW., and the wind has increased to a fresh gale from S. at Scilly.

Mullaghmore ...	29.16	42	SSW	5	0	29.19	-113	40	39	+6	SSW	4	bc	4	53	34	0.020
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## EXPLANATION OF COLUMNS

**WEATHER.**--Beaufort scale is, b. blue sky; c. detached clouds; d. drizzling rain; f. fog; g. dark, gloomy; h. hail; i. 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.

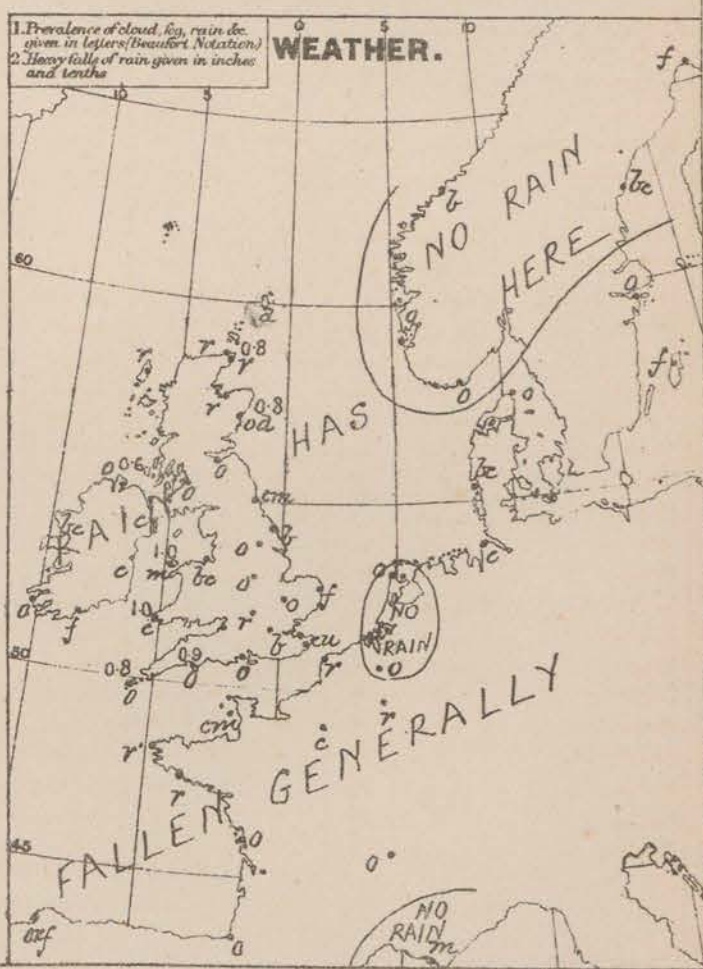
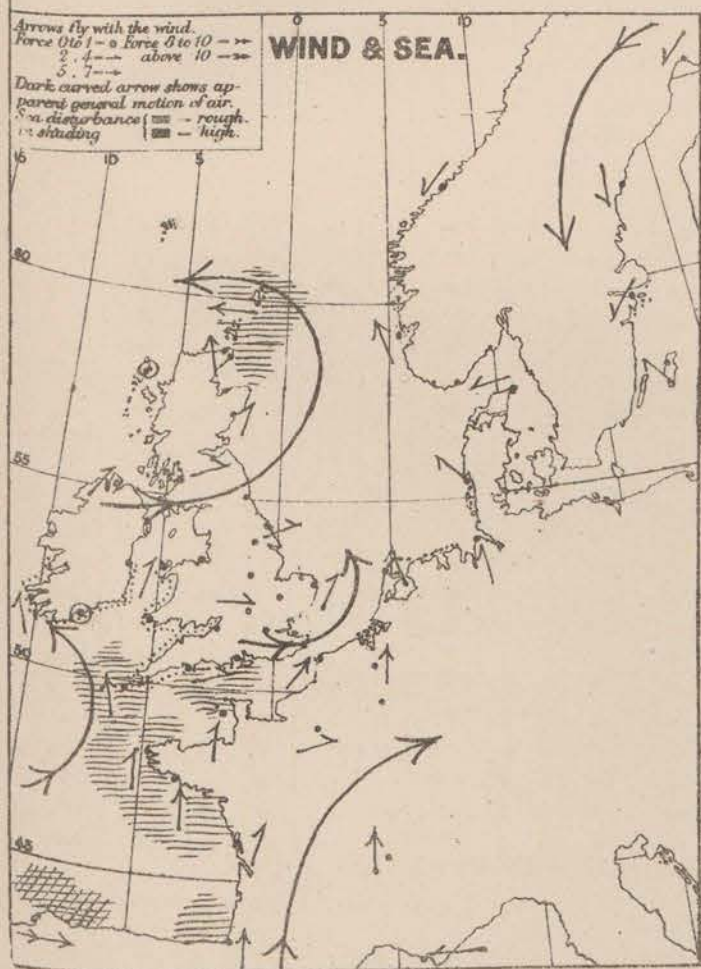
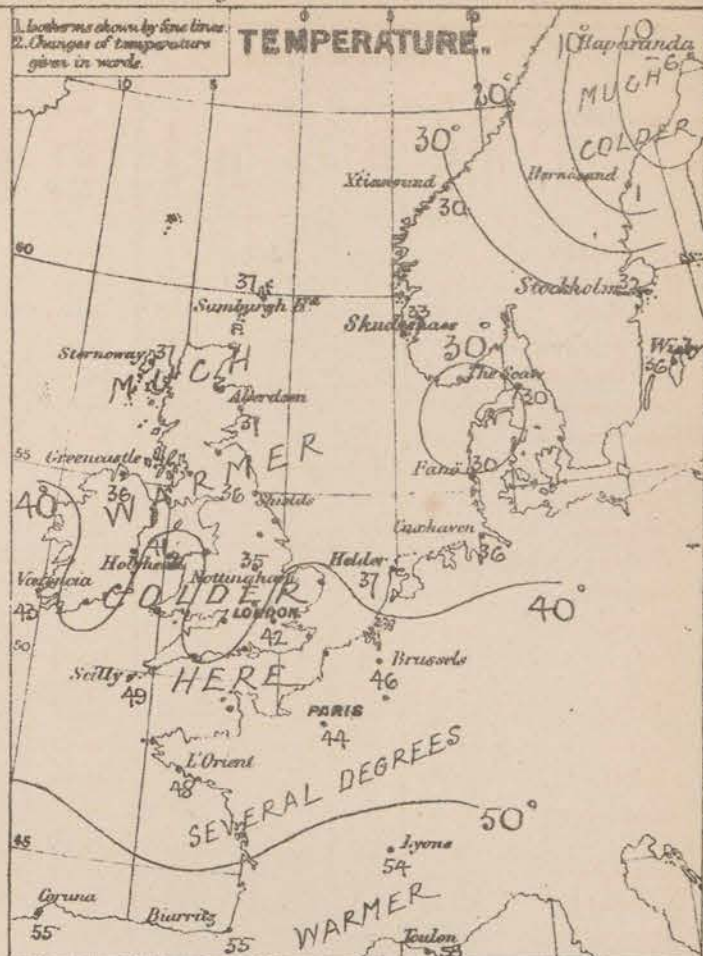
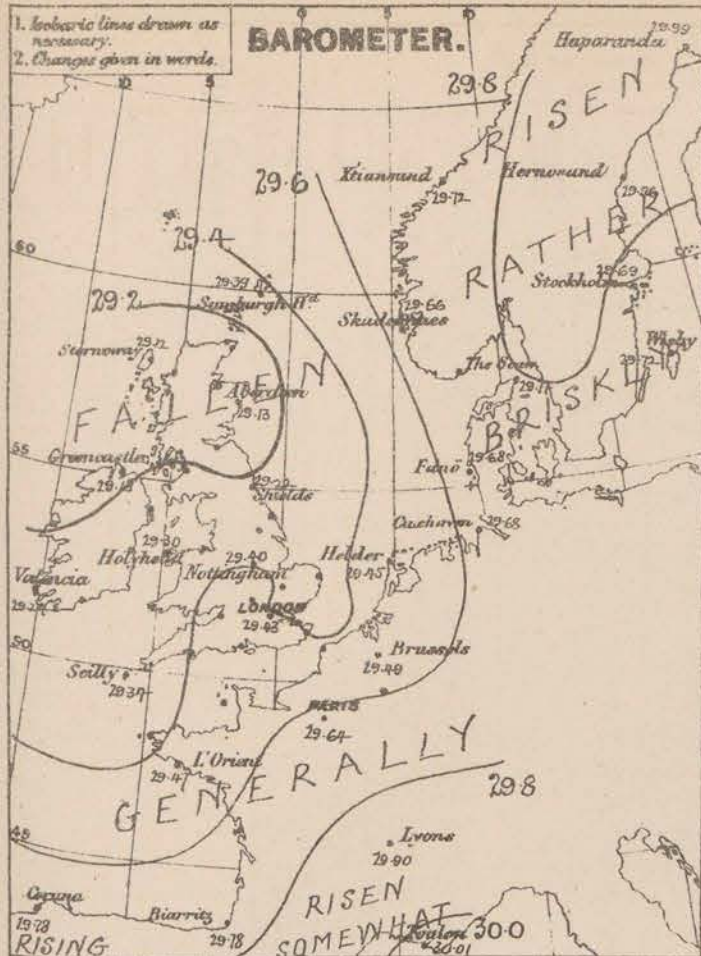
\* AN ASTERISK is inserted in all places for which information is not usually received.

