

1164

METEOROLOGICAL OFFICE.

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DAILY WEATHER REPORTS.

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



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

*Davies & Co. Ltd., London.*



# DAILY WEATHER REPORT

JULY 1<sup>st</sup> 1878.

STATIONS.	† YESTERDAY EVENING.						8 A.M. TO DAY.										PART 24 HOURS.		
	Barometer at 32° F. and Sea Level.	Temp. in shade.	WIND.		Weather.	Barometer. Reading at 32° F. and Sea Level.	Difference from 8 a.m. yesterday.	SHADE TEMP.			WIND.		Weather.	Sea. (0 to 9.)	SHADE TEMP.		Amount of Rainfall.		
			Direc.	Force. (0 to 13).				Dry.	Wet.	Difference from 8 a.m. yesterday.	Direc.	Force. (0 to 13).			Max.	Min.			
Haparanda	29.61	51	SW	2	bc	29.44	- .31	51	50	0	S	2	0	*	63	48	-		
Hernösand	29.61	54	SW	4	c	29.46	- .41	53	49	- 2	NNW	6	bc	*	*	*	0.16		
Stockholm	29.68	55	S	2	0	29.45	- .44	56	55	- 1	SSW	4	p	*	*	*	0.04		
Wisby	29.71	56	SE	4	0	29.50	- .34	60	58	- 5	W	4	r	*	*	*	0.04		
Christiansund	29.78	49	NN	6	0	29.74	- .21	48	44	- 4	NN	4	0	4	54	43	0.12		
Skudesnaes	29.74	53	NNN	8	bc	29.66	- .14	53	48	- 5	NNN	8	bc	4	63	54	-		
Oxö (Tjandsand)	29.69	63	SSW	2	bc	29.58	- .34	64	56	- 8	NNN	2	bc	2	64	55	-		
Skagen (The Scaw)	29.67	66	Z	0	bc	29.46	- .36	64	59	- 5	NNN	2	0	2	75	52	0.16		
Fanö	29.71	66	NN	3	c	29.65	- .14	59	57	- 2	NNN	4	c	*	78	59	-		
Cuxhaven	29.76	71	N	2	0	29.73	- .05	68	64	- 4	NNN	4	c	*	78	64	0.01		
Sumburgh Head	29.99	53	N	4	0	29.99	- .04	50	48	- 2	NNE	4	c	3	56	45	-		
Stormoway	30.04	55	ENE	6	bc	30.05	+ .04	53	50	- 3	ENE	5	c	6	58	50	-		
Thurso	30.08	54	N	2	0	30.06	- .02	51	49	- 2	N	3	0	3	60	50	0.04		
Wick	30.05	53	N	4	0	30.03	- .04	52	48	- 4	N	4	0	2	59	48	-		
Nairn	30.05	55	ENE	1	bc	30.05	- .04	53	47	- 6	ENE	1	0	1	61	52	-		
Aberdeen	30.01	56	N	4	c	30.01	- .00	51	48	- 3	N	4	0	3	62	51	-		
Leith	29.98	57	ESE	4	bc	29.98	+ .02	56	53	- 3	ENE	2	0	*	64	52	-		
Shields	29.96	57	N	4	0	29.97	+ .05	54	52	- 2	N	2	0	2	60	51	-		
Scarborough	29.92	57	N	3	0	29.95	+ .06	55	52	- 3	N	2	0	3	61	54	-		
York	29.93	60	N	2	0	29.97	+ .09	55	52	- 3	N	2	0	*	66	53	-		
Nottingham	29.93	65	NNN	2	c	29.96	+ .08	58	53	- 5	N	3	0	*	72	55	-		
Ardrossan	29.94	72	NE	2	c	29.99	+ .03	57	53	- 4	E	1	c	1	76	54	-		
Greencastle	29.96	70	NE	2	bc	29.95	+ .04	64	59	- 5	E	2	bc	*	73	52	-		
Donaghadee	29.94	62	NNE	2	bc	29.99	+ .05	66	63	- 3	ENE	4	bc	3	67	62	-		
Kingstown	29.93	63	N	1	c	29.98	+ .06	59	56	- 3	E	2	c	3	64	58	0.04		
Holyhead	29.91	63	NNE	2	c	29.93	+ .05	59	56	- 3	ENE	3	bc	3	68	56	-		
Liverpool (Bidston)	29.90	65	NE	1	0	29.95	+ .06	59	53	- 6	ENE	1	bc	1	69	54	-		
Valencia	29.90	60	SSW	1	c	29.91	+ .08	62	59	- 3	Z	0	bc	1	67	52	-		
Roche's Point	29.93	62	SW	2	bc	29.91	+ .07	58	52	- 6	N	2	c	2	69	55	-		
Pembroke	29.90	59	NNN	2	0	29.91	+ .08	61	59	- 2	Z	0	c	1	69	58	-		
Portishead	29.86	67	SW	3	0	29.90	+ .08	59	58	- 1	ESE	5	r	4	79	57	0.71		
Scilly	29.94	67	SE	2	c	29.89	- .05	59	57	- 2	E	4	p	2	66	56	0.09		
Plymouth	29.92	63	W	1	bc	29.93	+ .11	60	58	- 2	SW	2	c	*	68	50	0.07		
Hurst Castle	29.87	68	N	1	c	29.92	+ .13	64	62	- 2	W	1	c	2	67	58	0.19		
Dover	29.83	62	E	1	0	29.92	+ .18	67	60	- 7	NNE	1	bc	1	67	58	-		
London	29.85	60	E	1	f	29.92	+ .08	61	58	- 3	N	1	0	*	69	54	0.98		
Oxford	29.85	60	E	1	f	29.93	+ .12	57	54	- 3	E	2	0	*	70	55	-		
Cambridge	29.88	69	NNE	1	bc	29.99	+ .15	60	57	- 3	N	1	c	*	74	52	-		
Yarmouth	29.85	63	NNN	3	bc	29.91	+ .11	58	55	- 3	NNN	2	c	3	66	55	0.05		
The Helder	29.81	60	E	3	bc	29.91	+ .10	62	59	- 3	NNN	1	c	*	*	*	0.04		
Cape Grim Nez	29.86	59	SW	3	f	29.93	+ .16	63	61	- 2	N	1	bc	0	68	57	-		
Jersey	29.98	60	NNN	3	bc	29.98	+ .12	63	60	- 3	W	2	bc	2	63	53	0.71		
Brest	30.02	60	SW	3	0	29.95	- .04	59	57	- 2	SSE	3	0	0	68	57	-		
L'Orient	29.99	64	SSW	2	bc	29.95	- .04	61	59	- 2	SE	3	0	2	70	55	-		
Rochefort	30.08	70	NNN	3	bc	30.00	- .06	66	61	- 5	ESE	4	bc	3	79	55	-		
Biarritz	29.99	66	ENE	2	bc	29.91	- .12	68	63	- 5	SSW	1	bc	3	75	59	-		
Corunna	29.95	65	W	3	bc	29.99	+ .10	66	57	- 9	W	1	bc	*	*	*	-		
Brussels	29.89	61	W	2	c	29.89	+ .12	61	59	- 2	W	2	0	*	63	57	-		
Charleville	29.87	60	W	2	c	29.87	+ .13	60	57	- 3	SW	1	W	*	*	*	-		
Paris	29.95	65	W	3	bc	29.99	+ .10	66	57	- 9	W	1	bc	*	*	*	-		
Lyons	29.95	65	W	3	bc	29.99	+ .10	66	57	- 9	W	2	bc	*	*	*	-		
Toulon	29.95	71	WSW	4	bc	29.93	- .05	73	64	- 9	W	1	bc	3	57	64	-		

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

Bar.	Dry.	Wet.	Wind.	Wes.	Sea.	Bar.	Dry.	Wet.	Wind.	Wes.	Sea.
Skudesnaes	29.76	59	SW	6	bc	3	Valencia	29.90	60	SSW	1
Thurso	30.08	55	N	2	0	*	Scilly	29.94	67	SE	2
Scarborough	29.92	57	N	3	0	*	London	29.85	60	E	1
Greencastle	29.96	70	NE	2	bc	*	Rochefort	30.08	70	NNW	3
Holyhead	29.91	63	NNE	2	c	*					

## EXPLANATION OF COLUMNS.

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

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

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

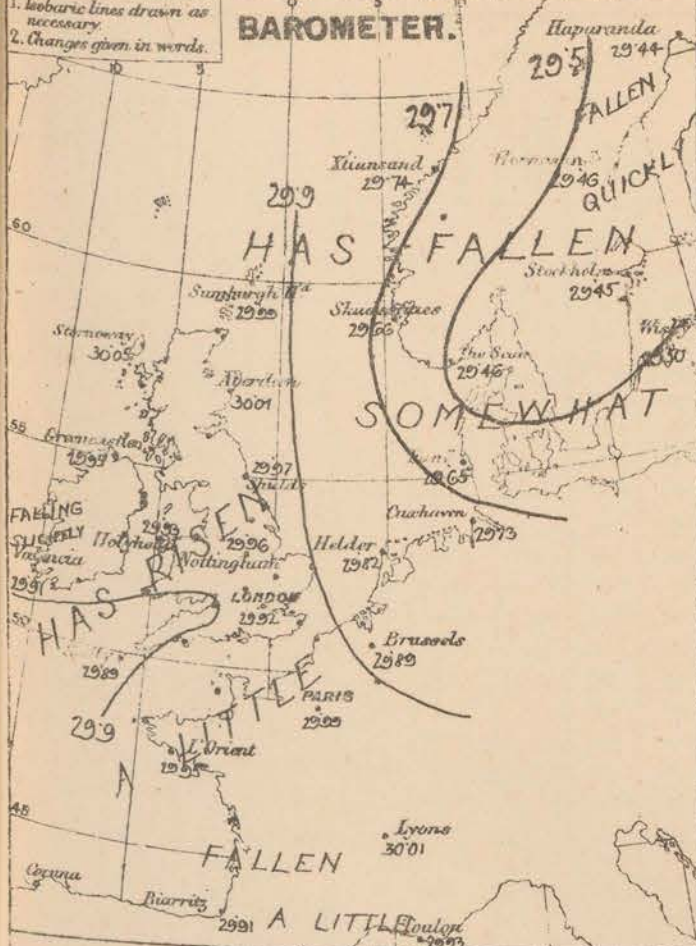
N E.—The wind is said to "veer" when its direction changes with the sea, and to "back" when it shifts in the opposite direction.



# WEATHER CHARTS for 8 a.m. on Monday 1<sup>st</sup> JULY 1878.

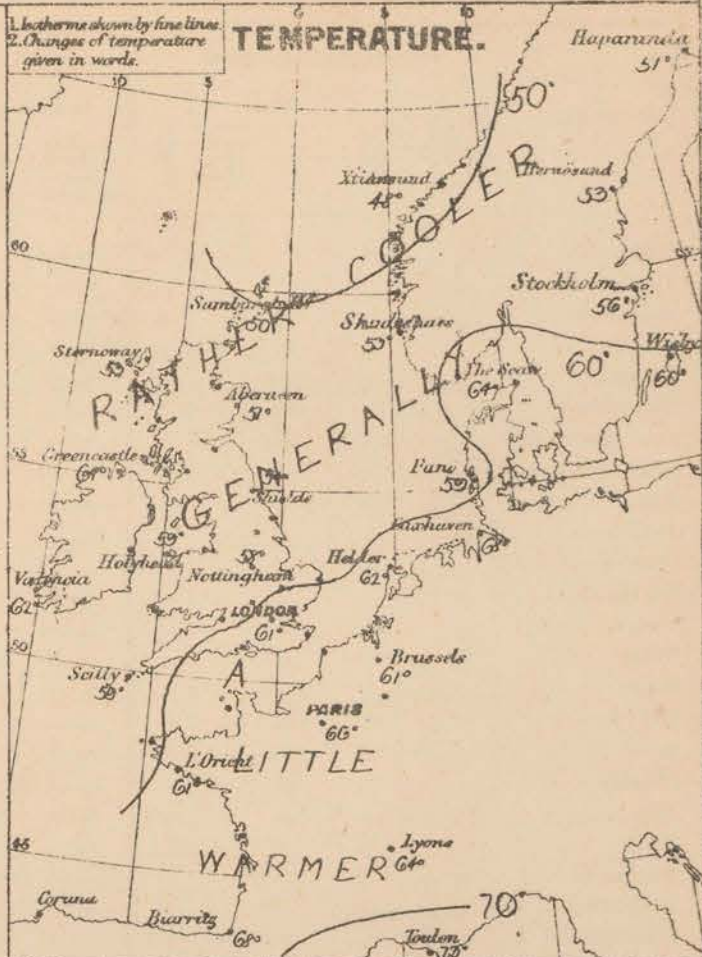
1. Isobaric lines drawn as necessary.
2. Changes given in words.

## BAROMETER.



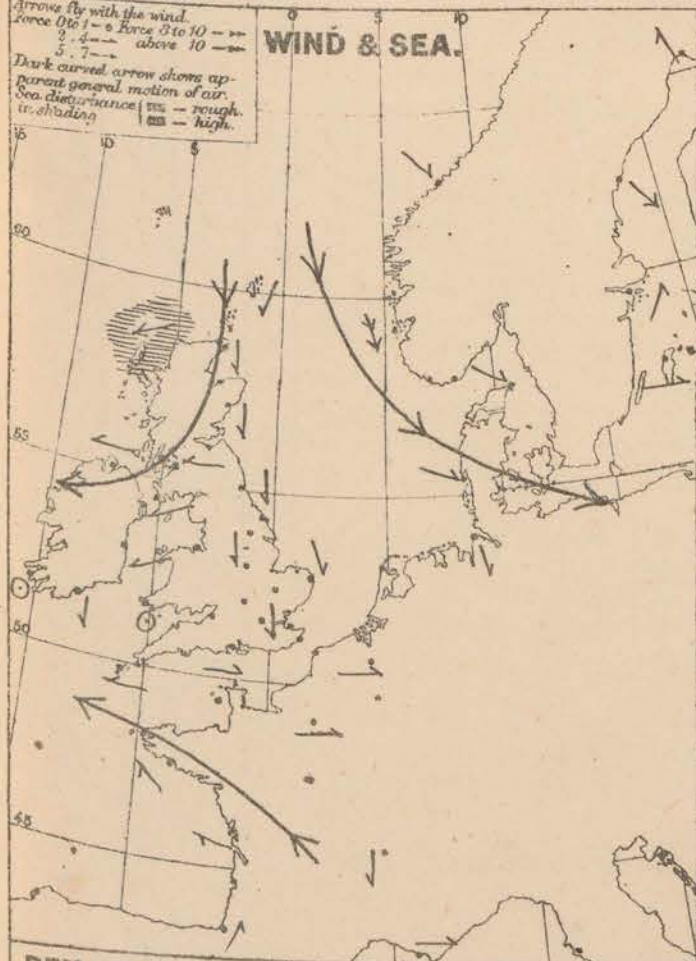
1. Isotherms shown by fine lines.
2. Changes of temperature given in words.

## TEMPERATURE.



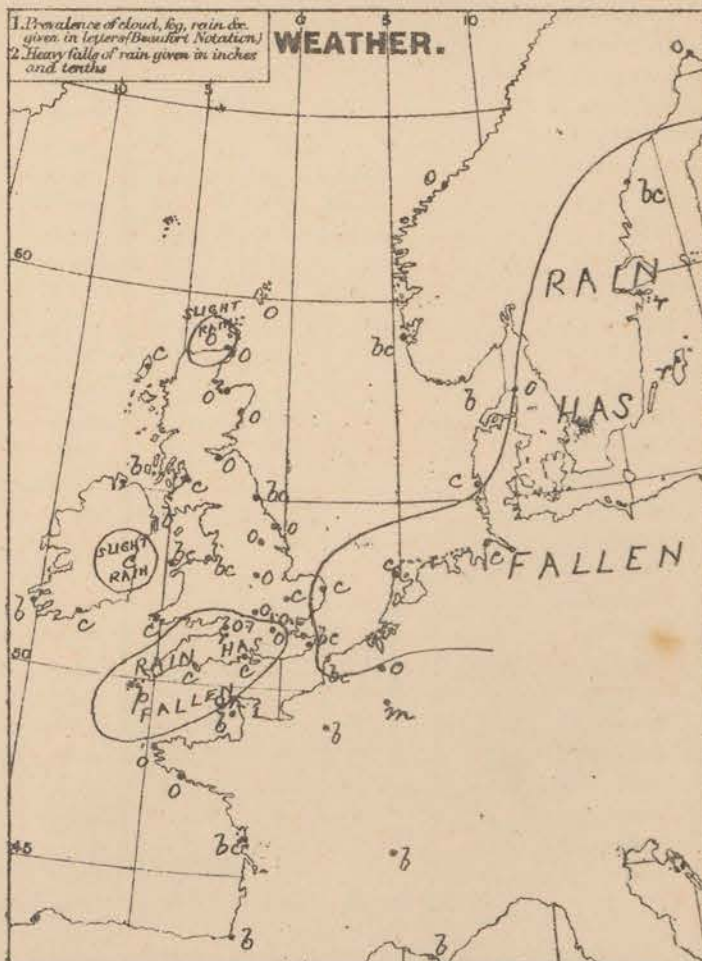
1. Arrows fly with the wind. Force 0 to 10 — 11 to 20 — 21 to 30 — 31 to 40 — 41 to 50 — 51 to 60 — 61 to 70 — 71 to 80 — 81 to 90 — 91 to 100 —
2. Dark curved arrow shows apparent general motion of air. Sea disturbance: — rough, — high.

## WIND & SEA.



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

## WEATHER.



## REMARKS.

Weather is clear at many of the Irish and French stations, but is cloudy or overcast in most other places, with rain at Portland. Thunderstorms occurred over the south of England yesterday, the rainfall both at Jersey and in London was heavy; in London 0.62 in. fell between 12.40 and 1 p.m. and the total amount collected was 0.98 in. Temperature has fallen generally; it varies over these Islands from 67° at Dover to 51° at Aberdeen. The maximum readings yesterday were much lower than of late in most places; at Portland the thermometer in the shade rose to 79° at Ardnam, to 76° at Cambridge to 74° and in London to 69°. Wind is N<sup>W</sup> to NE<sup>W</sup> over the North Sea and over most of our coasts, but in the west of France and south west of England it is SE<sup>W</sup>. Sea is slight or smooth except in the Minch.

Barometrical Indications. Pressure is increasing over the greater part of these Islands and France, but is falling slightly on our south-west coast, and quickly over the south of Scandinavia. A well-marked depression appears to be lying over the south of Sweden.

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

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

R.H. SCOTT.  
Secretary.



# DAILY WEATHER REPORT

JULY 2<sup>ND</sup>

1878.

STATIONS.	† YESTERDAY EVENING.						8 A.M. TO DAY.										LAST 24 HOURS.		
	Barometer at 32° F. and Sea Level.	Temp. in shade.	WIND.		Weather.	BAROMETER.		SHADE TEMP.			WIND.		Weather.	Sea. (0 to 9.)	SHADE TEMP.		Amount of Rainfall.		
			Direc.	Force. (0 to 15).		Reading at 32° F. and Sea Level.	Difference from 8 a.m. yesterday.	Dry.	Wet.	Difference from yesterday.	Direc.	Force. (0 to 15).			Max.	Min.			
Haparanda ...	29.39	52	S	2	r	29.43	-01	44	42	-7	N	6	r	*	57	39	0.55		
Hernösand ...	29.41	54	NNN	4	δ	29.41	-05	53	46	0	NNN	6	δ	*	*	*	-		
Stockholm ...	29.46	54	N	2	c	29.46	+01	55	49	-1	NNN	4	c	*	*	*	0.32		
Wisby ...	29.48	55	ENE	6	0	29.46	-04	56	52	-4	NN	8	δ	*	*	*	0.63		
Christiansund ...	29.76	46	NN	6	0	29.68	-06	49	44	+1	NNN	5	δc	5	?	39	0.24		
Skudesnaes ...	29.65	50	NNN	9	δ	29.64	-02	52	46	-1	NNN	8	δ	4	54	50	-		
Oxö (Xtiansand)	29.60	59	ESE	2	c	29.59	+09	58	51	-6	ENE	4	c	3	64	52	-		
Skagen (The Scaw)	29.55	61	NNE	3	δ	29.58	+12	58	52	-6	NE	3	c	3	70	54	-		
Fanö ...	29.62	60	NNN	5	c	29.62	-03	58	56	-1	NW	14	c	*	32	34	-		
Cuxhaven ...	29.76	62	NN	5	c	29.70	-08	59	57	-9	NN	4	0	*	48	55	-		
Sumburgh Head	29.99	50	NNE	4	c	29.91	-08	50	47	0	NNE	4	c	4	55	46	-		
Stornoway	30.06	54	E	5	c	29.98	-07	51	50	-2	NNN	4	c	4	55	48	-		
Thurso ...	30.05	53	NNN	2	0	29.97	-09	51	49	0	NW	2	0	3	55	46	0.01		
Wick ...	30.03	53	N	3	0	29.97	-06	52	48	0	NNN	3	0	2	56	46	-		
Nairn ...	30.06	54	ENE	2	0	29.98	-07	52	50	-1	NN	1	c	2	56	49	-		
Aberdeen ...	30.00	54	N	3	c	29.94	-07	50	48	-1	N	3	0	3	56	48	0.01		
Leith ...	29.98	54	ESE	3	c	29.91	-05	53	52	-3	NE	1	c	*	59	50	-		
Shields ...	29.98	55	N	4	0	29.93	-04	53	49	-1	N	4	0	4	59	48	-		
Scarborough	29.95	55	N	4	0	29.91	-04	53	49	-2	NE	4	0	4	60	51	0.06		
York ...	29.96	56	N	1	0	29.92	-05	55	51	0	N	2	0	*	63	49	-		
Nottingham ...	29.94	63	SE	2	δc	29.91	-05	58	52	0	NNN	3	0	*	70	50	-		
Ardrossan ...	29.95	62	NNN	1	c	29.96	-03	55	50	-2	ENE	1	0	1	66	53	-		
Greencastle ...	29.96	61	NE	2	δ	29.93	-02	58	55	-6	NN	2	c	*	68	50	-		
Donaghadee ...	29.97	59	ESE	3	δc	29.99	00	55	52	-11	ES	3	c	2	62	53	-		
Kingstown ...	29.97	60	ENE	3	δ	29.95	-03	57	52	-2	ENE	4	δc	4	61	55	-		
Holyhead ...	29.93	60	NNE	4	δ	29.92	-01	57	53	-2	ENE	5	δ	4	65	52	-		
Liverpool (Bidston)	29.89	63	ENE	1	0	29.92	-03	54	50	-5	ENE	2	0	1	68	52	-		
Valencia ...	29.91	61	ESE	1	r	29.93	+02	61	59	-1	L	0	δcm	1	69	51	0.14		
Roche's Point...	29.91	64	SE	2	c	29.92	+01	58	54	0	N	2	δ	2	71	56	-		
Pembroke ...	29.88	65	N	1	δc	29.85	-06	59	57	-2	ESE	1	cm	1	70	57	-		
Portishead	29.88	63	NE	4	r	29.86	-04	54	53	-5	NNE	5	0	4	68	51	0.85		
Scilly ...	29.86	58	E	2	0	29.88	-04	60	58	+1	NNN	2	c	2	64	57	0.19		
Plymouth ...	29.87	63	SE	2	0	29.76	-07	58	57	-2	N	2	or	*	69	56	0.14		
Hurst Castle ...	29.88	66	SW	3	δc	29.84	-08	58	58	-6	E	4	r	3	68	55	0.38		
Dover ...	29.90	62	E	1	0	29.84	-08	57	54	-10	NNE	3	cp	1	68	57	0.03		
London ...	29.90	63	N	2	og	29.86	-06	58	52	-6	NNE	1	og	*	67	52	0.12		
Oxford ...	*	*	*	*	*	29.86	-07	53	57	-4	NE	2	0	*	63	50	-		
Cambridge ...	29.91	65	N	1	c	29.88	-11	58	54	-2	N	1	0	*	69	48	-		
Yarmouth ...	29.93	60	NNN	2	δc	29.86	-05	56	53	-2	NNE	3	cd	3	61	52	-		
The Helder ...	*	*	*	*	*	29.80	-02	58	52	-4	NW	1	c	*	*	*	-		
Cape Gris Nez																			
Jersey ...	29.89	60	L	0	r	29.86	-12	60	58	-3	N	2	δc	2	67	53	0.71		
Brest ...	29.90	?	WSW	4	0	29.88	-07	59	57	0	SE	1	0	3	64	54	0.35		
L'Orient ...	29.90	63	SW	3	c	29.88	-07	59	55	-2	WSW	2	r	2	73	54	0.16		
Rochefort ...	30.01	70	NN	4	δc	30.01	+01	64	59	-2	WSW	5	c	3	79	54	-		
Biarritz ...	30.02	70	N	3	c	30.07	+05	64	59	-4	WSW	3	0	3	75	61	-		
Corunna ...	*	*	*	*	*	30.12	+11	67	*	+1	SW	3	0	?	*	*	*		
Brussels ...	*	*	*	*	*	29.82	-07	55	52	-6	E	1	r	*	71	54	0.12		
Charleville ...	*	*	*	*	*	29.80	-07	62	*	+5	E	1	0	*	*	*	*		
Paris ...	29.88	72	SW	1	c	29.87	-12	62	57	-4	WSW	3	c	*	*	*	-		
Lyons ...	*	*	*	*	*	29.96	-05	72	*	+8	NE	4	0	*	*	*	*		
Toulon ...	29.91	73	N	3	δ	29.90	-03	68	64	-5	NW	4	δ	3	79	?	-		

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

	Bar.	Dry.	Wet.	Wind.	Wen.	Sea.		Bar.	Dry.	Wet.	Wind.	Wen.	Sea.		
Skudesnaes ...	29.65	54	48	NNN	9	δ	4	Valencia .....	29.89	69	62	N	2	cm	3
Thurso .....	30.07	53	51	N	3	0	3	Scilly .....	29.89	58	55	ESE	5	r	4
Scarborough ...	29.95	58	53	N	2	0	3	London .....	29.92	65	61	2	0	og	*
Greencastle ...	29.97	65	59	ENE	2	δ	*	Rochefort ...	29.98	70	68	NNN	4	0	3
Holyhead .....	29.95	61	56	NE	5	δ	4								

Pressure is changing very little, but is inclined to decrease at Valencia. Weather is fine in the north-west.

## EXPLANATION OF COLUMNS.

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

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

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







# DAILY WEATHER REPORT

JULY 3<sup>RD</sup>

1878.

STATIONS.	† YESTERDAY EVENING.					8 A.M. TO DAY.										PAST 24 HOURS.		
	Barometer at 32° F. and Sea Level.	Temp. in shade.	WIND.		Weather.	BAROMETER.		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 ...	29.53	47	NE	6	r	29.56	+ .13	44	40	0	NE	6	0	*	50	37	0.20	
Hernösand ...	29.52	47	NNH	2	r	29.56	+ .15	50	46	— 3	NNH	6	0	*	*	*	0.16	
Stockholm ...	29.52	51	NNE	4	0	29.59	+ .13	57	51	+ 2	NNE	2	0	*	*	*	—	
Wisby ...	29.53	56	NNH	4	bc	29.57	+ .11	57	52	+ 1	ENE	4	0	*	*	*	—	
Christiansund ...	29.70	47	N	4	c	29.75	+ .07	52	45	+ 3	N	3	c	3	?	41	—	
Skudesnaes ...	29.56	50	NNH	8	b	29.63	— .01	59	48	+ 7	ENE	2	b	2	?	50	—	
Oxö (Ålön) ...	29.50	59	SE	2	bc	29.58	— .01	49	45	— 9	N	6	0	3	60	46	0.04	
Skagen (The Scaur)	29.53	60	ENE	2	0	29.50	— .08	57	52	— 1	E	6	0	6	70	50	0.12	
Fanö ...	29.61	54	NW	4	c	29.57	— .05	56	52	— 2	N	6	c	*	63	52	—	
Cuxhaven ...	29.73	60	NW	2	c	29.68	— .02	59	57	0	NNH	3	c	*	61	52	0.01	
Samburgh Head	29.84	50	N	4	c	29.90	— .01	50	47	0	N	4	c	4	54	42	—	
Stornoway	29.93	56	N	4	c	29.98	0.00	52	50	+ 1	NE	3	0	2	59	49	0.05	
Thurso ...	29.92	54	NNH	2	0	29.96	— .01	52	49	+ 1	NNH	2	c	2	59	48	0.04	
Wick ...	29.91	53	N	3	0	29.95	— .02	54	49	+ 2	N	3	0	2	59	41	—	
Nairn ...	29.93	55	NNH	1	0	29.98	0.00	53	50	+ 1	NNH	1	0	2	61	50	—	
Aberdeen ...	29.89	54	N	2	a	29.94	0.00	49	46	— 1	N	3	0	3	57	46	—	
Leith ...	29.87	58	E	1	0	29.93	0.00	53	51	0	ENE	2	c	*	61	49	—	
Shields ...	29.91	55	N	3	c	29.92	— .01	53	49	0	N	4	c	4	56	48	0.08	
Scarborough	29.90	54	N	3	bc	29.90	— .01	53	50	0	N	3	mv	4	57	50	—	
York ...	29.91	56	N	3	0	29.91	— .01	54	51	— 1	NNH	3	a	*	60	49	0.03	
Nottingham ...	29.90	58	NNE	3	0	29.94	+ .03	56	52	— 2	NNH	1	0	*	66	48	—	
Ardrossan ...	29.92	60	NNH	1	0	29.94	— .02	57	53	+ 2	NNH	2	bc	1	60	54	—	
Greencastle ...	29.98	58	N	3	b	30.01	+ .08	58	54	0	NNE	2	b	*	61	52	0.07	
Donaghadee ...	29.94	54	S	2	0	29.98	— .01	58	54	+ 3	N	5	b	3	60	53	—	
Kingstown ...	29.97	59	E	1	0	30.03	+ .08	56	54	— 1	NNH	4	0	3	63	53	—	
Holyhead ...	29.95	57	N	4	0	29.99	+ .07	57	55	0	NNH	4	c	3	61	54	0.01	
Liverpool (Bidston)	29.90	58	NNH	1	c	29.93	+ .01	57	53	+ 3	NNH	2	0	1	62	52	—	
Valencia ...	30.00	64	NNH	3	b	30.13	+ .20	61	56	0	N	2	c	2	70	57	—	
Roche's Point...	30.02	67	NNH	4	c	30.08	+ .16	58	54	0	N	3	b	0	70	53	—	
Pembroke ...	29.91	57	N	3	?	30.00	+ .15	58	54	— 1	N	2	b	1	61	53	0.05	
Portishead ...	29.86	63	N	3	b	29.97	+ .11	57	54	+ 3	NNH	3	0	2	66	52	—	
Seilly ...	29.93	61	NNE	4	0	30.04	+ .19	60	59	0	NNH	4	c	2	64	57	—	
Plymouth ...	29.89	61	NNE	2	0	30.00	+ .14	59	56	+ 1	NE	2	0	*	67	54	—	
Hurst Castle ...	29.87	57	N	2	c	29.93	+ .09	56	55	— 2	N	2	bc	1	58	53	0.18	
Dover ...	29.84	58	NE	3	c	29.90	+ .06	59	52	+ 2	NNH	3	c	1	60	57	0.04	
London ...	29.86	59	N	2	0	29.92	+ .06	55	52	0	N	2	0	*	59	51	0.02	
Oxford ...	*	*	*	*	*	29.94	+ .08	55	55	+ 2	N	3	0	*	62	49	0.03	
Cambridge ...	29.88	56	N	1	0	29.90	+ .02	56	53	— 2	NNH	1	0	*	61	47	—	
Yarmouth ...	29.87	56	N	3	c	29.88	+ .02	52	50	— 4	NNH	2	c	3	59	48	0.05	
The Helder ...	*	*	*	*	*	29.78	— .02	56	51	— 2	NNH	2	c	*	*	*	—	
Cape Gris Nez	29.84	55	NE	3	0	29.92	+ .08	55	50	— 2	N	4	bc	3	59	54	—	
Jersey ...	29.88	60	NNH	2	bc	30.01	+ .15	59	57	— 1	NNH	3	om	3	64	53	—	
Brest ...	29.98	59	N	3	0	30.11	+ .23	59	57	0	NNH	3	0	3	64	52	—	
L'Orient ...	29.90	61	NNH	1	c	30.06	+ .18	59	55	0	NNH	3	mv	2	70	54	0.04	
Rochefort ...	29.97	64	N	5	0	30.10	+ .09	61	59	— 3	NNH	5	bc	3	72	52	—	
Biarritz ...	30.04	66	NNH	4	0	30.12	+ .05	64	59	0	NNH	5	*	3	58	57	0.12	
Corunna ...	*	*	*	*	*									*	*	*	*	
Brussels ...	*	*	*	*	*	29.85	+ .03	52	50	— 3	N	2	0	*	59	51	0.12	
Charleville ...	*	*	*	*	*	29.72	— .08	55	*	— 7	N	3	c	*	*	*	*	
Paris ...	29.79	63	N	2	0	29.91	+ .04	56	52	— 6	N	4	c	*	*	*	0.12	
Lyons ...	*	*	*	*	*	29.82	— .14	67	*	— 5	S	2	0	*	*	*	*	
Toulon ...	29.83	72	NNH	6	c	29.82	— .08	63	57	— 5	NNH	6	c	6	84	?	—	

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

	Bar.	Dry.	Wet.	Wind.	Wes.	Sea.		Bar.	Dry.	Wet.	Wind.	Wes.	Sea.		
Skudesnaes ...	29.61	52	46	NNH	18	0	4	Valencia .....	29.98	68	60	NNE	3	0m	3
Thurso .....	29.95	59	54	N	3	0c	3	Seilly .....	29.90	63	61	NNH	4	0	2
Scarborough ...	29.91	55	51	N	3	0	3	London .....	29.87	58	55	NNE	2	0	*
Greencastle ...	29.96	60	55	N	2	0	*	Rochefort ...	30.01	68	63	NNH	16	0c	3
Holyhead .....	29.96	58	53	N	5	0	4								

The mercury is rising slowly except in the NE. The wind remains N<sup>W</sup> but the weather is finer than it was this 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.

\* 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.

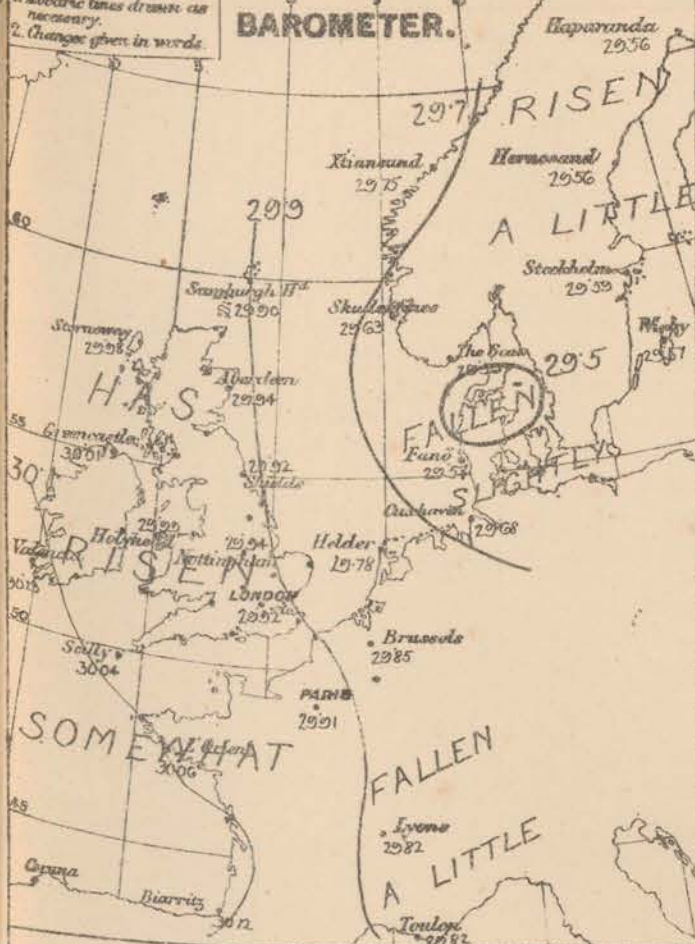
N.B.—The wind is said to "veer" when its direction changes with the sun, and to "back" when it shifts in the opposite direction.



# WEATHER CHARTS for 8 a.m. on Wednesday 3<sup>rd</sup> JULY 1878.

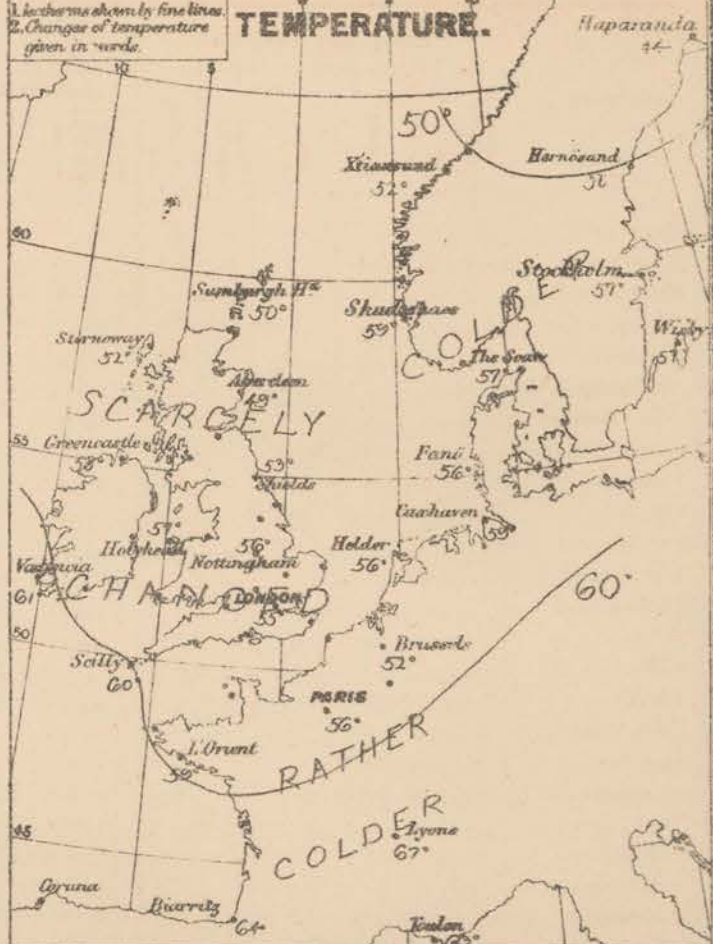
1. Isobaric lines drawn as necessary.
2. Changes given in words.

## BAROMETER.



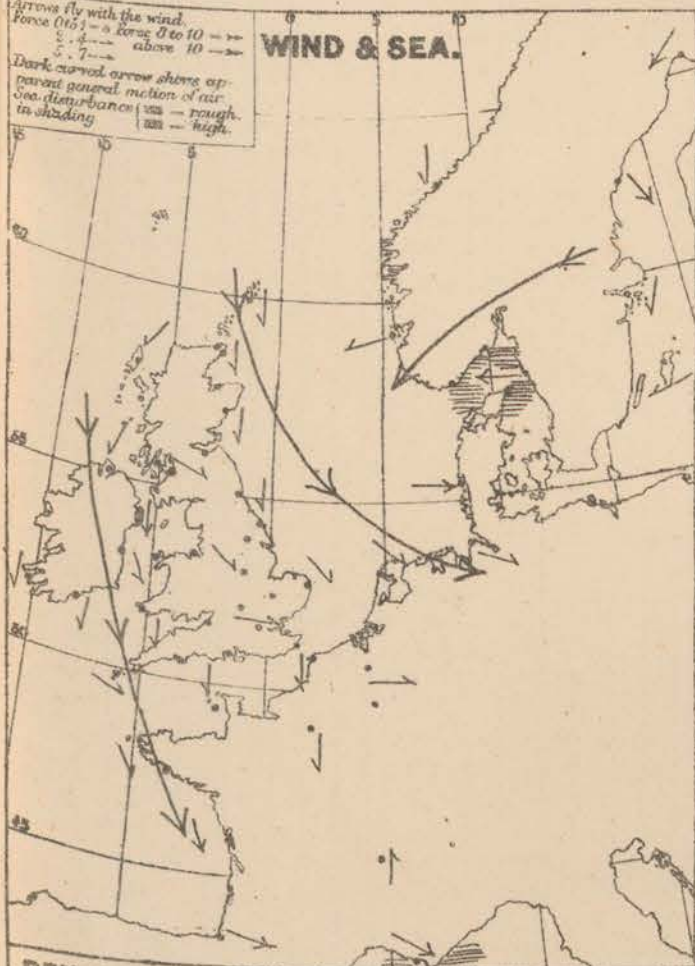
1. Isotherms shown by fine lines.
2. Changes of temperature given in words.

## TEMPERATURE.



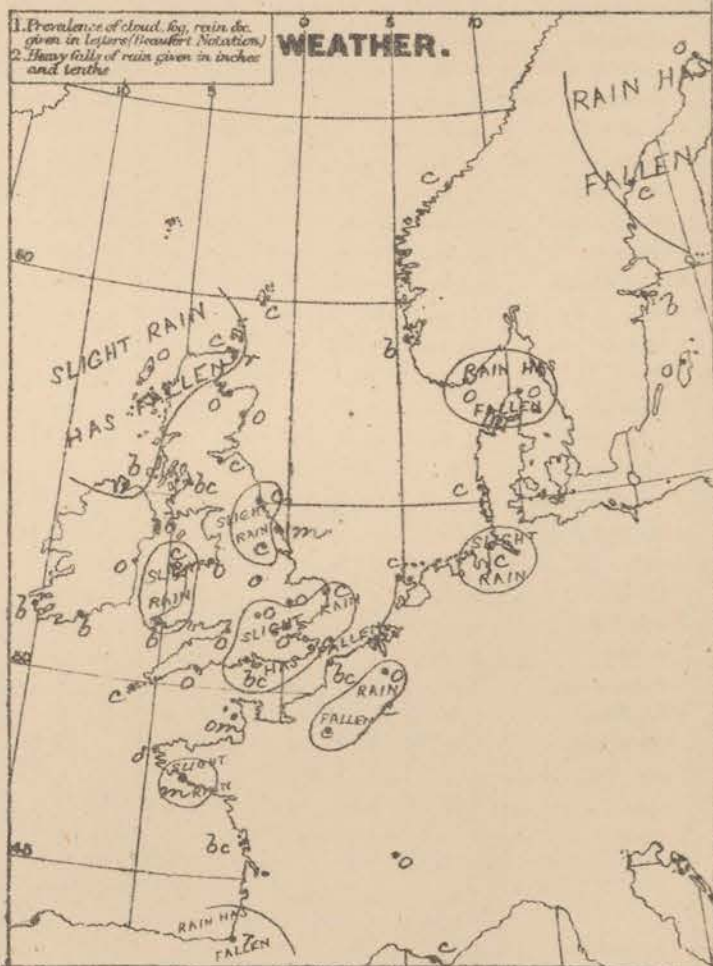
1. Arrows fly with the wind. Force 0 to 10 ——— above 10 ———
2. Dark arrow shows apparent general motion of air. Sea disturbance (rough in shading) ——— high.

