



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

Drawn by J. H. Stoddard, Lith. London

METEOROLOGICAL OFFICE.

DAILY WEATHER REPORTS.

1ST JULY—31ST DECEMBER,

1877.

DAILY WEATHER REPORT DEC 15th 1877.

STATIONS.	† YESTERDAY EVENING.						8 A.M. TO DAY.										PAST 24 HOURS.		
	Barometer at 32° F. and Sea Level.	Temp. in shade.	WIND.		Force. (0 to 12).	Weather.	Barometer.		SHADE TEMP.			WIND.		Force. (0 to 12).	Weather.	Sea. (0 to 2).	SHADE TEMP.		Amount of Rainfall.
			Dir.	Force.			Reading at 8 A.M. and Sea Level.	Difference from 8 A.M. yesterday.	Dry.	Wet.	Difference from 8 A.M. yesterday.	Dir.	Force.				Max.	Min.	
Haparanda ...	30.00	29	SW	2	0		30.21	+ .61	28	28	- 2	SW	2	0	*		30	25	-
Hernösand ...	29.91	38	S	2	2		29.97	+ .27	37	36	+ 4	ESE	6	7	*		*	*	0.16
Stockholm ...	29.65	41	SE	6	0		29.68	+ .04	39	38	- 1	SE	4	*	*		*	*	-
Wisby ...	29.66	38	SE	8	0		29.68	+ .08	39	38	+ 1	S	4	0	*	*	*	*	0.08
Christiansund ...	29.42	43	ESE	3	20		29.39	+ .06	43	38	+ 5	ESE	2	0	2	43	37	-	
Skudesnaes ...	29.28	45	ESE	6	0		29.38	- .10	44	40	0	ESE	6	60	4	7	7	-	
Oxö (Kriensand) ...	29.34	44	ESE	4	0		29.44	+ .16	43	42	- 1	ESE	4	0	3	45	37	-	
Skagen (The Seaw) ...	29.44	41	SSE	4	7		29.52	+ .14	43	42	- 1	SSE	4	0	4	45	37	0.25	
Fanö ...	29.31	37	S	4	8		29.44	+ .15	37	37	0	SSE	6	0	*	41	36	-	
Cuxhaven ...	29.32	2	S	2	0		29.45	+ .13	37	37	- 2	S	2	0	*	41	36	-	
Sumburgh Head																			
Sternaoway	28.93	37	E	1	8		29.29	+ .49	41	40	+ 9	NE	2	8	4	43	30	0.02	
Thurso ...	28.97	41	ESE	1	7		29.22	+ .38	45	43	+ 11	ESE	4	80	4	45	33	0.31	
Wick ...	28.97	44	S	3	30		29.24	+ .36	45	41	+ 3	NE	4	0	6	46	35	0.20	
Nairn ...	28.93	35	Z	0	8		29.17	+ .34	43	41	+ 10	NE	5	0	3	43	33	0.15	
Aberdeen ...	28.91	43	SE	3	8		29.08	+ .21	42	41	+ 1	N	3	7	3	44	40	0.56	
Leith ...	28.87	39	SE	3	0		29.10	+ .27	42	41	+ 5	NN	1	0	*	43	36	0.23	
Shields ...	28.82	40	Z	0	0		29.08	+ .18	40	38	+ 4	N	1	0	2	41	35	0.03	
Scarborough ...	28.89	40	SSE	2	20		29.12	+ .16	40	39	+ 3	SW	1	0	2	41	37	0.05	
York ...	28.92	40	SW	4	0		29.15	+ .21	38	38	+ 2	SW	1	80	*	42	35	0.07	
Nottingham ...	29.02	42	SW	4	8		29.19	+ .22	38	37	- 1	ESE	1	7	*	44	36	0.03	
Ardrossan ...	28.83	39	NE	2	0		29.13	+ .41	42	40	0	NN	1	80	0	43	39	0.20	
Greencastle ...	28.84	40	N	1	0		29.18	+ .50	44	41	+ 1	N	2	0	*	45	37	0.05	
Donaghadee ...	28.87	41	NNN	3	80		29.18	+ .42	42	41	+ 2	NNN	4	80	2	43	38	0.03	
Kingstown ...	28.97	44	NNN	6	80		29.24	+ .33	42	40	- 2	NNN	4	80	4	47	40	0.02	
Holyhead ...	28.94	46	N	9	8		29.18	+ .33	46	43	+ 1	NN	5	0	5	47	43	0.18	
Liverpool (Bidston) ...	28.93	40	SW	6	7		29.16	+ .27	42	41	+ 3	NNN	2	0	1	45	39	0.95	
Valencia ...	29.08	46	N	2	70		29.47	+ .21	47	46	- 1	NNN	4	70	4	49	43	0.38	
Roche's Point ...	29.18	44	N	4	0		29.36	+ .22	44	42	- 1	NNN	4	80	4	46	42	0.10	
Pembroke ...	29.11	47	N	6	0		29.26	+ .21	46	43	- 3	NN	4	80	3	49	45	0.03	
Portishead ...	29.10	44	NNN	4	0		29.20	+ .15	41	41	- 2	NNN	2	80	3	49	38	0.16	
Seilly ...																			
Plimouth ...	29.23	44	NNN	2	0		29.25	+ .09	40	40	- 4	NN	2	80	*	49	40	0.13	
Hurst Castle ...	29.17	49	NNN	4	8		29.18	+ .09	42	42	- 3	NE	2	0	2	50	40	0.45	
Dover ...	29.21	45	NNN	4	8		29.23	+ .15	47	45	+ 1	SSN	5	0	4	48	42	0.17	
London ...	29.16	45	N	2	80		29.19	+ .16	42	41	+ 1	S	1	0	4	48	39	0.06	
Oxford ...	*	*	*	*	*		29.22	+ .19	36	36	- 9	Z	0	80	*	48	34	-	
Cambridge ...	29.11	40	SW	2	8		29.23	?	35	35	- 5	S	1	80	*	45	34	0.07	
Yarmouth ...	29.10	43	SSN	1	0		29.22	+ .17	43	43	0	SSN	1	0	3	44	38	0.16	
The Helder ...	*	*	*	*	*		29.32	+ .13	38	35	+ 1	SSE	1	80	*	*	*	0.08	
Cape Gris Nez	29.20	50	N	6	0		29.26	+ .16	41	40	- 2	S	2	0	2	50	39	0.28	
Jersey ...	29.34	46	N	6	0		29.19	- .04	46	46	- 4	N	2	7	2	53	45	0.53	
Brest ...	29.33	52	NNN	4	7		29.30	- .04	46	43	- 4	N	4	7	5	54	41	0.39	
L'Orient ...	29.48	46	NN	6	0		29.29	- .12	48	45	- 2	NN	5	7	5	52	39	0.59	
Rochefort ...	29.62	42	NN	5	0		29.42	- .08	50	48	0	NNN	6	0	7	59	43	0.55	
Biarritz ...	29.80	54	NNN	7	6		29.60	- .08	50	48	0	SSN	5	6	5	59	43	2.05	
Corunna ...	*	*	*	*	*				*	*	*	*	*	*	*	*	*	*	*
Brussels ...	*	*	*	*	*		29.36	+ .12	42	*	+ 4	S	6	0	*	*	*	0.01	
Charleville ...	*	*	*	*	*		29.35	+ .08	41	*	+ 1	S	6	0	*	*	*	*	
Paris ...	29.41	44	SW	3	8		29.30	- .02	42	41	+ 1	SE	3	7	*	*	*	0.04	
Lyons ...	*	*	*	*	*		?	?	46	*	- 3	S	4	7	*	*	*	*	
Toulon ...	29.62	?	NN	7	8		29.67	+ .11	45	39	0	NN	2	8	4	50	41	-	

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

	Bar.	Dry.	Wet.	Wind.	Wes.	Sea.		Bar.	Dry.	Wet.	Wind.	Wes.	Sea.
Skudesnaes ...	29.27	45	41	ESE	4	80	Valencia ...	29.19	47	44	N	5	0
Thurso ...	28.93	42	41	ESE	2	80	Seilly ...						
Scarborough ...	28.90	39	38	SSE	2	0	London ...	29.13	47	45	NNN	3	80
Greencastle ...	28.80	43	41	NN	2	0	Rochefort ...	29.59	50	45	NN	8	80
Holyhead ...	28.93	47	42	N	9	7							

Pressure is decreasing at Valencia, but increasing elsewhere, and the depression near Greenhead this morning is apparently passing across. Wind has risen to a hard gale at Holyhead.

EXPLANATION OF COLUMNS.

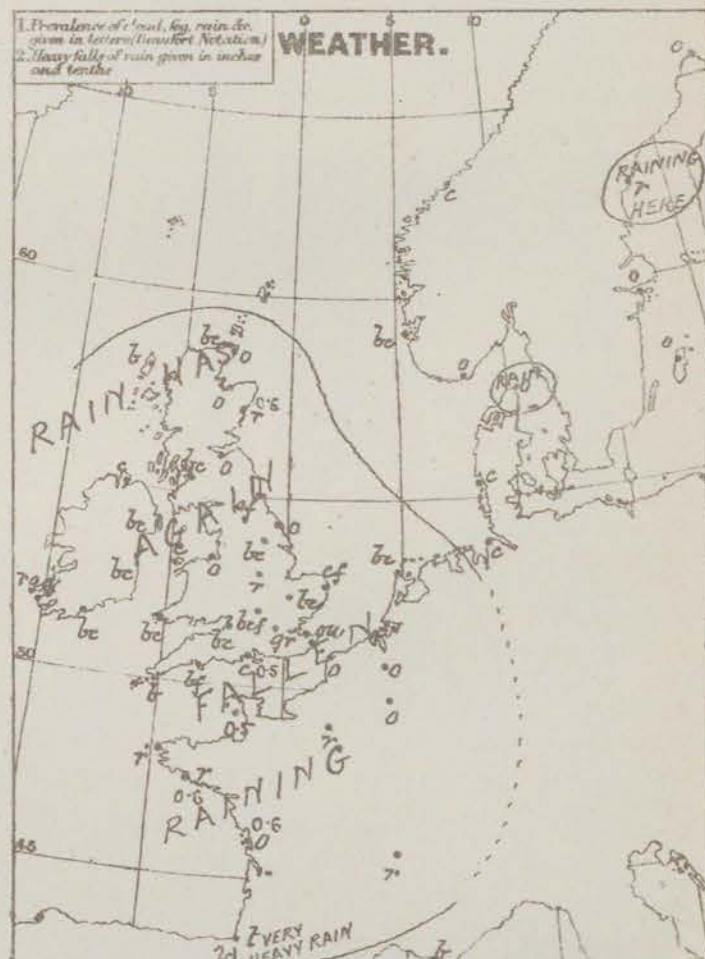
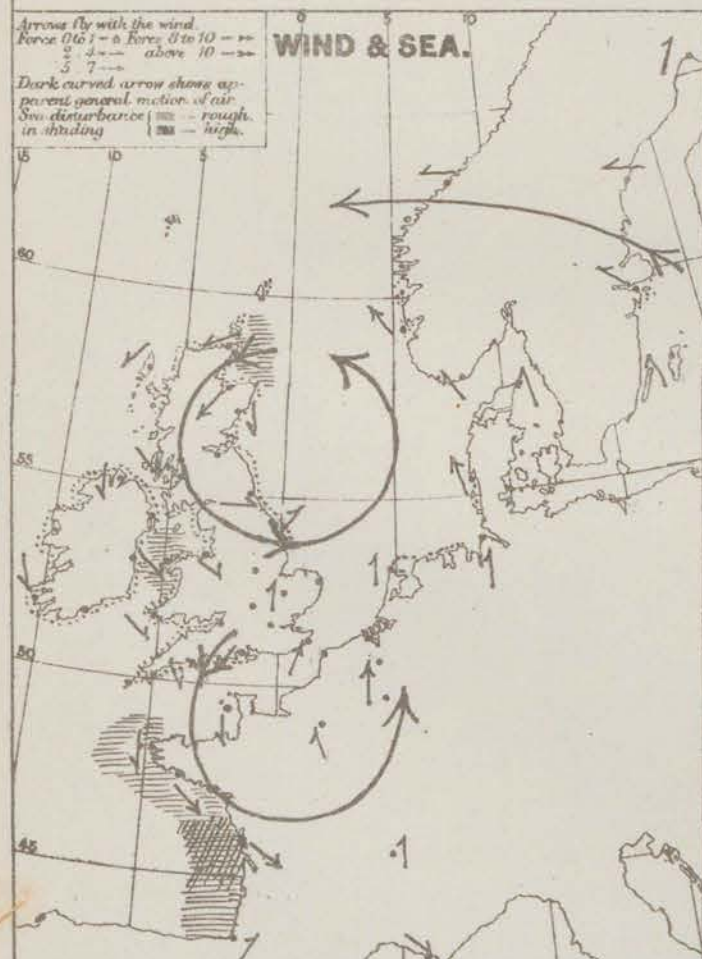
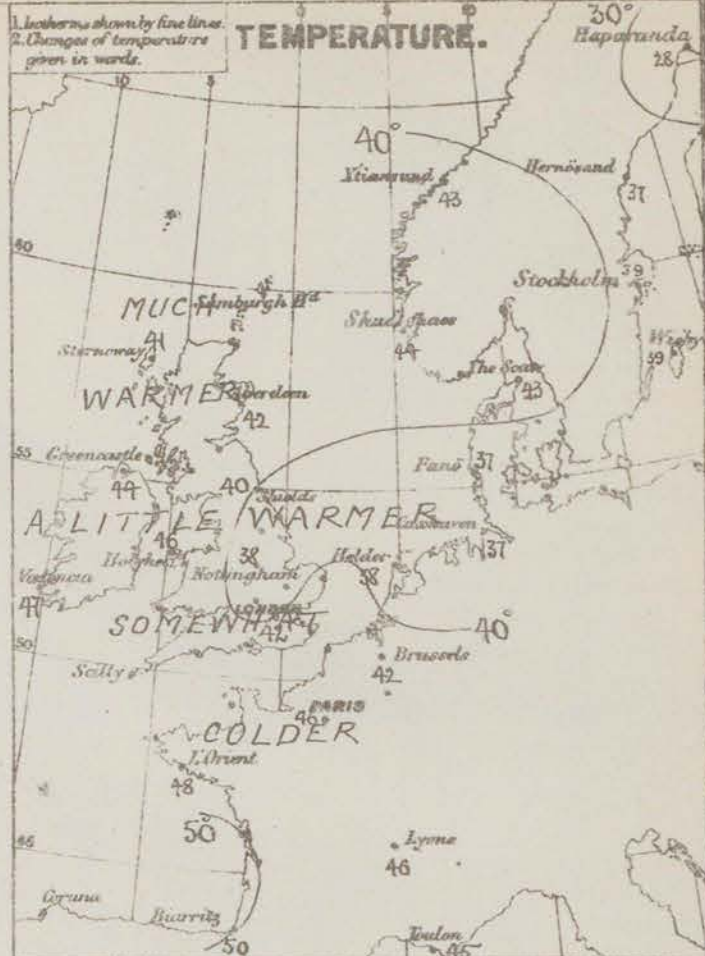
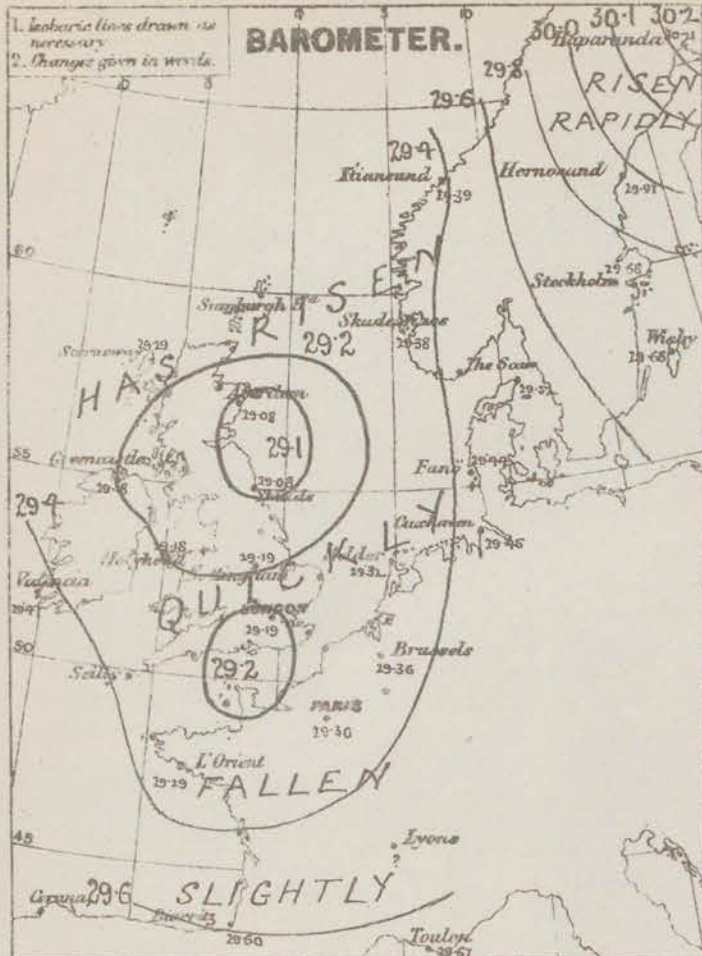
WEATHER.—Beaufort Scale is, b. blue sky; c. detached clouds; d. drizzling rain; f. fog; g. dark, gloomy; h. hail; l. lightning; m. misty (hazy); o. overcast; p. passing showers; q. squally; r. rain; s. snow; t. thunder; u. ugly, threatening; v. visibility, unusual transparency; w. dew.

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

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

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

WEATHER CHARTS for 8 a.m. on Saturday DEC: 1st 1877.



REMARKS. Weather is very gloomy over England and France, and is wet at several of the S. stations, as well as at Valentia, but at most of the W. and N. ports it has cleared up considerably. Rain has again fallen in nearly all parts of N. Europe, but as a rule the amounts measured are not very large in our Islands. At Berrig, however, more than two inches fell, at Roskoff, Corsica and Jersey more than half an inch. Thunderstorms have occurred at Berrig and Jersey. Temperature is falling at the S. stations, but rising fast in the N. It now stands at 50° in the S.W. of France, 47° at Valentia and 41° to 45° in Scotland, while over Central England it is as low as 35° to 38°. Wind is moderate from N. to N.W. in the W. of our Islands, fresh to strong from N.W. in the Bay of Biscay, and from S. to S.E. over the North Sea, while in the N. of Scotland it is moderate from N.E. A strong W. gale was felt between Holyhead and Skagway yesterday afternoon. Sea is rough off the N.E. of Scotland, and also in the Bay of Biscay, and off the coast of Dover, moderate to slight elsewhere. Barometrical Indications. Two depressions now lie over our neighbourhood, one off our N.E. coast, and the other over the Channel. The barometer is rising very quickly in the W. and N. so that gradually from N. and N.E. winds are being formed there, and seems likely to spread over the remainder of the Kingdom. The N. coast was visited, so our N. and N.E. coasts last evening.

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

R. H. SCOTT.
Secretary.

SUMMARY OF WEATHER IN WESTERN EUROPE

from NOV^r 25th to DEC^r 1st 1877.

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

On Sunday pressure was highest off the N. of Spain, and lowest over Central Europe, so that N^w-winds accompanied by fine though rather cool weather was experienced generally. By the next day, however, these conditions had given way, the highest pressures were reported from France, and the barometer had fallen very quickly in the N^w, so that S^w-winds with rain and dull weather were again established. From that time until nearly the close of the week these general conditions continued, further falls of the barometer occurring in the N^w, and fresh to strong winds between S^w and N. with dull unsettled weather being reported, but on Saturday a large area of low pressure which had advanced over us from the N^w travelled away in a S^e direction, and the wind once more became N^w over the greater part of these Islands. On the 1st Dec also pressure rose rapidly in the N. of Sweden, but the effect of this increase, was not as yet felt in the British Isles. No severe gale has been experienced during this week and temperature has not varied much from the normal.

NOV^r 25th The disturbance which passed up the Channel on the 24th, had advanced E^w to Germany, and a large area of low readings 29.3 ins. was shown extending over Scandinavia, Denmark and Central Europe. Over these Islands and France the barometer was rising, and the highest pressures (30.1 ins.) lay off the N. coast of Spain. Wind was E^w over the Netherlands, but N^w to N^{ne} in most other places. Over the Channel and at most of the French stations the wind was strong in force, but on our coasts it was generally light. Temperature had fallen several degrees over the S^w of England and N^w of France, and to a less extent over the greater part of the Continent, but at most of our stations a slight rise was reported. Sleet was reported at Charleville, and the sky was overcast in Sweden, but elsewhere the weather was fine. Later Reports showed the barometer rising in all parts of N^w Europe, with N^w breezes and fine weather.

NOV^r 26th Pressure had increased very quickly over France, and briskly at all the more E^w stations, while it had fallen rapidly during the night in the N. An area of low pressure lay over Central France, and areas of low readings, one off our N^w coasts, another over the Baltic (29.5 ins.). Wind varied considerably, it drew from S. and S^e. over the Bay of Biscay into S^w and N. over our S^w coasts, and the North Sea, while at Valencia it was S^e, and in the N^w, S^w to S^{ne}. It was strong at Valencia and Coruna light or moderate elsewhere. Temperature had fallen fast over Central and S^w France (where it was low) while over the greater part of these Islands it had risen. Weather was dull with rain in the N. fog in the E. In the course of the day the barometer fell briskly in the N. and a small depression subsidiary to the larger one in the N^w advanced over Ireland, occasioning strong winds in the S^w.

NOV^r 27th The barometer had fallen over the whole of N^w Europe, while it had risen somewhat in Lapland. A deep depression (28.80 ins.) lay off the N. coast of Scotland, and a slight recovery was in progress at Valencia. Regions of comparatively high pressure were reported from the S. of France (29.94 ins.) and the N. of Sweden (29.81 ins.). Wind was N^w to S^{ne} over the British Isles, and France, but drew into S. and S^e. on the eastern shores of the North Sea and at Sumburgh Heads. In the latter district as well as over the Bay of Biscay it was strong to a gale but on our coasts was light or moderate. Temperature had fallen in the N. and N. risen briskly in the E. Weather was fine at many of our NE^w and N^w stations, but cloudy, foggy or wet generally. In the evening the barometer was falling at all but our extreme NE^w stations, and a small depression which had travelled very quickly from N. or S^w lay over Hampshire.

NOV^r 28th The barometer was falling everywhere. A depression (28.7 ins.) lay off the Hebrides, a second (28.9 ins.) off the S^w of Norway, and a shallow subsidiary one near the S^w corner of the Bay of Biscay. The highest

pressure (29.7 in.) lay over the N.W. of Spain. Wind was N^W or N^WN^W at our own and most of the French stations, S^E₄ to E₄ over Norway and Sweden; it was strong or moderate except in the N. of the United Kingdom, and blew a gale in the Skager Rack. Temperature had fallen except in Denmark, N. Germany and the east of France. Weather was cloudy on the Continent with rain in the S. of Norway, but fine in these islands, except in the extreme N. In the evening a fresh depression was advancing over the S. of Ireland, where the barometer was falling quickly, and the wind had increased to a moderate gale.

NOV^r 29th The depression had advanced N^E_W to Scotland (Ardara 29.57 in.) and the barometer was falling almost everywhere; on the eastern shores of the North Sea, however, the mercury had risen briskly, while in the S. of Ireland a slight recovery had commenced. Wind was N^W₄ in the N., N^W₄ in the S.W., S₄ in the E., and E₄ in the N. It was strong on most coasts and blew a gale in the N.E. of Scotland. Temperature had fallen at the Continental stations, and risen at our own, briskly on the E. coast. Weather was fine in Ireland, dull squally and wet in Great Britain and France. In the evening pressure was increasing except in the N.E., and the wind had fallen lighter. The position of the disturbance was not much changed.

NOV^r 30th The barometer had fallen slightly during the night in the N. of Ireland but was rising in all other places—briskly both in the S.W. and in Sweden; a small area of low readings (28.68 in.) lay off the N. coast of Scotland whence pressure increased to 29.9 in. at Gouva, and to 29.7 in. at Helsingfors. Wind continued N^W₄ to N^W₄ in the N. and S.W., S₄ in the E. and E₄ at Christiansund. It was strong at all the more W. and S.W. stations, but light in the N.E. Temperature had risen in the N., fallen in the E., and changed very little elsewhere. Weather was rather cloudy with rain in the N.W. and hail squalls at Dover. Pressure was decreasing at Valentia, and in the N.E. of England at 6 P.M., but was increasing in the N. and S. The depression from the N.W. appeared to be passing E₄ and a new one was approaching Valentia.

DEC^r 1st Both depressions had apparently travelled S^E_W, the more northern lying off the E. coast of Scotland, the S.W. over the Channel between Southampton and Cherbourg. The barometer was rising except in France, and readings varied from 29.08 in. on our E. coast to 29.47 in. at Valentia, and 30.2 in. in Lapland. Wind was N^W to N^W₄ on our coasts and over the Bay of Biscay, S₄ in the Netherlands, and S^E₄ over the North Sea. It was fresh except over England. Temperature had fallen at the Channel stations, but risen elsewhere—several degrees in N. Scotland. Weather was cloudy or dull with rain and fog at the more S.W. stations. During the day pressure continued to increase, and the depressions which were apparently still moving S^E_W at 6 P.M. were filling up. —

DAILY WEATHER REPORT DEC 2ND 1877.

STATIONS.	† YESTERDAY EVENING.					8 A.M. TO DAY.										PAST 24 HOURS.		
	Barometer at 32° F. and Sea Level.	Temp. in shade.	WIND.		Weather.	BAROMETER.		SHADE TEMP.			WIND.		Weather.	Sea. (0 to 9.)	SHADE TEMP.		Amount of Rainfall.	
			Dir.	Force. (0 to 12).		Reading at 32° F. and Sea Level.	Difference from 8 a.m. yesterday.	Dry.	Wet.	Difference from 8 a.m. yesterday.	Dir.	Force. (0 to 12).			Max.	Min.		
Haparanda ...	30.28	34	Z	0	0	30.31	+ .10	35	35	+ 7	S	4	0	*	?	28	—	
Hernösand ...	30.06	38	ESE	6	r	30.24	+ .27	38	38	+ 1	S	2	f	*	*	*	0.55	
Stockholm ...	29.89	43	SSE	2	r	30.11	+ .43	41	40	+ 2	ENE	2	f	*	*	*	0.04	
Widby ...	29.84	43	SE	4	0	30.02	+ .34	41	40	+ 2	SE	4	0	*	*	*	0.04	
Christiansund ...																		
Skudesnaes ...	29.80	44	ESE	4	c	30.17	+ .79	39	36	— 5	ENE	2	0	3	46	?	—	
Oxö (Xiansand) ...	29.83	44	ESE	4	0	30.12	+ .68	41	39	— 2	NNE	4	c	3	45	39	—	
Skagen (The Seaw) ...	29.89	43	SE	4	0	30.06	+ .54	42	40	— 1	E	6	0	5	45	39	0.04	
Fanö ...	29.79	39	E	4	0	29.93	+ .49	41	41	+ 4	NE	4	r	*	41	36	0.04	
Cuxhaven ...	29.59	41	SE	2	c	29.88	+ .43	42	42	+ 5	NNE	3	0	*	?	34	0.04	
Sumburgh Head ...	29.65	45	NE	3	0	30.10		42	41		Z	0	0	2	46	37	—	
Stornoway ...	29.68	41	NNW	1	0	30.08	+ .79	32	31	— 9	NNW	1	c	3	45	29	—	
Thurso ...	29.63	46	ENE	4	0	30.10	+ .88	32	32	— 13	Z	0	f	3	48	32	0.03	
Wick ...	29.60	45	ENE	2	0	30.12	+ .88	31	30	— 14	N	2	0	2	45	31	0.05	
Nairn ...	29.62	43	NE	4	r	30.10	+ .93	43	38	0	Z	0	c	1	44	39	0.27	
Aberdeen ...	29.56	43	NE	2	0	30.11	+ 1.03	38	38	— 4	Z	0	m	2	45	38	0.07	
Leith ...	29.53	44	NNE	2	0	30.08	+ .98	45	45	+ 3	ENE	3	0	*	46	41	0.03	
Shields ...	29.45	43	NNW	2	0	30.07	+ .99	46	44	+ 6	E	1	0	4	46	39	—	
Scarborough ...	29.43	41	Z	0	0	30.08	+ .96	46	44	+ 6	ENE	3	0	3	46	40	—	
York ...	29.50	41	NNW	1	0	30.06	+ .91	39	39	+ 1	NNE	1	0	*	44	34	0.02	
Nottingham ...	29.49	42	SSE	1	c	30.01	+ .82	43	42	+ 5	NE	3	c	*	44	37	0.02	
Ardrossan ...	29.56	46	NNE	2	0	30.08	+ .95	41	39	— 1	Z	0	cm	0	47	39	—	
Greencastle ...	29.58	46	N	3	0	30.07	+ .89	36	36	— 8	E	1	0	*	48	36	0.14	
Donaghadee ...	29.58	47	N	6	0	30.09	+ .91	46	44	+ 4	NE	4	0	3	47	41	0.03	
Kingstown ...	29.64	46	NNW	4	c	30.08	+ .84	41	40	— 1	? NE	4	c	4	47	40	—	
Holyhead ...	29.53	49	NW	5	0	30.02	+ .84	46	44	0	NNE	4	0	4	50	45	—	
Liverpool (Bidston) ...	29.51	44	NW	2	c	30.03	+ .87	42	41	0	NNE	2	0	1	45	39	0.02	
Valencia ...	29.83	49	N	3	0	30.16	+ .69	48	46	+ 1	N	1	c	2	52	46	0.05	
Roche's Point ...	29.72	48	NNW	5	0	30.09	+ .73	45	43	+ 1	N	3	0	3	50	43	0.09	
Pembroke ...	29.55	48	NNW	5	0	29.99	+ .73	44	43	— 2	NNE	2	0	2	49	44	0.02	
Portishead ...	29.40	43	NNW	3	c	29.94	+ .74	40	39	— 1	NNW	1	0	2	47	38	0.01	
Scilly ...																		
Plymouth ...	29.55	44	NW	2	0	29.93	+ .68	42	41	+ 2	NW	1	0	*	?	40	0.02	
Hurst Castle ...	29.45	42	N	2	0	29.85	+ .67	42	41	0	NE	4	0	4	48	37	—	
Dover ...	29.45	45	Z	0		29.83	+ .60	47	45	0	ENE	4	0	3	48	43	0.98	
London ...	29.47	44	NE	1	c	29.89	+ .70	40	39	— 2	NE	2	0	*	45	39	0.12	
Oxford ...	*	*	*	*	*	29.94	+ .72	37	36	+ 1	Z	0	f	*	45	35	—	
Cambridge ...	29.50	35	NW	1	0	29.94	+ .71	34	34	— 1	N	1	0	*	46	31	—	
Yarmouth ...	29.46	43	SSE	1	r	29.91	+ .69	45	44	+ 2	ENE	4	0	4	45	41	0.04	
The Helder ...	*	*	*	*	*	29.89	+ .57	41	40	+ 3	NE	3	c	*	*	*	—	
Cape Gris Nez ...	29.39	43	E	1	r	29.78	+ .52	43	41	+ 2	ENE	2	c	2	46	41	0.20	
Jersey ...	29.57	47	NNW	5	0	?	?	46	43	0	NNE	6	0	5	50	44	0.07	
Brest ...	29.59	50	N	4	0	29.84	+ .34	45	?	— 1	N	4	r	4	52	43	0.28	
L'Orient ...	29.63	48	NNW	5	c	29.87	+ .58	45	43	— 3	NNW	4	0	3	52	43	0.04	
Rochefort ...	29.58	54	NNW	5	0	29.76	+ .34	46	45	— 4	N	5	0	3	61	45	0.08	
Biarritz ...	29.69	53	W	4	r	29.82	+ .22	45	43	— 5	Z	0	0	4	55	43	1.02	
Corunna ...	*	*	*	*	*			*	*						*	*	*	
Brussels ...	*	*	*	*	*	29.80	+ .44	38	*	— 4	S	6	0	*	*	*	—	
Charleville ...	*	*	*	*	*	29.71	+ .36	41	*	0	E	1	c	*	*	*	*	
Paris ...	29.36	44	SE	3	0	29.72	+ .42	42	41	0	NE	3	0	*	*	*	0.04	
Lyons ...	*	*	*	*	*	29.76	?	51	*	+ 5	NNW	2	r	*	*	*	*	
Toulon ...	29.66	52	SW	3	0	29.67	00	46	43	+ 1	ENE	2	0	4	55	43	—	

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

	Bar.	Dry.	Wet.	Wind.	Wes.	Sea.		Bar.	Dry.	Wet.	Wind.	Wes.	Sea.		
Skudesnaes ...	29.63	46	42	SE	6	0	4	Valencia	29.66	57	48	NNW	3	op	4
Thurso	29.44	46	45	ENE	6	c	4	Scilly							
Scarborough ...	29.29	42	41	Z	0	c	2	London	29.33	47	44	N	1	be	*
Greencastle ...	29.40	48	45	NNW	3	6	*	Rochefort ...	29.43	52	48	NNW	7	0	7
Holyhead	29.35	47	45	NNW	5	c	4								

Both the depressions noticed this morning appear to be moving SEwards. The barometer is rising very fast in the N. and the NE'ly wind has increased to a strong breeze at Thurso, but the NW'ly wind in the N. remains moderate.

EXPLANATION OF COLUMNS.

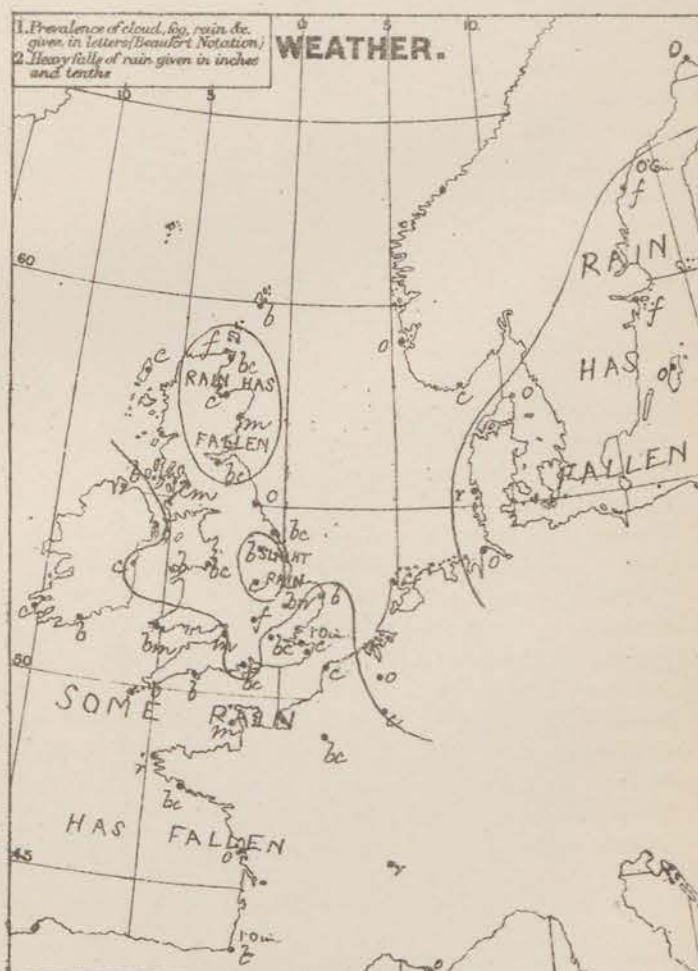
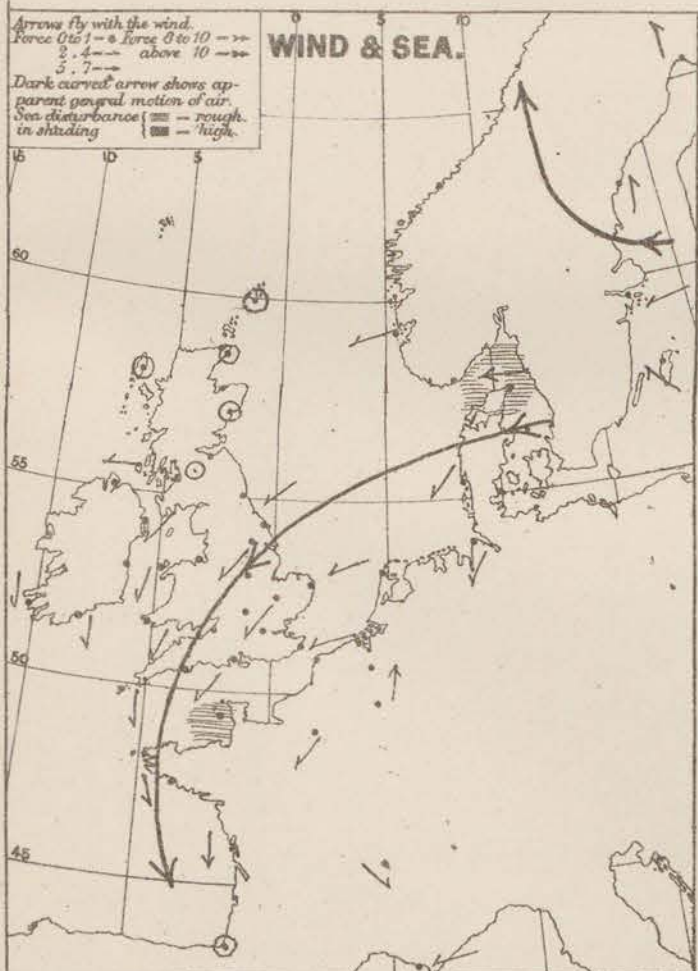
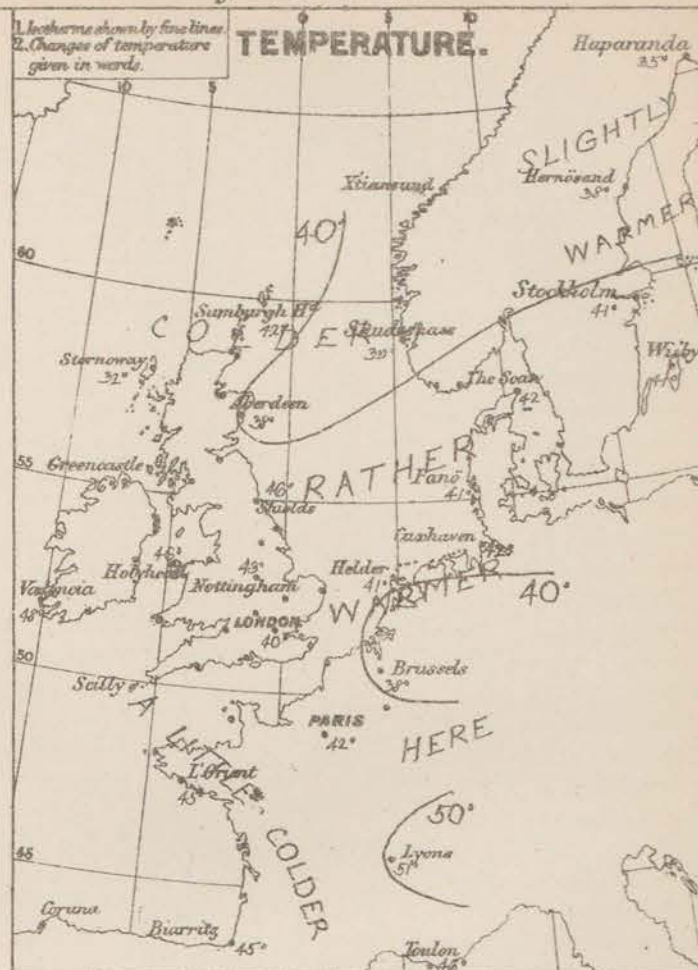
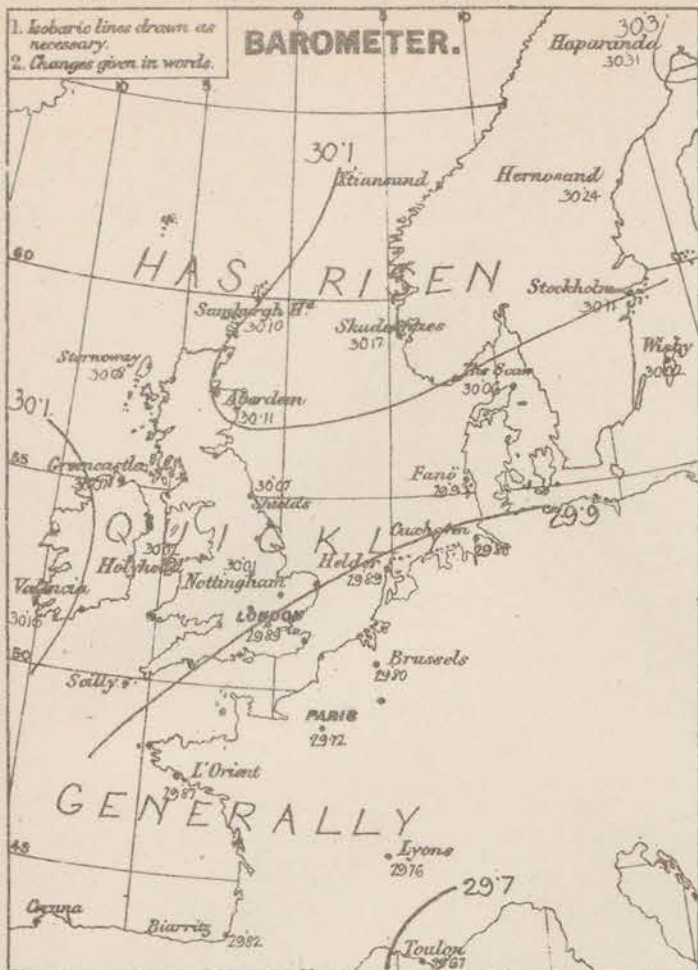
WEATHER.—Beaufort scale is, b. blue sky; c. detached clouds; d. drizzling rain; f. fog; g. dark, gloomy; h. hail; l. lightning; m. misty (hazy); o. overcast; p. passing showers; q. squally; r. rain; s. snow; t. thunder; u. ugly, threatening; v. visibility, unusual transparency; w. dew.

* 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 2ND DEC^R 1877.



REMARKS. Weather is overcast at the Scandinavian stations and also in the south of France, but over the greater part of these Islands the sky is clear or moderately so, with, however, a little mist in some places. A thunderstorm, accompanied by heavy rain, is occurring at Biarritz. A little rain fell yesterday in most places, but at Biarritz more than an inch has been measured this morning. Temperature has fallen several degrees in the extreme north of Scotland, and to a less extent in the west of France; elsewhere the weather is for the most part a little warmer. Readings are about 32° in Caithness and the Hebrides but in other parts of these Islands they vary from 35° to 48° , the last mentioned value being attained at Valentia only. Wind is Sth in the Gulf of Bothnia, but light or moderate NEth breezes are reported from all other parts of Western Europe; in Scotland, however, the winds fall to almost a calm. A strong NWth breeze blew in St. George's Channel last evening. Sea is rather rough at Jersey and the Law, moderate or smooth elsewhere.

Barometrical Indications. The barometer has risen briskly at all stations since yesterday, the increase at our north eastern stations amounting to about an inch in the 24 hours. An area of high pressure extends from Norway across the North Sea to the east of Scotland, while the region of lowest pressure is at present situated over the south of France.

Trainings. The warning signals have been lowered in the west, north and north east this morning.

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

R. H. SCOTT,
Secretary.

DAILY WEATHER REPORT DEC 3RD 1877.

STATIONS.	† YESTERDAY EVENING.						8 A.M. TO DAY.										PAST 24 HOURS.		
	Barometer at 32° F. and Sea Level.	Temp. in shade.	WIND.		Weather.		BAROMETER.		SHADE TEMP.			WIND.		Weather.	Sea (0 to 9.)		SHADE TEMP.		Amount of Rainfall.
			Dir.	Force (0 to 12).			Reading at 32° F. and Sea Level.	Difference from yesterday.	Dry.	Wet.	Difference from yesterday.	Dir.	Force (0 to 12).				Max.	Min.	
Haparanda ...																	*	*	
Hernösand ...																	*	*	
Stockholm ...																	*	*	
Visby ...																	*	*	
Christiansund ...																	*	*	
Skudesnaes ...	30.36	37	NE	2	b		30.43	+ .26	37	34	- 2	ENE	2	o	2		39	37	-
Oslo (Kristiansand) ...	30.33	41	NNE	4	o		30.42	+ .30	39	38	- 2	NE	4	o	2		41	39	-
Skagen (The Sea) ...	30.31	42	NE	4	o		30.38	+ .32	42	40	o	ENE	4	o	4		40	39	0.04
Fanø ...	30.22	43	ENE	4	o		30.27	+ .34	43	42	+ 2	ENE	4	o	*		43	39	-
Cuxhaven ...	30.03	3	ENE	5	t		30.18	+ .30	45	45	+ 3	ENE	5	o	*		?	39	0.06
Sumburgh Head ...	30.28	42	SSE	2	c		30.29	+ .19	45	42	+ 3	S	5	c	4		46	43	-
Stornoway ...	30.21	41	SSW	1	bc		30.23	+ .15	45	43	+ 13	SSW	5	bc	5		45	30	0.01
Thurso ...	30.26	38	S	1	f		30.27	+ .17	45	45	+ 3	S	3	bc	3		40	30	0.02
Wick ...	30.26	44	S	2	b		30.28	+ .16	44	40	+ 11	SE	2	b	2		46	31	0.02
Nairn ...	30.27	35	Z	0	b		30.31	+ .21	43	38	- 10	Z	0	-b	0		?	32	-
Aberdeen ...	30.28	38	Z	0	m		30.34	+ .23	38	37	o	Z	0	m	1		43	33	-
Leith ...	30.29	40	E	2	b		30.36	+ .28	38	38	- 7	Z	0	g	*		48	32	-
Shields ...	30.28	45	ENE	1	b		30.33	+ .26	46	45	o	ENE	1	bc	4		30	43	-
Scarborough ...	30.24	46	ENE	3	o		30.29	+ .21	46	45	o	ENE	3	o	b		47	44	0.03
York ...	30.25	43	NNE	1	o		30.30	+ .24	45	44	+ 6	NE	1	o	*		47	38	-
Nottingham ...	30.23	44	NE	2	o		30.28	+ .27	43	42	o	NNE	3	bc	*		48	41	0.02
Ardrossan ...	30.28	45	NE	1	cm		30.34	+ .26	43	42	- 8	NE	2	bc	1		48	33	-
Greencastle ...	30.23	38	N	5	o		30.27	+ .20	42	41	+ 6	SE	1	o	*		46	35	-
Donaghadee ...	30.29	46	ENE	2	b		30.33	+ .24	43	42	- 3	E	3	c	2		48	42	-
Kingstown ...	30.26	45	NNH	1	o		30.31	+ .23	44	42	+ 3	ESE	3	c	3		46	40	-
Holyhead ...	30.24	44	NNE	2	b		30.30	+ .28	43	42	- 3	ENE	2	o	2		49	39	-
Liverpool (Bidston) ...	30.26	42	NE	1	b		30.33	+ .27	42	41	o	NNE	1	o	1		45	39	-
Valencia ...	30.25	44	Z	0	b		30.26	+ .10	43	42	- 5	SSE	1	o	1		34	38	-
Roche's Point ...	30.23	46	NNE	2	bc		30.28	+ .19	41	40	- 4	NNE	2	o	3		49	38	-
Pembroke ...	30.19	44	NE	2	b		30.27	+ .28	39	38	- 5	NE	1	b	2		48	39	-
Portishead ...	30.16	44	NNE	3	bc		30.19	+ .25	44	43	+ 4	NNE	4	o	4		46	38	-
Seilly ...																			
Plsmouth ...	30.15	43	NNE	2	b		30.22	+ .29	40	39	- 2	NH	2	bc	*		49	37	-
Hurst Castle ...	30.06	25	NNE	3	b		30.15	+ .30	45	44	+ 3	NE	2	o	2		47	39	-
Dover ...	29.96	46	ENE	3	b		30.13	+ .30	45	42	- 2	NNE	4	od	3		49	44	0.07
London ...	30.14	45	N	2	o		30.17	+ .28	45	44	+ 5	NE	3	o	*		48	40	-
Oxford ...							30.21	+ .27	44	43	+ 7	N	1	o	*		48	36	0.01
Cambridge ...	30.16	42	N	2	b		30.24	+ .27	44	43	+ 10	NE	1	t	*		49	33	0.03
Yarmouth ...	30.10	45	NNE	4	cm		30.18	+ .27	45	45	o	NE	4	dog	4		46	44	0.11
The Helder ...							30.15	+ .26	44	44	+ 3	NE	2	o	*		*	*	-
Cape Gris Nez ...	30.32	43	ENE	4	b		30.39	+ .31	39	39	- 4	ENE	2	o	1		48	39	-
Jersey ...	30.05	48	NE	6	b		30.15	?	46	45	o	N	3	c	3		49	45	0.03
Brest ...	30.06	50	N	4	b		30.18	+ .34	43	41	- 2	NE	2	o	3		48	41	0.04
L'Orient ...	30.02	46	NNE	5	b		30.15	+ .28	43	41	- 2	NNE	3	b	3		30	41	-
Roche ...	29.86	50	N	5	o		30.12	+ .36	43	41	- 3	NNE	5	bc	3		34	43	0.04
Biarritz ...	29.86	34	SSH	2	b		30.00	+ .18	41	39	- 4	Z	0	o	5		?	39	0.98
Corunna ...																	*	*	*
Brussel ...							30.10	+ .30	39			ENE	3	o	*		*	*	-
Charleville ...							29.97	+ .26	35			NNH	4	o	*		*	*	*
Paris ...	29.93	45	NE	5	o		30.01	+ .29	38	36	- 4	NNE	4	o	*		*	*	-
Lyons ...							29.91	+ .15	46			N	2	z	*		*	*	*
Toulon ...	29.65	45	NE	2	o		29.73	+ .06	45	45	- 1	NE	3	o	3		48	?	-

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

Bar.	Dry.	Wet.	Wind.	Wet.	Sea.	Bar.	Dry.	Wet.	Wind.	Wet.	Sea.
Skudesnaes ...	30.31	39	35	NNE	2	?	Valencia ...				
Thurso ...							Seilly ...				
Scarborough ...							London ...				
Greencastle ...							Roche ...	29.79	45	43	N
Holyhead ...											

EXPLANATION OF COLUMNS.

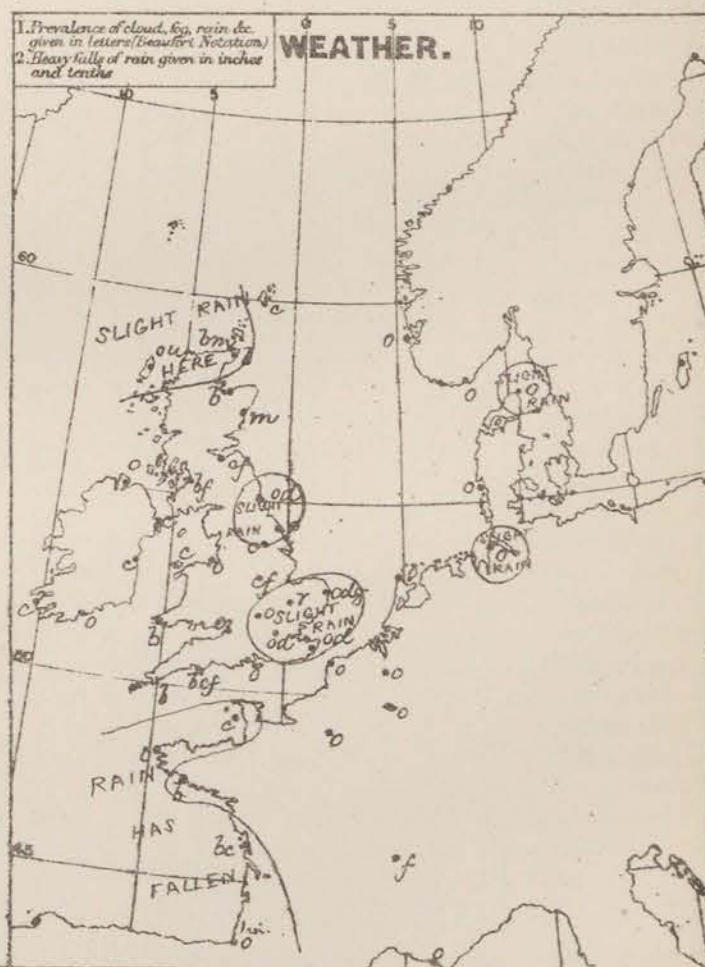
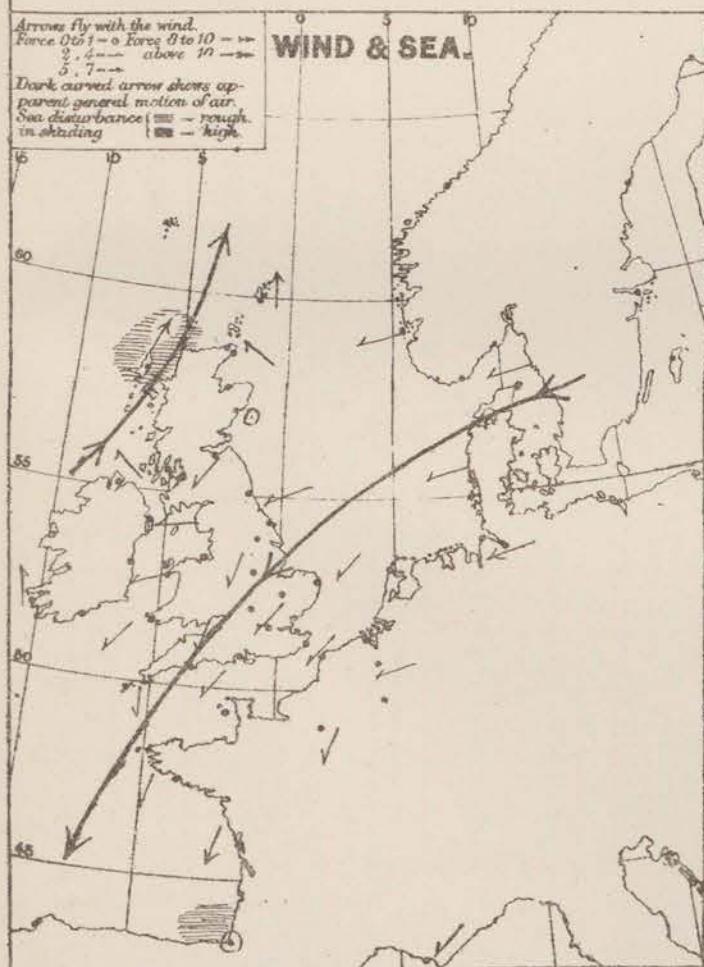
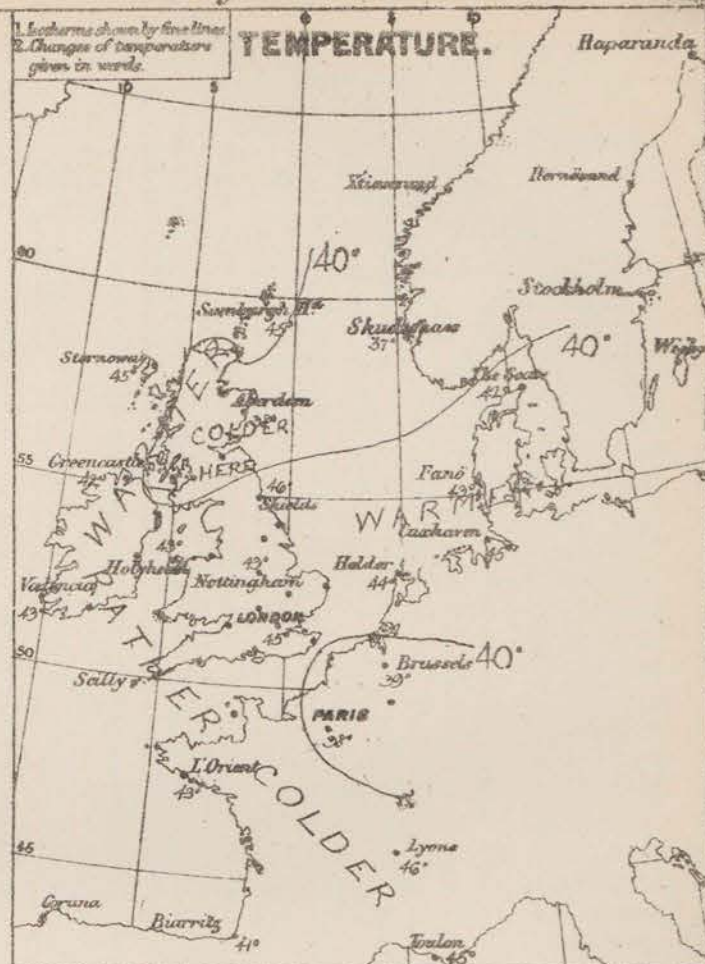
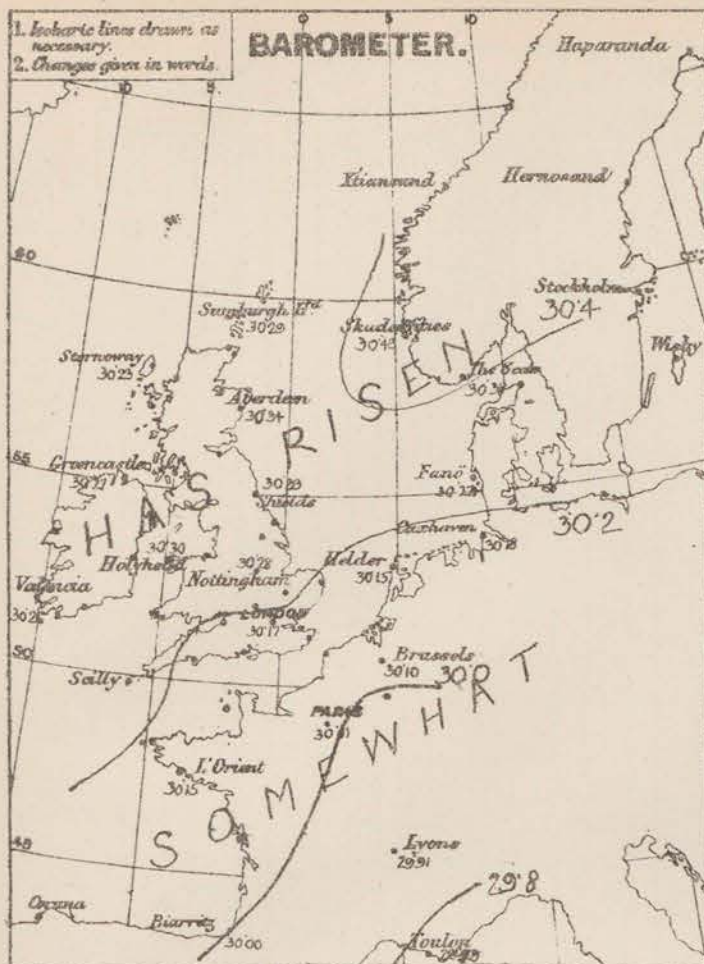
WEATHER.—Beaufort scale is, b. blue sky; o. detached clouds; d. drizzling rain; f. fog; g. dark, gloomy; h. hail; l. lightning; m. misty (hazy); o. overcast; p. passing showers; q. squally; r. rain; s. snow; t. thunder; u. ugly, threatening; v. visibility, unusual transparency; w. dew.

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

† The evening observations are taken at 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 Monday 3rd Dec^r 1877.



REMARKS. Weather is locally clear in the north east of Scotland and at some of the south western stations, but is overcast or very cloudy elsewhere, with mist, fog and drizzling rain in the east. Very little rain has occurred except at Biarritz, where nearly an inch has fallen during a thunderstorm yesterday. Temperature has fallen over France, at our south western stations and in the southern and central parts of Scotland, but has risen just in the north of the latter country and to a less extent in the east of England; it is very low in the west of Scotland. Wind is light or moderate from NE generally, but in the west of Ireland a light SE breeze has sprung up, while at Harpenden, Thurso and in the Shetlands a fresh E wind is reported. Sea is rough in the north, slight or smooth on our other coasts.

Barometrical Indications. Pressure continues to increase over the greater part of Western Europe but during the night a slight decrease has set in in the extreme west and north west. Readings are highest over Norway, and lowest over the south east of France.

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

R. H. SCOTT.
Secretary.

DAILY WEATHER REPORT

DEC 4TH 1877.

STATIONS.	† YESTERDAY EVENING.						8 A.M. TO DAY.										PAST 24 HOURS.		
	Barometer at 32° F. and Sea Level.	Temp. in shade.	WIND.		Weather.	Barometer at 32° F. and Sea Level.	SHADE TEMP.			Difference from 8 a.m. yesterday.	WIND.		Weather.	Sea. (0 to 9).	SHADE TEMP.		Amount of Rainfall.		
			Dir.	Force. (0 to 13).			Dry.	Wet.	Dir.		Force. (0 to 13).	Max.			Min.				
Haparanda ...	30.32	33	SW	2	b	30.33	33	32			SW	6	b	*	34	28	-		
Hernösand ...	30.50	38	Z	0	r	30.45	35	34			SW	2	o	*	*	*	-		
Stockholm ...	30.45	38	NE	2	o	30.38	37	36			NE	2	o	*	*	*	-		
Wisby ...	30.36	38	ESE	4	r	30.35	36	35			ESE	6	o	*	*	*	0.04		
Christiansund ...	30.33	35	ESE	1	b	30.19	34	33	- 3		ESE	2	b	3	37	30	-		
Skudesnaes ...	30.39	40	NE	2	n	30.21	42	40	+ 5		Z	0	ff	2	?	37	-		
Oxö (Åtiansand) ...	30.41	39	NE	6	o	30.26	40	39	+ 1		NE	4	r	3	41	30	0.09		
Skagen (The Skaw) ...	30.29	42	E	3	o	30.31	39	37	- 3		SE	3	o	2	43	36	-		
Fanö ...	30.25	42	E	4	o	30.13	41	41	- 2		E	4	o	*	43	39	-		
Cuxhaven ...	30.20	42	E	4	o	30.08	44	44	- 1		E	4	o	*	?	41	-		
Sumburgh Head ...	30.24	44	S	5	o	30.06	44	43	- 1		S	1	r	5	47	41	-		
Stornoway ...	30.09	45	SSW	6	b	29.98	44	43	- 1		SSW	4	r	2	45	?	0.06		
Thurso ...	30.19	36	S	2	b	30.03	36	36	+ 1		SSW	1	o	2	41	33	-		
Wick ...	30.20	42	S	2	b	30.04	42	41	0		Z	0	m	1	45	33	-		
Nairn ...	30.23	35	Z	0	b	30.07	44	43	+ 7		Z	0	b	0	40	31	-		
Aberdeen ...	30.29	42	Z	0	m	30.07	41	40	+ 3		SSW	1	m	0	44	38	0.05		
Leith ...	30.30	41	Z	0	o	30.09	42	40	+ 4		Z	0	ff	*	43	37	-		
Shields ...	30.19	46	ESE	2	bc	30.11	41	40	- 5		N	1	om	3	47	40	0.02		
Scarborough ...	30.26	44	ENE	4	m	30.07	43	43	- 3		NE	2	m	2	46	43	0.02		
York ...	30.28	42	NE	1	o	30.10	41	41	- 4		NE	1	o	*	45	39	0.01		
Nottingham ...	30.23	43	NE	2	r	30.09	43	42	0		NNW	2	o	*	45	43	0.04		
Ardrossan ...	30.27	42	NE	1	ff	30.07	42	40	+ 9		ENE	1	ff	1	44	33	-		
Greencastle ...	30.20	44	S	2	o	30.01	42	41	0		S	1	o	*	46	41	-		
Donaghadee ...	30.26	46	S	3	o	30.06	44	44	+ 1		S	2	c	1	46	43	-		
Kingstown ...	30.24	46	SSW	1	o	30.08	45	43	+ 1		S	1	cf	1	46	42	-		
Holyhead ...	30.24	45	ENE	1	o	30.08	42	41	- 1		S	1	ff	0	47	40	-		
Liverpool (Bidston) ...	30.25	44	ENE	2	o	30.09	41	41	- 1		NE	1	ff	1	45	39	-		
Valencia ...	30.16	47	SE	4	o	29.98	46	45	+ 3		SE	3	r	3	50	42	0.18		
Roche's Point ...	30.18	44	SE	3	o	30.02	47	45	+ 6		SSW	3	o	3	48	39	-		
Pembroke ...	30.19	44	ENE	1	bc	30.04	42	42	+ 3		ENE	1	om	1	46	39	-		
Portishead ...	30.18	45	NNE	3	o	30.05	43	42	- 1		N	2	r	3	46	41	-		
Scilly ...																			
Plymouth ...	30.17	44	N	2	o	30.05	42	42	+ 2		Z	0	o	*	46	39	-		
Hurst Castle ...	30.14	46	N	2	r	30.00	45	45	0		N	1	bc	1	47	42	0.03		
Dover ...	30.09	47	E	4	o	29.97	45	43	0		ENE	4	og	3	48	44	0.04		
London ...	30.16	47	NNE	2	gd	30.01	44	43	- 1		NE	1	og	*	47	43	0.06		
Oxford ...	*	*	*	*	*	30.04	43	43	- 1		N	1	m	*	45	43	0.06		
Cambridge ...	30.16	45	NE	1	r	30.03	43	43	- 1		N	1	r	*	47	42	0.06		
Yarmouth ...	30.16	45	ENE	4	od	30.00	45	44	0		ENE	3	o	4	46	43	0.03		
The Helder ...	*	*	*	*	*	29.99	44	43	0		NE	2	c	*	*	*	-		
Cape Gris Nez ...	30.03	46	NE	4	o	29.93	41	39	+ 2		ESE	1	ff	1	48	37	0.04		
Jersey ...	30.13	48	NNE	3	o	30.05	48	46	+ 2		NNE	2	om	2	49	43	0.03		
Brest ...	30.17	50	N	2	m	30.08	46	43	+ 3		N	2	o	3	50	43	0.04		
L'Orient ...	30.12	46	NNE	3	b	30.08	45	45	+ 2		NE	1	o	2	52	39	-		
Rochefort ...	30.05	52	NNE	4	bc	30.06	43	41	0		N	4	o	3	54	39	-		
Biarritz ...	30.04	50	N	2	o	30.06	43	41	+ 2		ESE	2	o	4	52	37	0.24		
Corunna ...	*	*	*	*	*										*	*	*		
Brussels ...	*	*	*	*	*	29.94	40		+ 1		ENE	3	o	*	*	*	-		
Charleville ...	*	*	*	*	*	29.94	38		+ 3		NNE	6	o	*	*	*	-		
Paris ...	30.02	39	NE	3	o	29.95	40	38	+ 2		N	3	o	*	*	*	-		
Lyons ...	*	*	*	*	*	29.93	44		- 2		NNW	6	o	*	*	*	-		
Toulon ...	29.67	45	NNW	5	bc	29.67	41	37	- 4		NNW	5	o	5	52	?	-		

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

	Bar.	Dry.	Wet.	Wind.	Wea.	Sea.		Bar.	Dry.	Wet.	Wind.	Wea.	Sea.	
Skudesnaes ...	30.41	39	37	ENE	2	r	Valencia ...	30.19	49	45	SE	3	cm	3
Thurso	30.22	40	39	S	2	b	Scilly							
Scarborough ...	30.28	44	44	ENE	4	m	London	30.15	47	46	NNE	2	sf	*
Greencastle ...	30.24	44	42	S	2	o	Rochefort ...	30.01	50	46	NNE	4	bc	3
Holyhead	30.27	45	44	NE	2	o								

Pressure is falling slowly everywhere, and the SEth wind at Valencia has increased slightly.

EXPLANATION OF COLUMNS.

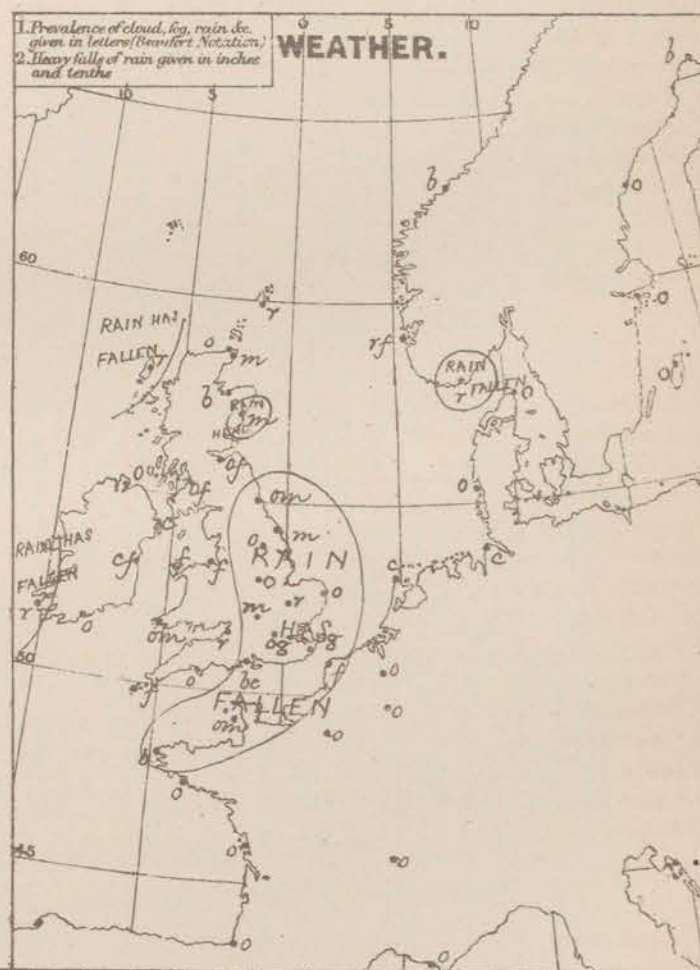
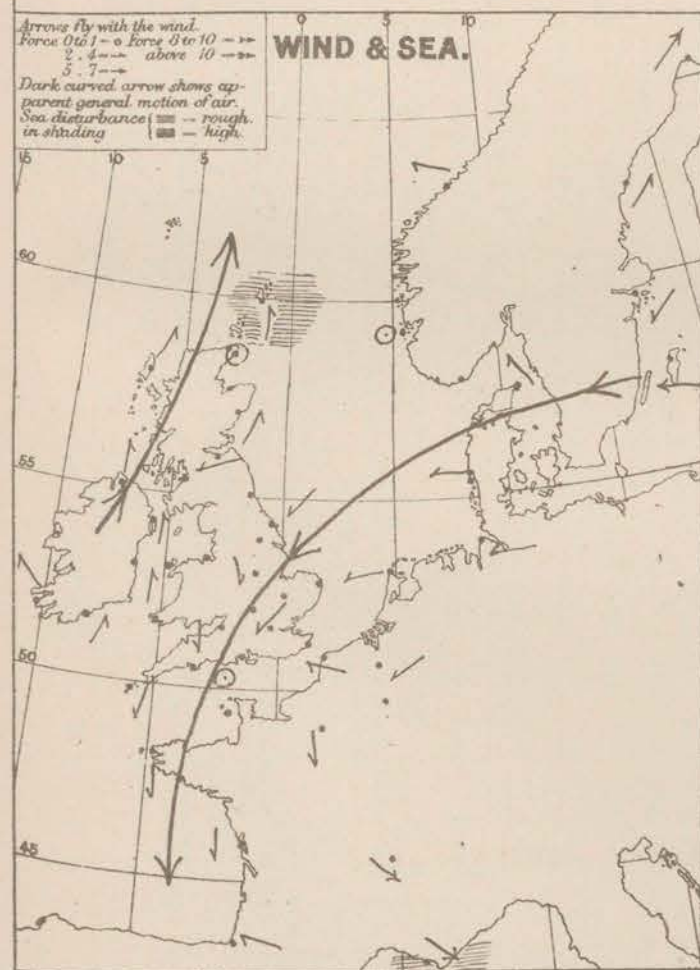
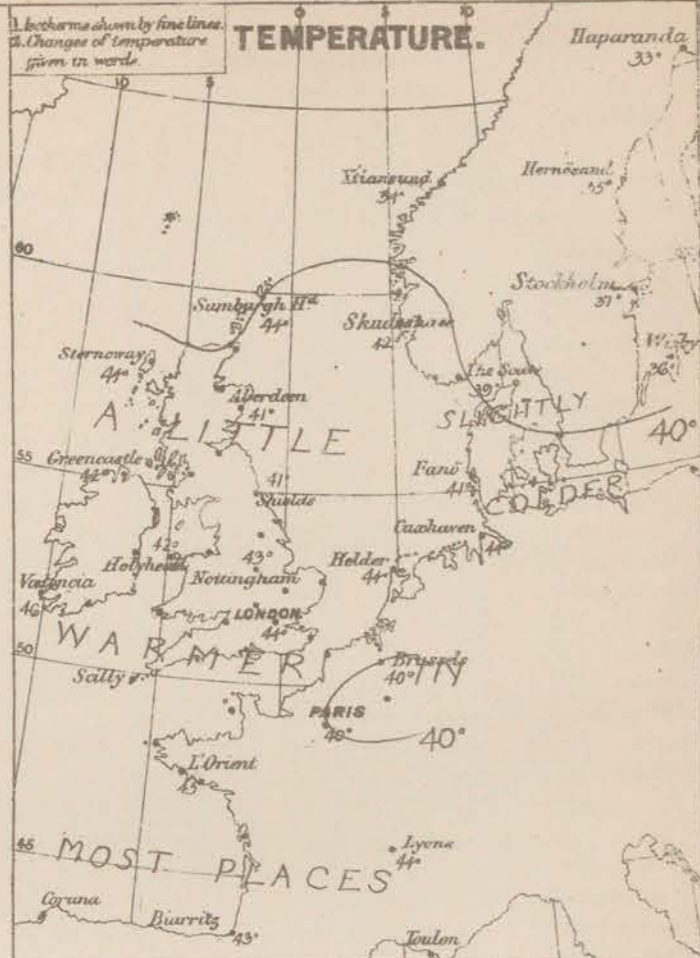
WEATHER.—Beaufort Scale is, b. blue sky; c. detached clouds; d. drizzling rain; f. fog; g. dark, gloomy; h. hail; l. lightning m. misty (hazy); o. overcast; p. passing showers; q. squally; r. rain; s. snow; t. thunder; u. ugly, threatening; v. visibility, unusual transparency w. dew.