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



## 1878.



A dotted line has been drawn round the events where the signals are up.

REMARKS. Weather is cloudy or dull in nearly all parts of W<sup>e</sup> Europe, with rain at all the more N<sup>w</sup> Scotch stations, and in the NW. and NE. of France, and fog in several places. Very heavy rain has fallen on our SW, W, and N. coasts. Temperature has risen just in the N. of Scotland, and slightly on most of our more N<sup>w</sup> and E<sup>w</sup> coasts, but has fallen a few degrees in the SW. It is much more uniform than of late. Wind is E<sup>w</sup> in the Shetlands, but is generally S<sup>w</sup> (SW. to SE.) on our other coasts. It blows a moderate gale at Simsbrough Head, and strongly at Scilly, but is moderate or light elsewhere. In Scandinavia a fresh N<sup>w</sup> to NE<sup>w</sup> breeze is reported. Sea is rough in the SW, and calmer N, moderate to slight on our other coasts.

Barometrical Indications. The barometer is falling somewhat at all our more N<sup>w</sup> and E<sup>w</sup> stations, but rising elsewhere. Readings are comparatively high both over the Gulf of Bothnia and the Mediterranean, while deep depressions are shown over Scotland, and a second (smaller one) over the SE. of England.

Hannings. Our SW. coasts were warmed yesterday.

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

R. H. SCOTT.  
Secretary

Dangerfield Lot 22-4-18-19-20-21-22-23-24-25-26-27-28-29-30-31-32-33-34-35-36-37-38-39-40-41-42-43-44-45-46-47-48-49-50-51-52-53-54-55-56-57-58-59-60-61-62-63-64-65-66-67-68-69-70-71-72-73-74-75-76-77-78-79-80-81-82-83-84-85-86-87-88-89-90-91-92-93-94-95-96-97-98-99-100-101-102-103-104-105-106-107-108-109-110-111-112-113-114-115-116-117-118-119-120-121-122-123-124-125-126-127-128-129-130-131-132-133-134-135-136-137-138-139-140-141-142-143-144-145-146-147-148-149-150-151-152-153-154-155-156-157-158-159-160-161-162-163-164-165-166-167-168-169-170-171-172-173-174-175-176-177-178-179-180-181-182-183-184-185-186-187-188-189-190-191-192-193-194-195-196-197-198-199-200-201-202-203-204-205-206-207-208-209-210-211-212-213-214-215-216-217-218-219-220-221-222-223-224-225-226-227-228-229-230-231-232-233-234-235-236-237-238-239-240-241-242-243-244-245-246-247-248-249-250-251-252-253-254-255-256-257-258-259-260-261-262-263-264-265-266-267-268-269-270-271-272-273-274-275-276-277-278-279-280-281-282-283-284-285-286-287-288-289-290-291-292-293-294-295-296-297-298-299-300-301-302-303-304-305-306-307-308-309-310-311-312-313-314-315-316-317-318-319-320-321-322-323-324-325-326-327-328-329-330-331-332-333-334-335-336-337-338-339-340-341-342-343-344-345-346-347-348-349-350-351-352-353-354-355-356-357-358-359-360-361-362-363-364-365-366-367-368-369-370-371-372-373-374-375-376-377-378-379-380-381-382-383-384-385-386-387-388-389-390-391-392-393-394-395-396-397-398-399-400-401-402-403-404-405-406-407-408-409-410-411-412-413-414-415-416-417-418-419-420-421-422-423-424-425-426-427-428-429-430-431-432-433-434-435-436-437-438-439-440-441-442-443-444-445-446-447-448-449-450-451-452-453-454-455-456-457-458-459-460-461-462-463-464-465-466-467-468-469-470-471-472-473-474-475-476-477-478-479-480-481-482-483-484-485-486-487-488-489-490-491-492-493-494-495-496-497-498-499-500-501-502-503-504-505-506-507-508-509-510-511-512-513-514-515-516-517-518-519-520-521-522-523-524-525-526-527-528-529-530-531-532-533-534-535-536-537-538-539-540-541-542-543-544-545-546-547-548-549-550-551-552-553-554-555-556-557-558-559-560-561-562-563-564-565-566-567-568-569-570-571-572-573-574-575-576-577-578-579-580-581-582-583-584-585-586-587-588-589-590-591-592-593-594-595-596-597-598-599-600-601-602-603-604-605-606-607-608-609-610-611-612-613-614-615-616-617-618-619-620-621-622-623-624-625-626-627-628-629-630-631-632-633-634-635-636-637-638-639-640-641-642-643-644-645-646-647-648-649-650-651-652-653-654-655-656-657-658-659-660-661-662-663-664-665-666-667-668-669-670-671-672-673-674-675-676-677-678-679-680-681-682-683-684-685-686-687-688-689-690-691-692-693-694-695-696-697-698-699-700-701-702-703-704-705-706-707-708-709-710-711-712-713-714-715-716-717-718-719-720-721-722-723-724-725-726-727-728-729-730-731-732-733-734-735-736-737-738-739-740-741-742-743-744-745-746-747-748-749-750-751-752-753-754-755-756-757-758-759-760-761-762-763-764-765-766-767-768-769-770-771-772-773-774-775-776-777-778-779-780-781-782-783-784-785-786-787-788-789-790-791-792-793-794-795-796-797-798-799-800-801-802-803-804-805-806-807-808-809-810-811-812-813-814-815-816-817-818-819-820-821-822-823-824-825-826-827-828-829-830-831-832-833-834-835-836-837-838-839-840-841-842-843-844-845-846-847-848-849-850-851-852-853-854-855-856-857-858-859-860-861-862-863-864-865-866-867-868-869-870-871-872-873-874-875-876-877-878-879-880-881-882-883-884-885-886-887-888-889-890-891-892-893-894-895-896-897-898-899-900-901-902-903-904-905-906-907-908-909-910-911-912-913-914-915-916-917-918-919-920-921-922-923-924-925-926-927-928-929-930-931-932-933-934-935-936-937-938-939-940-941-942-943-944-945-946-947-948-949-950-951-952-953-954-955-956-957-958-959-960-961-962-963-964-965-966-967-968-969-970-971-972-973-974-975-976-977-978-979-980-981-982-983-984-985-986-987-988-989-990-991-992-993-994-995-996-997-998-999-1000-1001-1002-1003-1004-1005-1006-1007-1008-1009-1010-1011-1012-1013-1014-1015-1016-1017-1018-1019-1020-1021-1022-1023-1024-1025-1026-1027-1028-1029-1030-1031-1032-1033-1034-1035-1036-1037-1038-1039-1040-1041-1042-1043-1044-1045-1046-1047



# DAILY WEATHER REPORT

DEC<sup>r</sup> 30<sup>th</sup> 1878.