## WIND & SEA.



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

## WEATHER.



## REMARKS.

Weather is fine over Ireland but is overcast or cloudy in nearly all other parts; mist is reported from a few stations, rain from Wick and Biarritz. Rain has fallen in small amounts over the greater part of the Kingdom. Temperature has changed very little except in the east of France where it has fallen; it still varies over these Islands from 61° at Valentia to 52° at Yarmouth and 49° at Aberdeen; during yesterday the thermometer in the shade reached 70° only at Valentia and Roches Pt., the maximum elsewhere being several degrees lower. In London the maximum was 59° or 25 lower than that on last Tuesday, and 32° lower than on Wednesday last. Wind is N<sup>ly</sup> on most of our coasts, but draws into NW over France; it is moderate in force generally. In North Germany a fresh W<sup>ly</sup> and in the Skager Rack fresh E<sup>ly</sup> wind is reported. Sea is slight to smooth. Barometrical Indications. A well-defined small depression lies over the north of Denmark, and the barometer is falling over that country and North Germany but in all other places it is rising. The highest readings lie off our south west coasts.

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

JULY 4<sup>TH</sup>

1878.

STATIONS.	† YESTERDAY EVENING.						8 A.M. TO DAY.										PAST 24 HOURS.		
	Barometer at 32° F. and Sea Level.	Temp. in shade.	WIND.		Weather.	Barometer at 32° F. and Sea Level.	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 ...	29.62	45	E	2	†	29.67	+ 11	51	48	+ 7	SE	2	0	*	52	41	0.08		
Hernösand ...	29.66	49	SSW	2	0	29.70	+ 14	55	50	+ 5	Z	0	0	*	*	*	0.04		
Stockholm ...	29.68	53	NNE	2	0	29.76	+ 17	55	50	- 2	NNE	2	0	*	*	*	-		
Wisby ...	29.59	55	S	4	0	29.86	+ 29	57	52	0	ENE	6	0	*	*	*	0.98		
Christiansund ...	29.87	49	N	2	0	29.78	+ 03	50	45	- 2	SE	1	0	*	?	41	-		
Skudesnaes ...	29.76	49	NW	8	c	29.85	+ 22	57	45	- 8	NNW	6	0	3	59	48	-		
Oxö (Tjäsand) ...	29.71	59	WSW	2	0	29.75	+ 17	56	52	+ 7	SW	2	0	2	59	?	-		
Skagen (The Skaw) ...																			
Fanö ...	29.72	55	NNW	6	c	29.86	+ 29	57	54	+ 1	NNW	6	0	*	63	52	-		
Cuxhaven ...	29.77	60	NW	3	c	29.88	+ 20	60	55	+ 1	N	5	0	*	61	52	0.27		
Sumburgh Head ...	29.96	49	N	4	c	29.80	- 10	57	51	+ 1	SW	4	0	4	53	46	0.01		
Stornoway ...	30.02	56	S	2	0	29.92	- 06	55	54	+ 3	W	4	0	3	59	49	-		
Thurso ...	30.02	56	NNW	1	c	29.93	- 03	56	54	+ 4	SW	2	0	2	60	46	-		
Wick ...	29.98	53	NNW	2	0	29.94	- 01	56	52	+ 2	SW	2	0	1	58	38	-		
Nairn ...	30.02	57	NW	1	0	29.97	- 01	57	53	+ 4	NW	1	0	2	61	43	-		
Aberdeen ...	30.00	55	N	2	c	29.99	+ 05	57	52	+ 8	SSW	1	0	2	57	40	-		
Leith ...	29.98	58	E	2	0	30.00	+ 07	57	53	+ 4	WSW	4	0	*	62	47	-		
Shields ...	30.02	55	N	3	0	30.04	+ 12	58	54	+ 5	NW	3	0	2	58	44	-		
Scarborough ...	30.02	54	NNW	4	0	30.07	+ 17	55	50	+ 2	SW	2	0	3	57	46	0.01		
York ...	30.03	58	N	2	0	30.08	+ 17	57	54	+ 3	W	1	0	*	60	41	-		
Nottingham ...	30.06	59	NW	1	0	30.10	+ 16	65	59	+ 9	NW	3	0	*	65	41	0.10		
Ardrossan ...	30.04	63	NNW	3	0	30.05	+ 11	57	54	0	SW	2	0	2	66	53	-		
Greencastle ...	30.08	59	NNW	1	0	30.05	+ 04	56	54	- 2	SW	2	0	*	64	53	-		
Donaghadee ...	30.07	60	N	5	0	30.09	+ 11	58	55	0	W	3	0	2	65	50	-		
Kingstown ...	30.10	64	SE	3	0	30.12	+ 09	58	55	+ 2	NW	4	0	2	64	56	-		
Holyhead ...	30.08	60	NNW	3	0	30.12	+ 13	59	57	+ 2	SW	2	0	1	62	53	-		
Liverpool (Bidston) ...	30.04	60	NNW	2	0	30.12	+ 19	60	53	+ 3	W	1	0	1	61	52	-		
Valencia ...	30.17	62	NW	2	c	30.11	- 02	60	58	- 1	S	4	0	4	65	50	-		
Roche's Point ...	30.14	60	NNW	3	c	30.15	+ 07	61	57	+ 3	WSW	2	0	2	69	52	-		
Pembroke ...	30.10	63	NNW	1	0	30.16	+ 16	62	59	+ 4	Z	0	0	0	65	55	-		
Portishead ...	30.01	64	N	4	c	30.15	+ 18	61	57	+ 4	W	3	0	3	68	?	0.02		
Scilly ...	30.16	61	NW	4	0	30.22	+ 18	64	60	+ 4	WSW	3	0	2	64	55	-		
Plymouth ...	30.07	63	N	3	0	30.20	+ 20	62	59	+ 3	NW	2	0	*	67	57	-		
Hurst Castle ...	30.04	63	NW	3	0	30.16	+ 28	61	58	+ 5	W	1	0	1	66	50	0.15		
Dover ...	29.98	59	NNW	2	c	30.16	+ 26	62	54	+ 3	NW	3	0	1	63	47	0.03		
London ...	30.01	61	NNW	1	c	30.16	+ 24	60	55	+ 5	NW	1	0	*	63	45	0.04		
Oxford ...	*	*	*	*	*	30.16	+ 22	58	54	+ 3	W	1	0	*	62	46	0.05		
Cambridge ...	30.03	58	NNE	1	c	30.15	+ 25	57	54	+ 1	NW	1	0	*	64	39	0.01		
Yarmouth ...	29.97	57	NNW	4	0	30.12	+ 24	56	52	+ 4	NNW	2	0	3	58	44	0.14		
The Helder ...	*	*	*	*	*	30.04	+ 26	54	53	- 2	NNW	2	0	*	*	*	0.16		
Cape Gris Nez ...	30.00	57	NW	1	c	30.17	+ 25	57	52	+ 2	NNW	2	0	1	59	54	0.04		
Jersey ...	30.09	58	NW	3	0	30.24	+ 23	60	58	+ 1	NW	3	0	3	61	53	-		
Brest ...	30.21	?	NNW	3	0	30.32	+ 21	62	57	0	Z	0	0	2	63	50	-		
L'Orient ...	30.09	63	NW	5	m	30.25	+ 19	59	57	0	NNE	3	0	2	70	52	-		
Rochefort ...	30.19	66	NW	4	m	30.27	+ 17	66	59	+ 5	ENE	2	0	3	?	52	-		
Biarritz ...	30.23	68	NNW	5	c	30.27	+ 15	64	59	0	NNW	3	0	3	?	59	-		
Corunna ...	*	*	*	*	*										*	*	*		
Brussels ...	*	*	*	*	*	30.12	+ 27	55	57	+ 3	W	2	0	*	60	49	0.08		
Charleville ...	*	*	*	*	*	30.05	+ 23	57	*	- 4	WSW	1	0	*	*	*	*		
Paris ...	30.04	54	N	2	0	30.20	+ 29	57	53	0	NW	2	0	*	*	*	0.20		
Lyons ...	*	*	*	*	*	30.17	+ 35	63	*	- 4	NW	6	0	*	*	*	*		
Toulon ...	29.84	68	NW	7	0	29.95	+ 13	59	?	- 4	NW	8	0	7	72	?	-		

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

	Bar.	Dry.	Wet.	Wind.	Wes.	Sea.		Bar.	Dry.	Wet.	Wind.	Wes.	Sea.		
Skudesnaes ...	29.72	54	49	NW	6	0	3	Valencia .....	30.16	63	58	NNW	2	0	3
Thurso .....	30.02	59	54	NNW	2	c	3	Scilly .....	30.11	61	57	N	5	0	2
Scarborough ...	29.98	55	50	NNW	4	c	4	London .....	29.97	58	55	NNW	1	c	*
Greencastle ...	30.06	60	54	NW	2	0	*	Rochefort ...	30.13	68	61	NW	3	0	3
Holyhead .....	30.05	59	55	NNW	4	0	3								

Pressure is increasing slowly except at Valencia, where the barometer has been steady since noon. Wind continues N.W. and the weather dull.

## EXPLANATION OF COLUMNS.

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

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

† The evening observations are taken at 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.

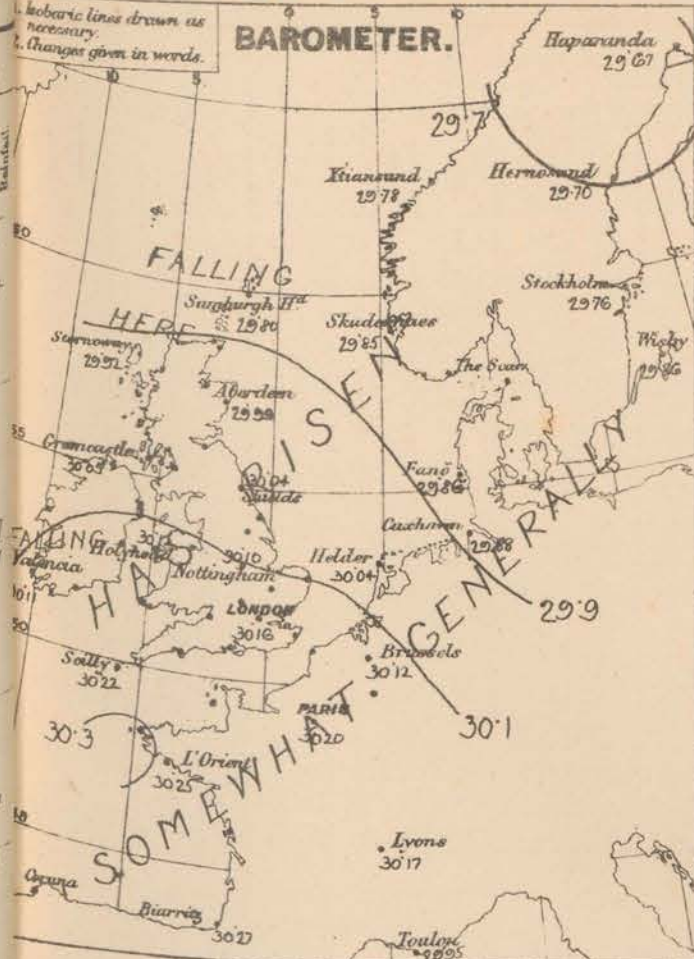
N.B.—The wind is said to "veer" when its direction changes with the sea, and to "back" when it shifts in the opposite direction.



# WEATHER CHARTS for 8 a.m. on Thursday 4<sup>th</sup> JULY 1878.

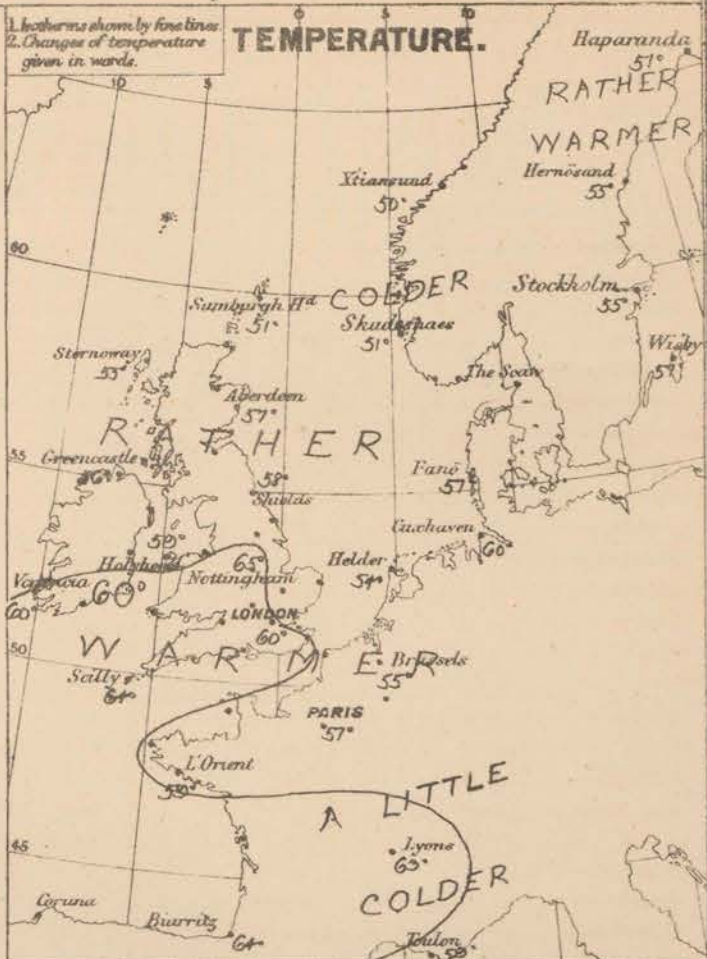
## BAROMETER.

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



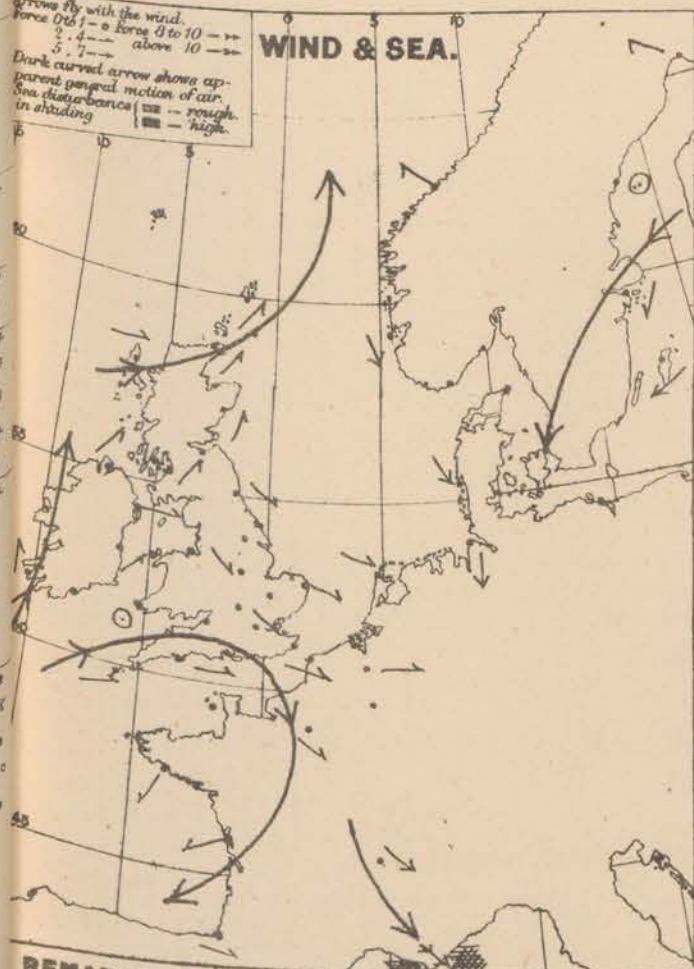
## TEMPERATURE.

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



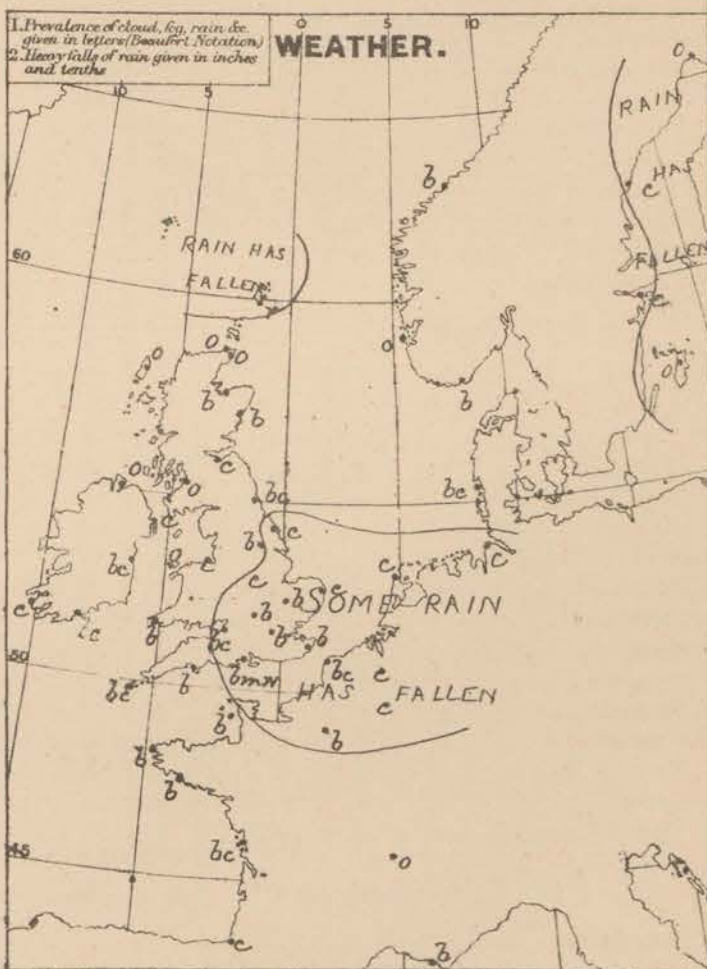
## WIND & SEA.

Arrows fly with the wind.  
Force 0-5 - a force 6 to 10 -  
4 - above 10 -  
5 - 7 -  
Dark curved arrow shows apparent general motion of air.  
Sea disturbance in shading - rough - high.



## WEATHER.

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



## REMARKS.

Weather is clear or nearly so in the north of France and at most of our southern and eastern stations, but in the west and north it is cloudy or overcast, and at Surfburgh H<sup>o</sup> rain is falling. Slight showers occurred in the south and east yesterday. Temperature has fallen in the west of Ireland and Norway and in the east of France, but has risen elsewhere; it at present varies from 64° at Sally to 55° in the Hebrides; during yesterday the thermometer in the shade only reached 63° in London and did not rise to 70° in any part of our Islands. Wind is S or SW on our western and northern coasts, but is NW to W in nearly all other places; it is moderate or light in force generally. Sea is moderate at Valentia, slight or smooth on our other coasts.

Barometrical Indications. Pressure is decreasing rather briskly in the Netherlands and slightly at most of the Scotch and Irish stations, increasing elsewhere. Readings are highest over the Bay of Biscay and lowest in the north of Sweden, but some slight disturbances appear to be approaching our western and north western coasts.

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

JULY 5<sup>th</sup> 1878.

STATIONS.	† YESTERDAY EVENING.						8 A.M. TO DAY.										PART 24 HOURS		
	Barometer at 32° F. and Sea Level.	Temp. in shade.	WIND.		Weather.	Barometer. Reading at 32° F. and Sea Level.	SEALED TEMP.		WIND.		Weather.	Sea. (0 to 9.)	SHADE TEMP.		Amount of Rainfall.				
			Dir.	Force. (0 to 12).			Dry.	Wet.	Dir.	Force. (0 to 12).			Max.	Min.					
Haparanda	29.76	48	S	2	bc	29.84	+ .14	57	47	0	S	2	bc	*	54	41	-		
Hernösand	29.75	53	S	2	c	29.69	- .01	57	52	+ 2	S	2	bc	*	*	*	0.12		
Stockholm	29.86	53	SSW	2	bc	29.73	- .03	65	55	+ 10	SSW	2	bc	*	*	*	-		
Wisby	29.79	53	ESE	4	bc	29.77	- .09	57	51	0	W	6	bc	*	*	*	-		
Christiansund	29.75	49	NNW	1	o	29.37	- .21	64	49	+ 4	E	1	c	0	54	?	-		
Skudesnaes	29.83	57	S	2	r	29.63	- .22	54	53	+ 3	W	4	o	3	?	50	0.75		
Oxö (Xtensö)	29.75	59	SW	6	c	29.66	- .09	54	53	- 2	W	4	r	2	64	52	-		
Skagen (The Sound)	29.80	53	W	5	a	29.70	- .06	55	53	- 5	W	4	r	3	64	48	-		
Fanö	29.97	55	W	4	o	29.80	- .06	58	58	+ 1	W	6	r	*	61	54	0.08		
Cuxhaven	30.05	59	NNW	4	o	29.95	+ .07	57	57	- 1	SW	2	o	*	?	54	0.01		
Sumburgh Head	29.75	52	W	3	r	29.69	- .11	52	50	+ 1	SE	3	c	3	54	49	0.45		
Stornoway	29.76	55	S	5	r	29.72	- .20	60	60	+ 5	SW	3	o	3	60	54	0.55		
Thurso	29.83	55	Z	0	r	29.76	- .17	55	55	- 1	Z	0	r	2	60	53	1.20		
Wick	29.84	56	NNW	2	r	29.76	- .18	56	56	0	NNW	1	r	0	64	54	1.05		
Nairn	29.85	55	Z	0	r	29.76	- .21	60	55	+ 3	Z	0	o	1	63	58	0.25		
Aberdeen	29.88	60	NNW	1	r	29.79	- .20	60	58	+ 3	NNW	1	o	1	64	55	0.12		
Leith	29.95	58	WSW	3	o	29.87	- .19	63	61	+ 6	W	3	r	*	65	55	0.02		
Shields	29.99	60	W	1	o	29.89	- .15	64	61	+ 8	W	4	c	2	67	57	0.31		
Scarborough	30.02	62	WSW	2	o	29.94	- .13	65	61	+ 10	W	3	c	2	68	55	-		
York	30.05	63	W	2	c	29.97	- .11	62	59	+ 5	W	4	o	*	68	57	0.01		
Nottingham	30.07	67	SSW	4	o	30.04	- .06	69	64	+ 4	SSW	2	o	*	79	56	-		
Ardrossan	29.96	58	SW	3	o	29.87	- .18	60	58	+ 3	SSW	2	r	3	62	56	-		
Greencastle	29.92	63	SW	2	o	29.85	- .20	63	61	+ 7	SW	2	o	*	64	55	0.03		
Donaghadee	30.01	62	SW	2	o	29.92	- .17	65	63	+ 7	W	5	o	3	65	57	-		
Kingstown	30.05	62	WSW	3	o	29.99	- .13	67	61	+ 9	SW	4	c	3	68	58	-		
Holyhead	30.04	61	SW	4	o	30.02	- .10	61	59	+ 2	SSW	4	bc	3	64	57	-		
Liverpool (Bidston)	30.06	62	SW	2	c	30.04	- .11	64	60	+ 4	W	3	c	2	64	59	-		
Valencia	30.04	63	SSW	5	o	29.97	- .14	62	61	+ 2	S	7	og	6	66	59	0.06		
Roche's Point	30.12	62	SW	4	o	30.06	- .09	61	60	0	SW	5	o	4	68	57	0.08		
Pembroke	30.14	62	SW	8	bc	30.10	- .06	60	59	- 2	SW	3	o	2	65	59	-		
Portishead	30.15	63	WSW	4	c	?	?	64	60	+ 3	SW	5	c	5	70	56	-		
Seilly	30.23	63	WSW	4	bc	30.18	- .04	65	62	+ 1	SW	5	bc	3	67	59	-		
Plymouth	30.21	65	W	4	bc	30.18	- .02	64	60	+ 2	WSW	3	o	*	70	55	-		
Hurst Castle	30.17	66	W	5	o	30.17	+ .01	64	61	+ 3	W	4	bc	4	67	58	-		
Dover	30.14	61	WSW	3	bc	30.14	- .02	62	58	0	WSW	3	bc	2	65	57	-		
London	30.13	69	W	1	o	30.13	- .03	63	59	+ 3	W	3	c	*	72	53	-		
Oxford	?	?	?	?	?	30.11	- .05	60	58	+ 2	SW	3	o	*	68	55	-		
Cambridge	30.10	68	W	1	o	30.08	- .07	65	60	+ 8	W	1	c	*	71	52	-		
Yarmouth	30.08	66	Z	0	bc	30.03	- .09	64	59	+ 8	W	4	bc	2	66	55	-		
The Helder	?	?	?	?	?	29.99	- .05	61	59	+ 7	WSW	2	c	*	?	?	-		
Cape Gris Nez	30.15	61	SW	3	c	30.17	0.00	59	59	+ 2	W	4	c	3	64	57	-		
Jersey	30.27	63	NNW	2	bc	30.26	+ .02	61	59	+ 1	W	2	bc	2	65	55	-		
Brest	30.38	?	W	3	bc	30.32	0.00	59	57	0	S	2	bc	3	66	54	-		
L'Orient	30.27	64	NNW	3	bc	30.28	+ .03	63	61	+ 4	E	1	bc	1	69	50	-		
Rocheport	30.32	70	NNW	3	bc	30.27	0.00	68	59	- 3	NE	2	bc	3	75	55	-		
Biarritz	30.36	70	NNW	2	bc	30.24	- .06	63	59	+ 1	ESE	2	bc	3	?	55	-		
Corunna	?	?	?	?	?	?	?	?	?	?	?	?	?	?	?	?	?		
Brussels	?	?	?	?	?	30.13	+ .01	60	57	+ 5	WSW	5	c	*	64	53	-		
Charleville	?	?	?	?	?	30.22	+ .17	57	?	+ 6	SE	1	bc	?	?	?	-		
Paris	30.20	66	W	1	bc	30.25	+ .05	64	55	+ 7	W	2	bc	*	?	?	-		
Lyons	?	?	?	?	?	30.24	+ .07	57	?	- 6	W	2	bc	*	?	?	-		
Toulon	29.94	64	NNW	8	bc	30.12	+ .17	70	55	+ 11	NE	2	bc	4	70	59	-		

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

	Bar.	Dry.	Wet.	Wind.	Wen.	Sea.		Bar.	Dry.	Wet.	Wind.	Wen.	Sea.	
Skudscnaes ...	29.87	53	48	NNN	2	r	Valencia .....	30.09	65	62	SW	5	o	5
Thurso .....	29.88	59	58	NNN	3	p	Seilly .....	30.23	66	61	SW	4	c	2
Scarborough ...	30.03	57	55	WSW	2	o	London .....	30.15	70	61	NNN	2	c	*
Greencastle ...	30.00	59	56	SW	2	o	Rocheport ...	30.30	68	63	NN	3	bc	3
Holyhead .....	30.12	60	58	SW	4	o								

Pressure is decreasing slowly everywhere. Winds are unchanged.

## 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.

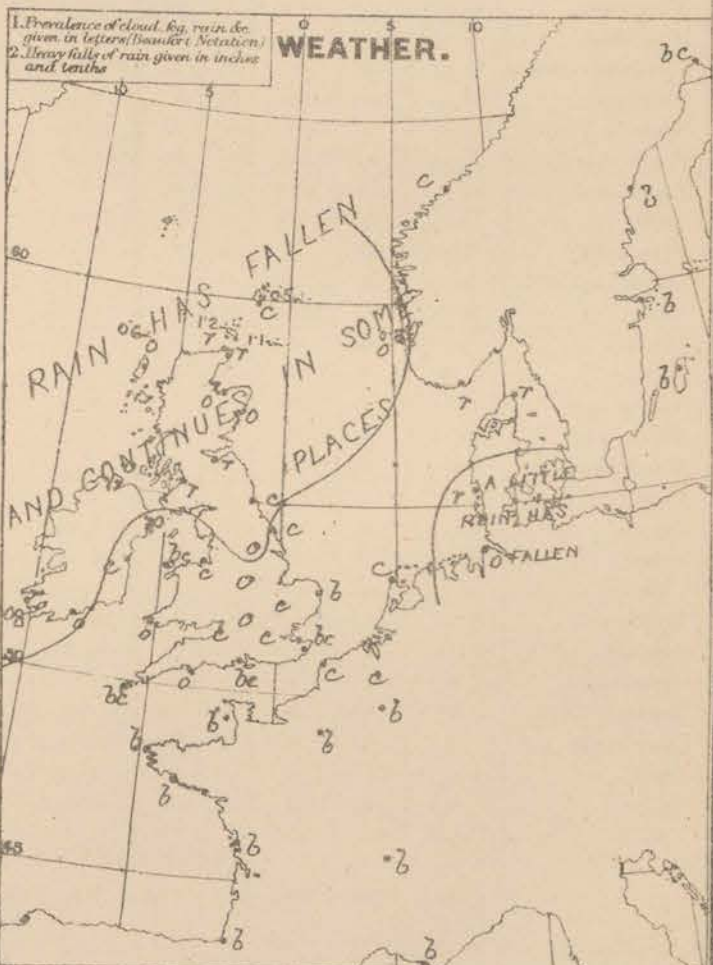
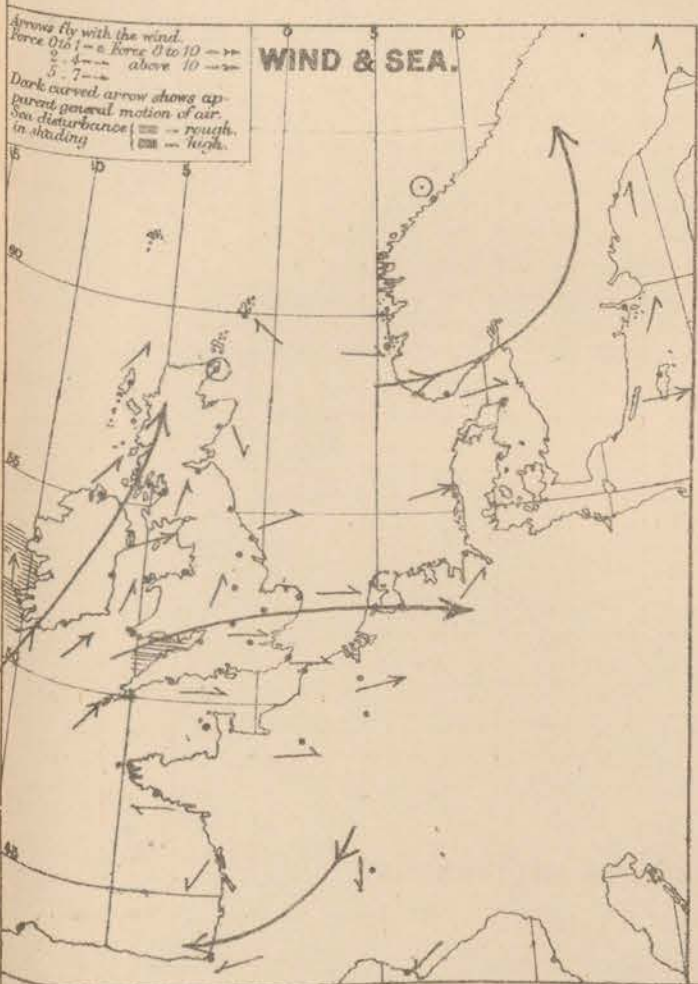
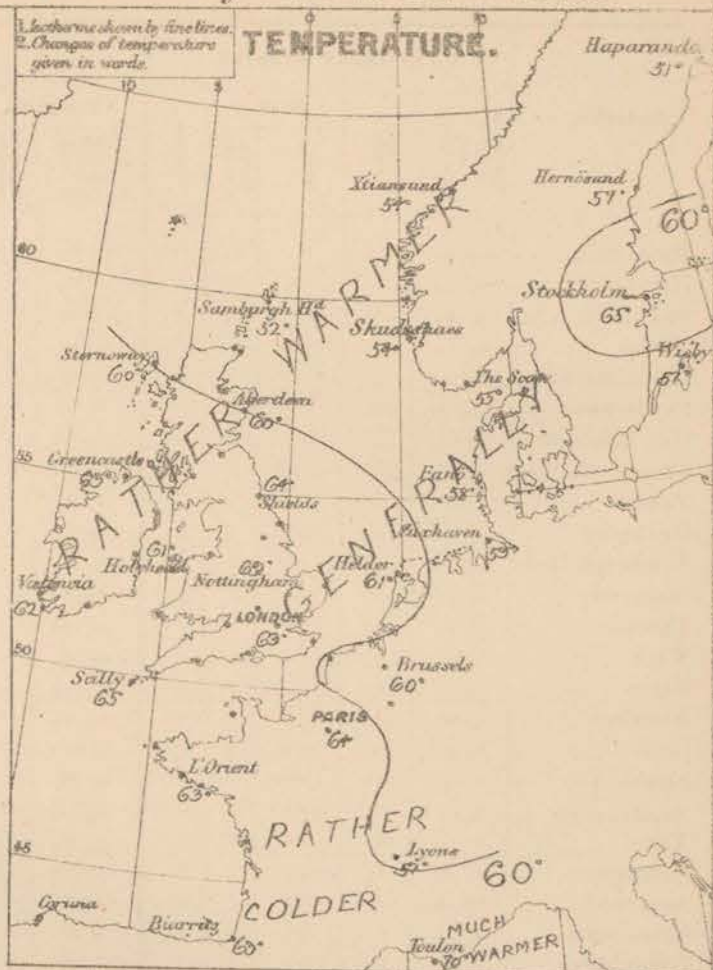
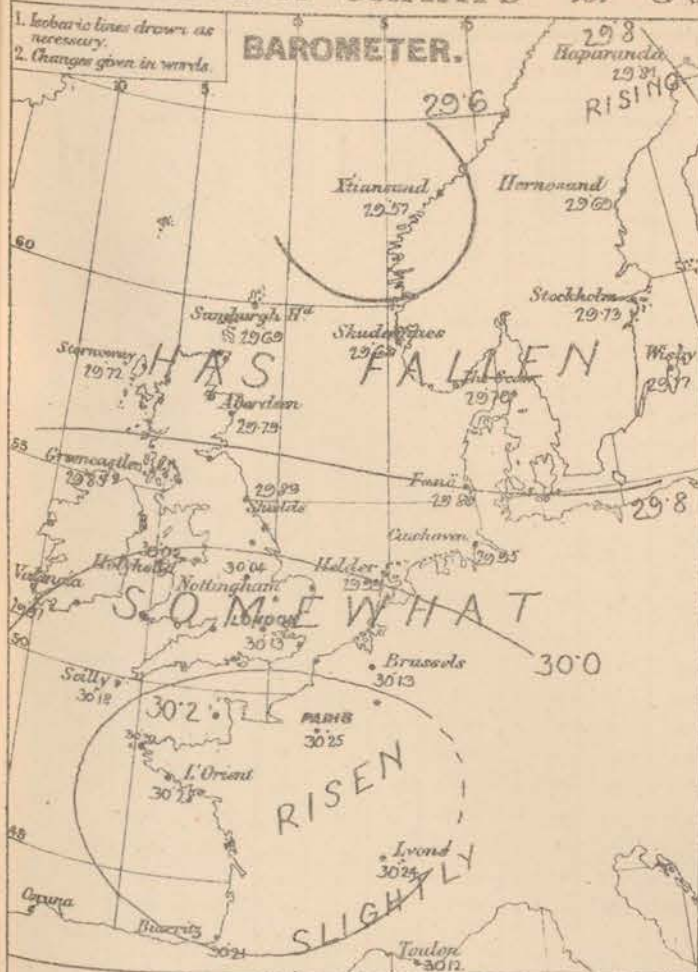
\* AN ASTERISK is inserted in all places for which information is not usually received.

† 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 5<sup>TH</sup> JULY 1878



**REMARKS.** Weather is clear over France and Sweden, and moderately so at some of our southern stations, but in nearly all other places the sky is cloudy or overcast, and rain is falling over Denmark, the Skager Rack and Lathness. Rain has occurred at all the more northern ports, over an inch having fallen at Helsing and Trich, and about half an inch at Stornoway and Lumburgh &c. Temperature has decreased in the southern and central parts of France, rain in most other places; it is locally low in the extreme north east of Scotland but is uniform between 60° and 69° over the remainder of our Islands; during yesterday the thermometer in the shade rose to 70° at Hurst Castle and Portland, to 73° in London and to 79° at Nottingham. Wind is SW by S to W by S and moderate to light in force on most coasts, but at Valentia a strong wind from S. is reported and in the south west of France a light breeze from NE. In the north east of Scotland a local NW current is shown, while in the Shetlands the wind is SE. Sea is rough at Valentia, rather so in the Bristol Channel, slight elsewhere.

*Barometrical Indications.* Pressure is decreasing except over Central France. Readings are highest over the Bay of Biscay, while a large shallow depression lies over the coast of Norway. On our western coasts the barometer is very unstable, and a small local disturbance apparently lies in the neighbourhood of the Shetlands.

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

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

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

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

R. H. SCOTT.

Secretary.



## DAILY WEATHER REPORT

JULY 6<sup>TH</sup>

1878.

STATIONS.	† YESTERDAY EVENING.					8 A.M. TO DAY.										PART 24 HOURS.		
	Barometer at 320 F. and Sea Level.	Temp. in shade.	WIND.		Weather.	BAROMETER.		SHADE TEMP.			WIND.		Weather.	Sea. (0 to 3.)	SHADE TEMP.		Amount of Rainfall.	
			Direc.	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.	Direc.	Force. (0 to 12).			Max.	Min.		
Haparanda ...	29.71	53	Z	0	bc	29.68	-12	57	53	+6	SE	2	c	*	57	41	-	
Hernösand ...	29.60	54	SE	2	r	29.50	-19	56	54	-1	S	4	c	*	*	*	0.24	
Stockholm ...	29.62	55	Z	0	o	29.58	-15	58	54	-7	Z	0	o	*	*	*	-	
Wisby ...	29.67	56	S	2	bc	29.61	-16	57	54	0	NN	2	bc	*	*	*	-	
Christiansund ...	29.63	57	NNN	3	c	29.58	+01	52	49	-2	NE	1	o	1	55	46	-	
Skudesnaes ...	29.70	53	NN	2	o	29.58	-05	54	50	0	N	2	o	2	57	51	-	
Oxö (Klansand) ...	29.60	62	NNN	6	bc	29.56	-10	54	50	0	N	4	c	2	63	52	-	
Skagen (The Seaw) ...	29.60	58	NNN	3	bc	29.55	-15	58	54	+3	N	3	c	2	70	50	0.35	
Fanö ...	29.79	56	NNN	4	c	29.61	-19	59	59	+1	NSTN	6	r	*	63	55	0.59	
Cuxhaven ...	29.84	61	NNN	6	r	29.77	-18	63	62	+4	N	5	o	*	?	57	0.18	
Sumburgh Head ...	29.74	52	NN	2	c	29.62	-07	53	52	+1	ESE	2	o	2	57	49	0.01	
Stornoway ...	29.65	62	SN	2	r	29.68	-04	58	56	-2	NN	6	bc	5	62	55	0.38	
Thurso ...	29.70	56	Z	0	r	29.61	-15	57	57	+2	NSTN	3	r	2	59	54	1.06	
Wick ...	29.66	54	SE	2	r	29.64	-15	58	57	+2	N	1	o	0	60	53	0.78	
Nairn ...	29.69	64	N	1	r	29.69	-07	60	56	0	N	4	bc	2	65	57	0.09	
Aberdeen ...	29.72	60	Z	0	r	29.67	-12	62	57	+2	NN	4	c	2	64	55	0.09	
Leith ...	29.70	68	NE	3	r	29.74	-07	62	59	-1	NNN	5	bc	*	71	57	0.10	
Shields ...	29.85	67	NNN	1	o	29.78	-11	62	57	-2	NN	7	bc	2	67	56	0.03	
Scarborough ...	29.90	67	NSTN	3	c	29.87	-13	68	62	+3	N	3	bc	2	70	62	-	
York ...	29.95	66	N	1	o	29.86	-11	63	58	+1	NNN	4	bc	*	69	61	0.03	
Nottingham ...	30.02	68	NSTN	4	o	29.95	-09	66	61	-3	NSTN	4	o	*	62	60	0.06	
Greenock ...	29.80	61	SN	2	r	29.85	-02	60	56	0	NN	3	c	2	63	57	0.26	
Greencastle ...	29.80	67	SN	2	o	29.86	+01	60	57	-3	N	3	o	*	69	55	0.11	
Donaghadee ...	29.85	63	NSTN	5	o	29.90	-02	61	59	-4	NSTN	6	c	4	71	57	-	
Kingstown ...	29.94	71	SN	5	o	29.95	-04	62	58	-5	NNN	5	bc	5	71	59	-	
Holyhead ...	29.99	61	SN	6	r	29.98	-04	60	57	-1	NSTN	3	o	2	65	57	0.01	
Liverpool (Bidston) ...	29.96	66	SN	3	c	29.95	-06	60	57	-4	NSTN	4	c	3	71	59	-	
Valencia ...	29.95	62	SN	6	o	30.03	+06	61	59	-1	SN	3	o	3	64	57	-	
Roche's Point... ..	30.04	62	SN	5	r	30.08	-01	62	58	+1	NSTN	4	bc	3	67	55	0.16	
Pembroke ...	30.08	61	NSTN	4	o	30.07	-03	60	58	0	NNN	1	bc	2	65	58	0.03	
Portishead ...	30.08	65	SN	3	c	30.09	?	64	63	0	SN	4	o	4	71	58	0.08	
Scilly ...	30.16	63	SN	5	c	30.10	-08	61	61	-4	SN	5	bc	5	68	60	0.02	
Plymouth ...	30.16	65	SN	4	c	30.09	-09	63	61	-1	N	2	o	*	70	61	-	
Hurst Castle ...	30.13	64	N	5	bc	30.06	-11	64	63	0	N	4	c	5	67	60	-	
Dover ...	30.09	63	NSTN	4	bc	30.03	-11	65	61	+3	NSTN	4	bc	3	66	59	-	
London ...	30.09	69	NSTN	2	c	30.02	-11	64	61	+1	NSTN	2	o	*	72	57	-	
Oxford ...	*	*	*	*	*	30.01	-10	63	60	+3	NSTN	4	o	*	68	58	-	
Cambridge ...	30.07	67	N	2	c	29.97	-11	67	62	+2	NSTN	2	c	*	74	57	-	
Yarmouth ...	30.01	74	N	4	bc	29.92	-11	67	62	+3	N	4	bc	2	73	59	-	
The Helder ...	*	*	*	*	*	29.88	-11	62	60	+*	SN	3	r	*	*	*	-	
Cape Gris Nez ...	30.12	61	NSTN	5	bc	30.06	-11	61	59	+2	NSTN	4	c	3	63	57	-	
Jersey ...	30.22	65	NNN	2	bc	30.17	-09	62	60	+1	N	2	c	2	67	56	-	
Brest ...	30.30	?	NSTN	2	bc	30.24	-08	61	54	+2	N	2	o	2	70	57	-	
L'Orient ...	30.25	68	SN	1	bc	30.19	-09	61	59	-2	E	1	c	1	77	54	-	
Rocheport ...	30.23	72	NN	4	bc	30.21	-06	66	63	+3	E	2	bc	3	75	54	-	
Biarritz ...	30.12	72	ENE	4	bc	30.14	-07	68	63	+5	Z	0	bc	3	66	61	-	
Corunna ...	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	
Brussels ...	*	*	*	*	*	30.04	-09	59	57	-1	SN	5	o	*	70	55	-	
Charleville ...	*	*	*	*	*	30.03	-19	62	*	+5	N	1	bc	*	*	*	*	
Paris ...	30.16	73	S	1	bc	30.14	-11	68	59	+4	SN	2	bc	*	*	*	-	
Lyons ...	*	*	*	*	*	30.15	-09	66	*	+9	N	2	bc	*	*	*	*	
Toulon ...	30.12	72	SN	1	bc	30.11	-01	64	61	-6	E	4	bc	3	77	?	-	

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

	Bar.	Dry.	Wet.	Wind.	Wes.	Sea.		Bar.	Dry.	Wet.	Wind.	Wes.	Sea.		
Skudesnaes ...	29.71	55	50	NNN	4	o	2	Valencia .....	29.96	63	62	SW	7	angd	6
Thurso .....	29.76	58	58	ESE	1	o	2	Seilly .....	30.18	67	63	SW	5	c	4
Scarborough ...	29.95	67	63	WSW	2	r	2	London .....	30.12	71	64	SW	2	c	*
Greencastle ...	29.83	64	63	SW	2	r	*	Rocheport ...	30.27	72	59	NN	3	bc	3
Holyhead .....	30.02	64	62	SW	6	m	4								

No important change.