* 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 4TH DEC^R 1877.



REMARKS. Weather is dull or very cloudy in nearly all parts of Western Europe, with rain in the west and north of these Islands and the west of Norway, fog or mist at a great number of our stations. Rain fell over France and the south and east of England yesterday. Temperature has fallen slightly at the more eastern stations but has risen in the north, west and south; it now varies from 36° to 44° over Scotland, from 42° to 47° over Ireland and from 41° to 45° over England, while as far south as London the thermometer is as low as 41° . Wind blows from E over North Germany and the North Sea through NE over the south east of England and the Netherlands into N. and NW. in France; in our Islands light variable airs are general, but in the west and north a light Sth breeze has appeared. Sea is slight to calm.

Barometrical Indications. Pressure has recovered slightly in the south west of France, but in all other parts of Western Europe the mercury has fallen. The highest readings are still shown over Scandinavia, and the lowest over the south of France, but on our west coast also low pressures are appearing.

Subscription for these Charts payable in advance to cover delivery. Delivery by hand 4/6 per quarter, book post 5/- per quarter.

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

R. H. SCOTT.
Secretary.

DAILY WEATHER REPORT DEC^r 5th 1877.

STATIONS.	† YESTERDAY EVENING.					8 A.M. TO DAY.										PAST 24 HOURS.		
	Barometer at 820 P. and Sea Level.	Temp. in shade.	WIND.		Weather.	BAROMETRE.		SHADE TEMP.			WIND.		Weather.	Sea. (0 to 9.)	SHADE TEMP.		Amount of Rainfall.	
			Dirco.	Force. (0 to 12).		Reading at 820 P. and Sea Level.	Difference from 8 A.M. yesterday.	Dry.	Wet.	Difference from 8 A.M. yesterday.	Dirco.	Force. (0 to 12).			Max.	Min.		
Haparanda ...														*		*		
Hernösand ...														*		*		
Stockholm ...														*		*		
Wisby ...														*		*		
Christiansund ...	30.04	42	SE	2	c	30.01	-.18	41	36	+ 7	SE	1	3	4	?	36	-	
Skudesnaes ...	30.12	41	SSE	4	r	30.06	-.15	41	39	- 1	ESE	2	0	3	?	41	-	
Oxö (Ålansand) ...	30.15	40	E	6	r	30.10	-.16	37	36	- 3	N	4	0	3	41	34	0.13	
Skagen (The Sea) ...	30.17	39	ESE	3	r	30.10	-.21	39	39	0	ESE	3	r	1	39	34	0.04	
Fanö ...	30.04	41	E	2	r	30.02	-.11	39	39	- 2	E	2	0	*	41	39	0.04	
Cuxhaven ...	30.02	*	ESE	3	o	29.99	-.09	42	42	- 2	ENE	2	0	*	43	39	0.02	
Sumburgh Head ...	29.95	44	S	3	o	29.91	-.15	42	40	- 2	Z	0	2	2	45	39	0.08	
Stornoway ...	29.91	44	SSW	3	r	29.88	-.10	44	43	- 1	E	1	r	4	44	41	0.32	
Thurso ...	29.93	39	S	1	o	29.90	-.13	37	37	+ 2	S	1	0	2	41	35	-	
Wick ...	29.94	42	S	1	o	29.92	-.12	42	40	0	SW	1	0	2	44	35	-	
Nairn ...	29.97	40	Z	0	o	29.94	-.13	39	36	- 2	Z	0	3	1	41	38	0.03	
Aberdeen ...	29.99	42	SW	1	3	29.95	-.12	38	37	- 3	SSW	1	3	0	43	37	-	
Leith ...	30.02	42	SE	1	3	29.98	-.11	39	39	- 3	Z	0	3	*	45	37	-	
Shields ...	30.04	42	NE	2	om	30.01	-.10	42	40	+ 1	NNW	1	3	3	43	39	0.02	
Scarborough ...	30.01	43	NNW	1	o	29.99	-.08	44	44	+ 1	NN	1	3	2	44	42	0.11	
York ...	30.03	42	NE	1	o	30.00	-.10	38	38	- 3	N	1	0	*	45	37	0.03	
Nottingham ...	30.04	44	NNW	1	o	30.01	-.08	40	40	- 3	NN	1	3	*	46	39	0.01	
Ardrossan ...	30.00	42	E	1	r	29.97	-.10	40	39	- 2	E	1	3	0	43	40	0.08	
Greencastle ...	29.97	42	SW	1	r	29.90	-.11	42	41	0	SE	2	0	*	45	39	0.07	
Donaghadee ...	30.01	42	S	1	o	29.97	-.09	36	36	- 8	WSW	2	3	1	45	35	0.03	
Kingstown ...	30.03	46	Z	0	o	29.98	-.10	45	44	0	Z	0	3	1	46	43	0.04	
Holyhead ...	30.01	44	Z	0	3	29.97	-.11	43	42	+ 1	SSW	1	3	0	45	41	-	
Liverpool (Bidston) ...	30.03	43	ESE	1	o	30.00	-.09	40	40	- 1	SE	1	3	1	44	40	0.01	
Valencia ...	29.97	48	SE	3	c	29.85	-.12	48	47	+ 2	SE	3	0	4	50	44	0.02	
Roche's Point ...	30.07	48	SSW	2	o	29.92	-.10	48	47	+ 1	SSE	3	0	4	50	44	0.02	
Pembroke ...	30.02	46	ENE	1	o	29.98	-.06	44	44	+ 2	ENE	1	om	1	48	42	0.16	
Portishead ...	30.02	44	N	2	o	29.98	-.07	41	40	- 2	NNE	1	om	2	46	39	-	
Scilly ...																		
Plymouth ...	30.03	44	Z	0	o	30.00	-.05	34	34	- 8	Z	0	3	*	47	34	-	
Hurst Castle ...	29.96	45	NNE	1	o	29.97	-.03	43	43	- 2	NNE	1	0	1	47	?	-	
Dover ...	29.93	45	NNE	2	o	29.95	-.02	43	42	- 2	NN	3	og	2	46	43	0.05	
London ...	29.98	46	NE	2	og	29.99	-.02	41	40	- 3	Z	0	alg	*	46	40	0.02	
Oxford ...	*	*	*	*	*	30.00	-.04	41	40	- 2	Z	0	3	*	45	41	0.02	
Cambridge ...	29.97	45	N	1	o	29.97	-.06	42	41	- 1	N	1	0	*	47	40	0.07	
Yarmouth ...	29.94	44	ENE	2	o	29.97	-.03	43	43	- 2	Z	0	omg	3	45	41	0.05	
The Helder ...	*	*	*	*	*	29.99	0.00	41	40	- 3	ENE	1	o	*	*	*	-	
Cape Gris Nez ...	29.89	44	S	1	3	29.95	+ .02	45	43	+ 4	N	2	0	2	?	39	0.12	
Jersey ...	30.03	46	NNE	1	o	30.03	-.02	43	42	- 5	NNE	1	3	2	49	42	0.02	
Brest ...	30.06	48	NN	1	o	29.98	-.10	46	46	0	E	3	3	3	50	45	0.12	
L'Orient ...	30.05	45	NN	3	c	30.01	-.07	46	46	+ 1	ESE	3	r	3	50	43	0.20	
Rochefort ...	30.07	52	NN	2	o	30.03	-.03	48	48	+ 5	S	2	r	3	59	39	0.08	
Biarritz ...	30.11	50	SSE	1	r	30.09	+ .03	48	46	+ 5	S	1	0	3	61	41	0.04	
Corunna ...	*	*	*	*	*									*	*	*	*	
Brussels ...	*	*	*	*	*	29.99	+ .05	39	*	- 1	ENE	3	0	*	*	*	0.03	
Charleville ...	*	*	*	*	*	29.95	+ .11	39	*	+ 1	SSW	?	0	*	*	*	*	
Paris ...	29.96	39	NN	3	o	29.99	+ .05	40	40	0	N	2	3	*	*	*	0.04	
Lyons ...	*	*	*	*	*	30.07	+ .14	45	*	+ 1	NN	2	0	*	*	*	*	
Toulon ...	29.79	43	NN	4	3	30.08	+ .18	45	39	+ 4	NN	1	c	5	46	39	-	

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

	Bar.	Dry.	Wet.	Wind.	Wca.	Sea.		Bar.	Dry.	Wet.	Wind.	Wca.		
Skudesnaes ...	30.13	41	39	SE	4	r	3	Valencia	29.95	48	47	SE	4	c
Thurso	29.87	39	39	SSW	1	o	2	Scilly						
Scarborough ...	30.01	44	42	ENE	2	c	3	London	29.97	46	44	NE	1	algm
Greencastle ...	29.95	45	42	SE	?	o	*	Rochefort ...	30.03	48	46	N	3	o
Holyhead	30.01	44	43	Z	0	0 1/2	0							

Temp little change has occurred since the morning. -

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.

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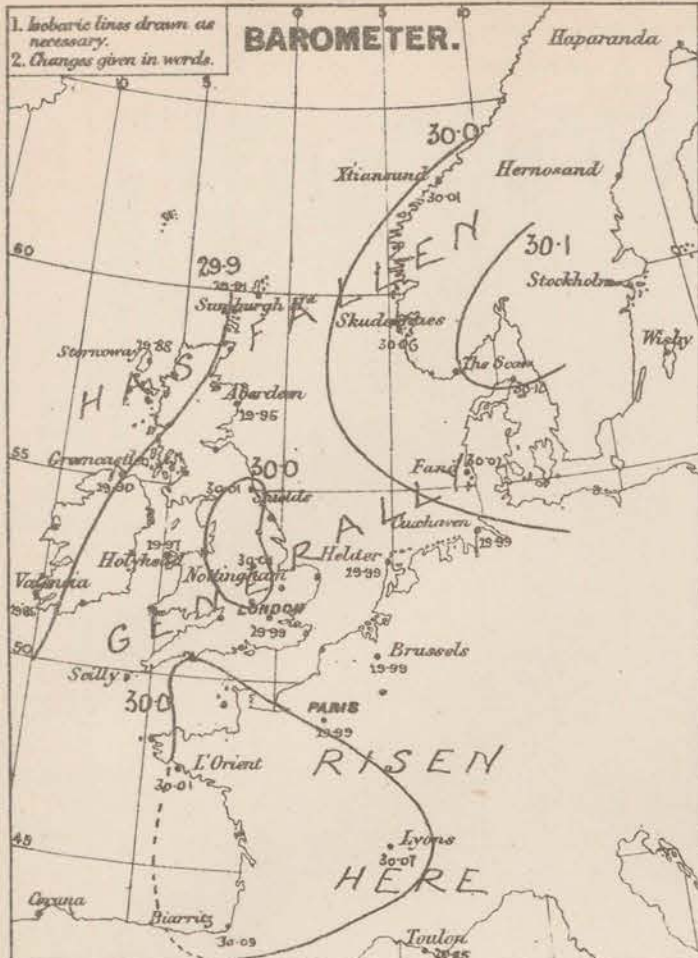
† The evening observations are taken at 8 p.m. in our Islands, at 8 p.m. (Christiania time) in Sweden, Norway, and Denmark, and at 7 p.m. (Paris time) in France.

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 Wednesday DEC 5TH 1877.

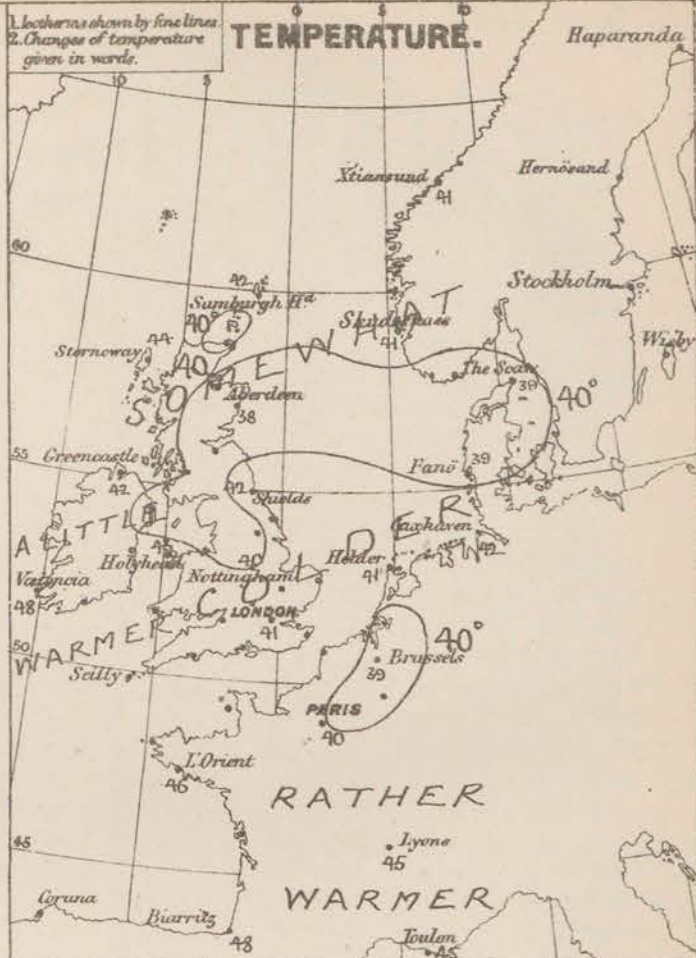
1. Isobaric lines drawn as necessary.
2. Changes given in words.

BAROMETER.



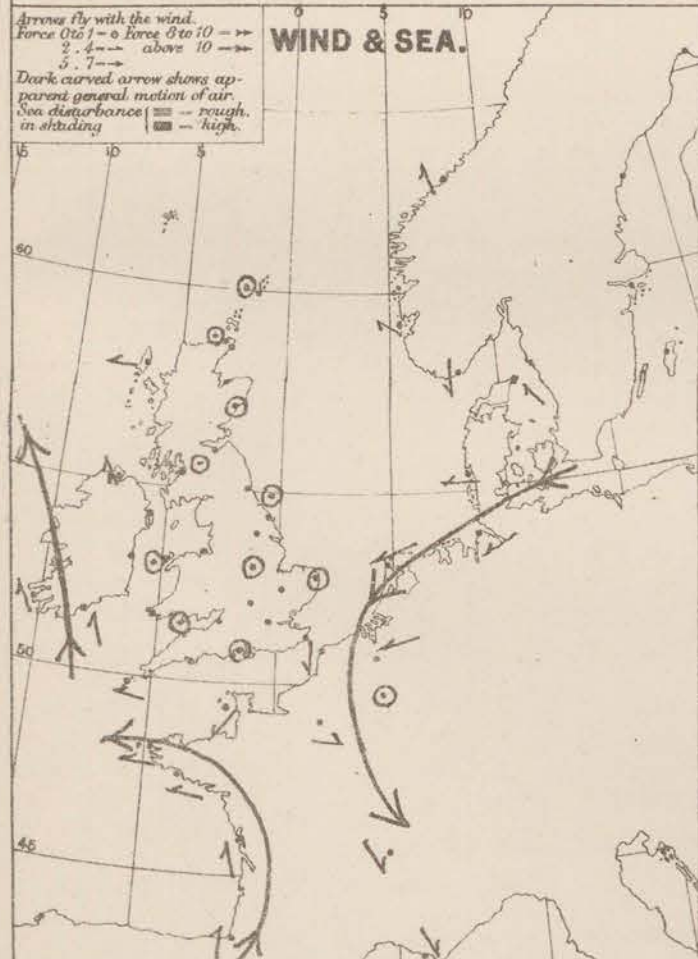
1. Isotherms shown by fine lines
2. Changes of temperature given in words.

TEMPERATURE.



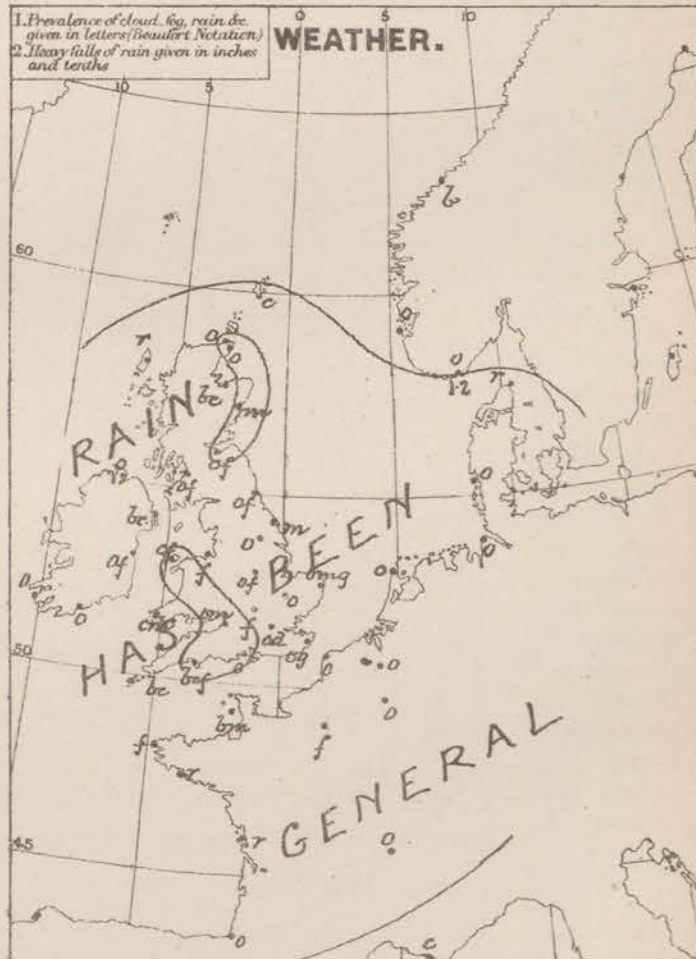
1. Arrows fly with the wind.
- Force 0 to 1 - 0 Force 8 to 10 - 2, 4 - above 10 - 5, 7 -
- Dark curved arrow shows apparent general motion of air.
- Sea disturbance in shading: rough, high.

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 fine at Christiansund but at all other stations the sky is overcast, or very cloudy, and in many places fog, mist and rain are reported. Rain fell generally yesterday, but in very small amounts over these Islands and their neighbourhood. Temperature has risen at most of the French stations, and on our Wnd and Nth coasts, but has fallen elsewhere. The changes are, however, very slight. It varies from 37° to 44° over Scotland, from 42° to 48° over Ireland, and from 38° to 45° over England. Winds light from S over Ireland, and from NE to E. over N. Germany, and the N. of France, while over Great Britain calms prevail. Sea is slight to calm.*

Barometrical indications. *Pressure has increased slightly in the E. of France, and the Netherlands but fallen in all other parts of W. Europe. It is highest over Scandinavia, and lowest off the S. coast of Ireland, but readings are very uniform over these Islands.*

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

R. H. SCOTT.
Secretary.

DAILY WEATHER REPORT DEC 6TH 1877.

STATIONS.	↑ YESTERDAY EVENING.					8 A.M. TO DAY.										PART 24 HOURS.		
	Barometer at 32° F. and Sea Level.	Temp. in shade.	WIND.		Weather.	BAROMETER.		GRADE TEMP.			WIND.		Weather.	Sea. (0 to 9.)	GRADE TEMP.		Amount of Rainfall.	
			Dir.	Force. (0 to 12).		Reading at 8 A.M. and Sea Level.	Difference from 8 a.m. yesterday.	Dry.	Wet.	Difference from 8 a.m. yesterday.	Dir.	Force. (0 to 12).			Max.	Min.		
Haparanda ...																		
Hernösand ...																		
Stockholm ...																		
Wisby ...																		
Christiansund ...	29.91	39	ESE	3	8	29.88	-.13	36	33	-.5	ESE	3	8	3	41	34	-	
Skudesnaes ...	30.04	42	SE	6	0	29.85	-.21	42	38	+.1	SE	6	0	4	?	41	-	
Oxö (Kriensand) ...	30.10	37	NNE	4	0	29.97	-.13	41	39	+.4	SE	5	0	3	?	36	0.04	
Skagen (The Seaw) ...	30.10	41	E	2	0	30.04	-.06	40	39	+.1	ESE	3	0	2	41	36	-	
Fanö ...	30.04	38	ENE	4	0	29.95	-.07	37	36	-.2	SE	5	0	*	39	36	-	
Cuxhaven ...	30.06	*	ENE	2	0	29.98	-.01	38	38	-.4	SSE	2	0	*	41	36	-	
Sumburgh Head ...	29.83	45	S	4	C	29.66	-.17	45	41	+.3	SE	8	0	7	46	39	0.02	
Stornoway ...	29.69	45	E	5	0	29.00	-.68	45	43	+.1	NE	5	0W	5	46	42	0.07	
Thurso ...	29.77	41	SSE	1	C	29.29	-.48	43	42	+.1	ESE	6	19	4	44	39	0.04	
Wick ...	29.78	44	S	3	0	29.29	-.48	44	43	+.2	S	8	7	7	46	39	0.04	
Nairn ...	29.78	40	SH	1	8	29.24	-.54	42	40	+.2	SH	1	C	1	43	36	-	
Aberdeen ...	29.74	44	S	3	0	29.36	-.38	44	42	+.2	S	8	7	6	45	37	0.23	
Leith ...	29.84	41	SE	1	0	29.28	-.56	41	39	+.2	S	4	9	*	43	38	-	
Shields ...	29.91	45	Z	0	CW	29.39	-.52	42	41	0	SSE	7	d	4	45	41	0.12	
Scarborough ...	29.91	43	SSE	3	W	29.44	-.47	43	42	-.1	SSE	8	7	5	44	41	0.18	
York ...	29.91	43	NE	1	W	29.42	-.49	43	42	+.1	S	3	W	*	44	36	0.34	
Nottingham ...	29.91	42	Z	0	0	29.44	-.57	44	43	+.1	SSE	6	7	*	44	39	0.44	
Ardrossan ...	29.79	42	ESE	2	0	29.17	-.62	44	43	+.1	SSE	5	0	4	44	39	0.27	
Greencastle ...	29.69	45	S	2	0	28.99	-.70	49	48	+.1	S	3	0	*	50	39	0.11	
Donaghadee ...	29.75	47	S	3	0	29.12	-.63	48	48	+.0	S	5	0	4	48	36	0.30	
Kingstown ...	29.71	47	SSE	7	C	29.16	-.55	51	50	+.1	SSE	3	C	3	57	44	0.31	
Holyhead ...	29.80	41	Z	0	0	29.22	-.58	51	50	+.1	SSH	2	7	2	57	41	0.31	
Liverpool (Bidston) ...	29.85	39	ESE	3	7	29.29	-.56	45	44	+.1	SE	5	0	3	45	39	0.36	
Valencia ...	29.41	50	SE	8	CW	29.24	-.17	51	49	+.2	?	6	0	6	54	47	0.07	
Roche's Point ...	29.24	48	S	7	7	29.28	-.44	51	50	+.1	H	4	C	4	52	47	0.94	
Pembroke ...	29.78	48	SE	3	0	29.31	-.47	53	53	+.0	SSH	5	0W	4	53	44	0.75	
Portishead ...	29.86	44	ESE	3	C	29.40	-.46	52	51	+.1	SSH	4	0	4	52	36	0.28	
Seilly ...																		
Plymouth ...	29.85	43	E	1	30	29.45	-.40	52	52	+.0	SH	4	0	*	54	44	0.65	
Hurst Castle ...	29.88	44	NNE	3	8	29.44	-.44	51	51	+.0	SH	6	7	6	52	43	0.59	
Dover ...	29.94	44	NNE	2	0	29.64	-.30	45	43	+.2	SSH	6	0W	5	47	43	0.02	
London ...	29.95	45	Z	0	0	29.53	-.42	45	44	+.1	S	4	0	*	45	40	0.20	
Oxford ...						29.47	-.48	46	45	+.1	SSE	3	7	*	46	41	0.47	
Cambridge ...	29.94	40	NW	1	7	29.55	-.40	43	43	+.0	SSE	1	7	*	45	38	0.27	
Yarmouth ...	29.94	43	ESE	3	0	29.65	-.30	44	43	+.1	SSE	6	0	5	45	42	0.03	
The Helder ...						29.84	-.11	40	39	+.1	SE	1	0	*	*	*	-	
Cape Gris Nez ...	29.97	45	Z	0	0	29.67	-.30	42	41	+.1	S	6	0	4	46	39	-	
Jersey ...	29.94	47	SSE	3	8	29.59	-.35	53	53	+.0	SH	6	0	5	53	42	0.35	
Brest ...	29.86	50	SE	4	0	29.67	-.19	54	52	+.2	SSH	4	0	4	?	45	0.57	
L'Orient ...	29.90	50	SE	3	W	29.71	-.19	54	54	+.0	NW	3	C	4	51	43	0.95	
Rochefort ...	29.97	52	SE	3	0	29.86	-.11	54	52	+.2	SH	2	7	3	59	43	0.63	
Biarritz ...	29.98	50	ESE	2	0	29.91	-.07	54	50	+.4	SH	4	7	3	59	45	0.82	
Corunna ...																		
Brussels ...						29.24	-.15	40	*	+.1	ESE	6	30	*	*	*	-	
Charleville ...						29.86	-.09	39	*	0	SE	6	0	*	*	*	-	
Paris ...	30.00	42	E	3	7	29.81	-.19	41	40	+.1	SSE	3	7	*	*	*	0.04	
Lyons ...						30.00	-.07	46	*	+.1	NW	?	7	*	*	*	-	
Toulon ...	29.82	45	NW	4	7	29.85	-.03	46	39	+.5	E	3	8	5	44	41	-	

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

	Bar.	Dry.	Wet.	Wind.	Wen.	Sea.		Bar.	Dry.	Wet.	Wind.	Wen.	Sea.		
Skudesnaes ...	30.05	42	39	SE	2	0	2	Valencia	29.63	51	50	SE	7	egg	6
Thurso	29.81	42	41	S	1	0	2	Seilly							
Scarborough ..	29.95	44	44	SSE	1	0	2	London	29.95	44	42	Z	0	gmd	#
Greencastle ...	29.79	45	43	S	2	C	#	Rochefort ...	29.97	50	50	Sf	3	0	3
Holyhead	29.90	45	44	SSH	1	30	1								

The mercury is still falling everywhere, but at Valencia the change has become much since noon and the S.E. wind has increased to a strong equally breeze with a rough sea.

Harmings. The following warning was sent to our N. and S.W. coast yesterday. "Barometer falling fast Valencia, strong S.E. wind; light south coast. 3 P.M. Wednesday.

EXPLANATION OF COLUMNS.

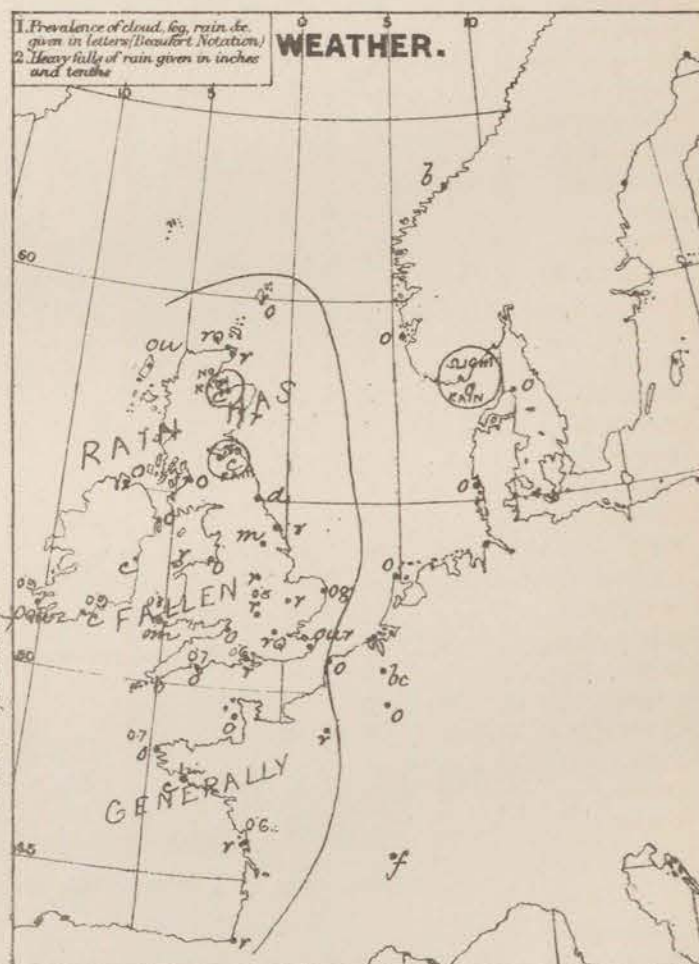
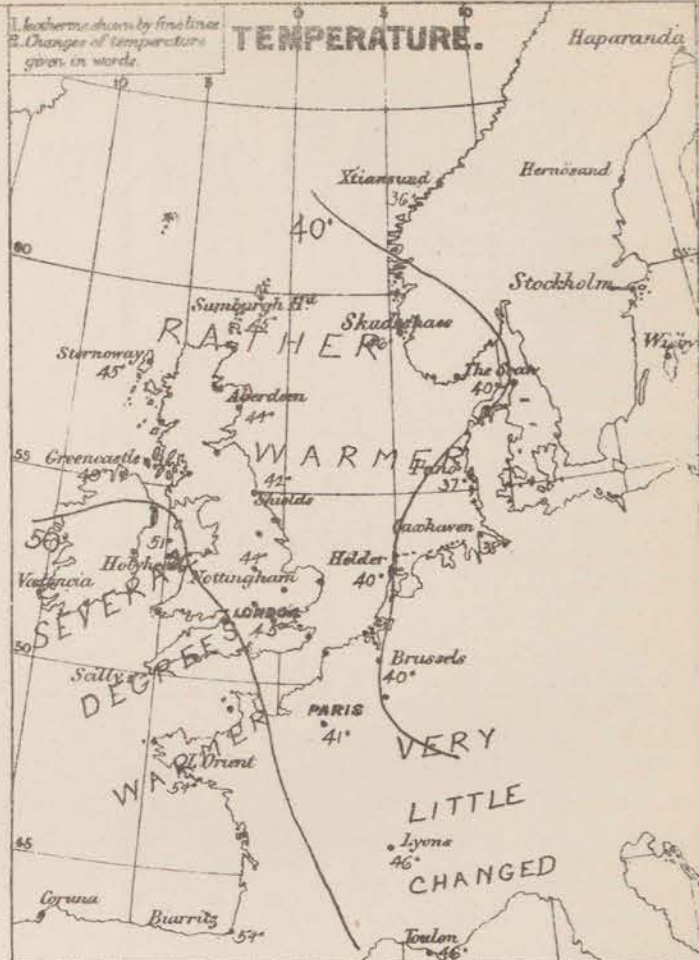
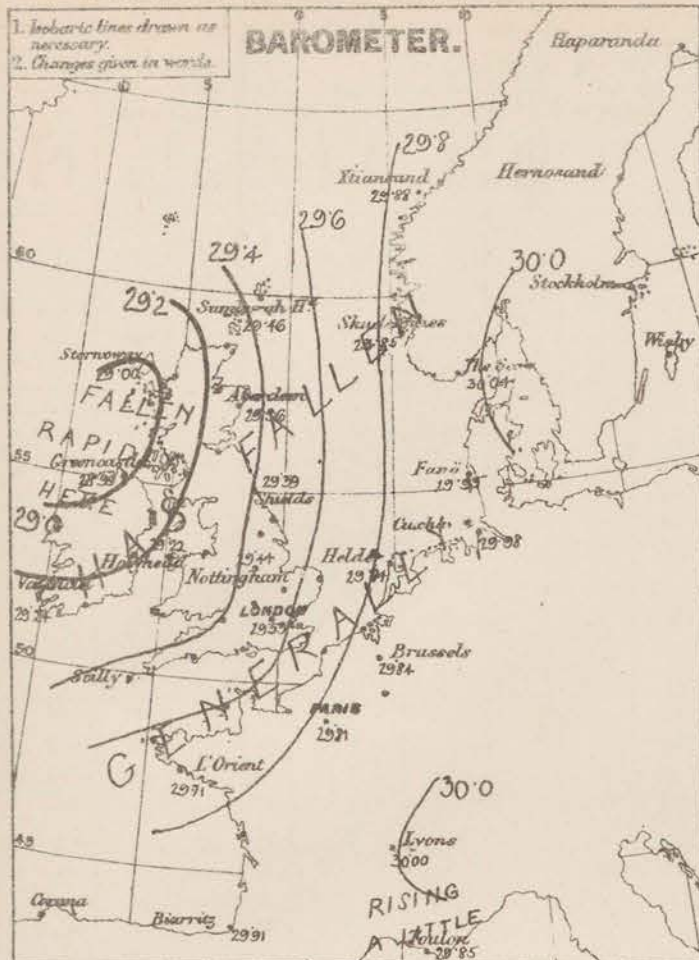
WEATHER.—Beaufort scale is, b. blue sky; c. detached clouds; d. drizzling rain; f. fog; g. dark, gloomy; h. hail; l. lightning; m. misty (hazy); o. overcast; p. passing showers; q. equally; r. rain; s. snow; t. thunder; u. ugly, threatening; v. visibility, unusual transparency; w. dew.

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† The evening observations are taken at 6 p.m. in our Islands, at 3 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 DEC. 6TH 1877.



REMARKS. Weather is overcast or very cloudy in all parts of Western Europe, and in the east and south-east rain is general. Rain fell in nearly all places yesterday, very heavily in the west and south-west. Temperature has risen everywhere; on our east coast the change is comparatively slight, but in the west it amounts to several degrees and at Plymouth to as much as 18°; it varies from 42° to 45° over Scotland, from 48° to 51° over Ireland, and from 42° to 53° over England. Wind is W in the south of Ireland and north-west of France but is S to SE elsewhere; it is comparatively light at the Irish stations but blows strongly over Great Britain, and reaches a peak gale on our east coast. During last night it blew a fresh or moderate gale in the south-west also. Sea is high in the north, rough except in the Irish Sea.

Barometrical Indications. The mercury has fallen rapidly in the north-west, and briskly generally, and a large and deep depression lies off the west of Scotland, while high pressures are reported from Scandinavia and Central Europe.

Remarks. The following warning was issued to our west coast yesterday afternoon:— "Barometer falling fast. Gale. Strong SE wind rough sea. Hail and snow. 3pm. Wednesday."

DAILY WEATHER REPORT DEC. 7th 1877.

STATIONS.	† YESTERDAY EVENING.					8 A.M. TO DAY.										LAST 24 HOURS.		
	Barometer at 32° F. and Sea Level.	Temp. in shade.	WIND.		Weather.	BAROMETER.		SHADE TEMP.			WIND.		Weather.	Sea (0 to 9.)	SHADE TEMP.		Amount of Rainfall.	
			Dir.	Force (0 to 12).		Reading at 32° F. and Sea Level.	Difference from 8 a.m. yesterday.	Dry.	Wet.	Difference from 8 a.m. yesterday.	Dir.	Force (0 to 12).			Max.	Min.		
Laparanda ...	30.17	31	SW	2	S	30.10		34	34		S	2	f	*	34	30	0.16	
Hernösand ...	30.13	35	Z	0	f	30.02		37	36		SE	2	r	*	*	*	0.08	
Stockholm ...	30.02	41	SSE	4	r	29.90		38	38		SSE	4	r	*	*	*	0.04	
Wisby ...	30.13	39	S	6	r	29.95		39	37		SSW	4	o	*	*	*	0.04	
Christiansund ...	29.63	38	ESE	4	8	29.42	-.46	46	38	+ 10	SSE	6	c	3	46	36	-	
Skudesnaes ...	29.58	42	SE	8	o	29.36	-.49	44	41	+ 2	SE	6	r	6	?	41	-	
Oxö (Ålansand) ...	29.59	39	SSE	8	o	29.57	-.46	43	41	+ 2	SSE	8	r	6	?	37	0.02	
Skagen (The Saaw) ...	29.57	40	SE	4	r	29.63	-.41	42	42	+ 2	SSE	6	r	6	43	37	0.04	
Fanö ...	29.70	39	S	6	o	29.58	-.37	44	43	+ 7	WSW	4	bc	*	45	36	0.12	
Cuxhaven ...	29.82	*	SSE	5	o	29.70	-.28	44	44	+ 6	SW	2	c	*	?	35	0.08	
Sumburgh Head ...	29.12	44	SE	10	o	29.25	-.21	44	40	- 1	W	5	o	5	46	41	0.14	
Stornoway ...	28.71	48	SSE	6	r	29.40	-.40	34	31	- 11	NNW	2	8	4	48	32	0.29	
Thurso ...	28.91	46	SSE	5	r	29.37	+ .08	38	37	- 5	SSW	2	c	3	47	37	0.21	
Wick ...	28.86	46	S	8	r	29.41	+ .12	36	35	- 8	SW	2	o	4	48	35	0.06	
Nairn ...	28.91	42	SW	4	c	29.46	+ .22	37	35	- 5	SW	2	bc	2	49	35	0.01	
Aberdeen ...	29.03	44	S	6	r	29.46	+ .10	40	37	- 4	WSW	1	8	4	47	40	0.55	
Leith ...	29.10	30	SW	4		29.57	+ .29	40	39	- 1	WSW	3	8	*	51	39	0.02	
Shields ...	29.21	47	S	5	cym	29.63	+ .24	41	38	- 1	W	4	8	4	50	39	0.07	
Scarborough ...	29.29	49	SW	5	r	29.68	+ .24	40	38	- 3	WSW	2	8	2	49	40	0.16	
York ...	29.35	49	WSW	3	o	29.73	+ .31	40	39	- 3	WSW	2	8	*	50	39	0.07	
Nottingham ...	29.45	48	SW	4	o	29.81	+ .37	37	36	- 7	SSW	3	8	*	52	37	0.06	
Ardrossan ...	29.13	51	WSW	5	o	29.61	+ .44	42	40	- 2	WSW	3	r	2	51	41	0.48	
Greencastle ...	29.08	46	SW	5	o	29.62	+ .63	38	36	- 11	SW	4	o	*	51	36	0.64	
Donaghadee ...	29.22	45	SW	5	c	29.68	+ .56	35	35	- 13	WSW	3	o	3	50	35	0.21	
Kingstown ...	29.37	47	W	5	8	29.75	+ .59	40	38	- 11	W	4	8	4	52	40	0.10	
Holyhead ...	29.40	48	WSW	4	c	29.75	+ .53	43	40	- 8	WSW	4	c	3	53	42	0.19	
Liverpool (Bidston) ...	29.34	48	WSW	8	8	29.76	+ .47	40	38	- 5	SW	4	8	4	52	40	0.12	
Valencia ...	29.58	48	W	6	cym	29.85	+ .61	42	39	- 9	W	4	cym	4	52	39	0.07	
Roche's Point ...	29.58	51	NNW	5	bc	29.84	+ .56	40	38	- 11	NNW	2	8	3	54	39	0.04	
Pembroke ...	29.55	50	W	7	8	29.83	+ .52	48	44	- 5	W	4	cym	4	53	44	0.08	
Portishead ...	29.54	50	SW	4	o	29.87	+ .47	42	41	- 10	SSW	4	c	4	54	40	0.05	
Scilly ...																		
Plymouth ...	29.66	49	NNW	2	o	29.93	+ .41	42	41	- 10	W	1	o	*	54	42	-	
Hurst Castle ...	29.55	52	WSW	5	o	29.93	+ .49	50	46	- 1	WSW	3	bc	3	54	47	0.04	
Dover ...	29.55	50	SW	4	o	29.94	+ .28	43	41	- 2	W	3	8	3	57	41	0.25	
London ...	29.52	53	SW	4	or	29.92	+ .39	42	40	- 3	SSW	2	8	*	55	41	0.02	
Oxford ...	*	*	*	*	*	29.88	+ .41	43	41	- 3	WSW	1	8	*	54	40	0.05	
Cambridge ...	29.48	51	S	2	o	29.87	+ .32	38	37	- 5	SW	1	8	*	53	36	0.05	
Yarmouth ...	29.46	48	SSW	5	bc	29.81	+ .16	41	39	- 3	WSW	4	bc	3	49	39	0.28	
The Helder ...	*	*	*	*	*	29.74	- .10	46	43	+ 6	WSW	4	bc	*	*	*	0.04	
Cape Gris Nez ...	29.58	48	SSW	6	r	29.95	+ .28	48	45	+ 5	W	4	8	3	50	41	0.16	
Jersey ...	29.70	52	W	6	o	30.02	+ .43	50	48	- 3	SW	4	o	4	55	47	0.02	
Brest ...	29.82	34	W	4	8	30.00	+ .33	52	46	- 2	SSE	2	o	3	55	48	0.04	
L'Orient ...	29.65	30	NNW	4	r	30.06	+ .35	50	46	- 4	S	3	o	3	57	46	0.04	
Rochefort ...	29.88	55	W	3	o	30.05	+ .19	50	48	- 4	NE	2	o	3	60	46	0.16	
Biarritz ...	30.00	57	SSE	3	r	30.06	+ .15	54	52	o	E	2	o	3	57	46	0.32	
Corunna ...	*	*	*	*	*										*	*	*	
Brussels ...	*	*	*	*	*	29.97	+ .13	41	*	+ 1	SW	6	bc	*	*	*	0.04	
Charleville ...	*	*	*	*	*	30.01	+ .18	33	*	- 16	Z	o	3f	*	*	*	*	
Paris ...	29.73	47	S	3	o	30.07	+ .26	41	40	o	WSW	2	bc	*	*	*	0.12	
Lyons ...	*	*	*	*	*	30.15	+ .15	49	*	+ 3	SE	2	c	*	*	*	*	
Toulon ...	29.99	48	Z	o	o	30.19	+ .25	46	43	o	NNW	2	o	3	52	48	-	

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

	Bar.	Dry.	Wet.	Wind.	Wet.	Sea.		Bar.	Dry.	Wet.	Wind.	Wet.	Sea.
Skudesnaes ...	29.68	41	38	SE	8	o	Valencia ...	29.48	50	45	W	7	cym
Thurso ...	29.05	45	44	ESE	6	cym	Scilly ...						
Scarborough ...	29.30	44	44	SSE	7	o	London ...	29.45	55	53	SSW	4	bc
Greencastle ...	28.96	51	49	SW	4	o	Rochefort ...	29.80	55	54	WSW	3	o
Holyhead ...	29.25	51	50	WSW	3	o							

Mercury is recovering somewhat in the west and south-west, but still falls elsewhere. The depression still lies off the west of Scotland, and the wind is strong generally.

EXPLANATION OF COLUMNS.

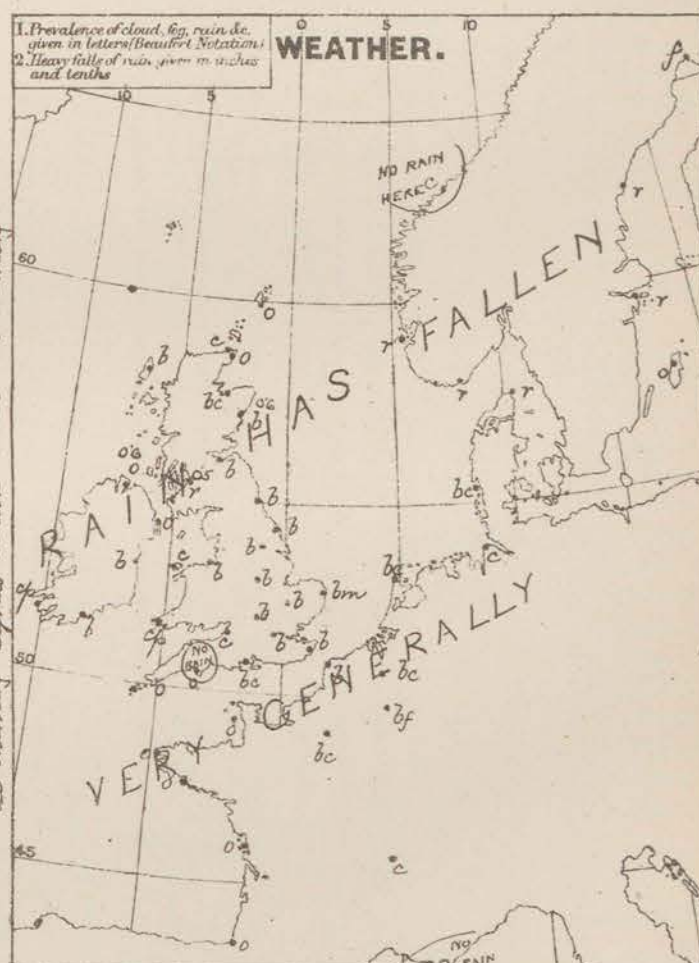
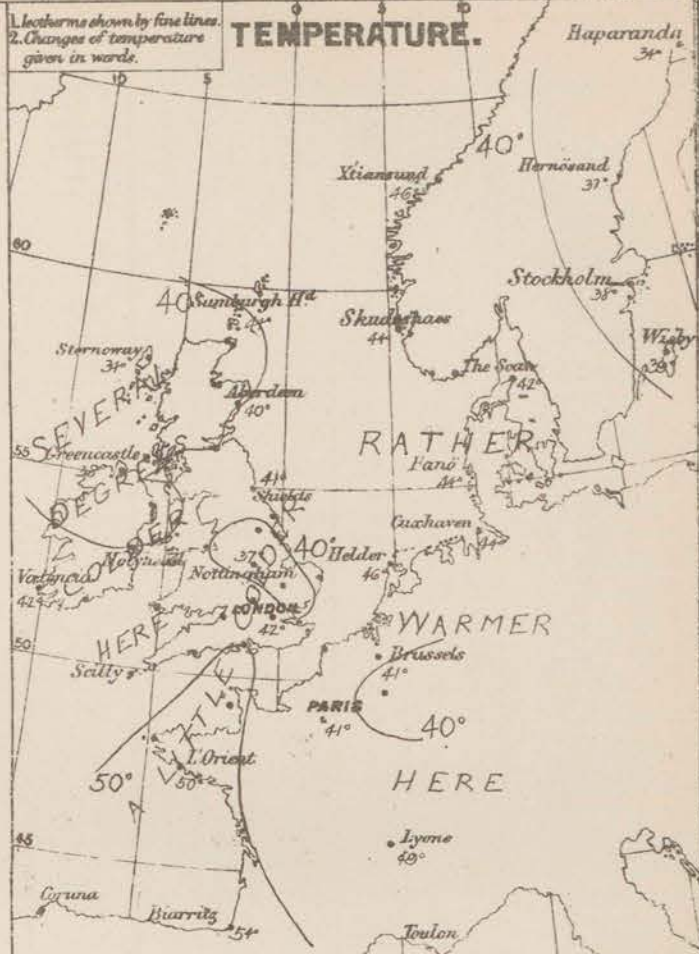
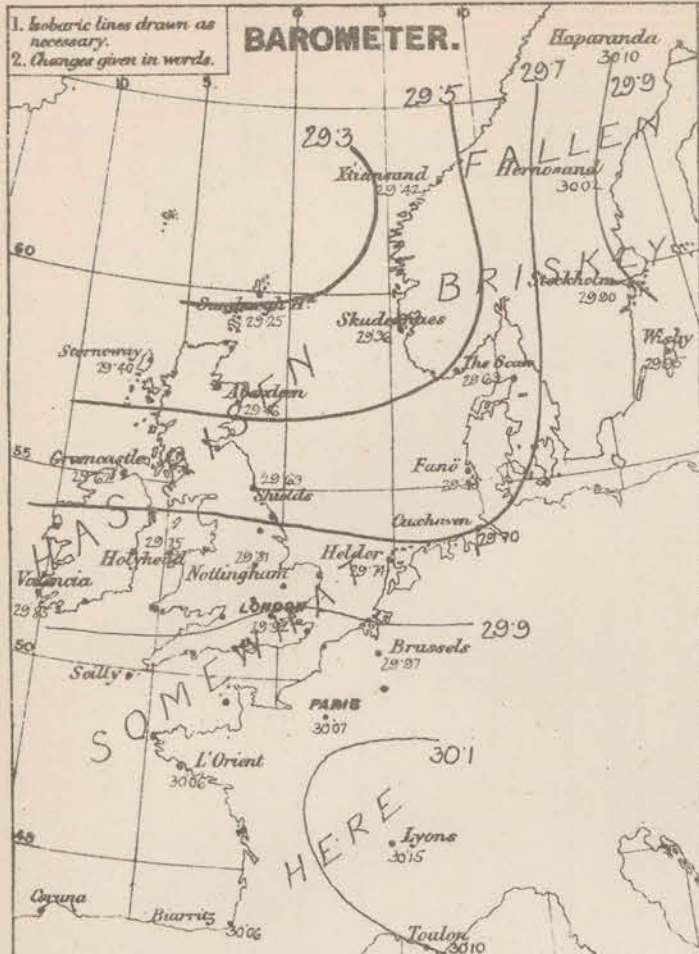
WEATHER.—Beaufort Scale is, b. blue sky; c. detached clouds; d. drizzling rain; f. fog; g. dark, gloomy; h. hail; l. lightning; m. misty (hazy); o. overcast; p. passing showers; q. squally; r. rain; s. snow; t. thunder; u. ugly, threatening; v. visibility, unusual transparency; w. dew.

* 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 7th Dec^r 1877.



REMARKS. Weather is very fine over nearly the whole of our Islands, but at a few of our north western stations the sky is overcast, and in the south west the weather is showery; in Denmark and Scandinavia rain is general. Hail occurred at Valentia and Stormway last night, and rain has fallen in all places. Temperature has risen on the eastern shores of the North Sea, but fallen at all our stations - several degrees in the west - it now varies from 36° to 44° over Scotland, from 35° to 42° over Ireland, and from 40° to 50° over England. In London the thermometer fell to 41° in the shade and to 32° in the snow last night. Wind is light or moderate from the W. over our coasts and over the Channel, but blows into S.E. and blows strongly, in Scandinavia and the Skager Rack. It rose to a fresh gale from W. in the west last night. Sea is rough in the north, slight or moderate elsewhere.

Barometrical Indications. Pressure has increased briskly over these Islands but at the Norwegian, Danish and North German stations it still decreases quickly. The lowest readings lie apparently to the N. of the Shetlands, while the barometer is equally high in the Gulf of Bothnia and the south of France.

Fogging. The warning signals hoisted in the west at 3pm Wednesday are still flying.

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

R. H. SCOTT.
Secretary.

DAILY WEATHER REPORT

DEC 8th

1877.

STATIONS.	† YESTERDAY EVENING.					8 A.M. TO DAY.										PAST 24 HOURS		
	Barometer at 35° F. and Sea Level.	Temp. in shade.	WIND.		Weather.	BAROMETER.		SHADE TEMP.			WIND.		Weather.	Sea. (0 to 9.)	SHADE TEMP.		Amount of Rainfall.	
			Dir.	Force. (0 to 15).		Reading at 370 ft. and Sea Level.	Difference from 3 a.m. yesterday.	Dry.	Wet.	Difference from 8 a.m. yesterday.	Dir.	Force. (0 to 15).			Max.	Min.		
Haparanda ...																		
Hernösand ...																		
Stockholm ...																		
Wisby ...																		
Christiansund ...	29.55	46	SSE	4	c	29.61	+ .19	40	38	— 6	NW	5	c	4	46	36	0.45	
Skudesnaes ...	29.67	43	SSW	6	c	29.50	+ .44	39	37	— 5	SSE	4	c	4	?	?	—	
Oxö (Xtiansand) ...	29.58	39	SSW	2	r	29.87	+ .30	35	35	— 8	NW	2	c	3	45	34	0.35	
Skagen (The Seaw) ...	29.65	40	SSW	4	b	29.85	+ .22	47	36	— 5	SW	2	b	0	43	34	0.08	
Fanö ...	29.84	44	SW	4	b	29.88	+ .30	39	39	— 5	Z	0	o	*	46	37	0.24	
Cuxhaven ...	29.93	4	SW	3	1	29.90	+ .20	41	41	— 3	SW	2	f	*	45	37	0.14	
Sumburgh Head ...	29.46	39	W	0	c	29.63	+ .38	40	37	— 4	SW	3	c	3	45	35	0.02	
Stornoway ...	29.50	34	NW	2	bc	29.55	+ .15	45	45	+ 11	SSW	6	r	5	45	30	?	
Thurso ...	29.50	34	SW	2	b	29.64	+ .27	36	35	— 2	S	1	r	3	41	30	0.01	
Wick ...	29.54	35	S	2	bc	29.68	+ .27	38	37	+ 2	S	2	o	2	40	31	—	
Nairn ...	29.57	34	Z	0	b	29.71	+ .25	38	36	+ 1	SW	1	b	1	40	33	—	
Aberdeen ...	29.58	35	S	1	b	29.77	+ .31	35	33	— 5	SW	2	o	1	41	31	—	
Leith ...	29.68	36	NW	3	b	29.85	+ .28	41	40	+ 1	SW	3	o	*	42	34	0.11	
Shields ...	29.73	39	W	3	bc	29.95	+ .32	40	38	— 1	W	2	bc	2	45	35	—	
Scarborough ...	29.78	40	NW	3	b	29.99	+ .31	37	36	— 3	NW	1	bc	2	43	34	—	
York ...	29.84	38	W	2	r	30.03	+ .30	39	38	— 1	SSW	1	b	*	45	34	0.06	
Nottingham ...	29.86	40	SSW	1	bc	30.11	+ .30	35	34	— 2	SW	1	b	*	43	31	—	
Ardrossan ...	29.69	42	W	3	c	29.86	+ .25	46	45	+ 4	SW	3	r	4	46	34	0.21	
Greencastle ...	29.70	35	SW	3	asp	29.83	+ .21	44	44	+ 6	SW	3	o	*	44	33	0.04	
Donaghadee ...	29.77	36	NW	3	b	29.91	+ .23	41	40	+ 6	NW	3	o	2	41	33	—	
Kingstown ...	29.86	41	W	4	b	30.02	+ .27	45	42	+ 5	W	4	o	3	45	34	0.01	
Holyhead ...	29.85	42	W	4	bc	30.06	+ .31	45	43	+ 2	NW	3	o	3	46	41	0.01	
Liverpool (Bidston) ...	29.84	40	SW	3	b	30.05	+ .29	43	42	+ 3	NW	4	o	3	45	39	0.09	
Valencia ...	29.96	44	W	3	bc	30.12	+ .27	45	45	+ 6	SW	5	cp	5	49	38	0.07	
Roche's Point ...	29.97	40	NW	3	bc	30.11	+ .27	46	44	+ 6	W	3	c	3	46	40	—	
Pembroke ...	29.91	46	NW	2	b	30.14	+ .31	49	45	+ 1	W	4	o	4	49	44	—	
Portishead ...	29.90	44	SW	3	c	30.15	+ .28	42	40	0	NW	2	bc	3	47	38	0.14	
Scilly ...																		
Plymouth ...	29.94	45	Z	0	o	30.22	+ .29	34	34	— 8	W	1	b	*	48	34	0.02	
Hurst Castle ...	29.87	49	NW	2	o	30.16	+ .23	42	40	— 8	W	2	b	2	?	39	0.02	
Dover ...	29.93	48	W	3	c	30.14	+ .20	39	37	— 4	NW	3	b	2	49	38	0.09	
London ...	29.92	48	SSW	2	o	30.14	+ .22	36	35	— 6	NW	2	bc	*	49	35	0.12	
Oxford ...	*	*	*	*	*	30.15	+ .27	38	36	— 5	NW	1	b	*	47	37	0.10	
Cambridge ...	29.92	44	S	1	r	30.12	+ .25	34	33	— 4	S	1	bc	*	45	33	0.14	
Yarmouth ...	29.90	43	SW	2	fm	30.06	+ .25	35	34	— 6	NW	2	bc	2	44	33	0.16	
The Helder ...	*	*	*	*	*	29.93	+ .19	45	41	— 1	NW	3	c	*	*	*	0.51	
Cape Gris Nez ...	29.98	46	S	2	o	30.12	+ .17	43	41	— 5	NW	4	b	3	52	42	0.24	
Jersey ...	29.98	47	SW	2	o	30.27	+ .25	43	40	— 7	W	3	b	3	50	42	0.12	
Brest ...	29.95	52	E	2	o	30.26	+ .26	46	43	— 6	N	2	bc	4	52	42	0.16	
L'Orient ...	29.90	46	ENE	4	r	30.32	+ .26	43	41	— 7	NE	1	bc	3	52	41	0.63	
Rocheport ...	29.93	34	S	3	r	30.28	+ .23	45	45	— 5	NW	3	bc	3	61	40	—	
Biarritz ...	30.01	59	S	3	c	30.30	+ .24	54	52	0	NE	3	o	3	63	50	0.08	
Corunna ...	*	*	*	*	*										*	*	*	
Brussels ...	*	*	*	*	*	30.06	+ .09	35	*	— 3	NW	4	b	*	*	*	*	
Charleville ...	*	*	*	*	*	30.03	+ .02	40	*	+ 7	NW	4	c	*	*	*	*	
Paris ...	30.00	47	SE	L	b	30.20	+ .13	43	40	+ 2	W	3	c	*	*	*	0.35	
Lyons ...	*	*	*	*	*	30.16	+ .01	34	*	+ 5	S	4	c	*	*	*	*	
Toulon ...	30.13	48	SW	1	b	30.06	+ .04	52	52	+ 6	SW	5	r	4	54	46	0.04	

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

Bar.	Dry.	Wet.	Wind.	Wes.	Sea.	Bar.	Dry.	Wet.	Wind.	Wes.	Sea.				
Skudesnaes ...	29.47	43	41	NW	6	r	5	Valencia ...	29.93	47	40	N	4	bc	5
Thurso	29.47	39	37	NW	2	b	4	Scilly							
Scarborough ...	29.78	42	40	NW	3	bc	2	London	29.94	49	46	SW	1	m	*
Greencastle ...	29.69	35	35	SW	2	o	*	Rocheport ...	29.88	54	52	S	3	o	3
Holyhead	29.83	45	42	NW	4	c	3								

Pressure is increasing slightly generally. The winds are light from West.

EXPLANATION OF COLUMNS.

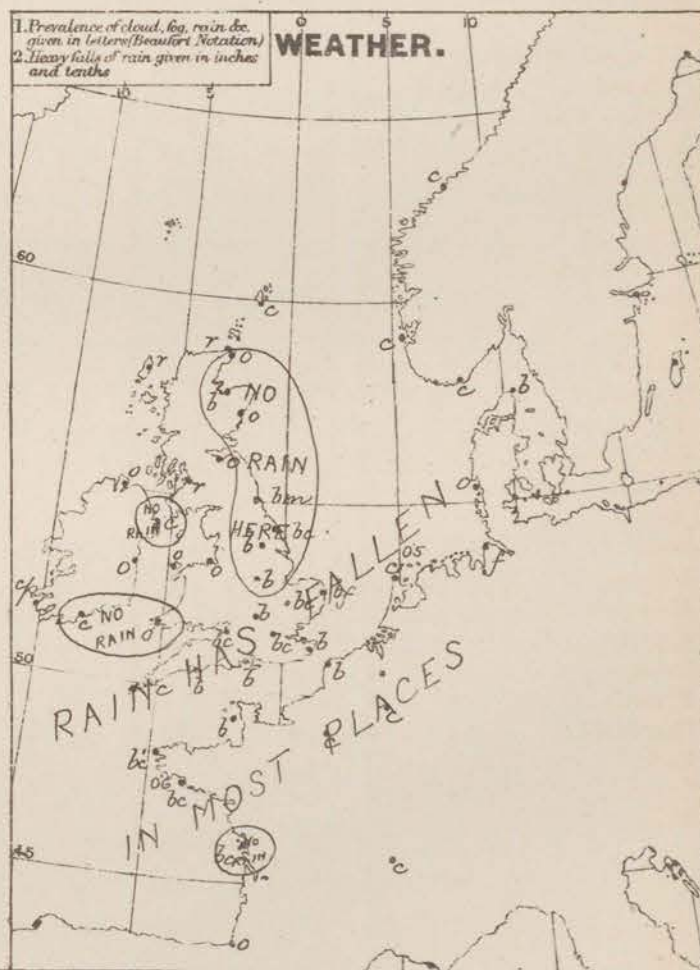
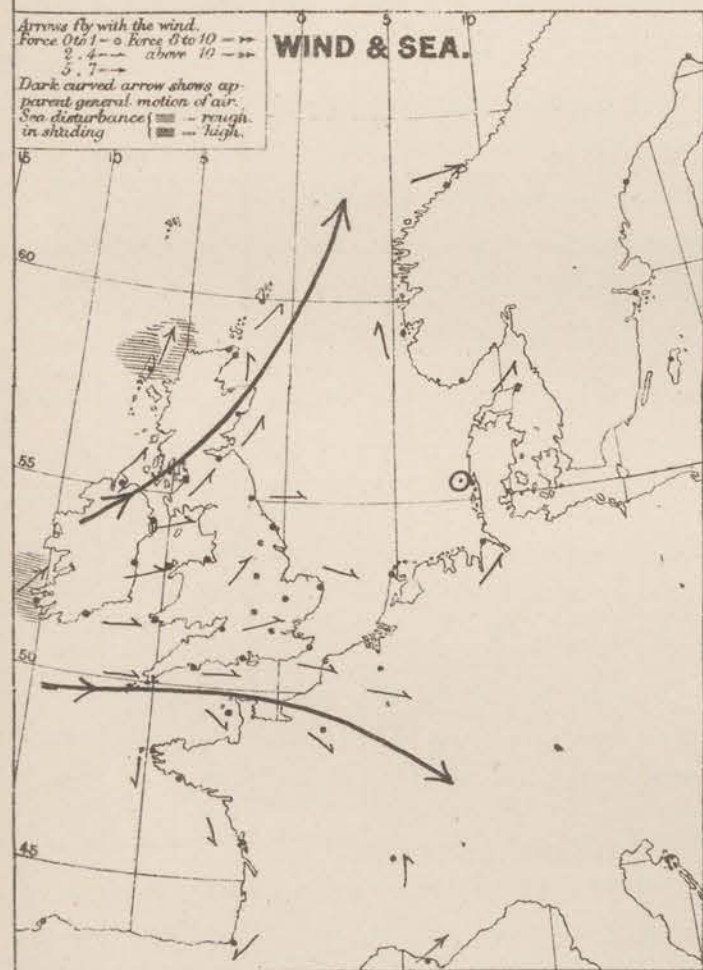
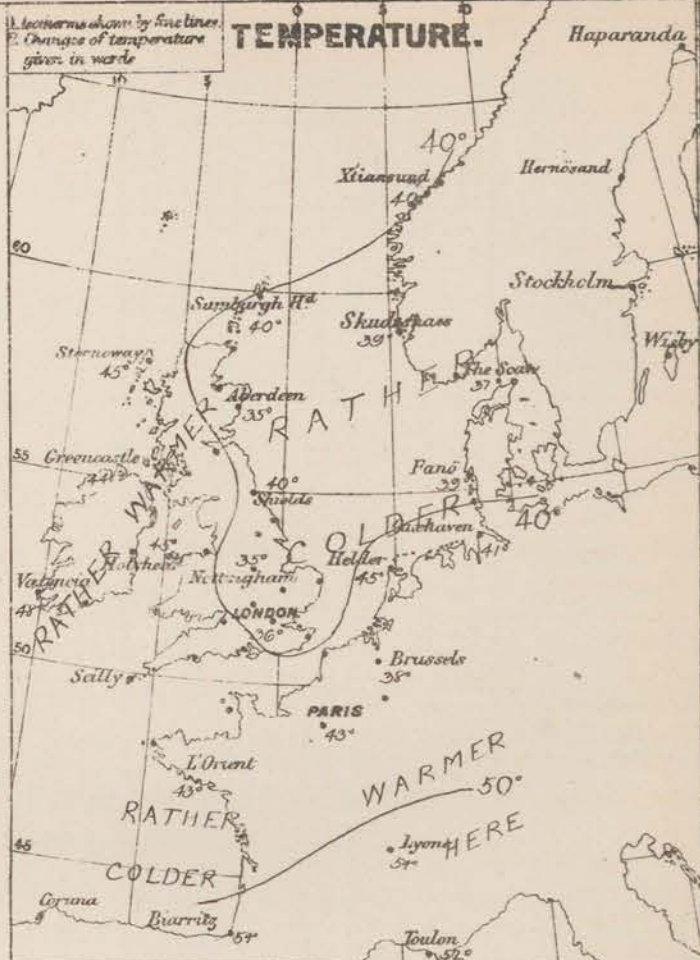
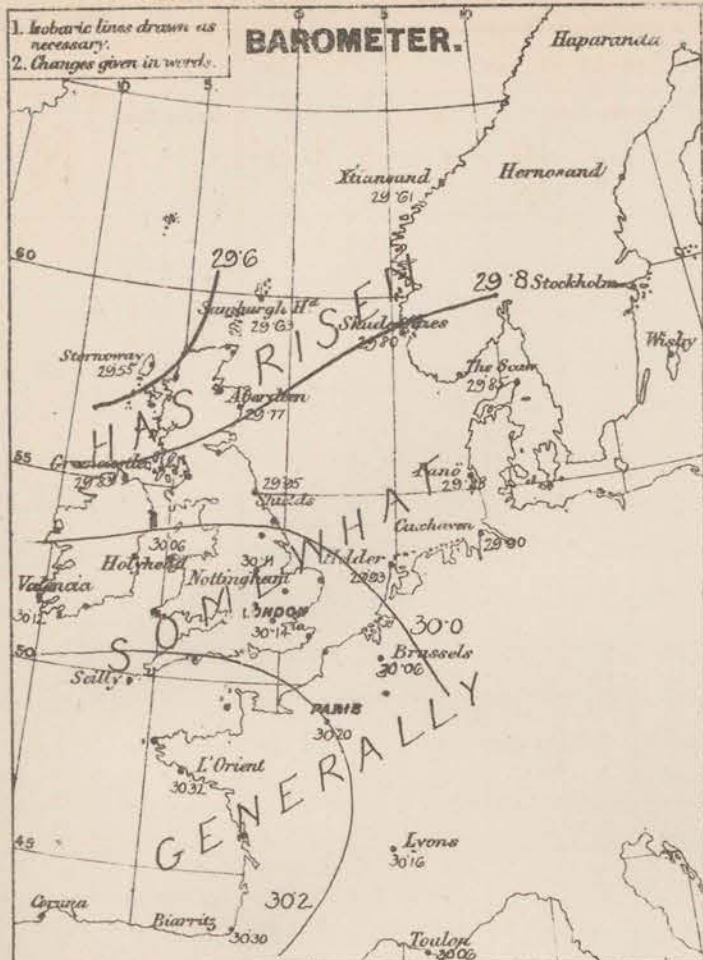
WEATHER.—Beaufort scale is, b. blue sky; c. detached clouds; d. drizzling rain; f. fog; g. dark, gloomy; h. hail; l. lightning; m. misty (hazy); o. overcast; p. passing showers; q. squally; r. rain; s. sea w.; t. thunder; u. ugly, threatening; v. visibility, unusual transparency; w. dew.

* 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 the direction changes with the sun, and to "back" when it shifts in the opposite direction.

WEATHER CHARTS *for 8 a.m. on Saturday 8TH DEC^R 1877.*



REMARKS. Breathes is very fine over England and the greater part of France but over Ireland, Scotland and Norway the sky is overcast or very cloudy. At Valencia the weather is showery, and in the west of Scotland rain is falling; on the east coast of England some fog or mist is reported. Rain fell yesterday at most of the southern and western stations, snow at Greenacastle and Leith, hail at Holyhead. Temperature has decreased several degrees over the east and south of England and north-west of France but has increased in the west - most at Kongsuay; it now varies from 35° to 46° over Scotland, from 41° to 48° over Ireland and from 34° to 49° over England; in London the thermometers in the shade fell to 35° and that on the grass to 28° last night. Wind is W to NW over England, the Channel and France, but has backed to SW in the west and north; it is light except in the extreme west. Sea is slight or smooth except near the Hebrides and off the west of Ireland.

Barometrical Indications. - Pressure is increasing in all parts of Western Europe, the change being very uniform over these Islands. Readings are highest over the Bay of Biscay, and lowest to the NW. of Scotland.

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^r 2nd to DEC^r 8th 1877.

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

The weather during this week has been changeable but no very serious atmospheric disturbance has reached our coasts. At first pressure was highest over Scandinavia, lowest over the Mediterranean, and NE^{ly} to N^{ly} breezes, with cloudy weather, accompanied by drizzling rain in the E., prevailed till the 5th. On that day a rapid fall of the mercury occurred in Ireland, and a rather deep depression passed NE^{ly} up our NW^{ly} coasts, giving us strong squally, S^{ly} winds and rain. On Friday the 7th the barometer had recovered again the wind was N^{ly} generally and the weather fine, and these conditions continued during Saturday, over the greater part of the British Isles, though in the N. the weather began to look unsettled again towards the evening. Temperature has changed considerably. Rain has fallen on most days, though at first it was merely a drizzle and scarcely measurable in amount.

DEC^r 2nd The mercury was rising over the whole of W^m Europe, the increase being brisk generally, and in the NE. it had amounted to about an inch in the 24 hours. Pressure was highest (30.3 ins.) over the Gulf of Bothnia, and lowest (29.7 ins.) over the Mediterranean. Wind was NE^{ly} over the Netherlands, and on both shores of the North Sea, but drew into N. on our NW^m coasts, over the Channel and Bay of Biscay. It was moderate or light at nearly all stations. Temperature had fallen slightly both in the N. of Norway, N. of France, and N. of Scotland, risen elsewhere. Weather was fine over the British Isles, but cloudy or dull on the Continent, with rain at Lyons and Brest, thunder at Biarritz. In the evening pressure was still increasing everywhere, readings were very uniform in the N. but slight gradients for NE^{ly} winds existed in the S. and SE.

DEC^r 3rd The general distribution of pressure was very similar to that of the previous day, the highest readings being again found over Scandinavia, the lowest over the Gulf of Lyons. The mercury was still rising in most places but in the extreme N. a slight fall was reported. The winds remained NE^{ly} over all the E^m and S^m stations, and N^{ly} in the SW., but in the N. of Ireland and Scotland, a light S^{ly} breeze had sprung up. Temperature had risen over N. Germany, and on our extreme NW^m coasts, but had fallen elsewhere. Weather was locally fine in the NE. of Scotland, and at some of the SW^m stations, dull or very cloudy in all other places. Drizzling rain was falling in the SE. During the day pressure began to decrease more briskly in the N., and the decrease extended to all coasts.

DEC^r 4th The mercury was rising slightly in the SW. of France, falling over the whole of these islands and their neighbourhood. It was still highest over the Baltic, and lowest in the SE. of France, but another area of low pressure was appearing in the West. Wind continued NE^{ly} over the North Sea and greater part of England, N^{ly} over France, but at the Scotch and Irish stations it was S^{ly} though very light. Temperature had changed irregularly. Weather was cloudy or dull with fog in many places, and rain in the N. Later Reports^{still} showed pressure decreasing everywhere, though the change was not large.

DEC^r 5th A further fall of the mercury was reported from all places except the east and north^{west} of France, the changes, however, continued small and readings had become very uniform though still rather higher over Sweden, and lower over the Mediterranean than elsewhere. Wind was consequently very light and varied considerably in direction, though still retaining a generally NE^{ly} direction in the SE., and S^{ly} in the N. and N. Temperature had risen slightly over France, and on our NW^m coasts, fallen in the east and south. Rain was falling over the Bay of Biscay, and the weather was dull generally, with fog and mist in the east. In the latter part of the day the barometer fell rapidly at Valencia, the wind became more S^{ly} at the same time increasing to a fresh or moderate gale in the S. of Ireland, and a large depression appeared to be approaching

our western coasts.