STATIONS.	† YESTERDAY EVENING.						8 A.M. TO DAY.										PART 24 HOURS.		
	Barometer at 32° F. and Sea Level.	Temp. in shade.	WIND.		Weather.	Barometer. Reading at 32° F. and Sea Level.	Difference from 8 a.m. yesterday.	SHADE TEMP.			WIND.		Weather.	Sea. (0 to 9).	SHADE TEMP.		Amount of Rainfall.		
			Dirce.	Force. (0 to 12).				Dry.	Wet.	Difference from 8 a.m. yesterday.	Dirce.	Force. (0 to 12).			Max.	Min.			
Haparanda ...	30.02	-16	Z	0	m	29.99	00	-11	-11	-5	Z	0	0	*	-6	-18	-		
Hernösand ...	30.01	8	N	2	0	29.77	-19	13	13	+12	NNE	2	0	*	*	*	0.08		
Stockholm ...	29.88	28	Z	0	0	29.65	-04	34	34	+2	SSH	2	g	*	*	*	0.12		
Wisby ...	29.82	36	SH	4	0	29.71	-01	37	36	+1	SSH	6	r	*	*	*	0.04		
Christiansund ...	29.54	31	ESE	5	0	29.38	-24	35	32	+5	E	2	0	2	36	18	-		
Skudesnaes ...	29.45	37	ESE	6	0	29.30	-34	40	38	+7	SE	8	0	5	?	?	0.08		
Oxö (Xiansand) ...	29.56	31	NE	6	S	29.51	-24	31	30	+3	NE	6	0	4	32	28	0.35		
Skagen (The Seaw)	29.59	37	SE	5	r	29.60	-17	37	36	+7	SSH	4	0	4	37	27	0.43		
Fanö ...	29.60	37	SH	3	f	29.54	-14	36	35	+6	S	6	g	*	37	30	0.16		
Cuxhaven ...	29.61	43	SSH	2	f	29.69	+01	38	38	+2	S	2	0	*	?	36	0.03		
Sumburgh Head ...	29.06	39	ESE	4	r	29.04	-35	43	42	+6	SE	4	0	5	43	37	0.76		
Stornoway ...	29.12	36	N	1	0	28.83	-29	37	37	0	NE	4	r	3	40	34	0.15		
Thurso ...	29.13	37	SH	2	0	28.92	-27	38	38	0	E	2	p	3	39	34	0.46		
Wick ...	29.12	38	S	1	0	28.89	-25	42	41	+3	SSE	3	r	4	43	33	0.27		
Nairn ...	29.15	37	Z	0	0	28.90	-25	36	35	+3	Z	0	0	1	40	33	0.11		
Aberdeen ...	29.28	35	SSH	1	0	28.94	-19	38	38	+1	SSH	1	0	1	41	35	0.27		
Leith ...	29.30	39	NN	1	0	28.95	-20	43	42	+9	NN	4	0	*	43	23	0.19		
Shields ...	29.40	39	NN	1	0	29.09	-13	42	40	+6	NN	1	0	2	42	35	0.10		
Scarborough ...	29.46	38	NN	2	0	29.19	-11	42	42	+4	NN	2	0	2	32	36	0.18		
York ...	29.47	34	SSH	1	0	29.23	-12	45	44	+7	NN	1	0	*	46	32	0.22		
Nottingham ...	29.50	36	S	1	0	29.33	-07	48	47	+13	SH	4	0	*	48	34	0.04		
Ardrossan ...	29.30	44	SSH	3	0	29.00	-22	47	45	+12	NN	5	0	5	48	35	0.45		
Greencastle ...	29.25	34	SE	1	0	28.98	-20	40	39	+4	S	1	0	*	43	34	0.19		
Donaghadee ...	29.32	39	SSH	2	0	29.07	-20	43	43	+6	NN	3	0	2	45	26	0.25		
Kingstown ...	29.32	43	SSE	2	0	29.14	-13	51	47	+12	NN	4	0	4	51	?	0.18		
Holyhead ...	29.36	41	S	2	0	29.21	-09	47	47	+6	SE	6	m	4	51	39	0.35		
Liverpool (Midston)	29.42	35	SE	4	0	29.20	-13	47	45	+7	SH	5	0	4	48	25	0.10		
Valencia ...	29.06	48	SE	6	r	29.12	-12	52	50	+9	SSH	8	og	7	55	41	0.40		
Roche's Point ...	29.17	41	SE	5	r	29.23	-05	48	47	+11	SH	5	0	5	59	37	0.47		
Pembroke ...	29.33	46	SE	4	0	29.34	-01	49	49	+4	SH	4	0	4	50	44	0.12		
Portlister ...																			
Seilly ...	29.34	50	SH	6	0	29.45	+11	52	51	+3	SH	7	om	6	52	47	0.25		
Plymouth ...	29.41	47	SSH	2	0	29.48	+08	51	51	+11	SH	4	0	*	54	40	0.19		
Hurst Castle ...	29.45	46	SH	4	0	29.47	+02	48	48	+7	SH	6	om	6	49	41	0.22		
Dover ...	29.58	46	S	5	0	29.50	+10	49	48	+4	NN	6	of	4	49	43	0.08		
London ...	29.52	47	SE	3	r	29.43	00	53	52	+11	SSH	5	og	*	53	39	0.09		
Oxford ...	29.47	44	SSH	1	0	29.42	00	52	51	+14	SH	2	0	*	53	37	0.09		
Cambridge ...	29.46	41	SH	1	0	29.39	+04	51	50	+10	SH	1	0	*	52	37	0.10		
Yarmouth ...	29.57	37	S	2	0	29.38	00	48	47	+7	SSH	4	odw	2	48	35	0.10		
The Helder ...						29.49	+04	43	42	+6	S	3	r	*	*	*	0.12		
Cape Gris Nez ...	2	46	S	5	0	29.53	+12	46	46	+1	SSH	6	r	5	48	43	0.08		
Jersey ...	1.55	47	SH	3	0	29.62	+12	52	52	+8	SH	6	g	?	52	44	0.31		
Brest ...	29.53	50	SSH	4	g	29.65	+28	52	52	+6	SH	5	g	5	52	45	0.24		
L'Orient ...	29.60	48	SH	4	r	29.76	+29	52	52	+4	NN	6	r	6	54	43	0.79		
Rochefort ...	29.76	50	SH	4	r	29.97	+27	54	52	+6	SH	4	r	4	55	39	0.67		
Biarritz ...	29.86	54	S	3	0	30.03	+25	61	54	+16	SSE	3	0	5	63	30	0.04		
Corunna ...															*	*	*		
Brussels ...						29.65	+16	48	46	+2	S	6	0	*	48	44	0.08		
Charleville ...						29.76	+21	45	*	-2	SH	3	or	*	*	*	*		
Paris ...	29.76	46	?	2	0	29.77	+13	52	52	+8	SH	2	r	*	*	*	0.16		
Lyons ...						30.06	+16	54	*	0	S	2	r	*	*	*	*		
Toulon ...	29.99	52	SE	4	z	30.22	+21	50	48	-2	SH	1	0	4	54	46	0.08		
YESTERDAY'S 2 P.M. REPORTS AND REMARKS.																			
	Bar.	Dry.	Wet.	Wind.	Wen.	Sea.		Bar.	Dry.	Wet.	Wind.	Wen.	Sea.						
Skudesnaes ...	29.46	34	33	ESE	6	5	4	Valencia .....											
Thurso .....								Seilly .....											
Scarborough ...								London .....									*		
Greencastle ...							*	Rochefort ...	29.72	50	50	SH	5	0		3			
Holyhead .....																			
Mullaghmore	29.20	44	SE	5	0	28.97	-22	47	45	+7	SH	5	0	4	49	39	0.21		

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

Bar.	Dry.	Wet.	Wind.	Wes.	Sea.		Bar.	Dry.	Wet.	Wind.	Wes.	Sea.
Skudesnaes ...	29.46	34	38	ESE	6	5	Valencia .....					
Thurso .....							Seilly .....					
Scarborough ...							London .....					
Greencastle ...							Rochefort ...	29.72	50	50	SH	5
Holyhead .....												