## EXPLANATION OF COLUMNS.

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

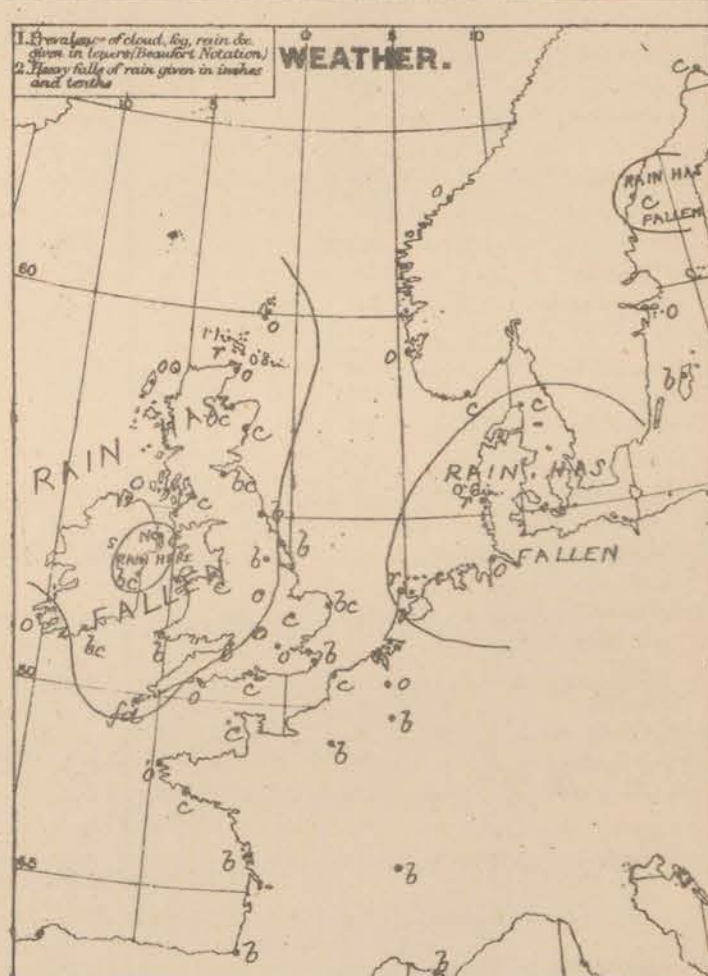
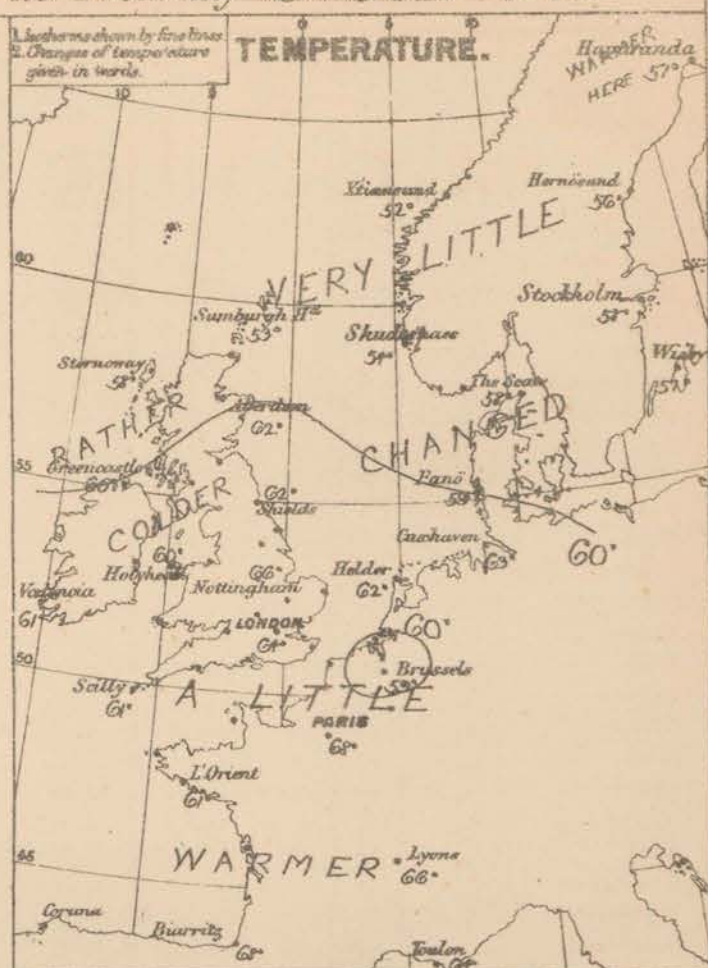
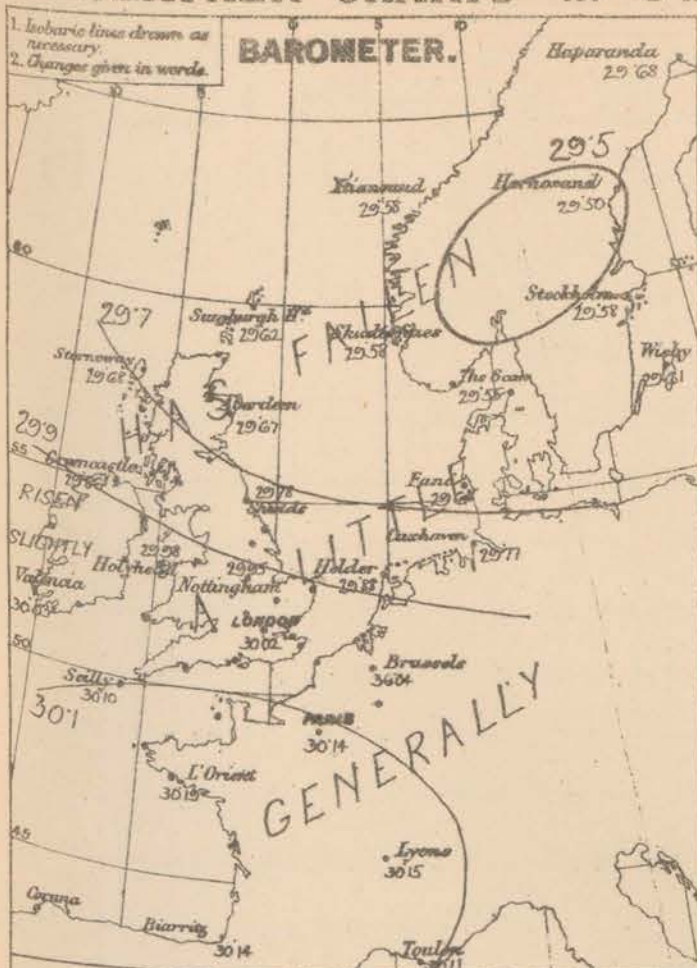
\* AN ASTERISK is inserted in all places for which information is not usually received.

† 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 Saturday 6<sup>th</sup> JULY 1878.



**REMARKS.** Weather is clear over the greater part of France as well as in the north east of England, but in nearly all other parts of our area the sky is more or less cloudy; rain is falling at Thurso, and at Stromness the weather is equally. Conditions are rather unsettled generally. Rain has fallen at all but the southern stations, very heavily in Caithness, another inch having been measured at Thurso since yesterday morning. Temperature has changed rather irregularly but has fallen at most of our more western stations; it varies at present from 60° at Leith to 57° at Thurso; during yesterday the maximum in the shade were 82° at Nottingham, 74° at Cambridge, 72° in London and about 70° at most of the inland stations. Wind is moderate to fresh from NW to W on most coasts, but is backing towards S. at Valentia, while in the south and west of France it is E. Sea is rather rough in the western part of the Channel as well as at Stromness, but is slight or smooth elsewhere.

**Barometrical Indications.** Pressure has increased during the night on our north west coasts, but has decreased in all other parts of Western Europe. An anticyclone lies over the north west of France, and a large shallow cyclone over Scandinavia; the intermediate gradients are rather steep.

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

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

R. H. SCOTT.  
Secretary.



# SUMMARY OF WEATHER IN WESTERN EUROPE

from 30<sup>TH</sup> JUNE to 6<sup>TH</sup> JULY 1878.

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

The weather during this week has been much more unsettled than during that which preceded it. Pressure for the first four days was lowest to the E<sup>W</sup> and S<sup>W</sup> of our Islands, so that N<sup>E</sup> to NE<sup>E</sup> breezes have prevailed, bringing cloudy skies and cold weather to all coasts; the thermometric maxima during the middle of the week were as much as 30° lower than those on the preceding Wednesday. From the 4<sup>th</sup> July till the close of the week the highest readings were found over France, and depressions passed from W. to E. to the N<sup>W</sup> of our Islands, occasioning first SW<sup>W</sup>, then W<sup>W</sup> and finally NW<sup>W</sup> breezes. The weather during the last few days was finer and warmer generally, but in Caithness very heavy rain fell. Thunderstorms occurred in the S. in the early part of the week, during that which passed over London on Sunday, heavy rain fell, and the phenomenon of globular lightning was observed in Battersea Park.

## JUNE 30<sup>TH</sup>

Weather, fair in most places, but very dull in the SE. of England, with rain and thunder over the S<sup>W</sup> and SE<sup>W</sup> counties later in the day. Rainfall very heavy round London.

Temperature fallen except in the S. of Ireland, the 8 a.m. readings being below 60° in Scotland, and about 61° to 64° in the S. of England. The maximum readings as low as 67° to 69° at our SE stations, but above 70° at Aldersham, Newcastle, Patishead and Cambridge.

Wind N<sup>E</sup> to NE<sup>E</sup> and moderate in our Islands, but NW<sup>W</sup> in the W. of France, S<sup>E</sup> at Paris, and SW<sup>W</sup> at Brussels. A slight WSW gale at Jersey.

Sea rather rough at Jersey.

Barometer highest (above 30 in.) both in the N. of Scotland, and in the SW. of France. An elongated depression lying over the Netherlands, and E<sup>W</sup> parts of the Channel.

## JULY 1<sup>ST</sup>

Weather, fine in Ireland, but very dull over the major part of Great Britain, and wet in the SE and S. Heavy rain and thunder at Jersey, and much rain at Patishead.

Temperature differing little from that of June 30<sup>th</sup>, beyond a slight further decrease at all but the Irish stations. The maximum readings in our Islands rising above 70° at our NW stations only.

Wind, still N<sup>E</sup> in most places, drawing into NW over the E<sup>W</sup> shores of the North Sea, and W. in the Netherlands.

Sea, rough in the extreme N. only.

Barometer, still high at both the most N<sup>W</sup> and S<sup>W</sup> stations, but falling over the S<sup>W</sup> parts of Scandinavia. A depression lying over the S. of Sweden, and a shallow disturbance near the mouth of the Bristol Channel, growing larger and travelling slowly to the E<sup>W</sup>.

## JULY 2<sup>ND</sup>

Weather fine in Ireland, but very dull over the rest of the United Kingdom, with rain in the S, and SE, and at a few isolated stations elsewhere.

Temperature very low for the time of year, the maximum readings reaching 70° in the S. of Ireland only. In London the



maximum was only  $59^{\circ}$  or  $32^{\circ}$  colder than on June 26<sup>th</sup>.

Winds N<sup>o</sup> over the United Kingdom, NW<sup>o</sup> in France, and Sweden and Norway, and W<sup>o</sup> in Germany; light to moderate in arid lands, but blows strongly in Scandinavia, and a strong gale at Stadesness.

Sea generally moderate in the W and N (but rough at Christiansand) slight elsewhere.

Barometer highest over our Atlantic coast, lowest over the Gulf of Bothnia and N<sup>o</sup> Russia. A shallow depression in the Channel moving E<sup>o</sup>, and the overlying consequently rising in our Islands during the day.

#### JULY 3<sup>rd</sup>

Weather still fine in the W and improving a little elsewhere, but rain again recorded in the SE.

Temperature low, but inclined to rise, the maximum values over Central England varying from  $63^{\circ}$  to  $65^{\circ}$ , while in the SW  $67$  and  $68^{\circ}$  were reported.

Winds N<sup>o</sup> in the N, NW<sup>o</sup> in the S, and W<sup>o</sup> in the SE, but S<sup>o</sup> air setting in at Stornoway in the evening.

Sea rough in the Fager Raak, moderate on our NE coasts.

Barometer still highest in the W, and rising generally, but slowly. A fall commencing in the extreme NW of our Islands at evening.

#### JULY 4<sup>th</sup>

Weather much finer over England than of late, but overcast in the extreme W and N, with heavy rain in Caithness, the Hebrides and Shetlands, and a smaller quantity in other parts of Scotland, and the W of Ireland.

Temperature risen considerably, reaching  $72^{\circ}$  in London, and rising above  $70^{\circ}$  in many other parts of England during the day, and to  $75^{\circ}$  at Rochefort.

Winds backing in most places. Still NW<sup>o</sup> to W<sup>o</sup> in the E and SE, but S<sup>o</sup> to SW<sup>o</sup> in the W and N, and blowing fresh at Valentia.

Sea rather rough off the SW of Ireland in the afternoon.

Barometer now highest over the Bay of Biscay, Channel and France, but falling generally, most in the NW. Depressions outside our extreme W and NW coasts, moving in a NE<sup>o</sup> direction towards Norway.

#### JULY 5<sup>th</sup>

Weather continuing fine at the S<sup>o</sup> stations, but rather dull in the W and N, with rain in many places, especially in the N of Scotland and in Denmark. Sky very clear in France.

Temperature showing little change, the maximum in England being above  $70^{\circ}$  in many places, while at Biarritz <sup>recorded</sup> 86 was

Winds, S<sup>o</sup> to SW<sup>o</sup> in the W and N, and blowing strongly in the extreme W, W<sup>o</sup> in the E and S, and though light in the E, blowing fresh in the Channel. E<sup>o</sup> winds prevailing in Spain and the S<sup>o</sup> parts of France.

Sea rough in the west.

Barometer highest over France, and still falling generally. Depressions still passing by our W and NW coasts in a NE<sup>o</sup> direction, but only just striking us, so that the gradients in our Islands continued moderate.

#### JULY 6<sup>th</sup>

Weather clear in France, fine but cloudy in the S of our Islands and dull elsewhere, with rain in some places.

Temperature rising a little in the S, and reaching  $73^{\circ}$  to  $78^{\circ}$  over Central England, and  $72^{\circ}$  at Aberdeen during the day, the nights also being mild generally.

Winds NW<sup>o</sup> at the N<sup>o</sup> stations, and W<sup>o</sup> to SW<sup>o</sup> in the S, but N<sup>o</sup> to E<sup>o</sup> in the S of France; generally moderate in force, but blowing strongly from W to NW on the E<sup>o</sup> shores of the North Sea.

Sea rather rough in the N, NW, and S.

Barometer highest in the SW, and S, lowest in the N and NE, but gradients moderate. A depression lying over Scandinavia and fresh disturbances advancing towards the same region from the Atlantic. Barometer changing very little and irregularly in our Islands.



# DAILY WEATHER REPORT

JULY 7<sup>th</sup>

1878.

STATIONS.	† YESTERDAY EVENING.					8 A.M. TO DAY.										LAST 24 HOURS.		
	Barometer at 32° F. and Sea Level.	Temp. in shade.	WIND.		Weather.	BAROMETER.		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 ...	29.56	55	N	2	c	29.50	-.18	60	56	+ 3	SE	2	bc	*	61	48	-	
Hernösand ...	29.51	55	Z	0	bc	29.52	+ .02	55	51	- 1	NNH	4	o	*	*	*	-	
Stockholm ...	29.53	59	SH	2	o	29.49	-.09	65	58	+ 7	Z	0	bc	*	*	*	-	
Wisby ...	29.56	58	S	4	bc	29.52	-.09	55	51	- 2	NNH	4	o	*	*	*	-	
Christiansund ...	29.61	53	NNH	1	bc	29.64	+ .06	50	48	- 2	N	2	o	1	55	43	-	
Skudesnaes ...	29.62	52	NN	4	o	29.64	+ .06	54	49	0	NN	6	o	3	55	52	-	
Oxö (Tiansand) ...	29.51	62	NNH	4	bc	29.52	-.04	56	53	+ 2	NN	2	bc	2	63	52	-	
Skagen (The Sound) ...	29.54	55	N	3	bc	29.50	-.05	58	53	0	N	5	e	5	63	48	0.04	
Fanö ...	29.71	55	NNH	6	e	29.70	+ .09	63	60	+ 4	N	6	e	*	64	54	0.12	
Cuxhaven ...	29.83	63	N	5	bc	29.81	+ .04	63	61	0	NNH	4	e	*	64	57	0.02	
Sumburgh Head ...	29.66	51	ENE	3	f	29.76	+ .14	52	51	- 1	N	2	e	2	41	46	0.19	
Stornoway ...	29.75	61	NN	5	o	29.81	+ .13	58	56	0	NN	4	e	4	63	53	-	
Thurso ...	29.73	57	NNH	4	e	29.80	+ .19	56	53	- 1	NNH	3	e	4	61	53	0.01	
Wick ...	29.72	60	NN	6	e	29.79	+ .18	58	54	0	NN	4	bc	2	64	52	0.02	
Nairn ...	29.77	61	N	4	bc	29.81	+ .12	57	55	- 3	Z	0	o	1	66	55	0.03	
Aberdeen ...	29.73	65	Z	0	e	29.79	+ .12	60	56	- 2	NN	2	o	2	72	57	-	
Leith ...	29.82	63	NNH	4	bc	29.82	+ .08	63	58	+ 1	N	4	e	*	70	56	-	
Shields ...	29.85	67	NN	5	bc	29.88	+ .10	60	57	- 2	NN	3	e	2	68	55	-	
Scarborough ...	29.89	66	N	3	e	29.90	+ .09	62	57	- 6	NNH	2	o	2	72	57	-	
York ...	29.92	65	N	3	e	29.93	+ .07	61	58	- 2	N	3	e	*	70	57	-	
Nottingham ...	29.97	70	NNH	2	bc	29.99	+ .04	64	60	- 2	N	2	o	*	78	57	-	
Ardrossan ...	29.89	61	NNH	3	e	29.91	+ .06	59	56	- 1	NNH	2	e	1	65	56	0.07	
Greencastle ...	29.91	62	N	3	o	29.94	+ .08	60	56	0	N	3	bc	*	67	55	-	
Donaghadee ...	29.95	63	SH	2	f	29.97	+ .07	59	58	- 2	N	4	e	3	67	57	0.63	
Kingstown ...	30.05	67	NNH	4	e	30.03	+ .08	59	58	- 12	NNH	3	e	2	69	58	0.06	
Holyhead ...	29.99	61	SH	3	o	30.02	+ .04	60	58	0	N	3	o	2	64	57	-	
Liverpool (Bidston) ...	29.96	63	N	2	o	29.99	+ .04	59	57	- 1	N	2	o	2	68	58	-	
Valencia ...	30.07	61	NNH	3	e	30.05	+ .02	61	60	0	NNH	3	og	3	66	57	0.06	
Roche's Point ...	30.07	62	N	4	bc	30.07	+ .02	62	58	0	N	2	bc	2	69	56	-	
Pembroke ...	30.05	61	N	1	bc	30.05	-.02	58	58	- 2	NNH	2	og	2	65	57	0.01	
Portishead ...	30.02	66	SH	3	o	30.03	+ .02	64	60	0	SH	2	o	2	71	57	-	
Scilly ...	30.11	60	N	1	f	30.14	+ .04	60	58	- 1	NNH	4	o	4	65	58	0.24	
Plymouth ...	30.07	67	SH	2	o	30.09	.00	65	62	+ 2	NNH	3	o	*	68	56	-	
Hurst Castle ...	30.03	65	N	5	o	30.04	-.02	64	62	0	NNH	2	bc	3	68	57	-	
Dover ...	30.00	64	NNH	4	bc	29.99	-.04	67	62	+ 2	NNH	2	bc	1	69	62	-	
London ...	29.99	72	NNH	1	e	30.01	-.01	62	57	- 2	N	2	e	*	77	54	-	
Oxford ...	*	*	*	*	*	30.02	+ .01	62	59	- 1	N	2	e	*	73	54	-	
Cambridge ...	29.99	72	N	2	e	30.00	+ .02	63	59	- 4	N	1	o	*	75	53	-	
Yarmouth ...	29.94	71	NN	3	bc	29.94	+ .02	64	60	- 3	NNH	3	bc	2	74	57	-	
The Helder ...	*	*	*	*	*	29.89	+ .01	62	59	0	N	2	bc	*	*	*	0.04	
Cape Gris Nez ...	30.03	61	NNH	5	f	30.02	-.04	61	59	0	N	2	bc	2	63	57	-	
Jersey ...	30.16	60	NNH	3	o	30.13	-.04	59	59	- 3	NNH	2	omv	2	66	58	0.08	
Brest ...	30.20	68	SH	2	o	30.22	-.02	59	57	- 2	N	2	o	2	68	55	-	
L'Orient ...	30.18	66	NN	3	bc	30.13	-.06	63	63	+ 2	NN	2	m	2	73	59	-	
Rochefort ...	30.21	72	NNH	3	bc	30.22	+ .01	68	64	+ 2	NN	2	o	3	77	55	-	
Biarritz ...	30.17	72	NNH	3	bc	30.29	+ .06	66	63	- 2	NNH	2	bc	3	73	63	-	
Corunna ...	*	*	*	*	*	30.30	+ .19	70	*	+ 9	Z	0	og	2	*	*	*	
Brussels ...	*	*	*	*	*	29.98	-.06	61	59	+ 2	NNH	4	o	*	70	60	-	
Charleville ...	*	*	*	*	*	30.06	+ .03	63	*	+ 1	N	3	e	*	*	*	*	
Paris ...	30.06	76	NNH	3	bc	30.08	-.06	65	60	- 3	N	1	o	*	*	*	-	
Lyons ...	*	*	*	*	*	30.09	-.06	72	*	+ 6	E	e	o	*	*	*	*	
Toulon ...	30.08	77	S	1	bc	30.08	-.03	61	61	- 3	E	4	m	3	75	64	-	

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

	Bar.	Dry.	Wet.	Wind.	Wes.	Sea.		Bar.	Dry.	Wet.	Wind.	Wes.	Sea.		
Skudesnaes ...	29.61	55	50	NN	6	e	3	Valencia .....	30.06	62	69	NNH	3	e	4
Thurso .....	29.69	60	57	NNH	5	o	4	Scilly .....	30.11	61	61	NNH	1	f	3
Scarborough ...	29.87	71	60	N	*	bc	3	London .....	30.00	75	68	NNH	2	e	*
Greencastle ...	29.90	64	58	N	2	o	*	Rochefort ...	30.21	73	64	NN	3	bc	3
Holyhead .....	29.99	67	62	SH	4	e	5								

No important change, beyond some clearing of the sky around London.

## 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 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.

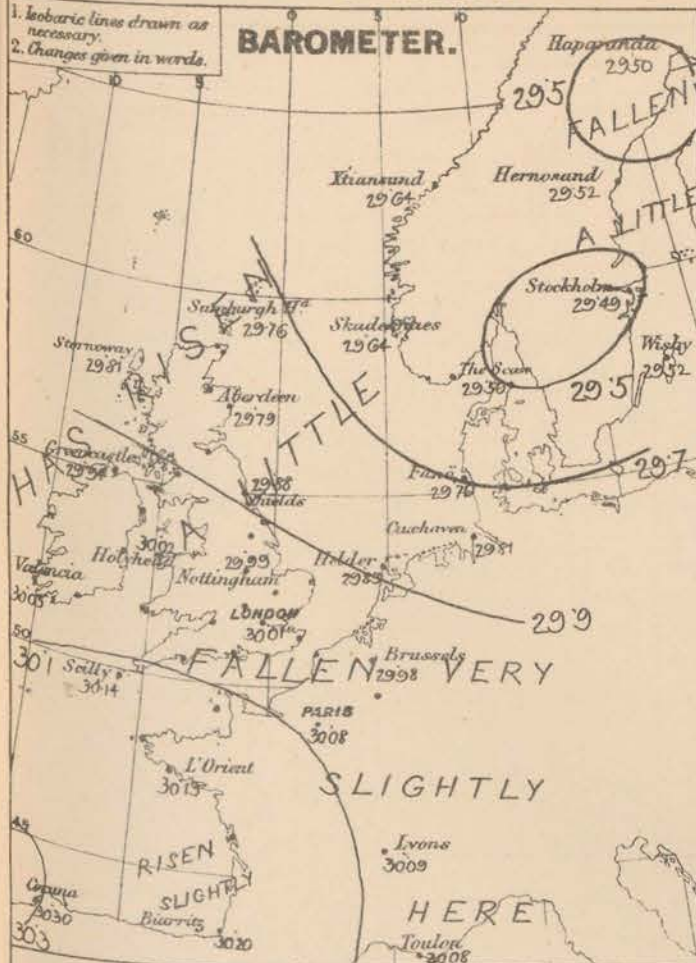
N.B.—The wind is said to "veer" when its direction changes with the sun, and to "back" when it shifts in the opposite direction.



# WEATHER CHARTS for 8 a.m. on Sunday 7<sup>th</sup> JULY 1878.

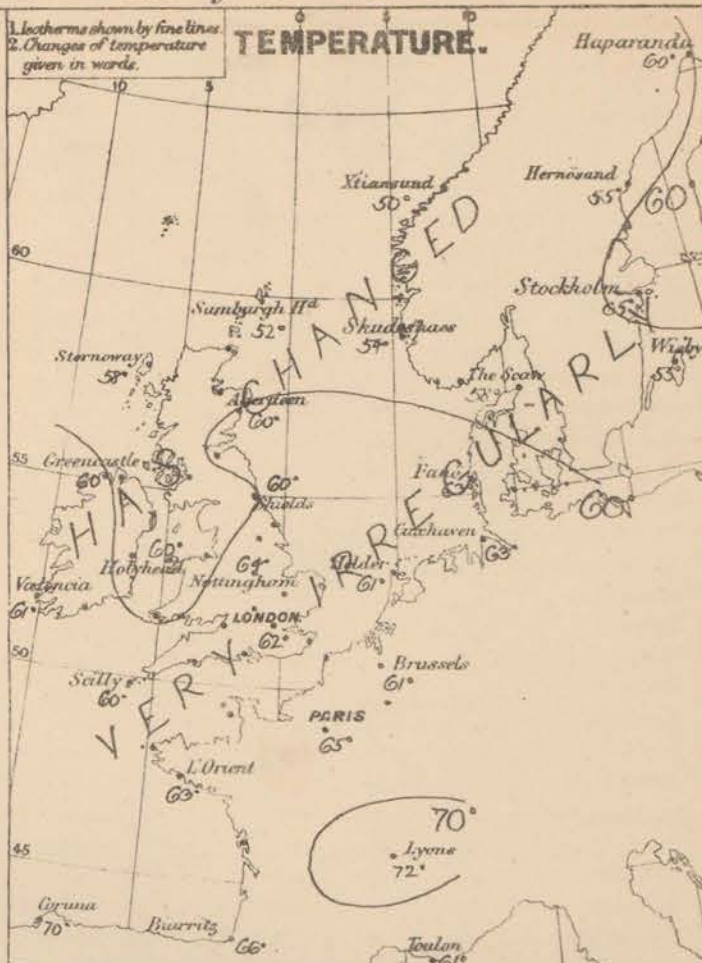
1. Isobaric lines drawn as necessary.
2. Changes given in words.

## BAROMETER.



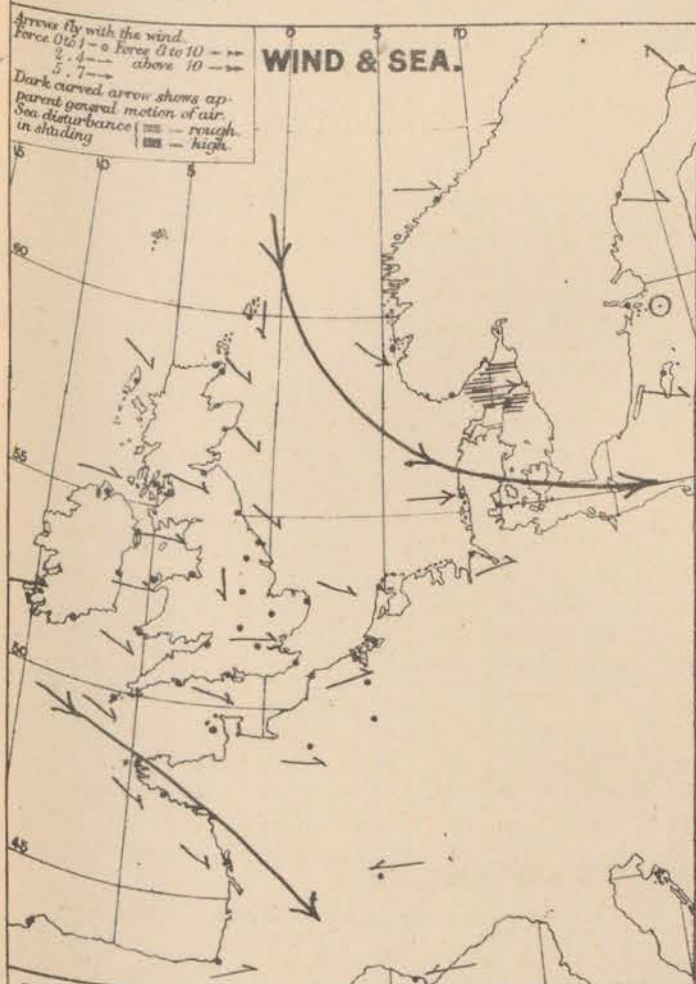
1. Isotherms shown by fine lines.
2. Changes of temperature given in words.

## TEMPERATURE.



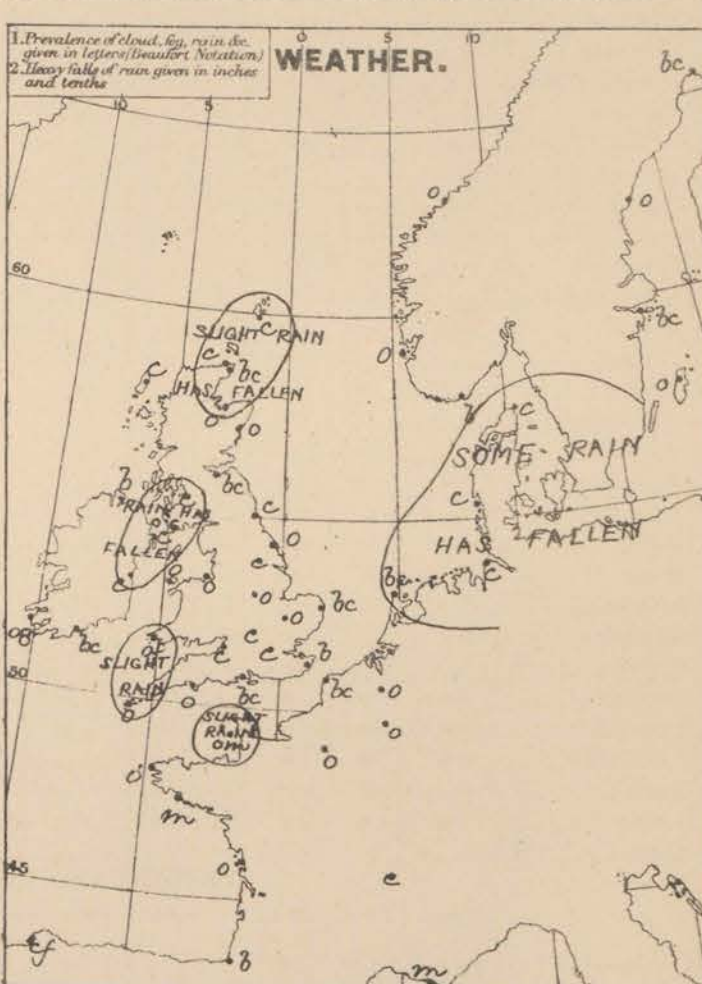
1. Force 0 to 10 —
  2. 4 — above 10 —
  3. 7 —
- Dark curved arrow shows apparent general motion of air. Sea disturbance in shading — rough — high.

## 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 a few stations, locally, but is on the whole very cloudy or overcast, and a gloomy appearance is reported from Valencia. Rain fell yesterday at several of our western and northern stations, but with the exception of Donaghadee, where 0.6 in. was measured, the amounts were very slight. Temperature has changed irregularly, but the general tendency has been to fall a little; it now varies from 52° to 63° in Scotland, from 59° to 62° in Ireland, and from 59° to 67° in England. During yesterday the thermometer rose to 75° at Cambridge, to 77° in London, and to 78° at Nottingham. Wind is light to moderate from W. or N.W. in nearly all parts of Western Europe, but in the north of Sweden a SE breeze is blowing. Sea is rather rough at the Law, moderate to slight elsewhere. Barometrical Indications The barometer has fallen slightly over the north of France and south of Sweden but risen a little in nearly all other parts. Readings are highest over the Bay of Biscay, while a slight depression lies over the south of Scandinavia, but the intervening gradients are quite moderate.

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

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

R. H. SCOTT.

Secretary.



# DAILY WEATHER REPORT

JULY 8<sup>th</sup>

1878.

STATIONS.	† YESTERDAY EVENING.						8 A.M. TO DAY.										PAST 24 HOURS.		
	Barometer at 32° F. and Sea Level.	Temp. in shade.	WIND.		Weather.	BAROMETER.		SHADE TEMP.			WIND.		Weather.	Sea. (0 to 9.)	SHADE TEMP.		Amount of Rainfall.		
			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 ...	29.47	58	Z	0	c	29.56	+ .06	54	49	- 6	N	6	bc	*	61	48	-		
Hernösand ...	29.53	58	Z	0	z	29.59	+ .07	59	52	+ 4	N	4	z	*	*	*	-		
Stockholm ...	29.52	52	NE	4	f	29.59	+ .10	53	50	- 12	N	4	f	*	*	*	0.01		
Wisby ...	29.57	60	S	2	c	29.53	+ .01	58	55	+ 3	NNH	6	c	*	*	*	-		
Christiansund ...	29.72	52	W	1	c	29.80	+ .16	53	49	+ 3	WST	1	c	2	54	45	0.04		
Skudesnaes ...	29.74	57	NNH	6	c	29.81	+ .17	54	49	0	NNH	6	c	3	54	?	-		
Oxö (Kisiansand) ...	29.58	60	NNE	4	z	29.67	+ .15	59	54	+ 3	NNE	4	z	2	63	52	-		
Skagen (The Scaw) ...	29.59	58	NNH	2	z	29.68	+ .18	60	52	+ 2	Z	0	z	0	72	52	-		
Fanö ...	29.76	56	NNH	6	c	29.78	+ .08	56	53	- 7	NNH	6	c	*	64	54	-		
Cuxhaven ...														*					
Sumburgh Head ...	29.87	54	NNH	3	bc	29.93	+ .17	54	53	+ 2	NNH	4	c	3	57	48	-		
Stornoway ...	29.94	58	N	3	bc	30.04	+ .23	58	56	0	W	2	0	1	60	54	-		
Thurso ...	29.96	59	NNH	2	z	30.04	+ .24	55	53	- 1	NNH	3	0	4	63	53	-		
Wick ...	29.94	58	NN	3	bc	30.03	+ .24	56	54	- 2	NN	3	0	1	61	48	0.02		
Nairn ...	29.94	60	NNH	2	z	30.08	+ .27	56	50	- 1	NNH	2	z	1	65	48	-		
Aberdeen ...	29.90	59	Z	0	c	30.05	+ .26	58	53	- 2	NNH	1	bc	1	63	48	-		
Leith ...	29.89	56	E	1	f	30.05	+ .23	60	57	- 3	NN	1	bc	*	72	48	0.03		
Shields ...	29.92	60	NNH	2	0	30.08	+ .20	57	54	- 3	N	2	c	2	68	50	0.17		
Scarborough ...	29.91	66	NN	2	c	30.08	+ .18	61	56	- 1	NNH	2	bc	2	67	55	-		
York ...	29.93	63	W	3	c	30.09	+ .16	58	54	- 3	NN	1	z	*	70	52	-		
Nottingham ...	29.98	67	NNH	3	0	30.09	+ .10	60	56	- 4	NNH	3	0	*	75	53	-		
Ardrossan ...	29.94	60	NNH	4	c	30.09	+ .18	58	56	- 1	NNH	2	z	1	64	52	-		
Greencastle ...	29.99	61	W	2	0	30.13	+ .19	57	56	- 3	NNH	2	f	*	67	52	0.05		
Donaghadee ...	30.00	60	NNH	3	z	30.12	+ .15	60	57	+ 1	N	3	z	2	64	53	0.01		
Kingstown ...	30.02	64	SE	2	c	30.18	+ .15	59	55	0	NN	4	bc	3	67	57	-		
Holyhead ...	30.02	63	W	1	0	30.14	+ .12	58	56	- 2	NNH	4	z	3	67	56	-		
Liverpool (Bidston) ...	30.00	60	W	1	0	30.10	+ .11	58	56	- 1	NNH	1	c	1	64	56	-		
Valencia ...	30.00	62	W	3	0	30.25	+ .20	60	57	- 1	N	3	c	3	64	57	0.12		
Roche's Point ...	30.05	60	SW	3	f	30.19	+ .12	62	58	0	NNE	3	z	3	66	58	0.22		
Pembroke ...	30.04	61	W	1	0	30.14	+ .09	61	59	+ 3	N	1	bc	1	65	56	0.08		
Portishead ...	30.08	64	W	5	c	30.09	+ .06	65	61	+ 1	NN	3	c	3	68	54	-		
Scilly ...	30.10	61	SW	4	0	30.13	- .01	62	60	+ 2	NNE	4	bc	4	65	59	0.23		
Plymouth ...	30.08	67	W	3	0	30.11	+ .02	66	62	+ 1	NNE	3	bc	*	70	57	0.05		
Hurst Castle ...	30.03	66	W	3	c	30.16	+ .02	66	61	+ 2	NE	3	z	3	72	57	-		
Dover ...	29.99	65	NNH	3	bc	30.04	+ .05	61	57	+ 6	NNH	3	0	1	71	60	0.03		
London ...	29.98	71	W	2	c	30.06	+ .05	62	57	0	NNH	1	c	*	77	54	0.02		
Oxford ...	*	*	*	*	*	30.08	+ .06	62	56	0	N	1	z	*	75	56	-		
Cambridge ...	30.00	67	NN	1	0	30.08	+ .08	60	57	- 3	N	1	0	*	72	53	-		
Yarmouth ...	29.95	63	SSE	2	bc	30.06	+ .12	60	55	- 4	NNE	2	bc	2	69	55	-		
The Helder ...	*	*	*	*	*	29.98	+ .09	59	54	- 3	NN	1	bc	*	*	*	-		
Cape Gris Nez ...	29.98	63	W	4	bc	30.06	+ .04	61	59	0	N	3	c	2	66	59	-		
Jersey ...	30.13	61	W	3	bc	30.12	- .01	62	61	+ 3	NN	1	cm	1	65	58	-		
Brest ...	30.25	?	NNH	2	0	30.16	- .06	61	59	+ 2	N	2	z	2	66	55	0.12		
L'Orient ...	30.14	66	NN	4	bc	30.10	- .03	61	61	- 2	S	2	m	2	75	57	0.59		
Rocheport ...	30.19	70	NNH	4	0	30.15	- .07	63	59	- 5	NE	2	0	3	73	59	0.08		
Biarritz ...	30.20	73	NNH	2	z	30.11	- .09	64	59	- 2	NNH	4	0	3	?	63	0.12		
Corunna ...	*	*	*	*	*									*	*	*			
Brussels ...	*	*	*	*	*									*	*	*			
Charleville ...	*	*	*	*	*	29.98	- .08	57	*	- 6	W	1	0	*	*	*	*		
Paris ...	30.02	69	W	3	c	30.06	- .02	61	57	- 4	NN	1	0	*	*	*	0.28		
Lyons ...	*	*	*	*	*	30.00	- .09	68	*	- 4	W	2	f	*	*	*	*		
Toulon ...	29.97	75	W	5	c	29.95	- .13	68	61	+ 7	W	2	c	3	77	61	-		

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

	Bar.	Dry.	Wet.	Wind.	Wes.	Sea.		Bar.	Dry.	Wet.	Wind.	Wes.	Sea.		
Skudesnaes ...	29.69	54	48	NN	8	bc	3	Valencia .....							
Thurso .....								Scilly .....							
Scarborough ...								London .....					*		
Greencastle ...							*	Rocheport ...	30.21	73	68	N	3	0	0
Holyhead .....															