DEC^r 6th The mercury still fell over the whole of western Europe the change varying from 0.9 ins. in the N.H. of these Islands, and to less than 0.1 ins. in Denmark and North Germany. A deep depression lay off the N. of Scotland, (Greenock 28.99 ins.) and the highest readings were reported from eastern Europe. Gradients were steep and the winds which was N.W. in the S. of Ireland, and S.W. over Great Britain was fresh in force generally and increased to a gale in the N.E. of England, and east of Scotland. Temperature had risen in nearly all places the change being considerable in the S.H. Weather was dull or very cloudy, ^{with rain} at a great number of our stations. Rain had been general, and in the south of Ireland heavy. During the day the depression moved N.E. (Stornoway 28.71 6 PM) and the wind increased to a heavy gale in the Shetlands, while in the N. of England, where it had veered to N., a fresh gale was experienced.

DEC^r 7th A brisk recovery in pressure ^{had} occurred over these Islands and France but in the countries to the eastward of the North Sea the barometer still fell. The depression had continued its course N.E. and its centre lay apparently to the N.W. of the Shetlands, (29.25 ins.) while readings were equally high (30.1 ins.) in Lapland, and over central France. Winds was N.W. over these Islands and the Netherlands, S.W. in Scandinavia; it was light or moderate on most coasts, but blew strongly in the West of Norway. Temperature had risen over Norway, Denmark, and North Germany, fallen elsewhere - quickly in the N. - Weather was fine over the greater part of these Islands, but dull in West of France, and wet at many of the Scandinavian stations. In the evening pressure was still increasing on our coast, but was decreasing over the Bay of Biscay, where a depression had been formed and rain was falling.

DEC^r 8th The depression over the Bay of Biscay had entirely disappeared, and the barometer had risen at all places except Toulon. Readings were highest in the S.H. of France, (Biarritz 30.80 ins.) and lowest off the N.H. of Scotland (Stornoway 29.55 ins.). The wind was S.W. on our extreme north and west coasts, but was N.W. in other parts of the Kingdom, and drew into N.W. in France. It was light or moderate except at Valentia and Stornoway. Temperature had fallen in the east and south, risen in the N. sky was clear in the southeast, more or less cloudy elsewhere, and at Valentia the weather was showery. In the evening the barometer was beginning to fall again at Valentia, but elsewhere pressure was not affected.

Meteorological Office,

116, Victoria Street, Westminster, S.W.

ROBERT H. SCOTT, Secretary.

DAILY WEATHER REPORT

DEC. 9TH

1877.

STATIONS.	† YESTERDAY EVENING.						8 A.M. TO DAY.										PAST 24 HOURS.		
	Barometer at 8.30 P. and Sea Level.	Temp. in shade.	WIND.		Weather.	BAROMETER.		SHADE TEMP.			WIND.		Weather.	Sea. (0 to 9.)	SHADE TEMP.		Amount of Rainfall.		
			Dir.	Force. (0 to 12.)		Reading at 8.30 P. and Sea Level.	Difference from 8 a.m. yesterday.	Dry.	Wet.	Difference from 8 a.m. yesterday.	Dir.	Force. (0 to 12.)			Max.	Min.			
Haparanda ...	29.87	35	S	4	r	29.89		35	35		S	4	o	*	36	34	0.12		
Hernösand ...	29.97	35	S	2	o	30.00		34	33		S	6	c	*	*	*	—		
Stockholm ...	30.09	37	WSW	4	o	30.13		36	35		WSW	2	b	*	*	*	—		
Wisby ...	30.17	38	WSW	4	o	30.23		40	39		W	6	o	*	*	*	—		
Christiansund ...	29.67	42	SSE	3	c	29.66	+ .05	48	42	+ 8	SW	7	c	5	?	39	—		
Skudesnaes ...	29.99	43	S	6	o	30.00	+ .20	46	46	+ 7	SSE	6	r	5	?	39	0.24		
Oxö (Xtiansand) ...	30.10	35	N	4	o	30.12	+ .31	44	44	+ 9	SSW	4	f	3	?	32	0.08		
Skagen (The Seaw) ...	30.15	39	SW	3	o	30.22	+ .37	41	39	+ 4	SW	4	o	3	41	32	—		
Fanö ...	30.23	38	SW	1	o	30.27	+ .39	38	38	— 1	S	2	c	*	41	32	—		
Cuxhaven ...	30.16	4	SW	2	r	30.32	+ .42	34	34	— 7	SW	1	c	*	41	28	0.05		
Sumburgh Head ...	29.58	47	SW	6	r	29.70	+ .07	47	45	+ 7	SW	5	c	5	49	43	0.37		
Stornoway ...	29.66	48	SW	7	r	29.64	+ .09	48	47	+ 3	SSW	7	r	6	49	45	0.21		
Thurso ...	29.63	49	SW	3	o	29.71	+ .07	46	44	+ 10	SW	4	c	4	50	35	0.10		
Wick ...	29.73	47	S	2	o	29.76	+ .08	47	45	+ 9	SW	2	b	2	48	37	0.05		
Nairn ...	29.73	49	SW	2	c	29.78	+ .07	46	44	+ 8	SW	2	b	1	50	37	—		
Aberdeen ...	29.82	45	Z	0	o	29.87	+ .10	45	43	+ 10	SSW	3	b	1	49	35	0.05		
Leith ...	29.93	48	SW	5	o	29.95	+ .10	47	44	+ 6	SW	1	c	*	49	40	—		
Shields ...	30.02	48	WSW	3	o	30.05	+ .10	42	40	+ 2	SSW	2	o	2	48	39	0.03		
Scarborough ...	30.13	44	W	4	r	30.10	+ .11	38	37	+ 1	SW	1	o	1	45	37	0.04		
York ...	30.13	45	WSW	1	m	30.12	+ .09	37	37	— 2	SW	1	c	*	45	35	0.04		
Nottingham ...	30.19	44	SW	3	o	30.16	+ .05	38	38	+ 3	SSW	1	c	*	45	35	0.01		
Ardrossan ...	29.97	48	SSW	3	o	29.90	+ .04	48	47	+ 2	S	5	r	5	49	46	0.12		
Greencastle ...	29.90	46	SW	2	o	29.79	— .04	47	46	+ 3	SSW	2	r	*	47	43	0.08		
Donaghadee ...	30.03	44	SW	6	o	29.90	— .01	48	48	+ 7	SSW	6	r	4	48	40	0.13		
Kingstown ...	30.07	47	Z	0	b	29.96	— .06	49	48	+ 4	S	5	o	3	50	43	—		
Holyhead ...	30.12	48	SW	5	b	30.03	— .03	47	46	+ 2	SSW	5	o	4	49	44	—		
Liverpool (Bidston) ...	30.12	46	SW	2	o	30.09	+ .04	42	42	— 1	ESE	1	o	1	48	40	—		
Valencia ...	30.08	50	SSW	5	o	29.82	— .30	53	52	+ 5	S	8	og	7	55	47	0.46		
Roche's Point... ..	30.15	48	SW	4	o	29.96	— .15	50	50	+ 4	S	6	r	5	51	46	0.30		
Pembroke ...	30.20	49	SW	4	o	30.08	— .06	49	47	— 0	S	6	c	4	50	48	—		
Portishead ...	30.22	46	W	4	o	30.15	— .00	46	44	+ 4	SSW	4	b	4	48	39	0.04		
Scilly ...	30.27	46	Z	0	o	30.16	— .06	46	44	+ 12	SE	3	b	*	48	34	—		
Plymouth ...	30.24	49	WSW	2	o	30.20	+ .04	49	45	+ 7	SSW	4	b	4	50	41	—		
Hurst Castle ...	30.29	43	WSW	3	b	30.27	+ .13	48	46	+ 9	SSW	3	b	3	48	38	—		
Dover ...	30.28	46	W	2	c	30.23	+ .09	45	43	+ 9	S	2	o	*	49	40	—		
London ...	30.28	46	W	2	c	30.20	+ .05	40	39	+ 2	S	1	b	*	47	38	—		
Oxford ...	30.24	38	S	1	b	30.22	+ .10	36	36	+ 2	S	1	b	*	50	34	—		
Cambridge ...	30.22	41	W	1	b	30.24	+ .18	41	40	+ 6	SW	2	b	2	42	33	—		
Yarmouth ...	30.22	41	W	1	b	30.27	+ .24	37	37	— 8	S	1	b	*	*	*	—		
The Helder ...	30.27	46	W	2	b	30.28	+ .16	43	41	— 0	SSE	2	b	1	48	41	—		
Cape Gris Nez ...	30.35	48	Z	0	b	30.26	— .01	44	42	+ 1	SE	3	b	3	51	43	—		
Jersey ...	30.30	52	S	3	b	30.16	— .10	45	43	— 1	SE	4	o	4	52	43	—		
Brest ...	30.33	40	E	1	b	30.20	— .12	41	41	— 2	ESE	3	b	3	48	39	—		
L'Orient ...	30.28	54	E	2	o	30.18	— .10	41	39	— 4	E	5	b	3	55	41	—		
Rochefort ...	30.25	57	NE	1	b	30.05	— .25	43	41	— 11	ENE	3	o	3	?	39	—		
Biarritz ...	30.25	57	NE	1	b	30.05	— .25	43	41	— 11	ENE	3	o	3	?	39	—		
Corunna ...	30.03	44	W	2	b	30.03	+ .13	37	37	— 0	NE	?	o	1	*	*	*		
Brussels ...	30.32	44	W	2	b	30.32	+ .28	35	35	— 3	SW	3	c	*	*	*	—		
Charleville ...	30.12	44	W	2	b	30.12	+ .09	31	31	— 9	E	3	f	*	*	*	—		
Paris ...	30.34	44	WSW	2	b	30.32	+ .12	32	31	— 11	SE	1	f	*	*	*	—		
Lyons ...	30.34	44	WSW	2	b	30.32	+ .12	32	31	— 11	SW	2	b	*	*	*	—		
Toulon ...	29.96	48	W	8	b	30.02	— .04	48	39	— 4	WSW	4	b	4	55	?	0.04		

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

	Bar.	Dry.	Wet.	Wind.	Wen.	Sea.		Bar.	Dry.	Wet.	Wind.	Wen.	Sea.		
Skudesnaes ...	29.95	42	40	S	5	c	4	Valencia	30.11	50	47	SW	5	c	4
Thurso	29.61	42	42	S	2	r	3	Scilly							
Scarborough ...	30.06	44	43	W	2	f	2	London	30.24	47	44	WSW	2	b	*
Greencastle ...	29.87	47	45	SW	3	o	*	Rochefort ...	30.30	48	46	NNW	2	o	3
Holyhead	30.11	48	45	SW	4	c	2								

The mercury is now falling slightly both at Valencia and Thuro, but still rises elsewhere. Wind continues fresh from SW in the N. of Ireland, but the sea has gone down.

EXPLANATION OF COLUMNS.

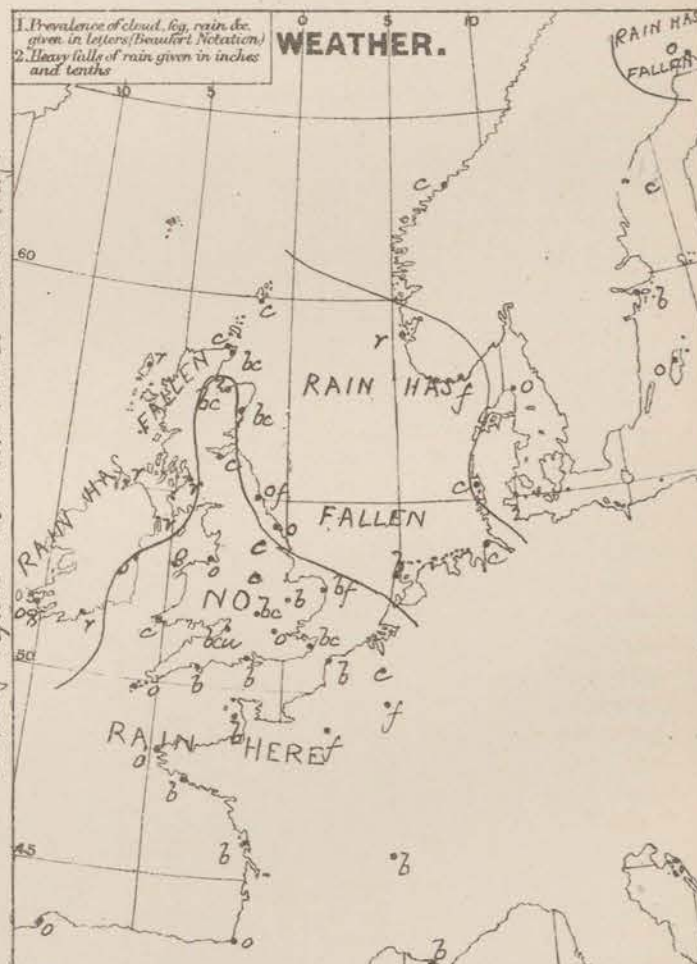
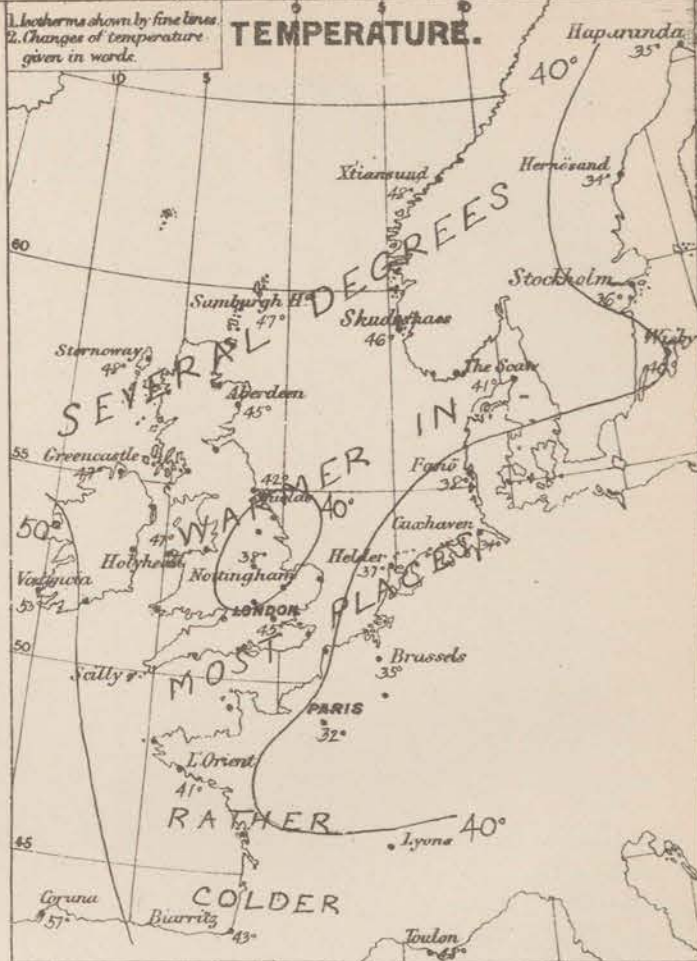
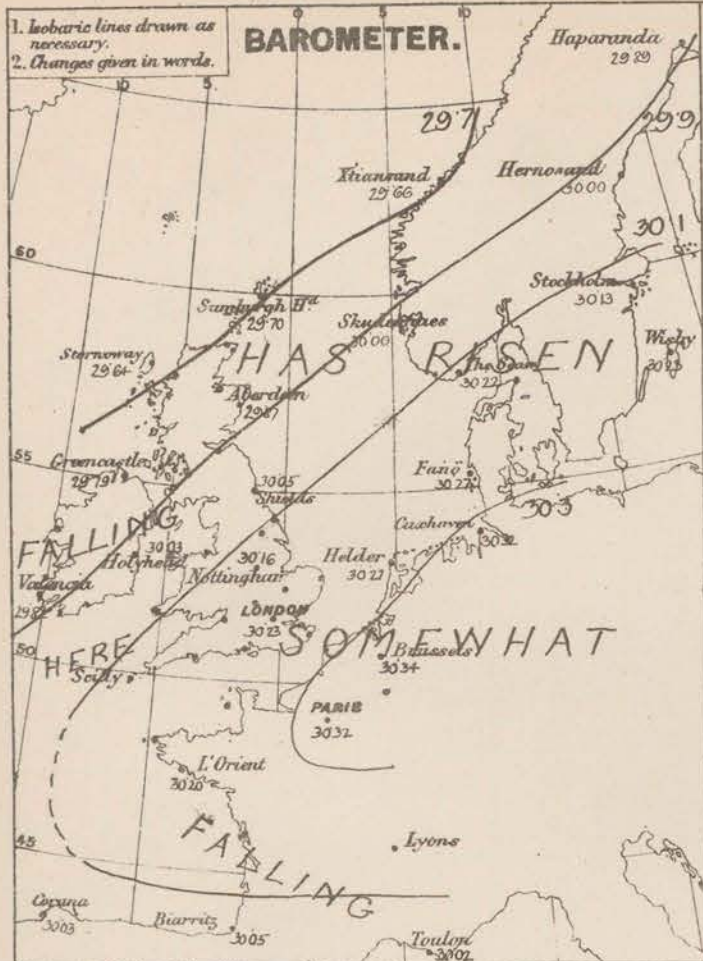
WEATHER.—Beaufort scale is, b. blue sky; c. detached clouds; d. drizzling rain; f. fog; g. dark, gloomy; h. hail; l. lightning; m. misty (hazy); o. overcast; p. passing showers; q. squally; r. rain; s. snow; t. thunder; u. ugly, threatening; v. visibility, unusual transparency; w. dew.

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

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

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

WEATHER CHARTS for 8 a.m. on Sunday 9th DEC^r 1877.



Note A dotted line is drawn round those coasts on which the warning signals have been painted this manner.

REMARKS. Weather is fine over France and the east and south east of England, but over western and northern coasts cloudy or overcast skies and rain are reported. Fog prevails in the north east of France, and at Shields and Yarmouth. Rain was measured this morning at nearly all our western and northern stations and also on the shores of the North Sea, but, with the exception of Valentia (where 0.46 in. was reported) the amounts have been small. Temperature has fallen a few degrees in France (and is now down to 32° F. in Paris) but risen over the whole of these Islands and also in Scandinavia. The weather in Paris is now 16° warmer than at St. Mary's and Christiansund, and 21° warmer than at Valentia. Wind is strong from the S.W. on our west and north west coasts, but light from the N. in the east; moderate E. breezes have set in over France. A fresh S. gale is blowing at Valentia. Sea is high at Valentia, rough off the south west of Ireland and north of Scotland, moderate or slight elsewhere.

Barometrical Indications Pressure has risen somewhat to the E^2 and SE^2 of our Islands, and now stands as high as 30.30 ins. in the Netherlands, but on our west and south west coasts a brisk fall is in progress, and gradients for S^4 winds appear to be becoming steep.

Warnings - The following has been issued to our W. and N. coasts this morning: - "Barometer falling fast, beland, and S. wind rising. Hoist bull
"one - Sunday, 9:15 am."

Subscription for these Charts payable in 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^r 10th 1877.

STATIONS.	† YESTERDAY EVENING.					8 A.M. TO DAY.										PAST 24 HOURS.		
	Barometre at 320 F. Sea Level.	Temp. in shade.	WIND.		Weather.	BAROMETRE.		SHADE TEMP.			WIND.		Weather.	Sea. (0 to 9).	SHADE TEMP.		Amount of Rainfall.	
			Dir.	Force. (0 to 12).		Reading at 320 F. and Sea Level.	Difference from 8 a.m. yesterday.	Dry.	Wet.	Difference from 8 a.m. yesterday.	Dir.	Force. (0 to 12).			Max.	Min.		
Haparanda ...	29.82	34	SW	6	δ	29.96	+ .07	35	35	0	SW	2	bc	*	36	34	-	
Hernösand ...	30.02	33	SSW	2	δ	30.06	+ .06	28	28	- 6	Z	0	δ	*	*	*	-	
Stockholm ...	30	37	SW	2	0	30.19	+ .06	40	39	+ 4	SSW	2	0	*	*	*	-	
Wisby ...	30.27	35	W	4	δ	30.28	+ .05	37	36	- 3	W	6	δ	*	*	*	-	
Christiansund ...	29.79	44	S	2	bc	29.80	+ .01	44	42	- 4	ESE	1	0	5	45	39	0.04	
Skudesnaes ...	30.01	46	SSE	8	γ	30.07	+ .07	46	45	0	SSE	8	γ	5	46	?	-	
Oxö (Xtiansand) ...	30.15	44	SSW	4	γ	30.18	+ .03	44	43	0	SSW	4	0	3	45	43	0.08	
Skagen (The Seaw) ...	30.27	42	SW	4	0	30.25	+ .03	38	37	- 3	SSW	3	0	2	43	34	-	
Fanö ...	30.25	37	S	4	m	30.24	+ .03	33	32	- 5	SSE	4	δ	*	41	30	-	
Cuxhaven ...	30.36	4	S	4	γ	30.24	- 0	35	35	+ 1	SE	3	0	*	?	30	-	
Sumburgh Head ...	29.69	47	SSW	5	γ	29.69	- .01	47	46	0	SSW	5	γ	6	48	44	0.22	
Stornoway ...	29.60	48	SSW	1	γ	29.63	- .01	37	36	- 11	WNW	1	0	3	49	35	0.52	
Thurso ...	29.66	47	SSE	2	γ	29.67	- .04	46	46	0	WNW	3	γ	3	48	45	0.08	
Wick ...	29.67	49	S	4	γ	29.70	- .06	46	45	- 1	SW	2	0	2	49	45	0.04	
Nairn ...	29.67	50	SW	1	bc	29.70	- .08	47	45	+ 1	Z	0	bc	0	51	46	-	
Aberdeen ...	29.78	46	SSW	4	bc	29.81	- .06	44	43	- 1	SSW	5	0	3	47	44	-	
Leith ...	29.80	48	SW	5	0	29.81	- 4	47	46	0	SSW	2	0	*	49	45	0.02	
Shields ...	29.95	43	SSW	2	γ	29.91	- .04	42	41	0	SSW	4	m	2	45	41	0.26	
Scarborough ...	30.02	43	SSW	2	0	29.98	- .12	38	37	0	SSE	3	0	3	43	38	-	
York ...	30.03	43	SSW	1	0	29.97	- .15	39	38	+ 2	S	1	0	*	45	36	-	
Nottingham ...	30.09	43	S	2	δ	29.99	- .17	37	36	- 1	SSE	1	bc	*	48	37	-	
Ardrossan ...	29.78	49	S	5	γ	29.75	- .15	48	47	0	S	4	0	5	50	47	0.97	
Greencastle ...	29.70	48	SSW	3	0	29.72	- .07	45	44	- 2	WN	2	0	*	50	44	0.41	
Donaghadee ...	29.78	49	SW	6	0	29.75	- .15	48	48	0	SSW	6	γ	4	49	46	0.38	
Kingstown ...	29.84	50	SSE	4	0	29.76	- .20	50	49	+ 1	SSE	4	od	3	51	48	0.21	
Holyhead ...	29.92	48	SSW	3	0	29.83	- .20	45	43	- 2	SSW	2	γ	2	49	45	0.16	
Liverpool (Bidston) ...	29.96	45	SE	3	0	29.88	- .21	42	41	0	SE	3	γ	1	45	40	0.32	
Valencia ...	29.71	50	S	3	pom	29.79	- .03	45	44	- 8	Z	0	0	1	54	40	0.91	
Roche's Point ...	29.80	49	S	6	γ	29.78	- .18	46	44	- 4	WN	3	0	4	51	46	0.08	
Pembroke ...	29.94	49	S	6	0	29.82	- .26	48	47	- 1	SE	5	0	4	50	47	0.01	
Portishead ...	03	45	S	4	0	29.90	- .25	41	40	- 5	SE	3	0	3	51	39	-	
Scilly ...																		
Plymouth ...	30.01	48	S	1	0	29.86	- .20	45	43	- 1	ESE	3	0	*	50	44	-	
Hurst Castle ...	30.07	49	SSE	4	0	29.92	?	43	41	- 6	SE	2	0	2	?	?	-	
Dover ...	30.17	45	SW	3	δ	30.01	- .26	40	38	- 8	ESE	3	0	3	49	39	-	
London ...	30.14	46	SSE	2	δ	29.99	- .24	33	32	- 12	E	1	bc	*	51	32	-	
Oxford ...	*	*	*	*	*	29.97	- .23	37	36	- 3	Z	0	0	*	48	37	-	
Cambridge ...	30.14	41	S	1	δ	29.99	- .20	33	33	- 3	SSE	1	δ	*	50	33	-	
Yarmouth ...	15	44	S	2	bc	30.04	- .20	41	40	0	SSE	3	bc	3	46	39	-	
The Helder ...	*	*	*	*	*	30.11	- .16	36	35	- 1	SE	1	0	*	*	*	-	
Cape Gris Nez ...	30.17	39	S	1	δ	30.01	- .27	34	34	- 9	ESE	1	m	1	46	32	-	
Jersey ...	30.11	45	SE	3	δ	29.91	- .35	37	36	- 7	E	3	bc	3	46	37	-	
Brest ...	30.02	?	SSE	4	0	29.86	- .30	41	39	- 4	SE	3	δ	4	48	39	-	
L'Orient ...	30.07	44	ESE	3	bc	29.85	- .35	36	34	- 5	ESE	3	m	3	46	34	-	
Rochefort ...	30.00	50	E	5	δ	29.79	- .34	36	34	- 5	E	4	δ	3	61		-	
Biarritz ...	29.88	54	ENE	3	δ	29.75	- .30	46	45	+ 3	SSW	1	m	3	34	37	-	
Corunna ...	*	*	*	*	*										*	*	*	
Brussels ...	*	*	*	*	*	30.04	- .30	31	30	- 4	WNW	3	δ	*	*	*	-	
Charleville ...	*	*	*	*	*	29.96	- .36	35	*	+ 4	ESE	3	δ	*	*	*	*	
Paris ...	30.16	30	E	2	δ	29.92	- .40	34	33	+ 2	E	1	δ	*	*	*	-	
Lyons ...	*	*	*	*	*	29.96	?	39	*	?	W	2	g	*	*	*	*	
Toulon ...	30.02	48	SE	1	δ	29.94	- .08	46	30	- 2	SE	2	bc	3	52	46	-	

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

Bar.	Dry.	Wet.	Wind.	Woa.	Sea.	Bar.	Dry.	Wet.	Wind.	Woa.	Sea.
Skudesnaes ...	30.02	46	45	SSE	6	0	5	Valencia ...			
Thurso ...								Scilly ...			
Scarborough ...								London ...			*
Greencastle ...								Rochefort ...	30.03	48	45
Holyhead ...										E	5
										6	3

EXPLANATION OF COLUMNS.

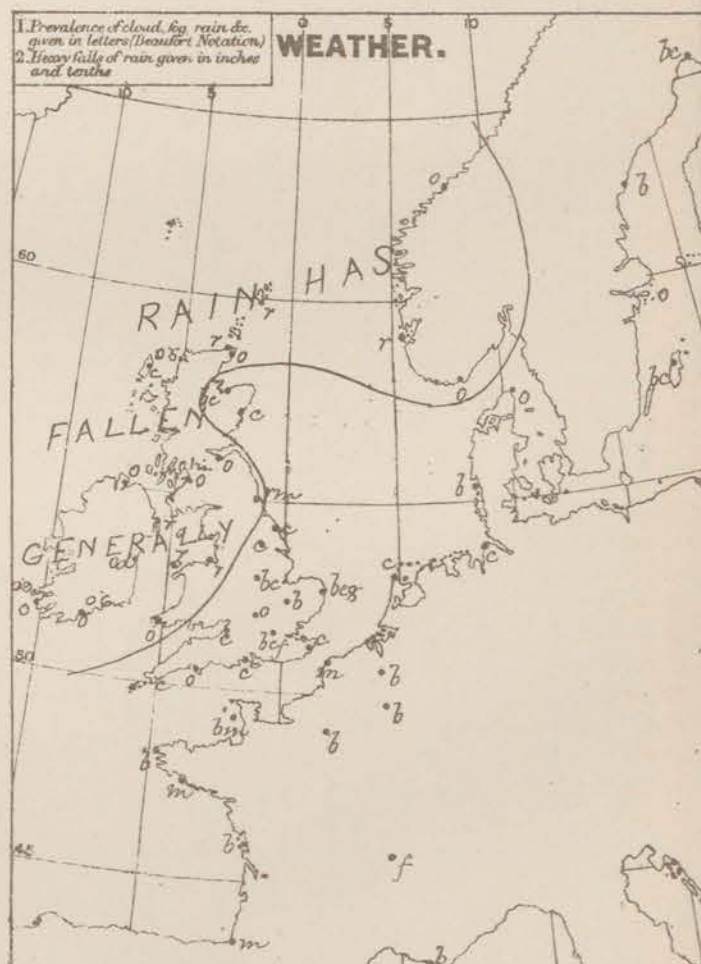
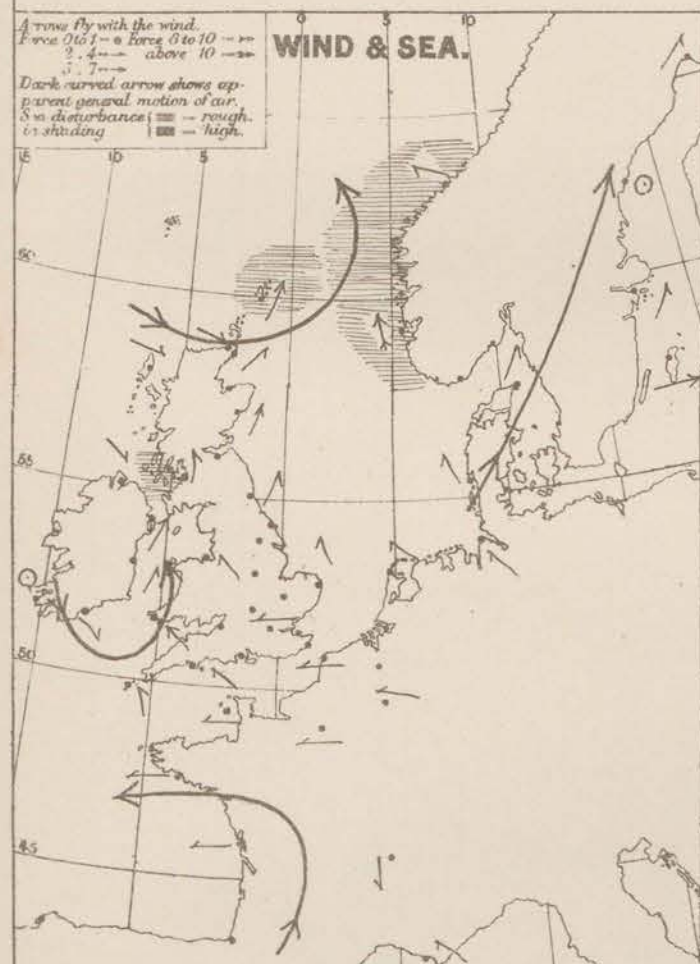
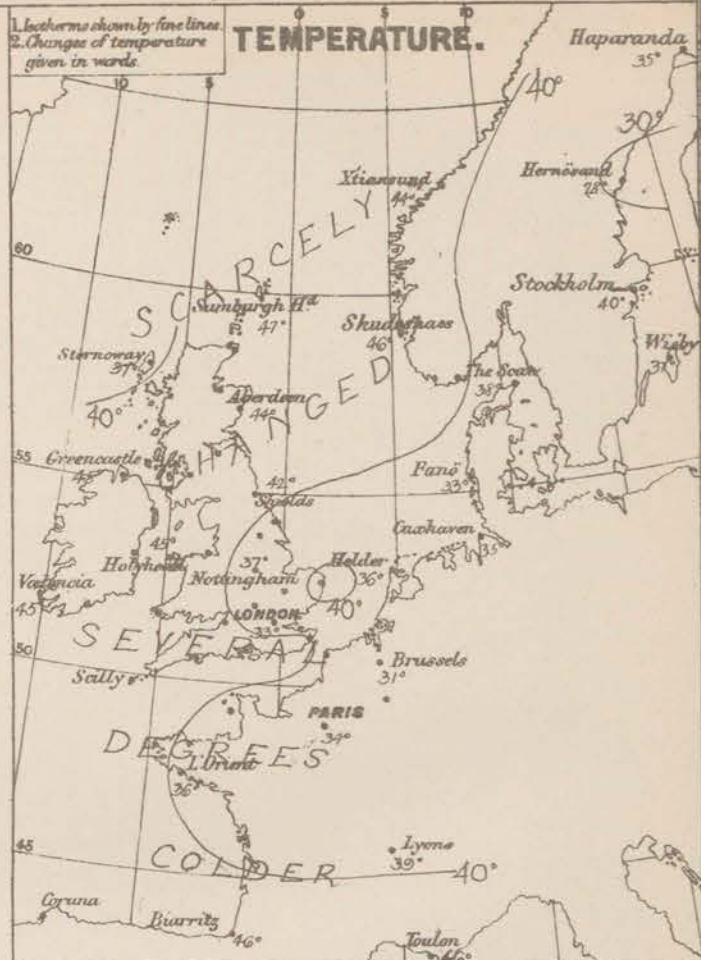
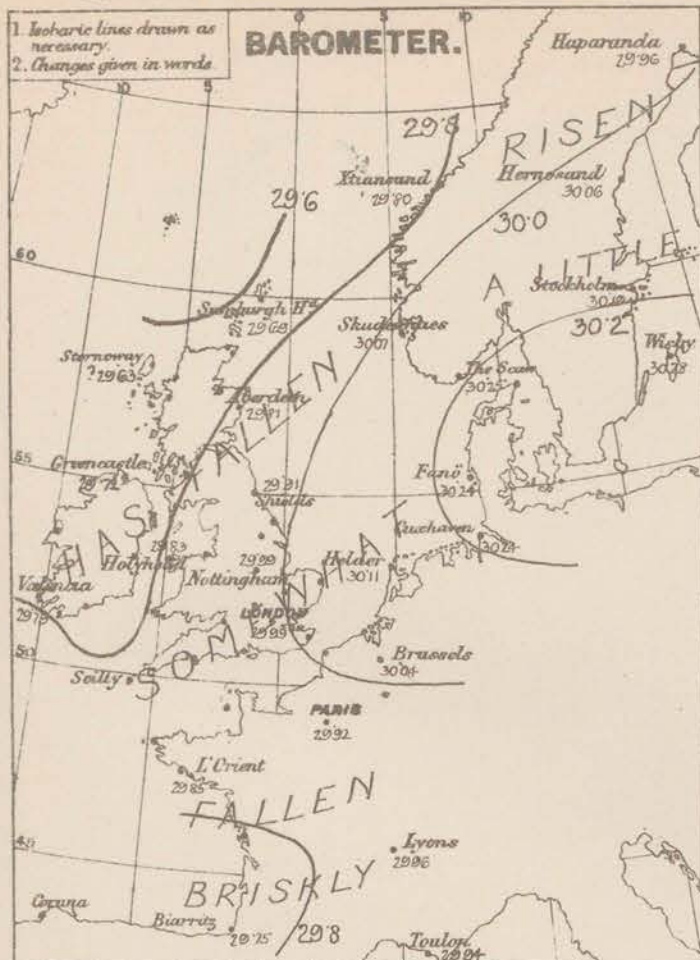
WEATHER.—Beaufort Scale is, b. blue sky; c. detached clouds; d. drizzling rain; f. fog; g. dark, gloomy; h. hail; i. lightning; m. misty (hazy); o. overcast; p. passing showers; q. squally; r. rain; s. snow; t. thunder; u. ugly, threatening; v. visibility, unusual transparency; w. dew.

* 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 Monday 10TH DEC^R 1877.



REMARKS. Weather is still dull except over France and our central and south eastern counties, where it is fine and foggy. Rain is falling at several of the western and northern ports. An inch of rain fell at Ardara yesterday, 0.9 in at Valenciennes, 0.6 in at Rochefort, 0.5 in at Stommes, and 0.4 in at Newcastle and Donaghadee. In the east and south east the weather was very fine. Temperature has fallen several degrees in the west and south, and is as low as 33° in the Lake and 24° on the grass in London this morning. In the north very little change has occurred, and Ardara is 15° warmer than London. Wind is light to moderate generally. It is E in France, SE over England, and W in Holland, while it is very light from the NW in the west and south of Ireland. At Amsterdam a fresh SE gale is reported. It blew a slight gale at the mouth of the Bristol Channel during the night, and a strong breeze from SW in the Irish Sea generally. Sea is smooth off the west of Ireland, slight on our south and east coasts, but rough at Skudenes.

Barometrical Indications. The barometer is rising at all the northern stations, while it is falling broadly in the south. Readings are consequently becoming more uniform, gradients for E winds are being formed in the north, while those for W winds are disappearing.

Warnings. The Bull line was hoisted on our west and north coasts yesterday, but has been lowered this morning.

No description 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.

DAILY WEATHER REPORT

DEC^r 11th

1877.

STATIONS.	† YESTERDAY EVENING.						8 A.M. TO DAY.										PAST 24 HOURS.		
	Barometer at 32° F. and Sea Level.	Temp. in shade.	WIND.		Weather.	Barometre. Reading at 32° F. and Sea Level.	SHADE TEMP.			WIND.	Weather.	Sea. (0 to 5.)	SHADE TEMP.		Amount of Rainfall.				
			Direc.	Force. (0 to 12).			Dry.	Wet.	Difference from 8 a.m. yesterday.				Max.	Min.					
Haparanda ...	29.98	38	SH	4	0	30.11	+ 15	34	33	- 1	SH	2	bc	*	?	28	-		
Hernösand ...	30.15	31	SH	2	6	30.18	+ 12	38	37	+ 10	S	2	e	*	*	*	-		
Stockholm ...	30.24	41	SSH	2	0	30.27	+ 08	36	34	- 4	SH	4	0	*	*	*	-		
Wisby ...	30.29	27	SH	4	0	30.30	+ 02	36	34	- 1	S	4	0	*	*	*	-		
Christiansund ...	29.97	43	E	3	7	29.80	- 00	42	41	- 2	SH	1	0	5	46	39	0.16		
Skudesnaes ...	30.10	40	SE	8	0	30.02	- 05	41	38	- 5	SE	8	0	6	46	?	-		
Oxö (Xtiansand) ...	30.25	38	S	4	0	30.19	+ 01	38	36	- 6	SSE	4	0	3	45	?	-		
Skagen (The Scaw) ...	30.28	38	SSH	2	0	30.26	+ 01	37	36	- 1	SSH	3	0	2	39	32	-		
Fanö ...	30.22	33	SSE	6	7	30.20	- 04	35	33	+ 2	S	4	0	*	36	32	-		
Cuxhaven ...	30.23	32	SSE	3	0	30.22	- 02	33	32	- 2	SSE	3	0	*	?	30	-		
Sumburgh Head ...	29.78	46	S	4	7	29.71	+ 02	42	40	- 5	H	3	c	3	47	38	0.74		
Stornoway ...	29.75	42	Z	0	7	29.64	+ 01	41	39	+ 4	SSH	4	0	4	42	35	0.03		
Thurso ...	29.73	44	Z	0	7	29.74	+ 07	35	35	- 11	S	1	8m	3	48	35	0.41		
Wick ...	29.75	46	S	2	7	29.76	+ 06	37	36	- 9	SH	2	0	0	46	35	0.38		
Nairn ...	29.75	44	Z	0	7	29.79	+ 09	35	33	- 12	Z	0	0	0	47	34	0.27		
Aberdeen ...	29.83	45	S	3	7	29.82	+ 01	36	35	- 8	SH	1	m	2	46	36	0.16		
Leith ...	29.85	44	S	3	7	29.88	+ 07	40	38	- 7	SSH	2	6	*	48	38	0.70		
Shields ...	29.94	40	SH	4	7	29.97	+ 06	36	35	- 6	H	2	of	2	43	35	0.08		
Scarborough ...	29.98	38	SSE	2	0	29.98	- 00	36	35	- 2	SSH	1	0	2	40	36	-		
York ...	29.99	39	SH	2	7	30.02	+ 05	36	36	- 3	S	1	0	*	41	35	0.03		
Nottingham ...	30.03	38	Z	0	0	30.06	+ 09	34	34	- 3	SSH	1	of	*	43	31	0.01		
Ardrossan ...	29.81	46	S	3	7	29.88	+ 08	45	42	- 3	SSH	3	6c	3	48	40	0.46		
Greencastle ...	29.76	45	S	1	0	29.78	+ 06	41	38	- 4	S	3	0	*	46	36	0.03		
Donaghadee ...	29.83	46	SSH	4	7	29.92	+ 17	36	36	- 12	S	3	6c	2	48	36	0.30		
Kingstown ...	29.89	47	H	1	0	29.99	+ 23	41	38	- 9	SSE	2	6c	2	49	39	0.15		
Holyhead ...	29.89	45	SSH	3	d	30.01	+ 18	42	40	- 3	SH	1	6c	1	47	41	0.26		
Liverpool (Bidston) ...	29.93	39	SE	4	6	30.02	+ 14	41	40	- 1	SE	1	0	1	44	37	0.16		
Valencia ...	30.06	45	NNH	4	qgh	29.84	+ 05	49	47	+ 4	S	8	7w	7	50	39	0.17		
Roche's Point ...	30.01	44	NNH	5	6c	30.00	+ 22	48	45	+ 2	SH	6	6c	5	50	38	-		
Pembroke ...	29.93	48	S	2	om	30.07	+ 25	44	44	- 4	SSH	1	6	3	48	42	0.19		
Portishead ...	29.97	39	SSH	3	0	30.06	+ 16	43	40	- 1	Z	0	6	1	44	35	-		
Scilly ...	29.97	39	SSH	3	0	30.06	+ 16	43	40	- 1	Z	0	6	1	44	35	-		
Plymouth ...	29.96	41	E	?	6	30.12	+ 26	38	37	- 7	NNH	2	6	*	50	37	0.01		
Hurst Castle ...	29.92	43	E	4	0	30.03	+ 13	40	39	- 3	? Z	?	0	0	44	36	-		
Dover ...	29.99	43	SE	3	6	30.07	+ 06	38	36	- 2	NE	1	c	1	?	37	-		
London ...	30.00	40	SE	2	6cm	30.06	+ 07	30	30	- 3	Z	0	6f	*	41	28	-		
Oxford ...	*	*	*	*	*	30.07	+ 10	35	34	- 2	Z	0	6f	*	41	32	-		
Cambridge ...	30.01	38	E	1	c	30.06	+ 07	30	30	- 3	SH	1	6	*	40	29	-		
Yarmouth ...	30.00	41	SE	4	6	30.05	+ 01	39	38	- 2	SSH	1	6	3	42	38	-		
The Helder ...	*	*	*	*	*	30.09	- 02	33	32	- 3	SE	1	6c	*	*	*	-		
Cape Gris Nez ...	29.99	34	E	2	6	30.08	+ 07	32	32	- 2	ESE	1	6	0	41	30	-		
Jersey ...	29.95	42	ENE	2	6	30.14	+ 23	45	44	+ 8	NNH	1	0	1	45	37	-		
Brest ...	29.98	?	N	2	0	30.18	+ 32	46	41	+ 5	N	4	6	3	46	36	0.08		
L'Orient ...	29.93	41	NE	3	6c	30.21	+ 36	45	45	+ 9	NNH	3	c	3	46	34	-		
Rochefort ...	29.83	46	NE	4	6c	30.13	+ 34	37	37	+ 1	N	4	0	3	54	32	-		
Biarritz ...	29.92	54	NNH	4	0	30.19	+ 44	52	48	+ 6	NNH	3	0	3	55	46	-		
Corunna ...	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	
Brussels ...	*	*	*	*	*	30.11	+ 07	30	*	- 1	? H	3	f	*	*	29	-		
Charleville ...	*	*	*	*	*	30.02	+ 06	30	*	- 5	SE	1	6	*	*	*	*		
Paris ...	29.93	37	E	3	6	30.11	+ 19	29	?	- 5	E	1	f	*	*	*	?		
Lyons ...	*	*	*	*	*	30.15	+ 19	45	*	+ 6	N	2	c	*	*	*	*		
Toulon ...	29.93	50	E	5	0	30.15	+ 21	48	43	+ 2	E	5	0	5	54	45	-		

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

	Bar.	Dry.	Wet.	Wind.	Wes.	Sea.		Bar.	Dry.	Wet.	Wind.	Wes.	Sea.		
Skudesnaes ...	30.12	43	40	SSE	8	0	6	Valencia	29.96	45	43	NNH	5	qgh	5
Thurso	29.77	44	44	Z	0	7m	3	Scilly							
Scarborough ...	29.97	40	39	SSE	3	c	3	London	29.97	40	37	SE	2	om	*
Greencastle ...	29.76	45	45	S	1	0	*	Rochefort ...	29.77	43	41	E	4	6	3
Holyhead	29.87	46	44	SSH	3	m	2								

The barometer is still rising briskly in Scotland, but falling a little in the S. of England. The centre of a small well formed depression lies near Pembroke and is moving eastwards.

EXPLANATION OF COLUMNS.

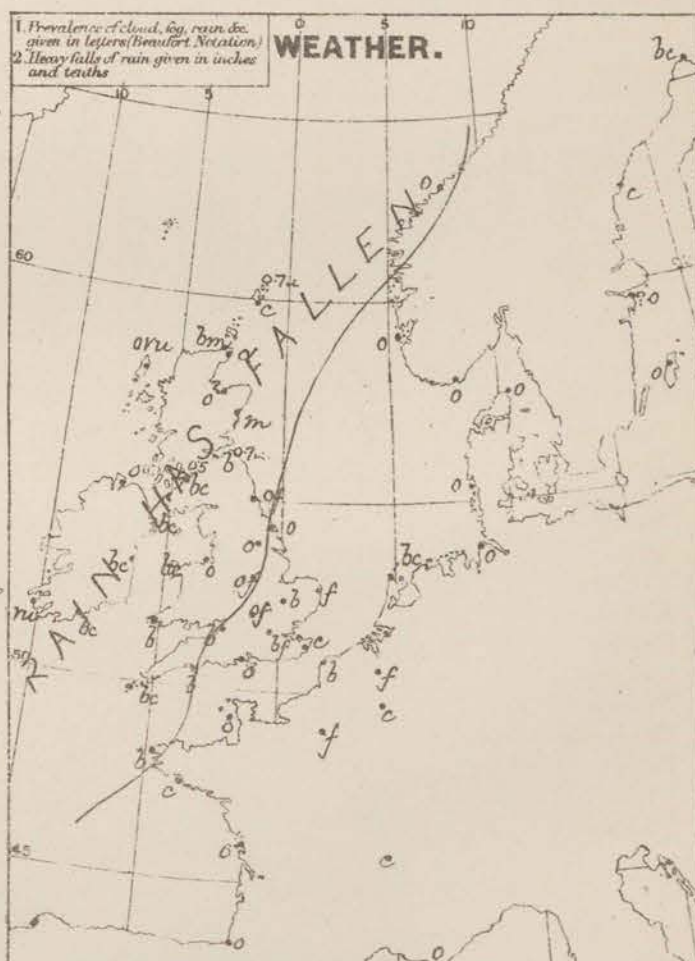
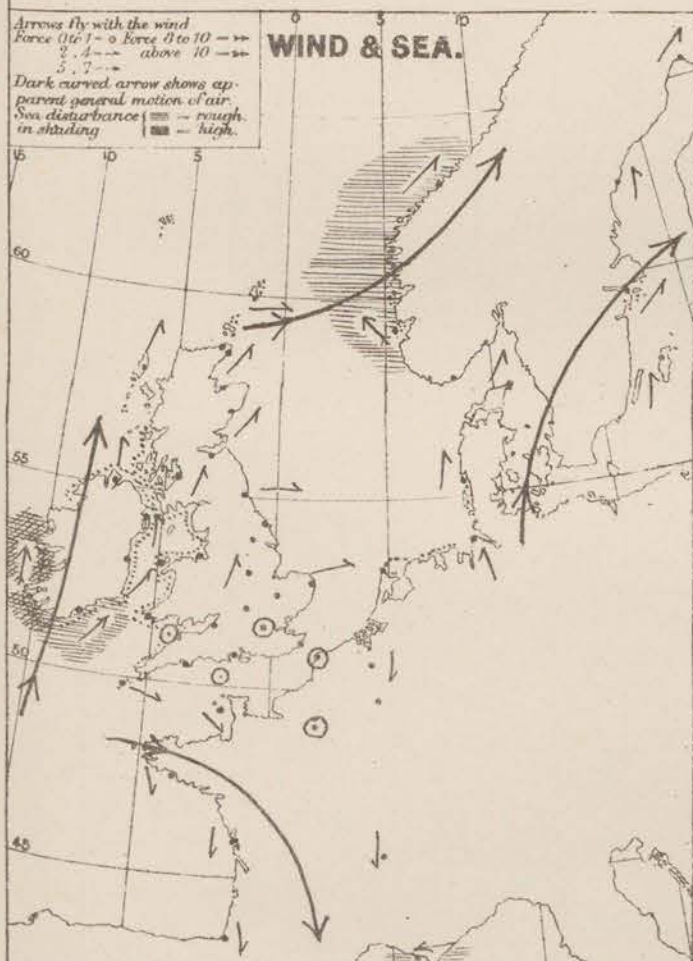
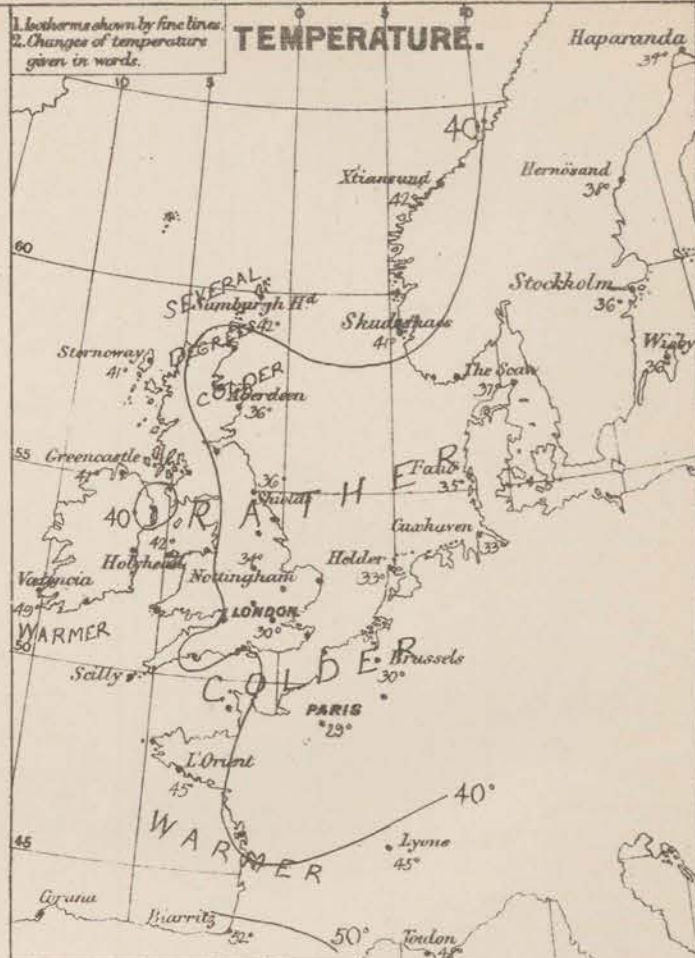
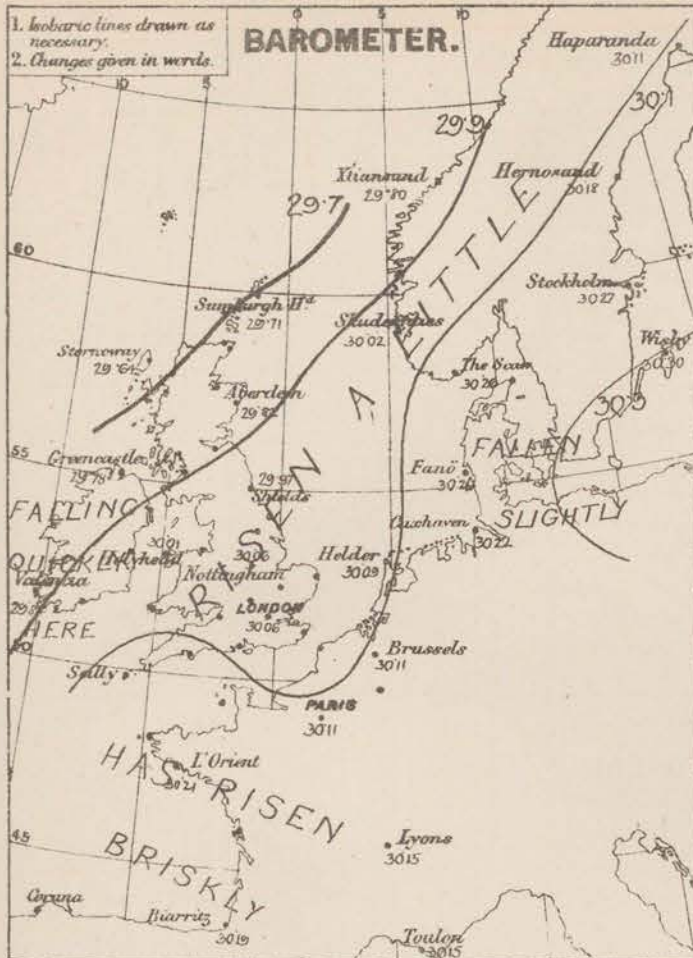
WEATHER.—Beaufort scale is, b. blue sky; c. detached clouds; d. drizzling rain; f. fog; g. dark, gloom; h. hail; l. lightning; m. misty (hazy); o. overcast; p. passing showers; q. squally; r. rain; s. snow; t. thunder; u. ugly, threatening; v. visibility, unusual transparency; w. dew.

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

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

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

WEATHER CHARTS for 8 a.m. on Tuesday 11TH DEC^R 1877.



REMARKS. Weather has again become dull, wet and threatening at the extreme western stations, but is at present fine on the shores of St. George's Channel, cloudy and hazy in Scotland, and foggy over England. Rain fell on all but the south and south-east coasts yesterday, the amounts varying from a few hundredths in our south-west coasts to 0.4 in in Caithness, half an inch at Aberdeen, and three quarters of an inch at Leith and Edinburgh. Temperature has again fallen over England and on the eastern shores of the North Sea, but has risen in the Bay of Biscay, Ireland and the Hebrides. Valencia is 19° warmer than our south eastern counties, where the thermometer is as low as 30° in the shade. In London it went down to 28° in the shade and 19° on the grass early this morning. Wind is very light and variable or calm over England, moderate from SW. in Scotland, and S. in Ireland. At Valencia a fresh S. gale set in at 7 a.m., and at Queenstown there is a strong breeze from SW, while on the shores of the Bay of Biscay the wind is moderate from the N. Sea is high off the west of Ireland, rough off the west of Norway, slight or smooth elsewhere.

Barometrical Indications. The barometer is as high as 30.3 in over the Baltic and 30.2 in over the Bay of Biscay, while it stands at 29.8 in at Valencia, and 29.6 in at Stormway. In the west of Ireland it is now falling fast, and there appears to be a depression off our western coasts, travelling NE., which is likely to render the gradients for S. winds steep in the west.

Warnings. The following warning has been sent to our west coasts:—"Barometer falling rapidly Ireland. S. gale Valencia. Wind built here Tuesday 9.40 a.m."

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

DAILY WEATHER REPORT

DEC 12TH

1877.

STATIONS.	† YESTERDAY EVENING.					8 A.M. TO DAY.										PAST 24 HOURS.		
	Barometer at 320 F. and Sea Level.	Temp. in shade.	WIND.		Weather.	BAROMETER.		SHADE TEMP.			WIND.		Weather.	Sea. (0 to 9.)	SHADE TEMP.		Amount of Rainfall.	
			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 ...	30.05	37	SW	6	e	30.01	-.10	35	34	+ 1	SW	4	0	*	37	34	-	
Hernösand ...	30.12	35	S	4	e	30.03	-.15	33	32	- 5	S	6	0	*	*	*	-	
Stockholm ...	30.15	36	WSW	2	0	30.06	-.21	33	33	- 3	SSW	6	0	*	*	*	-	
Wisby ...	30.27	33	SSE	4	e	30.10	-.14	33	32	- 3	S	4	0	*	*	*	-	
Christiansund ...	29.76	44	S	3	be	29.47	-.33	44	37	+ 2	ESE	3	0	4	45	39	-	
Skudesnaes ...	29.90	39	SE	9	T	29.49	-.53	39	38	- 2	SE	9	T	8	41	?	0.12	
Oxö (Xiänsand) ...	30.09	38	SSE	4	T	29.75	-.44	37	36	- 1	S	9	m	6	39	32	0.12	
Skagen (The Seaw) ...	30.14	36	SSE	4	0	29.91	-.35	36	31	- 1	S	6	0	6	39	30	0.04	
Fanö ...	30.10	31	SSE	6	0	29.86	-.24	33	32	- 2	S	6	0	*	*	30	-	
Cuxhaven ...	30.20	37	SSW	2	e	29.99	-.23	31	31	- 2	S	3	0	*	*	28	-	
Sumburgh Head ...	29.37	44	SSE	9	T	29.18	-.53	42	40	0	NE	3	T	4	46	40	0.39	
Stornoway ...	29.19	40	WSW	3	T	29.27	-.37	38	37	- 3	W	2	0	4	41	36	0.59	
Thurso ...	29.31	42	SSE	5	T	29.20	-.54	42	41	+ 7	WN	4	T	4	48	33	0.25	
Wick ...	29.39	43	S	7	T	29.21	-.55	39	39	+ 2	WN	2	T	3	46	36	0.31	
Nairn ...	?	45	SE	6	0	29.21	-.58	40	39	+ 5	SE	1	T	1	50	33	0.37	
Aberdeen ...	29.49	43	S	8	T	29.15	-.67	44	42	+ 8	SSW	3	be	3	48	35	0.15	
Leith ...	29.51	46	SW	6	T	29.19	-.69	46	44	+ 6	SW	4	be	*	53	40	0.05	
Shields ...	29.73	41	SSW	5	g	29.33	-.64	47	45	+ 11	WSW	4	be	3	51	36	-	
Scarborough ...	29.84	39	SW	2	0	29.44	-.54	48	45	+ 12	SW	5	6	4	50	36	0.13	
York ...	29.87	41	S	2	0	29.48	-.54	48	45	+ 12	SW	4	0	*	51	35	0.13	
Nottingham ...	29.91	41	S	3	T	29.61	-.45	49	45	+ 15	SSE	8	0	*	52	33	0.11	
Ardrossan ...	29.43	49	S	8	T	29.24	-.64	42	41	- 3	WNW	8	g p	5	50	42	0.46	
Greencastle ...	29.32	49	SSW	5	T	29.43	-.35	40	39	- 1	W	3	0	*	50	39	0.55	
Donaghadee ...	29.47	48	SSW	7	0	29.47	-.45	40	40	+ 4	WNW	5	0	4	49	35	0.26	
Kingstown ...	29.60	53	S	6	T	29.64	-.35	43	40	+ 2	W	5	0	4	54	40	0.06	
Holyhead ...	29.69	49	SSW	6	T	29.60	-.41	45	42	+ 3	WSW	7	0	6	53	41	0.44	
Liverpool (Bidston) ...	29.79	45	SE	4	T	29.48	-.54	44	42	+ 3	WSW	7	0	5	53	39	0.14	
Valencia ...	29.56	54	SW	8	og	29.86	+ .02	44	40	- 5	W	4	log h	4	55	39	0.74	
Roche's Point... ..	29.67	49	SW	8	T	29.85	-.15	42	40	- 6	WNW	2	6	4	50	40	0.70	
Pembroke ...	29.83	51	SSW	7	0	29.74	-.23	48	46	+ 4	WNW	6	be	4	52	44	0.24	
Portishead ...	29.99	45	SW	4	0	29.70	-.26	49	46	+ 9	WSW	6	0	5	52	36	0.17	
Scilly ...																		
Plymouth ...	30.03	49	SW	4	0	29.81	-.28	48	46	+ 10	WSW	4	0	*	54	37	0.33	
Hurst Castle ...	30.05	47	WN	3	0	29.76	-.27	50	49	+ 10	WSW	5	0	5	51	40	0.27	
Dover ...	30.12	40	WN	2	be	29.86	-.21	48	47	+ 10	SW	7	om	5	49	37	0.14	
London ...	30.07	41	S	1	om	29.76	-.30	50	48	+ 20	SW	5	og	*	50	30	0.09	
Oxford ...	*	*	*	*	*	29.72	-.35	49	46	+ 14	WSW	5	0	*	51	35	0.05	
Cambridge ...	30.03	35	SW	1		29.67	-.39	49	48	+ 19	SW	3	0	*	50	29	0.06	
Yarmouth ...	30.04	38	SW	2	be	29.81	-.34	46	45	+ 7	SSW	6	og	4	46	36	0.09	
The Helder... ..	*	*	*	*	*	29.84	-.25	40	40	+ 7	SSW	4	T	*	*	*	0.04	
Cape Gris Nez ...	30.10	43	WNW	1	0	29.88	-.20	46	44	+ 14	S	8	T	6	?	32	0.04	
Jersey ...	30.18	47	W	4	0	29.95	-.19	50	50	+ 5	SW	7	om	6	50	45	0.19	
Brest ...	30.18	50	WSW	4	0	30.02	-.16	52	48	+ 6	WN	4	0	6	52	45	0.26	
L Orient ...	30.23	46	WN	4	0	30.06	-.15	52	52	+ 7	WSW	5	T	5	54	43	0.24	
Rochefort ...	30.26	46	SE	1	m	30.20	+ .07	45	45	+ 8	SSW	3	0	3	52	34	-	
Biarritz ...	30.33	52	Z	0	T	30.32	+ .13	46	43	- 6	SSE	2	0	4	52	41	0.08	
Corunna ...	*	*	*	*	*										*	*	*	
Brussels ...	*	*	*	*	*	30.03	-.08	37	*	+ 7	SSW	6	0	*	*	*	-	
Charleville ...	*	*	*	*	*	30.05	+ .03	32	*	+ 2	ENE	3	0	*	*	*	*	
Paris ...	30.11	35	ESE	2	e	30.15	+ .04	35	34	+ 6	S	2	0	*	*	*	-	
Lyons ...	*	*	*	*	*	30.34	+ .19	46	*	+ 1	WN	4	g	*	*	*	*	
Toulon ...	30.30	46	E	2	e	30.32	+ .17	43	39	- 5	WN	3	6	3	50	?	-	

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

	Bar.	Dry.	Wet.	Wind.	Wes.	Sea.		Bar.	Dry.	Wet.	Wind.	Wes.	Sea.		
Skudesnaes ...	29.99	41	39	SE	9	0	7	Valencia	29.63	53	52	SSW	9	rgm	7
Thurso	29.49	41	39	SSE	4	mfg	3	Scilly	*						
Scarborough ...	29.94	40	39	SW	1	ef	2	London	30.09	41	39	S	1	og f	*
Greencastle ..	29.48	45	44	S	4	0	*	Rochefort ...	30.23	43	41	N	2	m	3
Holyhead	29.87	47	45	SSW	5	rg	5								

The barometer still falls fast in the W. and NW. and strong SSW gales are blowing both at Valencia and Stornoway, while at the other western and northern ports the winds is freshening with a threatening appearance. In the east the weather is very quiet. Warnings have been extended to the E. of Scotland, and SW. and NE. of England.

EXPLANATION OF COLUMNS.

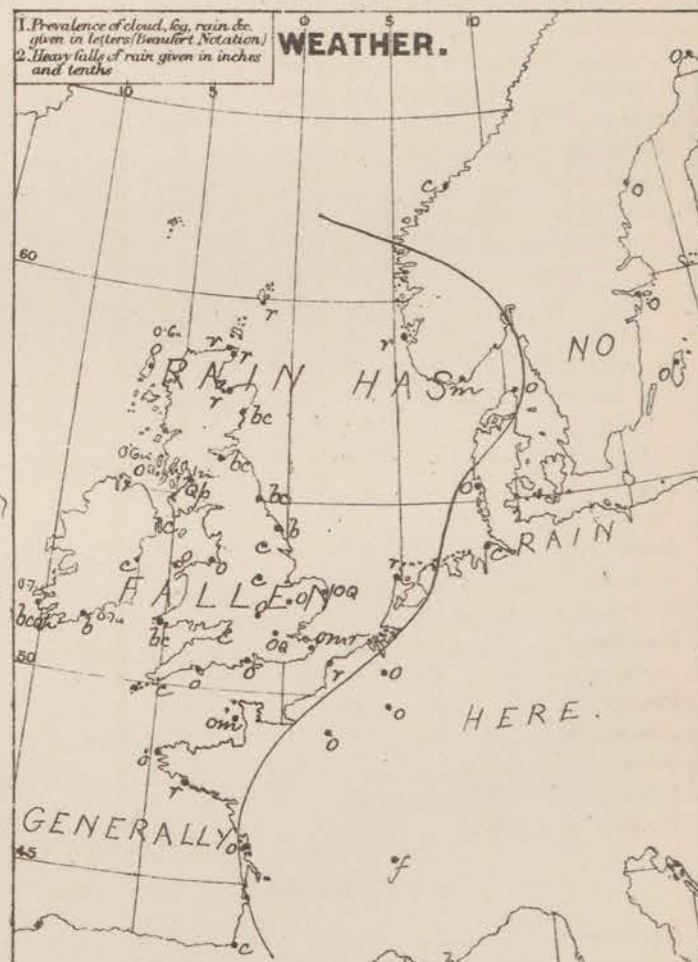
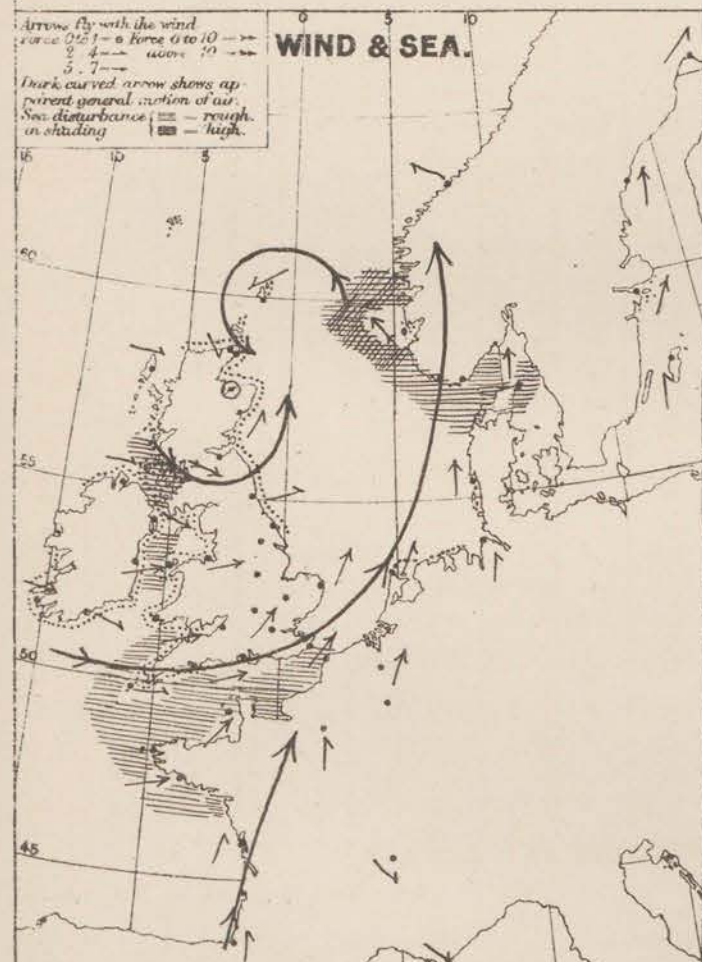
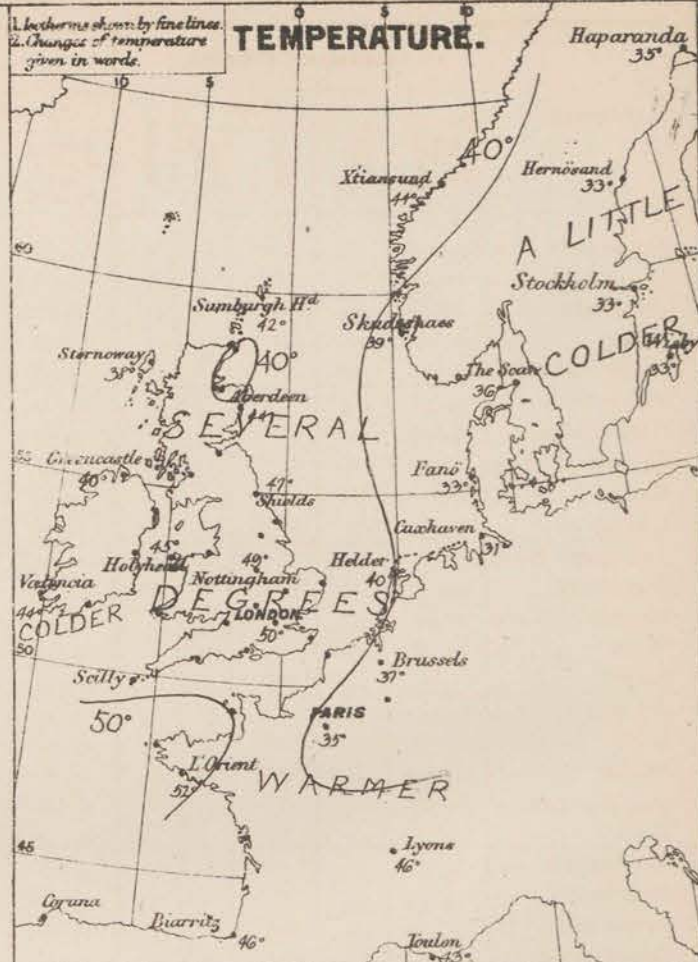
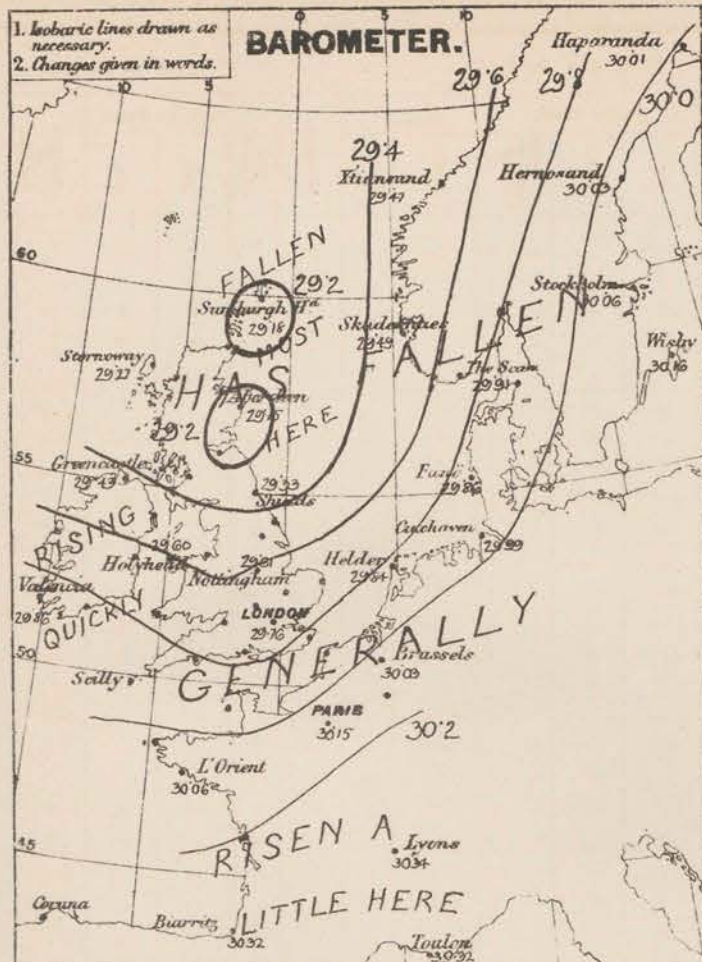
WEATHER.--Beaufort Scale is, b. blue sky; c. detached clouds; d. drizzling rain; f. fog; g. dark, gloomy; h. hail; l. lightning; m. misty (hazy); o. overcast; p. passing showers; q. squally; r. rain; s. snow; t. thunder; u. ugly, threatening; v. visibility, unusual transparency; w. dew.

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

† The evening observations are taken at 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 Wednesday 12TH DEC^R 1877.