Mullaghmore 29.20 44 SE 5 0 28.97 -22 47 45 +7 SH 5 0 4 49 39 0.21

## 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.

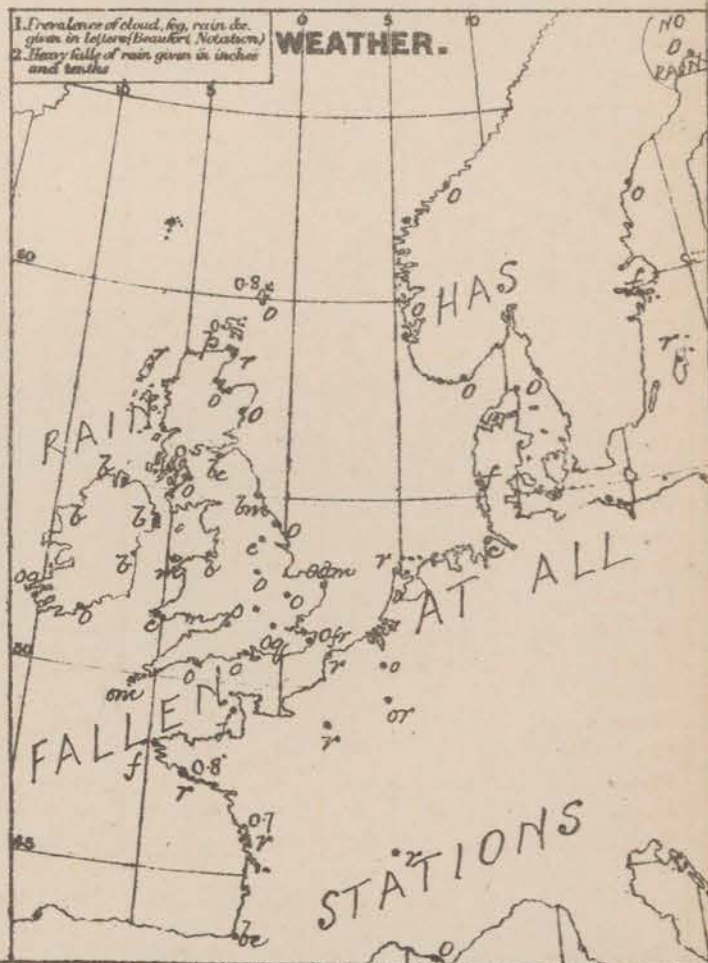
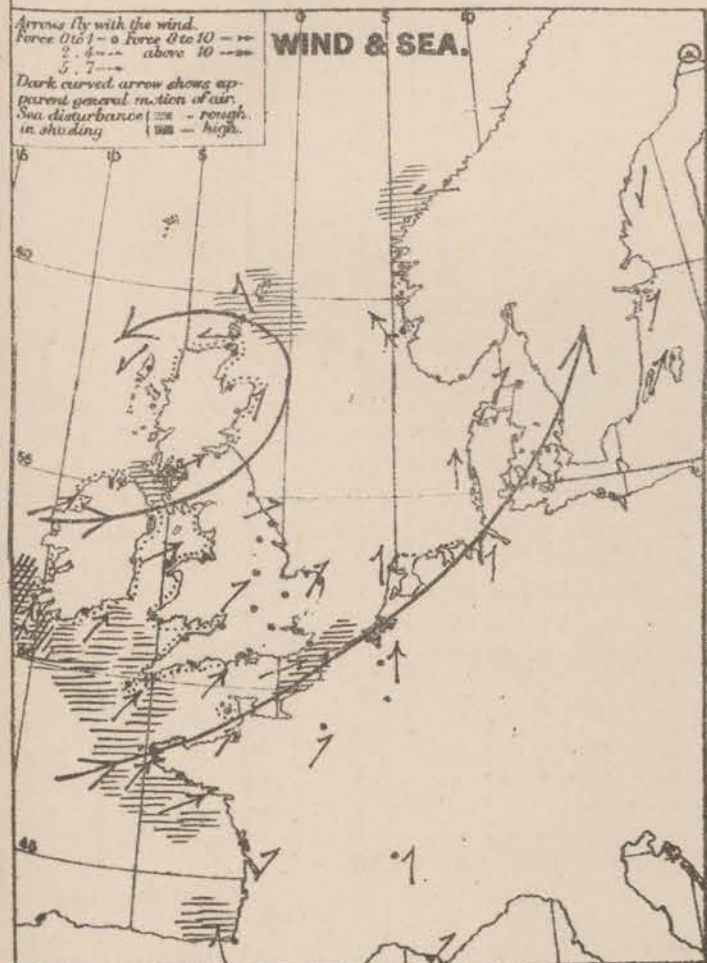
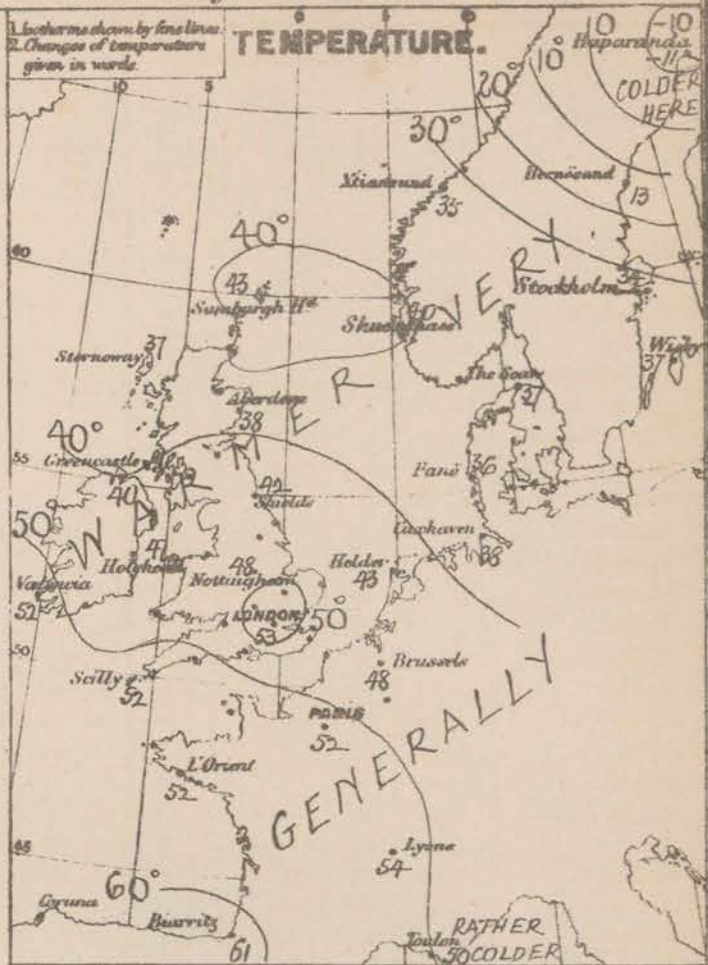
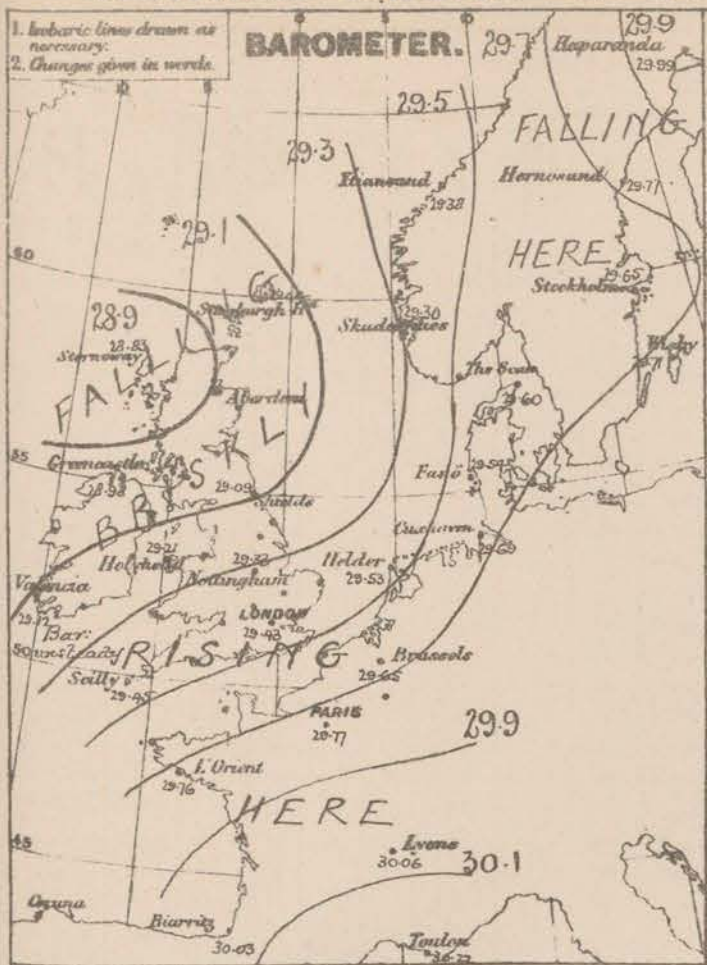
\* AN ASTERISK is inserted in all places for which information is not usually received.