## EXPLANATION OF COLUMNS.

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

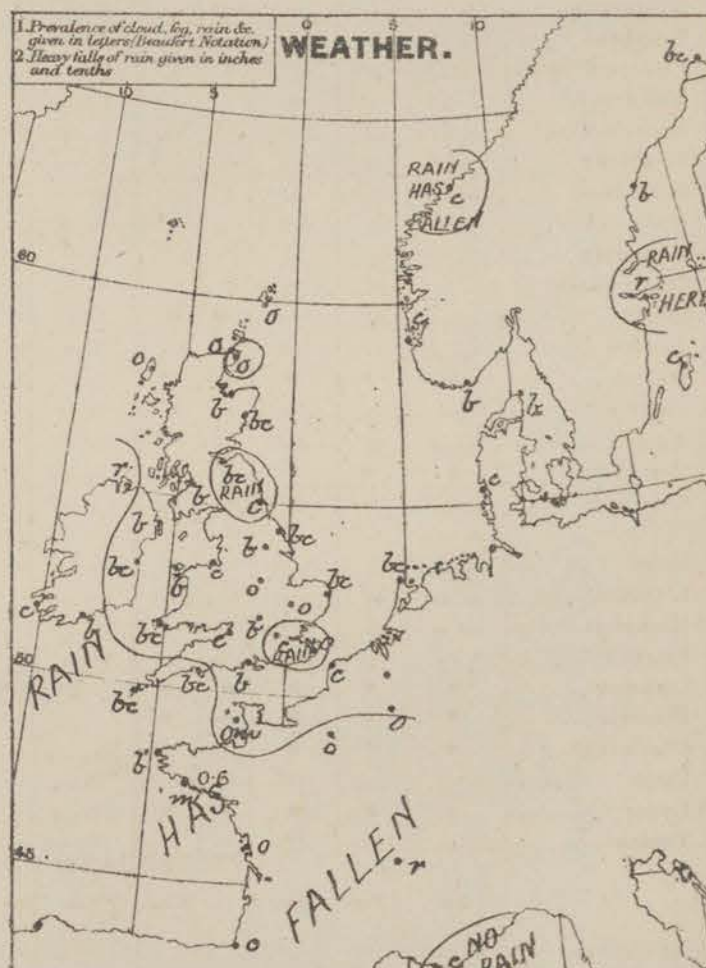
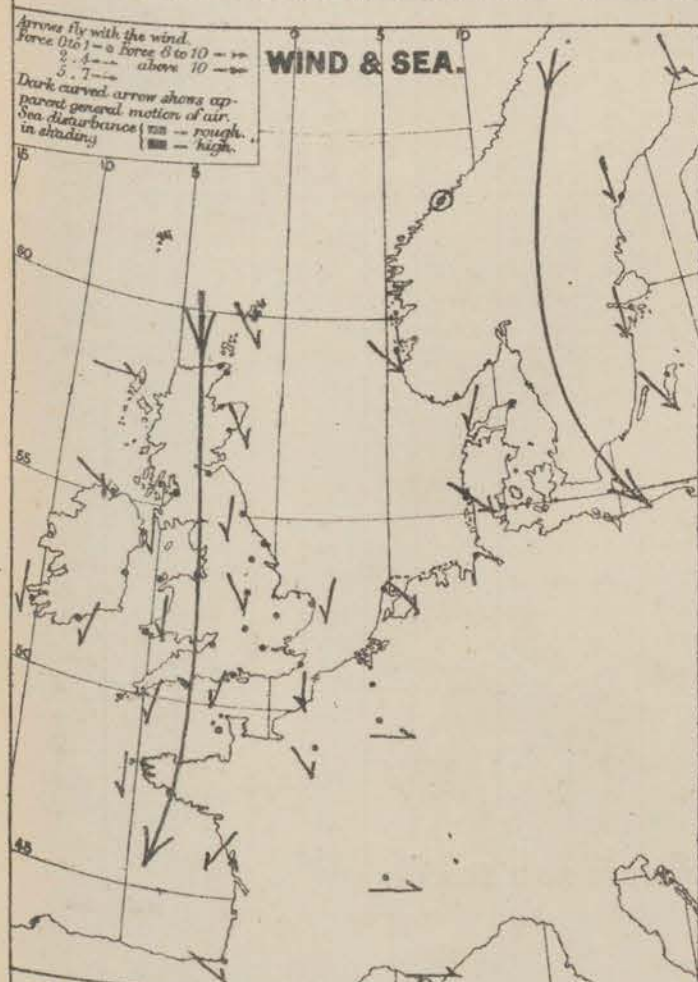
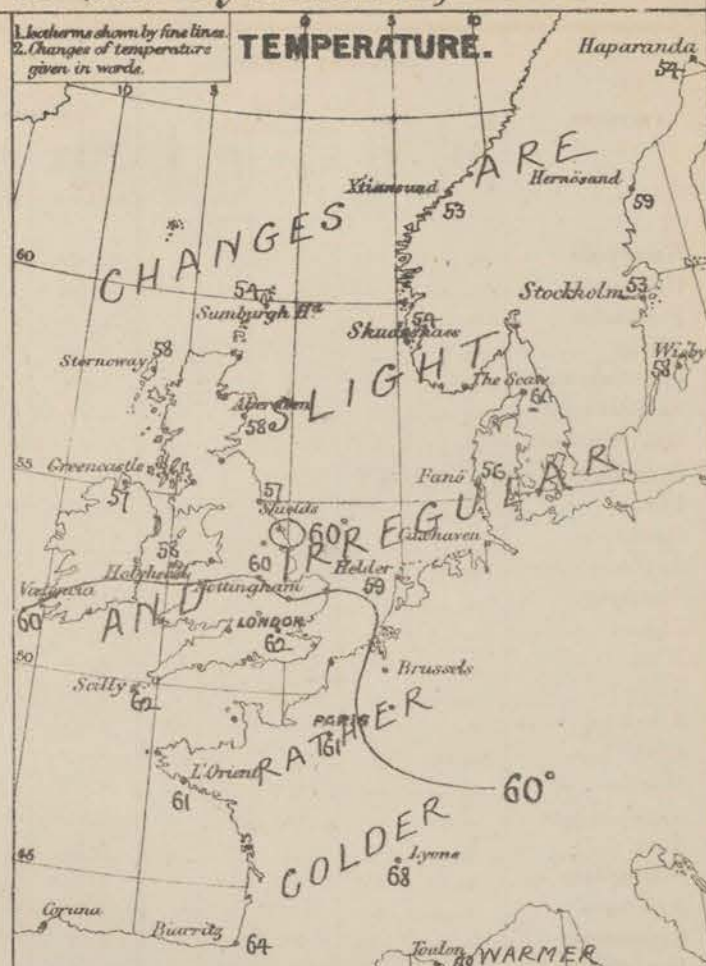
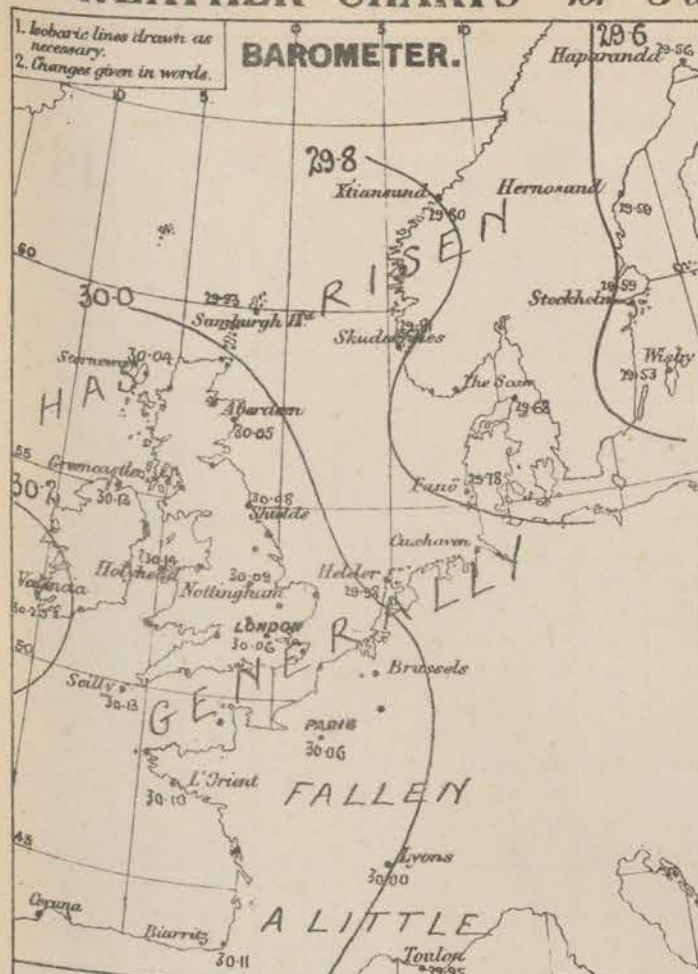
\* AN ASTERISK is inserted in all places for which information is not usually received.

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

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



WEATHER CHARTS *for 8 a.m. on Monday 8<sup>TH</sup> JULY, 1878.*



REMARKS. Weather is at present fine over nearly the whole of W<sup>e</sup> Europe, but rain is reported, locally, at Newcastle, Lyons and Stockholm. Rain fell yesterday in France, and the S<sup>e</sup> parts of England and Ireland, and some showers at a few other stations; thunder occurred at Douchadon. Temperature has decreased a little over France, but has changed little elsewhere, and is low generally for the time of year. The maximum readings yesterday were rather about 70° in coast parts of England, and in London 77° was reached. Wind is light to moderate over the United Kingdom and France. It is NW<sup>e</sup> in Scotland, chiefly in Ireland and England, and NE<sup>e</sup> at several of the S<sup>e</sup> stations. Over the E<sup>e</sup> shores of the North Sea it is rather strong from NW. Sea is very little disturbed. Barometrical Indications. The barometrical readings now vary from 30.25 ins. at Valencia to 29.55 ins. at Wisby, and the mercury is rising over the whole of the United Kingdom and North Sea, while it is falling in France. Radiants for N<sup>e</sup> winds are becoming general.



## DAILY WEATHER REPORT

JULY 9<sup>th</sup>

1878.

STATIONS.	† YESTERDAY EVENING.					8 A.M. TO DAY.										PAST 24 HOURS.		
	Barometer at 8.30 P.M. and Sea Level.	Temp. in shade.	WIND.		Weather.	BAROMETER.		SHADE TEMP.			WIND.		Weather.	Sea. (0 to 9.)	SHADE TEMP.		Amount of Rainfall.	
			Dir.	Force. (0 to 12.)		Reading at 8.30 P.M. and Sea Level.	Difference from 8.30 P.M. yesterday.	Dry.	Wet.	Difference from 8.30 P.M. yesterday.	Dir.	Force. (0 to 12.)			Max.	Min.		
Haparanda ...	29.73	55	N	4	δ	29.80	+ .24	45	42	- 9	N	6	0	*	61	41	-	
Hernösand ...	29.75	55	NNH	2	δc	29.81	+ .22	57	50	- 2	NE	4	c	*	*	*	-	
Stockholm ...	29.69	57	SH	2	δ	29.75	+ .16	57	53	+ 4	N	4	δc	*	*	*	0.08	
Wisby ...	29.68	57	NNH	4	δc	29.72	+ .19	58	54	0	N	4	δ	*	*	*	-	
Christiansund ...	29.87	55	NNE	1	δ	29.85	+ .05	56	50	+ 3	S	1	δ	1	57	45	-	
Skudesnaes ...	29.89	53	NH	4	c	29.88	+ .07	55	51	+ 1	NNH	1	0	2	55	?	-	
Oxö (Xiänsand) ...	29.79	63	ENE	2	δ	29.78	+ .11	59	54	0	NNE	2	δ	1	64	52	-	
Skagen (The Seaw) ...	29.78	59	NNH	2	δ	29.81	+ .13	60	58	0	NNH	2	δ	1	79	50	-	
Fanö ...	29.90	56	NH	6	c	29.91	+ .13	57	56	+ 1	N	6	c	*	59	54	-	
Cuxhaven ...	29.97	60	NNH	4	0	30.02		60	56		NNH	4	0	*	61	55	-	
Sumburgh Head ...	29.96	55	N	3	0	29.77	- .16	54	54	0	SSE	4	c	3	57	49	-	
Stornoway ...																		
Thurso ...	30.04	58	NNH	2	0	29.75	- .29	55	54	0	NNH	3	0	4	62	47	0.02	
Wick ...	30.02	59	NH	2	0	29.76	- .27	55	54	- 1	S	2	0	1	65	49	-	
Nairn ...	30.06	62	NNH	1	c	29.79	- .29	60	55	+ 4	N	5	c	2	67	50	-	
Aberdeen ...	30.05	59	L	0	c	29.80	- .25	57	55	- 1	NNH	2	0	2	66	50	-	
Leith ...	30.03	67	NH	2	c	29.87	- .18	61	56	+ 1	NNH	3	c	*	77	51	-	
Shields ...	30.08	59	SSE	2	0	29.95	- .13	63	58	+ 6	SH	2	om	2	63	51	-	
Scarborough ...	30.11	56	ESE	1	δ	30.02	- .06	63	58	+ 2	N	1	δc	1	63	53	-	
York ...	30.10	67	SSH	2	δ	30.05	- .04	61	57	+ 3	SH	3	δc	*	70	49	-	
Nottingham ...	30.12	66	ESE	1	0	30.09	- .03	66	61	+ 6	SH	1	δc	*	78	47	-	
Ardrossan ...	30.11	64	NNH	3	δ	29.91	- .18	58	57	0	SH	3	+	3	67	55	0.03	
Greencastle ...	30.15	63	NNH	2	δ	29.90	- .23	59	56	+ 2	N	5	0	*	67	55	0.04	
Donaghadee ...	30.16	59	SH	2	δc	29.96	- .16	59	58	- 1	SH	2	0	1	63	52	-	
Kingstown ...	30.20	66	SE	3	δc	30.04	- .14	63	59	+ 4	N	4	c	3	66	58	-	
Holyhead ...	30.18	63	NNH	2	c	30.05	- .09	59	57	+ 1	SSH	4	m	3	66	56	-	
Liverpool (Bidston) ...	30.13	61	N	2	δ	30.04	- .06	62	57	+ 4	SSH	1	0	1	63	52	-	
Valencia ...	30.27	59	N	2	0	30.16	- .09	60	58	0	NNH	2	0	3	63	57	-	
Roche's Point ...	30.23	62	N	3	δc	30.15	- .04	62	59	0	NH	3	c	3	68	58	0.04	
Pembroke ...	30.20	63	NNH	1	δ	30.12	- .02	60	58	- 1	SH	2	0	2	65	57	-	
Portishead ...	30.13	65	NNH	3	δc	30.12	+ .03	62	58	- 3	NH	2	δc	3	72	54	-	
Scilly ...	30.23	63	N	3	0	30.21	+ .08	61	60	- 1	N	4	0	4	65	59	-	
Plymouth ...	30.18	66	NH	3	δc	30.18	+ .07	62	59	- 4	NNH	2	0	*	72	59	-	
Hurst Castle ...	30.12	72	NNH	2	δc	30.15	+ .09	62	60	- 4	N	1	δc	1	73	52	-	
Dover ...	30.13	61	E	3	δ	30.16	+ .12	63	57	+ 2	SH	2	δ	1	68	52	-	
London ...	30.13	67	NNH	2	δ	30.13	+ .07	62	58	0	NNH	1	δm	*	71	50	-	
Oxford ...	*	*	*	*	*	30.11	+ .03	64	60	+ 2	S	1	δ	*	68	54	-	
Cambridge ...	30.13	70	N	?	δ	30.10	+ .02	62	58	+ 2	SH	1	δ	*	71	48	-	
Yarmouth ...	30.13	63	NNE	2	δ	30.09	+ .03	61	57	+ 1	NNH	2	δ	1	63	50	-	
The Helder ...	*	*	*	*	*	30.09	+ .11	59	55	0	N	1	δ	*	*	*	-	
Cape Gris Nez ...	30.13	61	NE	3	δc	30.18	+ .12	59	57	- 2	SSH	2	δ	1	68	54	-	
Jersey ...	30.19	65	N	2	δ	30.23	+ .11	61	57	- 1	NH	2	δ	2	68	55	-	
Brest ...	30.27	?	N	3	δ	30.32	+ .16	59	55	- 2	NNH	1	0	3	72	50	-	
L'Orient ...	30.17	63	NH	2	m	30.26	+ .16	61	57	0	NE	1	δ	1	72	54	-	
Rochefort ...	30.17	68	NH	4	δc	30.25	+ .10	66	61	+ 3	NE	3	δ	3	75	57	0.06	
Biarritz ...	30.11	68	SSH	1	T	30.15	+ .04	68	64	+ 4	NNE	3	δ	3	68	61	0.16	
Corunna ...	*	*	*	*	*										*	*	*	
Brussels ...	*	*	*	*	*	30.17		64	53		NNH	2	0	*	69	51	-	
Charleville ...	*	*	*	*	*	30.09	+ .11	58	*	+ 1	ENE	1	δ	*	*	*	*	
Paris ...	30.08	68	NH	3	c	30.18	+ .12	59	55	+ 2	NNE	1	δ	*	*	*	*	
Lyons ...	*	*	*	*	*	30.10	+ .10	68	*	0	N	2	δ	*	*	*	*	
Toulon ...	29.93	70	N	6	0	29.99	+ .04	64	63	- 4	E	4	0	3	70	?	-	

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

	Bar.	Dry.	Wet.	Wind.	Wes.	Sea.		Bar.	Dry.	Wet.	Wind.	Wes.	Sea.	
Skudesnaes ...	29.88	55	30	NNH	6	δ	Valencia .....	30.29	61	58	NN	2	0	3
Thurso .....	30.06	60	57	NNH	3	0	Scilly .....	30.22	64	62	N	4	0	4
Scarborough ...	30.13	58	54	NE	2	δ	London .....	30.12	67	61	NNH	4	0	*
Greencastle ...	30.16	64	58	NNH	2	δ	Rochefort ...	30.16	70	64	NN	3	δc	3
Holyhead .....	30.19	63	59	NNH	3	δ								

No important change except that the wind is inclined to "back" again in the west. In London heavy clouds have been passing over from the N.W. but no rain has fallen.

## 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.

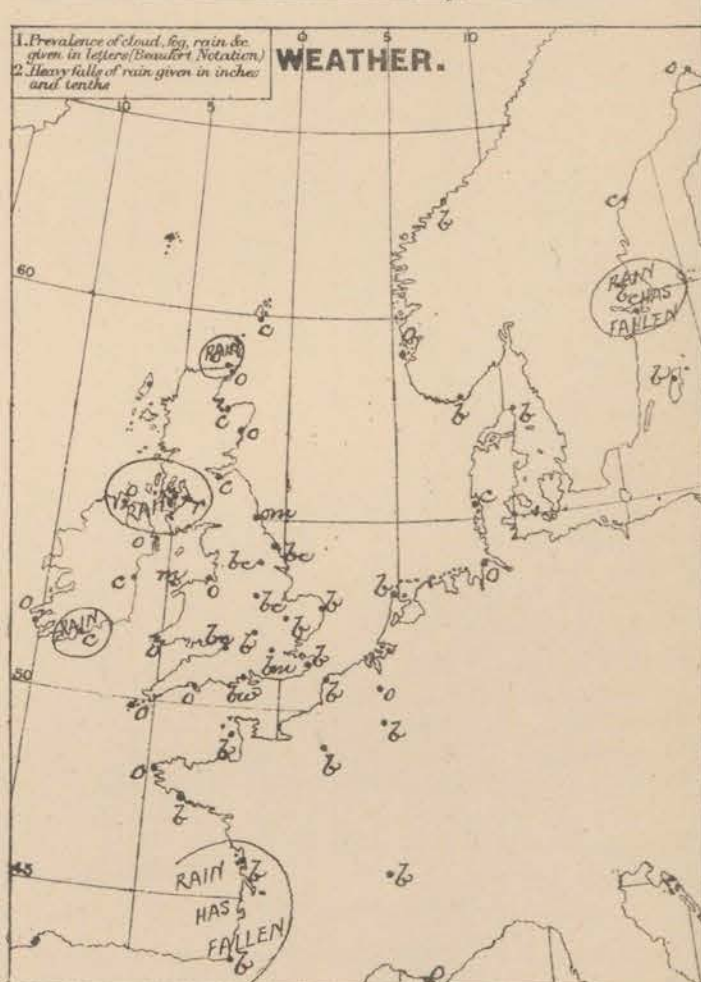
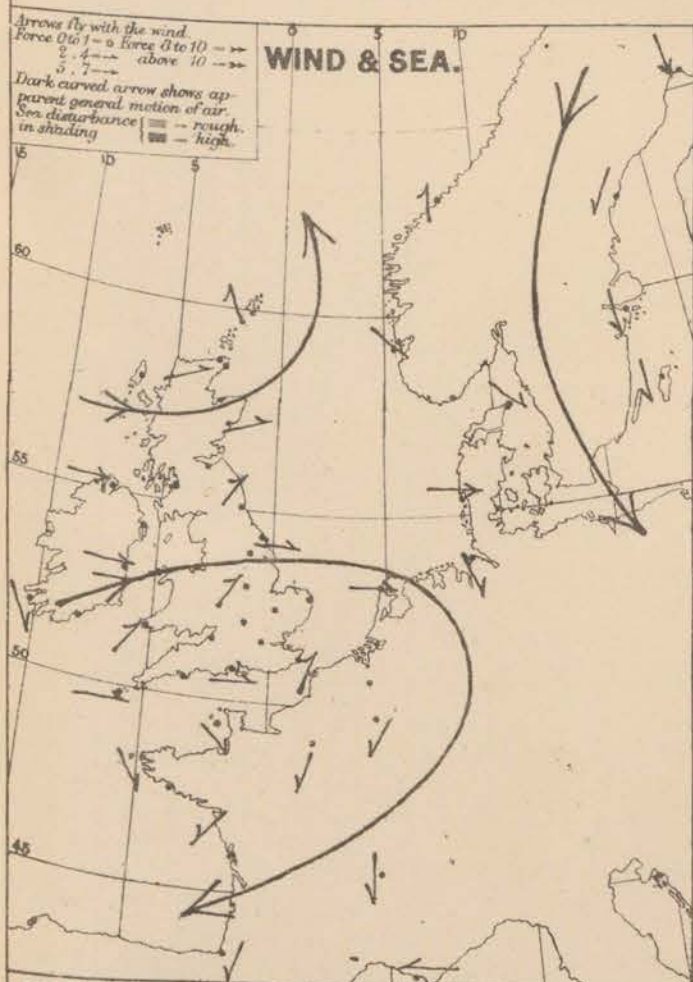
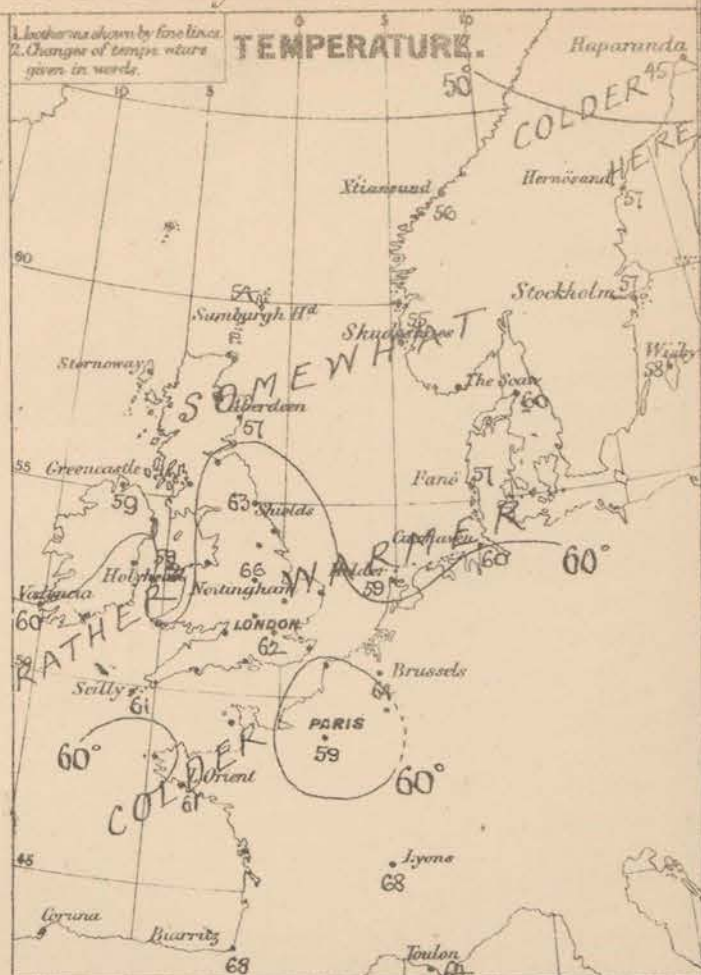
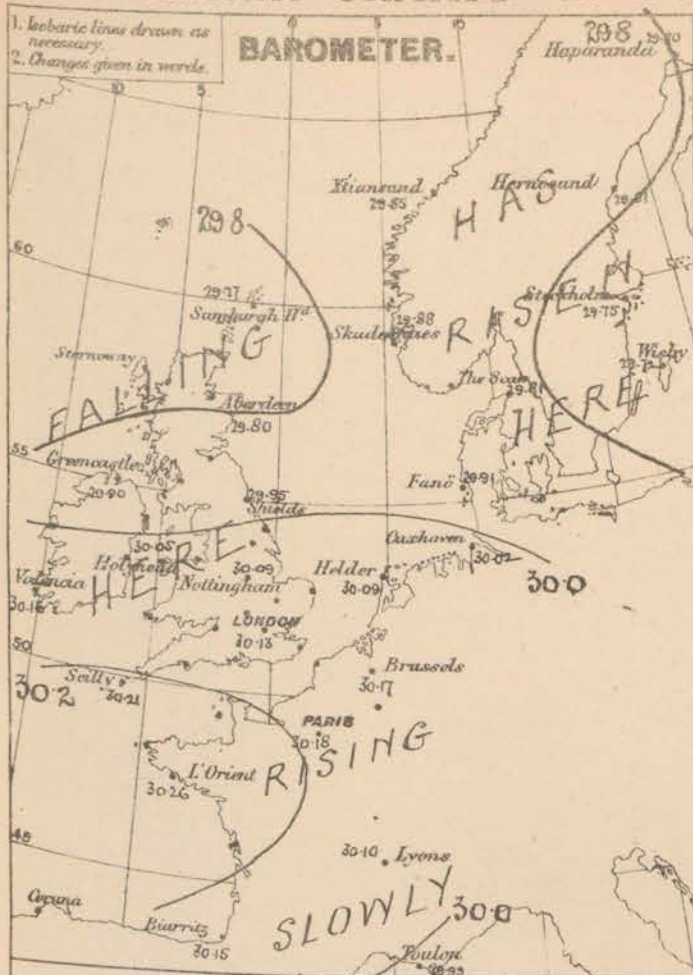
\* AN ASTERISK is inserted in all places for which information is not usually received.

† 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 Tuesday 9<sup>th</sup> JULY 1873.



**REMARKS.** Weather has become very cloudy at but the French and our E<sup>n</sup> stations, where it is clear, and rain is falling at Haparanda. During yesterday it was dry generally, though very cloudy in some places. Temperature is rather lower in the S. and higher at the Central stations than it was yesterday morning, and readings are very uniform between 60° and 65° over the greater part of our Islands. The maximum temperature in the shade yesterday were between 70° and 75° over most of the inland parts of England. Wind has backed to W. or NW in the N. and blown freshly in some places. In the Channel it is light from the W., but in the S. of Ireland and N. of France it is NW, and draws round through N over the Central Department to NE in the SW. Sea is slight & smooth except at Selly.

**Barometrical indications.** The barometer continues highest at the S<sup>n</sup> and SW stations, and is steady. In Scotland, however, it has fallen very briskly in the night, and the centre of a depression now lies over our most N<sup>n</sup> stations.

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



# DAILY WEATHER REPORT

JULY 10<sup>th</sup> 1878.

STATIONS.	† YESTERDAY EVENING.					8 A.M. TO DAY.										PART 24 HOURS		
	Barometer at 32° F. and Sea Level.	Temp. in shade.	WIND.		Weather.	BAROMETER.		SHADE TEMP.			WIND.		Weather.	Sea. (0 to 9.)	SHADE TEMP.		Amount of Rainfall.	
			Dir.	Force. (0 to 12.)		Reading at 32° F. and Sea Level.	Difference from 8 a.m. yesterday.	Dry.	Wet.	Difference from 8 a.m. yesterday.	Dir.	Force. (0 to 12.)			Max.	Min.		
Haparanda ...	29.62	55	NE	6	c	29.58	-.22	42	40	-3	NE	6	o	*	55	37	-	
Hernösand ...	29.62	59	Z	0	b	29.55	-.26	51	48	-6	E	6	o	*	*	*	0.04	
Stockholm ...	29.66	57	SW	4	b	29.56	-.21	58	52	+4	NNW	4	o	*	*	*	-	
Wisby ...	29.67	57	ENE	2	b	29.62	-.10	58	55	0	NNW	6	b	*	*	*	-	
Christiansund ...	29.68	58	NE	2	b	29.61	-.24	60	54	+4	N	1	b	1	?	45	-	
Skudesnaes ...	29.71	55	S	2	o	29.68	-.30	54	53	-1	E	2	o	2	59	?	-	
Oxö (Xtiansand) ...	29.74	58	WSW	4	c	29.62	-.16	57	54	-2	SSE	4	r	2	66	54	-	
Skagen (The Scaw) ...	29.76	57	N	2	b	29.67	-.14	58	54	-2	SSW	2	b	2	77	48	-	
Fanö ...	29.81	58	WSW	2	c	29.62	-.29	59	59	+2	WSW	4	c	*	63	54	0.04	
Cuxhaven ...	29.96	59	WSW	2	o	29.73	-.29	58	59	-2	SW	2	o	*	61	55	0.44	
Samburgh Head ...	29.96	55	SESE	4	c	29.51	-.26	54	54	0	SW	4	r	4	56	50	0.06	
Stornoway ...																		
Thurso ...	29.65	57	NNW	2	c	29.62	-.12	53	52	-2	N	3	p	4	62	51	0.12	
Wick ...	29.65	58	NNW	1	b	29.62	-.14	53	53	-2	N	2	r	1	67	57	0.04	
Nairn ...	29.68	59	N	2	c	29.66	-.13	57	53	-3	N	4	o	2	67	53	-	
Aberdeen ...	29.66	65	NNW	2	c	29.48	-.12	58	53	+1	NNW	1	c	2	70	54	0.03	
Leith ...	29.73	60	N	4	c	29.72	-.15	59	54	-2	NNW	4	b	*	66	52	-	
Shields ...	29.77	64	NNW	5	c	29.77	-.18	60	55	-3	NNW	4	b	2	66	51	-	
Scarborough ...	29.80	64	WSW	1	c	29.80	-.22	59	55	-4	N	2	c	2	67	53	-	
York ...	29.84	64	N	1	c	29.83	-.22	59	54	-2	N	3	c	*	66	53	-	
Nottingham ...	29.90	62	WSW	2	o	29.89	-.20	61	57	-5	WSW	2	o	*	74	53	-	
Ardrossan ...	29.81	59	N	4	c	29.80	-.11	57	54	-1	N	3	o	2	62	55	0.05	
Greencastle ...	29.88	61	N	3	c	29.85	-.05	57	54	-2	N	3	o	*	63	52	0.09	
Donaghadee ...	29.88	60	NNW	5	b	29.87	-.09	58	55	-1	NNW	5	c	3	66	53	-	
Kingstown ...	29.96	65	NNW	5	b	29.96	-.08	58	54	-5	NNW	5	c	4	66	56	-	
Holyhead ...	29.94	63	WSW	2	o	29.95	-.10	57	54	-2	N	4	o	3	66	56	-	
Liverpool (Biston) ...	29.89	61	N	3	c	29.89	-.15	57	55	-5	N	4	o	3	64	54	0.07	
Valencia ...	30.11	59	NNW	3	o	30.12	-.12	59	55	-1	NNW	3	o	3	64	55	-	
Roche's Point ...	30.08	60	NNW	5	c	30.06	-.09	58	54	-4	NNW	3	c	3	65	55	-	
Pembroke ...	29.99	61	NNW	3	c	30.01	-.14	57	54	-3	NNW	2	b	2	62	56	-	
Portishead ...	29.93	65	WSW	4	r	29.94	-.18	61	58	-1	N	4	o	5	69	56	0.02	
Seilly ...	30.11	60	NNW	5	o	30.09	-.12	60	58	-1	NNW	4	o	4	62	58	0.01	
Plymouth ...	30.03	63	NNW	3	o	30.03	-.15	61	58	-1	NNW	3	o	*	69	56	-	
Hurst Castle ...	30.00	60	N	0	o	29.96	-.19	64	60	+2	NNW	3	b	3	69	54	0.02	
Dover ...	29.99	66	WSW	3	o	29.89	-.27	65	59	+2	N	2	b	1	67	58	0.06	
London ...	29.96	68	WSW	3	og	29.93	-.20	61	57	-1	NNW	2	c	*	73	54	0.03	
Oxford ...	*	*	*	*	*	29.94	-.13	61	57	-3	N	2	o	*	69	53	-	
Cambridge ...	29.92	64	WSW	1	o	29.89	-.21	61	56	-1	NNW	1	c	*	75	54	-	
Yarmouth ...	29.91	67	N	3	r	29.85	-.24	61	57	0	NNW	3	c	2	73	52	0.04	
The Helder ...	*	*	*	*	*	29.78	-.31	64	58	+2	N	2	c	*	*	*	0.05	
Cape Gris Nez ...	30.02	63	WSW	4	o	29.94	-.24	59	57	0	NNW	3	o	3	68	59	0.12	
Jersey ...	30.13	64	NNW	4	o	30.07	-.16	60	58	-1	NNW	3	c	3	61	57	0.05	
Brest ...	30.24	?	N	3	o	30.17	-.15	59	57	0	NNW	2	o	2	64	54	-	
L'Orient ...	30.21	63	NNW	4	o	30.11	-.15	61	57	0	NNW	3	mv	2	72	55	-	
Rochefort ...	30.23	73	NNW	5	b	30.17	-.08	64	63	-2	N	2	r	3	77	57	0.20	
Biarritz ...	30.19	72	NNW	3	b	30.16	+0.01	68	64	0	Z	0	b	3	72	63	-	
Corunna ...	*	*	*	*	*	30.27	-.16	66	*	-4	NE	3	o	1	*	*	*	
Brussels ...	*	*	*	*	*	29.88	-.29	62	59	-2	SW	5	c	*	73	57	0.08	
Charleville ...	*	*	*	*	*	29.91	-.18	60	*	+2	WSW	3	o	*	*	*	*	
Paris ...	30.06	71	N	3	b	30.01	-.17	62	59	+3	NNW	1	o	*	*	*	0.12	
Lyon ...	*	*	*	*	*	30.09	-.01	72	*	+4	NE	2	?	*	*	*	0	
Toulon ...	30.04	73	Z	0	b	30.03	+0.04	68	63	+4	E	2	mv	2	71	64	-	

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

	Bar.	Dry.	Wet.	Wind.	Wen.	Sea.		Bar.	Dry.	Wet.	Wind.	Wen.	Sea.		
Skudesnaes ...	29.78	59	55	S	4	c	3	Valencia .....	30.14	62	59	NNW	3	om	4
Thurso .....	29.67	58	56	W	2	b	3	Seilly .....	30.15	62	60	N	4	op	4
Scarborough ...	29.87	64	60	W	1	o	1	London .....	30.03	73	64	SW	3	c	*
Greencastle ...	29.89	61	57	N	2	o	2	Rochefort ...	30.23	72	64	NNW	4	b	3
Holyhead .....	29.92	64	61	W	3	o	2								

No important change.

## EXPLANATION OF COLUMNS

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

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

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

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







# DAILY WEATHER REPORT

JULY 11<sup>th</sup> 1878.

STATIONS.	† YESTERDAY EVENING.						8 A.M. TO DAY.										LAST 24 HOURS.		
	Barometer at 32° F. and Sea Level.	Temp. in shade.	WIND.		Weather.	Barometer. Reading at 32° F. and Sea Level.	SHADE TEMP.			WIND.		Weather.	Sea. (0 to 9.)	SHADE TEMP.		Amount of Rainfall.			
			Direc.	Force. (0 to 12).			Dry.	Wet.	Difference from 8 a.m. yesterday.	Direc.	Force. (0 to 12).			Max.	Min.				
Haparanda ...	29.62	49	NE	4	0	29.67	+ .09	50	48	+ 8	NE	2	0	*	50	39	0.04		
Hernösand ...	29.58	47	NNW	4	†	29.58	+ .03	52	49	+ 1	NNE	6	0	*	*	*	0.08		
Stockholm ...	29.55	49	N	2	0	29.47	- .07	57	49	- 7	NNW	4	0	*	*	*	0.20		
Wisby ...	29.56	55	SSE	4	0	29.50	- .12	57	52	- 1	ENE	4	0	*	*	*	-		
Christiansund ...	29.55	58	W	2	c	29.58	- .08	57	55	- 3	NNW	2	c	3	63	52	-		
Skudesnaes ...	29.58	53	NNW	2	0	29.55	- .03	57	53	+ 3	NNW	4	0	2	?	?	-		
Oxö (Xtiansand) ...	29.55	59	ESE	2	†	29.47	- .15	58	54	+ 1	W	2	c	2	59	54	-		
Skagen (The Saaw) ...	29.54	58	Z	0	0	29.49	- .18	60	56	+ 2	W	2	0	1	70	52	-		
Fanö ...	29.67	57	W	4	0	29.60	- .02	58	55	- 1	W	5	c	*	64	54	0.08		
Cuxhaven ...	29.74	62	NNW	4	0	29.70	- .03	61	59	+ 3	NNW	3	c	*	63	54	0.02		
Sumburgh Head ...	29.55	53	SW	4	0	29.56	+ .05	54	53	0	W	1	bc	0	56	49	0.01		
Stornoway ...	29.63	55	NNW	4	†	29.71	+ .07	54	54	- 2	NNW	3	q	4	56	52	0.20		
Thurso ...	29.62	54	W	3	†	29.66	+ .04	53	52	0	W	3	omv	4	60	50	0.11		
Wick ...	29.64	56	W	3	0	29.65	+ .03	54	53	+ 1	NNW	3	0	1	62	49	0.03		
Nairn ...	29.67	56	W	1	0	29.71	+ .05	56	52	- 1	W	1	c	1	60	53	-		
Aberdeen ...	29.68	61	NNW	3	c	29.69	+ .01	57	53	- 1	NNW	2	0	2	65	54	0.05		
Leith ...	29.74	60	W	4	0	29.70	- .02	61	56	+ 2	NNW	3	bc	*	69	53	-		
Shields ...	29.77	64	W	5	3	29.73	- .04	58	55	- 2	NNW	3	c	2	65	53	0.02		
Scarborough ...	29.80	62	W	2	bc	29.74	- .06	60	56	+ 1	NNW	2	0	2	66	54	0.03		
York ...	29.84	61	W	4	0	29.77	- .06	59	55	0	W	4	0	*	64	54	-		
Nottingham ...	29.90	63	WSW	2	0	29.86	- .03	59	57	- 2	WSW	3	0	*	69	53	-		
Ardrossan ...	29.82	57	W	3	0	29.77	- .03	57	54	0	NNW	4	c	4	62	55	0.02		
Greencastle ...	29.89	58	W	3	0	29.85	0.00	55	54	- 2	W	2	q	*	61	53	0.10		
Donaghadee ...	29.90	58	W	3	c	29.86	- .01	55	54	- 3	NNW	3	c	2	65	54	-		
Kingstown ...	29.98	59	NNW	5	†	29.94	- .02	57	54	- 1	NNW	5	c	4	62	55	0.02		
Holyhead ...	29.96	59	W	4	0	29.91	- .04	57	55	0	NNW	4	c	4	63	56	-		
Liverpool (Bidston) ...	29.91	58	W	3	0	29.88	- .04	57	54	0	W	6	0	4	60	55	-		
Valencia ...	30.13	58	NNW	3	0	30.11	- .01	58	55	- 1	NNW	2	0	3	62	55	-		
Roche's Point ...	30.09	57	NNW	4	0	30.05	- .01	59	54	+ 1	NNW	4	0	3	64	55	-		
Pembroke ...	30.02	59	NNW	3	0	29.97	- .04	55	54	- 2	NNW	4	c	3	59	54	0.02		
Portishead ...	29.96	63	NNW	4	0	29.92	- .02	56	55	- 5	WSW	3	0	4	68	55	-		
Silly ...	30.11	61	NNW	5	0	30.10	+ .01	59	56	- 1	NNW	5	0	5	64	57	-		
Plymouth ...	30.04	63	NNW	4	0	30.02	- .01	59	55	- 2	NNW	4	0	*	67	56	-		
Hurst Castle ...	29.96	65	NNW	3	0	29.96	0.00	60	57	- 4	NNW	3	0	4	70	57	-		
Dover ...	29.92	63	NNW	1	bc	29.91	+ .02	59	55	- 6	WSW	3	bcg	2	68	57	-		
London ...	29.93	65	NNW	2	0	29.97	+ .04	59	55	- 2	WSW	2	0	*	69	55	-		
Oxford ...	*	*	*	*	*	29.90	- .04	58	55	- 3	W	1	0	*	65	55	-		
Cambridge ...	29.90	61	W	1	0	29.85	- .04	57	54	- 4	SW	1	0	*	67	53	-		
Yarmouth ...	29.87	62	NNW	3	0	29.83	- .02	57	55	- 4	?	3	†	2	64	52	-		
The Helder ...	*	*	*	*	*	29.75	- .03	60	57	- 1	WSW	2	0	*	*	*	-		
Cape Gris Nez ...	29.93	61	SW	4	0	29.92	- .02	57	55	- 2	NNW	4	0	3	64	57	-		
Jersey ...	30.08	61	NNW	3	bc	30.08	+ .01	60	58	0	NNW	3	c	3	64	56	-		
Brest ...	30.20	?	N	3	3	30.19	+ .02	59	57	0	NNW	2	0	2	64	55	-		
L'Orient ...	30.10	64	NNW	2	c	30.15	+ .04	59	55	- 2	NNW	3	c	2	72	54	-		
Rocheport ...	30.16	68	NNW	3	0	30.21	+ .04	63	59	- 1	NNE	2	bc	3	72	59	0.04		
Biarritz ...	30.13	70	NNW	4	3	30.17	+ .01	66	59	- 2	NNW	3	c	3	70	59	0.02		
Cerunna ...	*	*	*	*	*				*					*	*	*	*		
Brussels ...	*	*	*	*	*	29.87	- .01	59	57	- 3	WSW	1	0	*	66	56	-		
Charleville ...	*	*	*	*	*	29.88	- .03	57	*	- 3	WSW	1	0	*	*	*	*		
Paris ...	29.99	66	W	3	0	29.99	- .02	60	56	- 2	W	4	0	*	*	*	-		
Lyons ...	*	*	*	*	*	30.04	- .05	68	*	- 4	NNW	2	†	*	*	*	*		
Toulon ...	29.98	73	W	5	5	29.91	- .12	75	61	+ 7	W	4	m	3	77	66	-		

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

	Bar.	Dry.	Wet.	Wind.	Wea.	Sea.		Bar.	Dry.	Wet.	Wind.	Wea.	Sea.		
Skudesnaes ...	29.59	55	54	NNN	4	f	2	Valencia .....	30.13	59	56	NNN	3	0	3
Thurso .....	29.65	55	54	N	3	rf	4	Scilly .....	30.11	62	58	NN	5	c	5
Scarborough ...	29.81	65	57	NNN	2	c	2	London .....	29.93	66	60	NNN	2	c	*
Greencastle ...	29.89	59	54	NNN	3	0	*	Rocheport ...	? 30.14	68	64	NN	3	bc	3
Holyhead .....	29.97	60	57	N	4	0	3								

*No important change.*

## EXPLANATION OF COLUMNS.

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

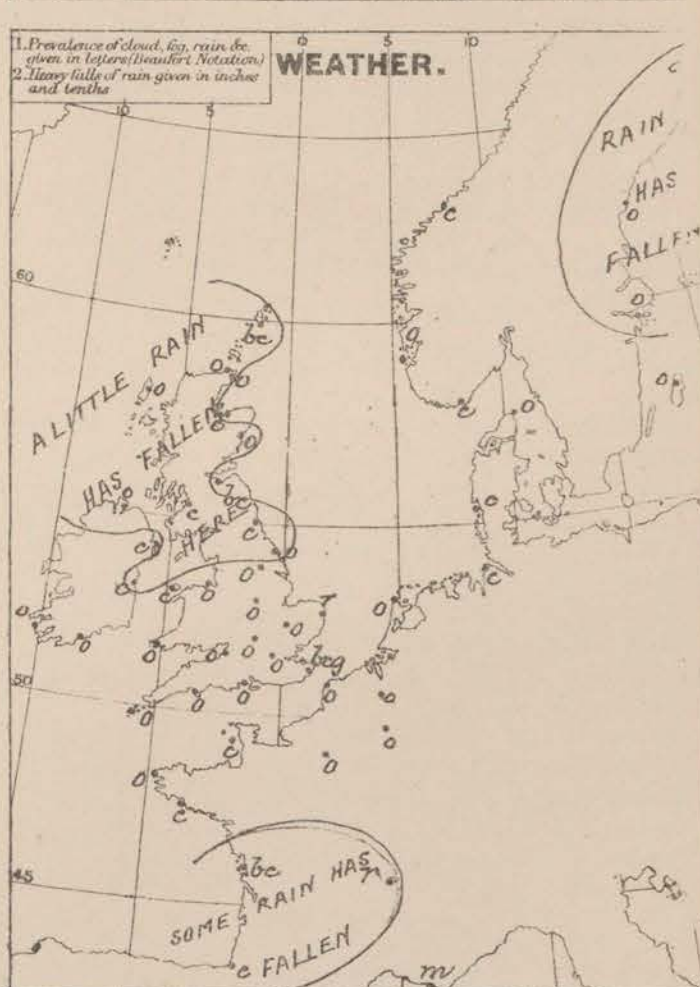
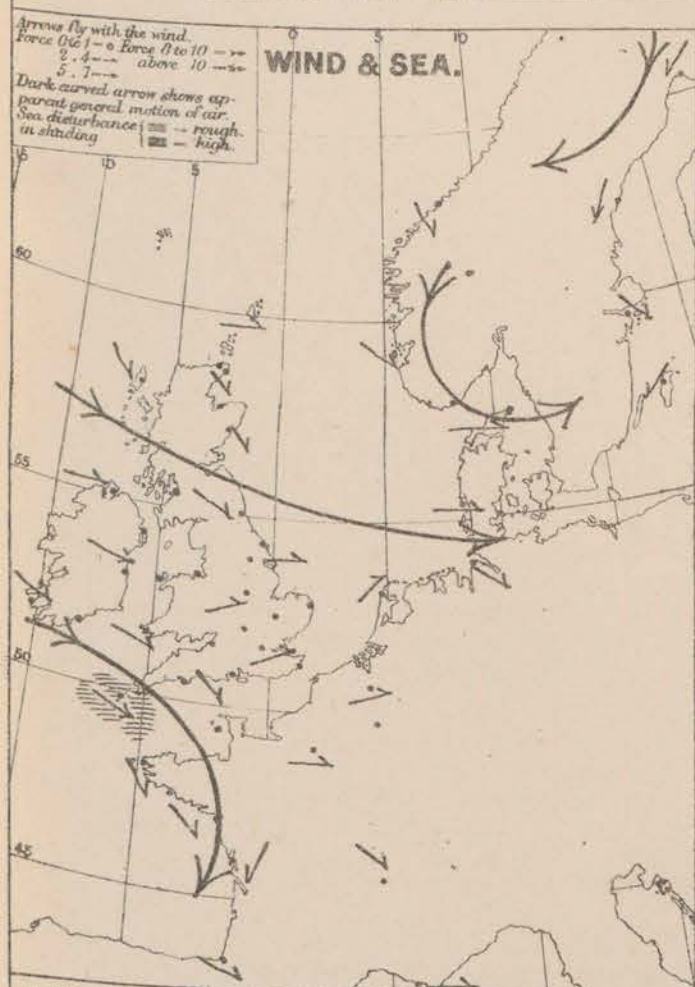
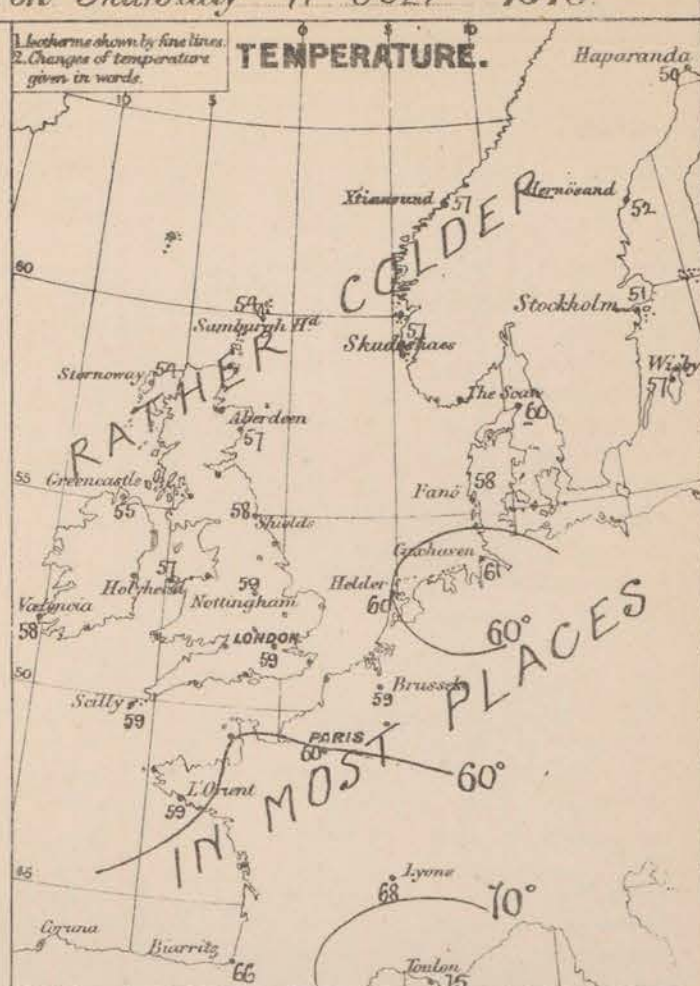
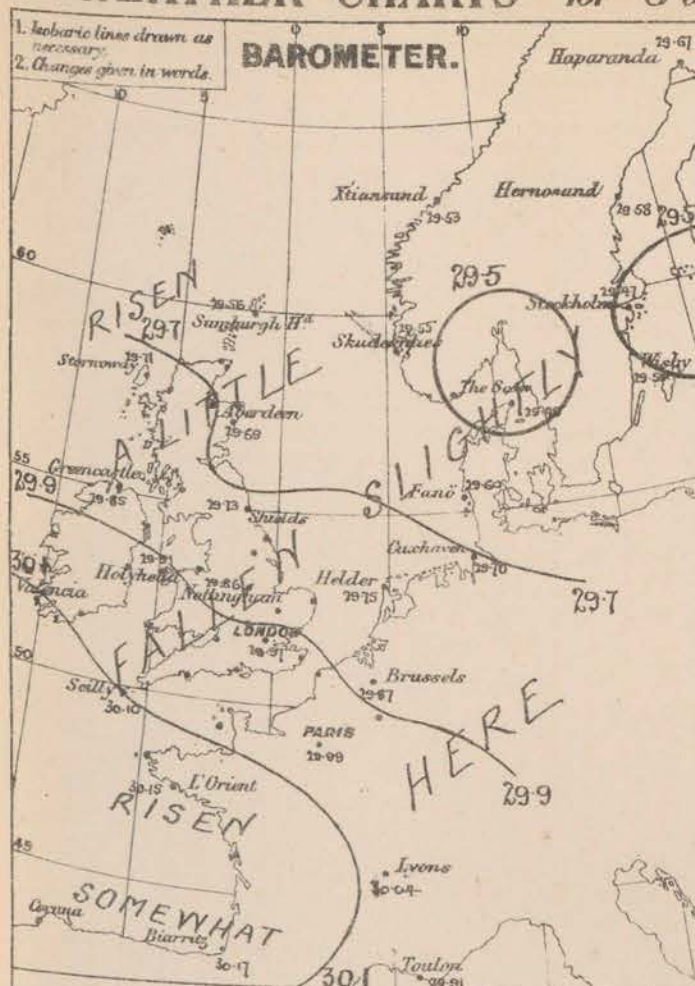
\* AN ASTERISK is inserted in all places for which information is not usually received.