REMARKS. Weather is very unsettled. It is at present improving at our western stations, but is overcast and squally in the southern parts of England, with rain in some places, and very rainy in Scotland. Rain has fallen all over the country during the past 24 hours—heavily in the west and north, where many of the amounts reported vary from 0.4 in. to 0.9 in. Temperature has risen rapidly over England and to a smaller extent in Scotland, while it has fallen in Ireland. London is 20° warmer than it was yesterday. The readings this morning vary from 50° in the southeast of England to between 40° and 44° in Ireland and 38° at Stormway. The continental readings are therefore about 9° above the average. Wind is moderate from W. in Ireland, very variable in Scotland but is strong from SW over England, from S in Denmark and flows a gale from E in Norway. Fresh to strong S. to W. gales have been felt on all but our eastern coasts during some part of the past 24 hours. Sea is now moderate off the west of Ireland and east of England, rough in the Irish and English Channel, and high on the coast of Norway.

Barometrical Indications. A rather complex depression, having two distinct minima, has advanced over Scotland from the SW, causing the barometer to fall 0.7 in. at Aberdeen, where the reading is now 29.15 in. Pressure has been recently very quiet in Ireland and the south-west of England during the night and the recovery is gradually spreading over us. The improvement will probably be temporary.

Farnings. Farnings were issued to all but our south-east coasts during yesterday.

DAILY WEATHER REPORT DEC^r 13th 1877.

STATIONS.	† YESTERDAY EVENING.					8 A.M. TO DAY.										PAST 24 HOURS.		
	Barometer at 590 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 590 F. and Sea Level.	Difference from 5 a.m. yesterday.	Dry.	Wet.	Difference from 5 a.m. yesterday.	Dirco.	Force. (0 to 12).			Max.	Min.		
Haparanda ...	29.86	32	SH	6	o	29.73	-.28	32	32	- 3	SH	6	o	*	34	30	-	
Hernösand ...	29.78	32	SSE	6	o	29.60	-.43	34	33	+ 1	SSW	6	o	*	*	*	0.04	
Stockholm ...	29.79	36	NSSW	6	o	29.64	-.42	37	36	+ 4	SSE	6	r	*	*	*	-	
Wisby ...	30.04	34	SSW	8	o	29.78	-.38	36	33	+ 3	E	4	r	*	*	*	-	
Christiansund ...	29.06	45	SSE	4	7	29.32	-.15	39	37	- 5	SSW	2	c	4	45	36	?	
Skudesnaes ...	29.18	44	SSE	5	r	29.8	-	41	39	+ 2	SH	2	r	5	45	39	0.12	
Oxö (Xtiansand) ...	29.36	44	SSW	6	o	29.53	-.22	39	37	+ 2	NSSW	4	c	3	45	37	-	
Skagen (The Scau) ...	29.52	40	S	8	r	29.58	-.33	39	39	+ 3	SH	4	o	4	43	32	0.59	
Fanö ...	29.62	43	SH	5	c	29.76	-.10	41	39	+ 8	NSSW	4	hpl	*	?	32	0.28	
Cuxhaven ...	29.80	42	SSW	3	r	29.88	-.11	36	36	+ 5	SH	3	b	*	39	30	0.29	
Sumburgh Head ...	29.22	42	NSSW	3	c	29.32	+ .14	39	37	- 3	NSSW	4	c	5	43	34	0.25	
Stornoway ...	29.38	35	NSSW	1	c	29.36	+ .09	35	34	- 3	N	3	chp	3	39	32	0.18	
Thurso ...	29.34	35	NSSW	2	bc	29.34	+ .14	35	34	- 7	SSW	2	bc	3	42	33	0.07	
Wick ...	29.38	35	N	3	h	29.37	+ .16	36	35	- 3	SSE	2	b	1	40	33	0.14	
Nairn ...	29.42	37	SH	1	h	29.42	+ .21	36	33	-	N	1	o	1	40	35	0.14	
Aberdeen ...	29.44	38	N	1	h	29.47	+ .32	34	33	- 10	S	1	c	1	45	33	0.23	
Leith ...	29.58	39	NSSW	4	bc	29.55	+ .36	36	35	- 10	SH	3	bc	*	46	34	0.04	
Shields ...	29.64	38	NSSW	3	h	29.67	+ .34	37	34	- 10	SH	2	of	2	48	35	-	
Scarborough ...	29.71	39	N	3	h	29.72	+ .28	35	34	- 13	NSSW	2	c	2	49	34	-	
York ...	29.75	39	N	1	h	29.75	+ .27	37	36	- 11	N	2	c	*	47	33	0.02	
Nottingham ...	29.84	36	SH	1	h	29.82	+ .21	34	34	- 15	SSW	4	h	*	49	32	0.02	
Ardrossan ...	29.62	41	N	3	hpl	29.57	+ .33	34	39	- 1	SS	4			45		1.16	
Greencastle ...	29.62	37	SH	2	o	29.61	+ .18	36	35	- 4	NSSW	2	o	*	42	34	0.31	
Donaghadee ...	29.70	38	NSSW	4	h	29.66	+ .19	35	34	- 5	N	5	h	3	42	34	-	
Kingstown ...	29.87	39	N	3	h	29.76	+ .12	39	37	-	N	5	c	4	44	38	0.01	
Holyhead ...	29.80	42	NSSW	2	c	29.78	+ .18	41	40	- 4	NSSW	4	c	3	47	40	-	
Liverpool (Bidston) ...	29.78	41	NSSW	5	h	29.77	+ .29	38	36	- 6	SH	3	bc	3	45	37	0.01	
Valencia ...	29.88	41	NSSW	4	capw	29.92	+ .06	41	39	- 3	N	4	cap	5	47	38	0.21	
Roche's Point ...	29.93	42	NSSW	4	bc	29.93	+ .08	40	38	- 2	NSSW	4	cap	4	46	37	0.08	
Pembroke ...	29.90	40	N	6	capw	29.87	+ .13	45	43	- 3	N	5	bc	3	48	42	0.11	
Portishead ...	29.94	41	NSSW	4	bc	29.90	+ .20	40	39	- 9	NSSW	3	bc	4	49	35	0.28	
Scilly ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Plymouth ...	30.02	?	NSSW	2	o	29.99	+ .15	39	38	- 9	NSSW	2	bc	*	50	38	0.12	
Hurst Castle ...	29.93	47	NSSW	3	bc	29.94	+ .18	45	41	- 5	N	5	h	5	51	40	0.10	
Dover ...	29.91	43	N	4	h	29.92	+ .06	41	40	- 7	NSSW	4	bc	2	50	38	0.13	
London ...	29.93	44	N	2	h	29.92	+ .16	37	36	- 13	SH	1	bc	*	52	36	0.08	
Oxford ...	...	...	...	...	...	29.90	+ .18	36	35	- 13	NSSW	1	h	*	50	35	0.03
Cambridge ...	29.87	38	N	1	h	29.88	+ .21	36	35	- 13	SH	1	o	*	57	33	0.02	
Yarmouth ...	29.83	41	N	3	bc	29.86	+ .15	36	36	- 10	NSSW	2	h	2	49	33	0.06	
The Helder ...	...	...	...	...	...	29.87	+ .03	43	40	+ 3	SH	2	bc	*	*	*	0.08
Cape Gris Nez ...	29.94	46	NSSW	6	h	29.91	+ .03	46	45	o	N	6	c	4	52	39	0.16	
Jersey ...	30.09	?	N	4	bc	30.06	+ .11	46	41	- 4	N	5	bc	5	57	43	0.17	
Brest ...	30.14	50	NSSW	3	h	30.13	+ .11	46	43	- 6	NSSW	4	bc	4	52	43	0.18	
L'Orient ...	30.15	48	NSSW	3	c	30.17	+ .11	46	41	- 6	NSSW	3	c	3	52	41	0.16	
Rochefort ...	30.12	52	SH	4	r	30.15	- .05	46	46	+ 1	NSSW	2	bc	3	63	34	-	
Biarritz ...	30.28	52	SSE	2	bc	30.22	- .10	52	50	+ 6	S	2	c	4	57	45	0.04	
Corunna ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Brussels ...	...	...	...	...	...	30.01	- .02	36	*	- 1	SH	6	o	*	*	*	0.06
Charleville ...	...	...	...	...	...	29.99	- .06	39	*	+ 7	SH	1	c	*	*	*	*
Paris ...	30.05	43	SH	3	o	30.10	- .05	34	33	- 1	S	2	h	*	*	*	0.12	
Lyons ...	...	...	...	...	...	30.22	- .12	46	*	o	SE	2	p	*	*	*	*
Toulon ...	30.31	45	N	3	bc	30.17	- .15	45	41	+ 2	N	5	c	3	48	43	-	

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

	Bar.	Dry.	Wet.	Wind.	Wca.	Sea.		Bar.	Dry.	Wet.	Wind.	Wca.	Sea.		
Skudesnaes ...	29.22	42	41	ESE	9	r	8	Valencia ...	29.91	43	40	N	4	cpn	4
Thurso	29.27	39	38	NW	4	o	4	Seilly							
Scarborough ...	29.37	44	41	N	5	h	4	London	29.84	48	44	N	2	bc	*
Greencastle ...	29.58	40	37	NSW	3	c	*	Rochefort ...	30.13	50	50	SW	3	r	3
Holyhead	29.75	44	40	NSW	6	c	5								

The barometer is now rising briskly all over Great Britain, and the winds has veered to N.W. in Scotland and moderated. At Valencia the rise of the mercury has almost ceased since noon, and the winds is "backing" slowly at some of the N.W. stations. The signals are still flying in the SH, N, and N.E.

EXPLANATION OF COLUMNS.

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

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

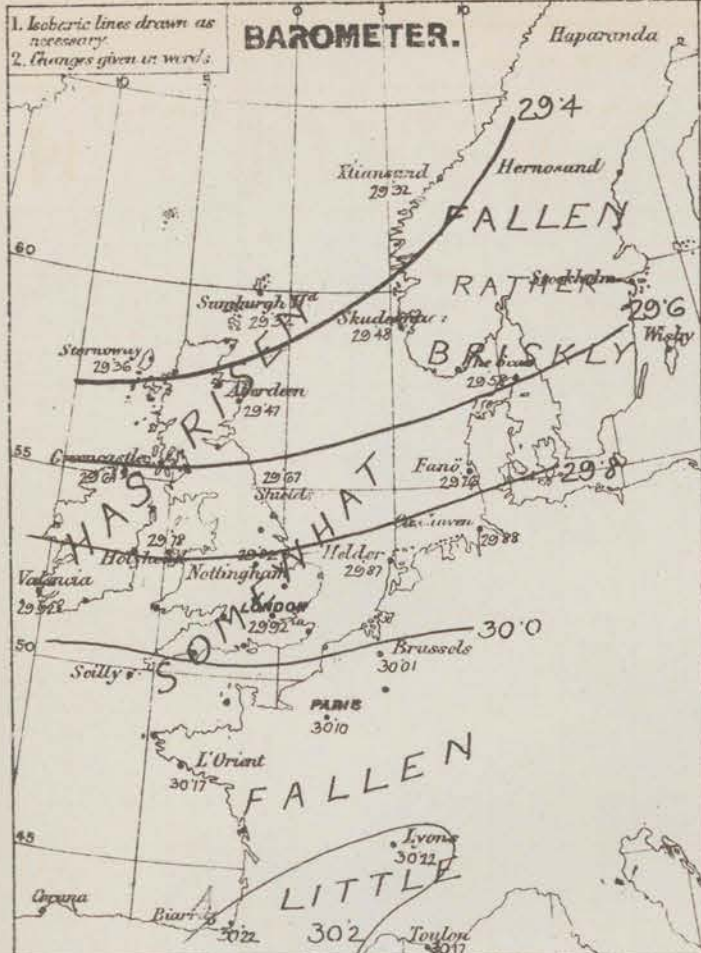
† The evening observations are taken at 6 p.m. in our Islands, at 8 p.m. (Christiania time) in Sweden, Norway, and Denmark, and at 7 p.m. (Paris time) in France.

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

WEATHER CHARTS for 8 a.m. on Thursday 13TH DEC^R 1877.

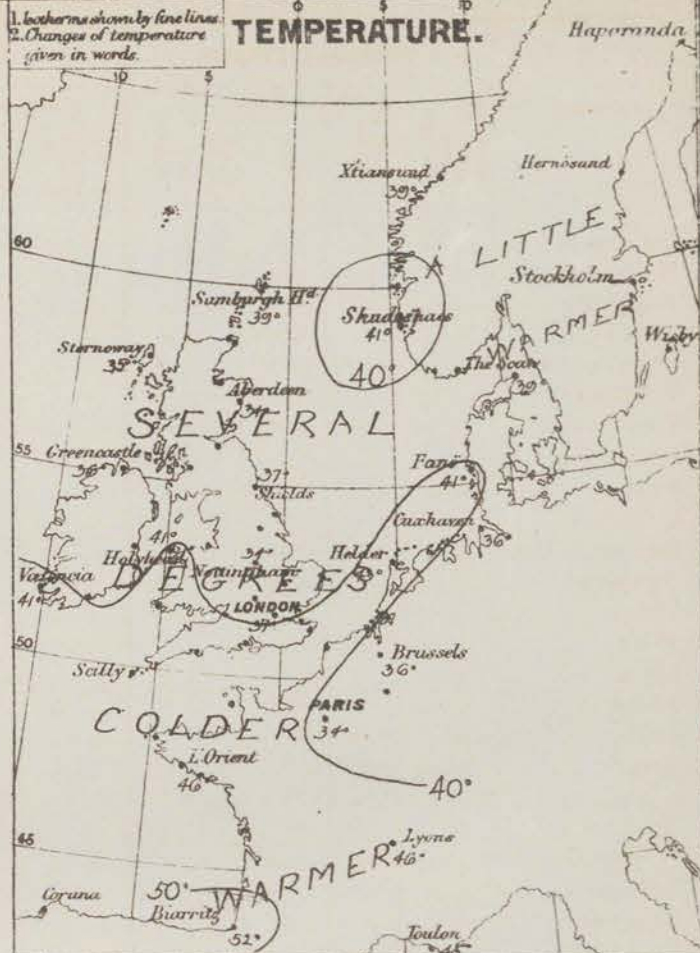
1. Isobaric lines drawn as necessary.
2. Changes given in words.

BAROMETER.



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

TEMPERATURE.



1. Arrows fly with the wind.
2. Force 0 to 10 —
3. 10 to 20 —
4. 20 to 30 —
5. 30 to 40 —
6. 40 to 50 —
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DAILY WEATHER REPORT

DEC^r 14th

1877.

STATIONS.	† YESTERDAY EVENING.					8 A.M. TO DAY.										PAST 24 HOURS.		
	Barometer at 32° F. and Sea Level.	Temp. in shade.	WIND.		Weather.	BAROMETER.		SHADE TEMP.			WIND.		Weather.	Sea. (0 to 9.)	SHADE TEMP.		Amount of Rainfall.	
			Dir.	Force. (0 to 12).		Reading at 32° F. and Sea Level.	Difference from 8 a.m. yesterday.	Dry.	Wet.	Difference from 8 a.m. yesterday.	Dir.	Force. (0 to 12).			Max.	Min.		
Haparanda ...	29.71	34	S	4	r	29.80	+ .07	34	33	+ 2	S	4	0	*	?	32	0.12	
Hernösand ...	29.54	38	SSW	6	o	29.79	+ .19	34	33	0	SW	1	0	*	*	*	-	
Stockholm ...	29.72	38	SW	3	o	29.87	+ .23	32	31	- 5	SSW	2	6	*	*	*	-	
Wisby ...	29.78	38	SW	4	o	29.92	+ .14	35	35	- 1	SSE	4	0	*	*	*	0.08	
Christiansund ...	29.47	39	SSW	3	o	29.78	+ .46	35	34	- 4	SW	2	087	4	?	32	0.28	
Skudesnaes ...	29.58	42	SSW	3	o	29.80	+ .32	40	39	- 1	SSE	2	0	3	?	?	-	
Oxö (Xiänsand) ...	29.66	37	NE	2	c	29.82	+ .29	35	34	- 4	NNW	2	0	2	43	34	-	
Skagen (The Seaw) ...	29.69	37	SW	3	b	29.85	+ .27	34	33	- 5	Z	0	0	0	41	30	0.04	
Fanö ...	29.76	35	WSW	4	c	29.84	+ .08	37	36	- 4	Z	0	6c	*	41	32	0.16	
Cuxhaven ...	29.83	*	SW	4	r	29.93	+ .05	37	37	+ 1	SW	2	c	*	37	34	0.05	
Sumburgh Head ...	29.42	38	NNE	2	o	29.86	+ .54	36	35	- 1	NNW	2	6c	3	42	33	0.06	
Stornoway ...	29.60	37	NNW	2	eph	29.99	+ .63	33	32	- 2	NNW	1	6	3	38	31	0.13	
Thurso ...	29.47	40	SW	3	r	29.93	+ .59	36	35	+ 1	WSW	2	c	4	43	34	0.28	
Wick ...	29.47	35	W	4	c	29.96	+ .59	34	33	- 2	W	2	0	1	40	30	0.07	
Nairn ...	29.59	35	W	1	b	30.01	+ .59	34	33	- 2	Z	0	6	1	39	23	-	
Aberdeen ...	29.57	35	SW	1	b	29.97	+ .50	34	34	0	Z	0	6	1	39	23	-	
Leith ...	29.51	38	WSW	3	6c	30.07	+ .82	36	34	0	SW	1	6c	*	41	34	-	
Shields ...	29.62	40	W	3	of	30.05	+ .41	36	33	- 1	W	3	6	2	41	33	-	
Scarborough ...	29.75	37	WSW	2	b	30.04	+ .34	37	36	+ 2	NNW	2	6	2	38	35	0.03	
York ...	29.78	37	W	1	b	30.10	+ .35	34	33	- 3	NNW	1	6	*	40	32	0.04	
Nottingham ...	29.89	35	Z	0	6c	30.17	+ .35	32	32	- 2	Z	0	6	*	43	31	0.04	
Ardrossan ...	29.71	41	W	3	cu	30.11	+ .34	39	38	- 2	NNW	1	6c	0	43	37	0.27	
Greencastle ...	29.76	38	W	2	c	30.15	+ .34	39	37	+ 3	W	2	c	*	45	35	0.18	
Donaghadee ...	29.82	35	NNW	4	r	30.17	+ .51	35	35	0	W	3	6	2	39	34	0.09	
Kingstown ...	29.91	40	NNW	5	c	30.23	+ .17	39	37	0	NNW	4	6	4	41	37	0.04	
Holyhead ...	29.88	43	W	5	c	30.19	+ .41	43	41	+ 2	W	5	6	4	44	41	*	
Liverpool (Bidston) ...	29.84	41	W	6	6c	30.16	+ .39	41	40	+ 3	W	4	c	4	43	37	0.09	
Valencia ...	30.12	44	NNW	4	cq	30.36	+ .44	42	40	+ 1	NNW	3	6c	3	48	40	0.04	
Roche's Point...	30.00	39	W	4	6c	30.33	+ .40	38	36	- 2	W	3	6	3	44	37	0.11	
Pembroke ...	29.98	44	W	3	6c	30.26	+ .39	44	42	- 1	W	3	6	2	46	43	-	
Portishead ...	29.95	40	W	3	b	30.21	+ .31	39	38	- 1	W	2	6	3	44	37	0.03	
Scilly ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Plymouth ...	30.02	44	W	2	b	30.29	+ .30	35	34	- 4	NNW	1	6m	*	45	33	0.03	
Hurst Castle ...	29.94	40	NNW	3	6c	30.21	+ .27	37	37	- 8	W	3	6	3	46	35	0.01	
Dover ...	29.93	41	W	4	b	30.16	+ .24	36	35	- 5	NNW	3	6c	2	45	36	-	
London ...	29.94	42	W	2	6c	30.18	+ .26	34	33	- 3	W	2	c	*	45	31	-	
Oxford ...	*	*	*	*	*	30.18	+ .28	33	32	- 3	WSW	1	6	*	44	32	-	
Cambridge ...	29.92	36	SW	1	b	30.13	+ .25	34	33	- 2	WSW	1	6	*	44	33	-	
Yarmouth ...	29.84	38	WSW	3	6m	30.07	+ .21	34	33	- 2	W	3	6m	2	41	32	0.01	
The Helder. ...	*	*	*	*	*	29.95	+ .03	43	43	0	W	2	c	*	*	*	-	
Cape Gris Nez ...	29.93	45	W	5	6c	30.12	+ .21	41	39	- 5	NNW	5	6	4	46	41	-	
Jersey ...	30.07	44	W	5	6c	30.31	+ .35	43	40	- 3	W	4	6c	4	49	41	0.10	
Brest ...	30.14	50	W	4	6c	30.32	+ .19	45	39	- 1	N	2	6	4	50	39	0.04	
L'Orient ...	30.16	46	W	4	6c	30.39	+ .22	41	39	- 5	N	3	6	3	50	39	-	
Rochefort ...	30.17	50	Z	0	o	30.26	+ .11	43	41	- 3	NNE	2	6	3	61	37	-	
Biarritz ...	30.15	32	SSW	3	r	30.25	+ .03	45	43	- 7	ENE	3	m	4	52	41	0.45	
Corunna ...	*	*	*	*	*	...	...	...	...	...	...	...	...	...	...	...	...
Brussels ...	*	*	*	*	*	30.08	+ .07	34	*	- 2	WSW	6	6	*	*	*	-	
Charleville ...	*	*	*	*	*	...	...	...	...	...	...	...	...	...	...	...	...
Paris ...	30.07	49	SW	3	6	30.28	+ .13	34	34	0	NNW	1	6	*	*	*	-	
Lyons ...	*	*	*	*	*	30.29	+ .07	44	*	- 2	N	6	?	*	*	*	-	
Toulon ...	30.14	46	W	4	r	30.07	- .10	46	45	*	W	4	0	3	48	45	0.39	

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

	Bar.	Dry.	Wet.	Wind.		Wes.	Sea.		Bar.	Dry.	Wet.	Wind.		Wes.	Sea.
Skudesnaes ...	29.73	42	09	SSW	6	c	4	Valencia	30.02	46	42	NNW	4	6c	4
Thurso	29.39	37	36	SW	3	c	4	Scilly							
Scarborough ...	29.72	37	36	WSW	3	g	2	London	29.89	44	41	SW	3	c	*
Greencastle ...	29.69	40	38	W	2	p	*	Rochefort ...	30.17	50	48	W	2	m	*
Holyhead	29.83	41	40	W	4	c	3								

The barometer is still rising, except over our SE^m countries, where it has fallen a little and the sky has become very cloudy. —

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.

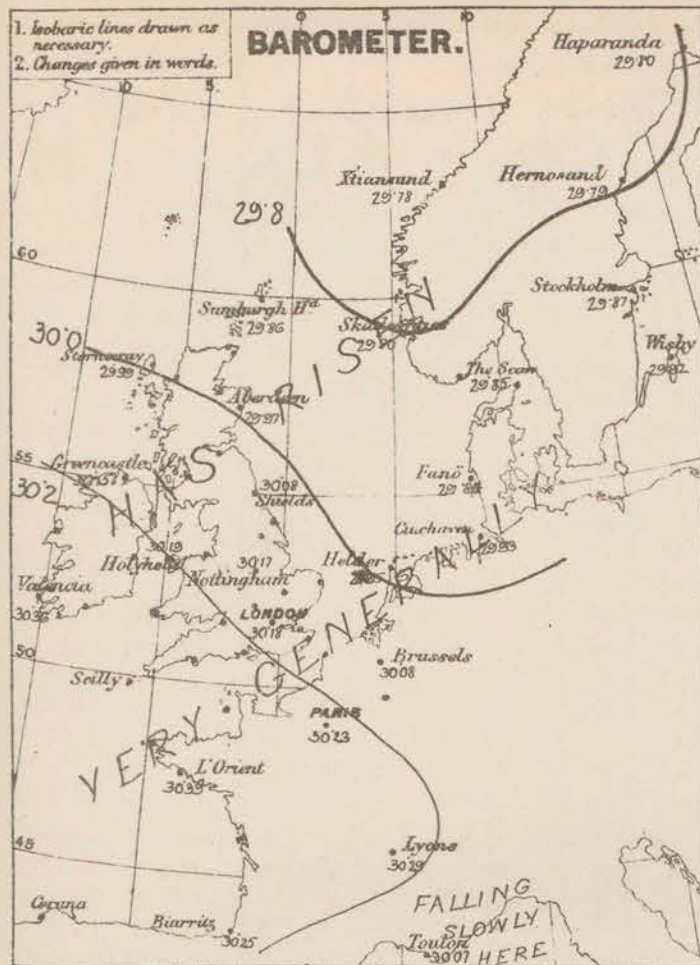
† The evening observations are taken at 6 p.m. in our Islands, at 8 p.m. (Christiania time) in Sweden, Norway, and Denmark, and at 7 p.m. (Paris time) in France.

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 14TH DEC^R 1877.

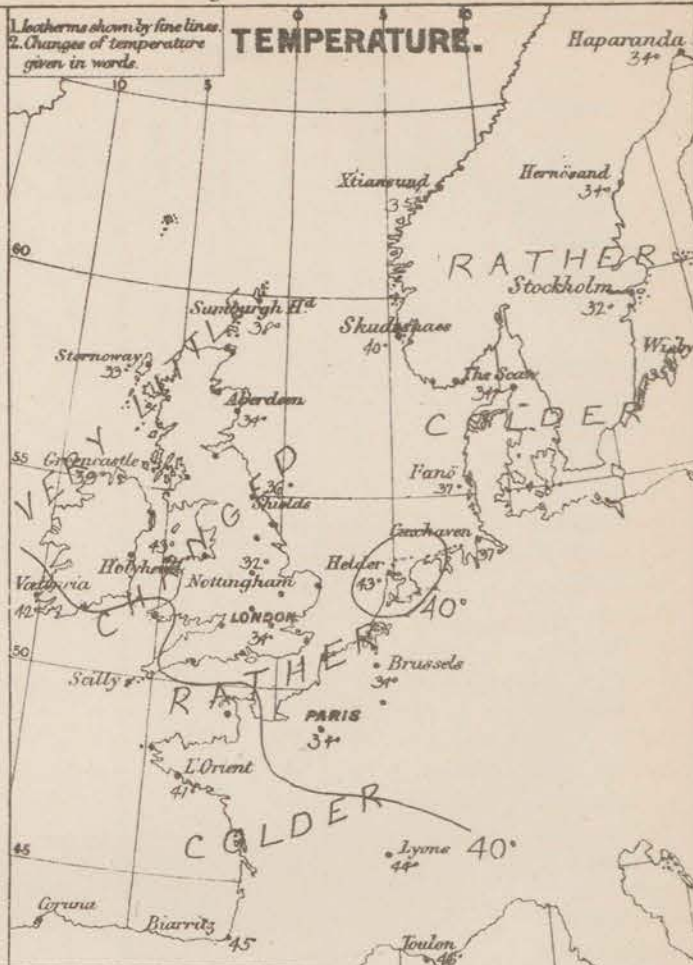
1. Isobaric lines drawn as necessary.
2. Changes given in words.

BAROMETER.



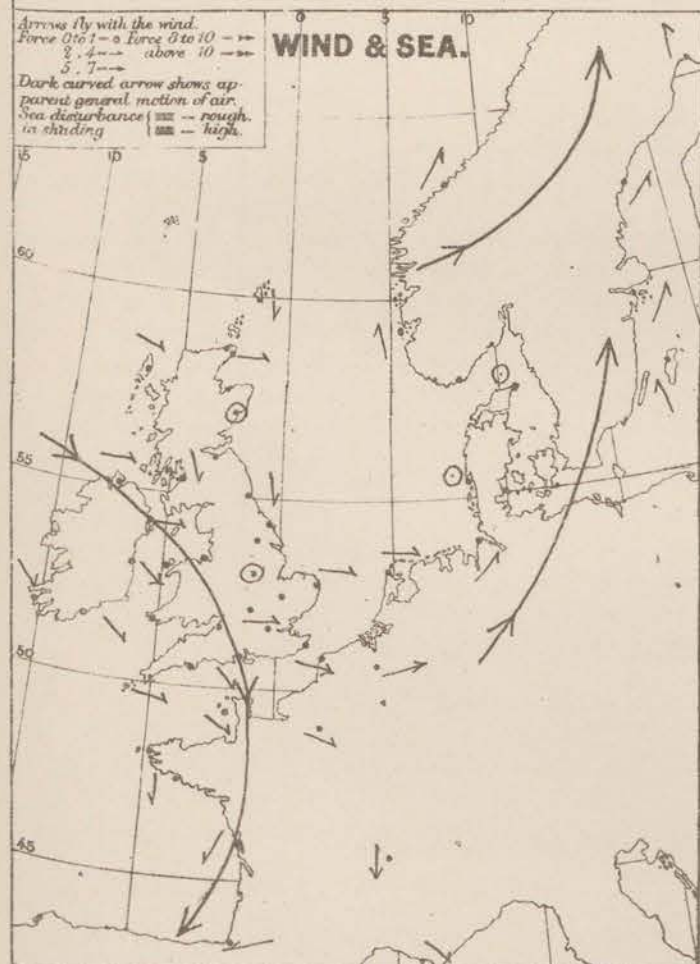
1. Isotherms shown by fine lines.
2. Changes of temperature given in words.

TEMPERATURE.



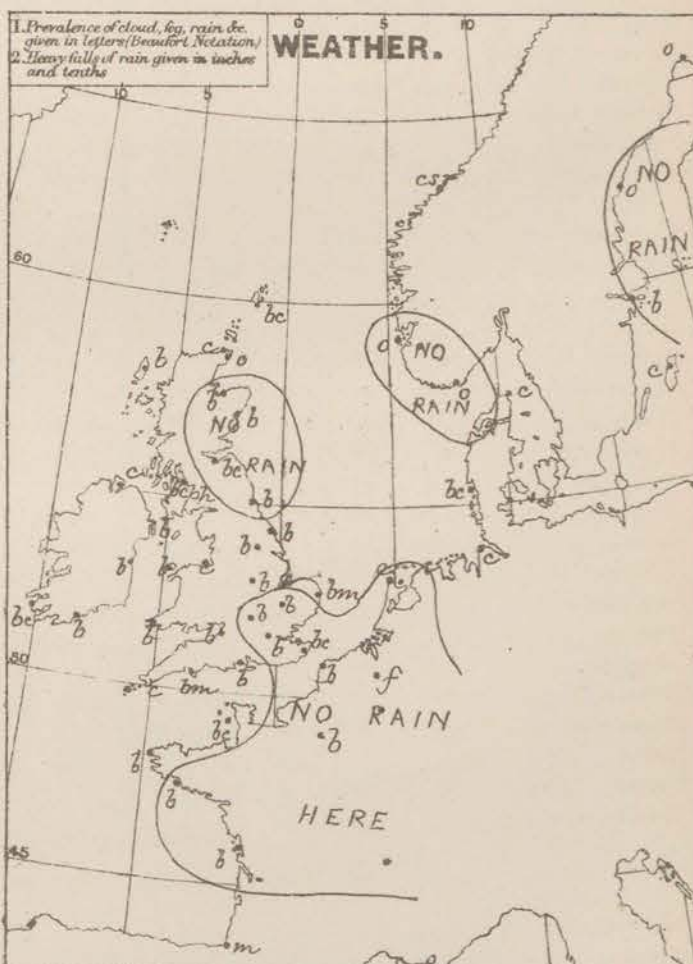
1. Arrows fly with the wind.
 - Force 0 to 10 —→
 - 2, 4 —→ above 10 —→
 - 5, 7 —→
- Dark curved arrow shows apparent general motion of air.
- Sea disturbance: — rough, — high.

WIND & SEA.



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

WEATHER.



REMARKS. Weather is much finer, and has a more settled appearance than for a long while past. The sky is moderately clear in our Islands and France, but overcast in Norway and Sweden; sleet is reported at Christiansund, and hail showers at Andersund. Showers of hail or cold rain fell in the north and north-west yesterday; lunar halo was seen at Aberdeen, and a solar halo at Oxford. Temperature is decreasing gradually, and now varies from 42° on our south-west coasts to 34° over the inland parts of England and the coasts of Scotland. In London a hard frost occurred on the grass during the night. Wind is light to moderate generally. It is chiefly NW in our Islands and N to NE in the Bay of Biscay but blows into W over our south-eastern coasts and Holland, and to SW at Christian. Sea is moderate to smooth.

Barometrical Indications. Readings now vary from nearly 30.4 ins. at Valentia and Lorient to 29.8 ins. on the coast of Norway. The barometer is rising except in the south of France, and gradients for NW winds are established all over the United Kingdom. An anticyclone seems to be advancing over the southern stations from the W.

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.

DAILY WEATHER REPORT

DEC^R 15TH 1877.

STATIONS.	† YESTERDAY EVENING.					8 A.M. TO DAY.										PAST 24 HOURS.		
	Barometer at 3 p.m. and Sea Level.	Temp. in shade.	WIND.		Weather.	BAROMETER.		SEAS.			WIND.		Weather.	Sea (0 to 9.)	SHADE TEMP.		Amount of Rainfall.	
			Dir.	Force. (0 to 13).		Reading at 3 p.m. and Sea Level.	Difference from 8 a.m. yesterday.	Dry.	Wet.	Direction of surface current.	Dir.	Force. (0 to 13).			Max.	Min.		
Haparanda ...	29.87	35	S	2	o	30.00	+ .20	26	25	—	8	Z	o	6	*	36	25	—
Hernösand ...	29.99	28	Z	o	o	30.05	+ .26	23	23	—	11	S	2	o	*	*	*	—
Stockholm ...	29.92	35	SSE	2	o	29.98	+ .11	34	33	+	2	Z	o	g	*	*	*	0.08
Wisby ...	29.98	37	SSW	4	c	30.03	+ .11	38	36	+	3	SW	6	o	*	*	*	0.04
Christiansund ...	29.84	34	SE	2	6	29.83	+ .05	34	33	—	1	SSE	1	ovs	5	36	32	—
Skudesnaes ...	29.98	35	Z	o	6	30.03	+ .23	38	36	—	2	NNH	6	bc	3	41	34	0.12
Oxö (Årland) ...	30.01	33	NNH	4	c	29.97	+ .15	34	33	—	1	NNH	4	c	2	36	32	0.05
Skagen (The Seaw)	30.03	32	Z	o	g	30.04	+ .19	35	35	+	1	SSW	3	o	2	26	27	0.04
Fanö ...	30.10	33	Z	o	bc	30.16	+ .32	38	37	+	1	N	4	c	*	41	32	0.12
Cuxhaven ...	30.05	32	SW	2	c	30.27	+ .34	38	38	+	1	WSW	2	c	*	?	34	0.08
Samburgh Head	29.87	40	NNH	4	c	30.09	+ .23	34	33	—	4	NNE	1	6	2	41	31	0.04
Stornoray	30.10	36	NNH	2	p	30.03	+ .04	42	41	+	4	SSW	3	6	4	42	30	0.17
Thurso ...	30.01	42	N	4	c	30.10	+ .17	36	36	o	SSW	1	o	3	44	34	0.21	
Wick ...	30.03	36	NNH	3	bc	30.11	+ .15	38	37	+	4	SW	1	c	1	40	32	0.08
Nairn ...	30.12	38	N	1	6	?	?	37	36	+	3	Z	o	c	1	40	33	—
Aberdeen ...	30.11	38	N	1	6	30.17	+ .20	38	36	+	4	SW	1	bc	1	42	34	—
Leith ...	30.20	39	WSW	3	bc	30.23	+ .16	41	39	+	5	NNH	3	c	*	43	35	—
Shields ...	30.24	38	NNH	2	bc	30.32	+ .24	39	36	+	3	N	1	bc	2	44	34	—
Scarborough ...	30.25	38	N	2	6	30.35	+ .29	38	37	+	1	WSW	2	c	2	41	36	—
York ...	30.30	37	N	1	6	30.38	+ .28	38	37	+	4	S	1	6	*	42	33	—
Nottingham ...	30.36	35	WSW	2	6	30.47	+ .30	30	30	—	2	SW	1	bc	*	43	29	—
Ardrossan ...	30.25	47	N	2	c	30.24	+ .13	46	43	+	7	SSW	4	o	3	47	35	0.02
Greencastle ...	30.28	40	WSW	2	bc	30.16	+ .01	41	39	+	2	SSW	2	o	*	46	35	0.02
Donaghadee ...	30.32	36	N	1	6	30.29	+ .12	39	38	+	4	WSW	3	bc	2	40	33	—
Kingstown ...	30.40	41	Z	o	6	30.34	+ .11	42	40	+	3	SE	3	c	3	42	37	—
Holyhead ...	30.36	44	NNH	3	6	30.35	+ .16	45	42	+	2	SSW	3	o	2	45	40	—
Liverpool (Bidston)	30.35	42	N	3	c	30.39	+ .23	40	39	—	1	S	2	o	1	44	38	—
Valencia ...	30.41	42	Z	o	bc	30.22	— .14	50	48	+	8	S	8	bc	6	51	40	0.20
Roche's Point...	30.47	40	NNH	2	6	30.32	— .01	49	48	+	11	SW	5	6	4	49	35	0.18
Pembroke ...	30.42	46	NNH	1	6	30.42	+ .16	48	45	+	4	WSW	4	o	3	48	43	—
Portishead ...	30.40	41	N	1	6	30.46	+ .25	38	37	—	1	WSW	3	c	2	46	33	—
Scilly ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Plymouth ...	30.45	39	NNH	2	6	30.52	+ .23	34	33	—	1	SSE	1	om	*	46	31	—
Hurst Castle ...	30.37	44	NNH	1	6	?	?	37	36	o	Z	o	6	o	4	45	31	—
Dover ...	30.35	37	NNH	3	bc	30.53	+ .37	39	37	+	3	NNH	1	6	1	42	35	—
London ...	30.39	40	NNH	1	6	30.57	+ .33	31	31	—	3	WSW	1	c	*	43	28	—
Oxford ...	*	*	*	*	*	30.50	+ .32	34	34	+	1	Z	o	6	*	44	32	—
Cambridge ...	30.36	36	NNH	1	6	30.48	+ .35	32	32	—	2	SW	1	bc	*	46	30	—
Yarmouth ...	30.28	35	NNH	3	bc	30.44	+ .37	33	33	—	1	N	2	bc	3	39	30	—
The Helder ...	*	*	*	*	*	30.35	+ .40	43	42	o	WSW	2	c	*	*	*	*	0.04
Cape Gris Nez	30.32	45	NNH	3	6	30.53	+ .41	43	44	+	2	NNH	2	6	2	45	41	—
Jersey ...	30.49	44	NNH	2	bc	30.59	+ .28	43	40	o	S	1	bc	1	48	41	0.01	
Brest ...	30.49	50	N	1	6	30.57	+ .25	41	41	—	4	E	2	bc	3	50	39	0.04
L'Orient ...	30.50	45	N	3	6	30.62	+ .23	37	36	—	4	NE	2	6	3	48	34	—
Rochefort ...	30.45	48	NNE	3	6	30.58	+ .32	36	36	—	7	NNE	3	6	3	59	?	—
Biarritz ...	30.41	52	NNE	3	6	30.54	+ .29	34	32	—	1	ENE	2	bc	3	?	30	—
Corunna ...	*	*	*	*	*	...	...	...	...	...	...	...	...	...	*	*	*	*
Brussels ...	*	*	*	*	*	30.52	+ .44	33	*	—	1	WSW	6	g	*	*	*	—
Charleville ...	*	*	*	*	*	30.57	...	30	*	...	...	SSW	1	g	*	*	*	*
Paris ...	30.39	39	NNH	2	6	30.60	+ .37	29	?	+	5	NNH	2	g	*	*	*	?
Lyons ...	*	*	*	*	*	30.54	+ .25	42	*	—	2	N	2	6	*	*	*	*
Toulon ...	30.10	46	E	2	bc	30.26	+ .19	46	37	o	NNH	3	o	3	32	45	—	

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

Bar.	Dry.	Wet.	Wind.	Wes.	Sea.	Bar.	Dry.	Wet.	Wind.	Wes.	Sea.				
Skudesnaes ...	30.08	41	39	?	3	r	4	Valencia	30.41	48	44	N	1	bc	2
Thurso	29.98	39	39	WSW	4	c	5	Scilly .....	...	...	...	...	...	...	...
Scarborough ...	30.18	41	38	NNH	2	6	3	London	30.29	42	40	NNH	1	bc	*
Greencastle ...	30.25	44	42	WSW	2	6	*	Rochefort ...	30.34	48	45	NNE	3	6	3
Holyhead	?	45	43	NNH	3	bc	3								

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

	Bar.	Dry.	Wet.	Wind.	Wes.	Sea.		Bar.	Dry.	Wet.	Wind.	Wes.	Sea.		
Skudesnaes ...	30.08	41	39	?	3	r	4	Valencia	30.41	48	44	N	1	bc	2
Thurso	29.98	39	39	WSW	4	c	5	Scilly							
Scarborough ...	30.18	41	38	NNH	2	6	3	London	30.29	42	40	NNH	1	bc	*
Greencastle ...	30.25	44	42	WSW	2	6	*	Rochefort ...	30.34	48	45	NNE	3	6	3
Holyhead	?	45	43	NNH	3	bc	3								

Pressure has increased generally since the morning, but appears to have begun to decrease slightly at Valencia since noon; the wind there is also backing.

EXPLANATION OF COLUMNS.

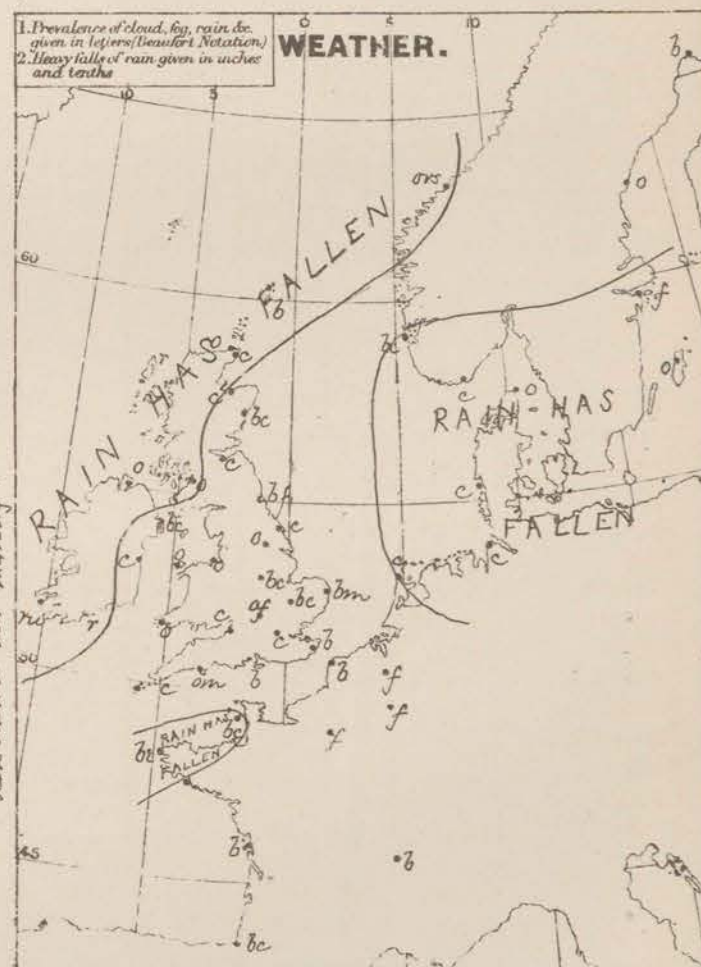
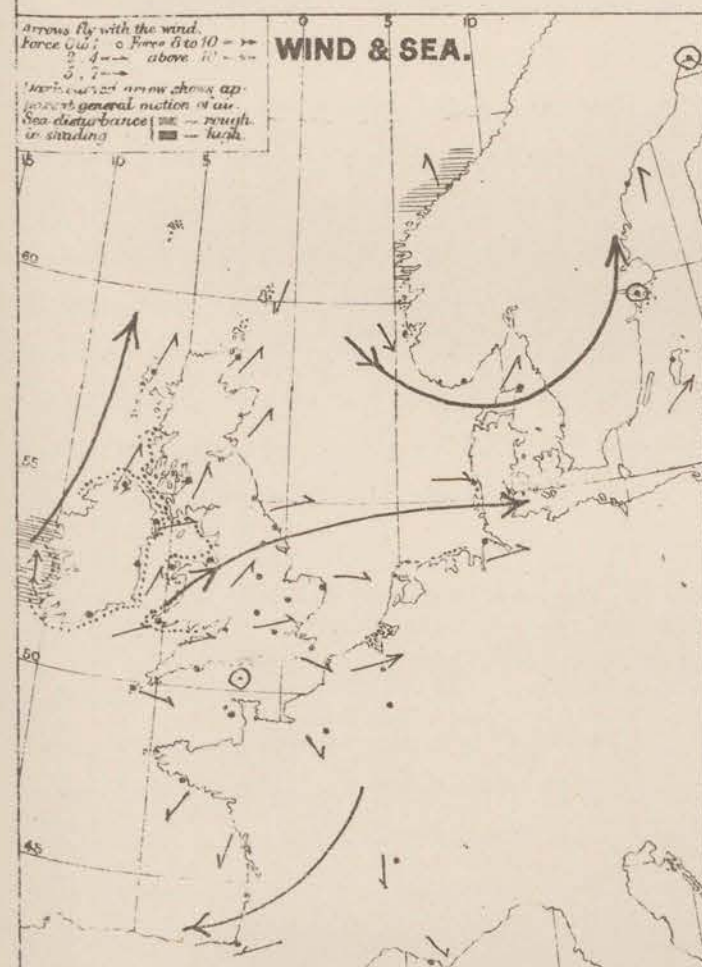
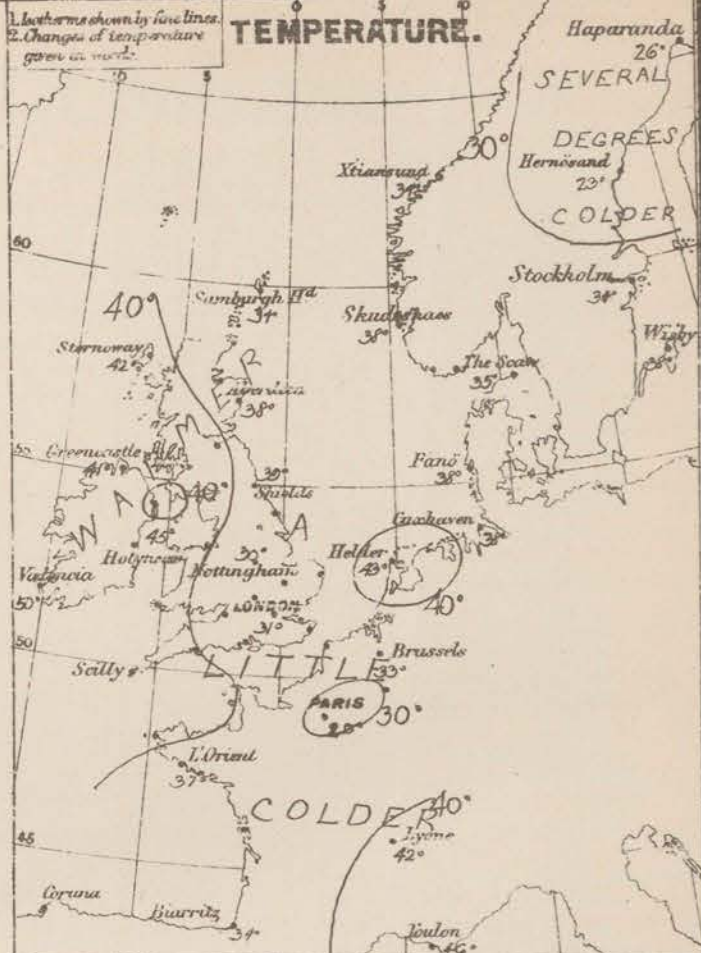
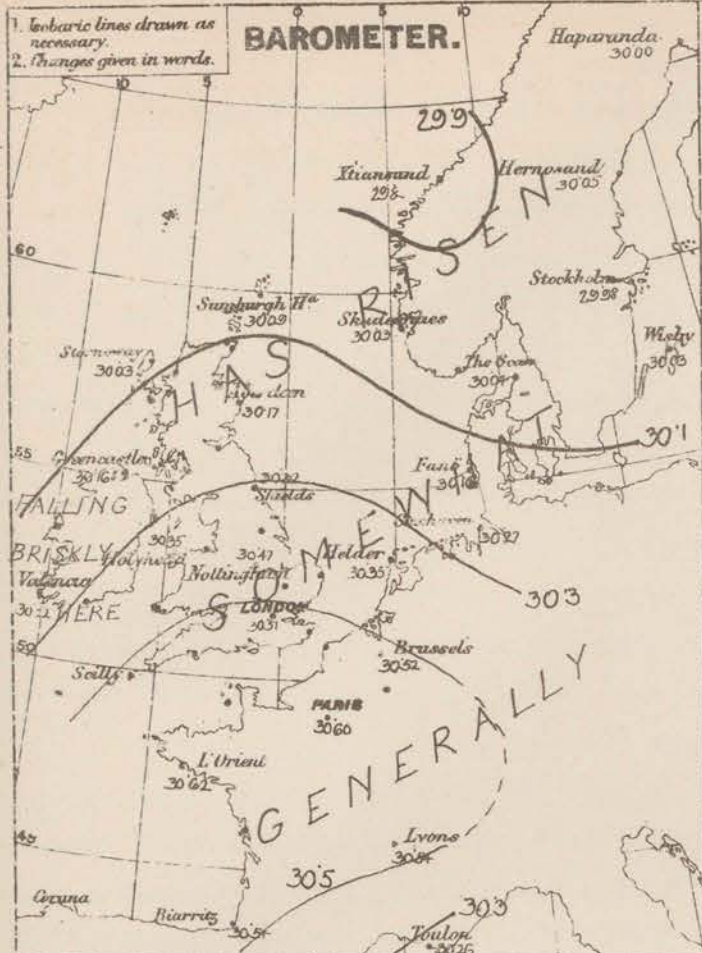
WEATHER.—Beaufort scale is, b. blue sky; c. detached clouds; d. drizzling rain; f. fog; g. dark, gloomy; h. hail; i. lightning; m. misty (hazy); o. overcast; p. passing showers; q. squally; r. rain; s. snow; t. thunder; u. ugly, threatening; v. visibility, unusual transparency; w. dew.

* 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 Saturday 15th Dec^r 1877.



REMARKS. Weather remains fine at the eastern and southern stations and over France, but has again become overcast and unsettled in the west, with rain at Stornoway and in the south of Ireland. Rain fell at the extreme northern stations yesterday, the amounts being 0.2 in at Caithness. Lunar halos have been seen at Valentia and Ardara, and coronas at Aberdeen. Temperatures fell fast over England last night, the lowest reading reported being 29° in the shade at Nottingham, 30° at Yarmouth and Llandudno and 28° in London where the grass thermometer recorded 18°. In Ireland, however, the thermometer has risen quickly and stands at 50° this morning or about 20° higher than at Nottingham and London. Wind is light from W. over the North Sea and over east and south east coasts, but has backed to S. in Ireland and already blows a fresh gale at Valentia. In the west of France it is still light from NE. Sea has become rough off the south west of Ireland and west of Norway, but is slight or smooth elsewhere.

Barometrical Indications. The barometer has risen considerably at all but the western stations, and an area of high pressure, in which readings are about 30.6 in. lies over France. In Ireland, however, the mercury has begun to fall briskly in the night, and the change is spreading to our other western and northern stations.

Warnings. The following has been sent to our western coasts this morning: "Barometer falling again Ireland, rising England, S. gale Valentia. Hoist South Coast. Saturday 9.50 am."

Subscription to these charts payable in advance to cover delivery. Sold by the Post Office, 1d. per quarter, 4s. per year.

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

R. H. SCOTT.
Secretary

SUMMARY OF WEATHER IN WESTERN EUROPE

from DEC^r 9th to DEC^r 15th 1877.

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

No great change has occurred in the general distribution of pressure during this week. The region of highest readings has kept well in the S. (to the SEth, Sth or SWth of these Islands) and depressions have passed along our NW and NE coasts. On the first two days they were not important, but that which crossed Scotland on Tuesday night and Wednesday occasioned fresh gales at most stations. This disturbance passed away Eth, and till the close of the week the disturbances were all unimportant, and the wind light or moderate from SW to N. Temperature has changed considerably and on Friday and Saturday a sharp frost was experienced in the SE. and S. Weather has been unsettled.

DEC^r 9th Pressure was giving way over the greater part of these Islands and France, but was increasing slightly on our extreme NEth coasts, and on the eastern shores of the North Sea. Readings were highest over the Netherlands, lowest to the NWth of the British Isles. At Valentia the decrease was brisk and a fresh disturbance was apparently moving towards that station. Wind varied from E over the Bay of Biscay, through S. on our NW coast to SW in the NE. It blew with the force of a gale at Valentia, and was strong at the other western stations, but was moderate or light elsewhere. Temperature had fallen in France but risen in most other places - quickly in the S. of England. In France the weather was very cold, Rochefort 41°, being 4° colder than London, and Paris 13° colder. Sky was clear at some of the French and the SEth stations, dull or cloudy elsewhere, rain in Ireland. In the afternoon the barometer was still falling everywhere, but the wind had gone down.

DEC^r 10th The mercury was lower in Scandinavia - especially over France, the distribution of pressure was irregular the highest readings being shown over Denmark, and the S. of Sweden, while in addition to the main area of low pressure lying to the NWth of Scotland, small disturbances were shown over the St George Channel, and the Bay of Bay of Biscay. Wind was Eth over the North of France, SEth over England and the North Sea, but still drew into SW in Scotland, while at Morville and Cork, NWth breezes were reported. Little change had occurred in temperature over Scotland, but elsewhere it had fallen, and was low over the SE. of England. Weather was fine though misty in the SE. and S. but was dull in the other districts with rain in the NW. The depression from the St George Channel did not change its position much during the day but gradually filled up, and at 6 P.M. the barometer showed a rise everywhere.

DEC^r 11th The changes and distribution of pressure continued irregular. The barometer had fallen quickly during the night in Ireland, while it had risen briskly in the west of France, and slightly over the remainder of that country and the greater part of England. Readings were high both in the S. of Sweden and over the Bay of Biscay, while slight depressions were shown off our SEth, NEth, and NW coasts. Wind was Nth in the N. of France but varied between SW and SE elsewhere, it blew a fresh gale at Valentia and Skudomass, but was moderate or light on most other coasts. Temperature had fallen except over the Bay of Biscay and S. of Ireland; it was below 40° over nearly the whole of England and Scotland, and was lowest in the SE. (Paris 29°, London 26°) Weather was again fine in the SE. but was dull or cloudy elsewhere with rain at Valentia, and a good deal of fog or mist in the E. During the day a deep depression passed NEth along our NW coasts and the wind rose to a fresh or hard gale in the N. and N.

DEC^r 12th The depression noticed off the NW coast on the previous evening, had apparently passed across Scotland during the night. It proved to be large and complex, two distinct centres being shown, one over the NE. of Scotland, the other between the Orkneys and Shetlands. The mercury was rising in Ireland and the west of Scotland, falling elsewhere; gradients were steep. Wind was still strong to a gale generally and during the night a fresh gale had been experienced on most coasts. It was NWth to Nth in

direction in the west, $SW\frac{1}{2}$ in the southeast and east, and $S\frac{1}{2}$ on the eastern shores of the North Sea. Temperature had fallen slightly in the extreme N., but risen elsewhere - very quickly over England. Weather was very unsettled, and overcast or very cloudy at most stations. Rain was reported in places and hail at Valentia. Later Reports showed that the depression was moving away across the North Sea, and the barometer rising everywhere, while the winds had died down.

DEC^r 13th The mercury had fallen briskly over Scandinavia, and slightly over France, but had recovered over the British Isles. The disturbance of the previous day had apparently travelled $NE\frac{1}{2}$, and a large area of low pressure lay to the NW of these Islands. Readings varying from 29.4 in., to 30.2 in.: in the south of France. Wind was $NW\frac{1}{2}$ over the Bay of Biscay, but $N\frac{1}{2}$ to $SW\frac{1}{2}$ on our coast, and in Norway and Denmark. Temperature had fallen several degrees at our own and the few French stations, but was slightly higher in Norway. Weather had become finer generally, though rain was falling at Arras, Rouen, and Skudenæs, hail showers at Romsdal and Oslo. Pressure increased everywhere during the day and the wind showed a tendency to veer to NW .

DEC^r 14th The mercury still rose over the whole of western Europe, the change varying from over half an inch in the NW to less than one tenth of an inch in the SE . A large area of high pressure 30.3 in.: was shown in the SW , while the lowest reading 29.8 in.: lay over Scandinavia. Wind was moderate or light generally, it was $NW\frac{1}{2}$ over England and $N\frac{1}{2}$ over France, but $S\frac{1}{2}$ over Norway and Sweden. Temperatures had changed very little. Weather was fine in most places but in the Clyde hail showers were reported, while in the north of Scotland, and in Norway and Sweden the sky was overcast. Later in the day the barometer ceased rising at Valentia, but the increase continued elsewhere.

DEC^r 15th Pressure had given way briskly during the night at Valentia, and to a less extent at our other NW stations, and in the West of Norway, in all other places the increase continued. An area of high readings (30.6 in.:) lay over the north-west of France, while one depression appeared to be advancing to the west coast of Ireland, and a second lay near Christiansund. Wind blew a gale from S at Valentia, but in all other places it was moderate or light - from SW in the west, from N in the east and south, and from NE over the Bay of Biscay. Temperature had risen several degrees in the West and North, but had fallen over Central England, and NW and Central France. In both these districts the weather was very cold. Weather was fine at many of the more eastern and southern stations, but had become dull and unsettled in the N . At 6 P.M. the barometer was recovering in the N , though still falling elsewhere. The depression was passing away $NE\frac{1}{2}$ along our ^{north} western coast.

DAILY WEATHER REPORT

DEC 16TH 1877.

STATIONS.	† YESTERDAY EVENING.						6 A.M. TO DAY.										PAST 24 HOURS.		
	Barometer at 32° F. and Sea Level.	Temp. in shade.	WIND.		Weather.	Barometer. Reading at 32° F. and Sea Level.	Difference from 6 a.m. yesterday.	SHADE TEMP.			WIND.		Weather.	Sea. (0 to 9).	SHADE TEMP.		Amount of Rainfall.		
			Dir.	Force. (0 to 12).				Dry.	Wet.	Difference from 6 a.m. yesterday.	Dir.	Force. (0 to 12).			Max.	Min.			
Haparanda ...	30.03	33	Z	0	o	29.99	-.01	31	30	+ 5	SH	2	S	*	2	21	-		
Hernösand ...	30.02	21	SH	2	o	29.97	-.08	20	20	- 3	H	2	S	*	*	*	-		
Stockholm ...	30.02	33	SH	2	o	? 30.00	+ .02	33	33	- 1	Z	0	f	*	*	*	-		
Wisby ...	30.07	25	SH	4	c	?	?	36	35	- 2	?	6	c	*	*	*	-		
Christiansund ...	29.98	33	SH	4	s	29.91	+ .08	29	28	- 5	NNH	4	6	4	34	28	-		
Skudesnaes ...	30.07	36	Z	0	c	29.84	-.14	38	37	0	SE	6	r	4	?	36	0.12		
Oxö (Xtiansad) ...	30.09	33	NNH	4	z	29.99	+ .02	32	28	- 2	NNE	4	o	2	37	28	-		
Skagen (The Seal) ...	30.05	36	NNH	3	c	29.99	-.05	35	32	0	Z	0	o	0	39	28	0.04		
Faro ...	30.16	37	Z	0	c	29.89	-.27	39	39	+ 1	SSE	4	m	*	41	36	0.16		
Cuxhaven ...	30.30	3	H	3	r	30.05	-.22	42	42	+ 4	NNH	4	o	*	?	36	0.29		
Sumburgh Head ...	29.93	41	SE	3	r	29.84	-.25	44	42	+ 10	NNH	2	6	3	45	31	0.34		
Stornoway ...	29.90	41	NNH	3	6	29.94	-.09	48	48	+ 6	H	4	dec	4	49	40	0.46		
Thurso ...	29.92	40	SSE	1	r	29.90	-.20	40	40	+ 4	Z	0	ff	2	44	35	0.36		
Wick ...	29.91	42	S	1	r	29.93	-.18	41	41	+ 3	H	1	m	0	43	37	0.20		
Nairn ...	29.90	40	H	2	r	29.93	?	41	40	+ 4	H	1	r	1	46	36	0.11		
Aberdeen ...	29.97	42	SSH	2	r	29.94	-.23	41	40	+ 3	SSH	1	r	1	44	38	0.37		
Leith ...	29.97	?	NNH	4	o	30.01	-.22	30	48	+ 9	H	5	o	*	51	40	-		
Shields ...	30.12	42	SSH	5	o	30.08	-.24	46	44	+ 7	H	4	r	2	48	38	0.12		
Scarborough ...	30.20	39	SSH	5	r	30.12	-.23	44	40	+ 6	H	2	r	2	44	38	0.19		
York ...	30.22	40	SH	2	o	30.19	-.19	47	45	+ 9	H	3	o	*	48	37	0.02		
Nottingham ...	30.02	41	SSH	4	r	30.28	-.19	44	43	+ 14	SSH	3	o	*	44	30	0.10		
Ardrossan ...	30.04	50	H	6	6	30.09	-.15	30	49	+ 4	NNH	6	o	3	51	45	0.37		
Greencastle ...	30.12	44	H	2	o	30.19	+ .03	30	48	+ 9	H	4	ow	*	51	40	0.16		
Donaghadee ...	30.21	42	NNH	3	o	30.22	-.07	48	47	+ 9	NNH	5	o	2	48	38	0.18		
Kingstown ...	30.27	47	H	4	6	30.35	+ .01	49	46	+ 7	H	5	c	4	49	40	0.02		
Holyhead ...	30.28	48	SH	4	c	30.32	-.03	43	42	- 2	NNH	7	m	5	49	?	0.19		
Liverpool (Bidston) ...	30.23	47	NNH	6	6	30.25	-.14	47	46	+ 7	H	8	o	4	49	39	-		
Valencia ...	30.40	47	NNH	1	6	30.37	+ .29	46	45	- 4	H	2	6	2	53	44	0.26		
Roche's Point ...	30.42	42	H	4	6	30.48	+ .16	41	40	- 8	NNH	1	6	3	50	40	0.25		
Pembroke ...	30.35	49	SH	6	c	30.43	+ .01	49	48	+ 1	H	4	6	3	51	48	0.03		
Portishead ...	30.38	42	NNH	4	c	30.39	-.07	45	44	+ 7	NNH	5	c	4	48	36	0.04		
Scilly ...																			
Plymouth ...	30.47	48	SH	4	o	30.50	-.02	40	40	+ 6	NNH	1	6	*	50	33	0.03		
Hurst Castle ...	30.44	48	H	4	o	30.40	?	47	45	+ 10	H	4	c	4	49	32	0.02		
Dover ...	30.50	41	H	2	6	30.37	-.16	45	42	+ 6	NNH	2	6	2	47	38	-		
London ...	30.46	43	NNH	2	o	30.35	-.16	43	42	+ 12	NNH	3	o	*	46	31	0.01		
Oxford ...	*	*	*	*	*	30.38	-.12	42	41	+ 8	SH	1	om	*	46	34	-		
Cambridge ...	30.39	39	SH	1	o	30.30	-.18	43	42	+ 11	NNH	1	r	*	44	31	0.05		
Yarmouth ...	30.39	37	NNH	3	6	30.25	-.19	42	42	+ 9	NNH	2	mg	2	42	31	0.05		
The Helder ...	*	*	*	*	*	30.16	-.19	46	44	+ 3	H	2	c	*	*	*	0.08		
Cape Gris Nez ...	30.51	46	H	3	6	30.38	-.15	48	46	+ 5	NNH	5	o	4	?	41	0.16		
Jersey ...	30.59	47	SH	5	o	30.34	-.05	49	46	+ 6	NNH	4	cm	4	50	43	0.02		
Brest ...	30.55	48	NNH	4	o	30.58	+ .01	50	46	+ 9	NNH	3	o	5	50	41	0.04		
L'Orient ...	30.63	45	SH	3	o	30.60	-.02	32	46	+ 15	NNH	3	o	2	52	34	-		
Rochefort ...	30.59	45	NE	2	6	30.63	+ .05	34	30	- 2	SE	2	f	3	48	32	-		
Biarritz ...	30.60	46	SE	1	6	30.64	+ .10	36	34	+ 2	SE	1	6	3	?	31	-		
Corunna ...	*	*	*	*	*	30.50	+ .11	41	*	- 4	NE	3	6	2	*	*	*		
Brussels ...	*	*	*	*	*	30.35	-.17	36	*	+ 3	SH	6	r	*	*	*	0.11		
Charleville ...	*	*	*	*	*	? 30.41	-.10	43	*	+ 3	SH	1	o	*	*	*	*		
Paris ...	30.62	32	S	2	f	30.52	-.08	33	32	+ 4	S	2	o	*	*	*	-		
Lyons ...	*	*	*	*	*				*					*	*	*	*		
Toulon ...	30.36	48	NE	1	6	30.39	+ .13	43	37	- 3	NE	1	6	3	50	?	-		

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

	Bar.	Dry.	Wet.	Wind.	Wes.	Sea.		Bar.	Dry.	Wet.	Wind.	Wes.	Sea.		
Skudesnaes ...	30.09	36	33	NNH	2	c	2	Valencia	30.31	32	49	NNH	4	6cm	4
Thurso	29.98	40	40	S	2	o	3	Scilly							
Scarborough ...	30.20	40	38	SH	2	c	2	London	30.50	42	40	NNH	2	o	*
Greencastle ...	30.04	44	43	SH	3	o	*	Rochefort ...	30.58	45	43	NNE	1	6	3
Holyhead	30.27	48	47	SH	6	tu	4								

The barometer still falls briskly in the N. and N.H. but has risen a little at Valencia, where the wind has veered to West and moderated. A strong SH^{ly} breeze is blowing at Holyhead.

EXPLANATION OF COLUMNS.

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

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

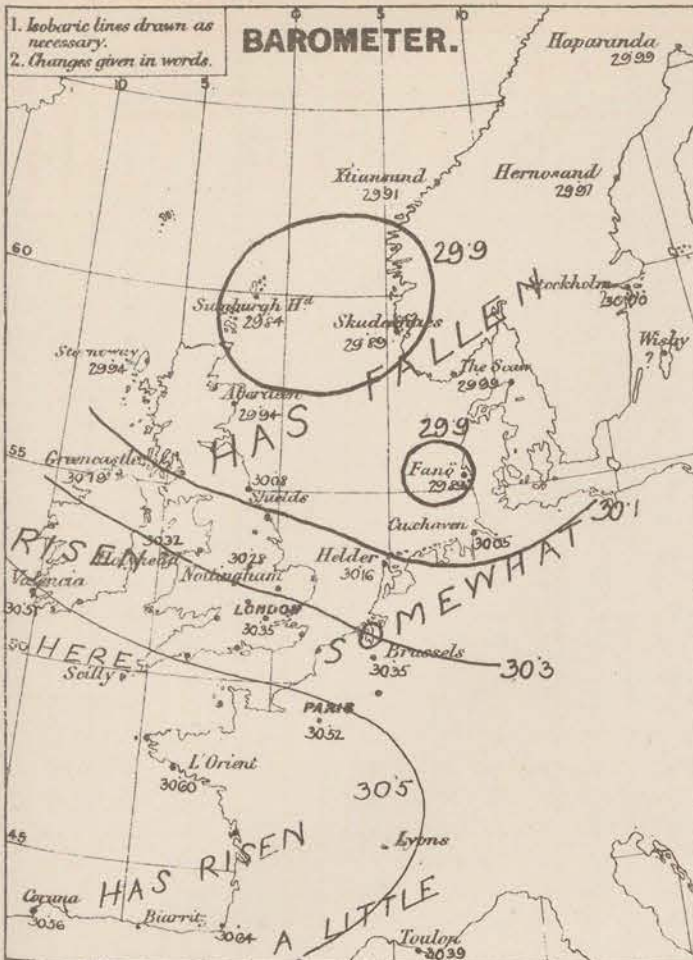
† The evening observations are taken at 6 p.m. in our Islands, at 5 p.m. (Christiania time) in Sweden, Norway, and Denmark, and at 7 p.m. (Paris time) in France.

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 16th DEC^r 1877.

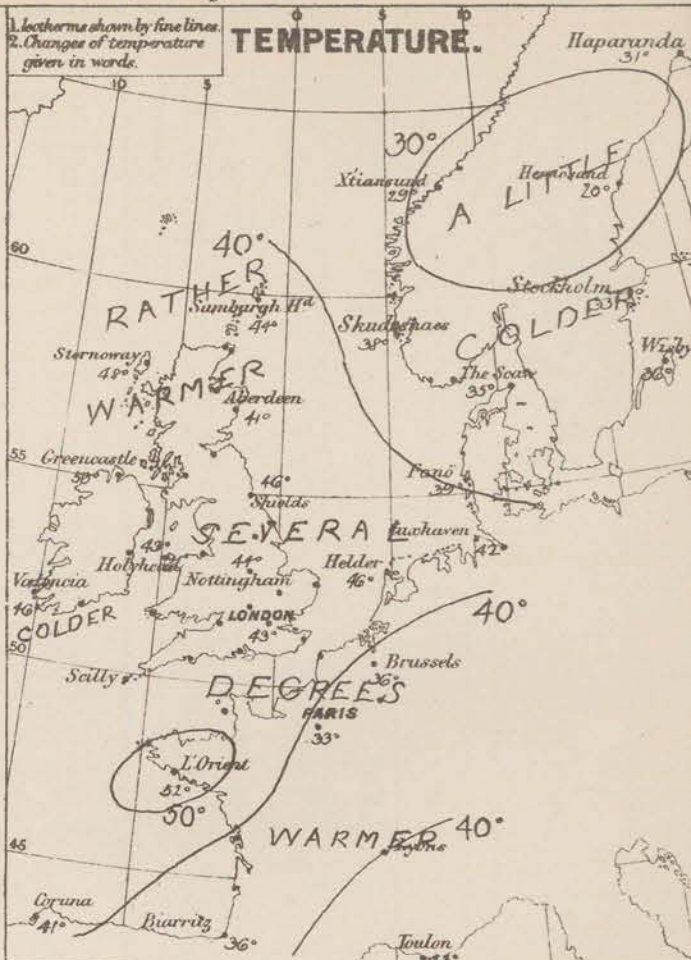
1. Isobaric lines drawn as necessary.
2. Changes given in words.

BAROMETER.



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

TEMPERATURE.



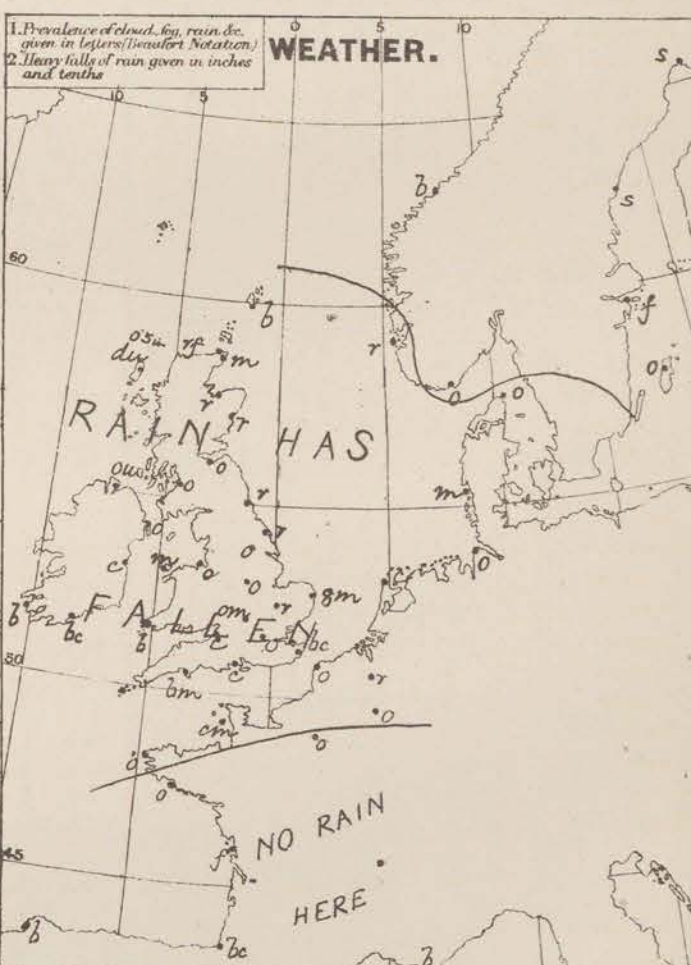
1. Arrows fly with the wind Force 0 to 10 -> 2, 4, 6, 8, 10 -> 5, 7, 9 ->
2. Dark curved arrow shows apparent general motion of air.
3. Sea disturbance: rough in shading, high in shading.

WIND & SEA.



1. Prevalence of cloud, fog, rain, etc. given in letters (direction notation).
2. Heavy falls of rain given in inches and tenths.

WEATHER.



Note: A dotted line is drawn round these coastlines which the warning signals are still flying.