† 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 run, and to "back" when it shifts in the opposite direction.



WEATHER CHARTS *for 8 a.m. on Mon-day 30. DEC<sup>R</sup> 1878*



A dotted line is drawn round the coast, where the signals are wanted.

**REMARKS.** Weather has become very unsettled and changeable over the whole of NW<sup>e</sup> Europe. In most places the sky is overcast or very cloudy and rain is falling at some stations, notably in the N. of Scotland. On our NW<sup>e</sup> coasts, however, a temporary clearance is reported. Rain has fallen at all stations, and at some places the fall has been heavy. Temperature has risen everywhere. Over our S<sup>e</sup> and SW<sup>e</sup> coasts the barom. readings vary from 30<sup>o</sup> to 30<sup>o</sup>, and even in Scotland the thermometer has now risen to about 37<sup>o</sup>, while in the Netherlands it stands at 42<sup>o</sup>. Wind is SW<sup>e</sup> at all but our most N<sup>e</sup> stations, and blows rather strongly on the Irish and English coasts, as well as in the N. of France. In the N. of Scotland there is at present a moderate breeze from the E<sup>se</sup> to fresh SE gales was felt in the W<sup>e</sup> and SW<sup>e</sup> parts of our Islands during the night. Sea is high at Valentia, rough in the Channel, rather as in the Bay of Biscay, and at Liverpool Head, moderate elsewhere.

Barometrical Indications. Readings now vary from 30.2 in. in the S. of France, and 30.0 in. at Caparanda to 29.8 in. over the W. of Scotland. To the latter locality a rather deep depression has advanced during the night, and although the morning is now apparently bringing Ireland the wind at Valentia is inclined to back to the SE.

Warnings. The South Sea was disturbed in the SW and W on Saturday, and in the NW and N. last evening.

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.  
SECRET

SATURDAY



# DAILY WEATHER REPORT

DEC 31<sup>st</sup>

1878.

STATIONS.	† YESTERDAY EVENING.					8 A.M. TO DAY.										PAST 24 HOURS.		
	Barometer at 350 ft. 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 ft. 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 ...	29.55	21	X	0	S	29.21	-.78	32	32	+ .43	SE	4	S	*	32	-11	0.16	
Hernösand ...	29.37	19	N	2	S	28.94	-.83	33	33	+ .20	SE	2	O	*	*	*	0.28	
Stockholm ...	29.37	36	S	6	F	29.17	-.48	37	37	+ .3	SSW	4	O	*	*	*	0.12	
Wisby ...	29.49	39	SW	6	F	29.32	-.39	41	40	+ .4	WSW	8	O	*	*	*	0.24	
Christiansund ...	28.87	36	ESE	3	O	28.73	-.65	34	33	- .1	X	0	O	3	36	28	-	
Skudesnaes ...	28.99	43	SSW	6	O	28.97	-.33	42	42	+ .2	SSW	6	O	5	43	39	-	
Oxö (Ktiansund) ...	29.12	40	SSW	4	O	29.09	-.42	40	39	+ .9	SW	4	8	4	?	?	-	
Skagen (The Seaw) ...	29.25	38	N	6	O	29.17	-.43	40	40	+ .3	WSW	3	O	4	41	32	0.28	
Fanö ...	29.31	40	SSW	4	f	29.31	-.23	42	42	+ .6	SW	4	O	*	43	36	0.20	
Cuxhaven ...	29.32	47	WSW	6	F	29.46	-.23	47	47	+ .9	WSW	3	O	*	?	36	0.29	
Sumburgh Head ...	28.80	39	X	0	O	28.81	-.23	38	36	- .5	NNE	1	O	2	43	36	0.07	
Stornoway ...	28.81	40	SSW	4	F	28.72	-.11	37	37	0	NNE	1	df	1	40	35	0.55	
Thurso ...	28.83	39	SW	2	O	28.79	-.13	37	37	- .1	X	0	ff	3	41	35	0.26	
Wick ...	28.86	40	N	3	O	28.78	-.11	41	41	- .1	E	2	F	0	43	38	0.17	
Nairn ...	28.85	40	WSW	3	O	28.76	-.14	38	37	+ .2	WSW	1	O	1	43	33	0.04	
Aberdeen ...	28.95	42	SSW	3	O	28.83	-.11	41	40	+ .3	SSW	2	O	1	43	37	-	
Leith ...	29.02	45	SW	5	bc	28.86	-.09	49	47	+ .6	SW	7	bc	*	50	34	0.16	
Shields ...	29.17	46	WSW	7	bc	29.06	-.03	48	46	+ .6	SW	5	bc	2	50	41	0.07	
Scarborough ...	29.26	44	SW	3	bc	29.16	-.03	49	48	+ .7	WSW	3	O	2	49	42	-	
York ...	29.28	45	S	1	bc	29.21	-.02	49	46	+ .4	SW	5	bc	*	50	43	-	
Nottingham ...	29.38	49	SSW	3	O	29.34	+ .01	50	48	+ .2	SSW	6	O	*	51	46	0.08	
Ardrossan ...	29.07	47	SW	3	O	28.92	-.08	48	46	+ .1	SW	7	og	5	50	47	0.24	
Greencastle ...	29.02	42	N	2	bc	28.85	-.13	44	44	+ .4	WSW	4	F	*	45	39	0.22	
Donaghadee ...	29.12	46	SW	5	bc	29.07	-.06	48	47	+ .5	SW	6	O	5	48	42	0.02	
Kingstown ...	29.17	52	WSW	5	bc	29.13	-.01	52	48	+ .1	SW	5	bc	4	53	47	0.02	
Holyhead ...	29.23	48	SW	6	bc	29.18	-.03	49	47	+ .2	WSW	6	m	4	52	47	0.01	
Liverpool (Bidston) ...	29.25	49	SW	4	bc	29.19	-.01	50	47	+ .3	SW	6	O	4	51	47	-	
Valencia ...	29.14	53	SSW	8	O	29.21	+ .09	52	49	0	SW	8	ew	7	55	49	0.13	
Roche's Point ...	29.25	49	WSW	6	F	29.28	+ .05	50	49	+ .2	WSW	8	og	5	51	47	0.15	
Pembroke ...	29.36	50	SW	6	bc	29.35	+ .01	50	48	+ .1	N	8	bc	6	51	49	0.01	
Portishead ...																		
Seilly ...	29.50	53	SW	7	O	29.59	+ .14	52	51	0	SW	9	O	7	53	51	0.01	
Plymouth ...	29.53	51	SW	6	O	29.61	+ .13	51	50	0	SW	6	O	7	53	50	0.07	
Hurst Castle ...	29.54	48	WSW	4	O	29.58	+ .11	48	47	0	WSW	7	bc	7	49	46	0.13	
Dover ...	29.59	49	WSW	5	O	29.63	+ .13	48	45	- .1	WSW	6	O	4	50	47	0.20	
London ...	29.53	54	SW	3	or	29.55	+ .12	52	49	- .1	SW	7	bc	*	56	50	0.03	
Oxford ...	29.49	52	SW	4	O	29.47	+ .04	51	49	- .1	S	6	O	*	53	49	-	
Cambridge ...	29.43	51	SW	2	O	29.42	+ .03	54	50	+ .3	SW	4	O	*	56	47	0.03	
Yarmouth ...	29.46	50	SSW	4	O	29.43	+ .05	50	48	+ .2	SW	5	bc	3	53	47	-	
The Helder ...	*	*	*	*	*	29.47	-.02	45	44	+ .2	SSW	4	bc	*	*	*	0.28	
Cape Gris Nez ...	29.61	50	SW	6	F	29.67	+ .14	48	46	+ .2	SW	8	F	6	50	45	0.20	
Jersey ...	29.70	50	N	4	F	29.78	+ .16	51	49	- .1	WSW	6	om	5	54	48	0.30	
Brest ...	29.73	52	WSW	5	m	29.82	+ .17	?	50	?	WSW	5	m	6	55	48	0.28	
L'Orient ...	29.81	54	WSW	6	F	29.92	+ .16	50	50	- .2	WSW	4	m	5	55	46	1.02	
Rochefort ...	30.02	55	SW	5	O	30.09	+ .12	54	52	0	WSW	4	O	3	57	46	0.43	
Biarritz ...	30.12	57	SSW	2	O	30.16	+ .13	59	54	- .2	S	2	bc	5	66	55	-	
Corunna ...	*	*	*	*	*										*	*	*	
Brussels ...	*	*	*	*	*	29.72	+ .07	51	48	+ .3	SW	5	O	*	56	?	0.28	
Charleville ...	*	*	*	*	*	29.82	+ .06	49	*	+ .4	SW	6	O	*	*	*	*	
Paris ...	29.83	57	?	3	O	29.91	+ .14	51	49	- .1	N	3	O	*	*	*	0.43	
Lyons ...	*	*	*	*	*	30.15	+ .09	55	*	+ .1	SW	2	O	*	*	*	*	
Toulon ...	30.27	50	X	0	m	30.28	+ .06	50	50	0	E	3	m	8	55	48	-	