† 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 11<sup>th</sup> JULY 1878



**REMARKS.** Weather is overcast or very cloudy this morning over nearly the whole of W. Europe, with rain at a few isolated stations. Rain fell yesterday at several of the N. and E. stations, but the quantity was small everywhere. Temperature is decreasing slowly, and is now below 60° all over the United Kingdom. In the N. of Scotland it is as low as 54°, and has been below 50° during the night. Over our S. countries it is 59°. The maximum readings of the day were below 70° in our Islands at all stations excepting Hunt Castle. Wind is light to moderate in force generally, and is rather variable from W. to NW in all parts of the United Kingdom. Over the North Sea, Holland, and the NE. of France it is W., where in the Bay of Biscay it is light from NW to NNE. Sea is rather rough at Scilly, moderate to smooth elsewhere.

Barometrical Indications. Pressure is not changing much over W. Europe, but is rather unsteady. The barometrical readings this morning vary from 30.2 ins. at Rookhfat and 30.1 ins. at Valencia to 29.5 ins. in the S. of Norway. Further to the N. the barometer is higher. Some slight irregularities are observed in the readings over the United Kingdom.

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 JULY 12<sup>th</sup> 1878.

STATIONS.	† YESTERDAY EVENING.					8 A.M. TO DAY.										LAST 24 HOURS.		
	Barometer at 32° F. and Sea Level.	Temp. in shade.	WIND.		Weather.	BAROMETER.		SHADE TEMP.			WIND.		Weather.	Sea. (0 to 9.)	SHADE TEMP.			
			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.	Amount of Rainfall.	
Haparanda	29.64	55	NE	4	0	29.67	-.03	56	52	+ 6	NE	4	0	*	57	46	-	
Hernösand	29.59	54	NE	4	0	29.54	-.04	53	51	+ 1	NNE	6	0	*	*	*	-	
Stockholm	29.48	53	N	4	0	29.49	+ .02	54	53	+ 3	NNW	4	0	*	*	*	0.20	
Wisby	29.54	55	NNW	4	0	29.50	.00	56	54	- 1	NNW	6	0	*	*	*	0.24	
Christiansund	29.56	60	N	3	0	29.60	+ .07	57	55	0	WSW	1	0	2	61	48	-	
Skudesnaes	29.57	56	NNW	4	0	29.65	+ .10	58	54	+ 1	Z	0	0	2	?	55	-	
Oxö (Tiansand)	29.56	59	ENE	4	0	29.59	+ .12	58	54	0	N	2	0	2	66	52	-	
Skagen (The Sea)	29.53	58	ENE	3	0	29.60	+ .11	59	55	- 1	NE	4	0	4	68	52	0.04	
Fanö	29.58	56	N	3	0	29.61	+ .03	58	57	0	NN	4	0	*	63	52	-	
Cuxhaven	29.65	61	NNW	3	7	29.67	-.03	60	58	- 1	NNW	3	0	*	63	55	0.12	
Sumburgh Head	29.66	54	NNE	2	0	29.86	+ .30	55	53	+ 1	N	4	0	4	59	49	0.02	
Stornoway	29.73	56	N	5	0	29.86	+ .15	57	55	+ 3	ENE	4	0	2	58	51	0.05	
Thurso	29.71	54	NN	2	0	29.84	+ .18	55	54	+ 2	NNW	2	0	4	56	51	0.04	
Wick	29.70	55	NN	3	0	29.82	+ .17	56	53	+ 2	N	3	0	1	58	49	-	
Nairn	29.74	55	N	1	0	29.85	+ .14	57	52	+ 1	Z	0	0	0	61	52	-	
Aberdeen	29.72	57	N	2	0	29.82	+ .13	57	53	0	NNW	2	0	2	60	53	0.04	
Leith	29.71	63	NN	4	0	29.82	+ .12	55	53	- 6	N	1	0	*	69	52	-	
Shields	29.75	58	S	1	0	29.84	+ .11	54	53	- 4	NN	2	0	2	64	58	0.01	
Scarborough	29.77	57	NNE	1	0	29.84	+ .10	57	54	- 3	N	1	0	1	63	55	-	
York	29.78	60	N	3	0	29.85	+ .08	58	54	- 1	NN	1	0	*	66	53	-	
Nottingham	29.87	62	WSW	3	0	29.89	+ .03	61	57	+ 2	N	1	0	*	68	49	-	
Ardrossan	29.81	57	N	3	0	29.85	+ .08	57	54	0	NNW	2	0	2	61	55	-	
Greencastle	29.88	56	NNW	2	0	29.88	+ .03	56	53	+ 1	NNW	2	0	*	60	50	0.09	
Donaghadee	29.86	58	NNW	5	0	29.89	+ .03	57	55	+ 2	N	3	0	2	61	53	-	
Kingstown	29.93	64	NNW	5	0	29.94	.00	57	54	0	NNW	4	0	3	65	55	0.09	
Holyhead	29.90	61	N	4	0	29.93	+ .03	57	55	0	NN	3	0	2	63	56	-	
Liverpool (Bidston)	29.85	58	N	4	0	29.89	+ .04	56	54	- 1	NNW	3	0	2	61	54	-	
Valencia	30.07	60	NN	1	0	29.94	-.17	60	60	+ 2	SW	3	3	3	65	57	0.37	
Roche's Point	30.05	59	NN	4	0	29.98	-.07	60	58	+ 1	SW	2	0	3	66	58	-	
Pembroke	29.97	58	NNW	4	0	29.96	-.01	58	54	+ 3	NNW	2	0	2	59	55	-	
Portishead	29.93	63	NNW	4	0	29.92	.00	62	58	+ 6	NNW	3	0	3	69	55	-	
Scilly	30.08	60	NNW	8	0	30.04	-.06	60	60	+ 1	N	3	0	4	62	59	-	
Plymouth	30.01	63	NN	4	0	29.99	-.03	62	59	+ 3	NNW	2	0	*	66	57	-	
Hurst Castle	29.93	66	NN	4	0	29.94	-.02	62	60	+ 2	NN	3	0	4	67	58	-	
Dover	29.86	64	NNW	3	0	29.90	-.04	61	59	+ 2	NNW	2	0	2	67	57	-	
London	29.86	66	NNW	2	0	29.90	-.04	61	57	+ 2	NN	1	0	*	68	56	-	
Oxford	*	*	*	*	*	29.90	.00	60	56	+ 2	NN	1	0	*	65	54	-	
Cambridge	29.82	64	NN	1	0	29.87	+ .05	58	55	+ 1	NNW	1	0	*	65	55	-	
Yarmouth	29.79	60	NNW	2	0	29.86	+ .07	59	55	+ 2	NNW	2	0	1	62	52	0.12	
The Helder	*	*	*	*	*	29.78	+ .03	59	55	- 1	NN	1	0	*	*	*	0.04	
Cape Gris Nez	29.88	61	WSW	5	0	29.92	.00	59	57	+ 2	N	3	0	2	63	57	-	
Jersey	30.06	60	N	4	0	30.04	-.04	61	59	+ 1	N	3	0	3	64	47	-	
Brest	30.01	?	NN	2	0	30.14	-.15	59	55	0	NNW	2	0	3	66	55	-	
L'Orient	30.13	61	NN	4	0	30.10	-.05	63	59	+ 4	NNW	3	0	2	70	57	-	
Rocheport	30.20	70	NN	3	0	30.17	-.04	62	59	- 1	NN	3	0	3	70	57	-	
Biarritz	30.18	72	NNW	3	0	30.17	.00	64	61	- 2	SSE	1	0	5	?	61	-	
Corunna	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	
Brussels	*	*	*	*	*	29.87	.00	59	55	0	N	4	0	*	64	54	0.43	
Charleville	*	*	*	*	*	29.88	.00	57	56	0	N	3	0	*	*	*	*	
Paris	29.99	60	N	3	0	30.01	+ .02	60	56	0	N	2	0	*	*	*	-	
Lyons	*	*	*	*	*	30.04	.00	68	5*	0	NNW	4	0	*	*	*	*	
Toulon	29.86	70	NN	9	0	29.86	-.05	64	57	- 11	NN	8	0	7	75	?	-	

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

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

	Bar.	Dry.	Wet.	Wind.	Wes.	Sea.		Bar.	Dry.	Wet.	Wind.	Wes.	Sea.		
Skudesnaes ...	29.24	55	54	NN	6	C	2	Valencia .....	30.10	63	58	NN	2	C	3
Thurso .....	29.70	55	54	NNN	3	0	4	Scilly .....	30.09	62	58	NNN	5	C	5
Scarborough ...	29.76	59	56	N	1	0	2	London .....	29.88	65	60	WSN	2	0	*
Greencastle ...	29.88	58	55	N	2	0	*	Rocheport ...	30.20	68	63	NN	4	0C	3
Holyhead .....	29.91	60	57	NNN	4	C	4								

No important change.

## EXPLANATION OF COLUMNS

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

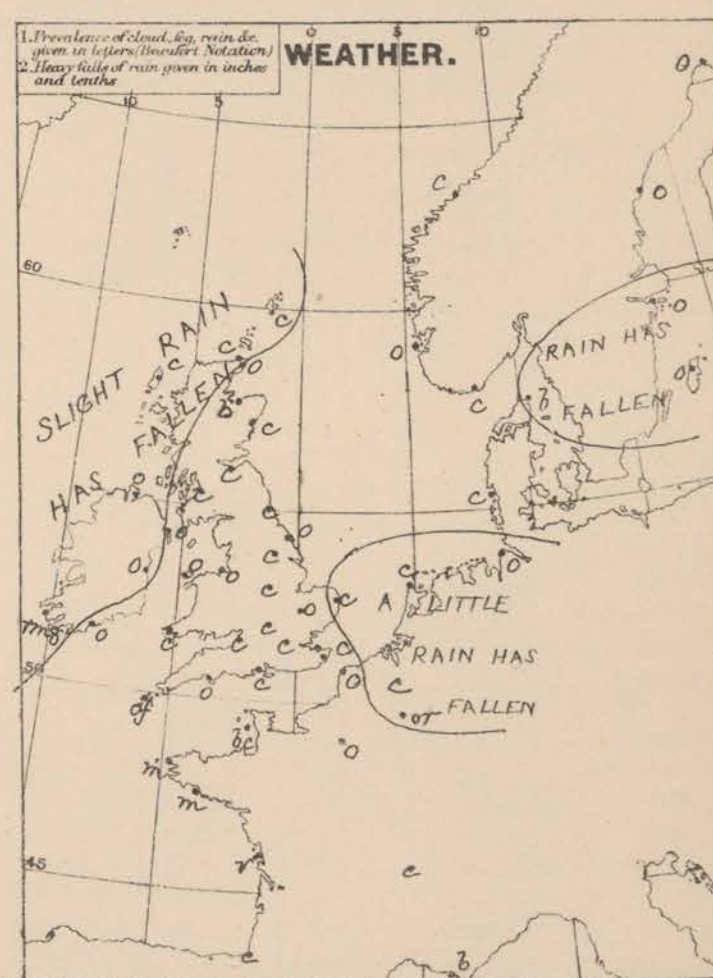
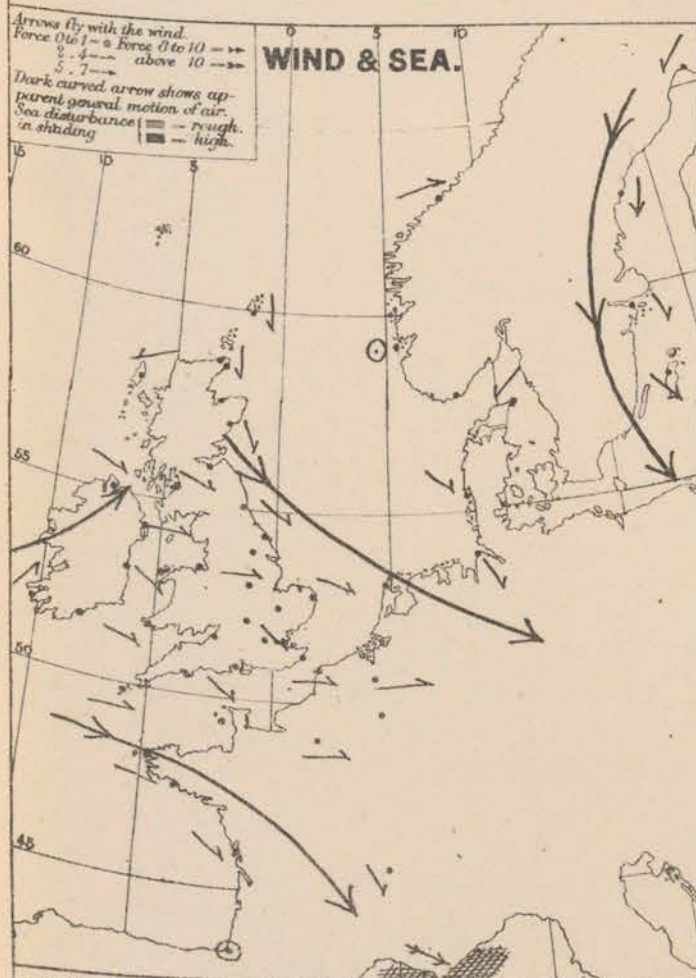
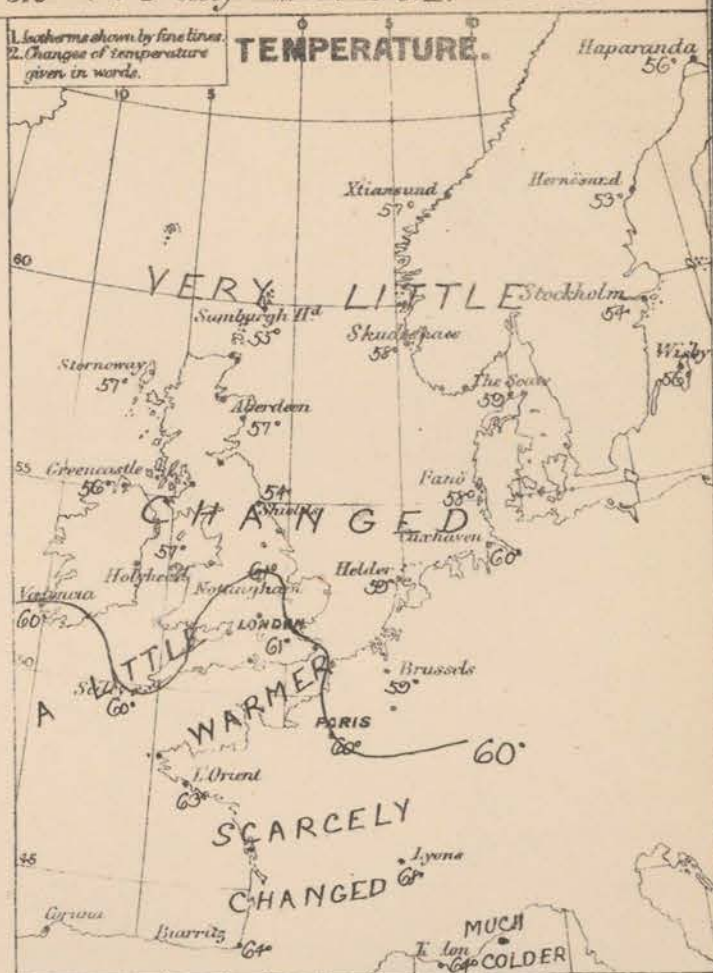
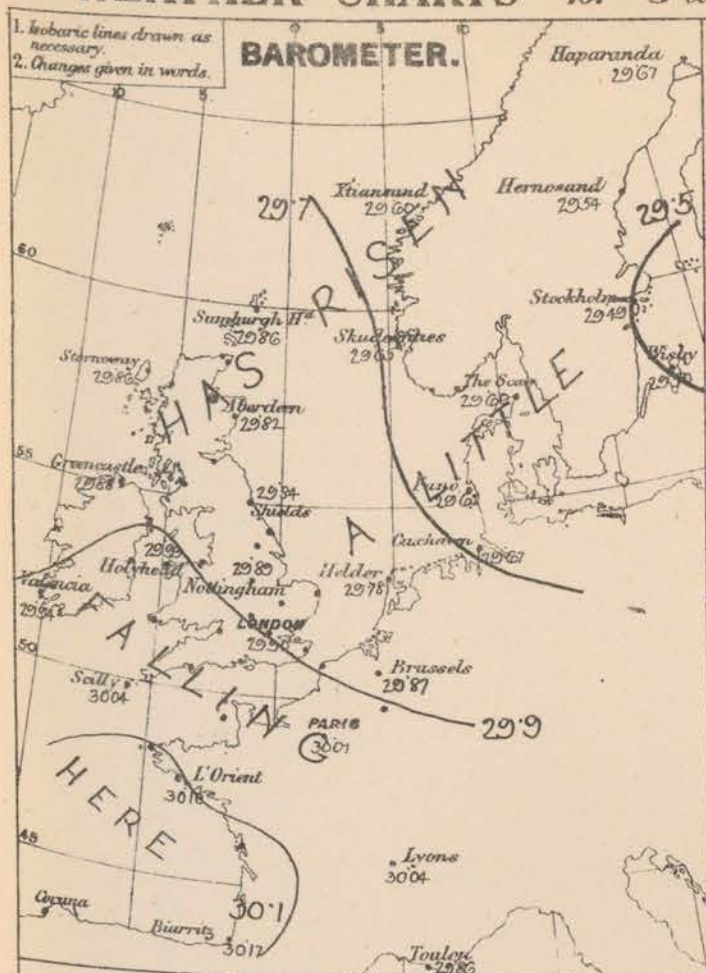
\* AN ASTERISK is inserted in all places for which information is not usually received.

† 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. in 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 12<sup>th</sup> JULY 1878*



**REMARKS.** Weather this morning is still fine but cloudy over nearly the whole of Western Europe. In the south of Ireland, however, the sky has become overcast and rain and mist are reported from Valentia and the west coast of France, with fog at the mouth of the Channel. Showers of rain fell in the north yesterday. Temperature shows no important change. The maximum readings for yesterday were considerably below 70° in all parts of the Kingdom. At Pembroke the highest point reached was 59°, at GreenCastle 60° and at Thurso 56°. Even at Rochfort the thermometer did not rise above 70°. Wind is light in almost all places. In direction it is chiefly NNW but has backed to SW in the south of Ireland during the night. Sea is moderate to smooth.

Barometrical Indications. In the course of the past 24 hours the barometer has risen a little over nearly the whole of our Islands, the North Sea, Norway and Denmark, the change being greatest (0.3 in.) at Lumburgh H. - In the course of the night, however, the mercury has fallen briskly at Valentia, and a depression seems to be approaching our north western coasts from the Atlantic.

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 JULY 13<sup>th</sup> 1878.

STATIONS.	† YESTERDAY EVENING.					8 A.M. TO DAY.										PAST 24 HOURS.		
	Barometer at 32° F. and Sea Level.	Temp. in shade.	WIND.		Weather.	BAROMETER.		SHADE TEMP.			WIND.		Weather.	Sea. (0 to 9.)	SHADE TEMP.			
			Dir.	Force. (0 to 12).		Reading at 32° F. and Sea Level.	Difference from 8 a.m. yesterday.	Dry.	Wet.	Difference from 8 a.m. yesterday.	Dir.	Force. (0 to 12).			Max.	Min.	Amount of Rainfall.	
Haparanda ...	29.73	57	E	2	bc	29.77	+ .10	63	61	+ 7	NE	2	bc	*	63	45	0.16	
Hernösand ...	29.58	55	NNE	4	c	29.62	+ .03	56	54	+ 3	NE	4	o	*	*	*	0.32	
Stockholm ...	29.56	55	Z	0	o	29.60	+ .11	60	59	+ 6	Z	0	o	*	*	*	-	
Wisby ...	29.58	57	N	4	c	29.60	+ .10	60	57	+ 4	SH	2	o	*	*	*	1.26	
Christiansund ...	29.65	61	NNH	1	o	29.67	+ .07	60	55	+ 3	NNE	2	bc	2	?	50	0.12	
Skudesnaes ...	29.66	61	NNH	4	o	29.64	- .01	57	54	- 1	NNH	6	o	3	59	55	-	
Oxö (Tjandsund) ...	29.58	60	NH	4	bc	29.57	- .02	59	56	- 1	N	2	c	2	63	55	0.04	
Skagen (The Seaw) ...	29.62	68	N	2	bc	29.54	- .06	58	56	- 1	SSH	3	o	2	72	52	-	
Fanö ...	29.73	57	N	5	c	29.70	+ .09	58	53	o	N	4	c	*	64	55	-	
Cuxhaven ...	29.50	62	NNH	3	c	29.50	+ .13	60	58	o	N	3	o	*	61	55	0.03	
Sumburgh Head ...	29.83	52	N	5	o	29.84	- .02	49	49	- 6	N	5	m	4	58	48	0.01	
Stornoway ...	29.94	56	N	4	bc	30.04	+ .18	54	53	- 3	NNH	4	o	4	59	51	-	
Thurso ...	29.92	55	NNH	3	o	29.97	+ .13	52	51	- 3	NNH	3	m	4	63	51	-	
Wick ...	29.89	55	NNE	4	o	29.96	+ .14	53	52	- 3	NNH	3	o	0	59	51	-	
Nairn ...	29.92	57	NNE	3	bc	30.01	+ .16	54	50	- 3	NNH	3	o	2	68	49	-	
Aberdeen ...	29.86	61	NNH	2	bc	29.94	+ .12	54	51	- 3	NNH	4	c	3	65	52	-	
Leith ...	29.83	66	E	1	bc	29.95	+ .13	54	50	?	NH	2	bc	*	70	49	-	
Shields ...	29.88	59	N	2	bc	29.97	+ .13	54	52	o	NNH	1	o	2	59	50	-	
Scarborough ...	29.88	57	NNE	1	bc	29.95	+ .11	57	53	o	NNH	1	o	2	59	51	-	
York ...	29.88	58	SSH	1	o	29.97	+ .12	57	53	- 1	NNH	2	c	*	66	47	0.08	
Nottingham ...	29.90	61	NNH	1	o	30.00	+ .11	61	58	o	N	1	bc	*	69	46	-	
Ardrossan ...	29.88	62	NNH	1	bc	29.98	+ .13	60	56	+ 3	NNH	3	bc	3	66	49	-	
Greencastle ...	29.92	59	NNE	2	bc	30.02	+ .15	56	54	o	N	2	c	*	62	50	0.01	
Donaghadee ...	29.91	58	N	3	bc	30.01	+ .12	61	57	+ 4	NNE	3	bc	2	63	51	-	
Kingstown ...	29.92	62	NNE	3	bc	30.04	+ .10	57	54	o	NNH	3	bc	2	62	55	-	
Holyhead ...	29.91	59	NNH	2	bc	30.01	+ .08	58	57	+ 1	NNH	2	bc	1	61	54	-	
Liverpool (Bidston) ...	29.90	58	NNH	1	c	29.99	+ .10	59	56	+ 3	NNH	1	bc	1	60	53	-	
Valencia ...	29.83	61	NH	2	o	30.06	+ .12	61	57	+ 1	NE	3	bc	3	63	57	0.18	
Roche's Point...	29.92	62	SH	2	f	30.01	+ .03	60	57	o	ENE	3	bc	3	68	56	0.20	
Pembroke ...	29.89	57	E	1	f	29.97	+ .01	59	55	+ 1	NE	2	bc	1	61	54	0.70	
Portishead ...	29.92	61	NH	2	r	29.96	+ .04	59	56	- 3	NNE	5	m	4	65	53	0.42	
Scilly ...	29.93	61	SH	3	f	29.90	- .14	60	60	o	NE	4	f	4	64	60	0.36	
Plymouth ...	29.92	62	NH	1	o	29.92	- .07	58	58	- 3	ENE	3	o	*	65	58	0.71	
Hurst Castle ...	29.96	65	N	4	o	29.93	- .01	58	57	- 4	ENE	3	o	3	67	59	0.46	
Dover ...	29.88	63	N	1	o	29.93	+ .03	62	57	- 1	NE	2	bc	1	66	57	0.08	
London ...	29.89	64	N	1	od	29.95	+ .05	61	56	o	NE	2	bc	*	67	54	-	
Oxford ...	*	*	*	*	*	29.95	+ .05	60	56	o	ENE	1	bc	*	64	51	-	
Cambridge ...	29.92	61	N	1	o	29.95	+ .08	59	56	+ 1	N	1	bc	*	64	48	-	
Yarmouth ...	29.89	58	Z	0	c	29.94	+ .08	58	54	- 1	NNH	2	bc	2	61	50	0.03	
The Helder ...	*	*	*	*	*	29.89	+ .09	59	54	o	N	1	c	*	*	*	-	
Cape Gris Nez ...	29.90	59	N	2	r	29.94	+ .02	59	59	o	N	1	m	0	63	57	0.08	
Jersey ...	30.01	61	N	2	o	29.93	- .11	61	61	o	Z	0	m	0	65	59	0.12	
Brest ...	30.08	66	N	2	m	?	?	61	61	+ 2	SE	2	m	2	66	57	0.16	
L'Orient ...	30.04	63	NNH	3	o	29.91	- .19	63	63	o	SE	1	m	1	72	59	0.04	
Rochefort ...	30.10	70	NNH	3	o	30.03	- .14	64	61	+ 2	SE	3	bc	3	73	55	-	
Biarritz ...	30.08	70	NNH	2	bc	29.87	- .20	64	57	o	ENE	1	bc	3	70	55	-	
Corunna ...	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	
Brussels ...	*	*	*	*	*	29.91	+ .04	60	57	+ 1	SH	1	c	*	68	57	-	
Charleville ...	*	*	*	*	*	29.88	1.00	59	*	+ 2	S	1	o	*	*	*	*	
Paris ...	29.97	66	NH	2	o	29.93	- .08	61	58	+ 1	NE	1	o	*	*	*	-	
Lyons ...	*	*	*	*	*	30.12	+ .08	66	*	- 2	N	6	o	*	*	*	*	
Toulon ...	29.86	68	NNH	8	bc	29.91	+ .05	70	64	+ 6	Z	0	m	3	70	64	-	

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

	Bar.	Dry.	Wet.	Wind.	Wes.	Sea.		Bar.	Dry.	Wet.	Wind.	Wes.	Sea.		
Skudesnaes ...	29.67	59	53	NNH	2	o	2	Valencia .....	29.86	62	61	S	3	o	4
Thurso .....	29.90	60	55	NNH	2	bc	4	Scilly .....	29.99	64	63	NH	3	f	4
Scarborough ...	29.87	58	54	NNE	1	o	1	London .....	29.90	67	60	N	2	o	*
Greencastle ...	29.90	60	55	NNE	1	o	*	Rochefort ...	30.16	68	63	NNH	4	bc	3
Holyhead .....	29.93	59	56	NNH	1	o	o								

The barometer continues to fall at Valencia, where the wind has backed to south, but the rain has ceased. The wind is extremely light and variable over the United Kingdom.

## 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.

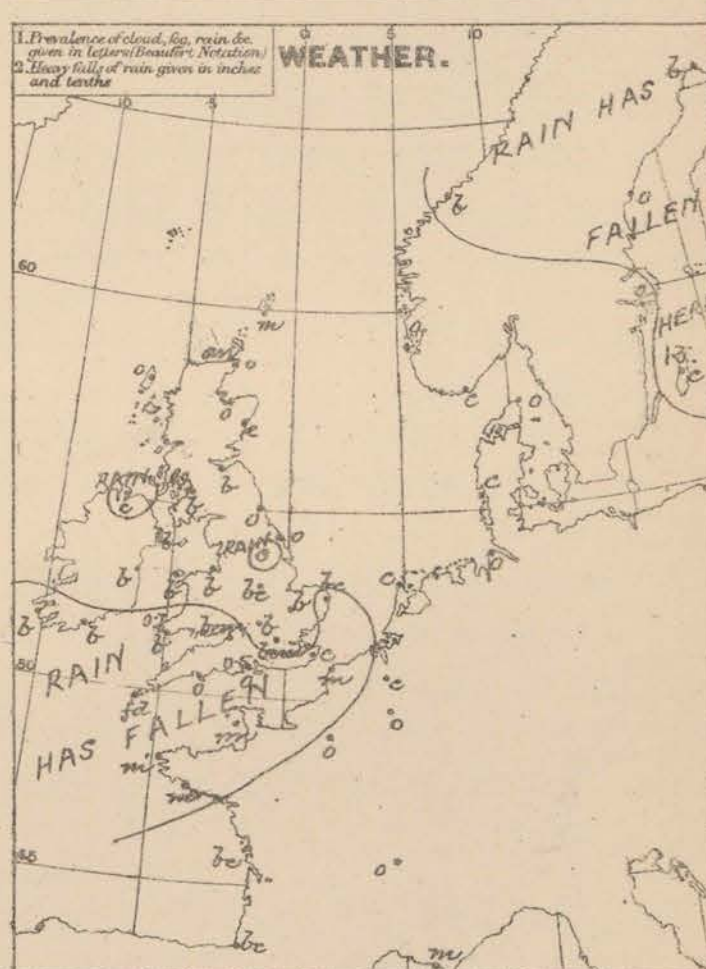
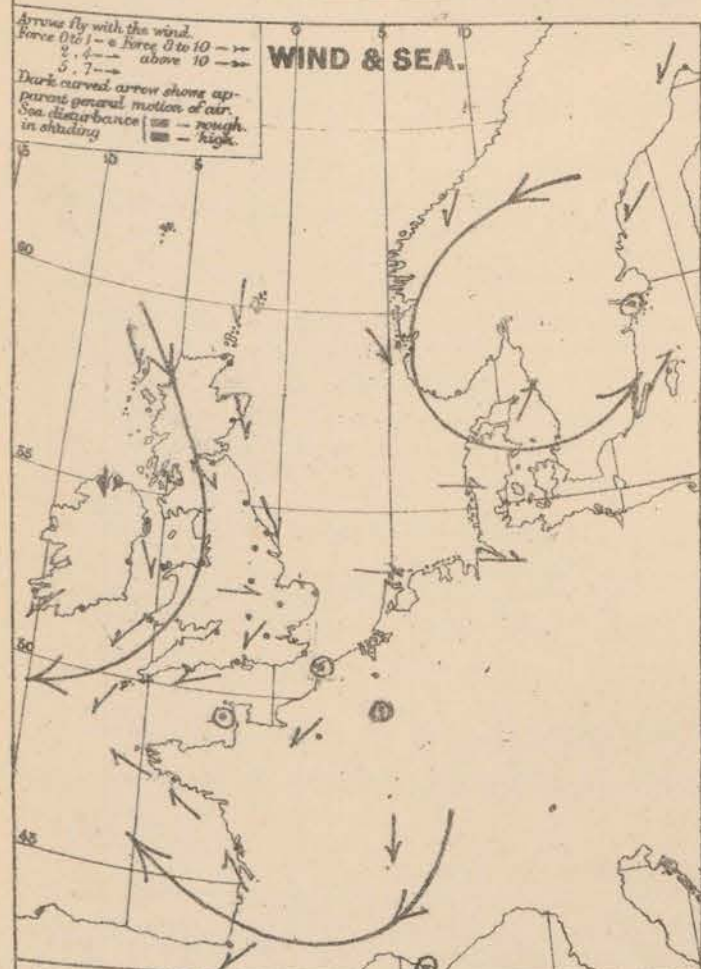
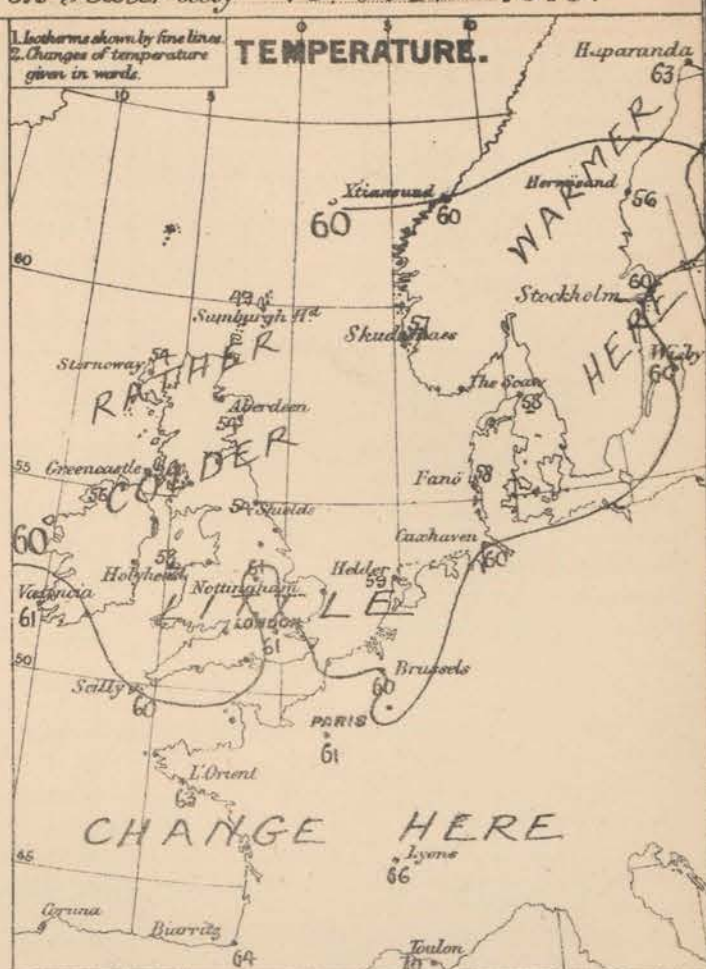
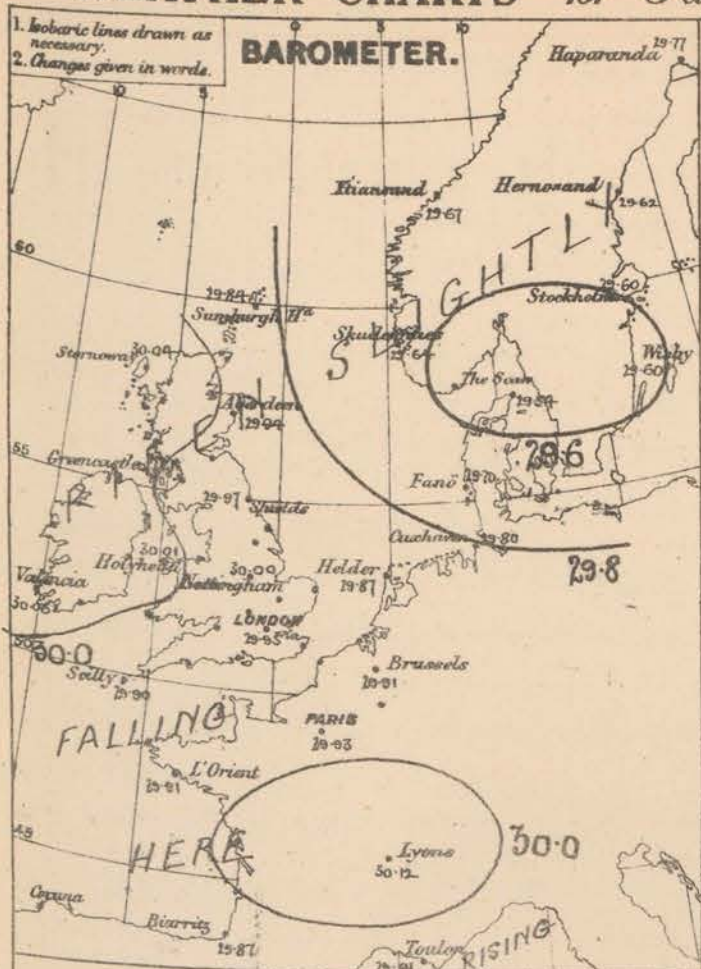
\* AN ASTERISK is inserted in all places for which information is not usually received.

† 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 Saturday 13. JULY 1878*



**REMARKS** Weather this morning is fine and dry over the greater part of our Islands, but especially at the W. and central stations. At the mouth of the Channel, however, it is dull, misty and wet, and over France it is overcast. Heavy rain fell over the N. of our Islands during the night, the amounts measured at Plymouth and Pembroke, being 0.7 in. while Pictouhead, Scilly, and Saint Peter had about 44 tenths. At Witley (Dartie) 1.3 in. fell. Temperatures is still low generally, the readings this morning ranging from 49° at Edinburgh Heads to 61° at Valencia, London and Paris, and to 70° in the S. of France. The maximum readings over our Islands yesterday were considerably below 70° except at Perth, where 70° was just reached, while at Shields and Scarborough it was only 59°. Wind is moderate from the N. at our N. and W. stations, light from NNW at our E. coasts, and from W. in Holland. In the Channel, and S. of our Islands, however, it is NE. while it is SE. in the W. of France. Sea is moderate to smooth.

Barometrical indications. Two areas of high pressure are reported, the one over our W. and NW coasts and the other (a small one) over the S. of France. Two depressions also are reported, the larger one over the S. of Norway and the smaller near the mouth of the Channel. Both are nearly stationary.

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

Dangerfield Luk 22 Bedford St. Emma G. - 1.



# SUMMARY OF WEATHER IN WESTERN EUROPE

from 7<sup>th</sup> JULY to 13<sup>th</sup> JULY 1878.