REMARKS. Weather is clear in the south of Ireland and also in the extreme south of France, but is very dull in all other places; rain is falling on our north and north-east coasts, and snow on the shores of the Gulf of Bothnia. Lunar halos were seen in some parts of the country last night. Rain fell in many places yesterday, but the amount was not large excepting at Stornoway, where nearly half an inch has been measured. Temperature has fallen a little over the south of Ireland and also in Sweden but rises several degrees in other places—as much as 12° in London. Readings vary from 40° to 50° over the whole of these Islands. Wind is W on our coasts, but is veering NW in the west; in Scandinavia variable breezes prevail, while in the south-west of France the wind is SE. The winds are strong on our north-west coasts, but moderate or light elsewhere. Sea is rather rough at Holyhead, moderate or smooth at our other ports.

Barometrical Indications. The depression which was approaching our western coasts yesterday has travelled NE, and now lies between the coasts of Scotland and Norway. The barometer is consequently rising again in the west, while it falls in the east and south-east. The area of high pressure, in which readings are above 30.6 in., is still lying over France.

Warnings. The warning signals which were hoisted yesterday morning are still flying in the west.

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^r 17th

1877.

STATIONS.	† YESTERDAY EVENING.					8 A.M. TO DAY.										PAST 24 HOURS.		
	Barometer at 32° F. and Sea Level.	Temp. in shade.	WIND.		Weather.	BAROMETER.		SHADE TEMP.			WIND.		Weather.	Sea. (0 to 9.)	SHADE TEMP.		Amount of Rainfall.	
			Direc.	Force. (0 to 12).		Reading at 32° F. and Sea Level.	Difference from 8 a.m. yesterday.	Dry.	Wet.	Difference from 8 a.m. yesterday.	Direc.	Force. (0 to 12).			Max.	Min.		
Haparanda ...	30.03	28	SW	2	0	30.24	+ .25	24	24	— 7	Z	0	0	*	?	23	0.35	
Hernösand ...	30.12	20	NNH	2	0	30.27	+ .30	22	21	+ 2	N	2	0	*	*	*	0.04	
Stockholm ...	29.91	13	Z	0	0	30.01	?	32	32	— 1	N	6	S	*	*	*	0.12	
Wisby ...	29.96	39	NNH	4	C	29.97	?	33	32	— 3	E	6	C	*	*	*	0.08	
Christiansund ...	30.13	28	ESF	2	6	30.01	+ .10	31	31	+ 2	ESE	2	0	3	?	?	0.43	
Skudesnaes ...	30.06	40	E	5	0	30.21	+ .02	37	33	— 1	SSE	8	0	4	41	37	—	
Oxö (Xtiansand) ...	30.41	31	N	4	0	?	?	29	26	— 3	N	4	6	2	?	27	—	
Skagen (The Seaw) ...	30.13	33	NNE	4	0	30.26	+ .27	31	29	— 4	NE	3	6	21	37	27	0.04	
Fanö ...	30.12	36	NNH	4	C	30.25	+ .36	34	34	— 5	E	4	HS	*	39	32	0.08	
Cuxhaven ...	29.94	28	NNH	5	T	30.28	+ .23	48	48	+ 6	SW	1	C	*	?	36	0.04	
Sumburgh Head ...	30.05	42	SW	2	6	29.89	+ .05	47	45	+ 3	SW	4	0	5	48	40	0.03	
Stornoway ...	30.12	47	WSW	2	0	29.86	— .08	48	45	0	SW	5	T	5	49	45	0.29	
Thurso ...	30.08	43	?Z	2	T	29.91	+ .01	46	45	+ 6	SSW	2	0	3	47	39	0.07	
Wick ...	30.12	45	N	1	m	29.94	+ .01	46	45	+ 5	S	2	C	1	47	35	0.03	
Nairo ...	30.14	48	SW	1	0	30.00	+ .07	48	45	+ 7	SW	2	C	1	49	40	0.01	
Aberdeen ...	30.14	45	Z	0	T	30.05	+ .11	41	40	0	SSW	1	6	1	46	39	0.08	
Leith ...	30.19	49	N	4	6	30.12	+ .11	46	45	— 4	SW	4	C	*	53	45	—	
Shields ...	30.20	50	N	3	0	30.24	+ .16	45	42	— 1	NNH	1	6	2	51	44	0.08	
Scarborough ...	30.20	50	NNH	4	m	30.26	+ .14	41	40	— 3	WSW	1	6	2	50	41	0.15	
York ...	30.25	50	NNH	1	0	30.27	+ .08	45	43	— 2	SW	1	0	*	50	40	—	
Nottingham ...	30.20	50	NNH	5	0	30.37	+ .09	43	43	— 1	SW	1	0	*	51	39	—	
Ardrossan ...	30.27	50	NNH	3	T	30.17	+ .08	48	46	— 2	SSW	3	0	2	51	48	0.02	
Greencastle ...	30.20	48	N	2	0	30.14	— .05	46	45	— 4	N	2	0	*	51	45	0.01	
Donaghadee ...	30.35	48	NNH	3	6	30.21	— .01	46	45	— 2	WSW	3	C	2	49	44	—	
Kingstown ...	30.40	50	NNH	6	C	30.33	— .02	47	44	— 2	SSE	1	C	2	50	46	—	
Holyhead ...	30.38	50	NNH	5	0	30.33	+ .01	46	44	+ 3	SW	3	0	2	51	44	—	
Liverpool (Bidston) ...	30.34	48	N	5	0	30.34	+ .09	45	43	— 2	WSW	2	0	1	49	44	0.01	
Valencia ...	30.50	47	Z	0	C	30.38	— .03	50	50	+ 4	SW	4	C	4	52	45	0.04	
Roche's Point... ..	30.49	46	NNH	2	6	30.40	— .08	48	46	+ 7	N	3	0	3	50	41	—	
Pembroke ...	30.45	48	NNH	1	6	30.40	— .03	48	47	— 1	WSW	3	0	3	51	48	—	
Portishead ...	30.40	46	NNH	4	0	30.39	— .00	46	44	+ 1	WSW	3	0	3	48	40	—	
Seilly ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Plymouth ...	30.49	47	NNH	1	0	30.48	— .02	45	44	+ 5	WSW	2	0	*	49	36	—	
Hurst Castle ...	30.44	49	NNH	4	0	30.45	+ .05	44	43	— 3	NNH	2	0	3	50	42	—	
Dover ...	30.25	48	NNH	5	C	30.41	+ .04	47	46	+ 2	N	2	C	1	49	44	0.04	
London ...	30.32	49	NNH	4	0	30.40	+ .05	45	44	+ 2	N	2	C	*	49	43	—	
Oxford ...	...	...	...	...	...	30.41	+ .00	40	39	— 2	WSW	1	C	*	48	38	—
Cambridge ...	30.26	48	N	3	0	30.39	+ .09	44	43	+ 1	SW	1	0	*	50	43	0.01	
Yarmouth ...	30.15	47	NNH	5	T	30.35	+ .10	44	44	+ 2	NNH	2	6	2	48	40	0.05	
The Helder ...	...	...	...	...	...	30.32	+ .16	44	43	— 2	NNH	1	C	*	*	*	0.24
Cape Gris Nez ...	30.28	48	N	6	0	30.37	— .01	48	46	0	N	1	0	2	50	46	0.04	
Jersey ...	30.30	50	NNH	5	C	30.37	— .03	48	45	— 1	NNH	3	C	3	51	46	—	
Brest ...	30.39	30	NNH	4	C	30.56	— .02	48	45	— 2	NNH	2	0	3	52	46	—	
L'Orient ...	30.58	48	NNH	3	6	30.57	— .00	46	45	— 6	NNH	4	0	3	52	45	0.08	
Rochefort ...	30.61	48	NNH	3	0	30.49	— .14	48	46	+ 14	N	5	0	3	?	28	0.04	
Biarritz ...	30.43	45	NE	1	f	30.56	— .08	41	37	+ 5	S	3	0	3	?	27	—	
Corunna ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Brussels ...	...	...	...	...	...	30.39	+ .04	41	*	+ 5	?NNH	3	f	*	*	*	0.66
Charleville ...	...	...	...	...	...	30.26	— .15	39	*	+ 6	WSW	3	0	*	*	*	*
Paris ...	30.35	42	N	3	0	30.43	— .09	46	44	+ 13	NNH	2	0	*	*	*	0.04	
Lyons ...	...	...	...	...	...	30.38	...	46	*	...	N	2	0	*	*	*	*
Toulon ...	30.25	46	NNH	1	6	30.36	— .23	45	39	+ 2	NNH	7	6	7	48	?	—	

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

Bar.	Dry.	Wet.	Wind.	Wet.	Sea.	Bar.	Dry.	Wet.	Wind.	Wet.	Sea.
Skudesnaes ...	29.96	42	41	SSE	6	?	5	Valencia ...	...	...	...
Thurso	Seilly ...	...	...	...
Scarborough	London ...	...	...	...
Greencastle	Rochefort ...	30.60	39	39
Holyhead	SE	2	m

EXPLANATION OF COLUMNS.

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

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

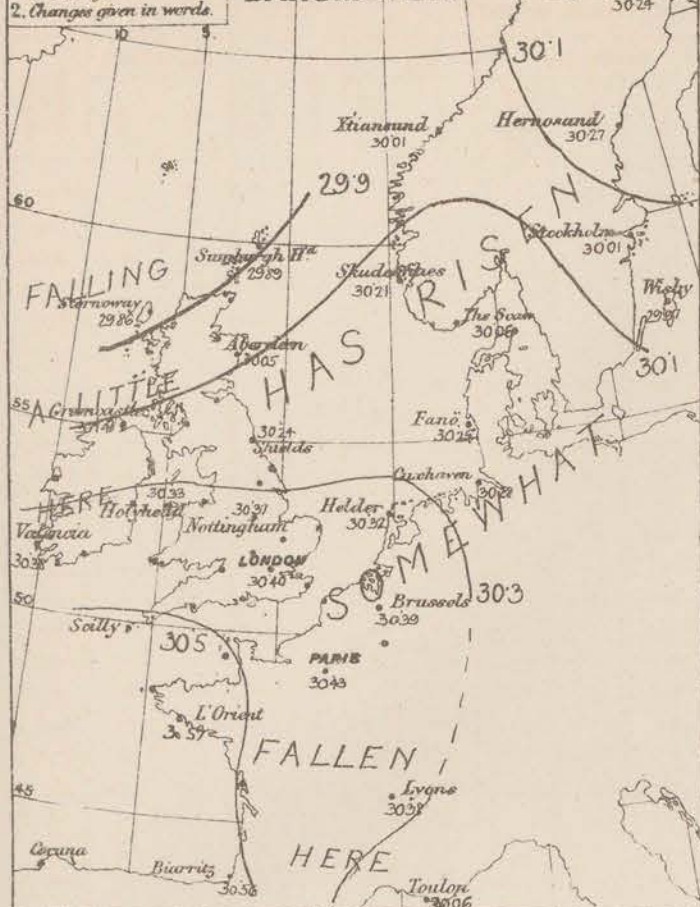
† The evening observations are taken at 6 p.m. in our Islands, at 8 p.m. (Christiania time) in Sweden, Norway, and Denmark, and at 7 p.m. (Paris time) in France.

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

WEATHER CHARTS for 8 a.m. on Monday 17th DEC^R 1877.

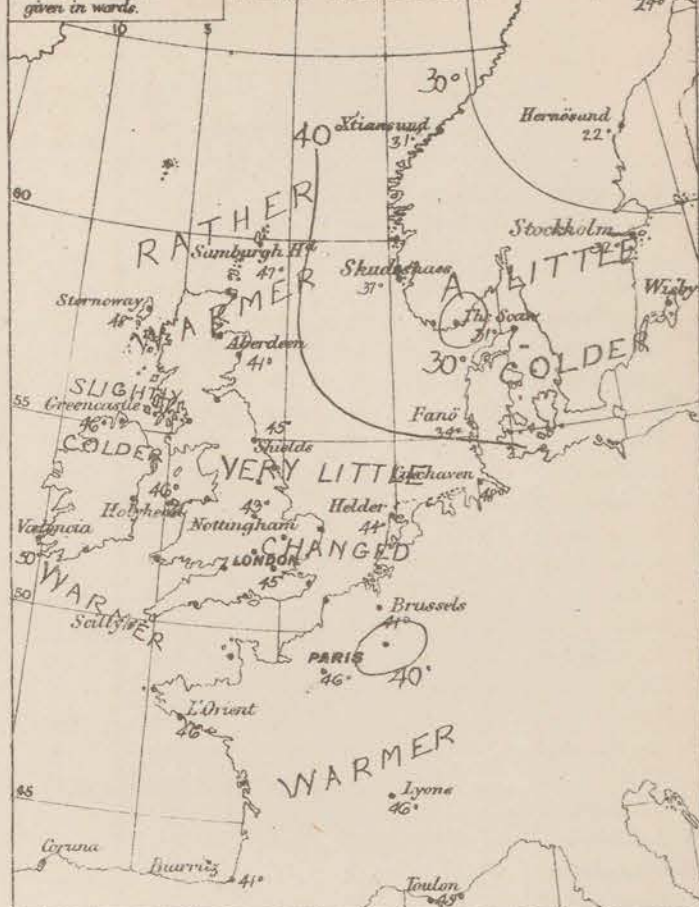
1. Isobaric lines drawn as necessary.
2. Changes given in words.

BAROMETER.



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

TEMPERATURE.



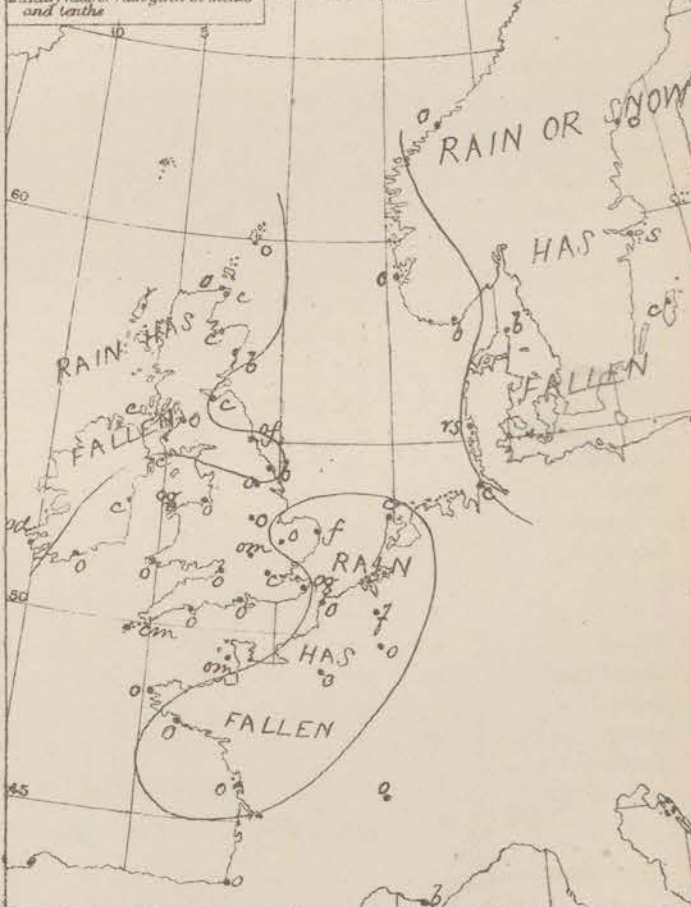
- Arrows fly with the wind.
Force 0-1 = 0 force 2-10 = 10
2-4 = 10-20
5-7 = 20-30
Dark curved arrow shows apparent general motion of air.
Sea disturbance (—) = rough in shading (■) = high

WIND & SEA.



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

WEATHER.



REMARKS. Weather is locally clear at Aberdeen and in the Orkney Islands, dull or very cloudy elsewhere, with drizzling rain at Valentia, rain at Stornoway, snow at Stockholm and Fano, and fog at some of our eastern stations. Rain fell in the north and east yesterday. Temperature has risen in the south west, as well as in the north of Scotland but has fallen elsewhere; it varies from 41° to 48° over Scotland, from 46° to 50° over Ireland and from 41° to 50° over England. In Sweden the weather is cold. Wind is light except at Skudshus, it is W to SW in direction over Ireland and Scotland, and W to WNW over England, while over France it draws into N. It varies considerably in direction at the Scandinavian stations. Sea is rough in the north, slight or smooth elsewhere. Barometrical Indications Pressure is increasing slightly in the east and south east and over Denmark, but is decreasing elsewhere - briskly in the north west. A fresh depression of slight importance lies off the northern Scotch coast (29.9 in) while a large area of high readings (30.5 in) lies to the SW of these Islands.

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

R. H. SCOTT.

Secretary

DAILY WEATHER REPORT

DEC^r 18th

1877.

STATIONS.	† YESTERDAY EVENING.					8 A.M. TO DAY.										PAST 24 HOURS.		
	Barometer at 32° F. and Sea Level.	Temp. in shade.	WIND.		Weather.	BAROMETER.		SHADE TEMP.			WIND.		Weather.	Sea. (0 to 9.)	SHADE TEMP.		Amount of Rainfall.	
			Dir.	Force (0 to 12).		Reading at 32° F. and Sea Level.	Difference from 8 a.m. yesterday.	Dry.	Wet.	Difference from 8 a.m. yesterday.	Dir.	Force (0 to 12).			Max.	Min.		
Haparanda ...	30.30	28	S	4	o	30.27	+ .03	30	30	+ 6	S	2	o	*	30	23	-	
Hernösand ...	30.30	25	Z	o	o	30.28	+ .01	27	26	+ 5	Z	o	o	*	*	*	-	
Stockholm ...	30.17	31	Z	o	o	30.17	+ .16	25	24	- 7	Z	o	o	*	*	*	0.08	
Wisby ...	30.08	33	NE	4	o	30.14	+ .17	35	34	+ 2	SE	4	o	*	*	*	-	
Christiansund ...																		
Skudesnaes ...	29.95	37	SE	8	o	30.21	.00	36	36	- 1	SE	2	o	4	?	?	0.12	
Oxö (Xtiansand) ...	30.15	35	SE	4	o	30.20	?	31	31	+ 2	NHE	4	o	3	36	28	0.12	
Skagen (The Seaw) ...	30.21	31	ESE	3	o	30.23	- .03	33	31	+ 2	E	2	o	1	34	25	-	
Fanö ...	30.11	35	SSE	6	o	30.06	- .19	37	37	+ 3	E	4	o	*	?	32	0.20	
Cuxhaven ...	30.27	41	NSE	3	o	30.06	- .22	43	43	- 5	NH	3	o	*	?	36	0.20	
Sumburgh Head ...	29.87	46	NH	5	o	30.26	+ .37	44	42	- 3	NH	2	o	3	47	41	0.60	
Stornoway ...	30.09	42	H	4	o	30.34	+ .48	43	41	- 5	SH	1	o	3	49	35	0.24	
Thurso ...	30.01	45	NH	5	o	30.33	+ .42	40	39	- 6	SSH	1	o	3	49	38	0.13	
Wick ...	30.00	43	NH	3	o	30.36	+ .42	40	38	- 6	H	3	o	2	47	35	0.04	
Nairn ...	30.10	44	H	3	o	30.38	+ .38	40	39	- 8	H	1	o	1	50	37	0.05	
Aberdeen ...	30.08	45	Z	o	o	30.39	+ .34	38	35	- 3	H	1	o	1	48	37	-	
Leith ...	30.15	48	H	3	o	30.47	+ .35	39	38	- 7	H	2	o	*	50	38	-	
Shields ...	30.17	47	H	2	o	30.48	+ .24	38	36	- 7	NH	2	o	2	49	36	0.01	
Scarborough ...	30.19	46	NH	2	o	30.47	+ .21	40	38	- 1	NH	2	o	2	47	40	-	
York ...	30.24	47	SH	3	o	30.57	+ .24	36	35	- 9	SH	1	o	*	48	35	-	
Nottingham ...	30.32	47	NH	3	o	30.55	+ .18	38	37	- 5	N	1	o	*	49	36	-	
Ardrossan ...	30.25	49	H	4	o	30.48	+ .31	42	41	- 6	E	1	o	*	52	41	0.06	
Greencastle ...	30.28	47	NH	3	o	30.47	+ .33	42	41	- 4	Z	o	o	*	52	40	0.05	
Donaghadee ...	30.33	48	NH	2	o	30.53	+ .32	36	36	- 10	NH	2	o	1	49	36	-	
Kingstown ...	30.39	48	NH	4	o	30.58	+ .25	42	40	- 5	H	1	o	1	51	41	-	
Holyhead ...	30.35	49	H	5	o	30.55	+ .22	40	44	- 1	NH	2	o	2	50	44	0.03	
Liverpool (Bidston) ...	30.31	46	H	6	o	30.54	+ .20	40	43	- 2	NH	2	o	1	48	43	0.03	
Valencia ...	30.52	48	NH	2	o	30.59	+ .21	44	43	- 6	SE	3	o	3	53	37	-	
Roche's Point ...	30.50	49	NH	3	o	30.61	+ .21	37	36	- 11	N	2	o	3	53	35	-	
Pembroke ...	30.41	50	NH	2	o	30.58	+ .18	43	42	- 5	Z	o	o	1	50	42	0.01	
Portishead ...	30.36	48	NH	6	o	30.54	+ .15	41	40	- 5	H	3	o	2	49	39	-	
Scilly ...																		
Plymouth ...	30.44	48	Z	o	off	30.59	+ .11	38	38	- 7	NH	1	o	*	50	39	-	
Hurst Castle ...	30.36	49	H	3	o	30.54	+ .09	39	38	- 5	NH	2	o	2	50	38	-	
Dover ...	30.36	45	H	3	o	30.48	+ .07	41	40	- 6	NH	3	o	1	49	40	0.03	
London ...	30.35	48	H	3	o	30.50	+ .10	41	39	- 4	N	2	o	*	48	40	-	
Oxford ...	*	*	*	*	*	30.04	+ .13	38	37	- 2	NH	1	o	*	47	37	-	
Cambridge ...	30.31	45	SH	1	o	30.49	+ .10	37	36	- 7	NH	1	o	*	47	36	-	
Yarmouth ...	30.27	43	H	2	o	30.47	+ .07	40	40	- 4	NH	2	o	3	45	40	0.01	
The Helder ...	*	*	*	*	*	30.26	- .06	46	44	+ 2	NH	3	o	*	*	*	0.08	
Cape Gris Nez ...	30.36	46	NH	5	o	30.45	+ .08	43	43	- 5	N	5	o	4	48	43	0.04	
Jersey ...	30.51	49	NH	3	o	30.59	+ .08	46	45	- 2	N	2	o	1	50	45	0.07	
Brest ...	?	50	?	2	m	30.60	+ .04	45	43	- 3	N	1	o	3	50	43	0.04	
L'Orient ...	30.56	46	NH	3	o	?	?	45	45	- 1	?	2	o	2	50	43	-	
Rocheport ...	30.50	50	N	1	o	30.57	+ .02	46	?	- 2	NH	2	o	3	50	41	-	
Biarritz ...	30.56	54	ENE	1	m	30.56	.00	46	45	+ 5	SSE	1	o	3	?	37	0.08	
Corunna ...	*	*	*	*	*										*	*	*	
Brussels ...	*	*	*	*	*	30.35	- .04	44	*	+ 3	H	4	o	*	*	*	0.05	
Charleville ...	*	*	*	*	*	30.28	+ .02	45	*	+ 6	NH	4	o	*	*	*	*	
Paris ...	30.43	45	NH	2	o	30.46	+ .03	46	42	o	NH	3	o	*	*	*	0.04	
Lyons ...	*	*	*	*	*	30.35	- .03	45	*	- 1	S	2	o	*	*	*	*	
Toulon ...	30.18	50	Z	o	o	30.17	+ .11	43	39	- 2	Z	o	o	3	52	43	-	

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

	Bar.	Dry.	Wet.	Wind.	Wes.	Sea.		Bar.	Dry.	Wet.	Wind.	Wes.	Sea.		
Skudesnaes ...	30.03	38	35	SSE	8	o	6	Valencia	30.45	32	30	NH	3	0m	4
Thurso	29.88	47	46	SE	2	o	2	Scilly							
Scarborough ...	30.18	46	44	NSE	2	o	2	London	30.38	47	45	N	2	o	*
Greencastle ...	30.18	50	47	N	3	o	*	Rocheport ...	30.51	50	46	NH	3	o	3
Holyhead	30.30	48	47	NSE	3	m	3								

The mercury is falling slightly over Great Britain but is rising in Ireland. The changes are slight, and the wind has veered to N.H. at Valencia.

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.

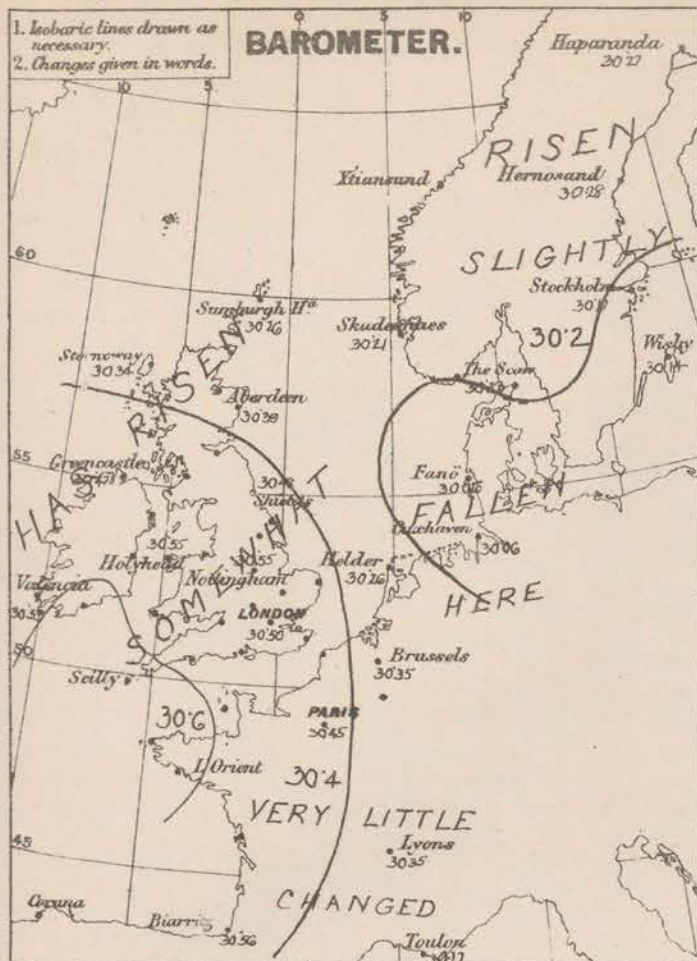
† The evening observations are taken at 6 p.m. in our Islands, at 8 p.m. (Christiania time) in Sweden, Norway, and Denmark, and at 7 p.m. (Paris time) in France.

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 18TH DEC^R 1877.

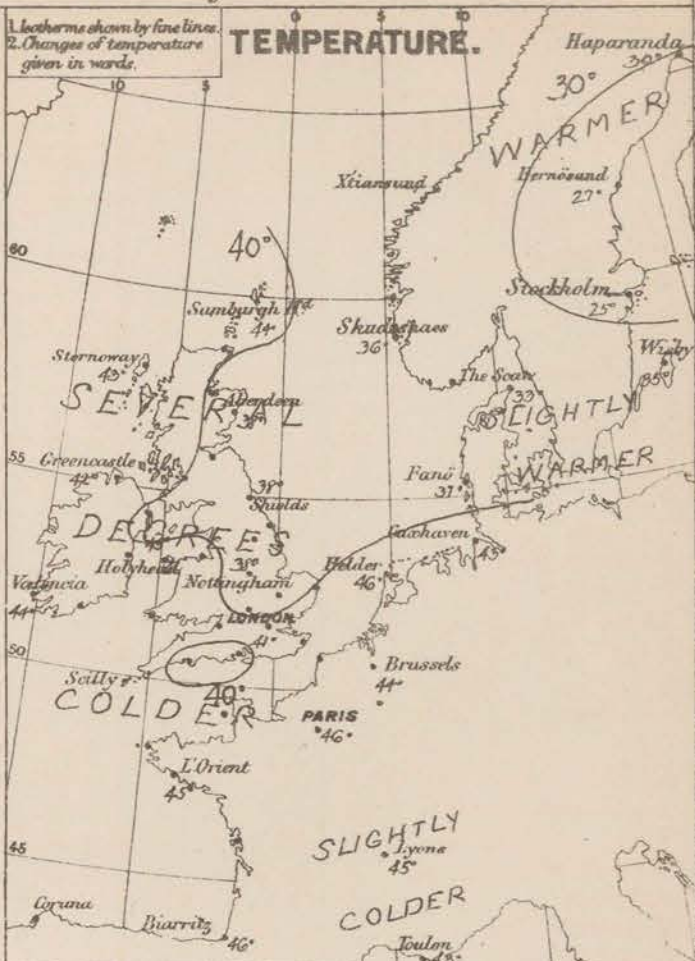
1. Isobaric lines drawn as necessary.
2. Changes given in words.

BAROMETER.



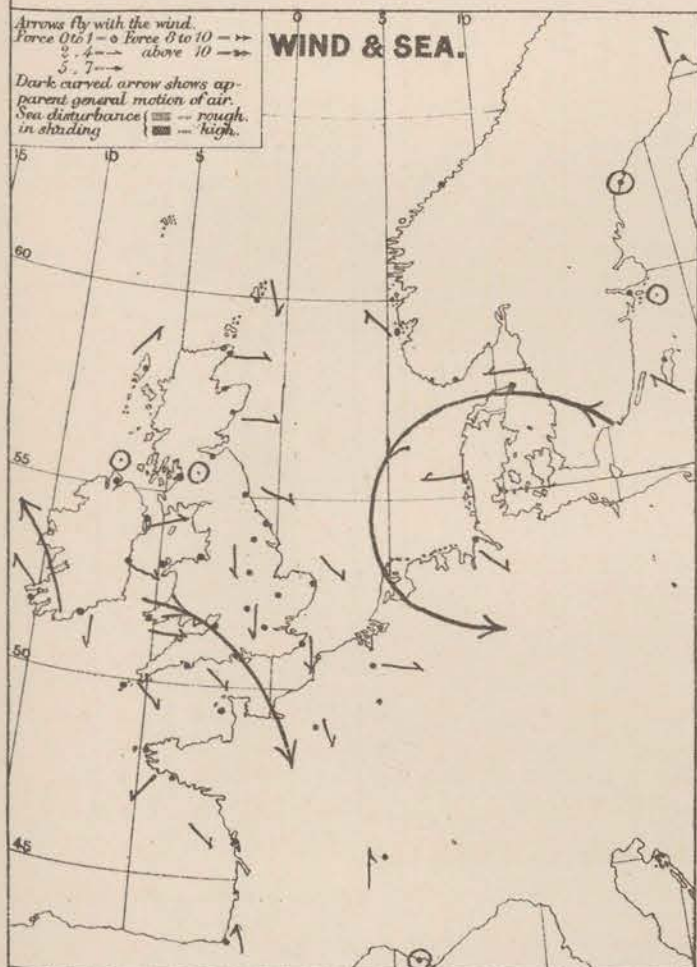
1. Isotherms shown by fine lines.
2. Changes of temperature given in words.

TEMPERATURE.



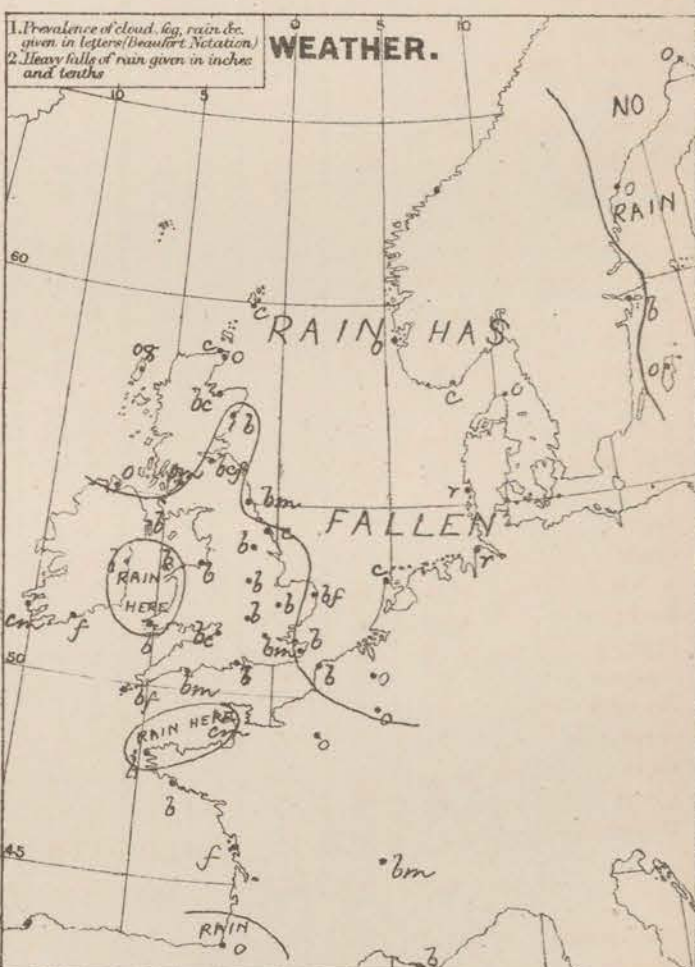
1. Arrows fly with the wind. Force 0 to 1 - a Force 2 to 10 - 2, 4, 6, 8, 10 - above 10 - 12, 14, 16, 18, 20, 22, 24, 26, 28, 30, 32, 34, 36, 38, 40, 42, 44, 46, 48, 50, 52, 54, 56, 58, 60, 62, 64, 66, 68, 70, 72, 74, 76, 78, 80, 82, 84, 86, 88, 90, 92, 94, 96, 98, 100.
2. Dark curved arrow shows apparent general motion of air. Sea disturbance in shading: rough in shading, high in shading.

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 very fine over the greater part of these Islands and France, but in the extreme west and north of the British Isles, as well as on the eastern shores of the North Sea the sky is overcast; over North Germany rain is falling, while on our coasts a good deal of mist or fog prevails. Slight rain fell yesterday. Temperature has fallen generally; it now varies from 38° to 43° over Scotland, from 36° to 44° over Ireland, and from 36° to 45° over England, while in France it is very uniform at about 65°; in London the thermometers in the shade fell to 40° last night, and that on the grass to 29°. Wind is light on all coasts, from SE at Valence, from W to NW at our other stations, and from N over France, while in Denmark the wind is E. Sea is slight or smooth.

Barometrical Indications. Pressure has risen very briskly over North Germany, but has increased in all parts of Western Europe. It now exceeds 30 inches in all parts whence our reports are derived, varying from 30.06 in. at Cuxhaven to 30.63 in. at Falmouth.

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

R. H. SCOTT.
Secretary

DAILY WEATHER REPORT

DEC 19th

1877.

STATIONS.	† YESTERDAY EVENING.						8 A.M. TO DAY.										PAST 24 HOURS.		
	Barometer at 32° F. and Sea Level.	Temp. in shade.	WIND.		Weather.		BAROMETER.		SHADE TEMP.			WIND.		Weather.	Sea. (0 to 9.)		SHADE TEMP.		Amount of Rainfall.
			Dir.	Force (0 to 12).			Reading at 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 ...	30.29	31	S	4	0		30.32	+ .05	32	31	+ 2	S	4	0	*		32	28	-
Hernösand ...	30.40	26	Z	0	C		30.48	+ .20	18	17	- 9	SW	1	6	*		*	*	-
Stockholm ...	30.63	25	NN	2	0		30.47	+ .30	27	27	+ 2	SW	4	0	*		*	*	-
Wisby ...	30.31	34	SE	4	0		30.57	+ .37	30	29	- 5	S	4	0	*		*	*	-
Christiansund ...	30.23	41	SW	3	bc		30.12		40	36		SE	4	bc	5	41	36	-	
Skudesnaes ...	30.41	36	ESE	4	0		30.39	+ .18	40	39	+ 4	SSE	?	0	5	?	36	-	
Oxö (Xiansand) ...	30.44	25	N	4	bc		30.49	+ .29	27	27	- 4	NN	4	0	2	?	21	-	
Skagen (The Seaw) ...	30.46	33	Z	0	0		30.52	+ .29	34	32	+ 1	SW	3	0	2	34	28	-	
Fanö ...	30.46	31	N	1	C		30.55	+ .49	29	29	- 8	N	1	bc	*	?	28	-	
Cuxhaven ...	30.34	32	ENE	2	0		30.56	+ .50	35	34	- 8	E	1	C	*	?	34	-	
Sumburgh Head ...	30.27	44	N	5	C		30.19	- .07	44	43	0	N	5	C	5	47	41	0.07	
Stornoway ...	30.25	44	SW	2	C		30.35	+ .01	41	39	- 2	SW	2	bc	4	47	39	0.05	
Thurso ...	30.30	39	Z	0	0		30.30	- .03	43	42	+ 3	Z	0	bc	2	45	37	0.03	
Wick ...	30.32	42	NN	2	bc		30.33	- .03	40	39	0	SW	2	bc	0	45	38	-	
Nairn ...	30.33	44	SW	1	bc		30.35	- .03	46	44	+ 6	Z	0	bc	1	46	40	-	
Aberdeen ...	30.38	35	Z	0	bc		30.35	- .04	43	42	+ 5	SW	1	0	0	44	32	-	
Leith ...	30.46	44	N	3	bc		30.42	- .08	47	46	+ 8	N	3	0	*	48	38	-	
Shields ...	30.50	40	NN	2	bc		30.48	0.00	42	41	+ 4	Z	0	bc	2	46	36	-	
Scarborough ...	30.51	40	SW	1	bc		30.50	+ .03	40	38	0	SW	1	bc	2	45	37	-	
York ...	30.54	37	NN	1	bc		30.54	+ .03	37	36	+ 1	S	1	0	*	44	33	0.01	
Nottingham ...	30.47	37	Z	0	bc		30.58	+ .03	31	31	- 7	Z	0	bc	*	46	30	-	
Ardrossan ...	30.45	47	SW	2	0		30.45	- .03	49	46	+ 7	NN	2	C	1	50	42	-	
Greencastle ...	30.42	44	SW	2	0		30.49	+ .02	44	42	+ 2	NN	1	0	*	48	40	0.04	
Donaghadee ...	30.49	42	SW	2	bc		30.49	- .04	44	44	+ 8	N	3	C	2	44	35	-	
Kingstown ...	30.54	44	S	2	C		30.56	- .02	47	45	+ 5	NN	4	C	3	48	41	0.09	
Holyhead ...	30.54	43	SW	2	bc		30.53	- .02	48	47	+ 3	NN	2	m	1	49	42	0.12	
Liverpool (Bidston) ...	30.55	42	SW	2	C		30.53	- .01	40	40	- 3	SSE	1	m	1	47	38	-	
Valencia ...	30.49	49	SE	4	bc		30.64	+ .05	47	46	+ 3	NN	1	cm	2	53	43	0.29	
Roche's Point ...	30.53	46	SW	3	bc		30.60	- .01	48	46	+ 11	NN	3	bc	3	48	37	0.09	
Pembroke ...	30.58	49	SE	1	C		30.55	- .03	49	49	+ 6	SW	1	bc	2	50	43	0.10	
Portishead ...	30.58	43	N	2	bc		30.56	+ .02	38	37	- 3	Z	0	C	1	47	31	-	
Scilly ...																			
Plymouth ...	30.60	40	NNE	1	bc		30.58	- .01	40	40	+ 2	Z	0	0	*	48	35	0.13	
Hurst Castle ...	?	45	N	2	bc		30.57	+ .03	32	32	- 7	N	1	bc	1	46	35	0.01	
Dover ...	30.55	42	NN	4	bc		30.58	+ .10	37	36	- 4	NN	3	bc	1	45	35	-	
London ...	30.58	43	NN	2	bc		30.60	+ .10	30	30	- 11	SW	1	bc	*	45	30	-	
Oxford ...							30.59	+ .05	30	30	- 8	Z	0	bc	*	46	29	-	
Cambridge ...	30.56	35	N	1	bc		30.59	+ .10	30	30	- 7	SW	1	bc	*	48	30	-	
Yarmouth ...	30.52	40	NN	2	bc		30.56	+ .14	31	31	- 9	NN	2	bc	2	45	30	-	
The Helder ...							30.54	+ .28	38	37	- 8	NN	1	C	*	*	*	-	
Cape Gris Nez ...	30.52	43	N	4	bc		30.59	+ .14	39	39	- 4	NE	1	bc	0	46	39	-	
Jersey ...	30.63	44	NNE	2	bc		30.63	+ .04	44	42	- 2	N	1	bc	1	49	42	-	
Brest ...	30.64	?	N	2	bc		30.63	+ .03	45	43	0	S	1	bc	2	50	41	0.04	
L'Orient ...	30.61	46	NNE	3	bc		30.64	?	43	41	- 2	NNE	3	0	2	52	37	-	
Rochefort ...	30.54	50	N	3	0		30.57	+ .06	48	?	+ 2	N	3	0	3	52	41	-	
Biarritz ...	30.54	50	SW	1	bc		30.58	+ .02	45	41	- 1	ENE	1	0	3	52	41	0.08	
Corunna ...																			
Brussels ...							30.56	+ .21	39		- 5	N	2	0	*	*	*	-	
Charleville ...							30.47	+ .19	38		- 7	N	3	0	*	*	*	-	
Paris ...	30.50	40	NN	3	bc		30.57	+ .12	39	38	- 7	NN	2	0	*	*	*	-	
Lyons ...							30.43	+ .08	45		0	N	4	0	*	*	*	-	
Toulon ...	30.06	46	NN	6	bc		30.12	- .05	48	37	+ 5	NN	1	bc	5	52	43	-	

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

	Bar.	Dry.	Wet.	Wind.	Wes.	Sea.		Bar.	Dry.	Wet.	Wind.	Wes.	Sea.		
Skudesnaes ...	30.28	38	38	ESE	2	0	4	Valencia	30.54	49	48	SSE	3	rym	4
Thurso	30.32	43	42	SSW	1	C	2	Scilly							
Scarborough ...	30.57	44	41	NN	1	bc	2	London	30.55	45	43	NN	2	bm	*
Greencastle ...	30.46	44	42	SW	1	0	*	Rochefort ...	30.54	46	46	NN	3	0	3
Holyhead	30.57	46	45	NNN	2	bc	2								

The mercury is falling at all the more western stations, but still rises elsewhere. At Valencia the wind remains SE, but the weather has become rainy and gloomy.

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 received.

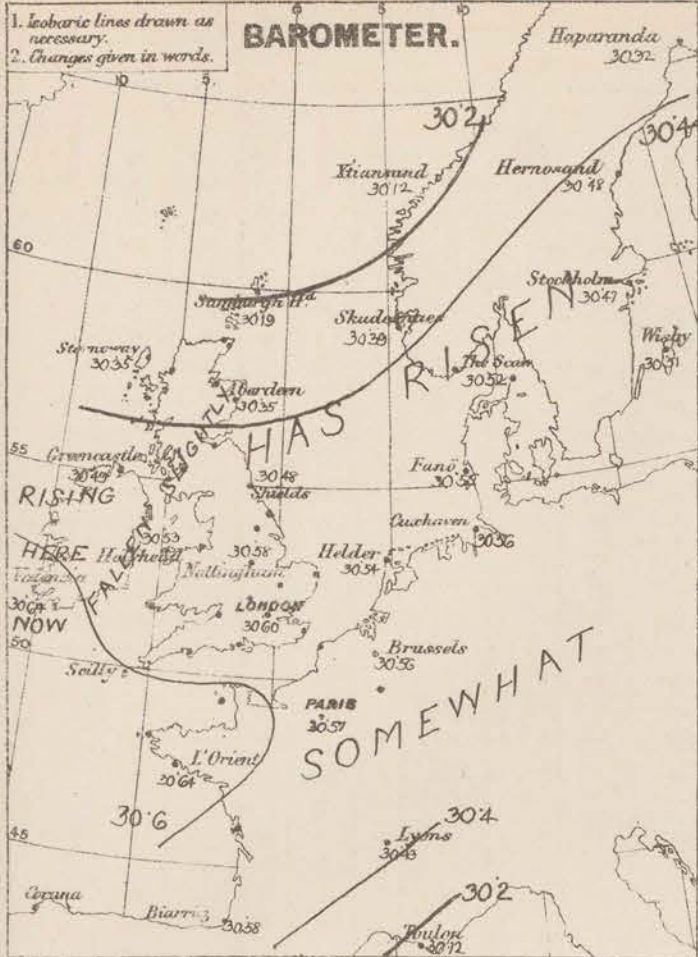
† The evening observations are taken at 8 p.m. in our Islands, at 8 p.m. (Christiania time) in Sweden, Norway, and Denmark, and at 7 p.m. (Paris time) in France.

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

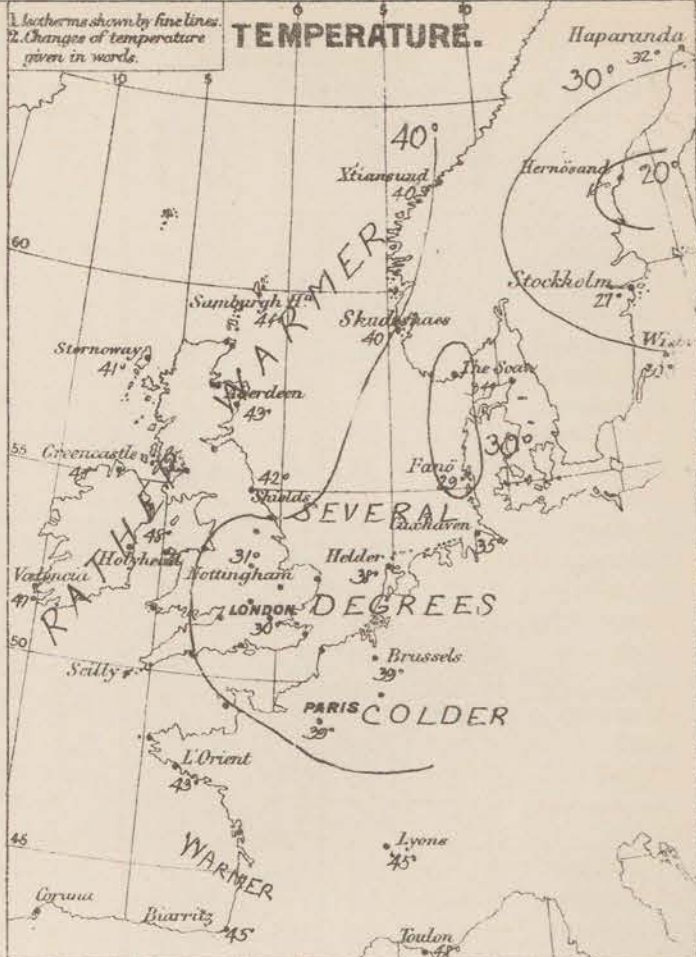
WEATHER CHARTS

for 8 a.m. on Wednesday 19th Dec^r 1877.

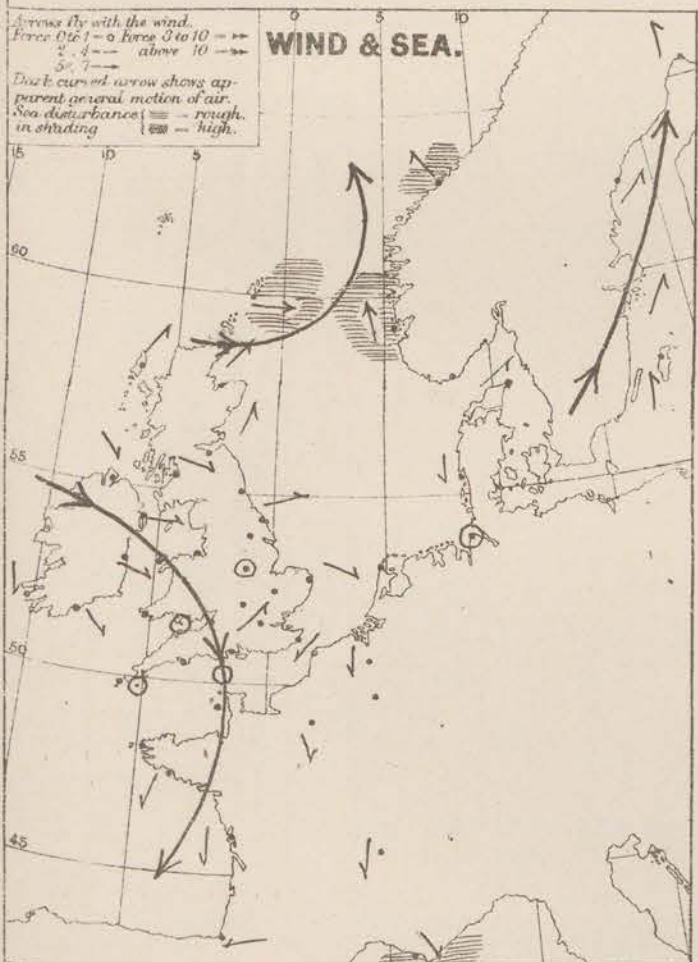
BAROMETER.



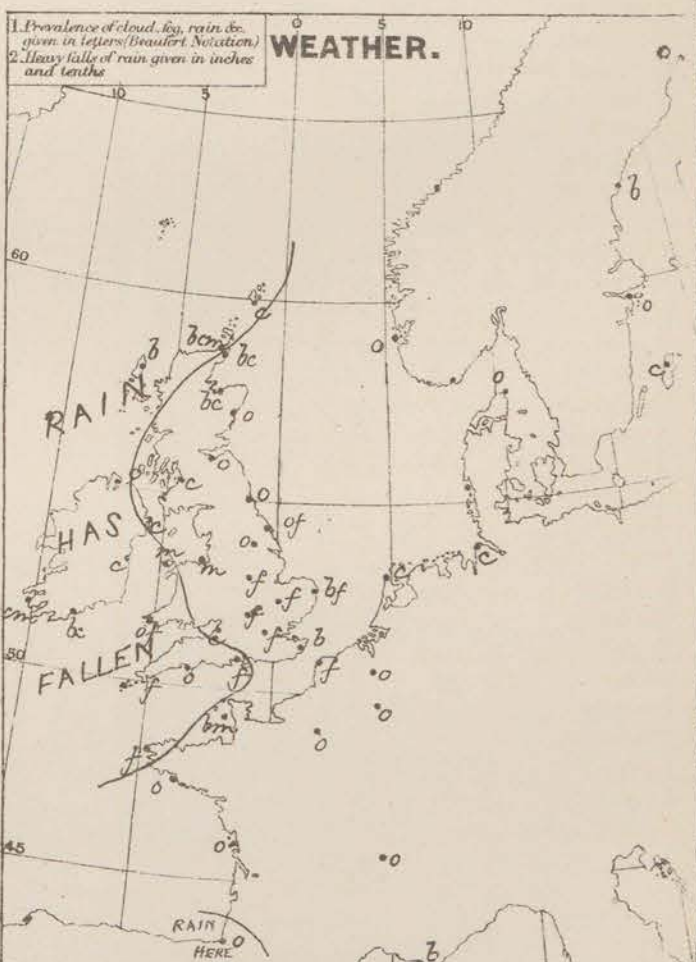
TEMPERATURE.



WIND & SEA.



WEATHER.



REMARKS. Weather is cloudy or dull in nearly all places, and over the greater part of England a great deal of fog and mist is reported. Slight rain fell in the west yesterday, but elsewhere the weather has been dry. Temperature has risen at most of the western and northern stations, but has fallen several degrees in the south east and over the Netherlands; it now varies from 40° to 49° over Scotland, from 44° to 48° over Ireland, and from 30° to 49° over England. In London the thermometer on the grass fell to 23° last evening, but it has since risen and is now 1° higher than the shade temperature. Wind is fresh from W. in the Netherlands, and strong from SE at Shetland, but on all other coasts it is light in force, from W. to NW on our coasts and from N over France. Sea is slight or smooth.

Barometrical Indications. A slight fall of the mercury is reported from the Shetlands, our north east coasts and the west of Norway but in all other places it is rising. Pressure is very high over the whole of Western Europe, varying from 30.64 in. in the south west to 30.19 in. at Lumborough H. and 30.12 in. at Toulon.

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

R. H. SCOTT.
Secretary.

DAILY WEATHER REPORT

DEC. 20TH

1877.

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 9).	SHADE TEMP.		Amount of Rainfall.
			Dirco.	Force. (0 to 12).		Reading at 32° F. and Sea Level.	Difference from 8 a.m. yesterday.	Dry.	Wet.	Difference from 8 a.m. yesterday.	Dirco.	Force. (0 to 12).			Max.	Min.	
Haparanda ...	30.33	33	S	6	o	30.29	- .03	33	33	+ 1	S	4	o	*	34	30	-
Hernösand ...	30.30	28	SSW	4	e	30.46	- .02	21	21	+ 3	N	2	bc	*	*	*	-
Stockholm ...	30.55	28	SW	4	o	30.56	+ .09	32	31	+ 5	SSW	2	o	*	*	*	0.04
Wisby ...	30.58	30	S	4	o	30.55	+ .07	33	32	+ 3	SSW	6	o	*	*	*	-
Christiansund ...	30.23	41	SW	4	bc	30.16	+ .04	45	41	+ 5	SW	6	o	6	?	39	0.16
Skudesnaes ...	30.45	40	NNW	1	g	30.52	+ .13	42	42	+ 2	SSE	7	o	5	45	39	-
Oxö (Klansand) ...	30.49	40	SW	6	r	30.56	+ .07	32	32	+ 5	NW	2	c	2	41	32	-
Skagen (The Seaw) ...	30.58	32	WSW	3	o	30.58	+ .06	36	36	+ 2	SW	3	g	1	36	28	-
Fanö ...	30.64	34	S	4	c	30.67	+ .12	37	37	+ 8	S	2	c	*	?	30	-
Cuxhaven ...	30.68	*	E	1	bc	30.76	+ .20	33	33	- 2	SW	1	c	*	?	28	-
Sumburgh Head ...	30.34	46	SW	5	c	30.22	+ .03	46	44	+ 2	SW	5	o	4	47	39	0.01
Stornoway ...	30.43	44	WSW	2	o	30.19	- .16	47	46	+ 6	SSW	8	r	6	47	39	0.01
Thurso ...	30.42	42	SW	2	bc	30.24	- .06	41	40	- 2	S	1	bc	3	45	35	-
Wick ...	30.47	42	N	3	o	30.28	- .05	43	41	+ 3	SSW	2	c	1	44	38	-
Nairn ...	30.49	42	Z	0	bc	30.35	.00	45	43	- 1	SW	3	c	1	46	39	-
Aberdeen ...	30.53	40	SW	1	bc	30.37	+ .02	38	36	- 5	SSW	1	bc	0	46	35	-
Leith ...	30.57	43	WSW	2	bc	30.52	+ .10	41	40	- 6	WSW	3	bc	*	48	40	-
Shields ...	30.63	46	N	3	cf	30.59	+ .11	36	34	- 6	WSW	1	g	1	47	34	-
Scarborough ...	30.57	44	WSW	1	g	30.63	+ .13	37	36	- 3	WSW	1	bc	2	45	36	-
York ...	30.60	40	WSW	1	o	30.70	+ .16	28	28	- 9	N	1	g	*	42	27	0.01
Nottingham ...	30.61	40	Z	0	c	30.68	+ .10	33	33	+ 2	Z	0	cf	*	? 42	? 31	0.01
Ardrossan ...	30.59	46	WSW	1	bc	30.54	+ .09	45	44	- 4	SSE	2	bc	2	49	40	-
Greencastle ...	30.56	45	SW	1	o	30.46	- .03	41	40	- 3	SW	1	o	*	47	38	-
Donaghadee ...	30.63	42	WSW	2	bc	30.58	+ .09	37	37	- 7	SW	2	bc	1	46	36	-
Kingstown ...	30.66	45	NNW	1	bc	30.63	+ .07	39	38	- 8	S	1	cf	1	48	38	-
Holyhead ...	30.63	45	NNW	1	bc	30.63	+ .10	40	40	- 8	WSW	1	g	1	50	39	0.01
Liverpool (Bidston) ...	30.64	45	NNW	1	o	30.65	+ .12	36	36	- 4	SSE	2	m	0	46	36	0.02
Valencia ...	30.68	43	Z	0	bc	30.59	- .05	49	48	+ 2	S	4	odg	4	51	42	-
Roche's Point... ..	30.67	46	N	2	bc	30.64	+ .04	43	42	- 5	NNE	1	om	2	30	38	-
Pembroke ...	30.64	48	NNE	1	om	30.64	+ .09	47	46	- 2	SE	1	om	1	51	47	0.01
Portishead ...	30.63	43	Z	0	o	30.65	+ .09	41	41	+ 3	WSW	2	cf	2	45	34	-
Scilly ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Plymouth ...	30.63	46	Z	0	o	30.66	+ .08	44	44	+ 4	Z	0	om	*	48	40	0.01
Hurst Castle ...	30.60	42	N	1	om	30.60	+ .03	43	42	+ 11	ENE	3	om	3	?	29	-
Dover ...	30.66	39	NW	1	o	30.68	+ .10	41	40	+ 4	NE	1	cf	0	?	35	-
London ...	30.65	39	Z	0	g	30.67	+ .07	40	40	+ 10	Z	0	g	*	40	30	0.04
Oxford ...	*	*	*	*	*	30.67	+ .09	40	40	+ 10	Z	0	g	*	40	30	0.02
Cambridge ...	30.61	38	S	1	g	30.68	+ .09	39	39	+ 9	SW	1	g	*	40	28	0.01
Yarmouth ...	30.61	34	Z	0	g	30.68	+ .12	33	33	+ 2	Z	0	g	2	34	28	-
The Helder ...	*	*	*	*	*	30.63	+ .09	32	31	- 6	SSE	1	bc	*	*	*	-
Cape Gris Nez ...	30.65	37	E	1	m	30.68	+ .09	39	39	0	E	1	g	0	43	37	-
Jersey ...	30.67	45	NE	1	o	30.69	+ .06	45	45	+ 1	NE	1	cf	0	50	43	0.02
Brest ...	30.66	?	S	2	m	30.67	+ .04	46	45	+ 1	E	2	o	3	48	43	-
L'Orient ...	30.65	43	S	1	bc	30.66	+ .02	45	41	+ 2	NE	2	o	2	48	41	-
Rocheport ...	30.58	50	NE	1	m	30.60	+ .03	37	36	- 11	NE	3	bc	3	?	34	-
Biarritz ...	30.58	?	NE	2	c	30.58	.00	37	36	- 8	ENE	3	o	3	48	34	-
Corunna ...	*	*	*	*	*	...	...	...	...	...	...	...	...	...	*	*	*
Brussels ...	*	*	*	*	*	30.63	+ .07	31	*	- 8	E	3	o	*	*	*	-
Charleville ...	*	*	*	*	*	30.62	+ .15	31	*	- 7	NNW	3	c	*	*	*	-
Paris ...	30.60	41	NE	3	o	30.65	+ .08	34	32	- 5	NNE	3	bc	*	*	*	-
Lyons ...	*	*	*	*	*	30.48	+ .05	37	*	- 8	N	7	?	*	*	*	-
Toulon ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...

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

	Bar.	Dry.	Wet.	Wind.	Wca.	Sea.		Bar.	Dry.	Wet.	Wind.	Wca.	Sea.
Skudesnaes ...	30.40	44	44	SW	2	o	Valencia ...	30.46	31	47	Z	0	cm
Thurso ...	30.40	43	41	SW	1	bc	Scilly ...	...	...	...	...	...	...
Scarborough ...	30.53	42	41	WSW	1	cf	London ...	30.62	36	36	SW	1	bc
Greencastle ...	30.57	47	45	N	1	o	Rocheport ...	30.59	45	43	E	2	m
Holyhead ...	30.60	49	47	NNW	3	om							

No important change. —

EXPLANATION OF COLUMNS

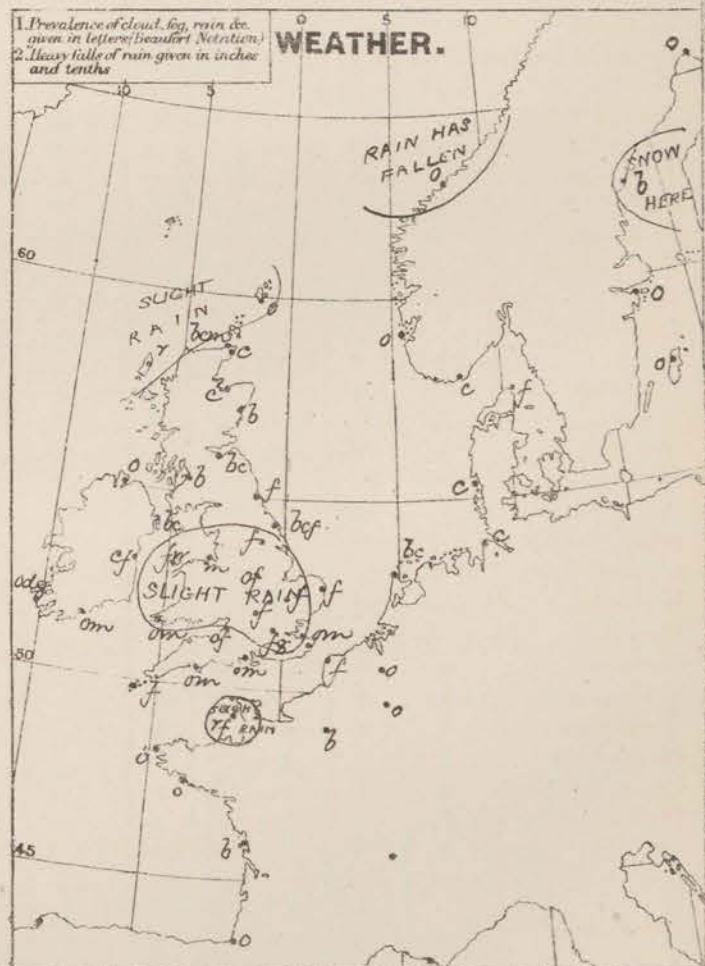
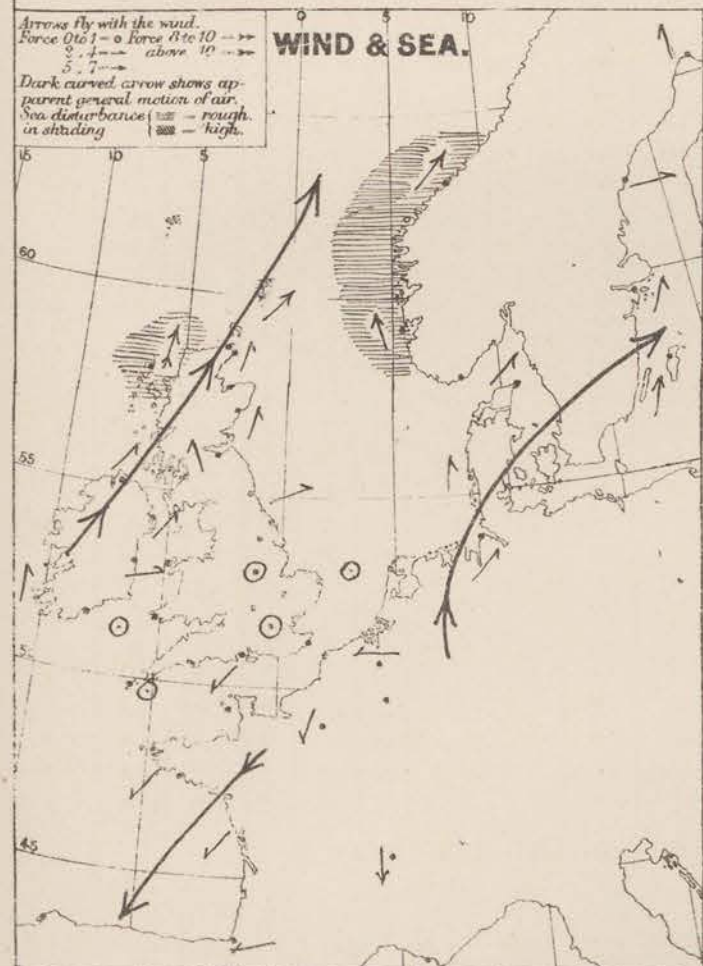
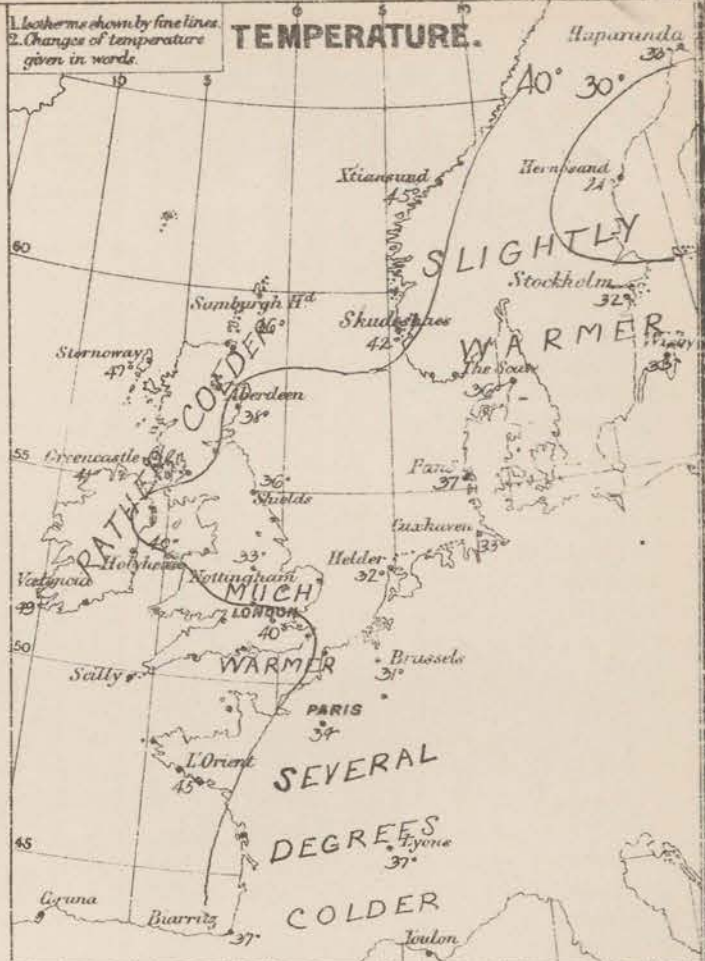
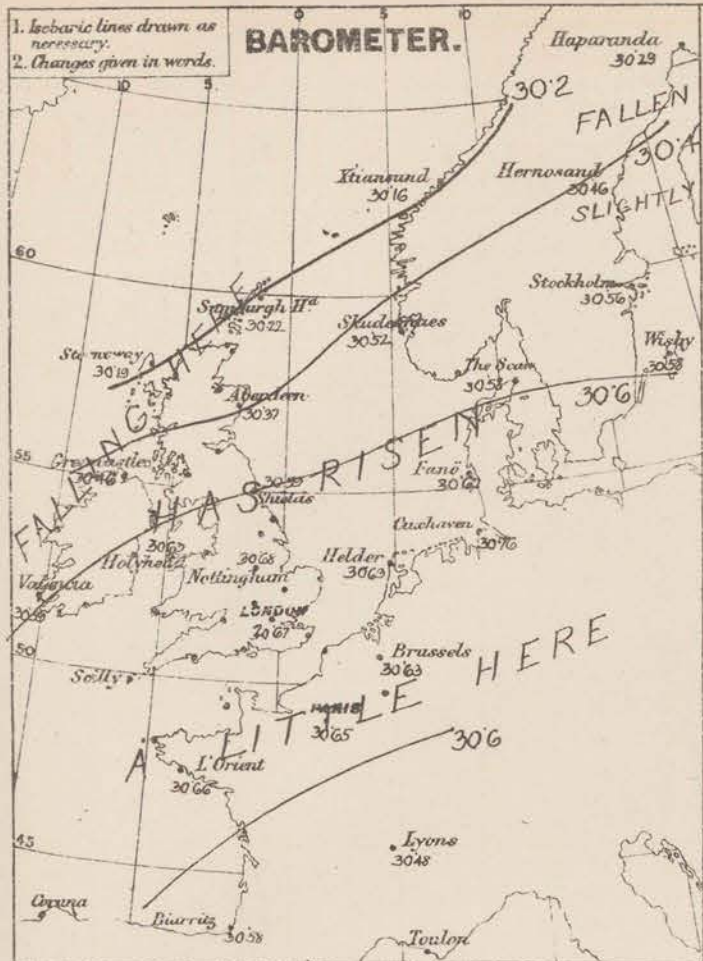
WEATHER—Beaufort scale is, b. blue sky; c. detached clouds; d. drizzling; m. misty (hazy); o. overcast; p. passing showers; q. squally; r. rain; s. snow; t. thunder; u. ugly, threatening; v. visibility; unusual transparency; w. dew.

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

† The evening observations are taken at 6 p.m. in our Islands, at 5 p.m. (Christian 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 20TH DEC^R 1877.*



REMARKS. Weather is moderately fine at some of the Scotch stations, but is dull or very cloudy elsewhere, with thick fog or mist in the south, drizzle at Valentia, and rain at Stornoway and Jersey. Slight rain fell yesterday at a few places, and a little snow at Stockholm. Temperature has risen fast in the south east of England but has fallen several degrees over France, and to a less extent at most of our western and northern stations; in the south east the maximum temperature for the past 24 hours is the reading this morning. The thermometer runs from 38° to 47° over Scotland, from 37° to 49° over Ireland, and from 28° (at York) to 48° over England. Wind is E^{ly} to NE^{ly} over France and the Channel, and S^{ly} to SW^{ly} on our western and northern coasts; it is light in force generally, but bears a fresh gale from SW in the Hebrides. Sea is rough in the Irish, moderate off the west of Ireland and slight or smooth on our other coasts.

Barometrical Indications. Pressure still increases over France, North Germany and our southern and south eastern counties, but is decreasing elsewhere.—tridly in the north west. The highest readings are reported from the mouth of the Elbe, the lowest from the north west of Scotland, but the barometer is everywhere much above 30 inches.

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^r 21st 1877.