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

	Bar.	Dry.	Wet.	Wind.	Wes.	Sea.		Bar.	Dry.	Wet.	Wind.	Wes.	Sea.		
Skudesnaes ...	29.58	42	41	S	6	ff	5	Valencia ...	29.15	52	49	SSW	7	bc	6
Thurso .....	28.85	38	38	SSW	1	f	3	Seilly .....	29.48	53	51	SW	7	om	6
Scarborough ...	29.25	45	43	WSW	3	bc	2	London .....	29.51	54	53	SSW	4	o	*
Mullaghmore ...	29.01	47	46	SSW	6	bc	5	Rochefort ...	30.01	55	52	SW	5	o	3
Holyhead .....	29.24	49	48	SW	6	m	4								

No important change, except that the depression in the N. seems to be moving slowly to the N.W.

Mullaghmore 29.02 48 SW 6 O 28.91 -.06 49 47 + 2 SW 8 O 6 50 45 0.48

## 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.

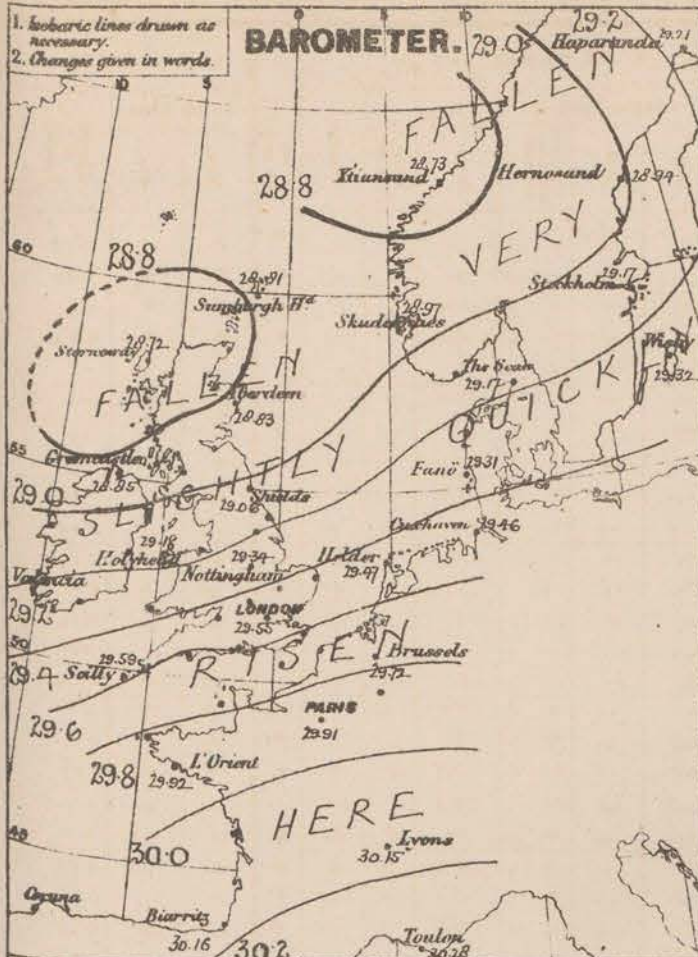
N.B.—The wind is said to "veer" when its direction changes with the sun, and to "back" when it shifts in the opposite direction.



# WEATHER CHARTS for 8 a.m. on Tuesday 31<sup>st</sup> DEC<sup>r</sup> 1878.

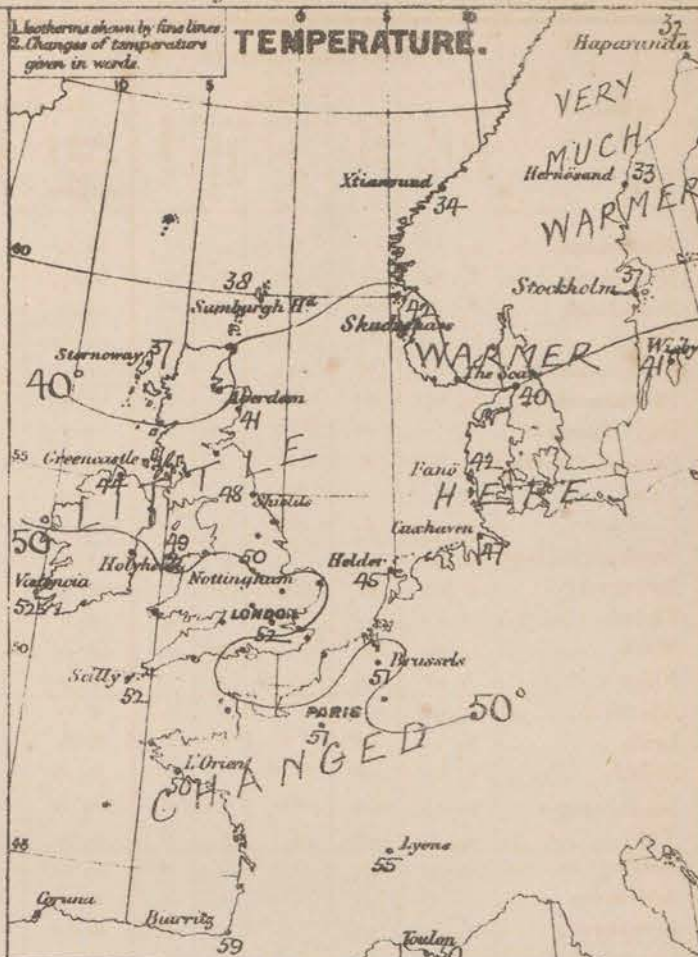
1. Isobaric lines drawn as necessary.
2. Changes given in words.