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

The weather during this period has been quiet, cool and cloudy. Showers of rain fell in several places on the 7<sup>th</sup>, 9<sup>th</sup> and 10<sup>th</sup>, and a good deal of rain over our SW<sup>y</sup> countries, on the night of the 12<sup>th</sup>, but otherwise the weather has been dry generally. The winds have been chiefly W<sup>ly</sup> to NW<sup>ly</sup> in the United Kingdom, and N<sup>ly</sup> to NE<sup>ly</sup> in the S. of France. A strong W<sup>ly</sup> breeze was felt in the W. of Scotland on the evening of the 9<sup>th</sup> and in other parts of the country the breeze was gusty. At the close of the week the wind was over N<sup>ly</sup> over these islands, and NE<sup>ly</sup> in the Channel, while it was SE<sup>ly</sup> in the Bay of Biscay. The barometer has been generally highest to the SW<sup>y</sup> of our islands, lowest in the N. Various shallow depressions have passed over our extreme N<sup>y</sup> stations, especially on the 7<sup>th</sup> and 10<sup>th</sup>, and very small ones passed in a SE<sup>ly</sup> direction near the SW. of Ireland on the 12<sup>th</sup>, and at Paris on the 13<sup>th</sup>, it was off the mouth of the Channel.

## Sunday. JULY 7<sup>th</sup>

Weather fine in a few localities, but on the whole cloudy and dull, with showers on our W<sup>y</sup> coasts, and in the N. of France. Thunder in the NE. of Ireland.

Temperature mostly in Scotland, but very little change in England, the maximum values varying from 72° to 77° and the night remaining warm.

Wind blowing to NW. very generally, and continuing light to moderate except on the E<sup>y</sup> shores of the North Sea.

Sea, very little disturbed except in the Dogger Bank.

Barometer rising briskly on our N<sup>y</sup> and NW<sup>y</sup> coasts, falling slightly in France. Two distinct, but shallow depressions over Sweden, both travelling slowly to the E<sup>y</sup>.

## Monday JULY 8<sup>th</sup>

Weather fine generally, but cloudy during the day. Slight showers of rain fell on our NW<sup>y</sup> coasts, and in the N. of France, and some rain at Stockholm.

Temperature showing little change in the morning, but the maximum readings rather lower than on the 7<sup>th</sup>, though still above 70° over England; the succeeding night cool.

Wind generally N<sup>ly</sup>, and light to moderate in force, but drawing rather more towards NW. on the E<sup>y</sup> shores of the North Sea, and W. over Germany. Later in the day wind backed towards W. and SW. in the NW, while SE<sup>ly</sup> winds shrouded themselves on our NE. coasts.

Sea moderate to smooth.

Barometer rising generally in our islands, falling slightly in France; highest to the W<sup>y</sup> of Ireland, lowest over Russia and the Gulf of Bothnia, the gradients over W<sup>y</sup> Europe being slight. During the day the mercury began to fall briskly on our extreme NW. coasts.

## Tuesday JULY 9<sup>th</sup>

Weather still fine in France and at many of our stations, but very dull elsewhere, with rain at Anderson, which subsequently extended to several places in the N., and also to our S<sup>y</sup> countries; but not in any great amount.

Temperature lower than on the 8<sup>th</sup>, although the highest day readings varied from 70° to 75° over England, giving a large range for the 24 hours.

Wind rather fresh from SE. in the Shetlands and Hebrides, but chiefly moderate from W. to NW. in other parts of our islands, and NW. in the S. of Ireland, and N<sup>ly</sup> to NE<sup>ly</sup> in France. Later in the day the W. wind blew strongly in the W. of Scotland.

Sea moderate to smooth.

Barometer highest (30.3 ins. and upwards) over the Bay of Biscay, lowest in the N. A depression travelling from W. to E. over the N. of Scotland during the day.



Wednesday. JULY 10<sup>TH</sup>

Weather dull and cloudy generally, with rain in the N. and showers at a few stations in other districts.

Temperatures decreasing slowly, the 8 a.m. readings being below 60° at all but the S. and SE stations, and the maxima below 70° at all but Hurst Castle. In the W. of France the maxima 72°.

Winds W at our N and NE stations, and NW in the S, but SW to SE on the E shores of the North Sea, and NE to NW in Sweden. The W winds were moderate to fresh in force, and gusty at times, but the S winds were light.

Sea but little disturbed.

Barometer very unsettled in the N. and falling generally elsewhere. A new depression found near the Shetlands, a secondary disturbance off the SW of Norway, and a larger depression over the Gulf of Bothnia.

Thursday. JULY 11<sup>TH</sup>

Weather very cloudy all over W. Europe, with slight rain in the N. and showers in some few other localities.

Temperatures rather lower than on the 10<sup>th</sup>; the 8 a.m. readings were below 60° all over the Kingdom, and as low as 53° in the N. of Scotland. Highest readings recorded over the British Isles during the day 68° to 69°; at Pembroke the maximum was 59°, and at Thurso 56°.

Winds W to NW, and moderate in force, but blowing rather strongly from WNW at Kingstown in the afternoon.

Sea moderate to smooth.

Barometer still highest to the SW of our Islands, lowest over N. Europe. New depressions over Scandinavia, and the Gulf of Bothnia, and though gradients (for NW winds) are moderate over our Islands, local irregularities are noticed in several places.

Friday. JULY 12<sup>TH</sup>

Weather fine but cloudy over the whole of W. Europe during the earlier part of the day. Sky clearing remarkably in the N. later on, but becoming unsettled in the SW, with a considerable fall of rain over the S. parts of Ireland and England and the N. of France. Rainfall 0.7 in at Plymouth and Pembroke, half an inch at Hurst Castle and 0.4 in at Seilly and Falmouth. In London only a few spots fell. Heavy rain at some of the Scandinavian stations also.

Temperatures scarcely changed beyond a slight rise in the S. Readings at 8 a.m. above 60° at the S. stations only. Maxima considerably below 70° in most places.

Winds generally moderate, from N. in the extreme N. of Scotland, from WNW in the other parts of our Islands and from the N. in Denmark. A SW breeze fell in the S. of Ireland, but not on our other coasts.

Sea moderate in the SW, smooth elsewhere.

Barometer highest (30.1 in.) over the Bay of Biscay, lowest (29.5 in.) over the Baltic, with secondary disturbances over the Sound, and to the NW of Norway. Another small disturbance passing from NW to SE near Valencia during the day.

Saturday JULY 13<sup>TH</sup>

Weather fine and dry over nearly the whole of the United Kingdom, but misty in the N. and W. of France, foggy and wet at Seilly.

Temperatures fell somewhat in the N. and changed little elsewhere. Very cold for the time of year, but rising above 70° in a few localities during the day. Maxima 71° at Cambridge, 72° at Exeter and Exeter, 73° in London and at Rocher Point, and 74° at Nottingham, but only 57° at Wick, 60° at Shields, and 64° at Dover.

Winds variable, N at all our N and E stations, NE to E in the S, and SE in the W. of France. On the E shores of the North Sea wind N to W, but SW at the Scaev, and at Wisby.

Sea very little disturbed.

Barometer high (30.1 in.) in the S. of France, and also over Ireland and the W. of Scotland. A depression over the S. of Norway, and another (small one) near Seilly and moving SE.

Meteorological Office,

116 Victoria Street, Westminster, S.W.

ROBERT H. SCOTT, Secretary.



# DAILY WEATHER REPORT

JULY 14<sup>th</sup>

1878

STATIONS.	† YESTERDAY EVENING.						9 A.M. TO DAY										PART OF NIGHT.		
	Barometer at 32° F. sea level.	Temp. in shade.	WIND.		Weather.	Barometer Reading at 32° F. and Sea Level.	SHADE TEMP.			WIND.		Weather.	Sea. (0 to 9).	SHADE TEMP.		Amount of Rainfall.			
			Dir.	Force (0 to 12).			Dry.	Wet.	Difference from 8 a.m. yesterday.	Dir.	Force (0 to 12).			Max.	Min.				
Haparanda	29.73	60	Z	0	c	29.73	-0.4	69	67	+6	Z	0	b	*	73	54	-		
Hernösand	29.71	57	Z	0	c	29.70	+0.8	61	58	+5	ZNE	2	c	*	*	*	0.04		
Stockholm	29.67	54	E	2	bc	29.71	+1.1	59	55	-1	Z	2	b	*	*	*	0.47		
Wisby	29.66	59	NE	4	a	29.67	+0.07	60	56	0	Z	0	b	*	*	*	-		
Christiansund	29.71	62	Z	4	b	29.75	+0.8	62	58	+2	WGW	1	b	1	63	48	-		
Skudesnae	29.68	55	NW	7	o	29.78	+1.4	55	54	-2	ZNW	2	N	2	?	55	-		
Oxö (Ålmasand)	29.64	61	NNW	4	c	29.73	+1.6	60	55	+1	ZNE	4	b	2	64	55	-		
Skagen (The Sea)	29.61	60	N	3	b	29.63	+0.09	60	57	+2	ZNE	4	c	4	72	52	0.12		
Fanö	29.71	57	NW	4	o	29.73	+0.03	59	55	+1	NW	4	o	*	61	55	0.04		
Cuxhaven	29.80	60	N	4	c	29.79	-0.01	60	59	0	WGW	4	c	*	64	55	0.01		
Sumburgh Head	29.90	50	Z	5	c	29.94	+1.0	51	51	+2	Z	2	o	2	54	46	-		
Stornoway	30.06	55	NNW	4	o	30.06	+0.02	56	55	+2	NNW	5	od	5	58	50	-		
Thurso	30.02	54	NW	3	o	30.02	+0.05	55	54	+2	WGW	2	om	4	56	51	0.02		
Wick	29.99	54	NNE	4	o	30.00	+0.04	55	54	+2	?	?	o	2	57	50	0.02		
Nairn	30.05	54	NW	2	o	30.07	+0.06	58	54	+4	WGW	2	o	2	61	51	-		
Aberdeen	29.98	57	NNW	2	o	30.01	+0.07	61	56	+7	NW	2	o	2	61	53	-		
Leith	29.98	62	E	3	b	30.04	+0.09	63	56	?	NW	1	bc	*	72	53	-		
Shields	30.00	57	NE	1	bc	30.07	+1.0	57	54	+3	NNE	2	bc	2	60	53	-		
Scarborough	30.00	57	N	3	bc	30.07	+1.2	57	53	0	NNW	2	o	3	61	55	-		
York	30.00	63	NE	3	b	30.09	+1.2	59	54	+2	N	1	o	*	68	53	-		
Nottingham	30.01	68	Z	0	o	30.10	+1.0	63	58	+2	SW	2	o	*	74	54	-		
Ardrossan	30.00	62	WGW	4	b	30.10	+1.2	58	55	-2	N	3	bc	3	67	52	-		
Greencastle	30.13	57	N	2	o	30.17	+1.4	55	54	-1	N	1	o	*	62	52	0.01		
Donaghadee	30.09	57	NNW	6	c	30.16	+1.5	60	56	-1	NNW	6	bc	5	65	53	-		
Kingstown	30.10	64	NE	4	bc	30.19	+1.5	58	54	+1	NW	5	c	4	65	56	-		
Holyhead	30.08	60	Z	3	b	30.14	+1.3	56	53	-2	NNW	5	bc	4	64	55	-		
Liverpool (Biston)	30.03	64	WGW	1	b	30.10	+1.1	57	55	-2	WGW	3	o	3	66	55	-		
Valencia	30.04	65	NNW	3	b	30.26	+2.0	59	54	-2	Z	3	bc	3	68	54	-		
Roche's Point	30.14	63	SE	2	b	30.22	+2.1	58	54	-2	NNE	4	bc	3	73	54	-		
Penbroke	30.05	64	N	4	b	30.18	+2.1	57	53	-2	N	2	o	1	68	53	-		
Portishead	30.00	67	Z	3	b	30.12	+1.6	59	56	0	NNW	4	bc	4	74	50	-		
Scilly	30.05	62	NE	2	c	30.17	+2.7	63	60	+3	NE	4	b	2	64	59	-		
Plymouth	30.01	65	E	2	bc	30.12	+2.0	63	59	+4	Z	5	b	*	69	55	-		
Hurst Castle	29.98	67	N	3	b	30.09	+1.6	63	59	+5	NNE	3	bm	2	69	53	-		
Dover	29.98	60	E	3	b	30.08	+1.5	60	56	0	ENE	3	bc	1	64	56	-		
London	29.99	68	Z	2	c	30.08	+1.3	61	55	0	ENE	2	b	*	73	50	-		
Oxford	*	*	*	*	*	30.10	+1.5	58	54	-2	Z	2	b	*	72	50	-		
Cambridge	30.01	63	N	1	c	30.08	+1.3	58	55	-1	Z	1	o	*	71	49	-		
Yarmouth	29.99	60	NNW	3	b	30.06	+1.2	58	53	0	NW	4	o	3	62	51	-		
The Helder	*	*	*	*	*	29.94	+0.07	57	54	-2	NW	3	c	*	*	*	-		
Cape Gris Nez	30.00	61	NE	2	b	30.09	+1.5	59	57	0	NE	2	o	1	66	54	-		
Jersey	30.00	63	NE	2	c	30.13	+2.0	66	60	+5	Z	0	bm	0	66	56	0.10		
Brest	30.02	70	ENE	3	o	30.17	?	59	57	-2	NE	3	b	2	70	54	-		
L'Orient	29.94	64	WGW	2	bc	30.09	+1.8	63	59	0	NE	4	b	2	73	55	-		
Rochefort	29.97	73	NNW	3	bc	29.99	-0.04	63	61	-1	ENE	5	b	3	77	57	-		
Biarritz	29.81	73	NNE	3	o	29.84	-0.03	72	66	+8	SSW	1	c	3	82	63	-		
Corunna	*	*	*	*	*	30.04	*	63	*	*	NE	3	o	2	*	*	-		
Brussels	*	*	*	*	*	30.02	+1.1	58	53	-2	N	4	o	*	68	54	-		
Charleville	*	*	*	*	*	30.00	+1.2	55	*	-4	Z	0	o	*	*	*	-		
Paris	29.95	62	NE	3	o	30.08	+1.5	58	52	-3	NE	4	b	*	*	*	0.25		
Lyons	*	*	*	*	*	29.93	+1.4	68	*	+2	N	6	o	*	*	*	-		
Toulon	29.90	72	N	3	b	29.91	-0.00	72	68	+2	SW	1	b	2	77	61	-		

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

	Bar.	Dry.	Wet.	Wind.	Wen.	Sea.		Bar.	Dry.	Wet.	Wind.	Wen.	Sea.		
Skudesnaes ...	29.64	58	54	NW	8	bc	4	Valencia .....	30.12	67	60	N	4	6	4
Thurso .....	30.01	54	52	NW	2	o	4	Scilly .....	30.00	63	60	?	4	0	3
Scarborough ...	29.99	60	55	N	4	c	4	London .....	29.99	68	59	NNW	2	c	*
Greencastle ...	30.11	59	55	N	2	o	*	Rochefort ...	29.96	72	64	NW	3	6	3
Holyhead .....	30.06	62	58	NNW	2	b	1								

The barometer is rising generally but the winds and weather remain unchanged.

## 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.







# DAILY WEATHER REPORT JULY 15<sup>TH</sup> 1878.

STATIONS.	† YESTERDAY EVENING.						8 A.M. TO DAY.										PART 24 HOURS.		
	Barometer at 32° F. and Sea Level.	Temp. in shade.	WIND.		Weather.	BAROMETER.		SHADE TEMP.			WIND.		Weather.	Sea. (0 to 9).	SHADE TEMP.		Amount of Rainfall.		
			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 ...	29.69	66	Z	0	b	29.74	+0.1	64	59	-5	Z	0	b	*	77	55	-		
Hernösand ...	29.65	63	Z	0	c	29.63	-0.7	68	60	+8	N	2	b	*	*	*	-		
Stockholm ...	29.64	62	Z	0	b	29.60	-1.1	63	60	+4	NW	4	a	*	*	*	-		
Wisby ...	29.63	59	WNW	2	b	29.62	-0.5	60	57	0	WNW	4	b	*	*	*	1.30		
Christiansund ...	29.76	57	SW	3	f	29.86	+1.1	54	52	-2	N	3	b	2	63	50	-		
Skudesnaes ...	29.84	54	NW	6	h	29.89	+1.1	57	53	+2	NW	6	c	3	?	54	-		
Oxö (Xtiansand)	29.73	65	SW	4	b	29.73	0.0	64	58	+4	NNW	2	b	2	66	57	-		
Skagen (The Scaw)	29.75	59	WNW	2	b	29.73	+1.0	62	59	+2	WSW	2	b	1	73	50	-		
Fanö ...	29.85	57	NW	5	c	29.86	+1.3	53	55	-1	NW	6	a	*	66	54	-		
Cuxhaven ...	29.86	61	NNW	4	c	29.93	+1.4	60	56	0	WNW	4	c	*	61	54	0.01		
Sumburgh Head	29.95	52	NW	4	c	30.02	+0.8	53	51	+2	NNW	4	c	2	56	50	0.01		
Stornoway	30.11	57	NNW	4	c	30.14	+0.8	57	54	+1	NNW	2	c	2	61	51	-		
Thurso ...	30.07	55	WNW	3	o	30.12	+1.0	54	53	-1	WNW	2	o	4	60	51	0.01		
Wick ...	30.06	54	NW	5	o	30.12	+1.2	54	53	-1	WNW	3	o	0	62	50	-		
Nairn ...	30.10	64	WNW	2	b	30.16	+0.9	56	52	-2	WNW	1	c	1	68	49	-		
Aberdeen ...	30.08	65	NW	1	c	30.14	+1.3	57	53	-4	NNW	1	c	1	67	49	-		
Leith ...	30.05	68	NW	3	b	30.13	+0.9	57	54	-6	N	1	c	*	76	52	-		
Shields ...	30.07	60	Z	0	o	30.17	+1.0	58	57	+1	Z	0	o	1	62	55	-		
Scarborough	30.09	61	N	1	o	30.17	+1.0	59	56	+2	N	2	c	2	61	57	0.01		
York ...	30.09	66	SSW	1	o	30.18	+0.9	61	57	+2	N	1	o	*	71	52	-		
Nottingham ...	30.11	67	WNW	3	c	30.20	+1.0	65	61	+2	SW	2	o	*	76	52	-		
Ardrossan ...	30.14	60	WNW	3	a	30.18	+0.8	58	54	0	N	3	c	2	62	56	-		
Greencastle ...	30.21	59	NW	2	o	30.21	+0.4	59	57	+4	N	1	o	*	62	54	0.03		
Donaghadee ...	30.21	59	NW	2	o	30.23	+0.7	58	56	-2	NE	2	o	1	64	56	0.02		
Kingstown ...	30.23	61	NW	4	o	30.28	+0.9	59	57	+1	WNW	4	b	3	61	57	-		
Holyhead ...	30.20	58	NNW	2	o	30.26	+1.2	58	57	+2	NW	3	o	2	61	56	-		
Liverpool (Bidston)	30.17	59	WNW	2	c	30.22	+1.2	61	58	+4	WNW	2	c	1	62	56	-		
Valencia ...	30.32	59	N	3	o	30.36	+1.0	60	58	+1	NNW	1	o	2	63	56	-		
Roche's Point...	30.29	61	N	3	a	30.32	+1.0	60	57	+2	N	2	c	2	65	57	-		
Pembroke ...	30.23	59	N	2	c	30.28	+1.0	58	54	+1	NNW	2	o	1	60	55	-		
Portishead ...	30.22	66	NNW	3	b	30.24	+1.2	61	58	+2	NW	2	o	2	71	52	-		
Scilly ...	30.21	60	N	5	o	30.28	+1.1	61	58	-2	NNW	5	c	3	64	58	-		
Plymouth ...	30.17	63	N	5	b	30.25	+1.3	63	59	0	N	5	b	*	69	55	-		
Hurst Castle ...	30.11	71	N	3	b	30.22	+1.3	65	61	+2	N	3	b	2	73	53	-		
Dover ...	30.12	61	E	2	b	30.16	+0.8	61	58	+1	NW	2	b	1	65	57	-		
London ...	30.12	66	NNW	1	b	30.19	+1.1	61	57	0	WNW	2	o	g	70	53	-		
Oxford ...	*	*	*	*	*	30.21	+1.1	58	56	0	NW	1	o	*	73	51	-		
Cambridge ...	30.10	68	N	1	c	30.20	+1.2	61	59	+3	N	1	o	*	70	54	-		
Yarmouth ...	30.11	62	NNW	3	b	30.16	+1.0	64	59	+8	WNW	2	b	1	64	55	-		
The Helder ...	*	*	*	*	*	30.08	+1.4	59	57	+2	NW	3	c	*	*	*	-		
Cape Gris Nez	30.11	61	ENE	2	c	30.20	+1.1	61	59	+2	Z	0	m	0	66	54	-		
Jersey ...	30.15	63	N	2	b	30.25	+1.2	65	60	-1	NE	1	b	1	68	55	-		
Brest ...	30.25	72	NNE	4	b	30.29	+1.2	59	57	0	NE	2	b	2	73	50	-		
L'Orient ...	30.03	68	NE	2	b	30.19	+1.0	61	59	-2	NE	3	b	2	78	52	-		
Rochefort ...	30.06	75	ENE	4	b	30.16	+1.7	66	59	+8	NE	4	b	3	82	57	-		
Biarritz ...	29.89	73	N	3	b	30.09	+1.6	70	68	-2	SW	4	b	3	75	66	-		
Corunna ...	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*		
Brussels ...	*	*	*	*	*	30.16	+1.4	60	56	+2	WNW	4	b	*	63	53	-		
Charleville ...	*	*	*	*	*	30.08	+0.8	55	*	0	SW	1	o	*	*	*	-		
Paris ...	30.08	68	ENE	2	b	30.22	+1.4	58	54	0	NE	3	o	*	*	*	-		
Lyons ...	*	*	*	*	*	28.16	+1.8	66	*	-2	N	4	b	*	*	*	-		
Toulon ...	29.90	72	N	4	m	29.94	+0.3	66	66	-6	E	3	m	3	79	?	-		

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

Bar.	Dry.	Wet.	Wind.	Woe.	Sea.	Bar.	Dry.	Wet.	Wind.	Woe.	Sea.
Skudesnaes	29.82	58	SW	6	o	Valencia					
Thurso						Scilly					
Scarborough						London					
Greencastle						Rochefort	30.03	82	70	ENE	6
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.

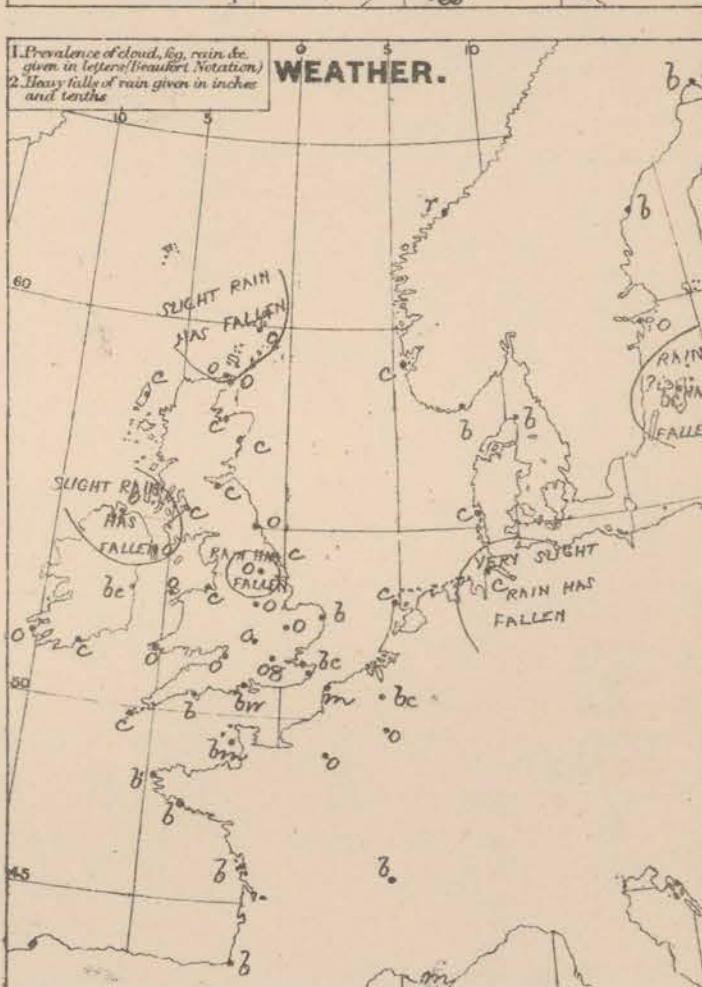
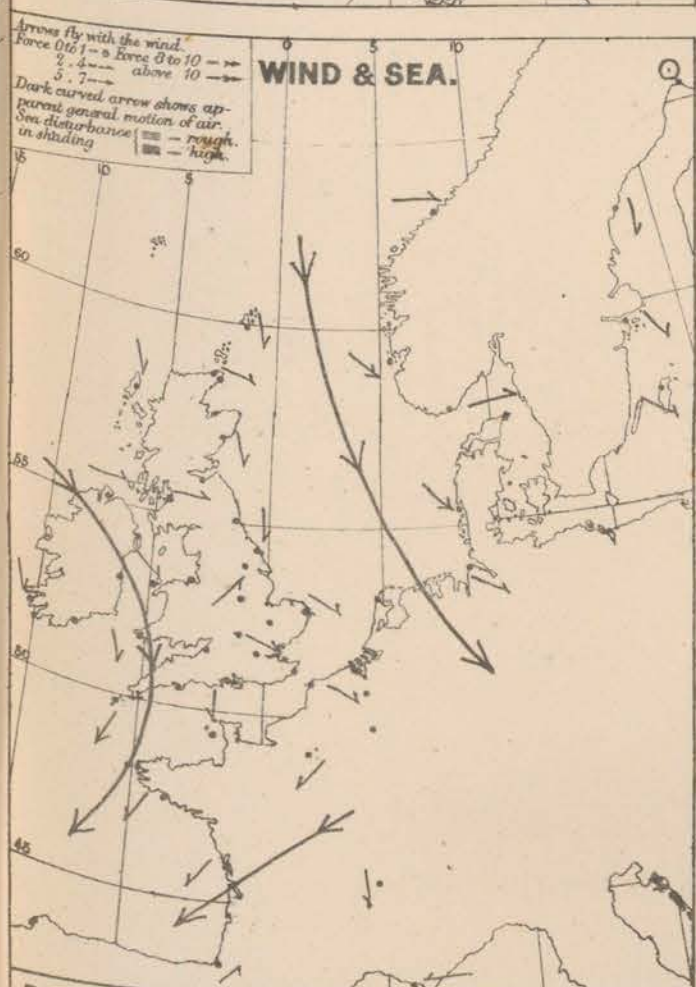
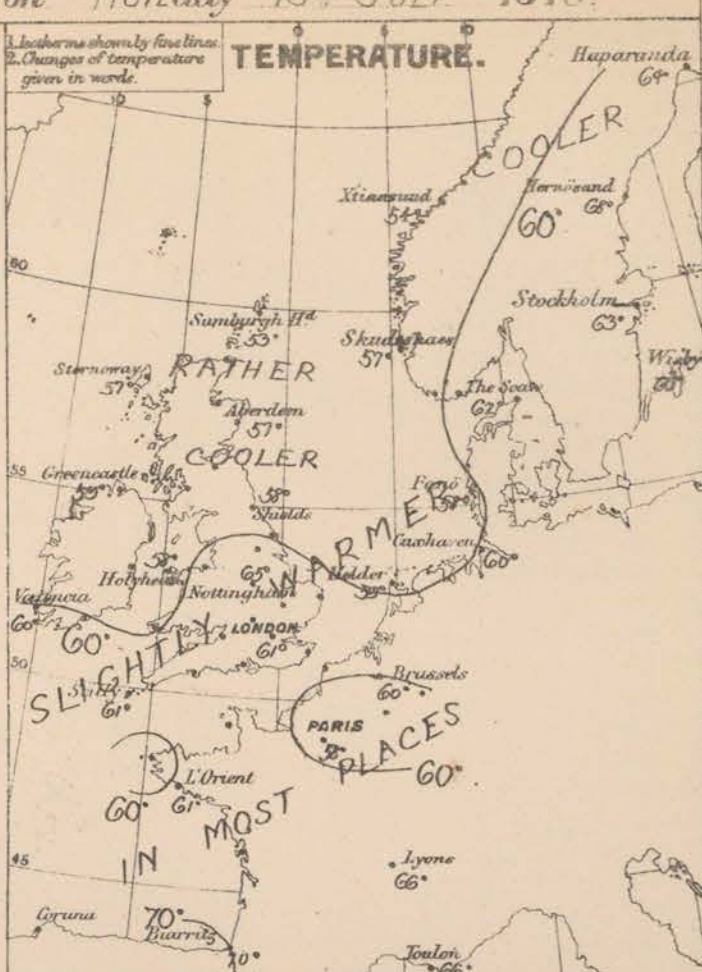
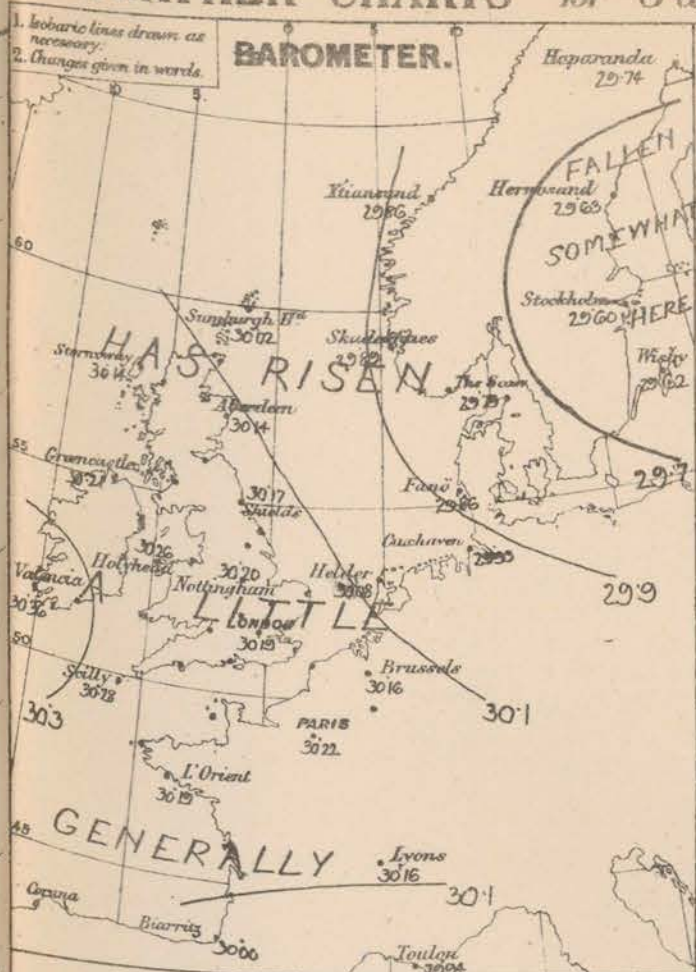
\* AN ASTERISK is inserted in all places for which information is not usually received.

† 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.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 15<sup>TH</sup> JULY 1878.



**REMARKS.** Weather remains cloudy and dull over nearly the whole of the United Kingdom, but along our south coast, in the Bay of Biscay and in the south of France it is clear and bright. Night shows of rain fell at some of our north western stations yesterday. Temperature has undergone very little change on the whole and consequently remains low for the time of year. The maximum value recorded yesterday varied greatly in different parts of this and the neighbouring countries. Thus 77° was recorded as far north as Haparanda, 76° at Leth, 75° at Hurst Castle and 70° to 72° at several of our other stations. At the same time the maximum at Barbours was only 61°, at Pembroke 60°, and even at Talents only 63°. At Rochfort, however, 82° was recorded. Wind is light on our eastern coasts, moderate generally elsewhere. It is NW<sup>ly</sup> over the northern and eastern parts of the Kingdom and over the North Sea, N<sup>ly</sup> at our south western and southern stations and NE<sup>ly</sup> in the Bay of Biscay. Sea is smooth in almost all places. Barometrical Indications. High pressure is still reported from our most southern coasts, and relatively low readings from the Baltic and south of France, the gradients (for NW<sup>ly</sup> to NE<sup>ly</sup> winds) being slight. The barometer is rising generally, and no important change is probable.

Subscriptions 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.

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

R. H. SCOTT.  
Secretary.



# DAILY WEATHER REPORT

JULY 16<sup>TH</sup>

1878.

STATIONS.	† YESTERDAY EVENING.					8 A.M. TO DAY.										PAST 24 HOURS.		
	Barometer at 320 F. and Sea Level.	Temp. in shade.	WIND.		Weather.	BAROMETER.		SHADE TEMP.			WIND.		Weather.	Sea. (0 to 9.)	SHADE TEMP.		Amount.	
			Dirce.	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.	Dirce.	Force. (0 to 12).			Max.	Min.		
Haparanda ...	29.68	65	SE	2	c	29.74	-0.06	63	65	+4	2	0	b	*	73	55		
Hernösand ...	29.71	55	2	0	f	29.80	+0.09	64	58	-4	2 NW	6	b	*	*	*		
Stockholm ...	29.65	63	NNW	2	b	29.75	+0.10	63	57	0	N	4	b	*	*	*		
Wisby ...	29.65	60	NNW	6	c	29.70	+0.05	59	55	-1	NNE	6	b	*	*	*		
Christiansund ...	29.95	55	NNW	2	0	29.97	+0.02	56	53	+2	S	1	c	2	59	48		
Skudesnaes ...	29.97	54	NW	6	b	30.06	+0.09	55	51	-2	NW	6	0	2	57	54		
Oxö (Xtiansand) ...	29.77	69	WSW	2	b	29.93	+0.16	67	59	+3	E	2	b	2	72	61		
Skagerr (The Scaw) ...	29.79	62	2	0	b	29.90	+0.11	63	58	+1	NE	4	b	4	77	55		
Fanö ...	29.99	57	NW	6	0	29.98	+0.01	58	55	0	NW	6	c	*	61	54		
Cuxhaven ...	30.03	59	NNW	6	0	30.06	+0.03	59	55	-1	NN	5	0	*	61	54	0.	
Sumburgh Head ...	30.11	54	NNW	2	c	30.01	-0.01	52	52	-1	SW	5	N	5	57	45	0.	
Stornoway ...	30.12	62	SSW	3	b	30.07	-0.05	59	53	+2	N	5	N	4	64	52	0.	
Thurso ...	30.15	58	2	0	c	30.07	-0.08	61	59	+2	WSW	1	0	3	62	51		
Wick ...	30.15	58	NW	1	b	30.07	-0.08	63	61	+2	SW	1	c	0	64	51		
Nairn ...	30.15	64	2	0	b	30.11	-0.04	62	59	+3	N	2	0	1	69	55		
Aberdeen ...	30.16	62	3	2	b	30.11	-0.05	65	60	+5	WSW	1	b	1	66	60		
Leith ...	30.13	64	E	1	c	30.16	+0.03	63	59	+4	N	3	b	*	72	56		
Shields ...	30.13	58	SE	2	c	30.21	+0.08	63	60	+3	NNW	2	b	2	63	52		
Scarborough ...	30.21	57	ESE	1	c	30.24	+0.03	64	60	+4	SW	1	b	1	64	53		
York ...	30.19	67	E	1	c	30.25	+0.06	64	60	+4	NNW	1	0	*	72	51		
Nottingham ...	30.20	65	N	1	b	30.23	+0.03	64	62	-2	N	1	0	*	76	50		
Ardrossan ...	30.19	62	NNW	2	c	30.23	+0.04	60	58	+2	N	2	N	2	63	57		
Greencastle ...	30.23	60	N	2	0	30.26	+0.03	60	59	+1	WSW	2	0	*	61	57	0.	
Donaghadee ...	30.25	57	NNE	1	0	30.27	+0.02	65	62	+3	NW	2	b	0	65	57		
Kingstown ...	30.29	65	NNW	4	c	30.34	+0.05	63	58	+4	NNW	4	0	3	66	58		
Holyhead ...	30.27	61	SW	2	0	30.32	+0.05	61	60	+1	NNW	2	0	1	67	58		
Liverpool (Bidston) ...	30.24	61	N	1	c	30.29	+0.05	60	58	-1	N	1	0	1	64	57		
Valencia ...	30.35	61	NW	2	c	30.38	+0.03	60	59	0	2	0	0	1	66	58		
Roche's Point... ..	30.31	67	N	4	c	30.37	+0.06	64	60	+4	N	2	b	2	72	60		
Pembroke ...	30.29	60	NNW	2	c	30.33	+0.04	63	60	+3	2	0	b	1	63	58		
Portishead ...	30.24	65	NW	2	0	30.30	+0.06	63	61	+2	NNW	1	0	2	68	55		
Scilly ...	30.20	60	NNE	4	c	30.32	+0.12	63	61	+2	ENE	2	0	2	63	59		
Plymouth ...	30.26	64	NNW	2	0	30.31	+0.05	65	62	+3	2	0	b	*	72	55		
Hurst Castle ...	30.22	61	N	3	0	30.28	+0.06	65	62	0	N	3	b	2	71	54		
Dover ...	30.20	64	WSW	1	b	30.28	+0.08	65	61	+4	2	0	b	0	68	56		
London ...	30.21	69	NNW	2	b	30.27	+0.06	61	58	0	N	1	b	*	71	50		
Oxford ...	*	*	*	*	*	30.26	+0.05	62	58	+4	NNW	2	0	*	66	52		
Cambridge ...	30.22	71	N	1	0	30.28	+0.06	60	58	-1	N	1	b	*	71	49		
Yarmouth ...	30.21	61	NE	2	b	30.27	+0.06	61	58	-3	ESE	1	b	1	65	54		
The Helder ...	*	*	*	*	*	30.21	+0.13	58	54	-1	NW	2	c	*	*	*		
Cape Gris Nez ...	30.20	64	N	1	m	30.28	+0.08	64	59	+5	2	0	b	0	72	55		
Jersey ...	30.20	59	NE	2	b	30.32	+0.12	65	62	0	NNE	2	b	0	69	57		
Brest ...	30.31	75	NE	3	b	30.36	+0.05	59	54	0	ENE	3	b	2	75	54		
L'Orient ...	30.19	69	NE	4	b	30.27	+0.08	63	59	+2	ENE	3	b	2	77	55		
Rochefort ...	30.12	77	ENE	5	b	30.19	+0.07	63	61	-3	NE	4	b	2	82	57		
Biarritz ...	30.01	73	WSW	4	c	30.07	+0.06	72	68	+4	ENE	1	m	3	75	64		
Corunna ...	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*		
Brussels ...	*	*	*	*	*	30.28	+0.12	58	54	-2	N	2	0	*	71	54		
Charleville ...	*	*	*	*	*	30.14	+0.06	60	*	+5	E	1	b	*	*	*		
Paris ...	30.17	69	NE	2	b	30.27	+0.10	61	57	+3	NNW	3	b	*	*	*		
Lyons ...	*	*	*	*	*	30.10	-0.06	66	*	0	N	2	b	*	*	*		
Toulon ...	29.93	79	SW	3	b	29.97	+0.04	79	64	+15	2	0	m	2	82	66		

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

	Bar.	Dry.	Wet.	Wind.	Wes.	Sea.		Bar.	Dry.	Wet.	Wind.	Wes.	Sea.		
Skudesnaes ...	29.95	56	52	rw	8	c	3	Valencia .....	30.37	65	61	wnw	2	b c	3
Thurso .....	30.16	61	57	rw	2	c	3	Scilly .....	30.31	61	58	nne	4	0	3
Scarborough ...	30.19	59	57	ENE	1	0	1	London .....	30.22	62	63	wnw	2	c	*
Greencastle ...	30.23	60	57	wnw	4	0	*	Rochefort ...	30.13	82	72	ENE	5	b	3
Holyhead .....	30.27	65	61	wnw	3	c	2								

No important change

## EXPLANATION OF COLUMNS.

**WEATHER.**—Beaufort Scale is, b. blue sky; c. detached clouds; d. drizzling rain; f. fog; g. dark, gloomy; h. hail; l. lightning m. misty (hazy); o. overcast; p. passing showers; q. 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 o'clock (Paris time) in France.

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







# DAILY WEATHER REPORT

JULY 17<sup>TH</sup>

1878.

STATIONS.	† YESTERDAY EVENING.						8 A.M. TO DAY.							LAST 24 HOURS.			
	Barometer at 32° F. and Sea Level.	Temp. in shade.	WIND.		Weather.	BAROMETER.		GRADE 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 ...	29.80	66	Z	0	bc	29.82	+0.08	67	62	-1	Z	0	c	*	72	57	0.04
Hernösand ...	29.84	68	W	2	b	29.89	+0.09	61	53	-3	W	4	bc	*	*	*	-
Stockholm ...	29.86	66	Z	0	b	29.88	+0.12	68	60	+5	WNE	2	b	*	*	*	-
Wisby ...	29.83	62	W	2	b	29.86	+0.06	62	60	+2	W	2	b	*	*	*	-
Christiansund ...	29.94	57	W	3	o	29.97	+0.00	54	52	-2	W	6	o	3	61	50	0.04
Skudesnaes ...																	
Oxö (Klansand) ...	29.94	66	W	4	c	29.95	+0.02	67	59	0	W	2	b	2	72	59	-
Skagen (The Sæw) ...	29.95	58	W	4	c	29.92	+0.02	62	59	-1	W	4	b	4	72	54	-
Fanö ...	30.13	57	W	4	c	30.10	+0.12	60	53	+2	W	6	c	*	63	54	-
Cuxhaven ...	30.20	59	W	4	o	30.18	+0.12	64	63	+5	W	4	o	*	?	54	-
Sumburgh Head ...	30.05	54	W	4	o	30.05	+0.04	55	52	+3	W	3	o	2	57	50	0.22
Stornoway ...	30.10	60	W	5	W	30.09	+0.02	60	59	+1	W	5	o	5	64	52	0.10
Thurso ...	30.13	59	W	2	c	30.11	+0.04	60	58	-1	W	1	o	3	63	56	0.04
Wick ...	30.12	60	W	1	o	30.10	+0.03	62	61	-1	W	1	o	0	68	54	0.06
Nairn ...	30.14	66	W	1	bc	30.14	+0.03	65	58	+3	W	3	b	2	70	59	0.02
Aberdeen ...	30.13	67	Z	0	o	30.15	+0.04	68	64	+3	W	1	bc	0	72	56	0.02
Leith ...	30.18	65	W	4	c	30.20	+0.04	63	60	0	W	4	c	*	72	58	-
Shields ...	30.20	60	W	2	bc	30.23	+0.02	63	61	0	W	5	c	2	72	59	-
Scarborough ...	30.23	64	SE	1	bc	30.26	+0.02	64	61	0	W	1	o	1	68	59	-
York ...	30.24	70	W	1	c	30.28	+0.03	66	63	+2	W	3	o	*	75	57	-
Nottingham ...	30.23	70	W	1	b	30.29	+0.01	68	65	+4	W	1	m	*	78	52	-
Ardrossan ...	30.26	63	W	2	o	30.25	+0.02	61	59	+1	W	1	o	2	63	59	-
Greencastle ...	30.27	62	W	2	o	30.26	+0.00	63	60	+3	W	2	o	*	67	57	-
Donaghadee ...	30.31	60	SE	1	b	30.30	+0.03	63	60	-2	W	3	b	2	67	55	-
Kingstown ...	30.31	70	W	1	bc	30.35	+0.01	61	58	-2	W	4	o	3	71	59	-
Holyhead ...	30.34	65	W	2	o	30.34	+0.02	61	59	0	W	3	o	2	68	58	-
Liverpool (Bidston) ...	30.31	62	W	2	c	30.31	+0.02	63	61	+3	W	3	o	1	66	60	-
Valencia ...	30.37	62	W	2	c	30.39	+0.01	62	59	+2	W	2	o	2	70	56	-
Roche's Point ...	30.37	68	W	2	bc	30.37	+0.00	62	58	-2	W	2	c	2	73	58	-
Pembroke ...	30.34	66	W	1	b	30.34	+0.01	64	62	+1	Z	0	b	1	67	60	-
Portishead ...	30.28	71	W	3	bc	30.32	+0.02	65	62	+2	W	2	b	2	74	56	-
Scilly ...	30.33	64	W	4	b	30.34	+0.02	64	62	+1	W	4	b	2	66	61	-
Plymouth ...	30.30	70	W	2	o	30.33	+0.02	66	63	+1	W	1	b	*	71	57	-
Hurst Castle ...	30.37	75	W	3	bc	30.31	+0.03	69	65	+4	E	1	b	1	77	54	-
Dover ...	30.29	65	W	1	b	30.32	+0.04	69	64	+4	Z	0	b	0	69	59	-
London ...	30.27	72	W	1	b	30.31	+0.04	67	62	+6	W	1	b	*	78	50	-
Oxford ...	*	*	*	*	*	30.32	+0.06	65	60	+8	W	1	b	*	72	56	-
Cambridge ...	30.28	72	W	1	c	30.30	+0.02	66	61	+6	Z	0	b	*	76	51	-
Yarmouth ...	30.27	64	SE	3	bc	30.29	+0.02	65	61	+4	W	2	b	1	65	55	-
The Helder ...	*	*	*	*	*	30.26	+0.05	64	61	+6	W	1	b	*	*	*	-
Cape Gris Nez ...	30.29	64	NE	1	b	30.33	+0.05	66	63	+2	Z	0	m	0	72	59	-
Jersey ...	30.29	65	NE	3	b	30.33	+0.01	69	65	+4	ESE	1	b	1	70	59	-
Brest ...	30.33	73	ENE	5	b	30.35	-0.01	61	59	+2	E	3	b	3	75	55	-
L'Orient ...	30.20	72	ENE	4	b	30.25	-0.02	64	59	+1	ENE	4	b	3	79	57	-
Rochefort ...	30.13	79	ENE	5	b	30.16	-0.03	64	61	+1	E	5	b	3	78	54	-
Biarritz ...	30.95	75	W	2	bc	30.24	+0.03	70	68	-2	W	3	bc	3	77	68	-
Corunna ...	*	*	*	*	*										*	*	*
Brussels ...	*	*	*	*	*	30.31	+0.03	63		+5	NE	1	b	*	72	53	-
Charleville ...	*	*	*	*	*	30.25	+0.11	60		0	E	1	b	*	*	*	-
Paris ...	30.24	72	ENE	4	b	30.30	+0.03	67	59	+6	ENE	2	b	*	*	*	-
Lyons ...	*	*	*	*	*	30.19	+0.09	66		0	SE	2	b	*	*	*	-
Toulon ...	29.99	72	E	3	bc	30.06	+0.09	77	66	-2	E	5	m	3	79	?	-

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

	Bar.	Dry.	Wet.	Wind.	Wes.	Sea.		Bar.	Dry.	Wet.	Wind.	Wes.	Sea.		
Skudesnaes ...	30.03	55	51	W N W	2	o	3	Valencia .....	30.39	68	63	S	1	b-m	2
Thurso .....	30.11	61	59	W	4	c	3	Scilly .....	20.34	66	61	E N E	3	b	1
Scarborough ...	30.24	63	60	SSE	1	c	1	London .....	30.29	74	67	W	1	b-c	4
Greencastle ...	30.27	64	61	W	2	o	4	Rochefort ...	30.15	84	66	E N E	6	b	4
Holyhead .....	30.34	66	63	W N W	2	o	1								

The centre of the anticyclone has passed to the E<sup>ward</sup> of Valencia, where the barometer has ceased rising and a slight S<sup>W</sup> air is reported, with very fine weather.