STATIONS.	↑ YESTERDAY EVENING.					8 A.M. TO DAY.										PAST 24 HOURS.		
	Barometer at 32° F. and Sea Level.	Temp. in shade.	WIND.		Weather.	BAROMETER.		SHADE TEMP.			WIND.		Weather.	Sec. (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 ...	30.16	35	S	6	r	29.92	- 37	35	34	+ 2	S	8	o	*	36	32	0.24	
Hernösand ...	30.30	30	SSW	4	o	30.10	- 36	36	35	+ 15	SW	2	o	*	*	*	-	
Stockholm ...	30.49	34	S	2	o	30.31	- 25	36	35	+ 4	SSW	6	o	*	*	*	-	
Wisby ...	30.55	34	SW	6	c	30.48	- 10	36	34	+ 3	SW	6	o	*	*	*	-	
Christiansund ...	30.24	30	SW	3	o	30.09	- 07	41	40	- 4	SW	5	8	6	30	37	0.08	
Skudesnaes ...	30.30	46	SSE	7	o	30.24	- 28	45	44	+ 3	WSW	1	f	5	?	43	0.25	
Oxö (Klansand) ...	30.45	42	SW	4	o	30.32	- 24	42	42	+ 10	SW	7	r	4	45	39	-	
Skagen (The Bazar) ...	30.50	38	WSW	4	o	30.44	- 14	36	35	0	?	7	o	6	41	34	-	
Fanö ...	30.61	40	WSW	4	c	30.54	- 13	33	32	- 4	S	4	c	*	41	32	-	
Cuxhaven ...	30.77	*	SSW	2	c	30.63	- 13	30	29	- 3	S	2	o	*	?	27	-	
Sumburgh Head ...	29.94	47	SW	6	r	30.16	- 06	44	41	- 2	W	3	o	4	49	41	0.05	
Stornoway ...	30.06	49	W	4	o	30.22	+ 03	43	41	- 4	WSW	3	o	4	49	39	0.26	
Thurso ...	30.04	47	SSW	3	r	30.21	- 03	40	39	- 1	SSW	2	c	3	50	39	0.03	
Wick ...	30.07	46	W	4	o	30.24	- 04	41	38	- 2	SW	2	o	1	48	37	0.01	
Nairn ...	30.15	48	SW	4	o	30.28	- 07	39	38	- 6	Z	0	c	1	50	38	0.01	
Aberdeen ...	30.22	44	SSW	4	o	30.29	- 08	38	37	0	Z	0	m	1	47	38	-	
Leith ...	30.31	46	W	3	c	30.35	- 17	48	46	+ 7	W	3	o	*	49	36	0.01	
Shields ...	30.46	41	W	3	of	30.41	- 18	47	46	+ 11	WNW	3	of	1	47	34	0.01	
Scarborough ...	30.49	38	SW	1	bc	30.42	- 21	42	41	+ 5	WSW	1	f	2	42	34	-	
York ...	30.53	37	SSW	1	8	30.44	- 26	40	40	+ 12	S	1	o	*	40	27	-	
Nottingham ...	30.59	37	Z	0	o	30.50	- 18	42	42	+ 9	Z	0	f	*	42	33	0.07	
Ardrossan ...	30.35	47	SSW	5	r	30.36	- 18	48	47	+ 3	SSW	2	o	2	50	45	0.16	
Greencastle ...	30.51	47	W	3	r	30.34	- 12	47	47	+ 6	S	1	of	*	48	40	0.11	
Donaghadee ...	30.45	44	WSW	2	o	30.41	- 17	47	47	+ 10	W	2	o	1	48	36	0.09	
Kingstown ...	30.50	49	SW	3	o	30.46	- 17	48	47	+ 9	SE	1	e	1	49	38	0.03	
Holyhead ...	30.52	46	SW	4	c	30.47	- 16	49	48	+ 9	SW	1	m	0	50	39	0.10	
Liverpool (Bidston) ...	30.55	40	S	2	bc	30.47	- 18	46	46	+ 10	WSW	2	o	1	46	34	0.02	
Valencia ...	30.54	49	WSW	3	o	30.51	- 08	51	50	+ 2	SW	3	dm	4	51	48	0.10	
Roche's Point ...	30.54	48	SW	3	r	30.57	- 13	49	48	+ 6	W	2	o	2	50	43	0.06	
Pembroke ...	30.57	49	WSW	1	o	30.50	- 14	49	49	+ 2	WNW	1	om	3	50	47	0.01	
Portishead ...	30.60	43	WSW	1	o	30.56	- 15	45	45	+ 4	WSW	3	o	3	47	39	-	
Scilly ...																		
Plymouth ...	30.62	46	Z	0	o	30.55	- 11	44	44	0	Z	0	f	*	50	43	0.06	
Hurst Castle ...	?	45	E	2	f	?	?	45	44	+ 2	Z	0	m	0	48	41	-	
Dover ...	30.66	38	ENE	2	8	30.56	+ 12	41	40	0	WSW	2	c	1	44	33	-	
London ...	30.64	44	S	1	o	30.53	- 14	41	40	+ 1	WSW	1	o	*	45	40	-	
Oxford ...	*	*	*	*	*	30.52	- 15	43	42	+ 3	Z	0	of	*	43	39	-	
Cambridge ...	30.65	?	SSE	1	f	30.50	- 18	40	40	+ 1	SSW	1	r	*	44	38	0.05	
Yarmouth ...	30.62	38	SSW	2	bc	30.50	- 18	38	37	+ 5	SW	1	bc	2	39	32	0.02	
The Helder ...	*	*	*	*	*	30.54	- 09	29	28	- 3	SSE	1	bc	*	*	*	-	
Cape Gris Nez ...	30.65	30	E	1	8	30.56	- 12	34	32	- 5	S	1	m	0	41	28	-	
Jersey ...	30.66	45	Z	0	o	30.58	- 11	47	46	+ 2	S	1	om	0	47	44	0.05	
Brest ...	30.65	?	WNW	1	o	30.60	- 07	46	46	0	WNW	1	o	3	48	46	-	
L'Orient ...	30.65	45	W	3	o	30.60	- 06	45	43	0	N	2	o	2	45	42	-	
Rocheport ...	30.54	46	NE	5	8	30.55	- 05	32	32	- 5	NE	4	o	3	?	?	-	
Biarritz ...	30.52	32	WNW	4	bc	30.56	- 02	36	34	- 1	ENE	1	o	3	?	32	-	
Corunna ...	*	*	*	*	*										*	*	*	
Brussels ...	*	*	*	*	*	30.63	00	26	*	- 5	Z	0	f	*	*	*	-	
Charleville ...	*	*	*	*	*	?	?	30	*	- 1	WNW	3	o	*	*	*	-	
Paris ...	30.62	33	NE	3	o	30.58	- 07	27	27	- 7	WNW	1	f	*	*	*	-	
Lyons ...	*	*	*	*	*	30.50	+ 02	36	*	- 1	N	7	c	*	*	*	-	
Toulon ...	30.28	39	Z	0	c	30.25		39	34		N	2	8	4	45	39	-	

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

	Bar.	Dry.	Wet.	Wind.	Wes.	Sea.		Bar.	Dry.	Wet.	Wind.	Wes.	Sea.		
Skudesnaes ...	30.38	44	43	SSE	8	o	5	Valencia ...	30.54	51	50	SSW	5	omd	4
Thurso	30.08	46	44	SSW	3	cc	4	Seilly							
Scarborough ...	30.54	36	35	SW	1	o	2	London	30.66	45	44	S	1	cf	*
Greencastle ...	30.36	46	44	S	3	o	*	Rocheport ...	30.54	41	39	NE	4	f	3
Holyhead	30.55	47	45	SW	3	o	2								

Pressure is now decreasing everywhere, briskly in the NW. The wind is S^{ly} in the N. and N. and blows freshly at Valencia.

EXPLANATION OF COLUMNS.

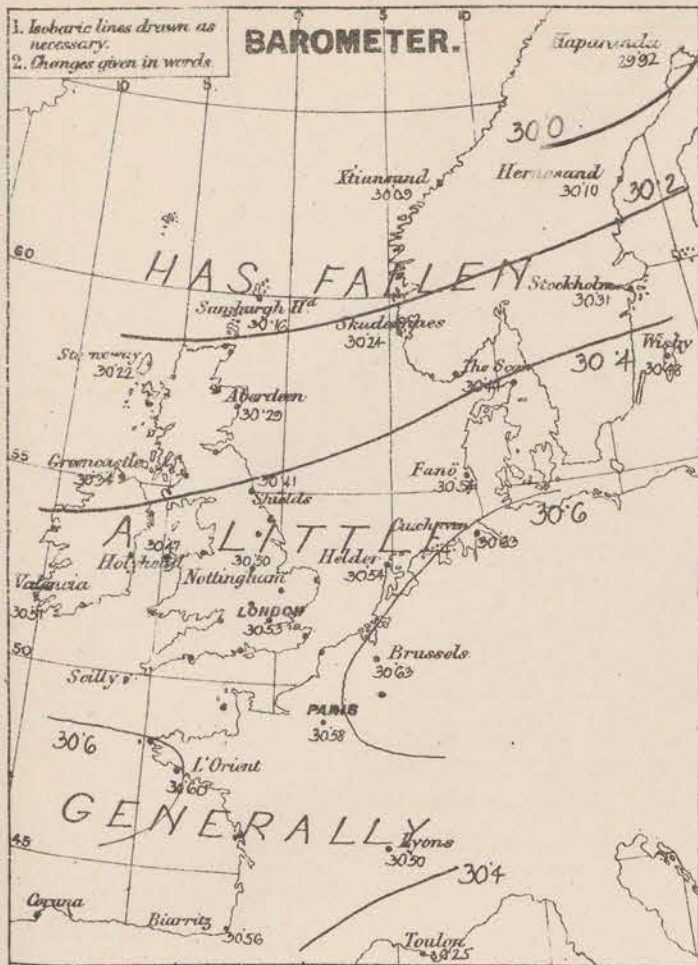
WEATHER.--Beaufort Scale is, b. blue sky; c. detached clouds; d. drizzling rain; f. fog; g. dark, gloomy; h. hail; l. lightning; m. misty (hazy); o. overcast; p. passing showers; q. squally; r. rain; s. snow; t. thunder; u. ugly, threatening; v. visibility, unusual transparency w. dew.

* 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 Friday 21st Dec^r 1877.



DAILY WEATHER REPORT

DEC^R 22ND 1877.

STATIONS.	† YESTERDAY EVENING.						8 A.M. TO DAY.										PAST 24 HOURS.		
	Barometer at 32° F. and Sea Level.	Temp. in shade.	WIND.		Weather.	Reading at 32° F. and Sea Level.	Difference from 8 a.m. yesterday.	SHADE TEMP.			WIND.		Weather.	Sea. (0 to 9.)	SHADE TEMP.		Amount of Rain.		
			Dir.	Force. (0 to 12).				Dry.	Wet.	Difference from 8 a.m. yesterday.	Dir.	Force. (0 to 12).			Max.	Min.			
Haparanda ...	29.98	31	N	4	bc	29.50	- .42	36	35	+	1	SW	6	o	*	36	28	-	
Hernösand ...	30.10	33	S	2	o	29.69	- .41	39	37	+	3	S	6	o	*	*	*	-	
Stockholm ...	30.24	35	SW	6	o	30.08	- .23	31	30	+	5	WSW	6	o	*	*	*	-	
Wisby ...	30.44	34	?	8	o	30.33	- .15	34	32	-	2	WSW	8	o	*	*	*	-	
Christiansund ...	29.70	42	SSW	4	o	29.18	- .91	48	42	+	7	SSW	6	c	5	?	41	-	
Skudesnaes ...	30.14	45	S	6	r	29.72	- .52	46	46	+	1	SSW	8	f	5	?	43	0.20	
Oxö (Klansand) ...	30.27	45	SSW	6	r	29.94	- .38	45	45	+	3	SSW	7	r	5	45	39	0.20	
Skagen (The Seaw) ...	30.35	35	SW	8	o	30.09	- .35	36	35	o	0	SW	7	r	7	39	32	0.08	
Fanö ...	30.47	33	SSW	4	o	?	?	36	36	+	3	SW	6	m	*	36	30	-	
Cuxhaven ...	30.63	*	S	2	o	30.46	- .17	27	25	-	3	SSW	2	o	*	?	?	-	
Sumburgh Head ...	29.93	45	WSW	5	cg	29.38	- .78	47	46	+	3	SW	8	r	7	30	41	0.05	
Stornoway ...	30.02	46	SW	4	o	29.46	- .76	49	48	+	6	SW	8	r	7	49	42	0.16	
Thurso ...	30.02	44	S	1	o	29.47	- .74	50	48	+	10	SSW	4	ow	3	51	36	0.01	
Wick ...	30.02	44	SW	2	o	29.48	- .76	50	46	+	9	WSW	2	c	2	51	38	-	
Nairn ...	30.08	46	N	2	bc	29.56	- .72	50	47	+	11	SW	5	o	3	50	39	-	
Aberdeen ...	30.13	43	S	1	o	29.65	- .64	48	45	+	10	SSW	8	c	2	53	37	-	
Leith ...	30.22	51	N	4	o	29.86	- .49	50	48	+	8	SW	7	o	*	52	47	-	
Shields ...	30.33	49	SW	1	of	30.01	- .40	51	49	+	4	WSW	5	o	2	51	46	-	
Scarborough ...	30.37	45	WSW	2	c	30.07	- .35	47	46	+	5	SW	2	o	2	48	41	-	
York ...	30.40	46	S	1	o	30.14	- .30	46	45	+	6	S	2	o	*	48	38	0.01	
Nottingham ...	30.46	46	S	1	o	30.26	- .24	46	45	+	4	SSW	3	o	*	47	40	-	
Ardrossan ...	30.27	49	SSW	3	o	29.95	- .44	49	48	+	1	SSW	3	r	4	52	47	-	
Greencastle ...	30.27	49	N	2	o	29.91	- .43	49	48	+	2	SSW	3	o	*	50	46	0.02	
Donaghadee ...	30.33	48	SW	3	o	30.08	- .33	47	47	o	0	SW	4	c	2	48	45	0.01	
Kingstown ...	30.41	52	N	3	o	30.17	- .29	50	47	+	2	WSW	4	c	2	53	47	-	
Holyhead ...	30.40	49	SSW	3	m	30.18	- .29	49	49	o	0	SW	5	m	3	51	49	0.02	
Liverpool (Bidston) ...	30.41	47	SSE	1	o	30.19	- .28	50	49	+	4	SW	3	o	1	50	46	-	
Valencia ...	30.48	52	WSW	2	fd	30.26	- .25	50	48	-	1	SW	5	od	5	53	48	0.16	
Roche's Point ...	30.45	50	N	2	f	30.29	- .22	49	48	o	0	WSW	3	a	3	53	47	-	
Pembroke ...	30.46	50	WSW	1	om	30.31	- .19	49	48	o	0	WSW	2	o	3	52	48	0.02	
Portishead ...	30.46	45	SW	1	o	30.33	- .17	46	46	+	1	SSW	4	o	4	48	43	0.01	
Scilly ...																			
Plymouth ...	30.49	48	Z	0	o	30.40	- .15	48	48	+	4	Z	0	m	*	50	44	0.02	
Hurst Castle ...	30.45	48	N	1	m	30.37	?	49	48	+	4	SW	2	o	2	50	40	-	
Dover ...	30.51	42	SW	3	c	30.41	- .15	43	42	+	2	SSW	4	cg	3	44	40	-	
London ...	30.49	46	WSW	1	o	30.36	- .17	44	43	+	3	SW	2	o	*	46	41	0.03	
Oxford ...	*	*	*	*	*	30.33	- .19	45	45	+	2	S	2	o	*	48	42	-	
Cambridge ...	30.40	44	SW	1	r	30.31	- .19	44	44	+	4	SSW	1	o	*	46	40	0.00	
Yarmouth ...	30.46	41	SSW	1	cm	30.30	- .20	43	42	+	5	SW	3	cg	2	43	37	-	
The Helder ...	*	*	*	*	*	30.38	- .16	30	29	+	1	S	2	o	*	*	*	-	
Cape Gris Nez ...	30.54	34	S	1	m	30.43	- .12	34	32	o	0	S	3	m	2	37	32	-	
Jersey ...	30.53	47	Z	0	o	30.47	- .11	46	46	-	1	S	2	o	1	48	45	0.01	
Brest ...	30.51	?	NE	1	m	30.47	- .13	48	46	+	2	S	2	m	3	48	46	0.08	
L'Orient ...	30.53	45	NNW	1	o	30.49	- .11	43	43	-	2	ENE	1	m	2	48	41	0.04	
Rochefort ...	30.52	45	ENE	3	m	30.48	- .07	28	28	-	4	E	3	o	3	46	26	-	
Biarritz ...	30.49	?	WSW	3	c	30.47	- .09	28	27	-	8	ENE	3	m	3	45	27	-	
Corupna ...	*	*	*	*	*											*	*	*	
Brussels ...	*	*	*	*	*	30.48	- .15	27	*	+	1	SW	4	o	*	*	*	-	
Charleville ...	*	*	*	*	*	? 30.48	?	25	*	-	5	NN	3	o	*	*	*	*	
Paris ...	30.54	29	NE	2	f	30.51	- .07	27	26	o	0	SSE	2	o	*	*	*	-	
Lyons ...	*	*	*	*	*	30.51	+	35	*	-	1	NN	2	o	*	*	*	*	
Toulon ...	30.27	43	E	2	c	30.30	+	39	36	o	0	E	1	o	3	46	39	-	
YESTERDAY'S 2 P.M. REPORTS AND REMARKS.																			
	Bar.	Dry.	Wet.	Wind.	Wes.	Sea.					Bar.	Dry.	Wet.	Wind.	Wes.	Sea.			
Skudesnaes ...	30.22	44	43	S	4	f	4	Valencia	30.47	52	52	WSW	3	fd	4				
Thurso	30.12	44	42	S	2	o	3	Scilly											
Scarborough ...	30.39	45	42	WSW	1	g	2	London	30.49	45	45	SW	1	f	*				
Greencastle ...	30.29	48	47	SW	2	o	*	Rochefort ...	30.54	37	36	ENE	2	m	2				
Holyhead ...	30.44	49	48	SSW	2	mg	2												

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

	Bar.	Dry.	Wet.	Wind.	Wes.	Sea.		Bar.	Dry.	Wet.	Wind.	Wes.	Sea.		
Skudesnaes ...	30.22	44	43	S	4	f	4	Valencia	30.47	52	52	WSW	3	fd	4
Thurso	30.12	44	42	S	2	o	3	Scilly							
Scarborough ...	30.39	45	42	WSW	1	g	2	London	30.49	45	45	SW	1	f	*
Greencastle ...	30.29	48	47	SW	2	o	*	Rochefort ...	30.54	37	36	ENE	2	m	3
Holyhead ...	30.44	49	45	SSW	2	mg	2								

Pressure has begun to decrease again in Scotland, so that the fall is now general. Wind is light from N. to SW. Weather is dull, with mist, fog, and gloom.

EXPLANATION OF COLUMNS.

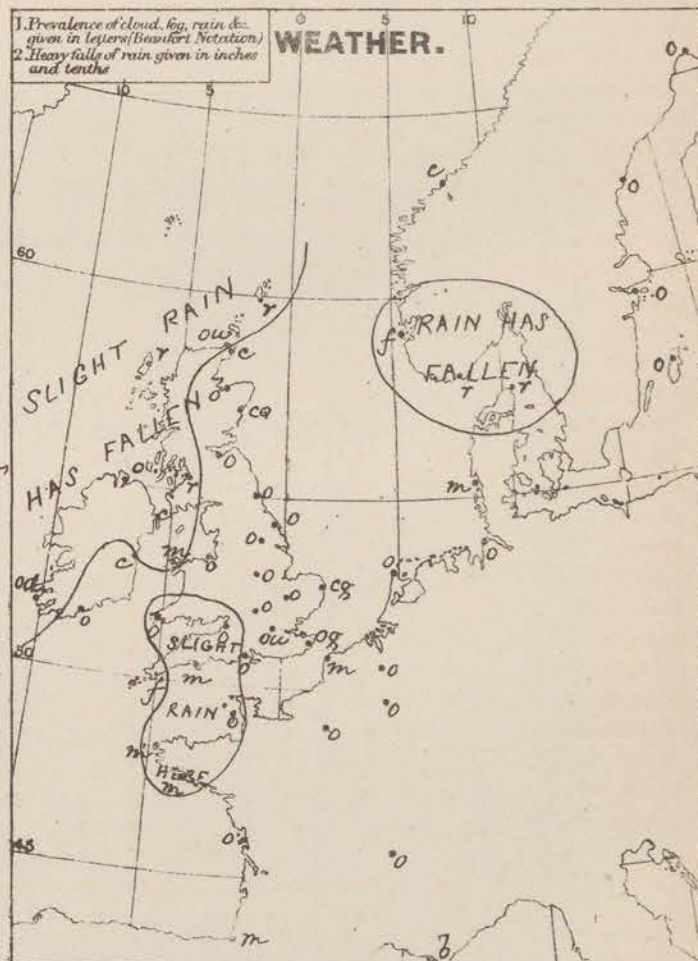
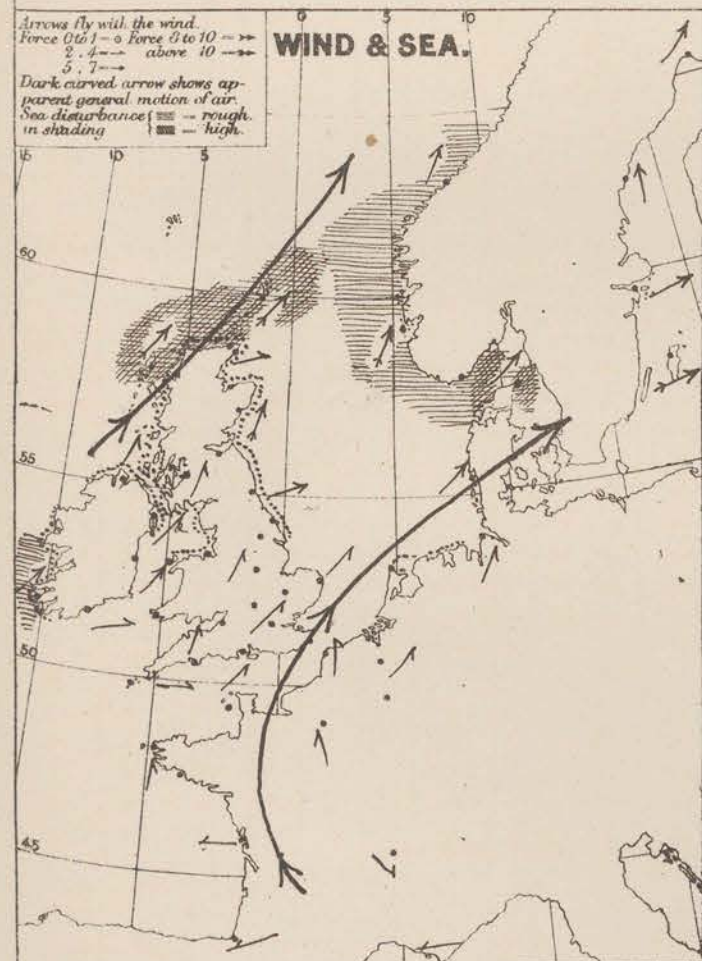
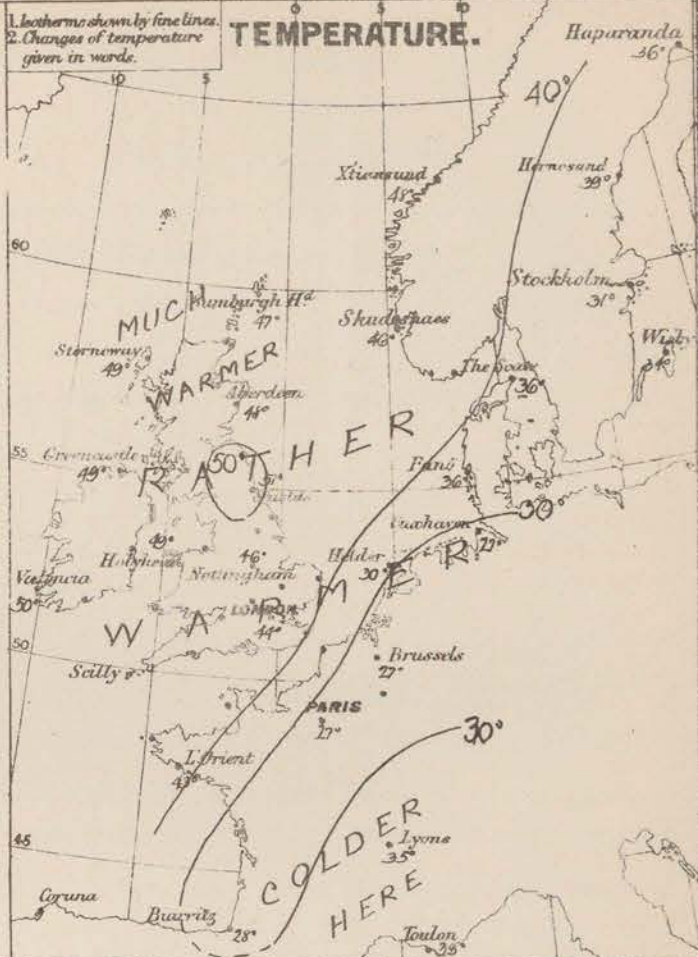
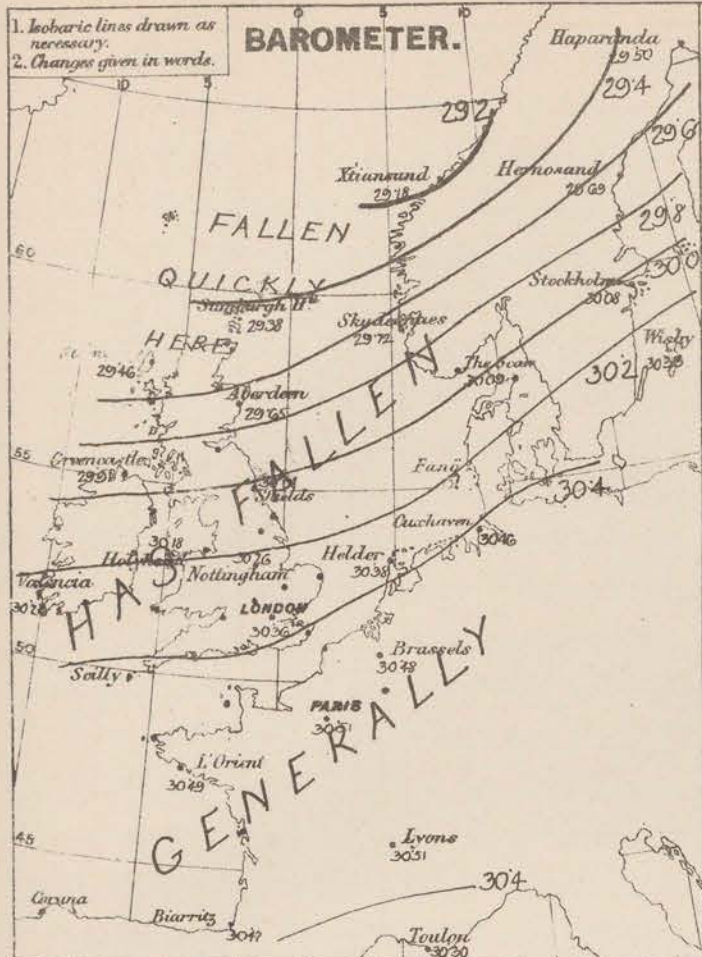
WEATHER.—Beaufort scale is, b. blue sky; c. detached clouds; d. drizzling rain; f. fog; g. dark, gloomy; h. hail; l. lightning; m. misty (hazy); o. overcast; p. passing showers; q. squally; r. rain; s. snow; t. thunder; u. ugly, threatening; v. visibility, unusual transparency; w. dew.

* 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 22ND DEC^R 1877.*



note A dotted line is drawn round those coats which have been worn this morning.

REMARKS. Weather is overcast or very cloudy in all parts of Western Europe, with rain at Valencia, Stormoway and Lumburg H. and in the Skager Rack; a good deal of mist is reported from the French stations, but the fog has entirely disappeared from these islands. Night rain fell in many places yesterday. Temperature has fallen slightly over France and North Germany, but has risen on our coasts and in Norway; in Scotland the increase is about 10°, and Wick (50°) is now 22° warmer than Rochefort and Biscuits, and 23° warmer than Paris. The thermometer varies from 48° to 50° over Holland and Ireland, and from 43° to 51° over England. Wind is E. over the greater part of France but is SW over the Channel, the British Isles and Scandinavia; about southern stations it is light in force, but over Holland and Scandinavia it blows a fresh or moderate gale. Sea is high in the north, rough off the coast of Ireland, moderate to slight on our other coasts. Barometrical Indications. Pressure has decreased in all places, the change varies from less than 0.1 in. in France to 0.9 in. at Christiansund. A very large depression lies off the west of Norway, and gradients are steep all over the more northern stations. Harnings. The signals were lowered in the extreme north and north west last evening, but the following has been sent to all our north, north west and north east coasts this morning:— "Barometer has fallen very rapidly in Norway. Gale now draws to W. Hail and cone. Saturday eleven twenty." NOTICE. For Christmas Holiday Arrangements see yesterday's report.

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 December 16th to December 22nd 1877.

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

Pressure during this week has been very unsteady, constant though generally unimportant decreases having occurred; during the greater part of the week the barometer was high, ranging from about 30.5 ins. or 30.6 ins. in the S. to about 30.0 ins. in the N. but on the 22nd a rapid fall in the N. reduced pressure to 29.2 ins. at Christiansund and to 29.5 ins. in the N. of Scotland. Wind has varied from SW to NW according to the positions of the areas of high and low pressure, it was generally light or moderate except on Saturday when it blew a gale in the N. Temperature has oscillated considerably but has been rather high as a rule on our coasts and low over France. Weather has been dull and during Wednesday, Thursday and Friday a great deal of fog prevailed.

DEC^r 16th A large area of low readings lay between Scotland and the SW. of Scandinavia and a small secondary disturbance near the W. coast of Denmark, while the highest pressures were reported from the N. of France; the mercury was rising over the whole of these Islands and the Bay of Biscay but falling over N. Germany, Denmark, Norway and Sweden. Wind was W. on our coasts, veering to NW in the N.; in the SW. of France it was E. while in Norway and Sweden it was more variable. It blew freshly in the N. and reached the force of a gale on the Mersey. Temperature had fallen in the SW. of Ireland but risen in most other parts of the United Kingdom and over France; in S. England the change was considerable. Weather was fine in the SW. and at Toulon, but was cloudy or dull elsewhere with rain in the NE and snow in the Gulf of Bothnia. The mercury rose at all the more N. stations during the day but fell again in the S. and the area of low pressure appeared to be passing SE.

DEC^r 17th The barometer was rising at all the more Eastern stations but was falling in the SW, W and NW. A fresh depression was approaching the NW. of Scotland where the decrease was brisk, the highest pressures still lay over the Bay of Biscay. Wind was moderate everywhere - SW. on most of our coasts and N. in the N. of France. Temperature had changed little and irregularly. In Sweden the weather was cold. The sky was cloudy or overcast with fog in the East, sleet at Fano and rain at Stornoway. Later Reports showed a fall of the barometer in the E. and S. and a general rise in the W. and N., the depression which had been advancing on our N. coasts, having passed SE across the North Sea.

DEC^r 18th The depression of the previous day had like its predecessor passed SE, its centre being shown over N. Germany at Danz. The barometer was falling at Fano and Cuxhaven but was rising in all other places. The highest readings lay off our SW. coasts. Wind was light or moderate - from SE at Valentia from W. at our more N. stations and from NW. to N. over the S. of England, the Channel, N. Germany and France. Temperature had fallen generally. The weather was fine except on our NW. coasts where the sky was overcast and in N. Germany where rain was falling. In the evening the barometer was falling in the W. though still rising elsewhere, and over Ireland the wind had backed to S.

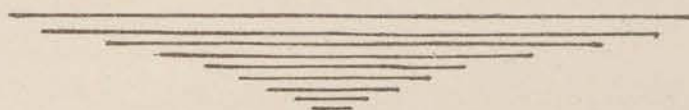
DEC^r 19th Pressure was changing very little; in the N. of England it was decreasing slightly, but in most other places the mercury was rising. Readings were highest (30.6 ins.) off our SW. coasts but were relatively low (30.2 ins.) both to the N. of Scotland and to the SE. of France. Wind was light or moderate - from W. on our coasts, from SE. in Scandinavia and from N. to NE over France. Temperature had risen at most of the N. and N. stations.

but fallen several degrees in the SE, and over the N. of France, it was rather low over Central England. Sky was generally cloudy, and over England and the N. of France a great deal of fog prevailed. During the day the mercury rose slowly everywhere, readings became more uniform, and the fog continued.

DEC^r 20th The barometer had fallen briskly during the night in the Hebrides and to a less extent at all the more Wth and Nth stations; in the SE and S. it still rose. A large area of high readings (30.6 ins.) lay over England and the N. of France but gradients were rather steep over Scotland. Wind remained NE^{ly} in France but over Ireland and Scotland it had backed to SW or S; and though generally light or moderate in force had increased to a fresh gale in the Hebrides. Temperature had fallen quickly over France and to a less extent at our Nth and NWth stations but had risen as much as 10° over the SE of England. Sky was cloudy or dull, with rain at Stornoway and Valentia, and a great deal of fog over England. By the evening the barometer was falling over the whole of Wth Europe and a SW^{ly} to S^{ly} wind prevailed on all our coasts.

DEC^r 21st The depression which had caused the fall of the mercury on the previous evening had apparently reached the Nth parts of Scandinavia. The barometer was consequently rising somewhat over Scotland; in all other places (except the SW. of France) it was still falling. The wind was light generally and had veered to W. on our coasts as well as over the North Sea, but was still NE^{ly} in France. Temperature had risen over Ireland and England but fallen in Scotland and France, in the latter country the weather was cold, Paris being 14° colder than London and 21° colder than Leith. Weather was dull, and fog and mist were still reported from several places. During the day the barometer again fell everywhere — especially in the N. of Scotland and at Christianund while the wind backed to SW once more and freshened.

DEC^r 22nd A very large and rather deep depression had advanced from the Wth to the W. coast of Norway, the barometer had fallen nearly an inch at Christianund, three quarters of an inch in the N. of Scotland and from 0.4 to 0.2 in. over England. Gradients were steep, and the wind which was SW^{ly} generally, blew with the force of a gale in the E. and N. of Scotland and the S. of Norway. Temperature had risen over these Islands, quietly in the NE. of Scotland, but in the W. of France it had fallen again and the weather at Biarritz and Rochefort (28°) was 22° colder than that in Scotland and 8° colder than that in Lapland. Sky was overcast and dull but all the fog had disappeared. During the day the depression apparently moved away Eth; the wind veered in these Islands and the barometer rose in Scotland.



DAILY WEATHER REPORT

DEC^r 23rd 1877.

STATIONS.	↑ YESTERDAY EVENING.						8 A.M. TO DAY.										PAST 24 HOURS.		
	Barometer at 32° F. and Sea Level.	Temp. in shade.	WIND.		Weather.	BAROMETER.		SHADE TEMP.			WIND.		Weather.	Sea. (0 to 9.)	SHADE TEMP.		Amount of Rainfall.		
			Dir.	Force. (0 to 12).		Reading at 32° F. and Sea Level.	Difference from 8 a.m. yesterday.	Dry.	Wet.	Difference from 8 a.m. yesterday.	Dir.	Force. (0 to 12).			Max.	Min.			
Haparanda ...	29.02	36	S	8	r	28.86	- .64	36	34	0	SW	4	0	*	37	34	0.24		
Hernösand ...	29.22	37	S	8	o	29.14	- .55	36	35	- 3	N NW	2	c	*	*	*	-		
Stockholm ...	29.57	33	WSW	9	o	29.27	- .81	35	33	+ 2	SSW	6	s	*	*	*	0.12		
Wisby ...	29.87	34	WSW	9	r	29.49	- .54	34	34	0	WSW	8	n	*	*	*	0.08		
Christiansund ...	29.04	38	N	9	r	29.12	- .06	28	28	- 20	WSW	9	s	7	46	25	-		
Skudesnaes ...	29.30	45	N	7	o	29.48	- .24	33	31	- 13	NE	2	s	4	46	?	-		
Oxö (Xiansand) ...	29.40	46	SSW	8	r	29.32	- .62	37	33	- 8	NW	4	o	3	46	36	0.04		
Skagen (The Seaw) ...	29.49	41	SW	8	r	29.30	- .79	40	39	+ 4	N	3	o	2	43	36	0.75		
Fanö ...	29.57	41	SW	7	r	29.45	?	41	39	+ 5	N	6	c	*	43	36	0.43		
Cuxhaven ...	30.17	30	SSW	5	o	29.58	- .88	38	38	+ 11	WSW	5	r	*	?	25	0.12		
Sumburgh Head ...	29.36	36	NNE	3	c	29.56	+ .18	31	30	- 16	N	6	s	5	30	27	0.18		
Stornoway ...	29.56	40	WSW	4	c	29.82	+ .36	35	33	- 14	N NW	6	gpcn	6	31	32	0.19		
Thurso ...	29.45	42	N	5	bc	29.73	+ .26	36	33	- 14	NW	5	c	5	35	34	0.32		
Wick ...	29.39	38	N	5	bc	29.74	+ .26	33	30	- 17	NNW	4	os	2	33	30	0.23		
Nairn ...	29.56	41	SW	2	bc	29.79	+ .23	33	32	- 17	SW	1	b	1	31	32	0.20		
Aberdeen ...	29.51	45	NW	3	r	29.74	+ .09	35	33	- 13	NNW	3	b	1	34	35	0.07		
Leith ...	29.57	51	WSW	5	c	29.86	.00	36	35	- 14	N	3	b	*	32	35	0.01		
Shields ...	29.70	52	N	7	c	29.89	- .12	36	34	- 15	N NW	4	c	2	32	35	-		
Scarborough ...	29.82	49	SW	3	o	29.92	- .15	38	35	- 9	NW	2	b	2	30	38	-		
York ...	29.84	50	SW	1	o	29.95	- .19	38	35	- 8	NNW	3	b	*	32	34	-		
Nottingham ...	29.95	49	S	5	o	30.03	- .13	37	35	- 9	NNW	2	b	*	31	36	-		
Ardrossan ...	29.66	51	SW	3	r	29.94	- .01	40	38	- 9	NW	2	bc	2	32	39	0.37		
Greencastle ...	29.70	51	N	4	r	30.03	+ .12	40	37	- 9	NNW	3	o	*	33	38	0.24		
Donaghadee ...	29.78	48	WSW	4	r	30.04	- .04	38	37	- 9	NNW	3	b	2	30	37	0.07		
Kingstown ...	29.91	52	N	5	b	30.13	- .04	41	39	- 9	N NW	5	b	4	32	43	0.04		
Holyhead ...	29.94	50	SW	6	m	30.09	- .09	44	40	- 5	NW	6	bc	5	31	43	0.22		
Liverpool (Bidston) ...	29.92	49	SW	5	o	30.04	- .15	42	40	- 8	N	5	o	2	32	40	0.06		
Valencia ...	30.08	52	WSW	6	o	30.28	+ .02	45	41	- 5	N	3	o	3	33	44	0.06		
Roche's Point... ..	30.15	49	WSW	4	c	30.24	- .05	43	40	- 6	NNW	3	b	3	32	42	-		
Pembroke ...	30.09	50	WSW	5	o	30.15	- .16	43	39	- 6	NNW	2	b	2	31	43	0.01		
Portishead ...	30.13	45	SW	5	r	30.09	- .24	43	40	- 3	N NW	3	bc	3	49	41	0.03		
Seilly ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Plymouth ...	30.20	49	SW	1	o	30.12	- .12	45	43	- 3	NE	4	bc	*	31	45	0.03		
Hurst Castle ...	30.16	49	SW	5	r	30.03	- .34	46	44	- 3	N	3	o	3	30	44	0.02		
Dover ...	30.16	48	SSW	6	o	29.95	- .46	44	42	+ 1	NW	5	bcg	2	49	42	0.05		
London ...	30.15	49	WSW	4	o	30.03	- .33	43	39	- 1	NW	4	bc	*	30	43	0.06		
Oxford ...	...	...	...	...	...	30.06	- .27	41	39	- 4	NW	3	c	*	30	41	0.03
Cambridge ...	30.03	48	SW	2	o	29.99	- .32	39	36	- 5	NNW	1	b	*	30	30	0.04		
Yarmouth ...	30.02	47	WSW	5	o	29.91	- .39	40	38	- 3	NW	4	b	2	47	38	0.05		
The Helder ...	...	...	...	...	...	29.93	- .65	45	43	+ 15	NW	3	c	*	*	*	0.16
Cape Gris Nez ...	30.21	45	WSW	6	f	29.94	- .49	46	46	+ 12	N	5	r	4	?	32	0.12		
Jersey ...	30.32	49	WSW	4	o	30.10	- .37	50	50	+ 4	WSW	6	m	5	30	46	0.10		
Brest ...	30.37	50	N	4	m	30.16	- .31	50	50	+ 2	NW	4	f	4	30	46	0.08		
L'Orient ...	30.39	48	N	2	o	30.21	- .28	48	48	+ 5	NNW	5	m	3	32	41	-		
Roche fort ...	30.43	43	ESE	3	b	30.31	- .17	37	36	+ 9	S	4	o	3	?	?	-		
Biarritz ...	30.45	52	ENE	3	o	30.35	- .09	28	27	0	ESE	3	bc	3	?	25	-		
Corunna ...	...	...	...	...	...	30.39	...	44	...	...	NW	3	f	1	...	...	...
Brussels ...	...	...	...	...	...	29.94	- .56	36	...	+ 9	SW	4	r	*	...	...	0.04
Charleville ...	...	...	...	...	...	? 30.02	- .46	31	...	+ 6	SSE	3	r	*	...	...	...
Paris ...	30.38	34	S	2	f	30.11	- .40	36	35	+ 9	SSW	2	o	*	...	...	-
Lyons ...	...	...	...	...	...	30.36	- .15	35	...	0	NE	2	o	*	...	...	...
Toulon ...	30.28	45	N	1	b	?	?	36	36	- 3	N	2	m	3	46	39	-		

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

	Bar.	Dry.	Wet.	Wind.	Wes.	Sea.		Bar.	Dry.	Wet.	Wind.	Wes.	Sea.		
Skudesnaes ...	29.35	46	45	SW	8	f	6	Valencia	30.14	51	50	WSW	6	omu	6
Thurso	29.32	45	45	N	6	r	5	Scilly							
Scarborough ...	29.88	49	46	SW	6	o	5	London	30.20	50	48	SW	3	o	*
Greencastle ...	29.75	51	50	N	4	o	*	Roche fort ...	30.43	32	?	E	3	bc	3
Holyhead	30.02	49	49	SW	6	m	5								

The barometer after falling to 29.27 in at Thurso about 1 P.M. has begun to rise again in the North. In the N. and S. however, it is still falling. Steep gradients for NW winds prevail all over the Kingdom, and the wind is now rising in the N. of England.

EXPLANATION OF COLUMNS.

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

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

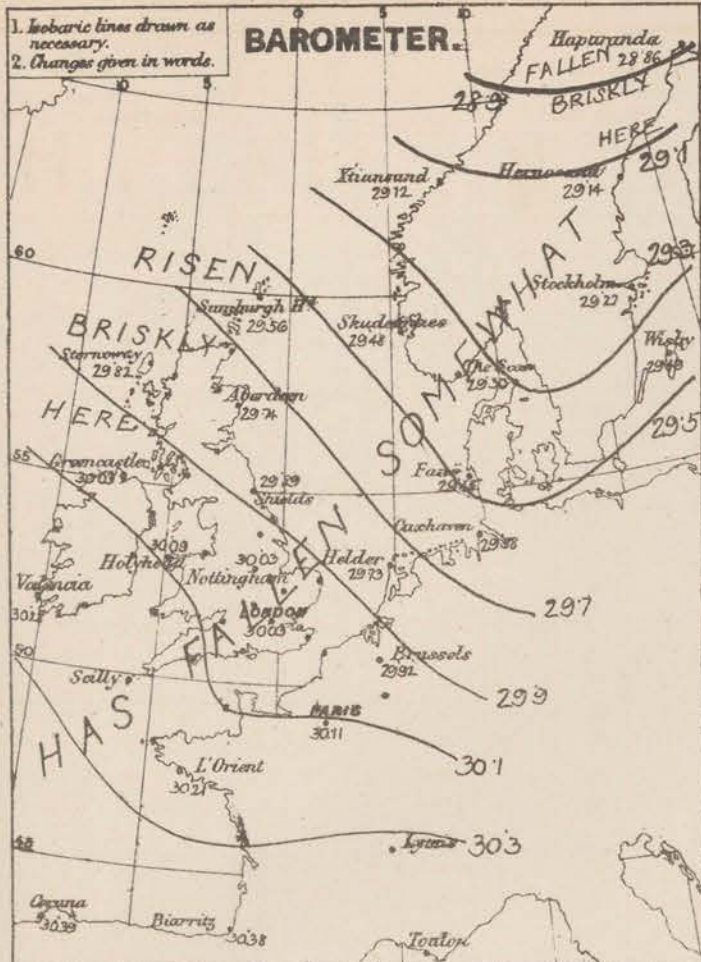
† The evening observations are taken at 6 p.m. in our Islands, at 8 p.m. (Christiania time) in Sweden, Norway, and Denmark, and at 7 p.m. (Paris time) in France.

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

WEATHER CHARTS for 8 a.m. on Sunday 23RD DEC^R 1877.

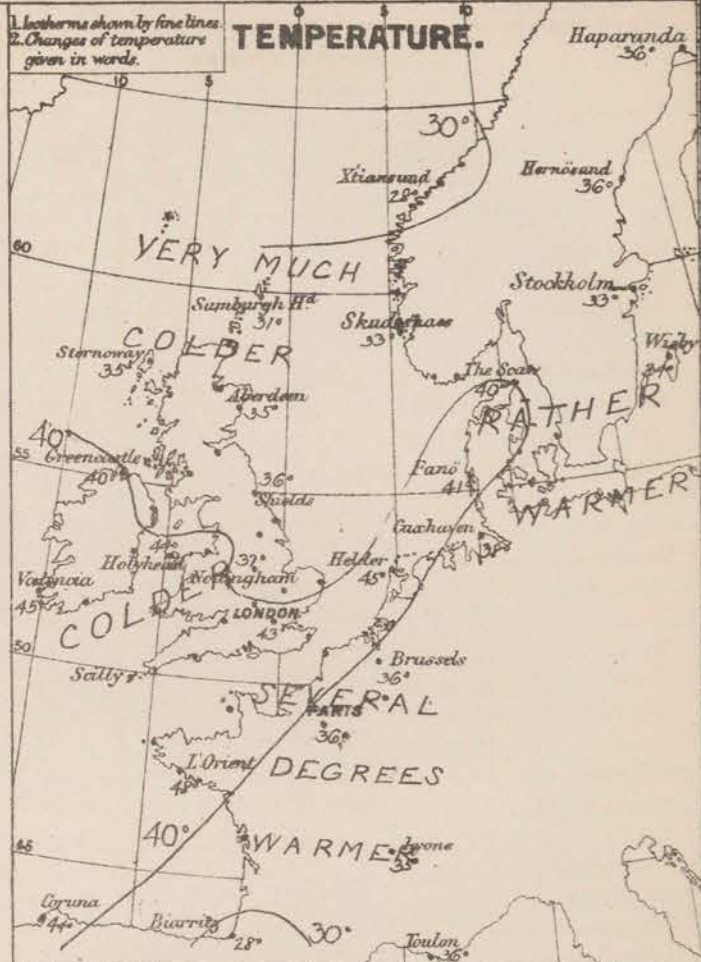
1. Isobaric lines drawn as necessary.
2. Changes given in words.

BAROMETER.



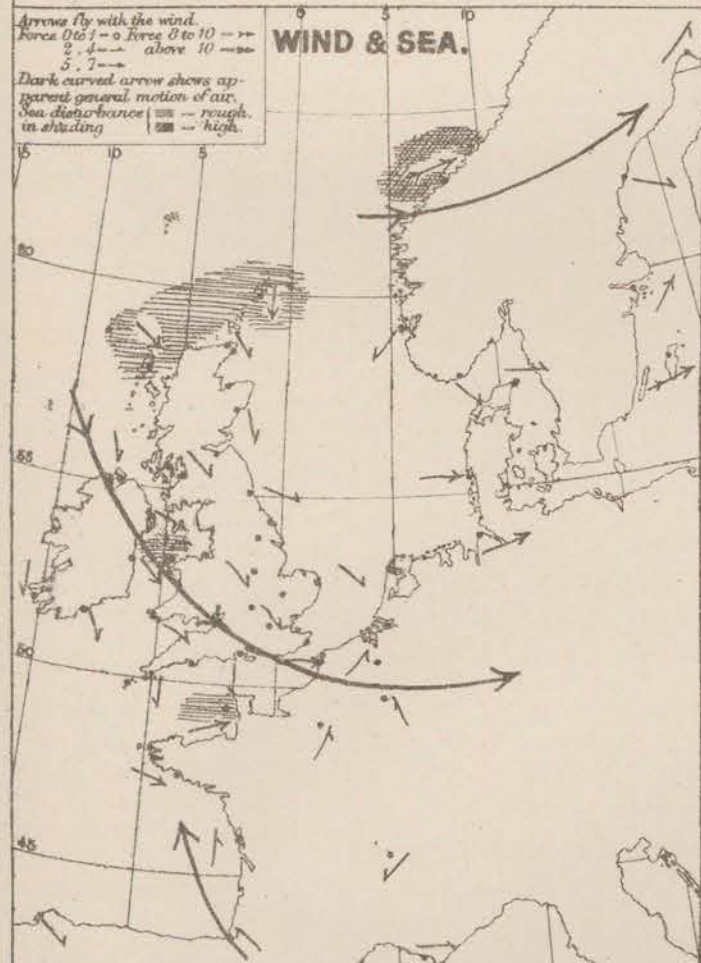
1. Isotherms shown by fine lines
2. Changes of temperature given in words.

TEMPERATURE.



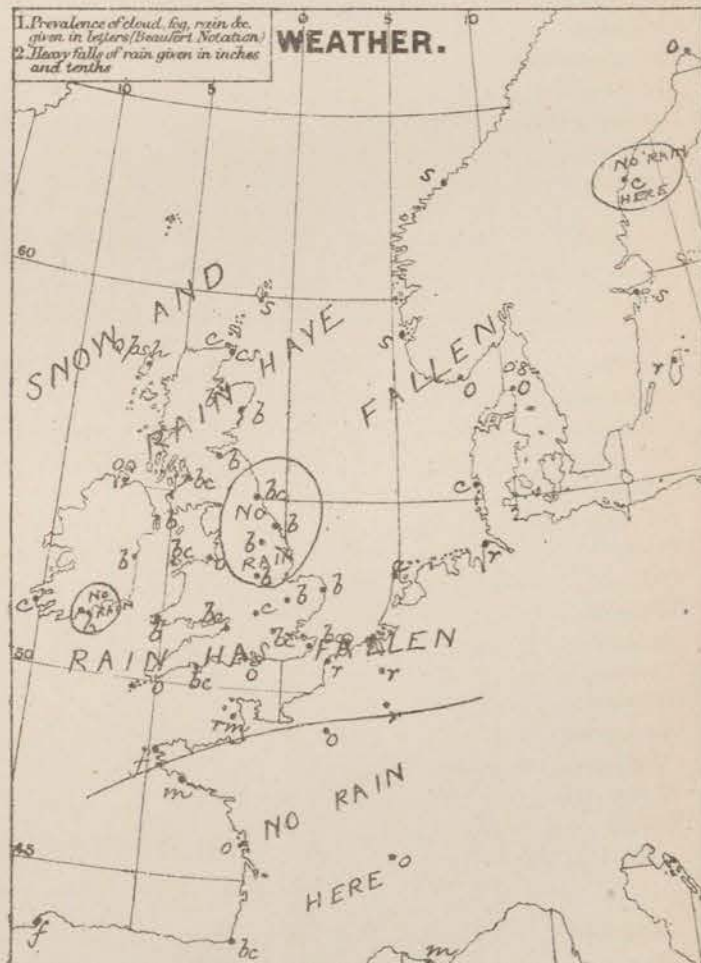
1. Arrows fly with the wind. Force 0 to 10 — 10 — 20 — 30 — 40 — 50 — 60 — 70 — 80 — 90 — 100 — 110 — 120 — 130 — 140 — 150 — 160 — 170 — 180 — 190 — 200 — 210 — 220 — 230 — 240 — 250 — 260 — 270 — 280 — 290 — 300 — 310 — 320 — 330 — 340 — 350 — 360 — 370 — 380 — 390 — 400 — 410 — 420 — 430 — 440 — 450 — 460 — 470 — 480 — 490 — 500 — 510 — 520 — 530 — 540 — 550 — 560 — 570 — 580 — 590 — 600 — 610 — 620 — 630 — 640 — 650 — 660 — 670 — 680 — 690 — 700 — 710 — 720 — 730 — 740 — 750 — 760 — 770 — 780 — 790 — 800 — 810 — 820 — 830 — 840 — 850 — 860 — 870 — 880 — 890 — 900 — 910 — 920 — 930 — 940 — 950 — 960 — 970 — 980 — 990 — 1000 — 1010 — 1020 — 1030 — 1040 — 1050 — 1060 — 1070 — 1080 — 1090 — 1100 — 1110 — 1120 — 1130 — 1140 — 1150 — 1160 — 1170 — 1180 — 1190 — 1200 — 1210 — 1220 — 1230 — 1240 — 1250 — 1260 — 1270 — 1280 — 1290 — 1300 — 1310 — 1320 — 1330 — 1340 — 1350 — 1360 — 1370 — 1380 — 1390 — 1400 — 1410 — 1420 — 1430 — 1440 — 1450 — 1460 — 1470 — 1480 — 1490 — 1500 — 1510 — 1520 — 1530 — 1540 — 1550 — 1560 — 1570 — 1580 — 1590 — 1600 — 1610 — 1620 — 1630 — 1640 — 1650 — 1660 — 1670 — 1680 — 1690 — 1700 — 1710 — 1720 — 1730 — 1740 — 1750 — 1760 — 1770 — 1780 — 1790 — 1800 — 1810 — 1820 — 1830 — 1840 — 1850 — 1860 — 1870 — 1880 — 1890 — 1900 — 1910 — 1920 — 1930 — 1940 — 1950 — 1960 — 1970 — 1980 — 1990 — 2000 — 2010 — 2020 — 2030 — 2040 — 2050 — 2060 — 2070 — 2080 — 2090 — 2100 — 2110 — 2120 — 2130 — 2140 — 2150 — 2160 — 2170 — 2180 — 2190 — 2200 — 2210 — 2220 — 2230 — 2240 — 2250 — 2260 — 2270 — 2280 — 2290 — 2300 — 2310 — 2320 — 2330 — 2340 — 2350 — 2360 — 2370 — 2380 — 2390 — 2400 — 2410 — 2420 — 2430 — 2440 — 2450 — 2460 — 2470 — 2480 — 2490 — 2500 — 2510 — 2520 — 2530 — 2540 — 2550 — 2560 — 2570 — 2580 — 2590 — 2600 — 2610 — 2620 — 2630 — 2640 — 2650 — 2660 — 2670 — 2680 — 2690 — 2700 — 2710 — 2720 — 2730 — 2740 — 2750 — 2760 — 2770 — 2780 — 2790 — 2800 — 2810 — 2820 — 2830 — 2840 — 2850 — 2860 — 2870 — 2880 — 2890 — 2900 — 2910 — 2920 — 2930 — 2940 — 2950 — 2960 — 2970 — 2980 — 2990 — 3000 — 3010 — 3020 — 3030 — 3040 — 3050 — 3060 — 3070 — 3080 — 3090 — 3100 — 3110 — 3120 — 3130 — 3140 — 3150 — 3160 — 3170 — 3180 — 3190 — 3200 — 3210 — 3220 — 3230 — 3240 — 3250 — 3260 — 3270 — 3280 — 3290 — 3300 — 3310 — 3320 — 3330 — 3340 — 3350 — 3360 — 3370 — 3380 — 3390 — 3400 — 3410 — 3420 — 3430 — 3440 — 3450 — 3460 — 3470 — 3480 — 3490 — 3500 — 3510 — 3520 — 3530 — 3540 — 3550 — 3560 — 3570 — 3580 — 3590 — 3600 — 3610 — 3620 — 3630 — 3640 — 3650 — 3660 — 3670 — 3680 — 3690 — 3700 — 3710 — 3720 — 3730 — 3740 — 3750 — 3760 — 3770 — 3780 — 3790 — 3800 — 3810 — 3820 — 3830 — 3840 — 3850 — 3860 — 3870 — 3880 — 3890 — 3900 — 3910 — 3920 — 3930 — 3940 — 3950 — 3960 — 3970 — 3980 — 3990 — 4000 — 4010 — 4020 — 4030 — 4040 — 4050 — 4060 — 4070 — 4080 — 4090 — 4100 — 4110 — 4120 — 4130 — 4140 — 4150 — 4160 — 4170 — 4180 — 4190 — 4200 — 4210 — 4220 — 4230 — 4240 — 4250 — 4260 — 4270 — 4280 — 4290 — 4300 — 4310 — 4320 — 4330 — 4340 — 4350 — 4360 — 4370 — 4380 — 4390 — 4400 — 4410 — 4420 — 4430 — 4440 — 4450 — 4460 — 4470 — 4480 — 4490 — 4500 — 4510 — 4520 — 4530 — 4540 — 4550 — 4560 — 4570 — 4580 — 4590 — 4600 — 4610 — 4620 — 4630 — 4640 — 4650 — 4660 — 4670 — 4680 — 4690 — 4700 — 4710 — 4720 — 4730 — 4740 — 4750 — 4760 — 4770 — 4780 — 4790 — 4800 — 4810 — 4820 — 4830 — 4840 — 4850 — 4860 — 4870 — 4880 — 4890 — 4900 — 4910 — 4920 — 4930 — 4940 — 4950 — 4960 — 4970 — 4980 — 4990 — 5000 — 5010 — 5020 — 5030 — 5040 — 5050 — 5060 — 5070 — 5080 — 5090 — 5100 — 5110 — 5120 — 5130 — 5140 — 5150 — 5160 — 5170 — 5180 — 5190 — 5200 — 5210 — 5220 — 5230 — 5240 — 5250 — 5260 — 5270 — 5280 — 5290 — 5300 — 5310 — 5320 — 5330 — 5340 — 5350 — 5360 — 5370 — 5380 — 5390 — 5400 — 5410 — 5420 — 5430 — 5440 — 5450 — 5460 — 5470 — 5480 — 5490 — 5500 — 5510 — 5520 — 5530 — 5540 — 5550 — 5560 — 5570 — 5580 — 5590 — 5600 — 5610 — 5620 — 5630 — 5640 — 5650 — 5660 — 5670 — 5680 — 5690 — 5700 — 5710 — 5720 — 5730 — 5740 — 5750 — 5760 — 5770 — 5780 — 5790 — 5800 — 5810 — 5820 — 5830 — 5840 — 5850 — 5860 — 5870 — 5880 — 5890 — 5900 — 5910 — 5920 — 5930 — 5940 — 5950 — 5960 — 5970 — 5980 — 5990 — 6000 — 6010 — 6020 — 6030 — 6040 — 6050 — 6060 — 6070 — 6080 — 6090 — 6100 — 6110 — 6120 — 6130 — 6140 — 6150 — 6160 — 6170 — 6180 — 6190 — 6200 — 6210 — 6220 — 6230 — 6240 — 6250 — 6260 — 6270 — 6280 — 6290 — 6300 — 6310 — 6320 — 6330 — 6340 — 6350 — 6360 — 6370 — 6380 — 6390 — 6400 — 6410 — 6420 — 6430 — 6440 — 6450 — 6460 — 6470 — 6480 — 6490 — 6500 — 6510 — 6520 — 6530 — 6540 — 6550 — 6560 — 6570 — 6580 — 6590 — 6600 — 6610 — 6620 — 6630 — 6640 — 6650 — 6660 — 6670 — 6680 — 6690 — 6700 — 6710 — 6720 — 6730 — 6740 — 6750 — 6760 — 6770 — 6780 — 6790 — 6800 — 6810 — 6820 — 6830 — 6840 — 6850 — 6860 — 6870 — 6880 — 6890 — 6900 — 6910 — 6920 — 6930 — 6940 — 6950 — 6960 — 6970 — 6980 — 6990 — 7000 — 7010 — 7020 — 7030 — 7040 — 7050 — 7060 — 7070 — 7080 — 7090 — 7100 — 7110 — 7120 — 7130 — 7140 — 7150 — 7160 — 7170 — 7180 — 7190 — 7200 — 7210 — 7220 — 7230 — 7240 — 7250 — 7260 — 7270 — 7280 — 7290 — 7300 — 7310 — 7320 — 7330 — 7340 — 7350 — 7360 — 7370 — 7380 — 7390 — 7400 — 7410 — 7420 — 7430 — 7440 — 7450 — 7460 — 7470 — 7480 — 7490 — 7500 — 7510 — 7520 — 7530 — 7540 — 7550 — 7560 — 7570 — 7580 — 7590 — 7600 — 7610 — 7620 — 7630 — 7640 — 7650 — 7660 — 7670 — 7680 — 7690 — 7700 — 7710 — 7720 — 7730 — 7740 — 7750 — 7760 — 7770 — 7780 — 7790 — 7800 — 7810 — 7820 — 7830 — 7840 — 7850 — 7860 — 7870 — 7880 — 7890 — 7900 — 7910 — 7920 — 7930 — 7940 — 7950 — 7960 — 7970 — 7980 — 7990 — 8000 — 8010 — 8020 — 8030 — 8040 — 8050 — 8060 — 8070 — 8080 — 8090 — 8100 — 8110 — 8120 — 8130 — 8140 — 8150 — 8160 — 8170 — 8180 — 8190 — 8200 — 8210 — 8220 — 8230 — 8240 — 8250 — 8260 — 8270 — 8280 — 8290 — 8300 — 8310 — 8320 — 8330 — 8340 — 8350 — 8360 — 8370 — 8380 — 8390 — 8400 — 8410 — 8420 — 8430 — 8440 — 8450 — 8460 — 8470 — 8480 — 8490 — 8500 — 8510 — 8520 — 8530 — 8540 — 8550 — 8560 — 8570 — 8580 — 8590 — 8600 — 8610 — 8620 — 8630 — 8640 — 8650 — 8660 — 8670 — 8680 — 8690 — 8700 — 8710 — 8720 — 8730 — 8740 — 8750 — 8760 — 8770 — 8780 — 8790 — 8800 — 8810 — 8820 — 8830 — 8840 — 8850 — 8860 — 8870 — 8880 — 8890 — 8900 — 8910 — 8920 — 8930 — 8940 — 8950 — 8960 — 8970 — 8980 — 8990 — 9000 — 9010 — 9020 — 9030 — 9040 — 9050 — 9060 — 9070 — 9080 — 9090 — 9100 — 9110 — 9120 — 9130 — 9140 — 9150 — 9160 — 9170 — 9180 — 9190 — 9200 — 9210 — 9220 — 9230 — 9240 — 9250 — 9260 — 9270 — 9280 — 9290 — 9300 — 9310 — 9320 — 9330 — 9340 — 9350 — 9360 — 9370 — 9380 — 9390 — 9400 — 9410 — 9420 — 9430 — 9440 — 9450 — 9460 — 9470 — 9480 — 9490 — 9500 — 9510 — 9520 — 9530 — 9540 — 9550 — 9560 — 9570 — 9580 — 9590 — 9600 — 9610 — 9620 — 9630 — 9640 — 9650 — 9660 — 9670 — 9680 — 9690 — 9700 — 9710 — 9720 — 9730 — 9740 — 9750 — 9760 — 9770 — 9780 — 9790 — 9800 — 9810 — 9820 — 9830 — 9840 — 9850 — 9860 — 9870 — 9880 — 9890 — 9900 — 9910 — 9920 — 9930 — 9940 — 9950 — 9960 — 9970 — 9980 — 9990 — 10000

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 clear over nearly the whole of the United Kingdom, but is very cloudy at the Continental stations; snow is falling in the west of Norway, and rain in Belgium and the north east of France. Heavy showers of sleet and snow fell in Scotland yesterday and some rain at most of our southern stations. Temperature has risen at the French, North German and Danish stations, but fallen elsewhere; very many depressions in Scotland and the west of Norway, where the weather is now cold. The readings over the United Kingdom now vary from 33° in some parts of Scotland to 40° at our eastern and central stations, and 45° in the south of Ireland and England. Wind is N.W. in the British Isles, but draws into W. at the Danish, and into S.W. at the Scandinavian stations, while in the north west of France it is S.W. It is generally moderate in force, but blows rather strongly in the north of Scotland, and with the force of a strong gale at Christiansund. Sea is high at Christiansund, rough to the N.W. of the Irish coast and off Holyhead, moderate or smooth elsewhere.

Barometrical Indications. The large depression which lay yesterday morning to the N.W. of these Islands has now travelled away N.E., and the barometer has risen briskly over Scotland. The recovery has, however, not yet extended to our southern and south eastern stations. There is at present no sign of any fresh disturbance.

Warnings. The South Sea has been lowered in the north-west, north and north east this morning.

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

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

R. H. SCOTT.

Secretary

DAILY WEATHER REPORT

DEC 24th

1877.

STATIONS.	† YESTERDAY EVENING.					8 A.M. TO DAY.										PAST 24 HOURS.		
	Barometer at 32° F. and Sea Level.	Temp. in shade.	Wind.		Weather.	Barometer.		SHADE TEMP.			WIND.		Weather.	Sea. (0 to 9.)	SHADE TEMP.		Amount of Rainfall.	
			Dir.	Force (0 to 12).		Reading at 32° F. and Sea Level.	Difference from 8 a.m. yesterday.	Dry.	Wet.	Difference from 8 a.m. yesterday.	Dir.	Force. (0 to 12).			Max.	Min.		
Haparanda ...	29.11	25	Z	0	δ	29.20	+ .34	18	17	- 18	Z	0	δc	*	36	16	-	
Hernösand ...	29.17	20	NNH	2	δ	29.08	- .06	19	19	- 17	H	2	δc	*	*	*	0.04	
Stockholm ...	30.22	30	NNH	6	0	29.26	- .01	24	23	- 9	SH	2	δ	*	*	*	0.35	
Wiaby ...	29.81	36	HH	8	S	29.41	- .08	33	32	- 1	H	6	δc	*	*	*	0.71	
Christiansund ...																		
Skudesnaes ...	29.55	32	NNH	6	S	29.08	- .40	35	34	+ 2	?	8	S	5	?	30	-	
Oxö (Ålön) ...	29.51	32	NNH	4	δ	29.38	+ .06	35	32	- 2	NNH	2	0	2	37	30	-	
Skagen (The Seaw)	29.45	34	NNH	5	δ	29.44	+ .14	35	33	- 5	NNH	3	0	3	41	30	-	
Fanö ...	29.72	36	NNH	6	0	29.52	+ .07	40	38	- 1	NSH	4	0	*	41	32	0.04	
Coxhaven ...	29.76	4	HH	8	H	29.72	+ .14	36	36	- 2	NSH	5	H	*	39	34	0.04	
Sumburgh Head	29.66	33	NNH	5	0	29.11	- .48	30	30	- 1	NNE	6	S	6	34	27	0.98	
Stornoway ...	29.82	35	SH	2	0	29.41	- .35	32	32	- 3	NNH	6	S	6	49	31	0.52	
Thurso ...	29.78	37	H	3	0	29.22	- .51	37	36	+ 1	N	8	sg	7	40	31	0.70	
Wick ...	29.78	33	N	4	0	29.24	- .50	35	34	+ 2	NNH	4	0	2	37	30	0.59	
Nairn ...	29.87	35	NN	2	0	29.29	- .50	37	35	+ 4	NN	7	H	4	39	29	0.29	
Aberdeen ...	29.86	35	NN	3	δ	29.13	- .61	38	35	+ 3	NNH	7	p	3	40	33	0.03	
Leith ...	29.99	37	H	3	δc	29.30	- .56	40	38	+ 4	H	5	δc	*	44	?	0.15	
Shields ...	30.02	37	NNW	2	δ	29.39	- .50	42	39	+ 6	NNH	5	δ	3	44	35	0.03	
Scarborough ...	30.04	38	NN	2	δ	29.45	- .47	43	41	+ 5	NSH	5	0	4	43	36	0.07	
York ...	30.09	39	NNH	1	δ	29.51	- .44	44	41	+ 6	H	5	0	*	44	35	-	
Nottingham ...	30.16	39	Z	0	0	29.63	- .40	42	40	+ 5	H	7	δ	*	45	36	0.01	
Ardrossan ...	30.01	43	NNH	3	0	29.38	- .56	45	40	+ 5	NNH	8	cg	4	48	40	0.32	
Greencastle ...	30.07	42	H	2	0	29.55	- .48	39	38	- 1	NNH	6	0	*	45	36	0.31	
Donaghadee ...	30.12	39	NNH	3	δ	29.57	- .47	39	38	+ 1	H	5	δ	4	43	37	0.05	
Kingstown ...	30.21	43	NNH	4	δ	29.73	- .40	45	43	+ 4	NNH	6	δc	5	45	40	0.01	
Holyhead ...	30.19	44	NNH	4	0	29.71	- .38	46	44	+ 2	H	7	omw	5	47	42	0.07	
Liverpool (Bidston)	30.13	43	H	5	δ	29.60	- .44	43	43	+ 1	NSH	8	H	5	44	40	0.02	
Valencia ...	30.34	44	NNH	2	0	30.02	- .26	48	45	+ 3	NNH	4	0	4	49	41	0.03	
Roche's Point...	30.29	46	H	4	0	29.95	- .29	46	45	+ 3	H	4	0	4	46	43	-	
Pembroke ...	30.27	44	NNH	2	δc	29.87	- .38	48	45	+ 5	H	7	0	4	48	43	-	
Portishead ...	30.23	41	NNH	4	δc	29.87	- .22	44	43	+ 1	NSH	6	sg	5	47	38	0.02	
Scilly ...																		
Plymouth ...	30.29	42	NN	2	δc	30.01	- .11	44	43	- 1	SH	4	0	*	47	40	-	
Hurst Castle ...	30.22	43	NNH	2	δ	29.93	- .10	47	45	+ 1	NNH	5	0	5	48	38	-	
Dover ...	30.20	40	NN	4	δc	29.90	- .05	42	39	- 2	NSH	5	δc	4	44	37	-	
London ...	30.21	42	NN	2	δ	29.66	- .17	42	39	- 1	NSH	5	sg	*	45	35	-	
Oxford ...	*	*	*	*	*	29.83	- .23	41	40	0	SH	3	0	*	45	35	-	
Cambridge ...	30.18	40	NNH	1	0	29.77	- .22	40	39	+ 1	SH	2	cu	*	46	35	-	
Yarmouth ...	30.08	38	NNH	3	δ	29.74	- .17	39	37	- 1	NSH	5	bgg	2	42	33	-	
The Helder ...	*	*	*	*	*	29.75	+ .02	43	39	- 2	SH	5	0	*	*	*	0.08	
Cape Gris Nez	30.20	43	H	4	δ	29.93	- .01	46	43	- 1	H	6	0	5	46	41	-	
Jersey ...	30.30	45	N	2	0	30.11	+ .01	46	43	- 4	H	5	0	4	3	42	0.06	
Brest ...	30.24	30	NNE	2	δ	30.22	+ .06	46	41	- 4	NN	4	0	4	32	41	-	
L'Orient ...	30.20	46	NE	3	0	30.23	+ .02	43	41	- 5	NN	2	0	2	34	39	0.04	
Rochefort ...	30.26	46	S	3	0	30.23	- .08	41	41	+ 4	ESE	3	g	3	48	37	0.28	
Biarritz ...	30.34	?	SSE	2	0	30.28	- .10	46	45	+ 18	SSE	4	0	3	48	37	-	
Corunna ...	*	*	*	*	*										*	*	*	
Brussels ...	*	*	*	*	*	29.97	+ .05	37	*	+ 1	SH	4	0	*	*	*	0.01	
Charleville ...	*	*	*	*	*	30.08	+ .06	31	*	0	SSE	3	0	*	*	*	*	
Paris ...	30.22	41	NN	3	δ	30.13	+ .02	31	?	- 5	SH	3	g	*	*	*	0.08	
Lyons ...	*	*	*	*	*	30.27	- .09	39	*	+ 4	S	4	0	*	*	*	*	
Toulon ...																		

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

Bar.	Dry.	Wet.	Wind.	Wes.	Sea.	Bar.	Dry.	Wet.	Wind.	Wes.	Sea.
Skudesnaes ...	29.50	32	32	NNH	6	S	5	Valencia ...			
Thurso ...								Scilly ...			
Scarborough ...								London ...			*
Greencastle ...						*		Rochefort ...	30.25	41	41
Holyhead ...											3

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.

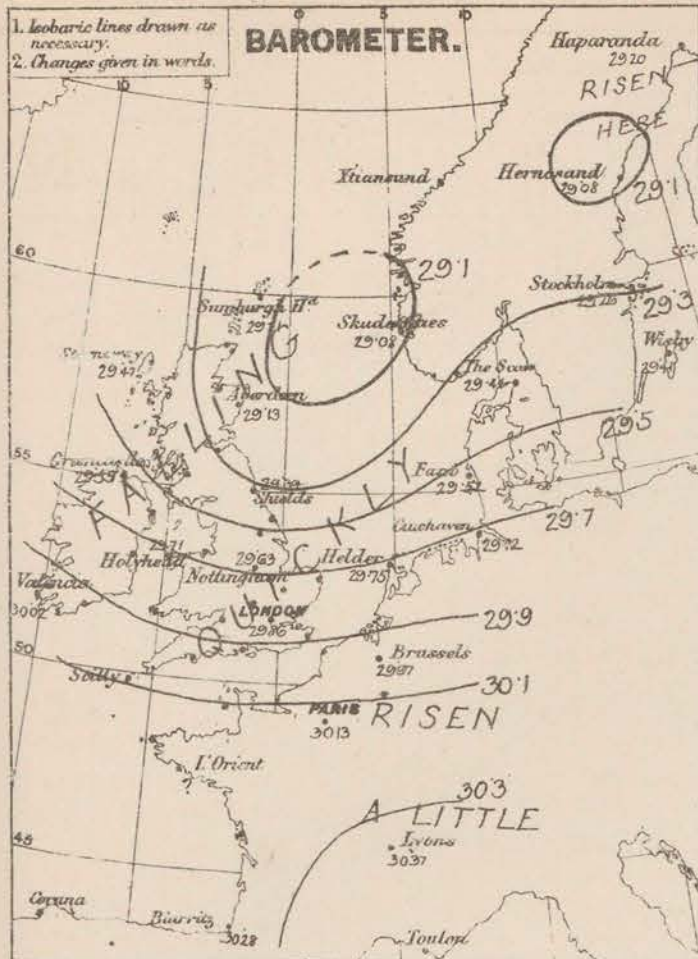
† The evening observations are taken at 6 p.m. in our Islands, at 8 p.m. (Christiania time) in Sweden, Norway, and Denmark, and at 7 p.m. (Paris time) in France.

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 24th Dec^r 1877.