## BAROMETER.



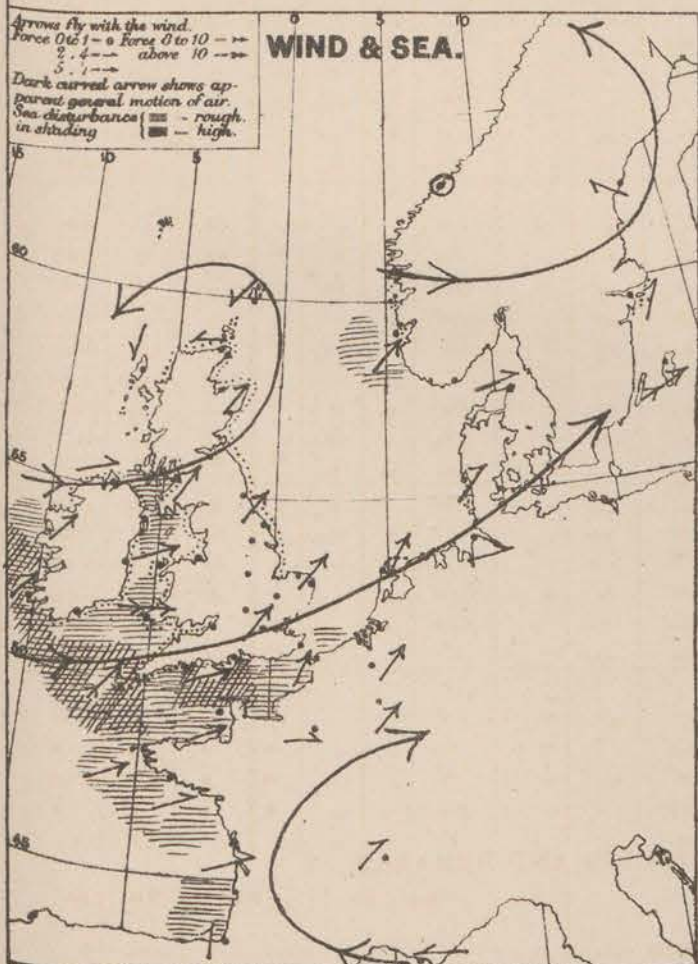
1. Isotherms shown by fine lines.
2. Changes of temperature given in words.

## TEMPERATURE.



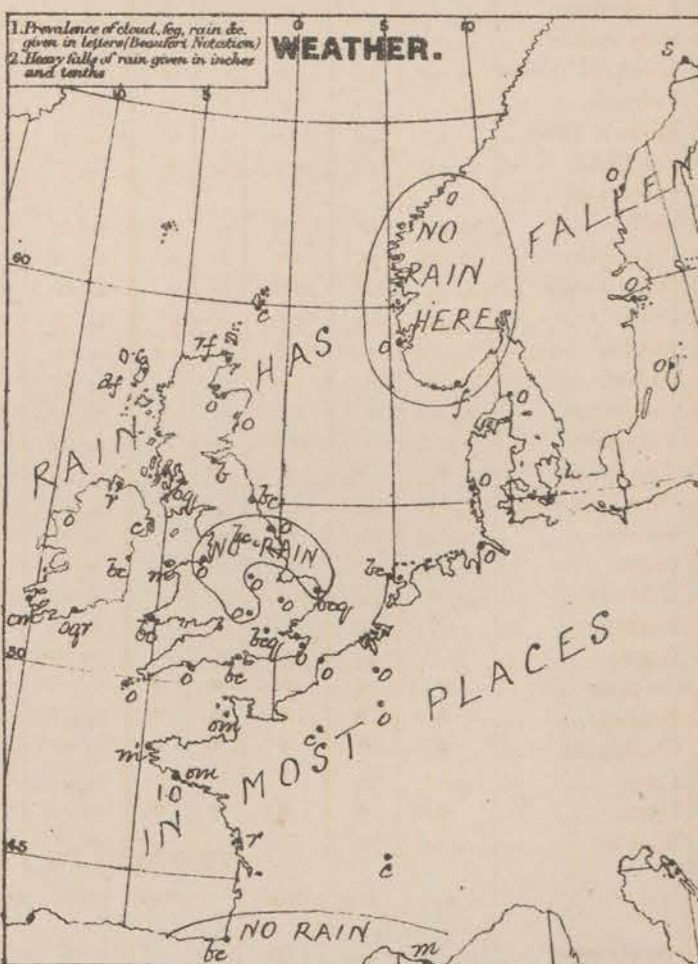
1. Arrows fly with the wind. Force 0 to 10 ———— 11 to 20 ———— 21 to 30 ———— 31 to 40 ———— 41 to 50 ———— 51 to 60 ———— 61 to 70 ———— 71 to 80 ———— 81 to 90 ———— 91 to 100 ————
2. Dark curved arrow shows apparent general motion of air. Sea disturbance ———— rough in shading ———— high.

## 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 cloudy, squally and unsettled in all parts of England, Ireland and the Channel, but is quiet in Scotland. Rain has fallen in nearly all parts of the Kingdom, and lightning has occurred at Cambridge and Roch's Point. Temperature has not changed much over the British Isles, but has risen at the Continental stations. In Sweden the change has been very rapid amounting to 10° at Helsingfors, and 43° at Haparunda. Readings vary from 48° to 52° over our S<sup>e</sup> coasts, and a maximum of 55° was recorded in London yesterday. 66° at Trinity. Winds is N<sup>e</sup> over the whole of Ireland and England, and is strong and equally generally. On our W and SW coasts a fresh to strong gale is reported, such as London the wind reaches the force of a gale in some places. Over the N of Scotland and at thousands of miles and N<sup>e</sup> air is felt. Sea runs high in the S and SW, and is rough in the NW, as well as over the Bay of Biscay, but is slight off our E coasts. Barometrical indications. In the course of the past 24 hours pressure has given way rapidly over Scandinavia, but has risen a little over France and the S of England. Deep depressions lie over the N of Scotland and W of Norway, and steep gradient for N<sup>e</sup> winds are shown over the Channel, England and Ireland. Rainings were reported to our W and SW coasts last evening, and those hinted on our NW and N<sup>e</sup> coasts on Sunday are still in force. Rainings extended to our NE coasts 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.



CORRECTIONS AND ADDITIONS TO THE REPORTS FOR DEC<sup>R</sup> 1878.