## EXPLANATION OF COLUMNS.

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

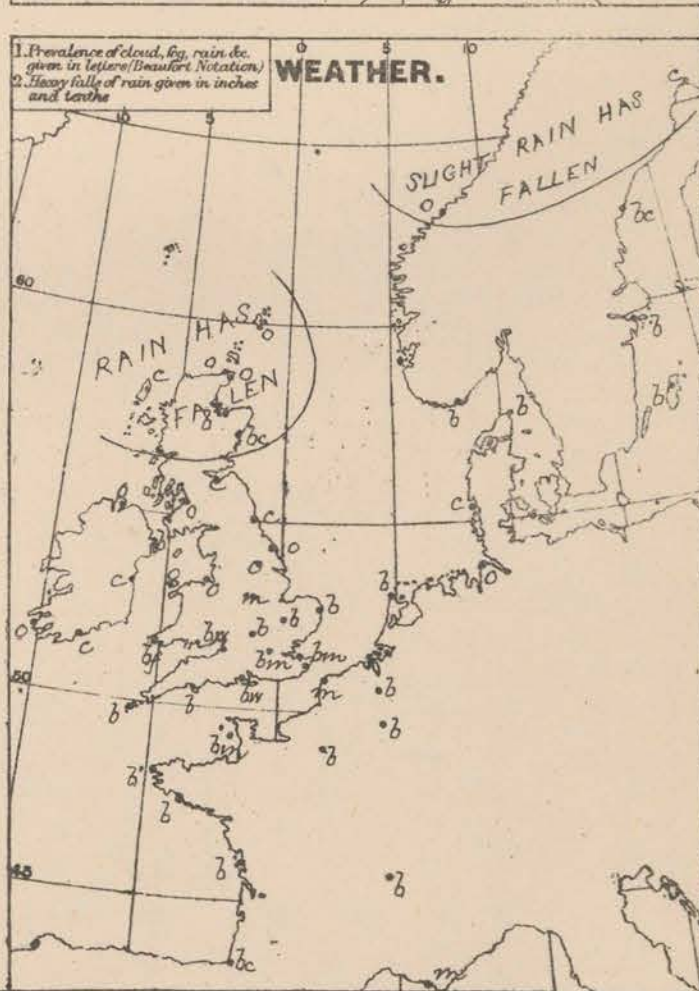
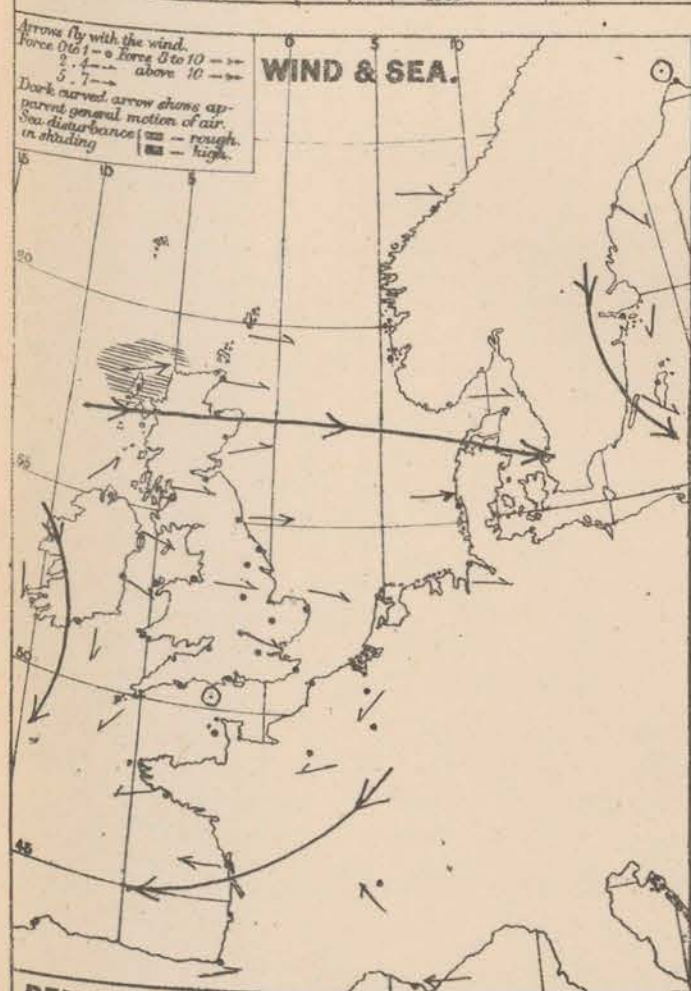
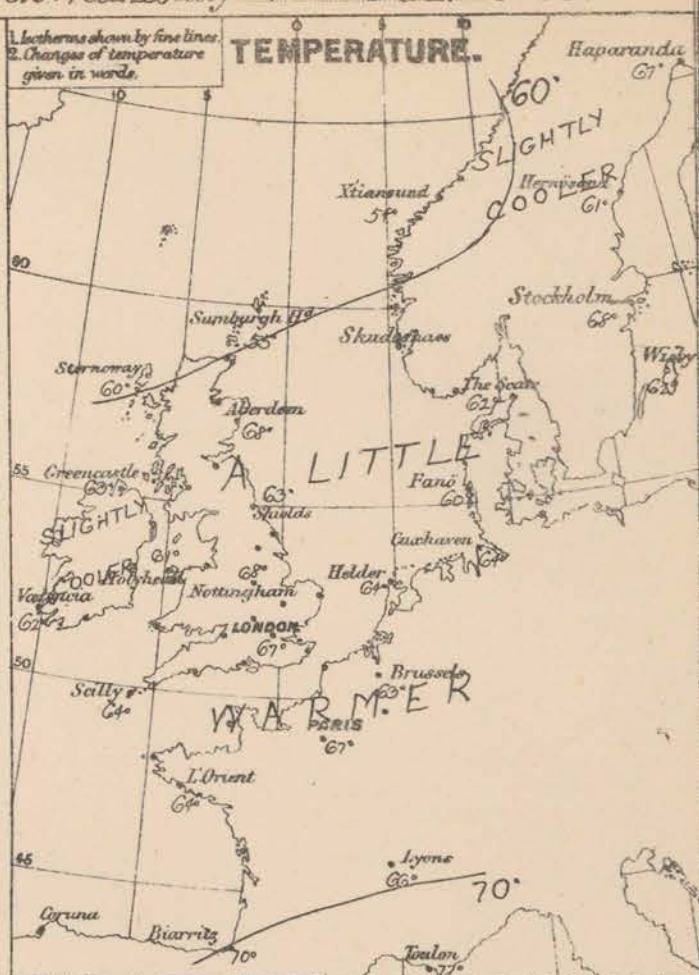
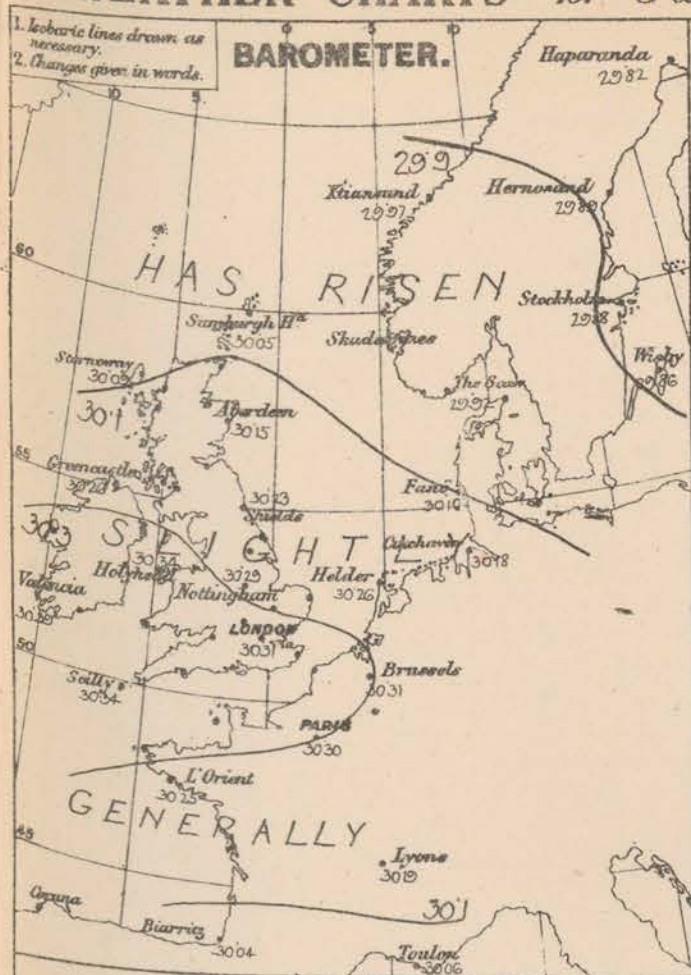
\* AN ASTERISK is inserted in all places for which information is not usually received.

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

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



WEATHER CHARTS for 8 a.m. on Wednesday 17<sup>th</sup> JULY 1878.



**REMARKS.** Weather this morning is very fine over nearly the whole of Western Europe, but in the extreme north of our Island and at Christiansund the sky remains very cloudy. Some rain fell at all our most northern stations yesterday but by far the largest amount reported is only 0.2 in., at Lumburg H. Temperature is rising everywhere and is singularly uniform. Thus the reading at Haparanda is 67°, Stockholm 68°, Oso 67°, Aberdeen 68°, York 66°, London 67° and Paris 67°. The highest readings recorded in our Islands yesterday were 70° at Nottingham and London and 71° at Hull in the, while 84° was reported at Rochefort. Wind is light to moderate from the W. over the greater part of our Island, and fresh from the same quarter on the eastern shores of the North Sea, while in France it is moderate from the E. Sea is smooth except in the extreme north west.

Barometrical Indications. The use of high pressure recently noticed in the west is still found there this morning and has extended E<sup>nd</sup> over the greater part of England. The changes in the barometer are now very slight everywhere.

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 JULY 18<sup>TH</sup> 1878.

STATIONS.	† YESTERDAY EVENING.						8 A.M. TO DAY										PAST 24 HOURS		
	Barometer at 32° F. and Sea Level.	Temp. in shade.	WIND.		Weather.	Barometer at 32° F. and Sea Level.	SHADE TEMP.			WIND.		Weather.	Sec. (9 to 12).	SHADE TEMP.		Amount of Rainfall.			
			Dir.	Force. (9 to 12).			Dry.	Wet.	Difference from 8 a.m. yesterday.	Dir.	Force. (9 to 12).			Max.	Min.				
Haparanda ...	29.75	63	SW	2	bc	?	?	64	59	- 3	?	?	c	*	73	51	-		
Hernösand ...	29.83	63	?	0	c	29.78	- 11	52	51	- 9	N	4	bc	*	*	*	0.28		
Stockholm ...	29.88	64	?	0	b	29.73	- 15	67	62	- 1	N	2	c	*	*	*	0.30		
Wisby ...	29.90	63	NN	2	b	29.80	- 06	64	62	+ 2	NNW	4	c	*	*	*	-		
Christiansund ...	29.89	53	WSW	4	bc	29.91	- 06	55	51	+ 1	N	3	bc	4	59	46	0.6		
Skudesnaes ...	30.04	55	WSW	4	bc	29.99	- 02	56	56	-	NNW	6	bc	3	59	53	0.16		
Oxö (Xiansand) ...	29.95	65	W	6	c	29.93	- 02	58	56	- 9	WSW	6	c	3	?	55	-		
Skagen (The Seaw) ...	29.91	60	N	3	c	29.89	- 03	60	59	- 2	N	6	c	5	72	55	-		
Fanö ...	30.13	59	W	4	c	30.09	- 01	63	60	+ 3	N	6	c	*	64	57	-		
Cuxhaven ...	30.22	64	NNW	3	o	30.12	00	66	65	+ 2	NNW	4	bc	*	68	59	-		
Sumburgh Head ...	29.94	56	NNW	5	bc	30.06	+ 01	55	55	0	NN	5	bc	5	58	52	0.3		
Stornoway ...	30.06	62	WSW	6	o	30.17	+ 08	66	59	+ 6	WSW	4	bc	4	?	55	-		
Thurso ...	30.04	64	N	3	bc	30.16	+ 05	62	59	+ 2	N	3	bc	3	70	56	-		
Wick ...	30.02	68	N	3	bc	30.15	+ 05	63	61	+ 1	NNW	4	bc	1	73	55	-		
Nairn ...	30.09	63	N	4	o	30.20	+ 06	66	59	+ 1	N	3	bc	1	76	60	-		
Aberdeen ...	30.08	73	NN	1	b	30.20	+ 05	70	63	+ 2	NN	1	bc	0	78	59	-		
Leith ...	30.19	66	N	4	c	30.25	+ 05	68	63	+ 5	WSW	4	bc	*	72	60	-		
Shields ...	30.22	72	NW	5	b	30.28	+ 05	67	65	+ 4	NN	5	bc	2	75	62	-		
Scarborough ...	30.23	67	SE	1	b	30.27	+ 01	?	?	?	NN	3	bc	2	77	63	-		
York ...	30.25	70	N	2	b	30.31	+ 03	71	66	+ 5	N	2	bc	*	81	60	-		
Nottingham ...	30.29	70	WSW	1	b	30.33	+ 04	77	70	+ 9	NN	2	bc	*	86	57	-		
Ardrossan ...	30.26	64	N	2	c	30.32	+ 07	61	59	0	NNW	3	bc	2	69	61	0.01		
Greencastle ...	30.28	68	N	4	o	30.37	+ 11	65	63	+ 2	N	2	o	*	69	60	-		
Donaghadee ...	30.31	67	N	2	c	30.38	+ 08	68	65	+ 5	NNW	2	c	1	78	63	-		
Kingstown ...	30.35	71	NNW	3	o	30.42	+ 07	67	64	+ 6	NN	4	c	3	72	60	-		
Holyhead ...	30.35	69	NNW	1	b	30.41	+ 07	64	62	+ 3	NN	1	o	0	71	61	-		
Liverpool (Bidston) ...	30.33	65	NNW	2	bc	30.37	+ 06	64	62	+ 1	NNW	2	o	1	67	62	-		
Valencia ...	30.38	66	NN	3	b	30.44	+ 05	68	64	+ 6	?	0	bc	1	68	56	-		
Roche's Point ...	30.41	70	SW	2	bc	30.44	+ 07	68	64	+ 6	N	2	bc	2	76	58	-		
Pembroke ...	30.33	69	N	2	b	30.39	+ 05	68	64	+ 4	NE	1	bc	0	70	61	-		
Portishead ...	30.28	70	N	2	b	30.35	+ 03	69	65	+ 4	NNW	3	bc	2	78	59	-		
Scilly ...	30.33	64	NNE	4	bc	30.35	+ 01	65	63	+ 1	NE	4	bc	2	68	61	-		
Plymouth ...	30.30	70	S	1	b	30.35	+ 02	71	67	+ 5	NNE	1	bc	*	75	59	-		
Hurst Castle ...	30.27	71	WSW	2	b	30.34	+ 03	71	67	+ 2	NE	3	bc	2	77	63	-		
Dover ...	30.29	66	WSW	1	b	30.32	00	70	63	+ 1	NNW	3	bc	1	71	64	-		
London ...	30.27	79	N	1	b	30.34	+ 03	70	63	+ 3	ENE	1	bc	*	83	59	-		
Oxford ...	*	*	*	*	*	30.36	+ 04	68	64	+ 3	NW	3	bc	*	80	60	-		
Cambridge ...	30.26	78	NN	1	b	30.33	+ 03	69	64	+ 3	NN	1	bc	*	83	57	-		
Yarmouth ...	30.26	67	SSE	2	b	30.31	+ 02	69	64	+ 4	NNW	2	bc	1	69	59	-		
The Helder ...	*	*	*	*	*	30.26	00	65	62	+ 1	WSW	1	bc	*	*	*	-		
Cape Gris Nez ...	30.32	68	?	0	m	30.33	00	66	63	0	NE	1	bc	0	73	63	-		
Jersey ...	30.30	72	ENE	2	b	30.36	+ 03	72	65	+ 3	NE	2	bc	2	75	62	-		
Brest ...	30.33	77	ENE	4	b	?	?	64	61	+ 3	ENE	3	bc	2	81	57	-		
L'Orient ...	30.21	73	ENE	4	b	30.29	+ 04	68	63	+ 4	ENE	3	bc	2	82	59	-		
Rochefort ...	30.15	79	E	4	b	30.22	+ 06	70	63	+ 6	ENE	4	bc	3	91	54	-		
Biarritz ...	30.04	77	WSW	4	bc	30.13	+ 09	73	70	+ 3	?	0	bc	3	81	68	-		
Corunna ...	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	-		
Brussels ...	*	*	*	*	*	30.29	- 02	69	64	+ 6	NE	1	bc	*	80	60	-		
Charleville ...	*	*	*	*	*	30.23	- 02	66	*	+ 6	NNE	1	bc	*	*	*	-		
Paris ...	30.25	76	E	4	b	30.32	+ 02	70	62	+ 3	NNE	1	bc	*	*	*	-		
Lyons ...	*	*	*	*	*	30.24	+ 05	70	*	+ 4	NE	2	bc	*	*	*	-		
Toulon ...	30.10	82	E	3	b	30.16	+ 10	81	70	+ 4	ESE	1	bc	2	84	77	-		

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

	Bar.	Dry.	Wet.	Wind.	Wea.	Sea.		Bar.	Dry.	Wet.	Wind.	Wea.	Sea.		
Skudesnaes ...	30.08	59	54	W N W	2	c	2	Valencia .....	30.40	67	63	N W	2	b c	2
Thurso .....	30.06	70	65	W S W	2	c	3	Scilly .....	30.34	68	64	N E	4	b	1
Scarborough ...	30.27	67	64	S S E	1	b c	1	London .....	30.30	77	69	N E	4	b	?
Greencastle ...	30.28	67	64	W	2	o	?	Rochefort ...	30.17	91	84	E	4	b	3
Holyhead .....	30.42	65	61	W N W	1	b	0								

No important change is reported 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.

\* 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.

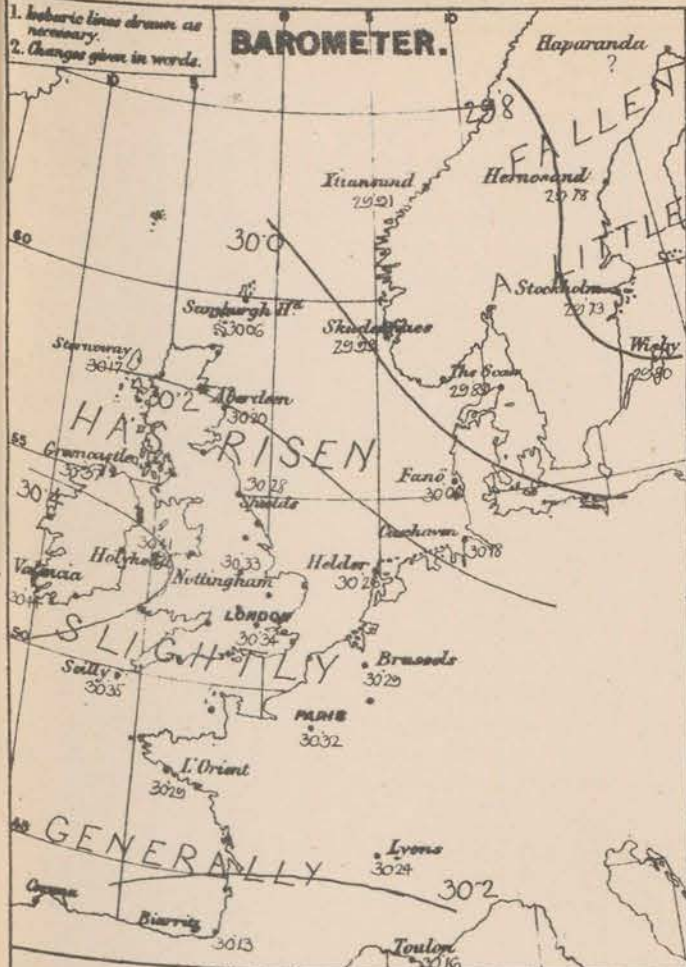
N.B.—The wind is said to "veer" when its direction changes with the sun, and to "back" when it shifts in the opposite direction.



# WEATHER CHARTS for 8 a.m. on Thursday 18<sup>th</sup> JULY 1878.

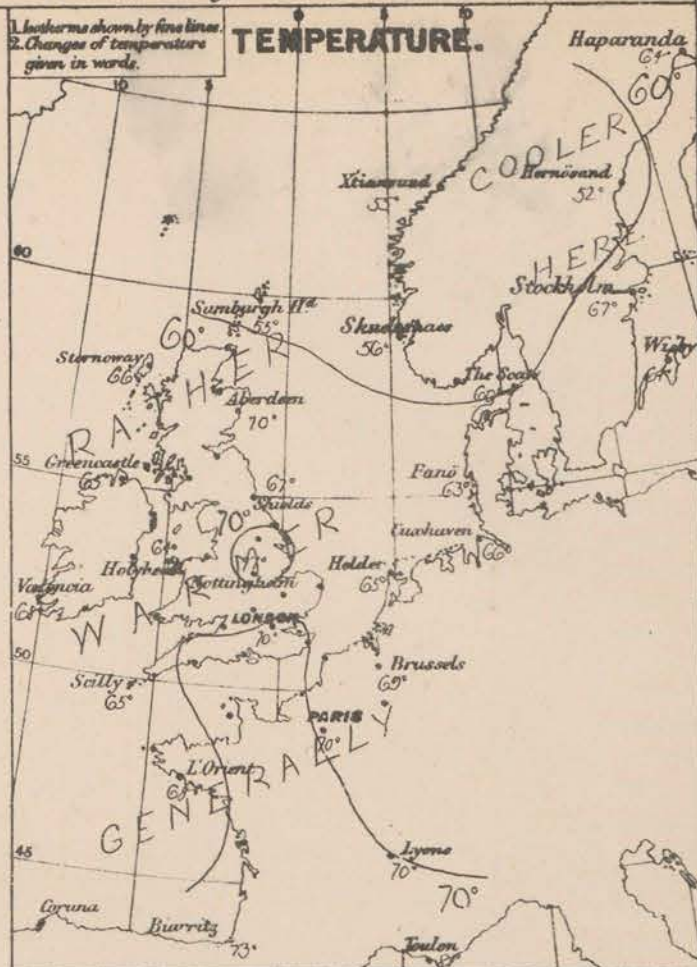
1. Isobaric lines drawn as necessary.
2. Changes given in words.

## BAROMETER.



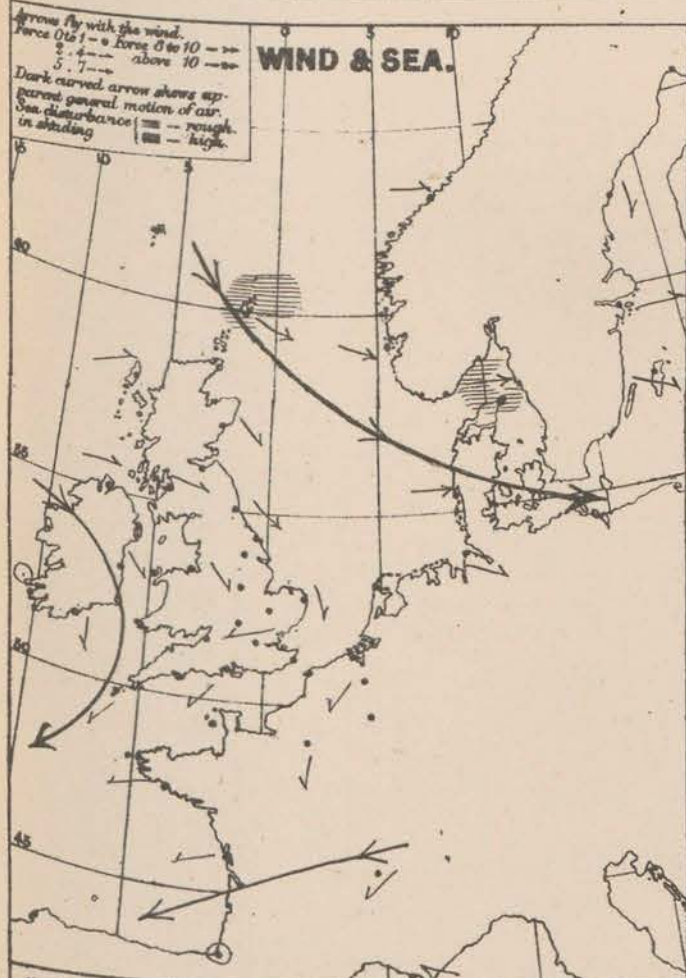
1. Isotherms shown by fine lines.
2. Changes of temperature given in words.

## TEMPERATURE.



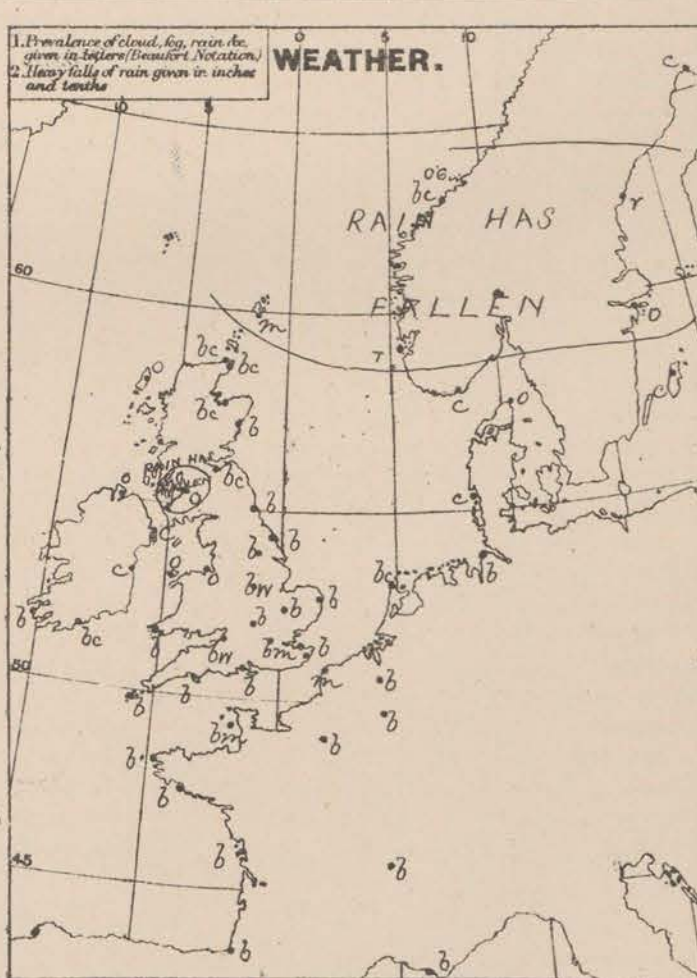
1. Force 0 to 10 - - - - -
  2. Force 10 to 20 - - - - -
  3. Force 20 to 30 - - - - -
  4. Force 30 to 40 - - - - -
  5. Force 40 to 50 - - - - -
  6. Force 50 to 60 - - - - -
  7. Force 60 to 70 - - - - -
  8. Force 70 to 80 - - - - -
  9. Force 80 to 90 - - - - -
  10. Force 90 to 100 - - - - -
- Dark curved arrow shows apparent general motion of air. Sea 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 still very fine, bright and summerlike over the whole of France, Holland, England and the southern part of Ireland but is cloudy or overcast on our north west coasts. Rain fell in the Shetland Isles yesterday to the depth of 0.32 in., and a still larger fall occurred in Norway and Sweden. Elsewhere the weather was very dry. Temperature continues to increase generally, and is already above 70° at many of the British stations. The maximum readings yesterday were as high as 81° at York, 83° at Cambridge and in London and 91° at Rochefort, in the south west of France. These readings gave a total range of 33° in London during yesterday, the lowest reading in the morning having been only 50°. Wind is moderate from W. to NW in the north of our Islands and strong from W. on the eastern shores of the North Sea but light from ENE in France, the Channel and extreme south of England. It blew strongly from W. at some of the northern stations last evening, and at Shields a fresh gale occurred about midnight. Sea is smooth except in the far north.

**Barometrical Indications.** Baromet. remains highest (above 30.4 in.) over Ireland, and lowest (29.75 in.) over the Gulf of Bothnia; and (30.1 in.) in the south of France. The barometer is rising at all but the Scandinavian stations, so that no important change is likely at present.

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 JULY 12<sup>TH</sup> 1878:

STATIONS.	† YESTERDAY EVENING.						8 A.M. TO DAY.										LAST 24 HOURS.		
	Barometer at 32° F. and Sea Level.	Temp. in shade.	WIND.		Weather.	Reading at 32° F. and Sea Level.	Difference from 32° F. and Sea Level.	SHADE TEMP.		Difference from 32° F. and Sea Level.	WIND.		Weather.	Temp. (0 to 12).	Temp. (0 to 12).	Temp. (0 to 12).	SHADE TEMP.		Amount of Rainfall.
			Dir.	Force (0 to 12).				Dry.	Wet.		Dir.	Force (0 to 12).					Max.	Min.	
Haparanda	29.64	55	W	2	2	29.60	0	55	52	-3	N	1	C	2	66	45	-	-	-
Hernösand	29.72	58	W	2	60	29.69	-0.03	58	48	-10	W	4	C	2	66	45	-	-	-
Stockholm	29.80	59	W	0	0	29.70	-0.10	58	58	0	NNE	2	C	2	66	45	-	-	-
Wiskby	29.81	59	ENE	4	0	29.72	-0.09	62	58	-4	W	4	C	2	66	45	-	-	-
Christiansund	29.86	53	WSW	3	1	29.72	-0.14	53	51	-2	WSW	7	N	2	55	44	0.16	-	-
Skudesnaes	30.04	56	WNW	2	1	29.99	-0.05	55	53	-2	WNW	6	O	3	59	55	0.04	-	-
Oxö (Klansand)	29.95	63	WNW	2	6	29.91	-0.04	59	57	-2	W	8	6	2	72	52	-	-	-
Skagen (The Sea)	29.84	63	WNW	6	6	29.80	-0.04	62	57	-5	WNW	8	6	7	72	55	-	-	-
Fanö	30.12	58	WNW	6	C	30.05	-0.07	62	57	-5	WNW	6	C	2	66	57	-	-	-
Cuxhaven	30.20	63	WNW	2	0	30.14	-0.06	64	62	-2	WNW	5	O	2	68	59	-	-	-
Sumburgh Head	30.01	55	W	5	6	30.11	+0.10	54	53	-1	W	5	O	5	58	51	0.02	-	-
Stornoway	30.20	62	W	6	60	30.22	+0.02	59	55	-4	W	6	O	5	67	56	-	-	-
Thurso	30.16	60	W	4	0	30.26	+0.10	59	58	-1	WNW	3	O	4	70	56	-	-	-
Wick	30.15	68	WNW	6	60	30.20	+0.05	62	60	-2	W	3	O	2	76	57	-	-	-
Nairn	30.22	70	W	2	0	30.24	+0.02	67	61	-6	W	0	6	1	76	63	-	-	-
Aberdeen	30.20	76	WNW	3	6	30.23	+0.03	72	65	-7	WNW	2	6	0	81	65	-	-	-
Leith	30.25	75	W	4	6	30.27	+0.02	71	65	-6	W	3	6	2	80	60	-	-	-
Shields	30.27	78	W	5	6	30.30	+0.03	67	65	-2	W	2	6	2	82	60	-	-	-
Scarborough	30.23	70	SE	1	6	30.27	+0.04	73	68	-5	W	2	6	2	79	65	-	-	-
York	30.29	80	W	2	6	30.31	+0.02	70	65	-5	W	1	6	2	85	60	-	-	-
Nottingham	30.31	75	W	2	6	30.31	-0.02	76	70	-6	W	1	6	2	88	59	-	-	-
Ardrossan	30.38	64	W	3	0	30.33	-0.05	62	60	-2	WNW	1	C	0	71	59	0.03	-	-
Greenecastle	30.40	67	WNW	3	0	30.34	-0.06	62	61	-1	W	1	C	0	72	55	-	-	-
Donaghadee	30.40	70	NNE	3	60	30.36	-0.04	60	58	-2	NNE	2	6	1	71	55	-	-	-
Kingstown	30.42	71	SE	1	60	30.39	-0.03	62	60	-2	W	1	6	1	72	60	-	-	-
Holyhead	30.41	68	WNW	1	C	30.36	-0.05	62	60	-2	W	2	6	1	70	68	-	-	-
Liverpool (Belton)	30.37	67	W	2	6	30.34	-0.03	62	61	-1	W	1	6	1	69	60	0.01	-	-
Valencia	30.40	70	WNW	2	C	30.37	-0.03	71	64	-7	W	0	6	1	75	63	-	-	-
Roche's Point	30.44	70	W	1	C	30.33	-0.11	66	62	-4	W	4	C	3	75	60	-	-	-
Pembroke	30.37	69	W	2	6	30.30	-0.07	62	64	+2	W	1	6	0	73	61	-	-	-
Portishead	30.31	76	W	3	6	30.30	-0.01	67	65	-2	WNW	4	O	3	81	62	-	-	-
Seilly	30.35	66	NNE	5	6	30.26	-0.09	69	61	-8	ENE	5	6	2	72	62	-	-	-
Plymouth	30.32	74	WSW	1	6	30.27	-0.05	72	68	-4	ENE	3	6	2	81	64	-	-	-
Hurst Castle	30.30	74	W	1	6	30.28	-0.02	72	69	-3	NNE	1	6	1	81	63	-	-	-
Dover	30.32	68	ENE	3	6	30.30	-0.02	70	64	-6	E	3	6	1	71	62	-	-	-
London	30.33	81	W	2	6	30.30	-0.03	71	67	-4	ENE	1	6	2	84	62	-	-	-
Oxford	30.30	80	W	2	6	30.30	-0.06	69	65	-4	W	1	6	2	79	61	-	-	-
Cambridge	30.27	80	W	0	C	30.29	-0.04	68	65	-3	W	1	C	0	84	58	-	-	-
Yarmouth	30.31	70	NNE	2	6	30.30	-0.01	69	65	-4	NNE	2	6	0	72	60	-	-	-
The Helder	30.26	68	W	2	6	30.26	-0.06	66	62	-4	W	1	6	0	72	60	-	-	-
Cape Gris Nez	30.30	68	NNE	2	6	30.20	-0.10	68	64	-4	E	2	6	1	73	61	-	-	-
Jersey	30.32	72	NNE	1	6	30.26	-0.06	72	68	-4	ENE	2	6	2	79	64	-	-	-
Brest	30.36	81	E	4	6	30.26	-0.10	70	66	-4	E	3	6	3	87	63	-	-	-
L'Orient	30.28	77	ENE	6	6	30.17	-0.11	70	64	-6	ENE	3	6	1	88	63	-	-	-
Rocheport	30.20	84	E	5	6	30.17	-0.03	72	64	-8	E	3	6	3	100	59	-	-	-
Biarritz	30.13	75	WNW	1	6	30.11	-0.02	70	68	-2	WSW	3	6	3	79	63	-	-	-
Corunna	30.13	75	WNW	1	6	30.11	-0.02	70	68	-2	WSW	3	6	3	79	63	-	-	-
Brussels	30.23	80	W	2	6	30.23	-0.01	62	61	-1	W	2	O	2	84	60	-	-	-
Charleville	30.17	80	W	2	6	30.17	-0.06	62	61	-1	NNE	3	6	2	84	60	-	-	-
Paris	30.25	82	ENE	4	6	30.24	-0.01	70	65	-5	NNE	2	6	2	84	60	-	-	-
Lyons	30.17	80	W	2	6	30.17	-0.09	73	68	-5	E	2	6	2	84	60	-	-	-
Toulon	30.13	86	W	1	6	30.10	-0.03	72	66	-6	E	2	6	2	90	59	-	-	-

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

	Bar.	Dry.	Wet.	Wind.	Woe.	Sea.		Bar.	Dry.	Wet.	Wind.	Woe.	Sea.		
Skudesnaes ...	30.07	58	54	WNW	2	0	3	Valencia .....	30.43	74	68	NNW	1	C	1
Thurso .....	30.16	66	64	W	4	60	4	Seilly .....	30.38	71	65	ENE	3	6	2
Scarborough ...	30.28	70	66	ESE	1	6	1	London .....	30.32	79	72	W	2	C	2
Greenecastle ...	30.28	70	66	W	2	0	2	Rocheport ...	30.21	99	77	E	3	6	3
Holyhead .....	30.43	63	63	WNW	1	0	1								

The barometer shows no important change since the morning, but in London the sky has become clouded and the wind is backing towards NW.

## EXPLANATION OF COLUMNS.

**WEATHER.**—Beaufort scale in, 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 6 p.m. in our Islands, at 8 p.m. (Christiania time) in Sweden, Norway, and Denmark, and at 7 p.m. (Paris time) in France.

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







# DAILY WEATHER REPORT

JULY 20<sup>TH</sup>

1878.