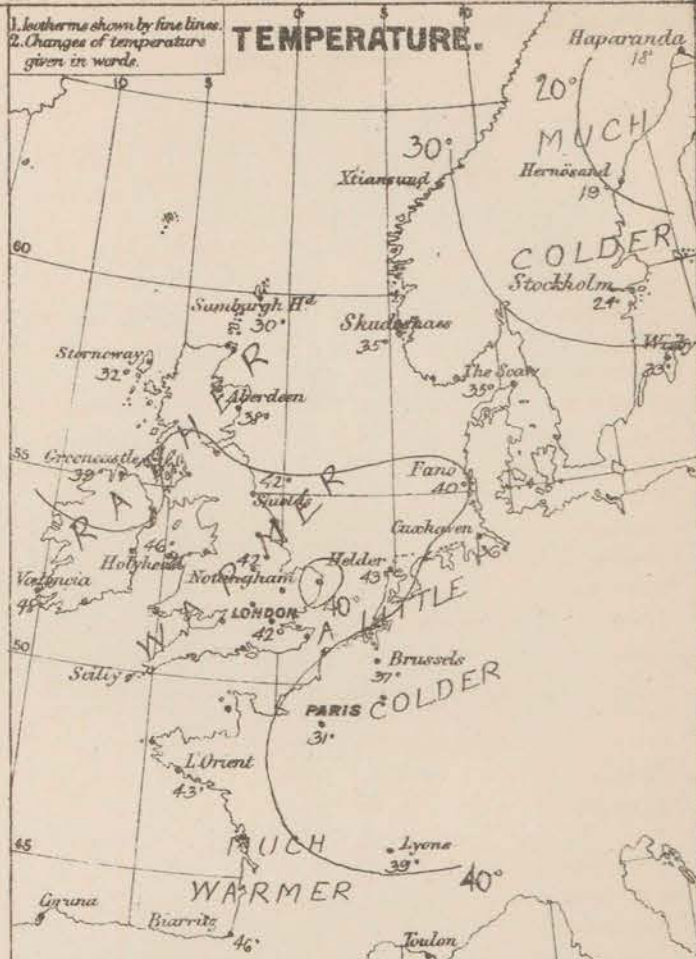
1. Isobaric lines drawn as necessary.
2. Changes given in words.

BAROMETER.



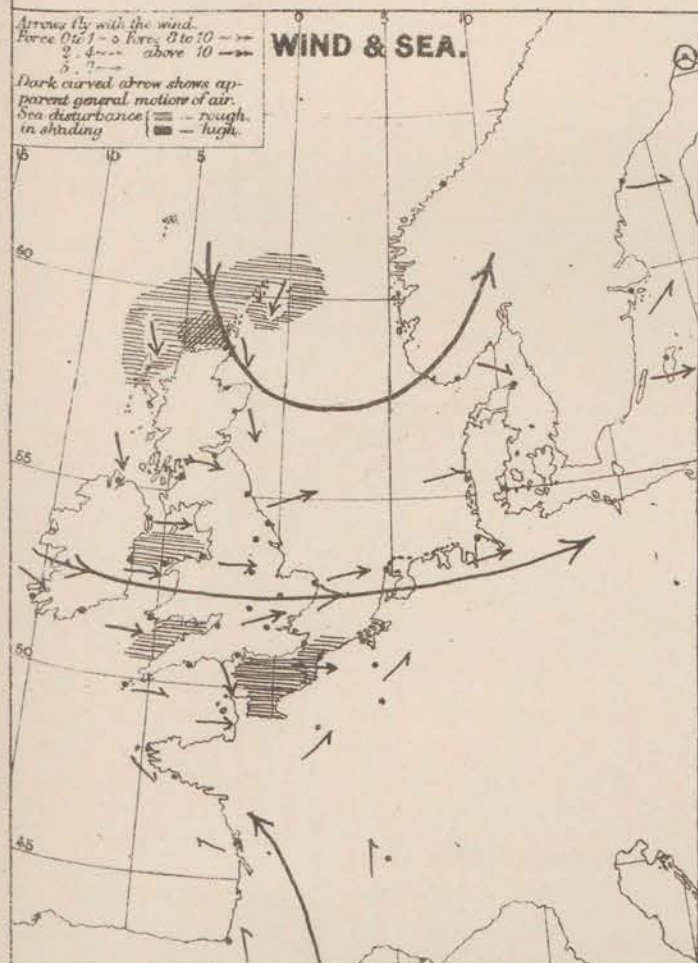
1. Isotherms shown by fine lines.
2. Changes of temperature given in words.

TEMPERATURE.



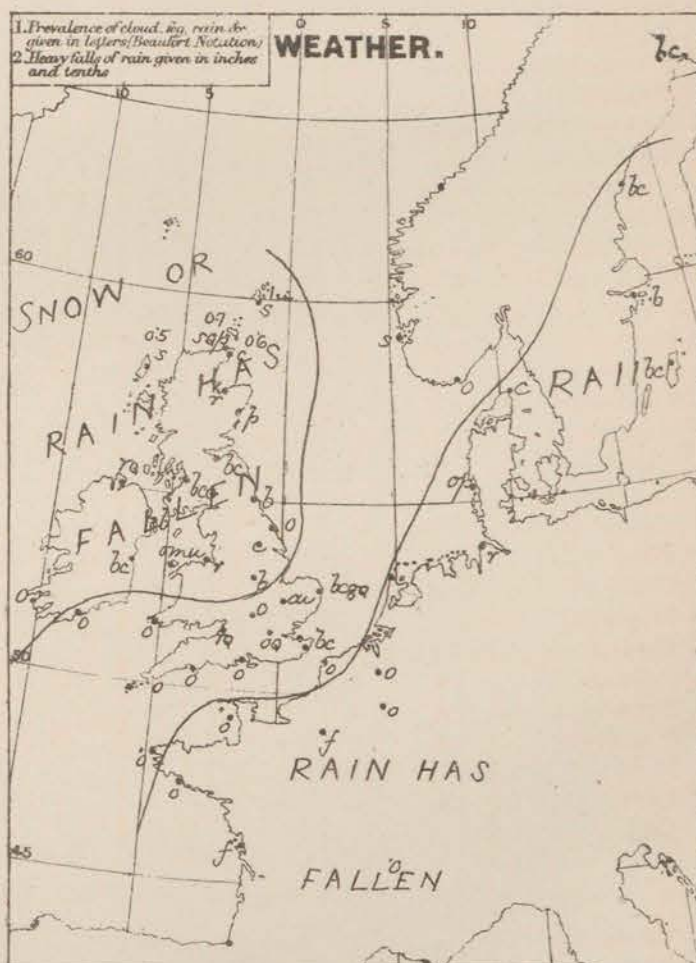
1. Arrows fly with the wind. Force 0 to 10, 11 to 20, 21 to 30, 31 to 40, 41 to 50, 51 to 60, 61 to 70, 71 to 80, 81 to 90, 91 to 100.
2. Dark curved arrow shows apparent general motion of air. Sea disturbance: rough, high.

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 overcast or very cloudy generally, with showers of rain and snow in the north of Scotland and Germany and the west of Norway; in many places the weather is squally. Very heavy snow storms occurred in Scotland yesterday, and rain fell at most of the western stations. Temperature has risen slightly over these Islands, and fallen on the Continent; it is very low in the Gulf of Bothnia, and rather so in the Heligoland and Skagerrak, but elsewhere is somewhat above the average for the time of year; it varies from 32° to 45° over Scotland, from 39° to 48° over Ireland and England. Wind is N^{or} or NW^{or} in Scotland, W^{or} over Ireland and England, and SW^{or} in Denmark; it is fresh or strong in force generally, and blows a gale on the Scotch coasts. Sea is rough in the north and west, slight in the east.

Barometrical Indications. Pressure has fallen in all parts of Western Europe, very rapidly in Scotland, but a recovery has since commenced in that country. A rather deep depression lies between the coasts of Scotland and Norway, while a second centre of low readings lies over Sweden.

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

R. H. SCOTT.
Secretary

DAILY WEATHER REPORT DEC 25 1877.

STATIONS.	↑ YESTERDAY EVENING.						8 A.M. TO DAY.										PAST 24 HOURS.		
	Barometer at 320 F. and Sea Level.	Temp. in shade.	WIND.		Force (0 to 13).	Weather.	Barometer.		SHADE TEMP.			WIND.		Force (0 to 13).	Weather.	Sea (0 to 9).	SHADE TEMP.		Amount of Rainfall.
			Dirco.	Force.			Reading at 320 F. and Sea Level.	Difference from 8 a.m. yesterday.	Dry.	Wet.	Difference from 8 a.m. yesterday.	Dirco.	Force.				Max.	Min.	
Haparanda ...	29.24	23	SE	2	5		29.40	+ .20	21	24	+ 3	NE	2	5			25	18	—
Hernösand ...	29.21	?	2	0	3		29.20	+ .12	?	?	?	N	2	5					—
Stockholm ...	29.25	28	S	2	3		29.02	+ .34	34	34	+ 10	SSE	6	3					0.05
Wisby ...	29.34	31	SE	4	3		29.06	+ .35	33	31	+	SSE	6	5					0.08
Christiansund ...	29.02	20	ESE	3	30		28.99	— .03	30	30	—	ESE	2	0	4		35	25	—
Skudesnaes ...	28.79	32	NNW	8	0		29.04	— .04	34	30	— 4	NNW	9	0	4		36	22	—
Oxö (Årland) ...	28.67	38	SE	5	7		28.81	— .14	34	30	— 4	NNW	6	0	3		41	28	0.23
Skagen (The Seaw.)	28.77	38	SW	7	0		28.69	— .08	36	35	+ 1	NNW	5	7	5		39	32	0.12
Faro ...	28.96	38	N	6	0		29.12	— .16	37	35	— 2	NNW	8	0			41	34	0.20
Cuxhaven ...	29.31	38	SW	8	0		29.29	— .02	36	36	—	NNW	7	5			7	34	0.12
Sumburgh Head	29.28	30	N	8	5		29.43	+ .15	34	23	— 11	N	5	0	5		31	21	0.01
Stornoway	29.69	29	NNW	5	6		29.63	+ .06	27	26	— 1	NNW	1	5p.	5		33	23	0.18
Thurso ...	29.50	34	NNW	7	0		29.54	+ .04	31	30	— 1	NNW	5	5p.	6		40	27	0.16
Wick ...	29.47	29	N	5	5		29.54	+ .07	27	26	— 1	NNW	2	30	2		34	24	0.21
Nairn ...	29.59	29	NNW	6	3		29.62	+ .03	25	24	— 1	NNW	1	30	2		37	24	0.02
Aberdeen ...	29.47	34	NNW	7	3		29.49	+ .02	26	26	—	NNW	2	0	4		39	26	0.09
Leith ...	29.63	33	NNW	3	3		29.66	+ .03	28	27	— 1	N	1	30			41	26	0.05
Shields ...	29.60	32	NNW	5	3		29.67	+ .07	27	26	— 1	NNW	3	30	5		42	25	—
Scarborough	29.57	33	NNW	5	3		29.68	+ .11	28	—	—	NNW	2	0	4		43	28	0.05
York ...	29.65	33	N	3	3		29.72	+ .07	28	28	—	NNW	1	30			45	27	0.07
Nottingham ...	29.72	36	NNW	7	3		29.76	+ .04	31	31	—	SW	1	0			45	27	0.01
Ardrossan ...	29.70	35	NNW	6	3		29.69	+ .01	29	—	—	N	1	30	0		46	29	0.03
Greencastle ...	29.78	36	N	3	3		29.75	+ .03	32	31	— 1	N	1	30			41	28	0.04
Donaghadee ...	29.79	35	NNW	5	30		29.75	+ .04	31	30	— 1	NNW	2	30	1		40	30	0.01
Kingstown ...	29.86	40	NNW	4	30		29.83	+ .03	36	34	— 2	N	4	30	2		45	34	—
Holyhead ...	29.81	41	NNW	7	30		29.78	+ .03	39	36	— 3	N	3	0	3		47	37	0.04
Liverpool (Bilston)	29.74	35	NNW	6	0		29.75	+ .01	33	33	—	NNW	1	0	1		44	33	0.05
Valencia ...	30.01	44	NNW	4	0		29.89	+ .13	41	39	— 2	NNW	2	0	2		49	40	0.08
Roche's Point...	29.98	44	NNW	4	0		29.88	+ .10	39	37	— 2	NNW	3	30	3		48	39	0.08
Pembroke ...	29.89	44	NNW	2	3		29.85	+ .04	41	38	— 3	NNW	1	30	2		48	41	0.01
Portishead ...	29.86	42	N	5	0		29.83	+ .03	37	35	— 2	NNW	3	30	3		47	31	0.02
Scilly ...																			
Plymouth ...	29.91	40	SW	2	3		29.82	+ .09	35	34	— 1	Z	0	0			49	34	0.03
Hurst Castle ...	29.87	42	NNW	4	3		29.84	+ .03	37	35	— 2	NNW	2	30	2		48	39	—
Dover ...	29.69	40	NNW	5	30		29.87	+ .18	32	31	— 1	NNW	4	30	2		46	31	—
London ...	29.74	39	NNW	4	3		29.82	+ .08	28	27	— 1	NNW	1	30			46	28	—
Oxford ...							29.81	+ .07	29	28	— 1	N	1	30			45	28	0.01
Cambridge ...	29.67	36	NNW	3	3		29.78	+ .11	31	31	—	SW	1	0			45	30	—
Yarmouth ...	29.84	37	NNW	6	30		29.72	+ .12	28	28	—	NNW	3	30	4		43	28	0.09
The Helder ...							29.82	+ .12	39	36	— 3	N	6	0					0.08
Cape Gris Nez	29.70	40	NNW	8	3		29.83	+ .13	37	34	— 3	NNW	5	30	5		48	36	—
Jersey ...	29.92	45	NNW	5	3		29.90	+ .02	41	38	— 3	NNW	3	30	4		49	39	0.09
Brest ...	30.02	50	NNW	4	0		29.95	+ .03	46	41	— 5	NNW	2	0	3		55	43	0.16
L'Orient ...	30.01	48	NNW	4	7		29.97	+ .04	43	41	— 2	NNW	3	30	4		48	39	0.16
Rochefort ...	30.06	46	N	5	0		29.97	+ .04	43	43	—	NE	3	0	3		54	34	0.03
Biarritz ...	30.24	34	S	4	0		30.11	+ .07	32	30	— 2	NNW	5	7	3		55	45	0.12
Corunna ...																			
Brussels ...							29.76	+ .21	32		— 5	N	4	6					0.08
Charleville ...							29.77	+ .21	36		— 5	N	1	0					
Paris ...	29.82	40	SW	5	0		29.89	+ .07	35	34	— 1	NNW	3	7					0.04
Lyons ...							29.92	+ .04	42		— 3	NNW	2	7					
Toulon ...	30.08	45	N	2	0		29.91	+ .17	45	41	— 4	NNW	5	0	4		48	39	—

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

	Bar.	Dry.	Wet.	Wind.	Woe.	Sea.		Bar.	Dry.	Wet.	Wind.	Woe.	Sea.		
Skudesnaes ...	28.72	33.	32	ENE	6	75	4	Valencia	30.00	47	42	ENE	5	SW	7
Thurso	29.41	32	32	NNW	8	50 p.	8	Scilly							
Scarborough ...	29.44	39	36	NNW	5	6	5	London	29.64	46	42	NNW	3	0	
Greencastle ...	29.75	39	35	NN	3	3 p.	4	Rochefort ...	30.11	46	43	NNW	4	0	3
Holyhead	29.76	43	43	NNW	9	6	7								

Pressure is increasing quickly in the NW and N, but still decreases in the E. and SE. The wind has veered to the NW generally and increased to a hard gale at Holyhead.

EXPLANATION OF COLUMNS.

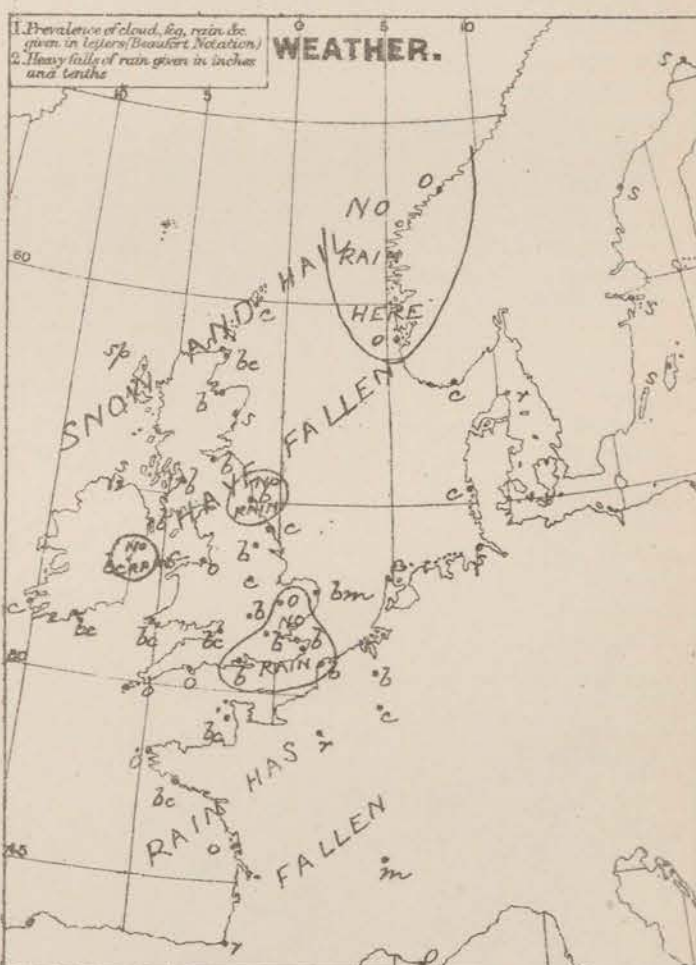
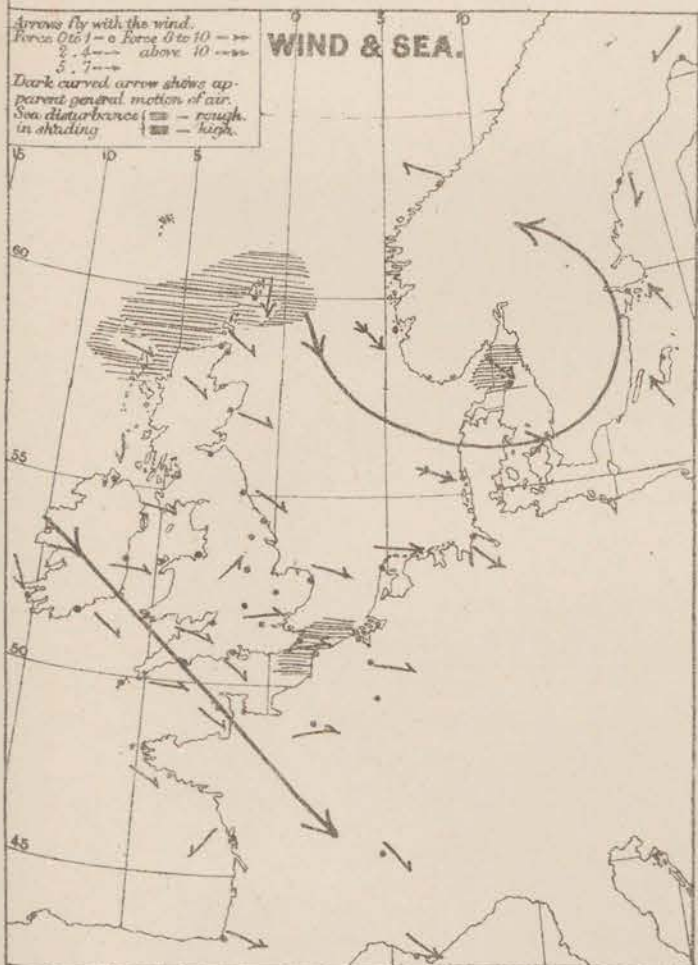
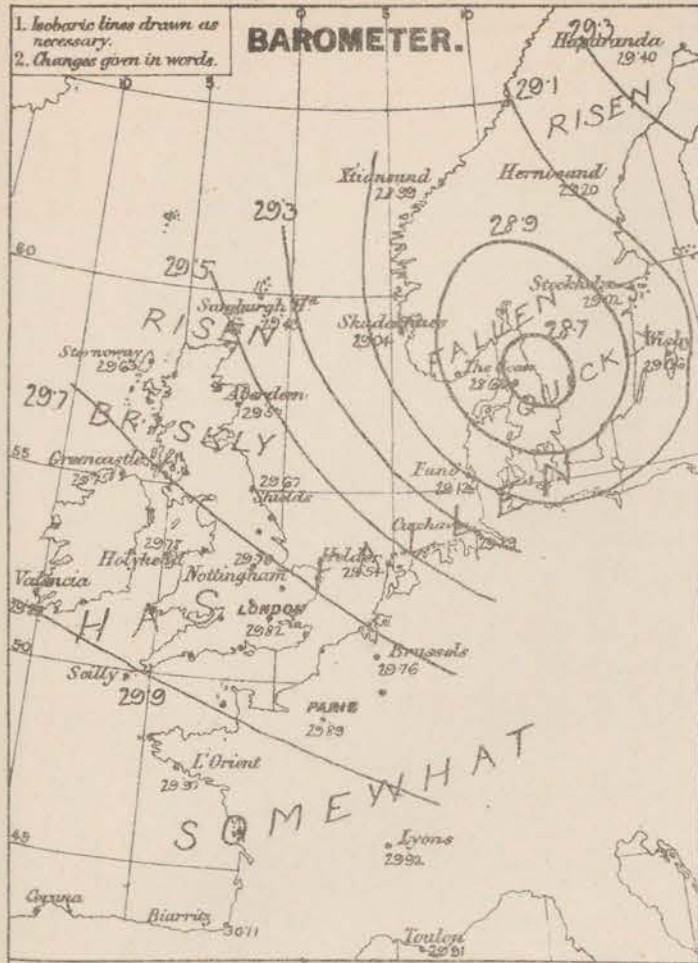
WEATHER.—Beaufort scale is, b. blue sky; c. detached clouds; d. drizzling rain; f. fog; g. dark, gloomy; h. hail; l. lightning; m. misty (hazy); o. overcast; p. passing showers; q. squally; r. rain; s. snow; t. thunder; u. ugly, threatening; v. visibility, unusual transparency; w. dew.

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

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

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

WEATHER CHARTS *for 8 a.m. on Tuesday 25TH DEC^R 1877.*



REMARKS. Weather is clear over the greater part of these islands but very cloudy at the Continental stations, snow is falling in Sweden and many parts of Scotland. Showers of hail and snow fell in all the more northern parts of the kingdom, and rain in the southern districts yesterday. Temperature has fallen in all parts of our islands - several degrees in the east and north, but has risen a few degrees in France, while in Scandinavia and Denmark it remains almost unchanged. The readings now vary from 25° to 31° in Holland, from 31° to 41° in Ireland, and from 27° to 41° in England; they are about ten degrees below the average for the time of year in the east and north. Wind is NW over the British Isles, the greater part of France and the North Sea, but draws into SE over the Baltic, it is light in force generally, but blows a gale on the eastern shores of the North Sea. Sea is rough off the north of Scotland and in the Skager Rack, slight or smooth elsewhere.

Barometrical Indications. The depression which lay yesterday morning between the Swedish and Norwegian coasts has travelled slowly E and now has its centre over the Skager Rack. The barometre is rising in all the more northern parts of the kingdom, but is falling in Sweden, and also in the south of Ireland.

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

R. H. SCOTT.
Secretary

DAILY WEATHER REPORT DEC^R 26TH 1877.

STATIONS.	† YESTERDAY EVENING.					8 A.M. TO DAY.										PAST 24 HOURS.		
	Barometer at 320 F. and Sea Level.	Temp. in shade.	WIND.		Weather.	BAROMETER.		SHADE TEMP.			WIND.		Weather.	Sea. (0 to 9.)	SHADE TEMP.		Amount of Rainfall.	
			Dir.	Force. (0 to 12).		Reading at 320 F. and Sea Level.	Difference from 8 a.m. yesterday.	Dry.	Wet.	Difference from 8 a.m. yesterday.	Dir.	Force. (0 to 12).			Max.	Min.		
Haparanda ...	29.57	22	S	4	o	29.58	+ .18	16	?	-	5	E	2	o	*	30	16	0.24
Hernösand ...	29.26	30	S	2	o	29.21	+ .01	27	26	?		SE	6	o	*	*	*	0.08
Stockholm ...	28.98	33	SE	+	5	28.97	- .05	31	30	-	3	S	4	bc	*	*	*	0.20
Wisby ...	28.97	33	N	8	o	29.08	+ .02	34	32	+	1	WSW	6	o	*	*	*	0.26
Christiansund ...	29.08	30	S	2	o	29.04	+ .05	30	30	o		SE	2	c	4	30	28	0.20
Skudesnaes ...	29.10	34	NN	8	bc	29.10	+ .06	31	28	-	3	NN	2	c	2	?	?	-
Oxö (Klansand) ...	28.97	34	NN	4	bc	29.06	+ .25	31	27	-	3	NN	4	bc	2	36	28	-
Skagen (The Sæw) ...	28.91	35	NN	4	o	29.06	+ .37	34	32	-	2	NN	3	o	2	37	30	0.04
Fanø ...	29.25	36	N	6	c	29.23	+ .11	33	32	-	4	N	2	bc	*	37	30	-
Cuxhaven ...	29.39	2	NN	8	c	29.35	+ .06	32	32	-	4	SW	3	o	*	?	?	-
Sumburgh Head ...	29.33	26	NNE	3	c	29.02	- .41	34	32	+	10	ESE	5	o	5	34	19	-
Stornoway ...	29.34	32	WSW	2	bc	28.75	- .58	35	34	+	8	NN	7	sgp	6	35	25	0.17
Thurso ...	29.08	24	SW	1	bc	28.85	- .69	33	32	+	2	SW	3	bc	4	40	20	0.11
Wick ...	29.37	24	N	2	bc	28.88	- .66	36	35	+	9	SSE	4	c	4	36	23	0.03
Nairn ...	29.40	23	Z	0	bc	28.90	- .72	33	31	+	8	N	1	c	1	33	22	-
Aberdeen ...	29.43	24	N	1	bc	28.98	- .59	33	32	+	7	SW	1	bc	3	34	19	0.28
Leith ...	29.48	31	N	2	bc	29.03	- .63	33	32	+	5	N	3	c	*	34	24	-
Shields ...	29.50	30	NN	3	om	29.10	- .57	34	33	+	7	N	2	c	5	34	26	0.03
Scarborough ...	29.52	32	NN	2	o	29.14	- .54	31	?	+	3	N	1	o	3	33	26	0.09
York ...	29.60	32	NN	1	o	29.18	- .55	34	33	+	6	NN	1	bc	*	36	27	0.03
Nottingham ...	29.55	32	Z	0	c	29.26	- .50	32	32	+	1	SW	2	bc	*	33	24	0.08
Ardrossan ...	29.45	32	NE	1	c	29.10	- .59	36	35	+	7	NN	9	sgp	5	41	28	0.42
Greencastle ...	29.48	34	SW	2	c	29.23	- .52	35	32	+	3	NN	4	o	*	38	30	0.65
Donaghadee ...	29.48	32	WSW	3	bc	29.26	- .49	34	32	+	3	N	4	bc	2	34	31	0.08
Kingstown ...	29.54	38	N	1	c	29.39	- .42	36	34	o		NN	5	bc	4	40	35	0.03
Holyhead ...	29.53	39	N	3	c	29.32	- .46	38	37	-	1	NN	7	chg	5	42	37	0.07
Liverpool (Bidston) ...	29.52	33	ESE	1	o	29.23	- .52	38	35	+	5	N	7	o	3	39	30	0.40
Valencia ...	29.54	42	N	2	o	29.64	- .25	44	41	+	3	NN	5	chg	5	47	39	0.42
Roche's Point... ..	29.61	40	WSW	4	+	29.50	- .32	40	38	+	1	NN	4	bc	3	45	38	0.24
Pembroke ...	29.58	41	WSW	4	c	29.47	- .38	42	39	+	1	NN	5	c	3	44	39	0.01
Portishead ...	29.61	40	SW	3	c	29.38	- .45	37	36	o		NN	7	bc	6	46	39	0.10
Scilly ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Plymouth ...	29.63	40	Z	0	o	29.49	- .39	38	37	+	3	NN	3	bc	*	41	34	0.35
Hurst Castle ...	29.60	44	N	1	c	29.37	- .47	39	38	+	2	N	3	bc	3	42	32	-
Dover ...	29.67	35	N	3	bc	29.33	- .48	33	32	+	1	WSW	3	bc	2	39	32	0.08
London ...	29.62	37	WSW	1	o	29.34	- .48	32	32	+	4	WSW	3	o	*	41	28	0.01
Oxford ...	*	*	*	*	*	29.35	- .46	32	31	+	3	N	2	bc	*	38	27	0.02
Cambridge ...	29.58	23	SW	1	o	29.27	- .57	31	31	o		SW	1	o	*	35	27	0.03
Yarmouth ...	29.61	32	N	3	bc	29.29	- .43	31	31	+	3	N	2	m	3	33	27	-
The Helder ...	*	*	*	*	*	29.30	- .24	32	32	-	7	S	1	S	*	*	*	0.20
Cape Gris Nez ...	29.87	39	N	3	bc	29.37	- .46	37	37	o		NN	3	o	3	41	34	0.39
Jersey ...	29.74	44	NN	2	+	29.49	- .41	43	42	+	2	NN	5	chg	5	47	39	0.48
Brest ...	29.74	48	NN	4	+	29.63	- .32	48	45	+	2	NN	4	m	4	48	43	0.24
L'Orient ...	29.78	45	NN	3	o	29.65	- .32	45	45	+	2	NN	5	c	4	50	39	0.08
Rochefort ...	29.82	50	SW	3	o	29.67	- .30	50	46	+	7	NN	7	bc	4	?	36	0.20
Biarritz ...	29.97	?	WSW	4	o	29.90	- .21	52	48	o		NN	6	+	6	55	45	0.67
Corunna ...	*	*	*	*	*	...	...	...	...	...	...	...	...	...	...	*	*	*
Brussels ...	*	*	*	*	*	29.28	- .48	34	*	+	2	SSW	4	o	*	*	*	0.07
Charleville ...	*	*	*	*	*	29.30	- .47	31	*	+	5	S	3	S	*	*	*	*
Paris ...	29.75	33	N	1	c	29.38	- .57	32	?	-	3	NN	2	o	*	*	*	0.24
Lyons ...	*	*	*	*	*	29.58	- .34	37	*	-	5	SE	4	S	*	*	*	*
Toulon ...	29.74	43	NN	5	bc	29.69	- .22	39	32	-	6	NN	5	bc	4	32	39	-

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

Bar.	Dry.	Wet.	Wind.	Wes.	Sea.	Bar.	Dry.	Wet.	Wind.	Wes.	Sea.
Skudesnaes ...	29.08	35	33	NN	9	o	5	Valencia .....	...	...	...
Thurso	Scilly .....	...	...	...
Scarborough	London .....	...	...	...
Greencastle	Rochefort ...	29.85	50	46
Holyhead

EXPLANATION OF COLUMNS.

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

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

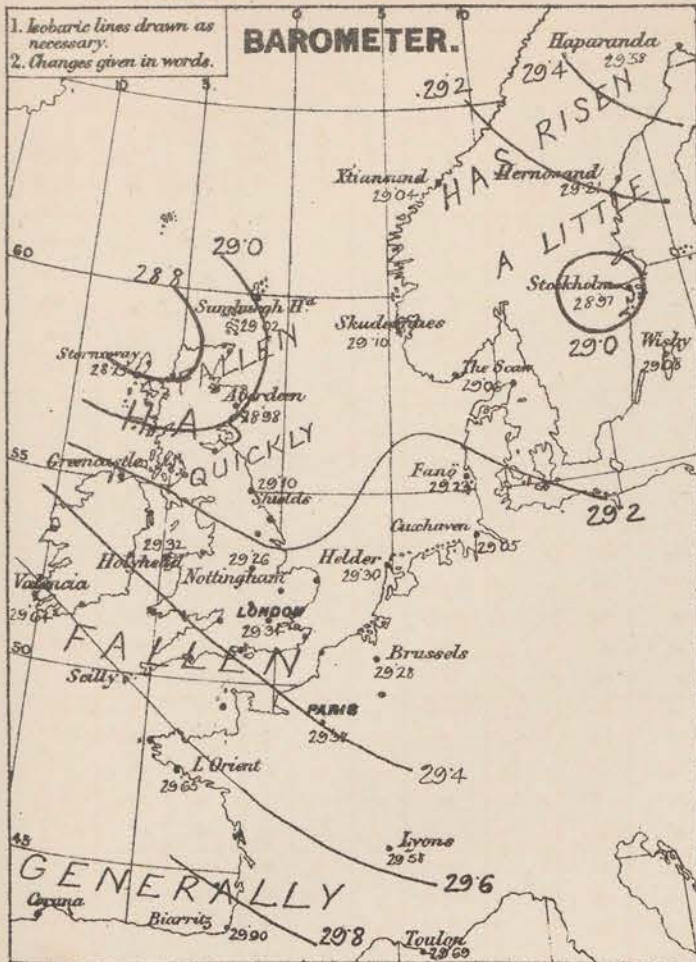
† The evening observations are taken at 6 p.m. in our Islands, at 8 p.m. (Christiania time) in Sweden, Norway, and Denmark, and at 7 p.m. (Paris time) in France.

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

WEATHER CHARTS for 8 a.m. on Wednesday 26th DEC^r 1877.

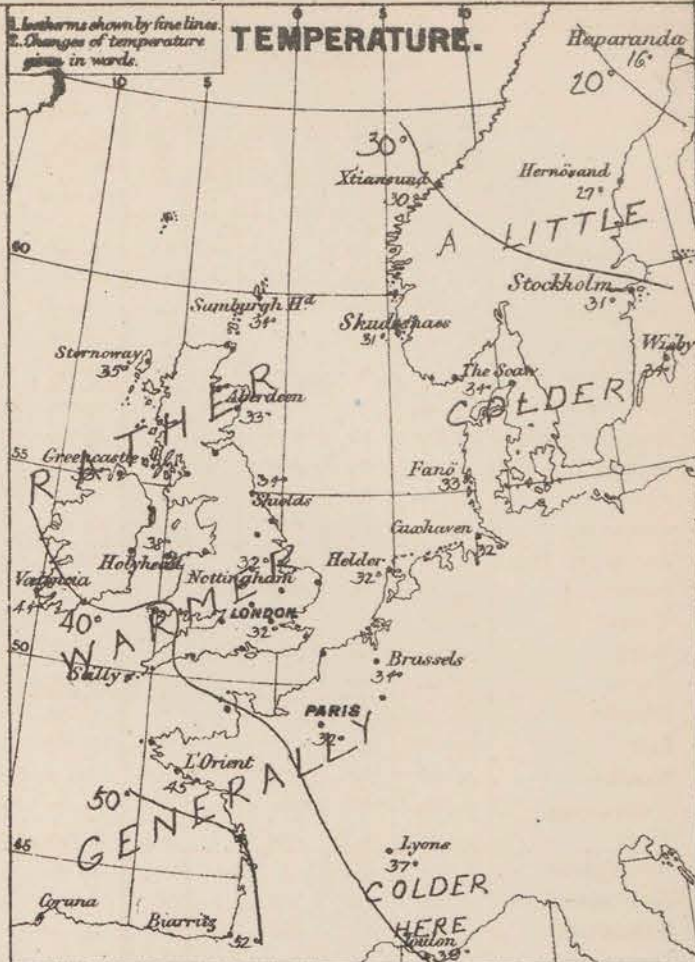
1. Isobaric lines drawn as necessary.
2. Changes given in words.

BAROMETER.



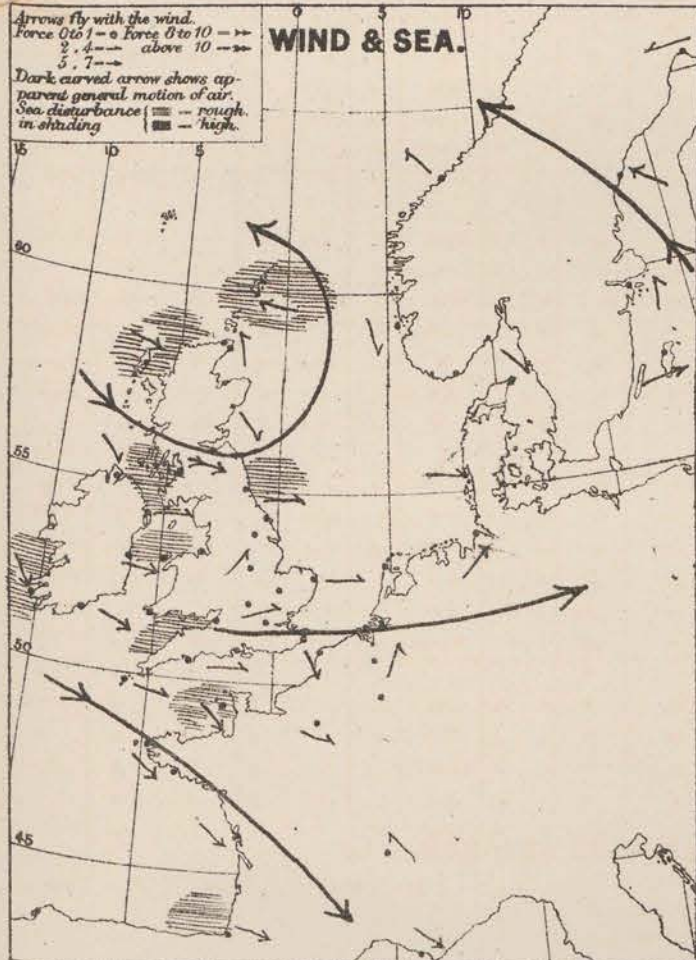
1. Isobars shown by fine lines.
2. Changes of temperature given in words.

TEMPERATURE.



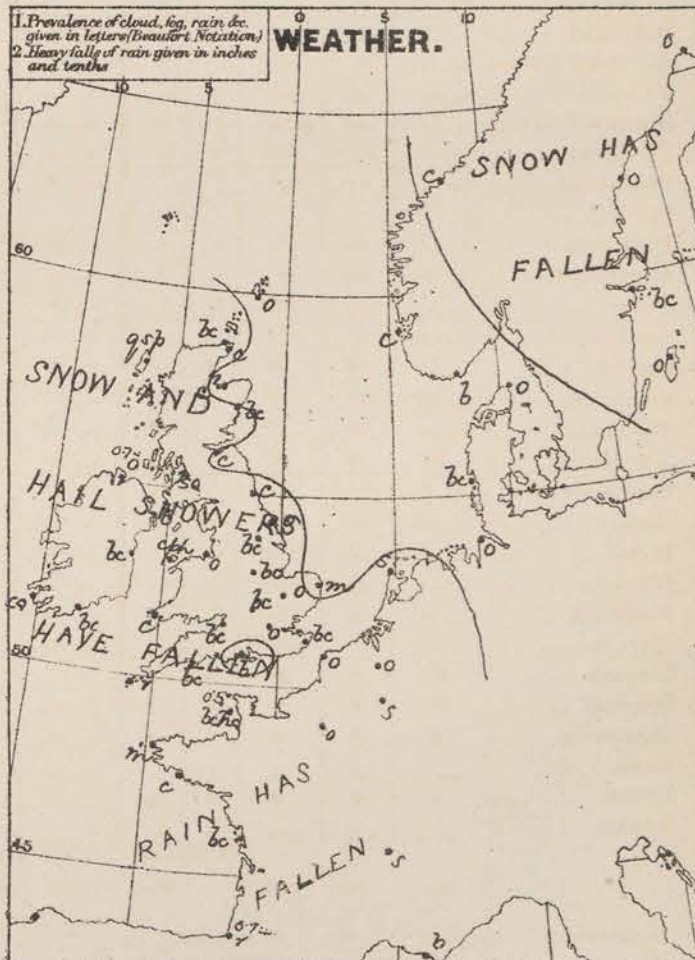
1. Arrows fly with the wind. Force 0 to 10 — above 10 —
2. Dark curved arrow shows apparent general motion of air.
3. Sea disturbance — rough in shading — high.

WIND & SEA.



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

WEATHER.



REMARKS. Weather is cloudy or drizzle in all parts of Western Europe; at Andromeda, the Helles and Chadeville snow is falling, and at Valentia, Holyhead and Jersey hail showers. Snow and hail have fallen generally. Temperature has decreased slightly over Scandinavia and in the south east of France, but in all other places a rise of a few degrees has occurred; it varies from 33° to 36° over Holland, from 34° to 44° over Ireland, and from 31° to 43° over England. During last night the thermometer fell to 19° in the north east of Holland, and to 27° over Central England. Wind is NW over our western coasts and in the west of Norway, W over our east coast and E in the north of Scandinavia; it is strong in the W. and blows a hard gale on the Clyde. Sea is rough in the west and north, slight in the east.

Barometrical Indications. The mercury has again fallen suddenly and quickly over the whole of Western Europe, and a fresh depression has advanced over Holland, while the centre of that which crossed on Monday is shown near Stockholm. A recovery in pressure is now reported from all our western stations.

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 27 1877.

STATIONS.	† YESTERDAY EVENING.						8 A.M. TO DAY.										PAST 24 HOURS.		
	Barometer at 32° F. and Sea Level.	Temp. in shade.	WIND.		Weather.	Barometer. Reading at 32° F. and Sea Level.	Difference from 8 a.m. yesterday.	SHADE TEMP.			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 ...	29.56	15	N	2	0	29.60	+0.2	31	30	+1.5	SE	2	0	*	?	15	-		
Hernöand ...	29.22	30	NE	6	0	29.40	+1.9	28	26	+1	S	4	0	*	*	*	0.51		
Stockholm ...	29.24	32	SE	4	0	29.42	+4.5	30	29	-1	SE	2	0	*	*	*	-		
Wisby ...	29.35	32	SSW	6	6	29.44	+3.6	24	23	-10	SE	4	0	*	*	*	0.08		
Christiansund ...	29.18	30	SE	4	6	29.23	+2.4	25	23	-5	SE	4	6	3	30	21	-		
Skudesnaes ...	29.12	31	E NE	2	6	29.27	+1.7	30	28	-1	E	2	6	2	32	30	-		
Oxö (Ålön) ...	29.13	28	NNW	6	6	29.27	+2.1	28	26	-3	NNW	4	6	3	32	27	0.28		
Skagen (The Scaw) ...	29.21	28	WSW	3	6	29.28	+2.2	32	31	-2	SE	3	0	2	36	21	0.04		
Fanö ...	29.13	30	SSE	4	6	29.20	-0.3	32	31	-1	NE	4	0	*	34	25	0.16		
Cuxhaven ...	29.23	30	SSE	2	0	29.16	-1.9	34	34	+2	SW	2	0	*	?	28	-		
Sumburgh Head ...	29.05	34	E	6	6	29.22	+2.0	34	31	0	NE	1	6	2	36	30	-		
Stornoway ...	29.00	33	NW	10	0	29.14	+3.9	35	34	0	NNW	8	0	7	35	30	0.30		
Thurso ...	28.88	34	SSW	1	0	29.19	+3.4	31	30	-2	SSW	1	0	2	35	29	0.12		
Wick ...	28.93	35	W	2	6	29.21	+3.8	34	31	-2	NNW	1	6	2	36	30	0.28		
Nairn ...	29.03	34	W	3	6	29.26	+3.6	32	31	-1	W	1	6	1	34	30	0.03		
Aberdeen ...	29.00	33	NW	4	6	29.21	+2.3	33	32	0	NNW	3	6	2	35	30	-		
Leith ...	29.17	32	WNW	4	6	29.35	+3.2	31	31	-2	WNW	3	6	*	37	29	-		
Shields ...	29.19	32	NW	3	6	29.38	+2.8	28	28	-6	WNW	3	6	3	35	27	-		
Scarborough ...	29.21	31	W	3	6	29.40	+2.6	30	?	-1	NNW	2	0	3	35	28	-		
York ...	29.26	31	NNW	4	6	29.45	+2.7	28	28	-6	W	2	6	*	37	26	0.08		
Nottingham ...	29.36	32	NNW	4	6	29.55	+2.9	27	27	-5	Z	0	0	*	37	27	0.26		
Ardrossan ...	29.24	37	NNW	4	6	29.42	+3.2	34	31	-2	NW	4	6	3	41	33	0.05		
Greencastle ...	29.36	31	NW	3	6	29.50	+2.7	32	31	-3	NW	3	6	*	37	29	0.05		
Donaghadee ...	29.40	?	WNW	3	6	29.53	+2.7	31	31	-3	WNW	3	0	2	34	29	0.06		
Kingstown ...	29.48	37	NNW	6	6	29.61	+2.2	35	33	-1	NNW	5	6	4	38	33	0.01		
Holyhead ...	29.40	37	W	7	6	29.56	+2.4	38	35	0	NNW	6	0	4	40	34	0.08		
Liverpool (Bristol) ...	29.34	36	W	7	6	29.50	+2.7	37	34	-1	NNW	6	0	4	39	34	0.02		
Valencia ...	29.69	41	NW	4	6	29.73	+0.9	39	38	-5	Z	0	0	1	46	38	0.06		
Roche's Point ...	29.65	40	NNW	4	6	29.72	+1.6	38	36	-2	NNW	3	0	3	44	36	-		
Pembroke ...	29.55	40	WNW	4	0	29.67	+2.0	39	36	-3	NW	3	6	3	43	39	-		
Portishead ...	29.49	37	NW	6	0	29.61	+2.3	36	33	-1	W	4	0	4	43	33	-		
Scilly ...																			
Plymouth ...	29.59	40	NW	2	0	29.68	+1.9	37	36	-1	Z	0	0	*	45	36	0.02		
Hurst Castle ...	29.49	41	NNW	4	6	29.63	+2.6	39	35	0	NNW	4	6	4	42	37	-		
Dover ...	29.42	36	NNW	3	6	29.57	+2.4	32	30	-1	WSW	2	6	2	39	31	-		
London ...	29.43	39	NNW	3	6	29.59	+2.5	30	28	-2	W	1	6	*	40	30	-		
Oxford ...		*	*	*	*	29.58	+2.3	32	31	0	W	1	6	*	39	30	-		
Cambridge ...	29.36	36	SW	1	0	29.56	+2.9	30	29	-1	SW	1	0	*	34	29	-		
Yarmouth ...	29.25	33	NNW	6	0	29.46	+1.7	30	30	-1	W	4	0	3	35	29	-		
The Helder ...		*	*	*	*	29.29	+0.1	39	36	+7	W	5	0	*	*	*	0.20		
Cape Gris Nez ...	29.45	39	NNW	7	6	?	?	36	36	-1	NW	5	6	5	41	36	-		
Jersey ...	29.64	44	NW	7	6	29.72	+2.3	42	40	-1	NW	3	0	4	46	40	0.22		
Brest ...	29.76	48	NW	5	6	29.71	+0.8	48	46	0	W	2	0	4	50	43	0.24		
L'Orient ...	29.76	46	NW	5	6	29.75	+1.0	46	45	+1	NW	2	0	3	50	43	0.28		
Rochefort ...	29.82	50	NW	5	0	29.82	+1.5	48	48	-2	W	2	0	3	50	39	0.20		
Biarritz ...	30.00	55	W	6	0	30.02	+1.2	55	54	+3	WSW	6	0	5	59	48	0.55		
Corunna ...		*	*	*	*									*	*	*	*		
Brussels ...		*	*	*	*	29.52	+2.4	32	*	-2	NNW	6	6	*	*	*	0.12		
Charleville ...		*	*	*	*	29.55	+2.5	31	*	0	W	1	0	*	*	*	*		
Paris ...	29.56	39	W	3	6	29.68	+3.0	38	36	+6	SW	3	0	*	*	*	0.04		
Lyons ...		*	*	*	*	29.88	+3.0	45	*	+8	S	2	0	*	*	*	*		
Toulon ...	29.70	45	NW	6	6	29.82	+1.3	43	37	+4	NNW	6	6	6	52	39	-		

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

Bar.	Dry.	Wet.	Wind.	Wes.	Sea.	Bar.	Dry.	Wet.	Wind.	Sea.
Skudesnaes ...						Valencia ...	29.66	45	41	W 4 b c p 5
Thurso ...	28.81	31	31	SSW	2	Scilly ...				
Scarborough ...	29.15	35	34	NNW	2	London ...	29.38	39	39	W 3 b c 3
Greencastle ...	29.28	33	31	W	3	Rochefort ...	29.74	50	48	W 3 b c 3
Holyhead ...	29.38	39	36	W	7					

The mercury is still falling slightly at Thurso but is rising slowly elsewhere; wind is moderate from NW generally but is blowing strongly from W. at Holyhead.

EXPLANATION OF COLUMNS.

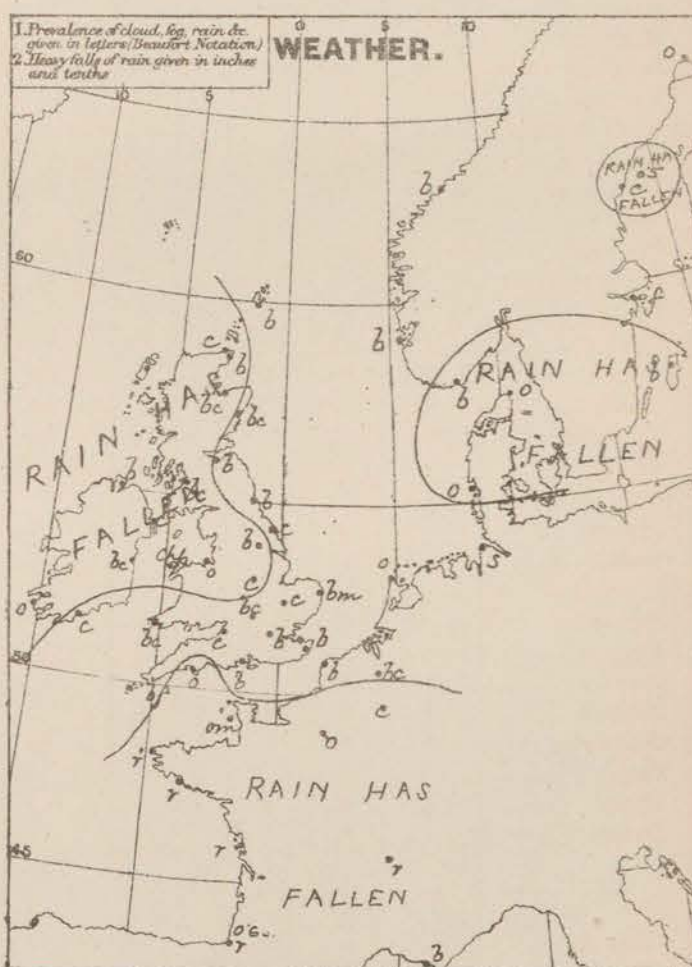
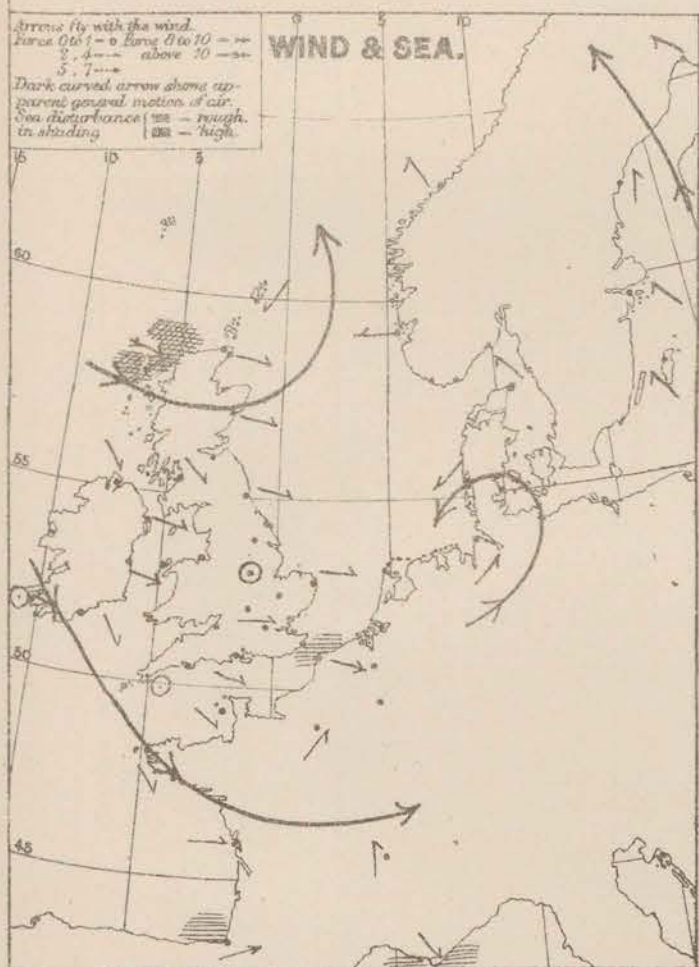
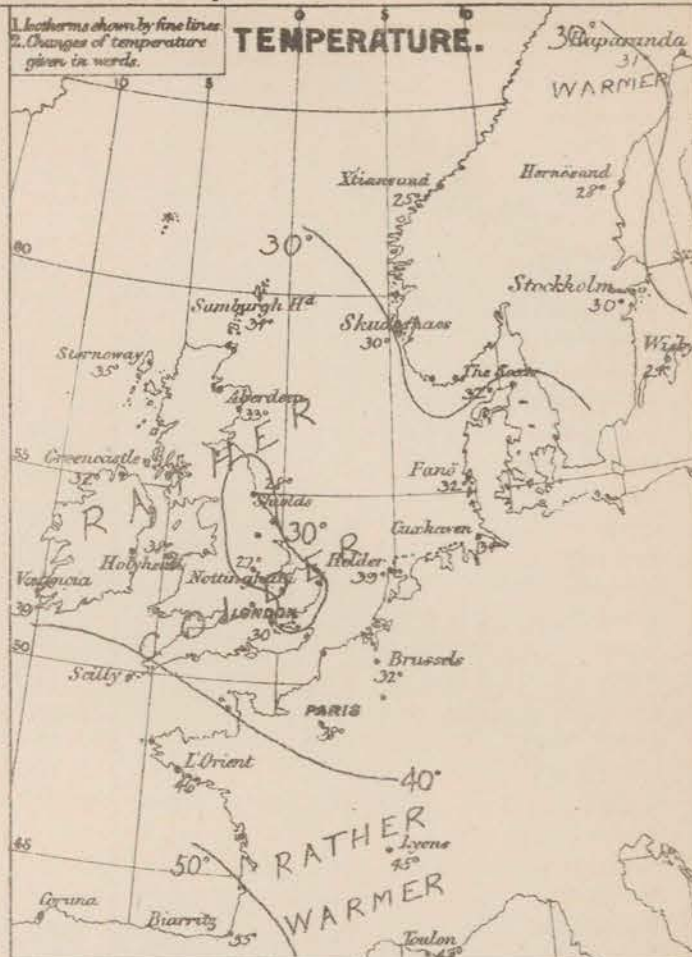
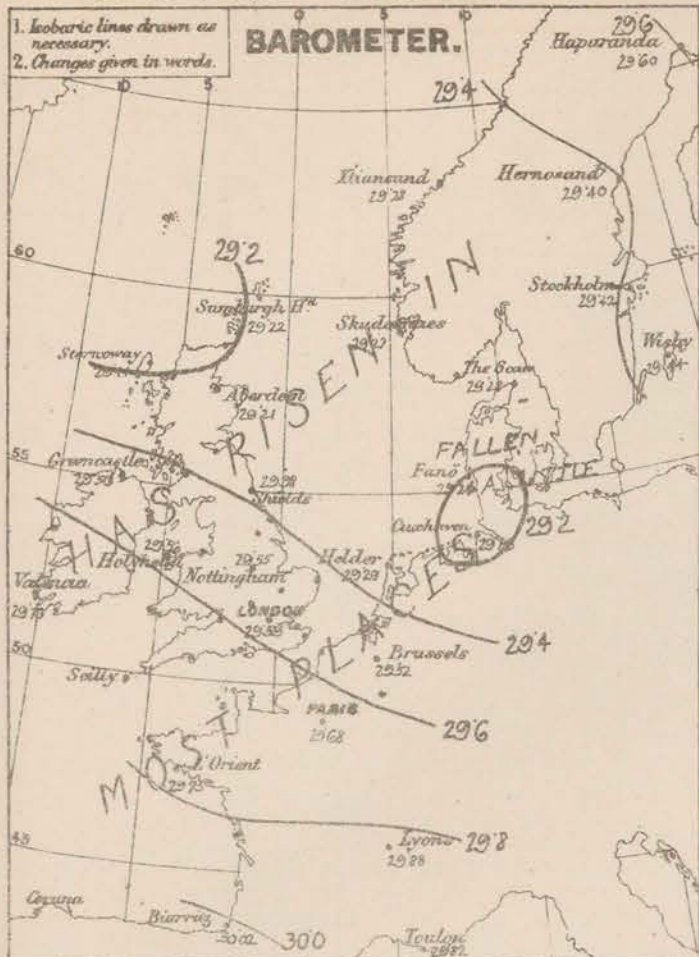
WEATHER.—Beaufort scale is, b. blue sky; c. detached clouds; d. drizzling rain; f. fog; g. dark, gloomy; h. hail; l. lightning; m. misty (hazy); o. overcast; p. passing showers; q. equally; r. rain; s. snow; t. thunder; u. ugly, threatening; v. visibility, unusual transparency; w. dew.

* 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 27th DEC^r 1877.



REMARKS. Weather is fine over nearly the whole of these Islands as well as in Norway, but at our south western stations the sky is cloudy; over France rain is falling, at Stornoway and Cuxhaven snow, and at Holyhead hail. Snow shows fell yesterday over central England and in the north of Scotland. Temperature has fallen over these Islands and Norway and Denmark, but has risen at most of the French stations; it is rather low over central and eastern England, and this morning fell to 26° at York, to 27° at Shields and Nottingham and to 30° in London; on the grass in London the thermometer fell to 21°. Temperature varies from 31° to 35° over Scotland, from 32° to 39° over Ireland, and from 27° to 42° over England. Wind is NW to W generally, and is light or moderate in force except in the Hebrides and North Wales. Sea is high in the Minch, moderate to smooth on our other coasts.

Barometrical Indications. Pressure has decreased somewhat at Fano and Cuxhaven, increased in all other places. It is highest in the south west of France, while two areas of low pressure are shown, one to the NW of Scotland, the other over North Germany.

DAILY WEATHER REPORT

DEC^r 28th 1877.

STATIONS.	† YESTERDAY EVENING.					8 A.M. TO DAY.										PAST 24 HOURS.		
	Barometer at 32° F. and Sea Level.	Temp. in shade.	WIND.		Weather.	BAROMETER.		SHADE TEMP.			WIND.		Weather.	Sea. (0 to 9.)	SHADE TEMP.			
			Dir.	Force. (0 to 12).		Reading at 32° F. and Sea Level.	Difference from 8 a.m. yesterday.	Dry.	Wet.	Difference from 8 a.m. yesterday.	Dir.	Force. (0 to 12).			Max.	Min.	Amount of Rainfall.	
Haparanda ...	29.89	23	S	2	b	29.93	+33	23	22	- 8	NE	2	b	*	32	21	0.08	
Hernösand ...	29.71	16	Z	0	o	29.71	+31	24	26	- 1	N	6	o	*	*	*	-	
Stockholm ...	29.86	28	E NE	2	o	29.36	-0.6	29	28	- 1	N	4	s	*	*	*	0.02	
Wisby ...	29.40	30	E	6	o	29.32	-1.2	31	30	+ 7	N NE	8	s	*	*	*	0.12	
Christiansund ...	29.86	25	SE	2	b	29.67	+3.9	28	27	+ 3	SE	1	b	3	?	21	-	
Skudesnaes ...	29.54	32	E SE	4	b	29.74	+4.7	32	31	+ 2	E SE	4	o	3	32	30	-	
Oxö (Tiansand) ...	29.47	30	NE	6	b	29.74	+4.7	29	26	+ 1	N	4	b	2	30	25	-	
Skagen (The Seaw) ...	29.42	32	E SE	3	o	29.70	+4.2	33	31	+ 1	NE	2	b	2	34	18	-	
Fanö ...	29.44	29	N	4	mw	29.75	+5.5	23	23	- 9	N	4	f	*	32	?	-	
Cuxhaven ...	29.34	28	W	3	o	29.73	+5.7	33	33	- 1	N NW	1	b	*	?	?	-	
Sumburgh Head ...	29.46	33	N	2	b	29.77	+5.5	30	29	- 4	N	1	b	1	36	26	-	
Stornoway ...	29.54	36	NNW	6	q b	29.80	+6.6	31	30	- 4	W	1	c	4	36	28	0.27	
Thurso ...	29.49	17	Z	0	b	29.77	+5.8	30	30	- 1	SW	2	b	2	34	15	-	
Wick ...	29.46	30	Z	0	b	29.79	+5.8	30	29	- 4	W	1	b	1	33	20	-	
Nairn ...	29.35	34	W	1	c	29.83	+5.7	30	29	- 2	Z	0	b	1	35	30	-	
Aberdeen ...	29.49	28	Z	0	b	29.82	+6.1	26	25	- 7	W NW	1	b	1	35	25	-	
Leith ...	29.51	36	W	3	o	29.84	+5.2	31	30	- 4	W	1	b	*	34	29	-	
Shields ...	29.54	32	W NW	3	mtc	29.91	+5.3	30	29	+ 2	W	2	b	3	34	28	-	
Scarborough ...	29.53	33	W NW	2	b	29.91	+5.1	32	31	+ 2	W NW	2	c	2	36	30	-	
York ...	29.54	30	W	1	b	29.94	+4.9	30	29	+ 2	W	1	b	*	34	24	-	
Nottingham ...	29.70	28	W	1	b	29.99	+4.4	27	27	- 0	SW	1	b	*	35	26	0.01	
Ardrossan ...	29.55	39	W NW	8	b q	29.87	+4.5	30	28	- 4	E	1	b	1	41	30	0.05	
Greencastle ...	29.70	36	W	3	s	29.81	+3.1	24	32	+ 2	S	1	o	*	34	30	0.28	
Donaghadee ...	29.72	31	W NW	4	b	29.89	+3.6	31	30	- 0	W NW	2	c	1	34	30	0.15	
Kingstown ...	29.81	37	W NW	4	o	29.94	+3.3	37	33	+ 2	S	3	c	2	40	33	-	
Holyhead ...	29.76	39	W	6	c	29.94	+3.8	38	36	- 0	SW	1	b	1	40	37	-	
Liverpool (Bidston) ...	29.71	37	W NW	6	b	29.94	+4.4	37	35	- 0	W NW	2	o	1	39	35	-	
Valencia ...	29.91	39	Z	0	c	29.74	+0.1	51	51	+12	SE	7	oga	6	52	36	0.29	
Roche's Point... ..	29.85	39	W NW	3	b	29.85	+1.3	47	47	+ 9	S	6	rf	4	47	35	0.25	
Pembroke ...	29.84	40	W	3	b	29.98	+3.1	42	40	+ 3	S	1	b	2	42	38	-	
Portishead ...	29.81	38	W NW	4	o	30.01	+4.0	34	33	- 2	Z	0	b	2	42	32	-	
Scilly ...	29.85	39	W	1	b	30.05	+3.7	32	31	- 5	NE	4	b	*	43	31	-	
Plymouth ...	29.85	39	W	1	b	30.05	+3.7	32	31	- 5	NE	4	b	*	43	31	-	
Hurst Castle ...	29.78	40	W NW	4	b	30.04	+4.1	37	35	- 2	W NW	2	b	2	40	33	-	
Dover ...	29.69	35	W	3	b	30.02	+4.5	34	31	+ 2	W	3	b	2	37	31	-	
London ...	29.73	37	W NW	3	c	30.03	+4.4	28	27	- 2	W NW	1	b	*	38	27	-	
Oxford ...	29.73	37	W NW	3	c	30.03	+4.4	29	28	- 3	W NW	1	b	*	37	28	-	
Cambridge ...	29.71	33	SW	1	o	30.01	+4.5	33	31	+ 3	W NW	1	o	*	36	28	-	
Yarmouth ...	29.56	32	W NW	5	q b	29.93	+4.7	30	30	- 0	W	2	mt	2	34	29	-	
The Helder ...	29.56	32	W NW	5	q b	29.93	+4.7	30	30	- 0	W	2	mt	2	34	29	-	
Cape Gris Nez ...	29.69	37	W	6	c	30.00	?	34	36	+ 2	W NW	5	o	4	39	36	-	
Jersey ...	29.89	42	W	3	b	30.12	+4.0	42	40	- 2	W NW	2	c	2	44	40	-	
Brest ...	29.93	50	NE	2	mw	30.10	+3.9	46	45	- 2	SE	2	o	2	43	43	0.20	
L'Orient ...	29.90	46	W NW	3	b	30.15	+4.0	43	43	- 3	S	2	N	3	48	41	0.20	
Rochefort ...	29.88	52	W NW	5	o	30.13	+3.1	46	46	- 2	SE	2	o	3	54	43	0.24	
Biarritz ...	30.11	59	W	6	c	30.37	+3.5	54	52	- 1	W NW	4	c	4	?	50	0.16	
Corunna ...	29.82	46	W	5	o	29.92	+1.0	43	41	- 2	W NW	7	b	7	48	43	0.08	
Brussels ...	29.97	33	W	4	o	29.97	+4.5	33	33	+ 1	W	4	o	*	*	*	-	
Charleville ...	29.96	26	W	3	c	29.96	+4.1	26	26	- 5	W	3	c	*	*	*	-	
Paris ...	29.74	38	W	2	c	30.10	+4.2	37	35	- 1	W NW	1	o	*	*	*	-	
Lyons ...	29.74	38	W	2	c	30.10	+4.2	37	35	- 1	W NW	1	o	*	*	*	-	
Toulon ...	29.82	46	W	5	o	29.92	+1.0	43	41	- 2	W NW	7	b	7	48	43	0.08	

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

Bar.	Dry.	Wet.	Wind.	Wet.	Sea.	Bar.	Dry.	Wet.	Wind.	Wet.	Sea.
Skudesnaes ...	29.41	32	30	E	2	Valencia ...	29.83	44	41	2	o
Thurso ...	29.33	29	28	Z	o	Scilly ...	29.63	34	34	W NW	2
Scarborough ...	29.46	34	33	W NW	3	London ...	29.73	52	52	W NW	6
Greencastle ...	29.61	35	32	W NW	3	Rochefort ...	29.73	52	52	W NW	6
Holyhead ...	29.66	39	35	W	6						

Pressure is increasing slowly in all places except Rochefort; the weather has, however, become more cloudy and the NW wind which continues general has increased to a gale locally in the Clyde.

EXPLANATION OF COLUMNS.

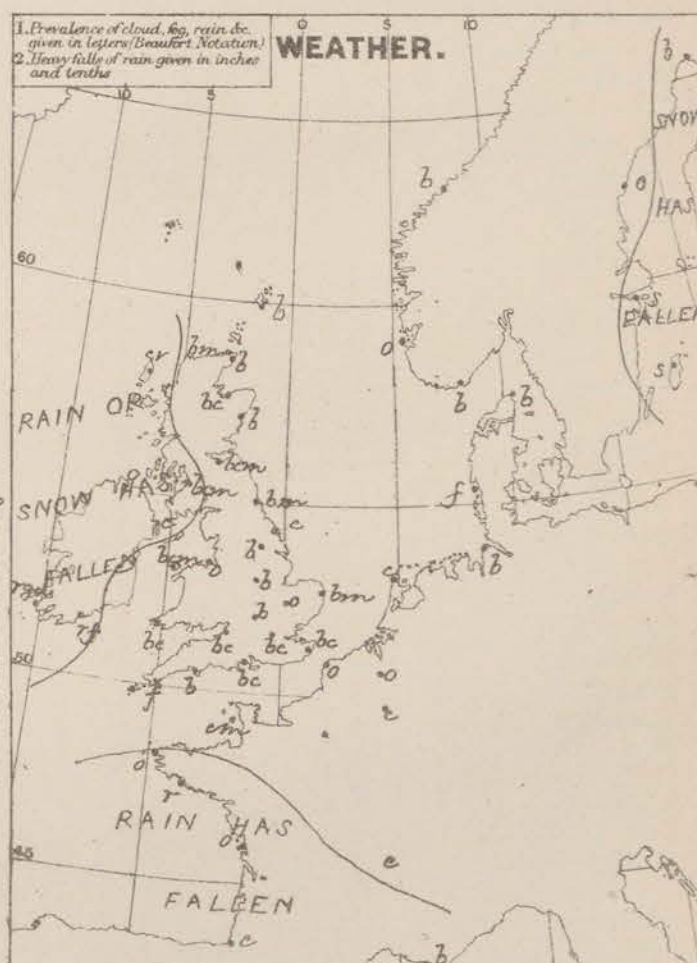
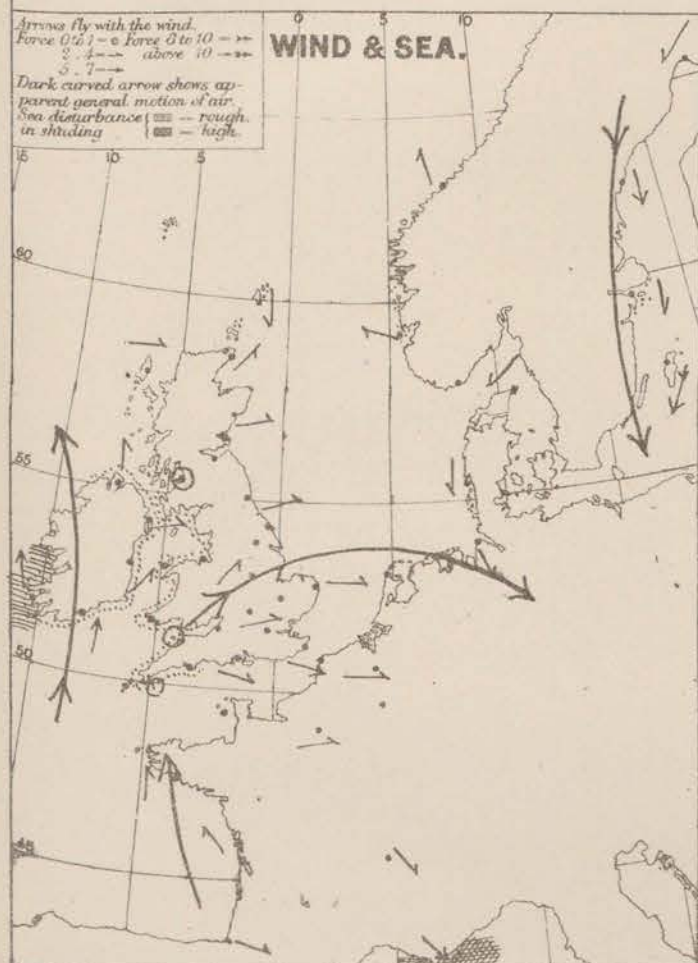
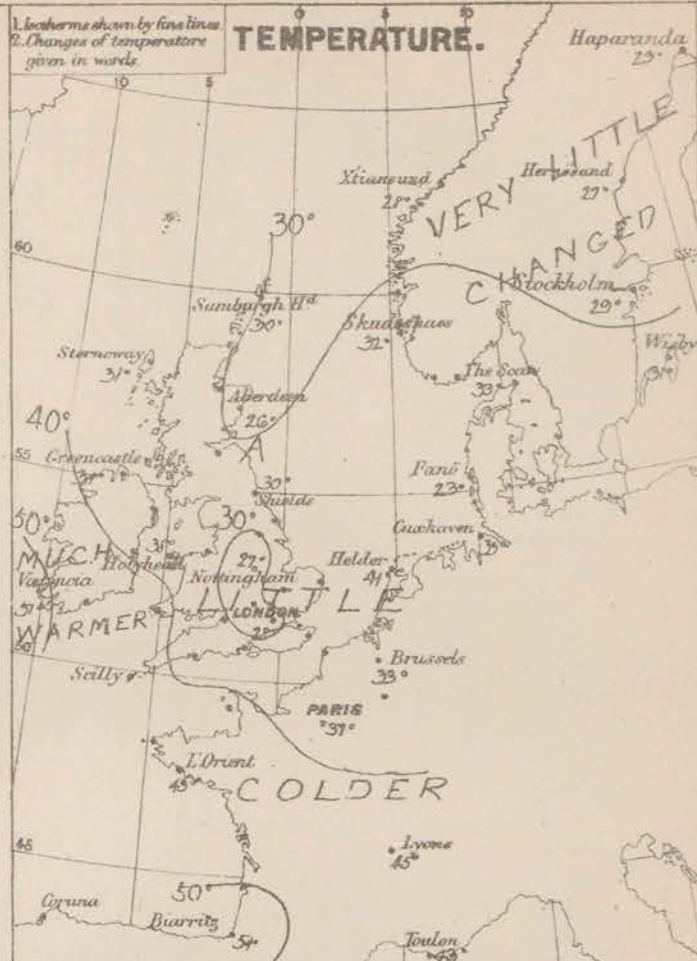
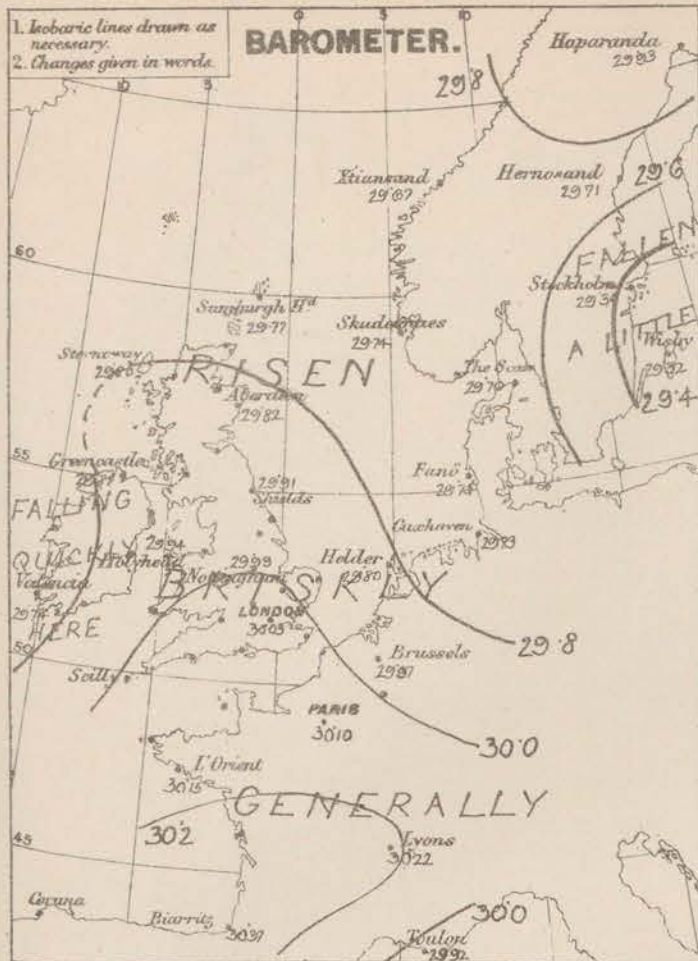
WEATHER.—Beaufort Scale is, b. blue sky; c. detached clouds; d. drizzling rain; f. fog; g. dark, gloomy; h. hail; l. lightning; m. misty (hazy); o. overcast; p. passing showers; q. squally; r. rain; s. snow; t. thunder; u. ugly, threatening; v. visibility, unusual transparency; w. dew.