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

DATE.	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.	
				Dirco.	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.	Dirco.	Force. (0 to 12).			Max.	Min.		
1 <sup>st</sup>	Jersey	29.98	44.	Z	0	0	29.92	-01	43	41	-1	NW	1	0	1	48	40	0.04	
2 <sup>nd</sup>	Jersey	29.69	42	NNW	3	c	29.92	00	41	41	-2	NNE	3	c	3	47	38	0.40	
3 <sup>rd</sup>	Corunna	*	*	*	*	*	30.09	?	35	*	?	N	6	or	7	*	*	*	
4 <sup>th</sup>	Jersey	30.06	42	NNW	2	b	30.04	+12	41	40	0	NNE	3	o	3	43	40	0.02	
5 <sup>th</sup>	Corunna	*	*	*	*	*	30.15	+06	44	*	+9	NE	3	c	1	*	*	*	
6 <sup>th</sup>	Jersey	30.12	38	NE	3	c	30.24	+20	42	41	+1	NE	3	om	3	42	34	0.00	
7 <sup>th</sup>	Corunna	*	*	*	*	*	30.21	+08	44	*	0	NE	3	er	1	*	*	*	
8 <sup>th</sup>	Jersey	30.28	42	N	2	o	30.23	-01	42	40	0	NNW	2	e	2	44	39	-	
9 <sup>th</sup>	Corunna	*	*	*	*	*	30.41	+20	42	*	-2	NE	3	c	1	*	*	*	
10 <sup>th</sup>	Jersey	30.11	45	NNW	3	b	30.17	-06	38	33	-4	N	3	b	3	47	37	0.01	
11 <sup>th</sup>	Corunna	*	*	*	*	*	30.32	-09	44	*	+2	NW	3	er	1	*	*	*	
12 <sup>th</sup>	Jersey	30.12	40	NW	2	o	29.70	-47	44	42	+6	NNW	3	c	3	44	37	0.15	
13 <sup>th</sup>	Corunna	*	*	*	*	*	30.18	-14	42	*	-2	NW	6	c	1	*	*	*	
14 <sup>th</sup>	Jersey	29.64	40	N	3	o	29.56	-14	38	34	-6	NNW	2	b	2	45	33	0.08	
15 <sup>th</sup>	Jersey	29.52	34	N	1	c	29.71	+15	32	32	-6	NNE	2	s	2	38	32	0.08	
16 <sup>th</sup>	Corunna	*	*	*	*	*	29.90	-04	47	*	0	NE	6	c	5	*	*	*	
17 <sup>th</sup>	Jersey	29.70	37	N	1	b	29.78	+07	34	33	+2	E	2	c	2	41	32	0.26	
18 <sup>th</sup>	Corunna	*	*	*	*	*	29.75	-15	46	*	-1	N	9	er	7	*	*	*	
19 <sup>th</sup>	Jersey	29.81	34	E	2	c	29.87	+09	30	28	-4	ENE	1	c	1	38	27	-	
20 <sup>th</sup>	Corunna	*	*	*	*	*	29.95	+20	45	*	-1	NW	6	er	5	*	*	*	
21 <sup>st</sup>	Jersey	29.89	32	Z	0	s	29.85	-02	33	33	+3	N	2	c	2	36	30	0.23	
22 <sup>nd</sup>	Corunna	*	*	*	*	*	29.74	-21	44	*	-1	SW	6	er	1	*	*	*	
23 <sup>rd</sup>	Jersey	29.70	35	SW	2	b	29.64	-21	30	29	-3	E	2	b	2	36	28	0.02	
24 <sup>th</sup>	Corunna	*	*	*	*	*	29.81	+07	41	*	-3	SW	3	c	1	*	*	*	
25 <sup>th</sup>	Jersey	29.64	33	ESE	3	o	29.46	-18	36	36	+6	SSE	3	o	3	36	30	0.04	
26 <sup>th</sup>	Corunna	*	*	*	*	*	29.77	-04	44	*	+3	SW	6	er	1	*	*	*	
27 <sup>th</sup>	Jersey	29.56	35	E	2	o	29.86	+40	38	35	+2	NW	2	c	2	38	34	0.01	
28 <sup>th</sup>	Faro	29.51	26	SSE	4	f	29.47	+06	35	34	+3	S	4	c	*	36	25	0.04	
29 <sup>th</sup>	Jersey	29.78	43	N	5	b	29.52	-36	40	39	+2	S	3	o	4	45	34	0.24	
30 <sup>th</sup>	Corunna	*	*	*	*	*	29.84	-30	49	*	+1	S	6	er	5	*	*	*	
31 <sup>st</sup>	Brussels	*	*	*	*	*	29.46	-20	28	28	-5	WNW	1	f	*	?	?	0.04	
32 <sup>nd</sup>	Cuxhaven	29.48	32	S	1	o	29.54	?	32	32	-3	WSW	4	o	*	34	27	-	
33 <sup>rd</sup>	Corunna	*	*	*	*	*	30.05	?	45	*	?	NE	3	c	5	*	*	*	
34 <sup>th</sup>	Maparanda	29.47	3	Z	0	o	29.53	+20	8	8	1	Z	0	c	*	9	3	-	
35 <sup>th</sup>	Hernandez	29.49	-10	Z	0	m	29.52	+11	-2	?	-3	Z	0	o	*	*	*	-	
36 <sup>th</sup>	Stockholm	29.34	30	SE	1	m	29.30	-10	27	27	+14	Z	0	o	*	*	*	0.20	
37 <sup>th</sup>	Wibby	29.47	?	SSE	2	?	29.34	-11	26	26	-1	SSW	4	s	*	*	*	0.26	
38 <sup>th</sup>	Christiansund	29.39	30	SE	2	s	29.50	+22	38	32	+5	N	4	c	4	34	21	0.38	
39 <sup>th</sup>	Rudensnes	29.35	22	NE	2	b	29.50	+29	22	21	0	N	2	b	2	23	21	-	
40 <sup>th</sup>	Oss	29.26	24	NNW	4	b	29.43	+28	24	23	0	WNW	1	b	2	25	19	0.24	
41 <sup>st</sup>	Faro	29.36	31	N	4	b	29.49	+24	29	28	-6	N	2	b	*	36	28	0.04	
42 <sup>nd</sup>	Corunna	*	*	*	*	*	29.89	-04	52	*	+4	SW	3	or	1	*	*	*	
43 <sup>rd</sup>	Corunna	*	*	*	*	*	29.82	-07	54	*	+2	SW	6	er	1	*	*	*	
44 <sup>th</sup>	Maparanda	29.68	3	Z	0	b	29.71	+06	13	13	-5	Z	0	c	*	21	0	0.16	
45 <sup>th</sup>	Hernandez	29.77	-2	Z	0	b	29.79	+03	-11	-11	-22	Z	0	b	*	*	*	-	
46 <sup>th</sup>	Stockholm	29.58	32	SSW	6	o	29.88	+38	14	14	-7	N	4	b	*	*	*	0.04	
47 <sup>th</sup>	Wibby	29.80	35	SSW	8	o	29.88	-08	28	27	-1	NW	6	o	*	*	*	-	
48 <sup>th</sup>	Christiansund	29.61	27	N	5	c	29.66	-05	28	26	+4	WSW	6	c	5	28	21	0.24	
49 <sup>th</sup>	Rudensnes	29.89	22	NW	2	b	29.81	+15	30	28	-7	E	6	c	3	39	?	-	
50 <sup>th</sup>	Oss	29.86	30	NNW	2	b	29.86	+06	25	24	-13	NNW	4	c	3	30	18	-	
51 <sup>st</sup>	Corunna	*	*	*	*	*	29.62	-05	52	*	-2	?	3	c	2	*	*	*	
52 <sup>nd</sup>	Corunna	*	*	*	*	*	29.91	+29	52	*	0	SW	6	er	7	*	*	*	
53 <sup>rd</sup>	Corunna	*	*	*	*	*	29.56	-35	54	*	+2	S	9	c	7	*	*	*	
54 <sup>th</sup>	Corunna	*	*	*	*	*	30.02	+24	58	*	+3	SW	9	c	7	*	*	*	
55 <sup>th</sup>	Corunna	*	*	*	*	*	29.89	-13	58	*	0	SW	6	er	7	*	*	*	



1. REPORTS RECEIVED TOO LATE FOR INSERTION DAILY. (continued)

[illegible]