* 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 28th Dec^r 1877.



REMARKS. Weather is at present fine and dry over S. Britain, but wet and gloomy in Ireland, with a threatening appearance at Valentia. Snow fell in the northern parts of England and Ireland yesterday. Temperature varies very much this morning. It stands at from 28° to 31° over the inland parts of S. Britain, while it has risen quickly and is as high as 51° in the south of Ireland. During last evening it went down to 15° at Thurso and 20° at Wick, but has since risen to 30° at both stations. The rise in Ireland seems therefore to be extending quickly. In London it went as low as 27° in the shade and 19° on the grass early this morning. Wind is now light from the N. in Denmark and North Germany, light W. in England and Scotland, but has backed to S. in Ireland, and is blowing a strong breeze over the southern parts of that country. A NW gale was felt in the west of Scotland yesterday afternoon. Sea is rough at Valentia, moderate to smooth elsewhere.

Barometrical Indications. A rise in the barometer has taken place all over our Islands since yesterday morning, the change amounting to 0.6 in the east of Scotland and 0.4 in the south of England. During the past night, however, a brisk fall has set in over Ireland, and a depression is advancing to our western coasts from the Atlantic.

Forecasting. The following message has been sent to our western coasts this morning:—"Barometer falling fast Valentia. Wind backed to S. and freshening. Haze. Small cone. Friday 11.5 a.m."

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

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

DAILY WEATHER REPORT

DEC: 29TH

1877.

STATIONS.	† YESTERDAY EVENING.					8 A.M. TO DAY.										PAST 24 HOURS.		
	Barometer at 32° F. and Sea Level.	Temp. in shade.	WIND.		Weather.	BAROMETER.		SHADE TEMP.			WIND.		Weather.	Sea. (0 to 9.)	SHADE TEMP.		Amount of Rainfall.	
			Dir.	Force. (0 to 12).		Reading at 32° F. and Sea Level.	Difference from 8 a.m. yesterday.	Dry.	Wet.	Difference from 8 a.m. yesterday.	Dir.	Force. (0 to 12).			Max.	Min.		
Haparanda ...														*				
Hernösand ...														*	*	*		
Stockholm ...														*	*	*		
Wisby ...														*	*	*		
Christiansund ...																		
Skudesnaes ...																		
Oxö (Ktiansand) ...																		
Skagen (The Seaw)														*				
Fanö ...																		
Cuxhaven ...	29.90	30	W S W	2	f	29.94	+ .21	27	27	- 6	S S W	2	f	*	?	25		
Sumburgh Head ...	29.74	38	S S E	3	b	29.30	- .47	41	39	+ 11	S E	8	N	y	42	28	0.02	
Stornoway ...	29.56	37	S S E	1	o	29.00	- .80	45	45	+ 14	S S W	5	c d	4	45	30	0.20	
Thurso ...	29.67	33	S S E	2	o	29.13	- .64	38	37	+ 8	S S E	4	o	3	38	24	0.07	
Wick ...	29.66	38	S	5	o	29.15	- .64	46	46	+ 10	S	5	o	5	40	26	0.15	
Nairn ...	29.66	33	S	0	c	29.18	- .65	37	36	+ 7	S	0	o	o	39	27	0.13	
Aberdeen ...	29.74	30	S W	1	b	29.25	- .57	40	38	+ 14	S	2	N	1	40	25	0.25	
Leith ...	29.74	34	S	2	o	29.26	- .51	39	39	+ 8	N E	1	o m	*	40	24	0.63	
Shields ...	29.83	36	W S W	2	f	29.39	- .52	37	36	+ 7	W S W	3	o f	2	37	30	0.30	
Scarborough ...	29.82	35	W S W	2	o	29.44	- .47	40	40	+ 8	S W	3	m	2	40	32	0.15	
York ...	29.87	34	S S E	2	o	29.45	- .49	40	40	+ 10	S W	1	c	*	40	29	0.18	
Nottingham ...	29.91	33	S S W	2	o	29.53	- .46	45	45	+ 18	S S W	3	o	*	45	27	0.41	
Ardrossan ...	29.69	37	E S E	3	o	29.24	- .43	49	48	+ 19	S W	2	N	4	49	30	0.67	
Greencastle ...	29.55	38	S S W	3	o	29.18	- .63	44	43	+ 10	S W	1	N f	*	45	31	0.57	
Donaghadee ...	29.65	41	S	6	N	29.30	- .59	47	47	+ 16	W S W	4	o	3	48	31	0.54	
Kingstown ...	29.63	46	S S E	1	N	29.37	- .57	52	49	+ 15	W S W	5	b c	4	52	35	0.47	
Holyhead ...	29.67	43	S S W	5	N	29.42	- .52	50	49	+ 12	S S W	4	m	3	51	35	0.90	
Liverpool (Bidston) ...	29.77	34	S E	5	N	29.43	- .51	50	49	+ 13	S W	3	o	1	50	33	0.41	
Valencia ...	29.57	52	S S W	7	N	29.51	- .23	50	47	- 1	W	5	c	5	54	41	0.56	
Roche's Point... ..	29.69	50	S W	5	N	29.50	- .35	49	47	+ 2	W S W	3	b u p	4	53	47	0.40	
Pembroke ...	29.75	50	S S W	4	o	29.53	- .45	51	50	+ 9	W S W	6	o	4	51	42	0.84	
Portishead ...	29.85	44	S E	5	N	29.58	- .43	51	50	+ 17	S S W	4	o	3	52	32	0.56	
Seilly ...																		
Plymouth ...	29.87	49	S S W	2	o	29.68	- .37	51	51	+ 19	S W	3	o N	*	54	32	0.57	
Hurst Castle ...	29.91	45	S E	4	N	29.64	- .40	50	50	+ 13	W S W	4	N	4	51	34	0.45	
Dover ...	29.04	37	W S W	4	o	29.71	- .31	48	48	+ 14	W S W	3	o f r	3	49	33	0.34	
London ...	30.00	35	W S W	2	o S	29.65	- .38	49	49	+ 21	S W	3	o	*	49	28	0.52	
Oxford ...	*	*	*	*	*	29.60	- .43	47	47	+ 18	S	2	o	*	47	28	0.37	
Cambridge ...	29.96	33	S W	1	S	29.60	- .41	45	45	+ 12	S W	1	N	*	45	31	0.80	
Yarmouth ...	29.97	32	W	1	b	29.63	- .30	42	42	+ 12	S S W	2	N f	3	42	29	0.33	
The Helder ...	*	*	*	*	*	29.79	- .01	34	33	- 7	S S E	1	S	*	*	*	0.04	
Cape Gris Nes ...	30.03	41	S W	2	o	29.75	- .25	48	48	+ 11	S W	5	o N	4	?	36	0.43	
Jersey ...	29.96	49	S W	7	N	29.81	- .31	51	51	+ 9	S W	7	o m	6	52	42	0.24	
Brest ...	30.02	52	W	4	o	29.84	- .26	54	52	+ 8	W S W	4	f	5	54	45	0.12	
L'Orient ...	30.04	52	W S W	3	N	29.90	- .25	52	52	+ 9	S W	5	N	4	54	41	0.04	
Roche fort ...	30.17	52	S W	3	N	30.09	- .04	54	52	+ 18	W S W	4	o	4	55	45	0.04	
Biarritz ...	30.37	57	S S W	3	o	30.32	- .04	54	48	0	S	1	o	3	57	46	-	
Corunna ...	*	*	*	*	*			*	*					*	*	*		
Brussels ...	*	*	*	*	*	29.81	- .16	37	*	+ 4	S	4	N	*	*	*	0.13	
Charleville ...	*	*	*	*	*	29.88	- .08	36	*	+ 10	S E	6	N	*	*	*	*	
Paris ...	30.12	40	S W	1	N	29.91	- .19	49	49	+ 12	S W	3	N	0	*	*	0.39	
Lyons ...	*	*	*	*	*	30.19	- .03	41	*	- 4	S	2	N	*	*	*	*	
Toulon ...	30.12	45	W	6	b	30.17	+ .25	43	41	0	W	6	b	6	48	43	-	

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

	Bar.	Dry.	Wet.	Wind.	Wen.	Sea.		Bar.	Dry.	Wet.	Wind.	Wen.	Sea.		
Skudesnaes ...	29.86	21	21	N E	1	b	2	Valencia	29.67	53	52	S W	7	N g	6
Thurso	29.75	25	25	S	1	c m	3	Seilly							
Scarborough ...	29.92	34	32	W S W	1	o	2	London	30.03	38	35	W S W	2	o m	*
Greencastle ...	29.71	34	33	S S E	3	N	*	Roche fort ...	30.17	52	50	W S W	2	b o	3
Holyhead	29.84	36	36	E S E	3	N	2								

The barometer is falling at all but the NE stations - most in the W. and NW. The wind has veered to SW at Valencia, and still blows very strongly, while it is freshening from the SE in Wales and the Irish Sea, with rain. In London the weather has become very dull.

EXPLANATION OF COLUMNS.

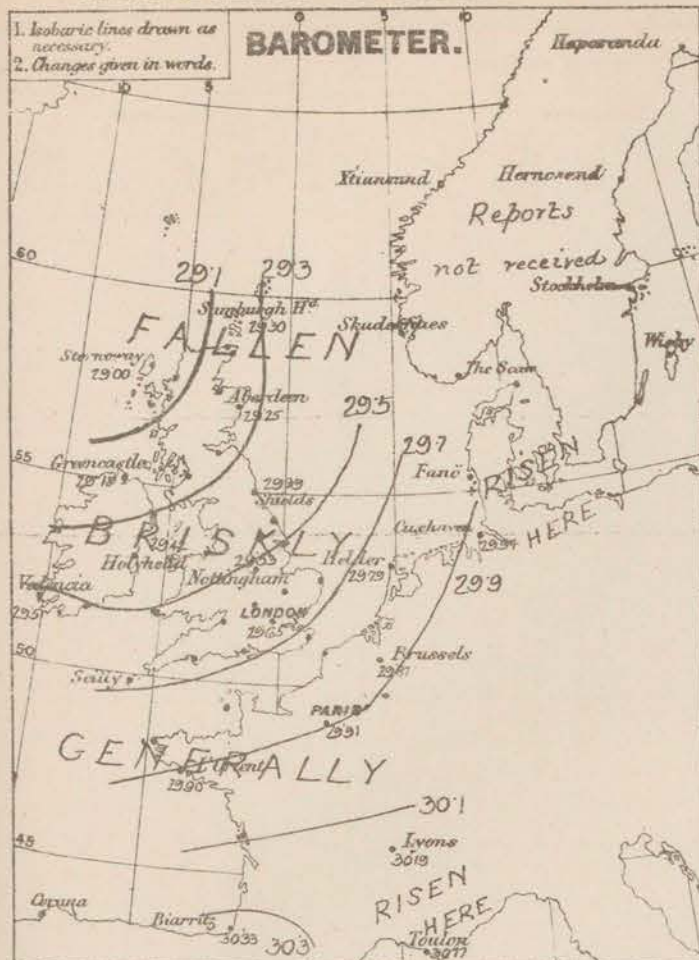
WEATHER.—Beaufort Scale is, b. blue sky; o. detached clouds; d. drizzling rain; f. fog; g. dark, gloomy; h. hail; l. lightning; m. misty (hazy); o. overcast; p. passing showers; q. squally; r. rain; s. snow; t. thunder; u. ugly, threatening; v. visibility, unusual transparency; w. dew.

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

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

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

WEATHER CHARTS for 8 a.m. on Saturday 29th Dec^r 1877.



DAILY WEATHER REPORT

DEC 30th 1877.

STATIONS.	† YESTERDAY EVENING.					8 A.M. TO DAY.										PAST 24 HOURS.		
	Barometer at 32° F. and Sea Level.	Temp. in shade.	WIND.		Weather.	BAROMETER.		SHADE TEMP.			WIND.		Weather.	Sea. (0 to 9.)	SHADE TEMP.		Amount of Rainfall.	
			Direc.	Force. (0 to 12).		Reading at 32° F. and Sea Level.	Difference from 8 a.m. yesterday.	Dry.	Wet.	Difference from 8 a.m. yesterday.	Direc.	Force. (0 to 12).			Max.	Min.		
Haparanda ...	29.54	19	NE	2	0	29.90	+ .09	6	5	— 15	N	2	bc	*	*	*	0.08	
Hernösand ...	29.78	20	N	2	0	29.92	+ .29	?	?	?	S	2	c	*	*	*	—	
Stockholm ...	29.70	17	N	2	6	29.84	+ .34	12	10	— 11	Z	0	b	*	*	*	—	
Wisby ...	29.69	28	NW	6	0	29.84	+ .28	28	27	— 2	NW	4	c	*	*	*	0.16	
Christiansund ...	29.51	30	SSE	2	0	29.43	— .27	37	31	+ 4	SSE	2	0	3	37	27	—	
Skudesnaes ...	29.50	36	SE	8	5	29.56	— .15	39	35	+ 7	SE	6	0	5	?	32	—	
Oxö (Xtiansand) ...	29.69	36	SE	8	0	29.66	?	36	35	+ 15	SE	6	0	4	?	34	0.12	
Skagen (The Seaw) ...	29.78	33	NW	3	6	29.74	— .10	33	31	+ 2	SSE	4	0	4	34	30	—	
Fanö ...	29.62	31	SE	6	5	29.65	?	36	33	+ 9	NW	1	m	*	36	27	0.04	
Cuxhaven ...	29.74	4	S	3	7	29.74	— .20	38	38	+ 11	NW	3	7	*	?	28	0.02	
Sumburgh Head ...	29.09	45	NW	3	7	29.24	— .06	44	43	+ 3	SE	4	c	4	46	37	0.19	
Stornoway ...	29.08	45	NW	5	0	29.15	+ .15	41	40	— 4	NW	4	c	4	46	39	0.39	
Thurso ...	29.13	38	Z	0	0	29.19	+ .06	41	40	+ 3	S	3	c	2	41	37	0.04	
Wick ...	29.14	41	N	2	0	29.21	+ .06	43	40	+ 3	N	2	bc	2	44	39	—	
Nairn ...	29.21	42	Z	0	0	29.26	+ .08	43	42	+ 6	N	2	c	1	46	35	0.02	
Aberdeen ...	29.25	38	S	1	0	29.34	+ .09	43	42	+ 3	S	3	c	1	44	36	—	
Leith ...	29.33	46	N	3	0	29.40	+ .14	47	46	+ 8	NW	4	c	*	31	38	0.04	
Shields ...	29.45	42	N	3	0	29.53	+ .14	45	42	+ 8	NW	2	om	2	48	35	—	
Scarborough ...	29.49	42	SW	2	0	29.62	+ .18	43	42	+ 3	SSE	2	0	2	45	40	—	
York ...	29.53	43	NW	1	0	29.64	+ .19	41	41	+ 1	SW	1	0	*	47	39	0.03	
Nottingham ...	29.60	44	SW	2	0	29.70	+ .17	46	45	+ 1	SSE	2	0	*	32	40	—	
Ardrossan ...	29.36	48	SW	4	0	29.42	+ .18	47	43	— 2	SW	3	c	4	50	47	0.10	
Greencastle ...	29.32	45	NW	3	0	29.38	+ .20	40	39	— 4	SW	2	0	*	47	38	0.19	
Donaghadee ...	29.44	46	NW	3	0	29.49	+ .19	43	43	— 4	NW	3	0	2	48	42	0.02	
Kingstown ...	29.52	50	S	2	0	29.56	+ .19	49	46	— 3	SW	2	0	2	32	47	—	
Holyhead ...	29.53	48	SW	4	0	29.58	+ .16	49	48	— 1	SW	2	0	2	34	46	0.04	
Liverpool (Bidston) ...	29.45	46	SW	3	0	29.59	+ .16	49	47	— 1	SSE	4	0	1	32	46	0.03	
Valencia ...	29.56	51	SW	6	0	29.55	+ .04	44	43	— 6	NW	1	tg m	1	33	42	0.17	
Roche's Point ...	29.63	51	N	4	0	29.55	+ .05	48	47	— 1	SW	3	0	4	55	47	0.20	
Pembroke ...	29.63	50	SW	4	0	29.65	+ .12	50	49	— 1	SSE	3	0	4	51	49	0.05	
Portishead ...	29.67	48	NW	5	0	29.73	+ .15	48	47	— 3	SW	4	0	4	32	43	0.07	
Seilly ...	29.74	51	SW	2	0	29.77	+ .09	51	51	0	SW	5	0	*	53	50	0.05	
Plymouth ...	29.74	51	SW	2	0	29.77	+ .09	51	50	+ 1	SW	4	0	4	52	48	0.03	
Hurst Castle ...	29.72	50	N	4	0	29.79	+ .15	51	50	+ 1	N	3	odf	2	50	45	0.06	
Dover ...	29.69	48	N	3	0	29.87	+ .16	48	47	0	N	3	odf	2	50	45	0.06	
London ...	29.68	51	NW	3	0	29.81	+ .16	48	47	— 1	SSE	2	od	*	54	45	0.04	
Oxford ...	29.76	51	SW	1	0	29.76	+ .16	46	45	— 1	S	1	m	*	53	45	0.04	
Cambridge ...	29.64	47	SW	1	0	29.77	+ .17	45	44	0	SSE	1	0	*	54	40	0.02	
Yarmouth ...	29.58	48	NW	3	0	29.75	+ .12	42	42	0	SSE	2	0	*	49	41	0.05	
The Helder ...	29.77	51	SW	2	0	29.77	— .02	43	42	+ 9	SW	2	0	*	51	48	0.20	
Cape Gris Nez ...	29.74	46	NW	5	0	29.88	+ .13	48	48	0	NW	7	0	3	50	46	0.20	
Jersey ...	29.87	51	NW	5	0	29.94	+ .13	50	50	— 1	SW	4	om	4	53	49	0.05	
Brest ...	29.91	54	N	3	0	29.91	+ .07	52	50	— 2	NW	3	0	5	56	50	0.04	
L'Orient ...	30.05	52	N	4	0	29.99	+ .09	52	52	0	NW	3	m	5	55	48	—	
Rocheport ...	30.04	54	SW	5	0	30.09	00	52	52	— 2	NW	4	0	3	54	48	0.59	
Biarritz ...	30.29	57	S	2	0	30.30	— .03	57	50	+ 3	SSE	3	0	3	61	50	0.04	
Corunna ...	30.12	57	SW	2	0	30.12	— .03	57	50	+ 3	SW	6	0	2	51	43	—	
Brussels ...	29.92	51	SW	1	0	29.92	+ .11	46	45	+ 9	SW	4	0	*	51	43	0.16	
Charleville ...	29.92	51	SW	1	0	29.92	+ .11	46	45	+ 9	SW	4	0	*	51	43	0.16	
Paris ...	29.88	52	SW	4	0	29.92	+ .13	48	47	— 1	SW	1	0	*	51	43	—	
Lyons ...	29.88	52	SW	4	0	29.92	+ .13	48	47	— 1	SW	1	0	*	51	43	—	
Toulon ...	30.16	48	N	5	0	30.16	— .03	48	46	+ 5	NW	5	0	4	55	43	—	

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

	Bar.	Dry.	Wet.	Wind.	Wes.	Sea.		Bar.	Dry.	Wet.	Wind.	Wes.	Sea.		
Skudesnaes ...	29.54	36	33	SE	8	0	6	Valencia	29.53	52	50	WSW	6	cu	5
Thurso	29.06	41	40	S	7	C	2	Scilly							
Scarborough ...	29.43	45	45	SW	2	m	2	London	29.63	54	52	WSW	3	C	4
Greencastle ...	29.29	45	44	WSW	2	0	*	Rochefort ...	30.05	52	?	SW	5	+	3
Holyhead	29.52	49	48	SW	4	C	2								

The barometer has risen somewhat in the N. since the morning, but since noon it has begun to fall again slightly at Valencia, and the wind there has become strong from NW.

EXPLANATION OF COLUMNS.

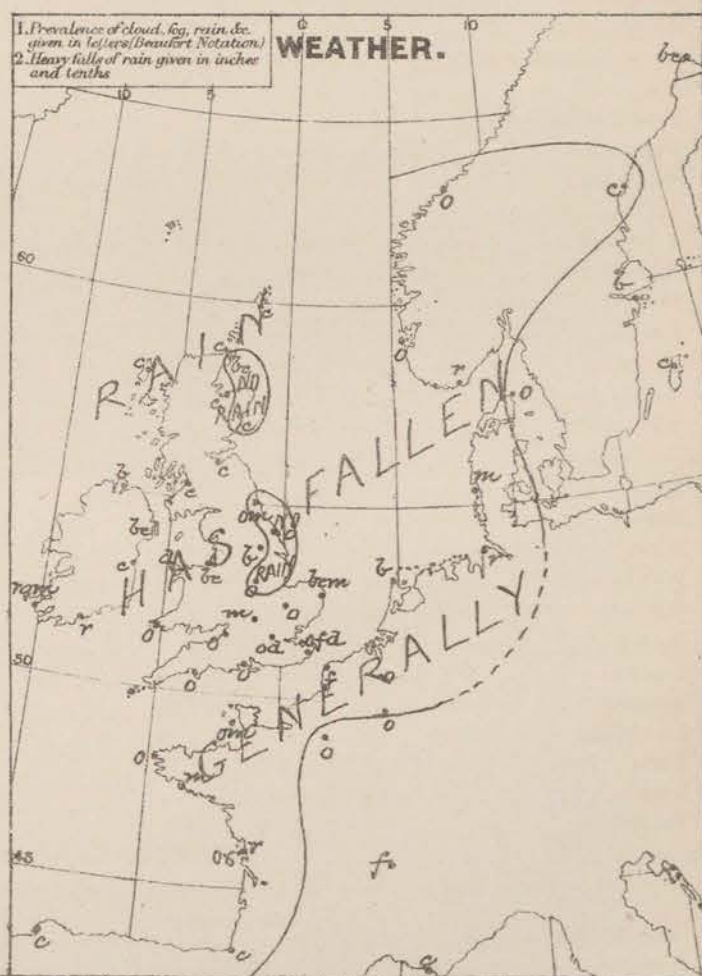
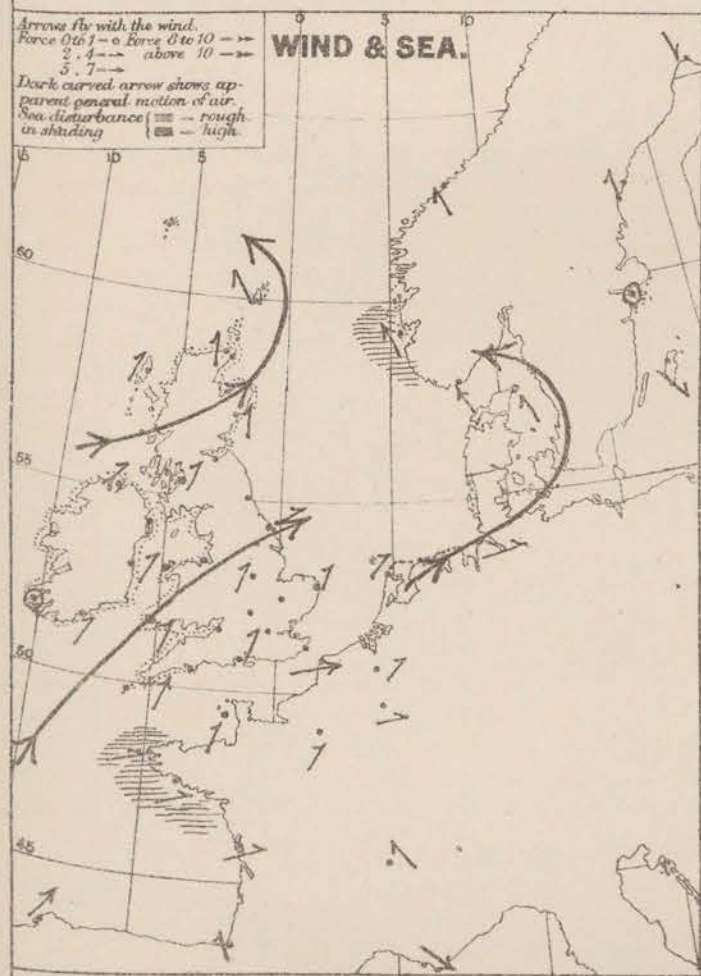
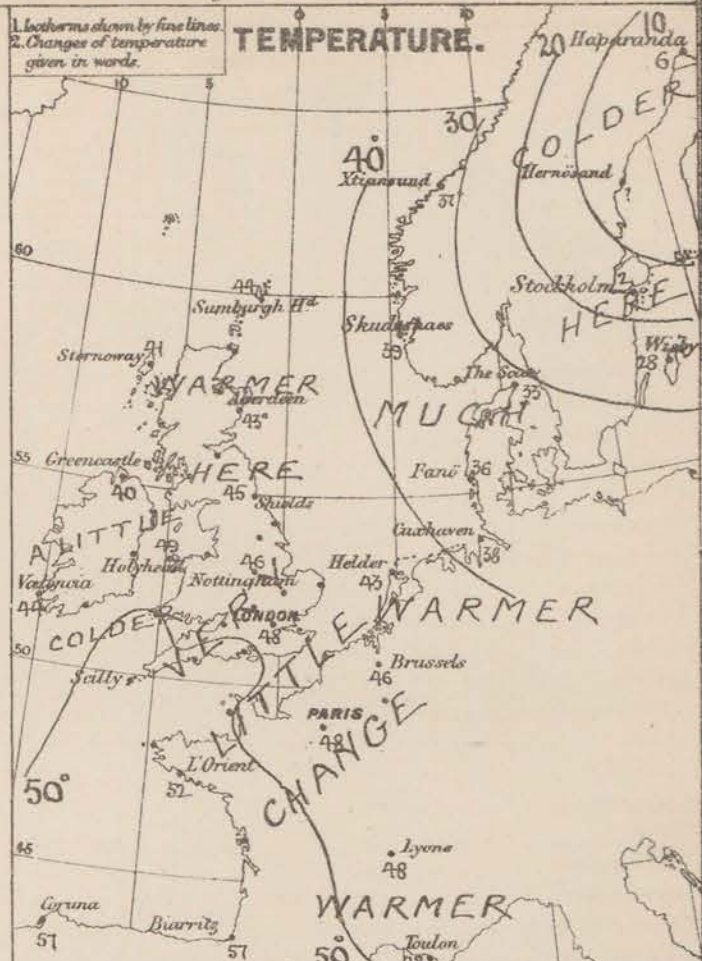
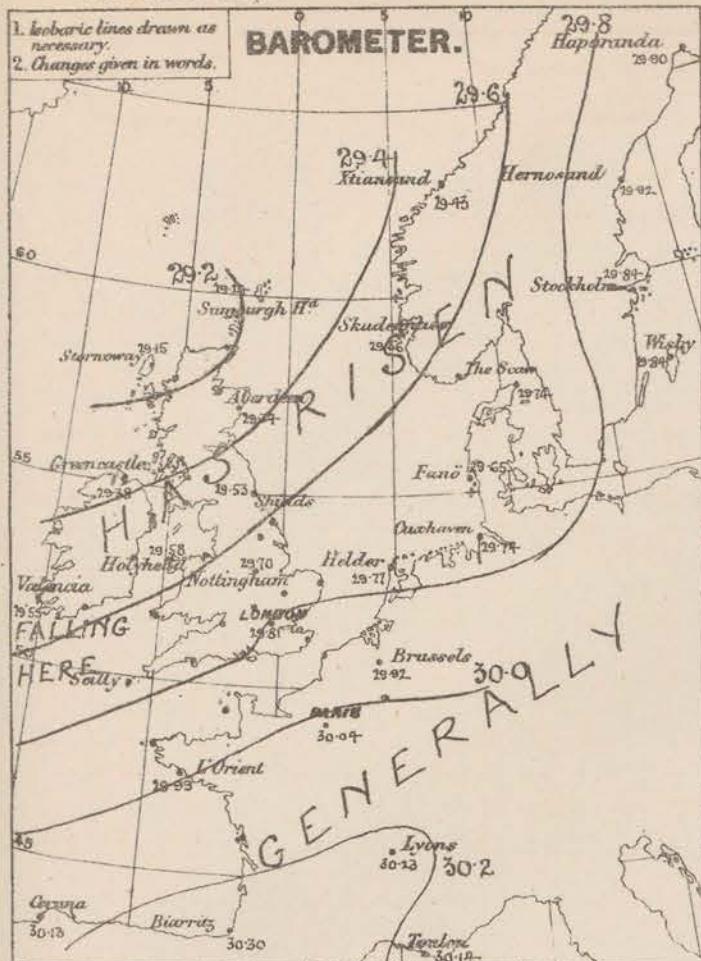
WEATHER.—Beaufort Scale is, b. blue sky; c. detached clouds; d. drizzling rain; f. fog; g. dark, gloomy; h. hail; l. lightning; m. misty (hazy); o. overcast; p. passing showers; q. squally; r. rain; s. snow; t. thunder; u. ugly, threatening; v. visibility, unusual transparency; w. dew.

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

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

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

WEATHER CHARTS for 8 a.m. on Sunday December 30th 1877.



A dotted line is drawn round the coast where the signal has been hoisted.

REMARKS. *Weather is at present fine at all our N^o stations, but dull and unsettled elsewhere, with rain in several places, notably in the S. of Ireland. Rain has fallen except on the NE. coast of England, but the amounts are small. Temperature has shown further increase in the E and NE, but in the W and SW, there is a slight tendency to decrease observed. Sea readings along our E. coast are about 6° above their average values, but thus in the SW, differ very little from their normal. Wind is light to moderate; - NW in France, SW in England, and S to SE in the north. Sea is moderate in the SW, and in the N, smooth on our other coasts.*

Barometrical Indications.
The depression noticed in the NW on Saturday is passing away to the N^o of us, and a further rise of the barometer has taken place in all parts of our islands. In the S. of Ireland, however, the mercury has been falling slightly during the night, and a shallow secondary disturbance is advancing over Ireland from the W^o.

Warnings. *Our W^o and N^o coasts were warned 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. R. H. SCOTT. Secretary.
116, Victoria Street, Westminster, S. W.

DAILY WEATHER REPORT

DEC 31 1877.

1877.

STATIONS.	† YESTERDAY EVENING.					6 A.M. TO DAY.										PAST 24 HOURS		
	Barometer at 330 P. and Sea Level.	Temp. in shade.	WIND.		Weather.	BAROMETER.		SHADE TEMP.			WIND.		Weather.	Sea. (S. by S.)	SHADE TEMP.		Amount of Rainfall.	
			Direc.	Force. (0 to 12).		Reading at 330 P. and Sea Level.	Difference from 8 A.M. yesterday.	Dry.	Wet.	Difference from 8 A.M. yesterday.	Direc.	Force. (0 to 12).			Max.	Min.		
Haparanda	30.02	9	N	2	o	30.13	+ .23	21	21	+ .15	SE	4	o	*	21	-2	-	
Hernösund	30.04	10	Z	o	g	30.11	+ .19	27	26	?	SW	4	o	*	*	*	-	
Stockholm	30.02	8	Z	o	g	30.02	+ .18	28	28	+ .16	SE	4	o	*	*	*	-	
Wisby	29.96	23	SSE	4	o	30.01	+ .17	30	29	+ .2	SSE	6	o	*	*	*	-	
Christiansund	29.46	37	SE	3	o	29.86	+ .13	42	36	+ .5	SSE	3	o	4	45	34	-	
Skudesnaes	29.57	41	SSE	4	r	29.64	+ .08	35	34	- .4	NNE	4	r	3	41	?	0.98	
Oxö (Xtiansund)	29.75	38	NE	4	r	29.67	+ .01	40	40	+ .4	ESE	6	r	4	?	36	0.81	
Skagen (The Sæw)	29.83	36	SE	3	o	29.79	+ .05	37	36	+ .4	SE	7	o	7	37	30	0.04	
Fanö	29.74	34	SW	4	m	29.55	- .10	37	37	+ .1	ESE	6	r	*	37	32	0.85	
Cuxhaven	29.85	*	SSW	3	r	29.56	- .18	42	42	+ .4	SSE	4	r	*	?	36	0.24	
Sumburgh Head	29.21	44	SW	6	r	29.70	+ .46	42	38	- .2	NNW	4	o	4	46	35	0.21	
Stornoway	29.36	38	W	2	o	29.84	+ .69	36	34	- .5	WSW	1	o	4	42	32	0.34	
Thurso	29.33	38	WSW	2	o	29.80	+ .61	37	36	- .4	W	3	o	3	43	36	0.04	
Wick	29.40	39	W	2	o	29.82	+ .61	35	33	- .8	W	2	o	1	44	33	0.01	
Nairn	29.42	36	W	1	o	29.83	+ .57	36	34	- .7	W	1	o	1	44	35	-	
Aberdeen	29.42	40	SSW	1	o	29.82	+ .48	38	35	- .5	NNW	1	o	1	44	35	-	
Leith	29.46	44	WSW	3	o	29.92	+ .82	37	36	- .10	W	2	o	*	47	35	-	
Shields	29.44	45	SW	2	r	29.91	+ .88	37	34	- .8	NNW	4	o	3	47	36	0.37	
Scarborough	29.43	46	SW	3	r	29.86	+ .24	38	35	- .5	NNW	5	o	5	48	38	0.87	
York	29.82	46	SSW	1	r	29.96	+ .32	38	35	- .3	W	2	o	*	49	33	0.91	
Nottingham	29.40	50	S	6	r	30.01	+ .31	39	38	- .7	NNW	3	o	*	51	37	0.16	
Ardrossan	29.45	46	W	2	o	29.97	+ .55	43	40	- .4	NNW	1	o	0	47	37	0.01	
Greencastle	29.48	40	S	2	o	30.00	+ .62	38	36	- .2	WSW	2	o	*	43	35	0.25	
Donaghadee	29.51	41	SW	2	o	30.05	+ .56	34	33	- .9	W	3	o	2	43	34	0.01	
Kingstown	29.53	42	NNW	5	o	30.13	+ .57	39	37	- .10	W	4	o	3	49	38	0.48	
Holyhead	29.47	42	NNW	5	r	30.09	+ .51	43	41	- .6	NNW	5	o	4	51	41	0.92	
Liverpool (Bidston)	29.38	42	SSW	3	r	30.04	+ .45	41	40	- .8	NNW	5	o	2	50	39	0.49	
Valencia	29.75	46	NNW	3	o	30.23	+ .68	42	41	- .2	W	1	o	2	49	41	0.30	
Roche's Point	29.69	39	N	5	o	30.20	+ .65	40	38	- .8	W	2	o	3	50	38	0.56	
Pembroke	29.49	43	NNW	5	o	30.16	+ .51	45	41	- .5	NNW	2	o	3	51	42	0.40	
Portishead	29.44	52	SSW	6	r	30.09	+ .36	42	39	- .6	W	4	o	4	53	46	0.41	
Scilly																		
Plymouth	29.52	50	SW	4	o	30.16	+ .39	41	40	- .10	Z	0	o	*	54	41	0.14	
Hurst Castle	29.53	52	SW	5	o	30.03	+ .24	42	41	- .9	NNW	4	o	4	53	41	-	
Dover	29.67	49	WSW	4	o	29.92	+ .05	42	39	- .6	NNW	4	o	3	50	41	0.38	
London	29.60	51	SW	4	o	29.99	+ .18	40	38	- .8	NNW	5	o	*	52	40	0.72	
Oxford	*	*	*	*	*	30.02	+ .26	40	38	- .6	W	2	o	*	51	39	0.22	
Cambridge	29.53	50	S	2	o	29.94	+ .17	39	37	- .6	NNW	1	o	*	51	39	0.24	
Yarmouth	29.63	46	SSW	3	o	29.76	+ .01	41	38	- .1	NNW	6	o	5	48	38	0.36	
The Helder	*	*	*	*	*	29.36	- .41	44	43	+ .1	SSW	3	o	*	*	*	0.35	
Cape Gris Nez	29.71	48	S	5	o	29.92	+ .04	45	41	- .3	NNW	6	o	5	50	43	0.28	
Jersey																		
Brest	29.76	54	W	5	g	30.24	+ .33	50	50	- .2	W	4	o	5	54	46	0.39	
L'Orient	29.72	54	SW	6	r	30.27	+ .28	46	45	- .6	NNW	4	o	4	54	45	0.47	
Rochefort	29.98	55	SSW	4	o	30.25	+ .16	50	46	- .2	NNW	4	o	3	?	46	0.43	
Biarritz	30.13	59	SSE	4	o	30.44	+ .14	54	48	- .3	NNW	4	o	4	63	46	0.04	
Corunna	*	*	*	*	*													
Brussels	*	*	*	*	*	29.78	- .14	43	*	- .3	NNW	3	r	*	42	*	0.39	
Charleville	*	*	*	*	*	29.81	?	43	*	+ .2	NNW	6	o	*	*	*	*	
Paris	29.86	50	S	4	o	30.02	- .02	45	42	- .3	NNW	4	o	*	*	*	0.28	
Lyons	*	*	*	*	*	30.01	- .22	52	*	+ .4	S	2	r	*	*	*	*	
Toulon	30.14	52	NNW	6	o	30.07	- .07	46	45	- .2	E	5	o	4	56	?	-	

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

Bar.	Dry.	Wet.	Wind.	Wes.	Sea.	Bar.	Dry.	Wet.	Wind.	Wes.	Sea.
Skudesnaes	29.55	40	SE	6	o	Valencia					
Thurso						Scilly					
Scarborough						London					
Greencastle						Rochefort	30.02	54	SW	4	o
Holyhead											

EXPLANATION OF COLUMNS.

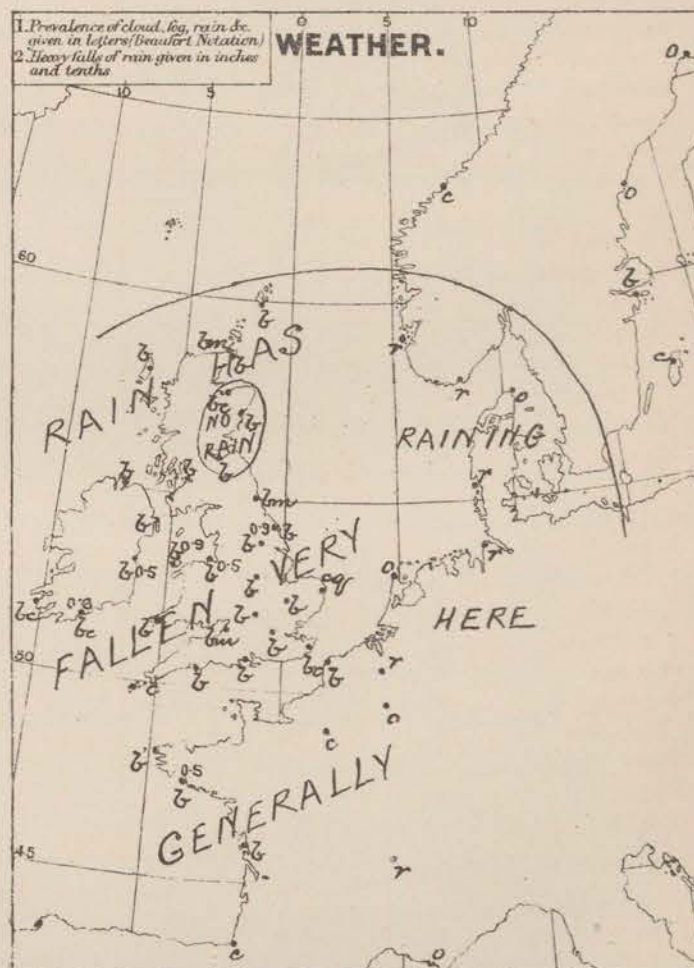
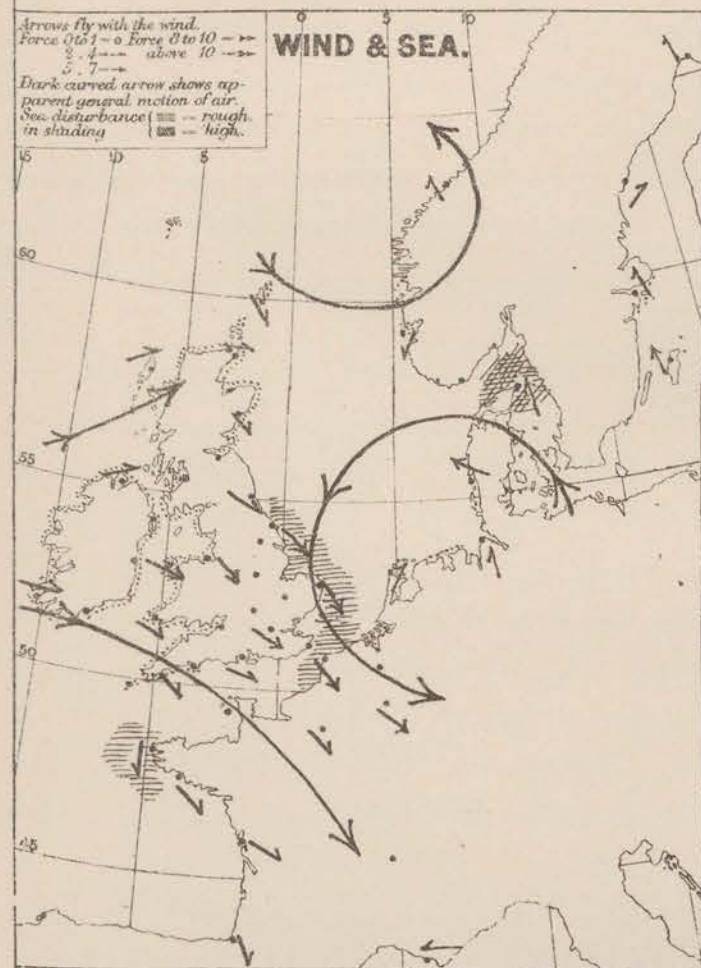
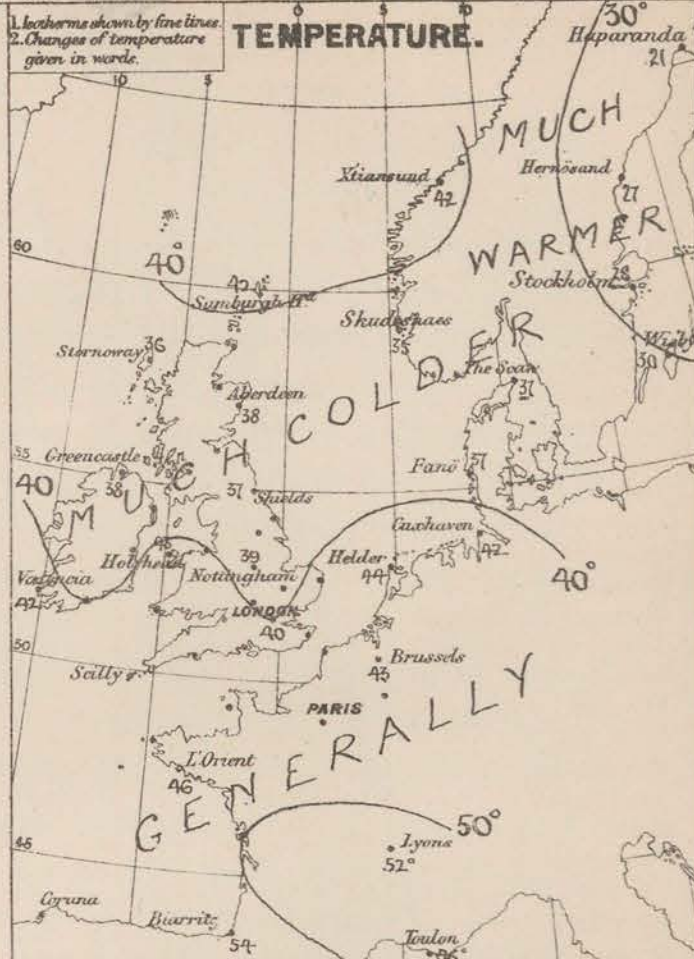
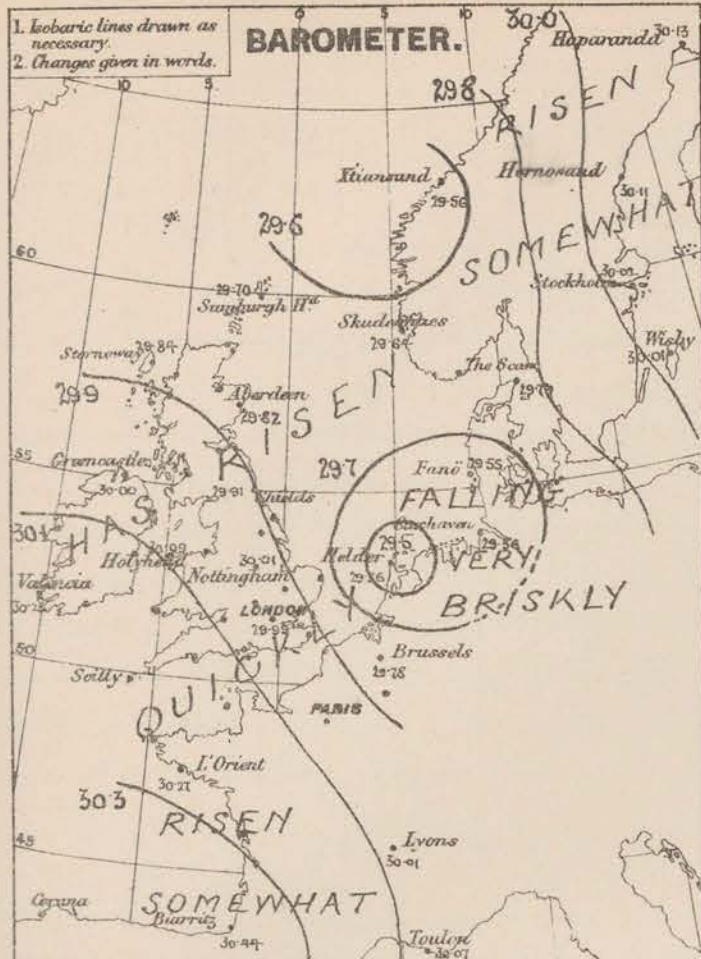
WEATHER.—Beaufort scale is, b. blue sky; o. detached clouds; d. drizzling rain; f. fog; g. dark, gloomy; h. hail; l. lightning; m. misty (hazy); o. overcast; p. passing showers; q. squally; r. rain; s. snow; t. thunder; u. ugly, threatening; v. visibility, unusual transparency; w. dew.

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

WEATHER CHARTS *for 8 a.m. on Monday DEC 31ST 1877.*



Note: A dotted line is drawn round the counts where the signals are still flying.

REMARKS. Weather is at present fine and bright in all parts of our Islands, and the N and W. of France, and rainy on the E^r shores of the Irish Sea, and in the E. of France. A great deal of rain fell in England, Ireland and France yesterday, 0.9 in. being reported from Scarborough; York and Holyhead, and about half an inch at Kingston, Liverpool, Rocher Pt and La Point. Elsewhere the amounts were smaller. Temperature has decreased very suddenly. In London it has fallen 11° in the night, and at Nottingham it fell 12.5° between 8 p.m. and 11 p.m. The readings were very fine 46° in the extreme SW. of England to 36° in Scotland. Winds are very light from WSW or our NW coasts, but chiefly NW^r in the NE, E, and S, and blow strongly on our E coast. A slight gale from the NW^o was felt in the E. of England during the night. Sea is rough in the SE, moderate or slight elsewhere. Barometrical Indications. A large depression has passed from W to E. over our N^r stations, during the past 24 hours, and a deep secondary disturbance, in the same direction, over England. The centre of the latter is now over Holland, and the barometer is rising very rapidly on our E. coast. Weather is not at all settled. Warnings. The south coast was hoisted on our W^r and N^r coasts on Saturday evening.

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^r 23rd to DEC^r 31st 1877.

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

The weather has been unsettled during this period. At first depressions passed SE^{ly} down the North Sea, giving us NW^{ly} winds and cold weather, during the time of the advance of these disturbances the weather was dull and gloomy, but as the barometer rose in their rear the sky cleared and fine frosty days were experienced, this was particularly the case on the 25th and 27th. On the 28th and 29th a very sudden and important change occurred, a deep depression appeared in the N, the wind became S^{ly}, the frost gave way, and temperature rose with great rapidity. When this depression had disappeared NE^{ly}, a small depression passed from N.E. across Ireland and England. It occasioned very dull and unsettled weather over the British Isles on Sunday, but on Monday by which time the centre had reached N. Germany, the wind veered to NW, and very fine bright weather was experienced.

DEC^r 23rd The depression which on the 22nd lay to the N^W of these Islands, had travelled away NE^{ly}, and had its centre at 8 a.m. over the N. of Scandinavia, occasioning a decrease of pressure of from 0.6 in. to 0.8 in. at the Swedish stations. At all our more N^{ly} and NW^{ly} ports as well as in the N. of Norway the mercury was rising briskly, but in the S. the barometer was rendered very unsteady by small local depressions. Wind was N^{ly} to NW^{ly} on our coasts, N^{ly} in Denmark, and SW^{ly} in Sweden, it was moderate or fresh generally, but blew a gale at Christiansund and Alstey. Temperature had risen over France and N. Germany, but fallen over these Islands - briskly in the N. Weather was fine at nearly all the British but very cloudy at the Continental stations. Snow and rain had been general. During the day the barometer rose at all stations except Stormoway, where the mercury was falling slightly at 6 P.M.

DEC^r 24th The fall of the barometer noticed on the previous evening proved to have been the first indication of a new disturbance; it had advanced upon us from the NW^{ly}, and at 8 a.m. had its centre between the Scotch and Norwegian coasts; the mercury had fallen over half an inch at the NE^{ly} stations, and to a less extent on most coasts. Wind was N^{ly} to NW^{ly} in Scotland, N^{ly} over Ireland and England, and SW^{ly} in N. Germany; it was moderate or strong in force generally, and blew a gale at Thurso, and over the Clyde and Mersey. Temperature had risen very quickly in the south-west of France, but had fallen in nearly all other part of the Continent, while in these Islands a slight increase was reported. In the Gulf of Bothnia the weather was cold. The sky looked unsettled and was generally dull, while snow and rain had again occurred in many places. Later in the day the barometer rose briskly in the N. though it still fell in the SE, the depression continued to travel from NW to SE, and the wind increased to a strong gale from NW at Holyhead at 2 P.M.

DEC^r 25th The centre of the depression just mentioned lay over the Skager Rack and the barometer had fallen over three quarters of an inch at the Shaw and half an inch at Orö; at all our more N^{ly} and E^{ly} stations the mercury was rising, but in the SW and in the N. of France it was falling. Wind was NW^{ly} at most of our own and the French stations, and on the eastern shores of the North Sea, but was SE^{ly} at Stockholm and Alstey, and it was moderate in force except in Scandinavia and Denmark. Temperature had risen a few degrees in France, but fallen fast over the British Isles, in the E. where the thermometer stood at about 28°, the change varied from 12° to 16°. Weather was clear at the greater number of our stations, but snow was reported in the N. of Ireland and Scotland; on the Continent the sky was cloudy with snow at Copenhagen and in Sweden, rain at Paris. During the day the barometer fell everywhere - quickly in the N.

DEC^r 26th A fresh depression had appeared in the NW of Scotland, the barometer had fallen 0.88 in. at Stormoway and to a less extent in all parts of NW Europe, except at some of the Scandinavian stations. Wind was strong from NW on all our more NW^{ly} coasts and in the N. of France, while it drew from N. through S into E. over Scandinavia.

Temperature had risen slightly except on the E^m shores of the North Sea, it was, however, still low in the SE. of England. Weather was cloudy and unsettled with showers of hail and rain in the SW. and W. and of snow in the NW. Later reports showed that the depression was moving slowly SE^m, but the barometer was rising slowly everywhere. A severe gale from NW. accompanied by snow was blowing in the North at 6 PM.

DEC^r 27th Pressure was decreasing slightly in N. Germany, but was increasing in all other places. Readings were highest over Spain, while a large area of low readings lay over Scotland, the North Sea, Denmark, and the S. of Scandinavia. Wind was NW^{ly} to N^{ly} except in Scandinavia where it was SE^{ly}, it was for the most part moderate or light except in the Hebrides and N. Wales. Weather was clear in Norway and at our E^m and SE^m stations, cloudy or dull elsewhere with rain over the W. of France, snow at Alesund and Stornoway, hail at Holyhead. Later reports showed that the barometer was still rising everywhere, and that the centre of low pressure in the N. appeared to be travelling like its predecessors SE^m across the North Sea.

DEC^r 28th The large area of low readings noticed on the 27th was disappearing over the Baltic and the mercury was rising over the whole of Scandinavia, St. Britain and France, but in the SW. of Ireland, a fresh and brisk decrease was reported. Wind was SE^{ly} over the Bay of Biscay, S^{ly} on our W^m coasts, N^{ly} in the E, and N^{ly} over Sweden and Denmark, it was strong in the S. of Ireland on the one side, and at Dublin on the other, but was light or moderate elsewhere. Temperature had risen considerably in the SW. but had fallen somewhat in most other parts. Weather was fine over Great Britain, rain and foggy in Ireland. In the afternoon and evening the barometer was falling briskly at all the NW^m stations, and the S^{ly} wind had freshened, so that the frost broke up suddenly with a heavy rainfall.

DEC^r 29th The barometer had fallen over the whole of NW. Europe, the change varying from 0.01 in. in the Hebrides to 0.04 in. in the SW. of France. A large disturbance lay off the NW. of Scotland, while the highest pressures were still reported from Spain. Wind was NW^{ly} to SW^{ly} on our own and the French coasts, but drew into SE. in the W. of Norway and the Shetlands, while in the Baltic a N^{ly} wind was reported; in most places the wind was strong, and at Lumburgh Head it blew with the force of a gale. Temperature had risen with great rapidity, the greatest change 21° being in London. Weather was overcast or very cloudy with rain, mist and fog in the Channel. During the day the barometer rose except in the Shetlands and the W. of Norway, but pressure remained unsteady in the W.

DEC^r 30th Pressure had not changed much, it had fallen slightly in Norway and risen elsewhere, but a small depression was apparently advancing over Ireland. Wind was still SW^{ly} generally, and SE^{ly} in Norway. Temperature had changed little and rather irregularly; it was high for the time of year over the whole country. Weather was wet in the SW. of Ireland, and more or less cloudy in nearly all other places. In the evening the barometer was rising briskly in the W. and N. but falling in the E, the small depression noticed over Ireland in the morning having become more pronounced and advanced E^m to Central England.

DEC^r 31st The depression which had become still more distinctly marked lay over Holland, the barometer was falling in N. Germany but rising elsewhere - quickly in these Islands. Wind was NW^{ly} on our coasts, SE^{ly} in the countries to the E^m of the North Sea; it was moderate to strong in force. Temperature had fallen several degrees generally, and at 8 am was about the average for the time of year. Sky was clear and the weather fine and bright. During the day the depression travelled very slowly E^m, and was apparently becoming filled up, the barometer was rising everywhere.

Meteorological Office,

116, Victoria Street, Westminster, S.W.

ROBERT H. SCOTT, Secretary.

CORRECTIONS AND ADDITIONS TO THE REPORTS FOR DEC^R 1877

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.	
				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.		
1 st	Swanburgh Head	29.12	43	SE	6	N	29.32	+36	45	42	0	ENE	5	b c	6	45	39	0.12	
"	Scilly	29.23	47	N	6	O	29.34	+03	49	46	+2	NNW	7	c	4	51	46	0.48	
"	Corunna	*	*	*	*	*	29.76	-21	50	*	-2	N	9	b c	4	*	*	*	
"	Scilly 2pm	-	-	-	-	-	30.10	-	50	45	-	NE	6	c	6	-	-	-	
2 nd	Scilly	29.64	51	NNW	7	C	29.98	+64	50	47	+1	NNNE	6	c	6	52	47	0.08	
"	Christiansand	29.34	39	SSE	2	b	29.35	-	37	23	-	SE	1	b	3	41	36	-	
"	Scilly	29.14	49	NE	5	C	30.24	+26	47	43	-3	ENE	4	c	4	51	46	0.01	
"	Corunna	*	*	*	*	*	30.21	-	51	*	-	NE	9	c	4	-	-	-	
"	Scilly 2pm	-	-	-	-	-	30.20	-	49	46	-	NNE	4	c	4	-	-	-	
4 th	Scilly	29.19	48	NNW	4	O	30.06	-18	47	46	0	Z	0	c	3	49	45	-	
"	Corunna	*	*	*	*	*	30.19	-02	44	*	-7	ENE	2	c	3	*	*	*	
"	Scilly 2pm	-	-	-	-	-	30.01	-	50	48	-	SW	2	c	2	-	-	-	
5 th	Scilly	30.01	49	SSW	2	O	29.94	-12	50	48	+3	ESE	5	c	4	50	48	-	
"	Corunna	*	*	*	*	*	30.09	-10	51	*	+7	N	3	c	1	*	*	*	
"	Scilly 2pm	-	-	-	-	-	29.84	-	51	49	-	SE	6	c	5	-	-	-	
6 th	Scilly	29.72	51	SSE	6	N	29.46	-48	54	52	+4	NNW	6	c	6	54	50	58	
"	Corunna	*	*	*	*	*	30.02	-07	57	*	+6	SW	3	c	1	*	*	*	
"	Scilly 2pm	-	-	-	-	-	29.61	-	52	47	-	NNW	7	c	6	-	-	-	
7 th	Scilly	29.72	52	WNW	7	b c	29.95	+49	49	47	-5	WSW	4	c	6	54	48	0.01	
"	Corunna	*	*	*	*	*	29.85	-17	55	*	-2	SW	3	c	1	*	*	*	
"	Scilly 2pm	-	-	-	-	-	29.93	-	52	48	-	N	4	c	6	-	-	-	
8 th	Scilly	29.96	50	NW	5	O	30.25	+30	48	44	-1	N	4	c	5	52	47	0.01	
"	Corunna	*	*	*	*	*	30.16	+31	57	*	+2	NE	3	c	1	*	*	*	
"	Scilly 2pm	-	-	-	-	-	30.25	-	51	47	-	SW	4	c	4	-	-	-	
9 th	Scilly	30.24	49	SW	4	O	30.07	-18	52	50	+4	S	6	c	5	53	47	-	
10 th	Scilly	29.93	52	S	7	O	29.79	-28	49	43	-3	S	5	c	6	53	43	0.31	
"	Corunna	*	*	*	*	*	29.69	-34	?	*	?	N	3	c	2	*	*	*	
"	Scilly 2pm	-	-	-	-	-	29.87	-	50	49	-	N	5	c	6	-	-	-	
11 th	Scilly	29.98	49	N	6	O	30.15	-36	47	44	-2	WSW	6	c	6	50	46	0.44	
"	Corunna	*	*	*	*	*	30.28	+59	?	?	?	E	9	c	7	*	*	*	
"	Scilly 2pm	-	-	-	-	-	30.08	-	51	48	-	SW	6	c	6	-	-	-	
12 th	Scilly	29.98	53	SSW	7	O	29.98	-22	50	46	+3	NNW	7	c	6	53	46	0.24	
"	Corunna	*	*	*	*	*	30.32	+04	47	*	?	NNW	3	c	5	*	*	*	
"	Scilly 2pm	-	-	-	-	-	30.02	-	49	44	-	NNW	6	c	6	-	-	-	
13 th	Scilly	29.04	49	WNW	6	C	30.03	+10	48	44	-2	NNW	6	c	4	50	44	0.07	
"	Scilly 2pm	-	-	-	-	-	30.03	-	48	44	-	NNW	7	c	5	-	-	-	
14 th	Scilly	30.08	47	NNW	7	C	30.34	+31	47	43	-1	NNW	5	c	5	48	43	0.09	
"	Scilly 2pm	-	-	-	-	-	30.43	-	48	44	-	NNW	4	b c	5	-	-	-	
15 th	Scilly	30.46	46	NNW	7	b c	30.49	+15	49	46	+2	SW	5	c	5	49	44	0.02	
"	Corunna	*	*	*	*	*	30.55	?	45	*	?	NE	6	c	1	*	*	*	
"	Scilly 2pm	-	-	-	-	-	30.47	-	52	49	-	SW	6	c	5	-	-	-	
16 th	Scilly	30.46	51	SW	7	O	30.54	+05	51	49	+2	NNW	6	c	5	52	45	0.05	
"	Scilly 2pm	-	-	-	-	-	30.50	-04	49	47	-2	N	5	c	5	52	48	-	
17 th	Scilly	30.53	51	NNW	6	O	30.43	-	51	51	-	N	6	c	5	52	46	0.02	
18 th	Scilly	30.48	52	NNW	5	O	30.61	+11	48	46	-1	Z	0	b	5	52	46	0.02	
"	Corunna	*	*	*	*	*	30.55	?	40	*	?	NE	1	b	5	*	*	*	
"	Scilly 2pm	-	-	-	-	-	30.62	-	51	46	-	Z	0	b c	5	-	-	-	
19 th	Scilly	29.61	47	WSW	2	O	30.56	-05	51	51	+3	NNW	4	c	4	53	46	0.13	
"	Corunna	*	*	*	*	*	30.52	-03	45	*	+5	N	1	c	5	*	*	*	
"	Scilly 2pm	-	-	-	-	-	30.60	-	51	51	-	NNNE	4	c	4	-	-	-	
20 th	Scilly	30.63	50	NE	4	O	30.65	+09	48	48	-3	NE	4	c	6	51	43	0.12	
"	Corunna	*	*	*	*	*	30.50	-02	49	*	+4	NE	2	c	5	*	*	*	
"	Scilly 2pm	-	-	-	-	-	30.62	-	49	48	-	NNW	4	c	6	-	-	-	
21 st	Scilly	30.62	49	NNW	4	O	30.56	-09	50	49	+2	N	4	c	5	52	48	0.02	
"	Corunna	*	*	*	*	*	30.50	00	48	*	+1	NE	9	c	5	*	*	*	
"	Scilly 2pm	-	-	-	-	-	30.52	-	51	50	-	NN	4	c	4	-	-	-	
22 nd	Scilly	30.52	51	NW	4	O	30.40	-16	50	50	0	NNW	4	c	4	51	49	0.01	
"	Corunna	*	*	*	*	*	30.44	-06	46	*	-2	NE	3	b	1	*	*	*	
"	Scilly 2pm	-	-	-	-	-	30.31	-	51	50	-	SW	5	c	4	-	-	-	
23 rd	Scilly	30.24	51	WSW	6	O	30.14	-23	49	46	-1	NNNE	6	c	5	51	49	0.17	
24 th	Scilly	30.33	47	N	5	C	30.08	-09	47	46	-2	NNW	7	c	6	49	46	0.05	
"	Corunna	*	*	*	*	*	30.35	-04	47	*	+3	E	7	c	1	*	*	*	
"	Londan	30.09	43	N	2	b c	30.16	2	41	37	+5	NE	2	b	4	46	36	-	
"	Scilly 2pm	-	-	-	-	-	29.95	-	50	47	-	NN	7	c	6	-	-	-	
25 th	Scilly	29.98	48	NNW	6	C	29.93	-15	45	42	-2	NN	5	c	5	54	44	0.01	
26 th	Scilly	29.72	46	NNW	5	C	29.60	-38	48	43	+3	NN	8	c	6	51	43	0.24	
"	Corunna	*	*	*	*	*	30.09	?	57	*	?	NN	3	c	5	*	*	*	
"	Scilly 2pm	-	-	-	-	-	29.65	-	46	44	-	NN	8	c	6	-	-	-	
27 th	Scilly	29.67	45	NN	3	C	29.77	+17	45	43	-3	Z	0	c	4	48	43	0.16	
"	Corunna	*	*	*	*	*	30.12	+08	58	*	+1	SW	3	c	1	*	*	*	
"	Scilly 2pm	-	-	-	-	-	29.81	-	45	43	-	N	3	c	4	-	-	-	
28 th	Scilly	29.89	46	NW	4	O	29.00	+23	50	50	+5	SSW	6	c	5	50	45	0.07	
"	Corunna	*	*	*	*	*	30.30	+18	53	*	-5	SW	3	c	1	*	*	*	
"	Scilly 2pm	-	-	-	-	-	29.90	-	53	53	-	WSW	6	c	5	-	-	-	
29 th	Haparanda	29.76	23	NE	7	O	29.81	-12	21	21	-2	E	4	c	*	23	21	0.08	
"	Harnosand	29.63	24	N	8	S	29.63	-08	22	21	-5	N	6	c	*	*	*	0.16	
"	Stockholm	28.98	27	N	6	S	29.50	+14	23	23	-1	NN	8	c	*	*	*	0.27	
"	Kisby	29.39	32	NNNE	9	S	29.56	+04	30	28	-1	NNW	6	c	*	*	*	0.07	
"	Christiansand	29.79	32	SSE	2	S	29.70	+03	33	32	+5	SE	2	c	3	34	3	-	
"	Skudonass	29.87	23	ESE	1	b	29.71	-03	32	29	0	SE	6	b c	4	2	2	-	
"	Oslo	29.83	25	N	4	b	29.57	-17	21	20	-12	SE	6	b c	2	18	18	-	

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

DATE	STATIONS.	† YESTERDAY EVENING.					8 A.M. TO DAY.									PAST 24 HOURS.		
		Barometer at 32° F. and Sea Level.	Temp. in shade.	WIND.		Weather.	BAROMETER.		SHADE TEMP.			WIND.		Weather.	Sea. (0 to 9.)	SHADE TEMP.		Amount of Rainfall.
				Dirac.	Force. (0 to 12).		Reading at 32° F. and Sea Level.	Difference from 8 a.m. yesterday.	Dry.	Wet.	Difference from 8 a.m. yesterday.	Dirac.	Force. (0 to 12).			Max.	Min.	
20 th	Stagen	29.82	32	NNE	3	b c	29.84	+ .09	31	29	+ 8	Z	0	b	0	34	2	-
"	Fant	29.87	31	"	1	b	"	"	27	27	- 6	SE	2	b c	#	?	25	-
12 th	Sailly	29.75	50	SSW	4	o	29.63	- .47	51	50	+ 1	WSW	6	o	6	53	50	0.23
4 th	Cornwall	"	"	"	"	"	30.14	- .16	55	"	+ 2	SW	6	c	1	"	"	"
"	Sailly 2pm	"	"	"	"	"	29.75	"	54	53	"	WSW	6	o	6	"	"	"
30 th	Sailly	29.76	53	WSW	6	o	29.73	+ .20	53	53	+ 2	SW	6	o m	4	52+	41	0.07
31 st	Sailly	29.61	49	NNW	7	o	30.25	+ .52	49	47	- 4	WN	5	c	5	53	46	0.18
"	Jersey	29.64	52	SW	4	a	30.17	+ .23	46	42	- 4	ZW	5	b c q	6	54	45	0.56
01	Cornwall	"	"	"	"	"	30.52	+ .29	38	"	- 19	NE	3	c	1	"	"	"
"	Sailly 2pm	"	"	"	"	"	30.14	"	52	51	"	s	7	o	6	"	"	"
CORRECTIONS																		
1 st	Stormway	"	"	"	"	"	"	"	"	"	"	"	"	"	"	43	"	"
"	Hingston	"	"	"	"	"	"	"	"	"	"	"	"	"	"	47	"	"
"	Liverpool	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	0.95
"	Rochester Point	29.08	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"
1 st	Mick	"	"	"	"	"	"	"	32	31	- 13	"	"	"	"	"	"	"
"	Plymouth	"	"	"	"	"	"	"	"	"	"	"	"	"	"	49	"	"
"	Garmouth	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	0.44
"	Jersey	"	"	"	"	"	29.80	+ .59	"	"	"	"	"	"	"	"	"	"
31	Mick	"	"	"	"	"	"	"	"	"	+ 10	"	"	"	"	"	"	"
"	Main	"	"	"	"	"	"	"	"	"	"	"	"	"	"	43	"	"
4 th	Dover	30.06	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"
"	Lumleigh Hd.	"	44	"	"	"	"	"	"	"	"	"	"	"	"	44	42	"
"	Portsmouth	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	0.04
2 ^d	Rochester Point	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	0.04
"	Hurst Castle	"	"	"	"	"	"	"	"	"	"	"	"	"	"	42	"	"
"	Dover	"	"	"	"	"	"	"	"	"	"	"	"	"	"	45	"	"
6 th	Thurso	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	0.06
"	Valencia	"	"	"	"	"	"	"	"	"	"	W	"	"	"	"	"	"
7 th	Mick	28.97	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"
8 th	Nottingham	29.45	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"
9 th	Stormway	"	43	"	"	"	"	"	"	"	"	"	"	"	"	"	"	0.12
10 th	York	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	0.22
11 th	Stormway	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"
12 th	Androssau	29.97	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"
13 th	Stockholm	30.17	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"
14 th	Stormway	"	"	"	"	"	29.73	+ .09	"	"	"	"	"	"	"	"	"	0.06
15 th	Thurso	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"
16 th	Holyhead	"	"	"	4	m	"	"	"	"	"	"	"	"	"	"	"	"
17 th	Portsmouth	20.23	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"
18 th	Hurst Castle	"	"	"	"	"	"	"	"	"	"	"	"	"	"	49	"	"
19 th	Garmouth	30.15	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"
20 th	Plymouth	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"
21 st	Dover	"	"	"	"	"	"	"	"	"	"	"	"	"	"	45	"	"
22 nd	Main	29.38	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"
23 rd	Shields	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"
24 th	Androssau	"	"	"	"	"	"	"	"	"	"	"	"	"	"	36	"	"
25 th	Jersey	"	44	"	"	"	"	"	"	"	"	"	"	"	"	39	"	0.16
26 th	Oxford	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	0.01
27 th	Holyhead	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"
28 th	Thurso	"	"	"	Z	0	"	"	"	"	"	"	"	"	"	39	"	"
29 th	Mick	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"
30 th	Garmouth	"	"	"	"	"	29.94	"	"	"	"	"	"	"	"	"	"	0.14
31 st	Nottingham	30.57	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"
01	Stockholm	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"
02	Hurst Castle	"	"	"	"	"	30.63	+ .06	"	"	"	"	"	"	"	42	31	"
03	Dover	"	"	"	"	"	"	"	"	"	"	"	"	"	"	42	"	"
04	Thurso	"	"	"	"	"	"	"	"	"	"	"	"	"	"	50	"	"
05	Cambridge	"	46	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"
06	Sailly	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	36
07	Albion	"	"	"	"	"	"	"	"	"	"	"	"	"	"	38	"	"
08	Rochester Point	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	0.05
09	York	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	Norman
10	Donaghadee	"	31	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"
11	Rochester Point	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	0.06
12	Main	29.55	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"
13	Thurso 2pm	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"
14	Shields	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	0.56
15	York	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	0.96
16	Liverpool	"	43	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"