STATIONS.	† YESTERDAY EVENING.					8 A.M. TO DAY.										PARTIAL 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.	
			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 ...	29.46	56	N	2	bc	29.73	+13	52	48	-3	N	6	0	*	61	43		
Hernösand ...	29.74	56	NNW	2	b	29.82	+13	57	49	+3	NNW	6	b	*	*	*		
Stockholm ...	29.73	57	NNW	2	bc	29.86	+16	58	54	0	NNW	2	bc	*	*	*	0.12	
Wisby ...	29.69	57	N	4	bc	29.82	+09	58	54	-4	NNE	6	b	*	*	*	0.35	
Christiansund ...	29.97	52	N	1	0	29.82	+10	51	49	-2	ESE	4	N	3	54	46	0.28	
Skudesnaes ...	30.08	55	NW	4	c	30.04	+05	55	55	0	N	4	N	4	59	54	0.01	
Oxö (Xtiansand)	29.92	63	NW	6	b	30.01	+10	58	52	-1	N	4	C	3	66	54		
Skagen (The Sæw)	29.87	61	NNW	3	b	29.99	+19	63	57	+1	N	0	b	0	73	55		
Fanö ...	30.06	57	NW	6	c	30.11	+06	60	57	-1	NNW	6	c	*	64	54		
Cuxhaven ...	30.16	62	NNW	5	c	30.15	+01	63	61	-1	NNW	5	bc	*	68	57		
Sumburgh Head	30.08	55	N	4	f	30.03	-08	54	54	0	N	4	f	4	59	52	0.01	
Stornoway	30.19	60	N	5	c	30.09	-13	60	57	+1	SSW	2	c	3	64	56		
Thurso ...	30.18	60	NNW	2	0	30.11	-10	57	57	-2	N	2	0	3	65	55		
Wick ...	30.17	65	NNW	4	bc	30.11	-09	58	57	-4	N	0	0	0	73	52		
Nairn ...	30.18	70	N	0	b	30.12	-12	62	56	-5	SW	1	b	0	75	65		
Aberdeen ...	30.17	65	NE	2	bc	30.13	-10	60	58	-12	S	1	0	0	76	58		
Leith ...	30.17	71	NNW	4	bc	30.12	-15	64	60	-7	NNW	2	bc	*	82	56		
Shields ...	30.21	70	SSW	2	b	30.15	-15	64	64	-3	N	0	bc	0	79	62		
Scarborough	30.23	64	SE	1	b	30.16	-12	72	67	-1	WSW	2	bc	2	75	63		
York ...	30.22	76	NE	2	b	30.17	-14	68	65	-2	S	1	b	*	82	60		
Nottingham ...	30.20	79	SE	3	b	30.19	-12	75	76	-1	SE	2	bc	*	91	60		
Ardrossan ...	30.24	64	N	1	0	30.15	-18	59	58	-3	NNW	1	nm	0	68	57	0.01	
Greencastle	30.25	62	ENE	2	0	30.15	-19	60	60	-3	NW	1	om	*	67	55		
Donaghadee ...	30.30	63	N	2	bc	30.17	-19	60	58	0	NE	2	0	1	65	56		
Kingstown ...	30.27	68	ESE	1	bc	30.18	-21	63	61	+1	N	0	0	0	68	60		
Holyhead ...	30.24	64	N	3	c	30.16	-20	60	59	-1	N	2	0	1	68	59		
Liverpool (Bidston)	30.24	63	NW	1	b	30.14	-20	70	66	+8	ESE	1	C	1	70	61		
Valencia ...	30.19	70	N	3	bc	30.11	-26	66	64	-5	N	0	bm	1	78	58		
Roche's Point...	30.23	70	E	2	c	30.14	-19	67	64	+1	NE	2	0	2	76	60		
Pembroke ...																		
Portsmouth	30.18	78	NW	2	0	30.13	-17	67	64	0	E	3	c	2	84	63		
Scilly ...	30.17	69	ENE	4	b	30.05	-21	67	64	-2	ENE	5	b	4	72	63		
Plymouth	30.16	75	SE	2	b	30.18	-09	70	66	-2	ESE	4	bc	*	81	65		
Hurst Castle	30.18	76	ESE	2	b	30.14	-16	71	68	-1	ESE	4	b	4	79	65		
Dover ...	30.22	71	E	4	b	30.17	-13	70	64	0	E	3	b	1	73	64		
London	30.21	78	E	3	b	30.17	-13	72	63	+1	SE	2	bc	*	88	60		
Oxford ...	*	*	*	*	*	30.16	-14	70	65	+1	SE	2	b	*	83	60		
Cambridge	30.20	79	ESE	1	c	30.18	-11	69	65	+1	SE	1	bc	*	86	64		
Yarmouth	30.26	68	NE	1	b	30.23	-07	65	63	-4	SE	2	b	1	70	61		
The Helder.	*	*	*	*	*	30.21	-05	66	62	+2	NNW	1	b	*	*	*		
Cape Gris Nez	30.21	66	ENE	3	b	30.16	-14	70	66	+2	E	2	bc	1	70	61		
Jersey ...	30.14	71	NE	4	b	30.06	-20	72	67	0	ENE	2	bm	0	77	65		
Brest ...	30.17	82	ENE	4	b	30.06	-21	72	72	+2	ESE	3	b	3	91	68		
L'Orient ...	30.03	79	NW	1	b	29.96	-21	72	68	+2	E	3	b	1	93	64		
Rochefort ...	30.06	81	NW	2	b	30.07	-10	68	66	-4	SW	2	0	2	100	63		
Biarritz ...	30.09	72	N	4	0	30.08	-03	68	64	-2	WSW	4	0	3	75	63		
Corunna ...	*	*	*	*	*			*	*	*				*	*	*		
Brussels ...	*	*	*	*	*	30.18	-10	66	61	+2	E	2	b	*	80	57		
Charleville ...	*	*	*	*	*	30.08	-09	70	*	+2	ENE	1	b	*	*	*		
Paris ...	30.11	80	ENE	4	b	30.08	-16	70	63	0	E	3	b	*	*	*		
Lyons ...	*	*	*	*	*	30.02	-13	75	*	+2	S	2	b	*	*	*		
Toulon ...	30.04	79	ENE	2	b	30.01	-09	77	66	+4	N	0	m	1	84	73		

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

	Bar.	Dry.	Wet.	Wind.	Wen.	Sea.		Bar.	Dry.	Wet.	Wind.	Wen.	Sea.		
Skudesnaes ...	30.08	57	53	nn	6	bc	4	Valencia .....	30.24	77	70	N	1	bc	2
Thurso .....	30.20	64	61	wnn	3	b	4	Scilly .....	30.21	71	67	E N E	4	b	2
Scarborough ...	30.28	68	65	E S E	1	bc	1	London .....	30.25	81	68	E	2	c	*
Greencastle ...	30.32	63	61	E S E	1	o	*	Rochefort ...	30.12	91	75	E	1	b	
Holyhead .....	30.31	65	62	N	3	c	2								

The barometer has fallen very briskly at Valencia since the morning but the winds reported show very little change. The weather is very hot over the S<sup>th</sup> and inland parts 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.

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

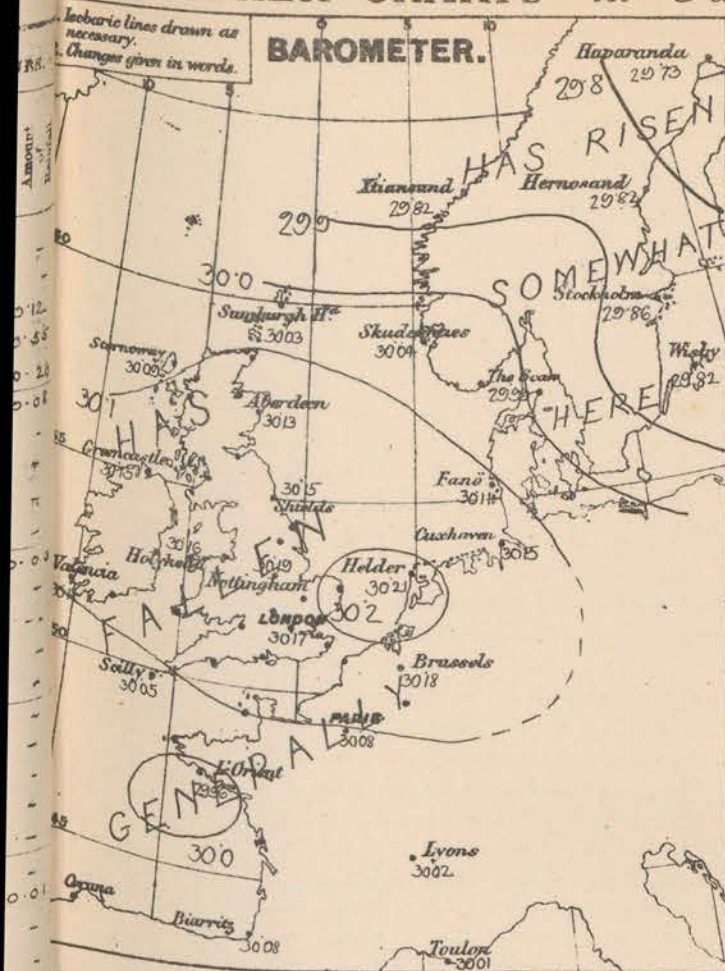
N.B.—The wind is said to "veer" when its direction changes with the sun, and to "back" when it shifts in the opposite direction.



WEATHER CHARTS *for 8 a.m. on Saturday 20<sup>th</sup> JULY 1878.*

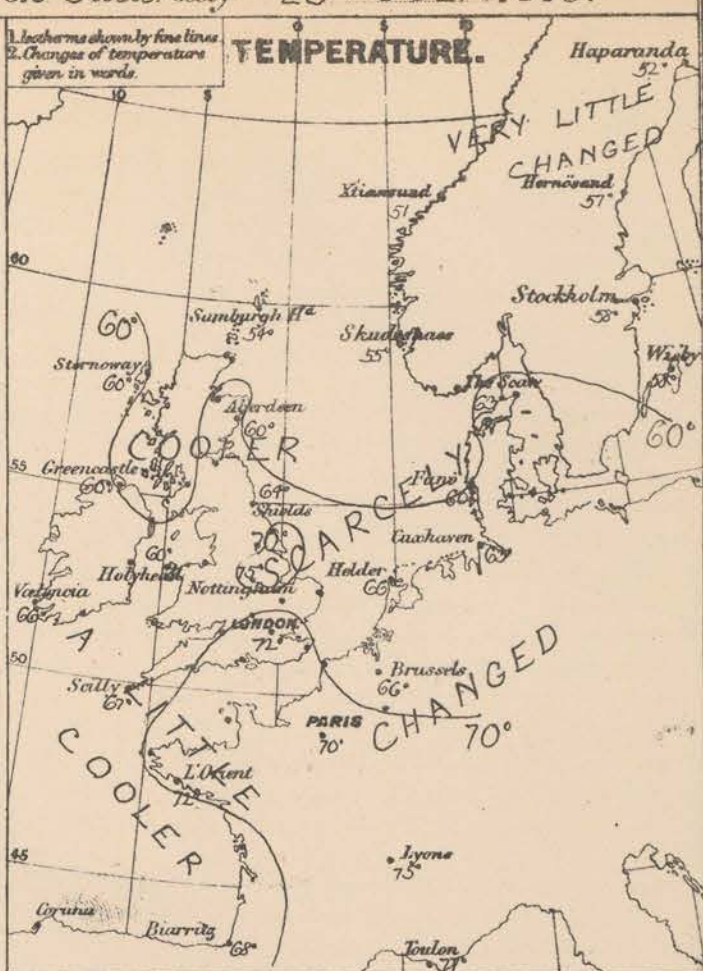
leobaric lines drawn as  
necessary.  
Changes given in words

**BAROMETER.**



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

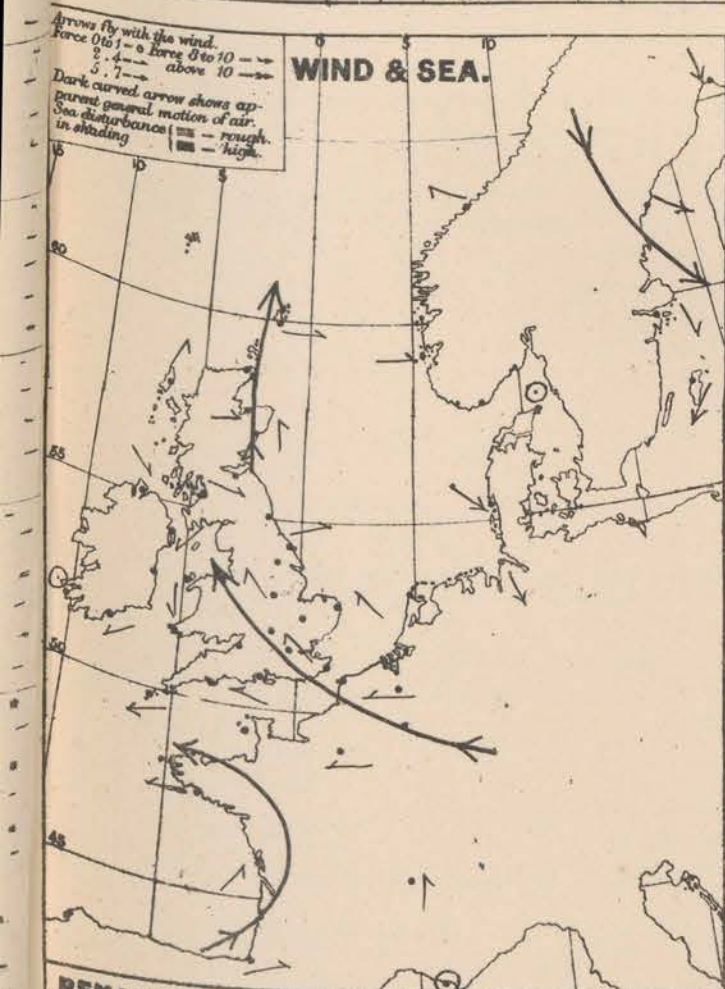
TEMPERATURE.



Arrows fly with the wind.  
Force 0 to 1 → Force 8 to 10 →  
2, 4 → above 10 →  
5, 7 →

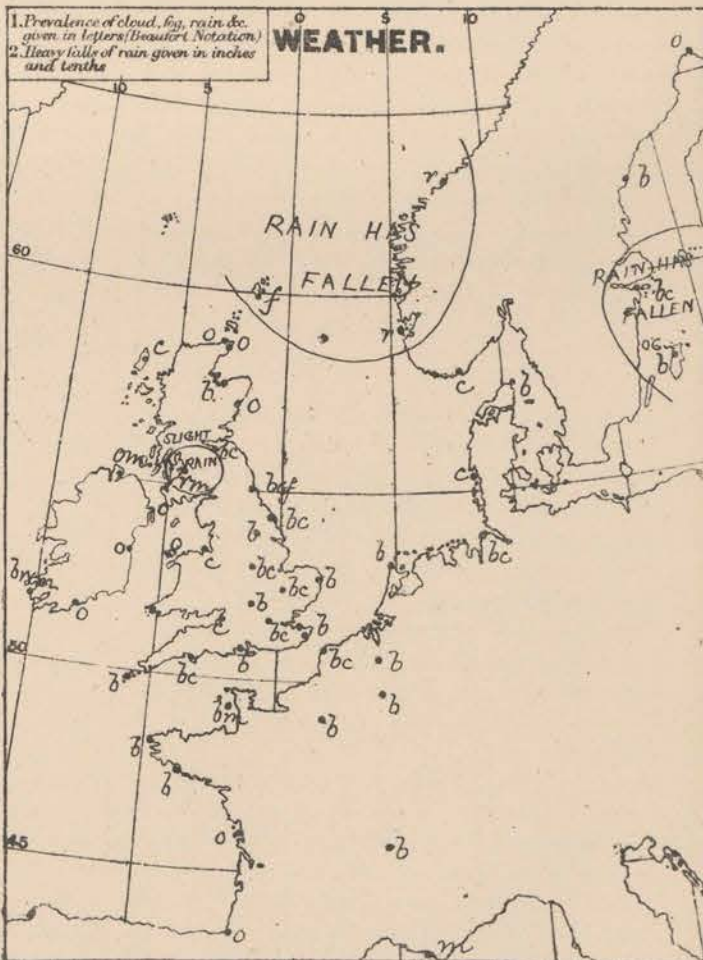
Dark curved arrow shows apparent general motion of air.  
Sea disturbances ( ) — rough.  
in shading ( ) — high.

## 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.

**REMARKS.** Weather remains very fine over France, Holland and the greater part of England but has become very cloudy on our north western and northern coasts, and rain is falling in the west of Norway. In the south west of France also the sky has become overcast. Temperature has fallen fast on our north, and north-east coasts, and is now from  $10^{\circ}$  to  $15^{\circ}$  colder in Scotland than in London. Over the central parts of France and England it is still very high. The highest readings reported for yesterday are  $91^{\circ}$  to  $100^{\circ}$  in the west of France,  $88^{\circ}$  in London,  $86^{\circ}$  at Cambridge,  $83^{\circ}$  at Oxford and  $82^{\circ}$  at York and Leeds. Wind is light from the W. in Scotland and the south of Norway, fresh from NW in Holstein and North Germany, light from E over the greater part of France, and from SE in the southern parts of England. In Ireland the wind is variable and in the south west of France a NW breeze has appeared, bringing with it dull weather, and much lower temperature. Sea is moderate to smooth.

Barometrical Indications. Pressure has given way very decidedly over the British Isles and France, while it has risen in Sweden, Norway and Denmark. Readings are very uniform over the United Kingdom but the highest reported (30.23 ins.) is now at Yarmouth. A shallow depression has appeared near L'Orient this morning, and the general appearance is much less settled than of late.

NOTE: The flawed condition of yesterday's Report was owing to an accident with the lithographic stone.

Subsidiary Notes.

NOTE: The hurried condition of  
Subscription for these Charts payable in  
advance to cover delivery. Delivery by hand  
10/- per quarter, bank post 5/- per quarter.

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

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



# SUMMARY OF WEATHER IN WESTERN EUROPE

from 14<sup>TH</sup> JULY to 20<sup>TH</sup> JULY 1878.

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

In the course of this week the weather has undergone a very marked and favourable change from the comparatively cool and cloudy period of the last week or two, to one of brilliant sunshiny weather, with very high temperatures and no rain. The hottest day of all was Friday, the 19<sup>th</sup>, on which occasion the thermometer rose to 91° in the shade at Nottingham, to 88° in London, and is between 91° and 100° in the west of France. The wind has been mainly W. at the N. stations, and E. in the extreme S., and at times blew fresh, though generally it was light. Towards the close of the week the barometer began to fall generally. Temperature fell in the far N. A shallow depression appeared over the N. of France, some thunderstorms (almost without rain) occurred in the SW. and S. of our Islands, and the weather appeared to be breaking up generally.

## Sunday. 14. JULY.

Weather fine generally, but cloudy over the N. parts of the Kingdom, with slight rain in a few localities, less in the S. and over France. Air somewhat close in London during the day, and heavy clouds visible at times.  
 Temperature has risen a little, but still low generally, the S. and readings exceeding 60° at the extreme S. stations only. The maximum rising above 70° in most parts of Great Britain, and reaching 76° at Brest and Nottingham.  
 Winds, NW in the N., N. in the S. and NE. over France; generally moderate in force, but blowing fresh in a few places, - e.g. Stormway, Donaghadee and Plymouth.  
 Sea moderate, except at Stormway and Donaghadee.  
 Barometer highest (30.25 ins.) in the S. of Ireland, lowest over the Baltic. A secondary depression formed over the S. of Sweden, while the depression noticed off Sicily on the 13<sup>th</sup> has moved SE. to the S. of France. Barometer rising generally in our Islands all day.

## Monday. 15. JULY.

Weather very fine and bright in the Channel and France, fine but very cloudy over the United Kingdom and W. of Norway, with rain at Christiansund.  
 Temperature still inclined upwards except in Scotland and Norway; the maximum over England ranging from 71° to 76°.  
 Wind backing towards W. at the N. stations, and falling light, and variable over our E. coasts, but remaining N. in the Channel, and NE. in France. Light SE. winds felt along our E. coasts in the afternoon.  
 Sea rough in the far N.  
 Barometer beginning to fall somewhat in Scotland, but a further slight rise reported elsewhere. The anticyclone in the SW. spreading E. over England, but some very slight disturbances still noticeable over England.

## Tuesday. 16. JULY.

Weather fine generally, especially in the E. and S., but slight showers of rain felt in the extreme N. of Scotland later in the day.  
 Temperature increasing considerably, the thermometer rising to a maximum of 78° at Nottingham and in London, and 72° in the E. of Scotland during the afternoon.  
 Wind light from W. and WNW. over the greater part of the United Kingdom, and fresh from the same quarter in Denmark, and the W. of Norway, calm in the Channel, and light E. in France.  
 Sea rather rough in the extreme NW.  
 Barometer highest (30.3 ins. and upwards) in the S. and SW. of our Islands, lowest over Russia, and the Gulf of Bothnia, but gradients slight everywhere, and very little change occurring during the day.



Wednesday 17. JULY.

Weather remaining fine bright and summerlike in most places, but still cloudy in the NW. ~~Temperature~~ continuing to increase, especially over France and England, the shaded thermometer rising to between  $80^{\circ}$  and  $83^{\circ}$  over the inland parts of England generally, and to  $86^{\circ}$  at Nottingham. Wind passing towards NW in the N. and moderating a little, while the NE<sup>ly</sup> wind in the S. tends to spread N<sup>ly</sup> over the E. of England. Strong W. to NW winds felt on the E<sup>ly</sup> shores of the North Sea. Sea slight except at coast of the west N<sup>ly</sup> stations. Barometer still highest in Iceland. A depression in the far N. passing E<sup>ly</sup> over Scandinavia. The mercury falling in the S. rising in the N.

Thursday 18. JULY.

Weather remaining fine and bright everywhere in our Islands, but dull and rainy in Scandinavia. ~~Temperature~~ still increasing, the maximum being as high as  $84^{\circ}$  to  $85^{\circ}$  over England,  $88^{\circ}$  at Nottingham and  $100^{\circ}$  at Rochefort. Wind NW<sup>ly</sup> as over N<sup>ly</sup> coasts, N<sup>ly</sup> in the E. and NE<sup>ly</sup> to E<sup>ly</sup> in the S. Strong NW winds still felt in Norway and Denmark. Sea moderate to smooth on our coasts, but rough at Lumburg Head, and on the Danish coast. Barometer falling a little at all but our N<sup>ly</sup> stations. Readings highest in Iceland, and the area of highest pressure inclined to move N<sup>ly</sup>.

Friday 19. JULY.

Weather becoming foggy on our NW. coasts, but remaining dry, and summerlike elsewhere. Rain falling in Norway in the course of the day. ~~Temperature~~ still rising, and reaching  $91^{\circ}$  at Nottingham,  $88^{\circ}$  in London, and  $91^{\circ}$  to  $100^{\circ}$  in the W. of France. (Paris does not report maximum temperatures.) Wind strong to a gale from WNW on the E<sup>ly</sup> shores of the North Sea, light NW<sup>ly</sup> to N<sup>ly</sup> in the N. of our Islands, NE<sup>ly</sup> to E<sup>ly</sup> in the S. Sea high in the Skager Rack, and rough at our west N<sup>ly</sup> stations. Barometer still falling except in the N. readings highest in the W. and NW, but local irregularities in pressure appearing in some places.

Saturday 20. JULY.

Weather less settled. Sky becoming more cloudy in the W. and N. and foggy in the NE. A little more rain in the W. of Norway. Thunderstorms experienced in the SW. and S, but with a singular absence of rain. ~~Temperature~~ still very high, and air oppressive in the S. The maximum again as high as  $90^{\circ}$  at Nottingham, while  $80^{\circ}$  to  $84^{\circ}$  was recorded over other inland parts of England, and  $90^{\circ}$  to  $95^{\circ}$  in some parts of the W. of France. Wind, becoming more variable; a SW. breeze appearing in the SW. of France, and SE<sup>ly</sup> winds over the S. parts of England. Sea very little disturbed. Barometer very uniform over the British Isles, Netherlands, and North Sea, the highest reading of all being  $30.23$  ins. at Yarmouth. A shallow depression appearing over the W. of France and subsequently spreading N<sup>ly</sup>.



# DAILY WEATHER REPORT JULY 21<sup>ST</sup> 1878.

STATIONS.	† YESTERDAY EVENING.						8 A.M. TO DAY.										LAST 24 HOURS.		
	Barometer at 32° F. and Sea Level.	Temp. in shade.	WIND.		Weather.	Reading at 32° F. and Sea Level.	BAROMETER.		SHADE TEMP.			WIND.		Weather.	Sea. (0 to 9.)	SHADE TEMP.		Amount of Rainfall.	
			Direc.	Force. (0 to 13).			Difference from 8 a.m. yesterday.	Dry.	Wet.	Difference from 8 a.m. yesterday.	Direc.	Force. (0 to 13).	Max.			Min.			
Haparanda ...	29.75	52	NE	2	b	29.76	+0.3	53	48	+1	N	4	b	*	59	39	-		
Hernösand ...	29.80	56	L	0	b	29.90	+0.8	59	50	+2	NNW	6	b	*	*	*	-		
Stockholm ...	29.89	57	SE	2	b	29.94	+0.8	60	54	+2	NW	2	b	*	*	*	-		
Visby ...	29.87	60	NNW	4	b	29.94	+1.2	62	59	+4	N	2	b	*	*	*	-		
Christiansund ...	29.97	52	WSW	6	o	30.01	+1.9	52	49	+1	WSW	6	o	4	55	48	0.08		
Skudesnaes ...	30.08	55	WNW	2	n	30.10	+0.6	56	54	+1	WNW	2	c	2	57	55	-		
Oxö (Tjandsand) ...	29.99	66	NW	4	c	30.04	+0.3	60	54	+2	WNW	2	b	2	66	53	-		
Skagen (The Sae) ...	29.95	62	N	5	b	30.01	+0.2	63	58	0	WNW	3	b	2	70	54	-		
Faro ...	30.10	59	N	4	c	30.16	+0.5	62	58	+2	WSW	4	o	*	66	54	-		
Cuxhaven ...	30.16	62	NNW	1	c	30.14	-0.1	66	64	+3	NW	1	b	*	?	57	-		
Sumburgh Head ...	30.07	55	WNW	3	m	30.08	+0.5	53	53	-1	SW	2	f	2	59	50	0.02		
Stornoway ...	30.09	58	N	1	o	30.09	0.0	58	55	-2	N	1	o	0	64	55	0.05		
Thurso ...	30.13	58	L	0	o	30.10	-0.1	60	59	+3	L	0	om	2	62	55	-		
Wick ...	30.13	58	L	0	o	30.09	-0.2	60	58	+2	SE	1	f	0	64	55	-		
Nairn ...	30.12	62	E	1	be	30.11	-0.1	60	58	-2	L	0	cm	0	71	58	-		
Aberdeen ...	30.11	59	E NE	1	m	30.12	-0.1	59	58	-1	E	1	o	1	71	57	0.01		
Leith ...	30.04	78	NW	3	b	30.09	-0.3	57	56	-1	E	1	o	*	83	55	-		
Shields ...	30.06	67	NNE	1	e	30.11	-0.4	56	56	-8	NNE	1	o	2	68	55	-		
Scarborough ...	30.07	73	SSE	3	be	30.09	-0.6	67	63	-5	E	1	b	2	81	64	-		
York ...	30.06	80	S	1	b	30.09	-0.8	69	64	+1	SSE	1	b	*	84	60	-		
Nottingham ...	30.08	82	SSE	3	b	30.09	-1.0	73	66	-2	SSE	3	b	*	90	60	-		
Ardrossan ...	30.09	67	WNW	3	b	30.10	-0.5	60	58	+1	NW	1	om	1	69	55	-		
Greencastle ...	30.13	62	N	2	b	30.11	-0.4	57	56	-3	N	2	om	*	69	54	-		
Donaghadee ...	30.11	62	NNW	3	b	30.11	-0.6	55	54	-5	NNW	4	c	2	65	52	-		
Kingstown ...	30.13	67	E	1	c	30.11	-0.7	61	59	-2	N	3	b	2	68	59	-		
Holyhead ...	30.01	63	N	2	c	30.07	-0.9	62	60	+2	N	3	b	2	67	58	-		
Liverpool (Bidston) ...	20.08	68	WNW	1	b	30.07	-0.7	72	65	+2	SE	1	b	1	77	60	-		
Valencia ...	20.08	72	N	2	a	30.07	-0.4	70	67	+4	N	1	o	2	77	62	-		
Roche's Point... ..	20.11	70	ESE	2	be	30.06	-0.8	67	62	0	N	2	b	c	77	60	-		
Pembroke ...	20.04	73	NNE	3	be	30.01	-1.2	68	65	-3	NE	1	b	0	78	68	-		
Portsmouth ...	20.02	77	SE	3	be	30.01	-1.2	69	65	+2	E	3	b	3	81	61	-		
Scilly ...	20.00	67	L	0	n	29.96	-0.9	64	62	-3	NNE	2	c	2	72	62	0.06		
Plymouth ...	29.99	73	E	5	b	29.98	-2.0	68	65	-2	SSW	2	of	n	77	66	-		
Hurst Castle ...	30.01	76	SE	4	b	29.97	-1.5	71	68	0	E	4	b	4	78	64	-		
Dover ...	30.07	70	E	4	b	30.02	-1.5	67	63	-3	E	3	b	2	74	65	-		
London ...	30.08	74	E	3	b	30.03	-1.4	69	65	-3	E	2	b	*	84	61	-		
Oxford ...	*	*	*	*	*	30.03	-1.3	68	64	-2	NE	1	b	*	81	59	-		
Cambridge ...	20.11	75	SE	1	be	30.06	-1.2	69	64	0	E	1	b	c	84	55	-		
Yarmouth ...	30.15	67	SE	1	b	30.12	-1.1	65	62	0	E	2	b	1	69	61	-		
The Helder. ...	*	*	*	*	*	30.13	-0.8	69	66	+3	NE	1	b	*	*	*	-		
Cape Gris Nez ...	30.05	68	NE	4	b	30.01	-1.5	70	64	0	ENE	2	b	c	79	61	-		
Jersey ...	29.95	74	ENE	3	c	29.98	-0.8	65	64	-7	L	0	o	0	79	63	-		
Brest ...	?	79	SE	4	t	?	?	64	64	-8	ESE	3	o	3	91	63	0.16		
L'Orient ...	29.96	66	SSE	2	m	29.97	+0.1	66	64	-6	N	2	m	1	82	61	-		
Rochefort ...	30.07	73	SW	3	o	30.08	+0.1	66	64	-2	S	2	o	3	95	64	-		
Biarritz ...	30.04	70	NW	2	o	30.01	-0.7	68	64	0	ENE	1	o	3	72	64	-		
Corunna ...	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*		
Brussels ...	*	*	*	*	*	30.04	-1.4	65	60	-1	E	3	o	*	80	59	-		
Charleville ...	*	*	*	*	*	29.94	-1.4	70	*	0	SE	1	b	*	*	*	*		
Paris ...	29.97	83	E	4	o	29.98	-1.0	73	65	+3	SSE	2	b	c	*	*	-		
Lyons ...	*	*	*	*	*	30.03	+0.1	72	*	-3	N	2	c	*	*	*	*		
Toulon ...	29.99	79	N	2	m	30.05	+0.4	73	68	-4	E	3	m	2	84	?	-		

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

	Bar.	Dry.	Wet.	Wind.	Wca.	Sea.		Bar.	Dry.	Wet.	Wind.	Wca.	Sea.		
Skudesnaes ...	30.07	57	65	NW	2	z f	3	Valencia .....	20.10	77	70	NNW	2	be m	2
Thurso .....	30.13	58	57	WNW	2	o	3	Scilly .....	30.01	71	66	ENE	5	b	4
Scarborough ...	30.11	72	66	SSE	2	be	2	London .....	30.12	77	68	SE	3	b	*
Greencastle ...	30.14	65	62	ENE	2	o	*	Rochefort ...	20.07	75	68	SW	3	o	3
Holyhead .....	30.14	64	61	N	3	b	2								

No important change.

## EXPLANATION OF COLUMNS.

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

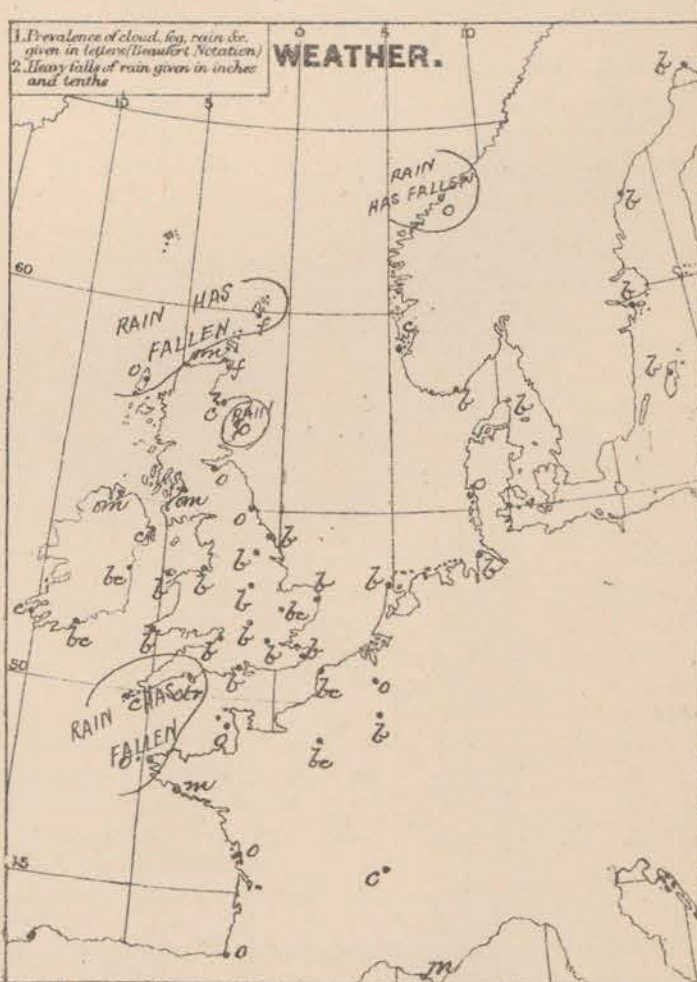
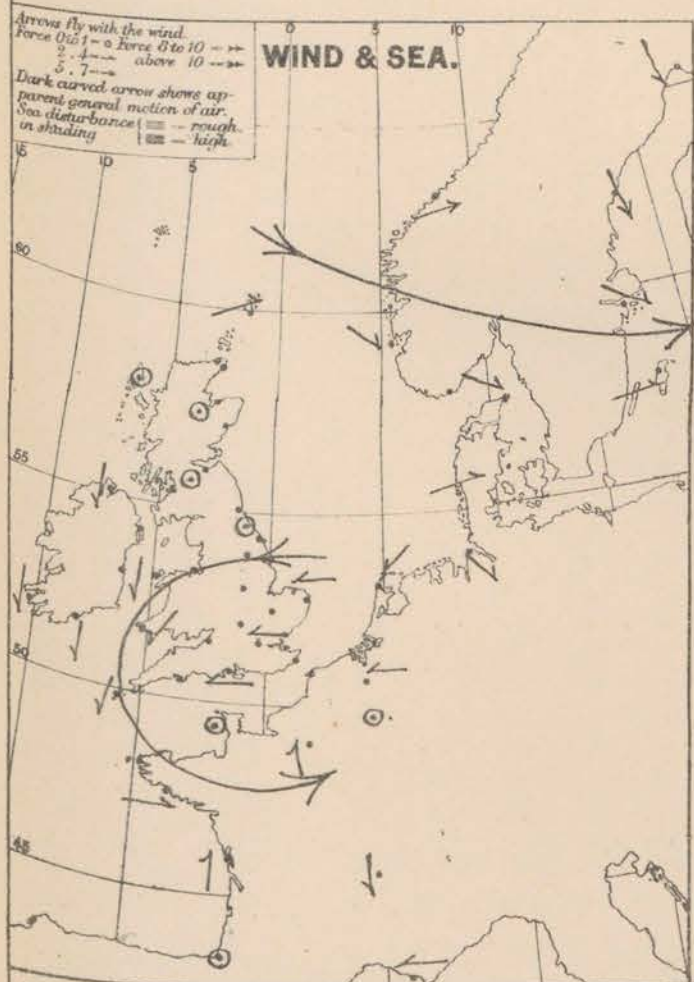
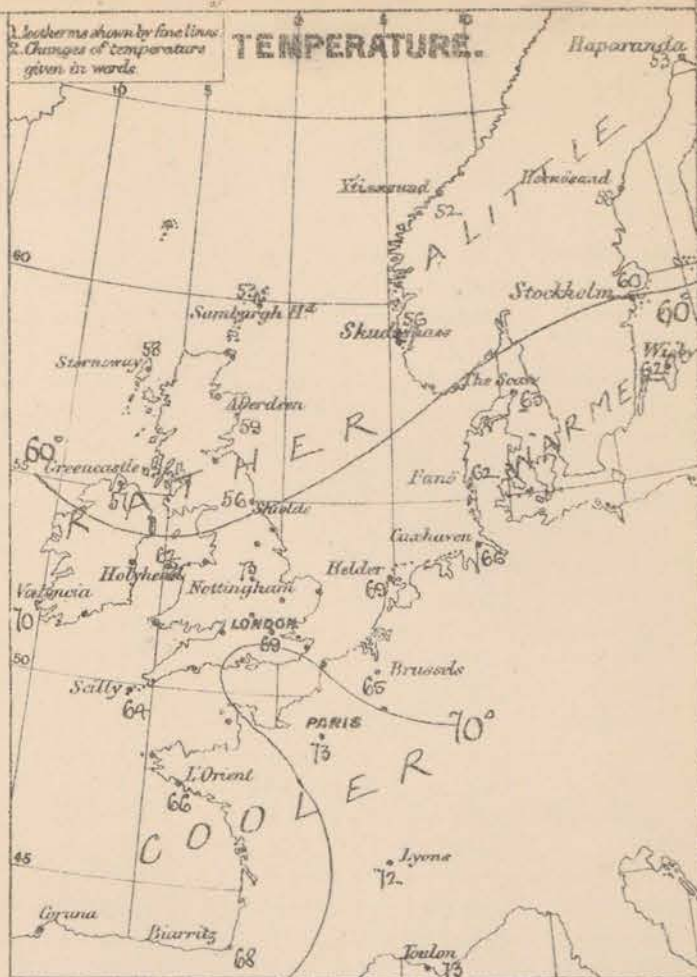
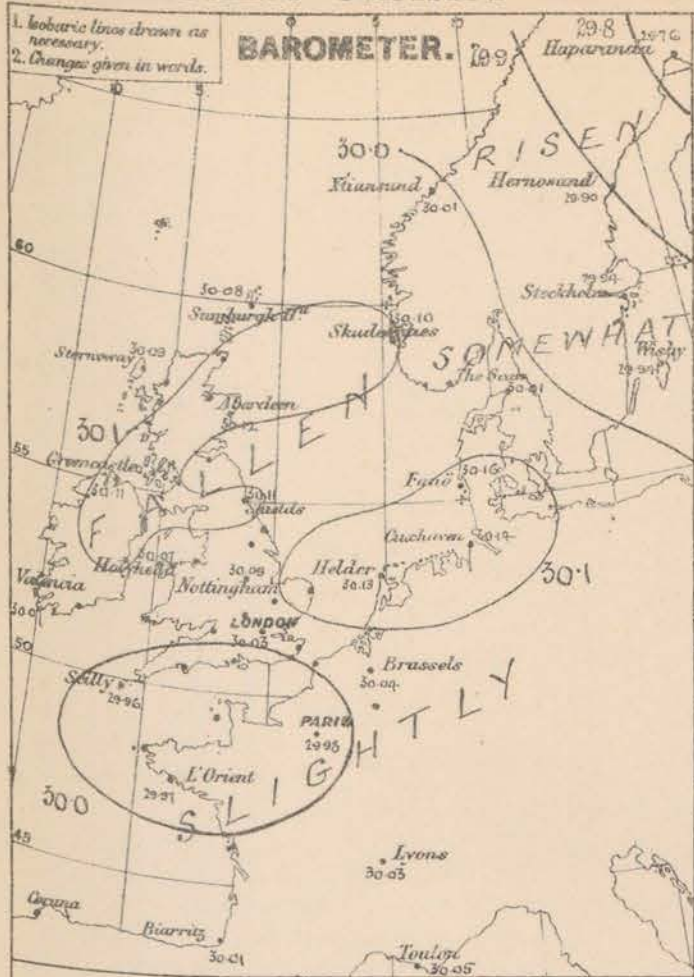
\* AN ASTERISK is inserted in all places for which information is not usually received.

† 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 21<sup>st</sup> July 1878.



REMARKS. Weather of this morning shows comparatively little change. Thunderstorms have occurred on all the coasts of Ireland and England, but the rainfall has been very slight. The sky is much more cloudy in the W. and NW, but elsewhere it is clear and bright. Temperatures is rather lower in most places. The greatest heat in the shade yesterday was 85° in London, 84° at Cambridge and York, while 91° is reported from Nottingham. Winds is E<sup>ly</sup> to NE<sup>ly</sup> over England, N<sup>ly</sup> in Ireland, and is light in force; in France the wind is very variable, while in Scotland calms prevail. On the E<sup>ly</sup> shores of the North Sea the wind is fresh from the NW<sup>ly</sup>. Sea is very little disturbed. Barometrical indications. The barometer has fallen a little over our Islands, but has risen slightly in Scandinavia. The areas of high pressure exist this morning, one over the N. of our Islands, the other over the E. of England and the Netherlands, while a well marked shallow depression lies over the S. of England, and the N. of France.

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

R. H. SCOTT.  
Secretary



# DAILY WEATHER REPORT JULY 22<sup>nd</sup> 1878.

STATIONS.	↑ YESTERDAY EVENING.						3 A.M. TO DAY										PART 24 HOUR.		
	Barometer at 32° F. and Sea Level.	Temp. in shade.	WIND.		Weather.	Barometre. Reading at 32° F. and Sea Level.	Difference from 3 a.m. yesterday.	SHADE TEMP.			WIND.		Weather.	Sea. (0 to 9.)	SHADE TEMP.		Amount of Rainfall.		
			Direc.	Force. (0 to 12).				Dry.	Wet.	Difference from 3 a.m. yesterday.	Direc.	Force. (0 to 12).			Max.	Min.			
Haparanda ...	29.75	56	W	2	b	29.60	-16	59	55	+6	S	2	b	*	64	43	-		
Hernösand ...	29.92	59	W	4	b	29.73	-17	57	54	-2	W	0	c	*	*	*	0.04		
Stockholm ...	29.98	57	SE	4	m	29.91	-0.3	64	60	+4	WSW	2	b	*	*	*	-		
Wisby ...	29.97	62	ESE	4	b	29.93	-0.1	67	59	+5	WSW	6	b	*	*	*	-		
Christiansund ...	29.93	55	WNW	5	r	29.86	-1.5	53	51	+1	W	6	c	3	57	48	0.47		
Skudesnaes ...	30.09	55	WNW	4	c	30.08	-0.2	59	57	+3	WNW	2	o	2	59	55	-		
Oxö (Xriansand)	29.99	63	WSW	4	b	30.00	-0.4	58	54	-2	WSW	5	b	3	66	54	-		
Skagen (The Seaw)	30.04	58	WSW	2	b	29.97	-0.4	60	57	-3	W	6	b	?	73	?	-		
Fanö ...	30.13	58	WN	2	c	30.11	-0.5	59	58	-3	WN	4	o	*	64	55	-		
Cuxhaven ...	30.22	62	N	3	b	30.12	-0.2	68	65	+2	E	1	b	*	?	59.1	-		
Sumburgh Head	30.07	54	W	2	c	30.09	+0.1	55	54	+2	W	4	o	3	59	51	0.01		
Stornoway	30.09	62	Z	0	b	30.14	+0.5	58	55	0	Z	0	c	0	64	51	-		
Thurso ...	30.12	61	WN	1	b	30.17	+0.7	57	55	-3	WN	1	o	2	67	50	-		
Wick ...	30.01	59	WN	1	b	30.17	+0.8	57	55	-3	SW	1	o	0	63	47	-		
Nairn ...	30.08	66	NE	2	b	30.18	+0.7	57	54	-3	Z	0	o	0	72	50	-		
Aberdeen ...	30.10	62	E	1	b	30.17	+0.5	58	57	-1	S	1	o	0	65	56	-		
Leith ...	30.06	61	ENE	1	b	30.15	+0.6	56	56	-1	ENE	2	d	*	67	55	-		
Shields ...	30.10	59	ENE	1	o	30.16	+0.5	58	58	+2	NNE	1	om	2	62	55	-		
Scarborough	30.09	62	SSE	2	b	30.15	+0.6	60	59	-7	N	2	o	2	63	56	-		
York ...	30.07	76	SE	2	b	30.13	+0.4	65	62	-4	N	1	o	*	83	53	-		
Nottingham ...	30.03	80	ENE	4	b	30.09	0.0	67	63	-6	N	5	b	*	89	57	-		
Ardrossan ...	30.06	69	WN	3	b	30.15	+0.5	59	57	-1	NNE	3	om	2	70	53	-		
Greencastle ...	30.15	61	N	2	b	30.13	+0.2	60	57	+3	N	2	b	*	65	51	-		
Donaghadee ...	30.10	60	WN	4	b	30.13	+0.2	58	57	+3	NNE	2	g	1	62	55	-		
Kingstown ...	30.09	66	WN	2	b	30.12	+0.1	61	59	0	N	3	b	3	66	60	-		
Holyhead ...	30.06	64	N	3	b	30.08	+0.1	67	65	+5	E	2	b	1	68	59	-		
Liverpool (Bidston)	30.06	74	N	1	b	30.10	+0.3	71	66	-1	ENE	1	b	1	84	60	-		
Valencia ...	30.05	73	WNW	2	b	30.08	+0.1	69	65	-1	WSW	1	bm	1	77	65	-		
Roche's Point...	30.11	71	E	2	b	30.08	+0.2	67	62	0	N	1	b	2	78	62	-		
Pembroke ...	29.99	70	N	3	b	30.03	+0.2	68	63	0	ENE	1	b	1	75	63	-		
Portishead ...	29.95	80	ESE	4	b	30.02	+0.1	65	63	-4	NNE	5	o	4	85	59	-		
Scilly ...	29.98	66	WNW	2	o	30.00	+0.4	68	67	+5	SE	1	cm	1	70	62	-		
Plymouth ...	29.95	73	E	2	b	29.98	0.0	69	66	+1	N	1	o	*	77	60	0.16		
Hurst Castle ...	29.97	71	SSE	2	b	29.97	0.0	68	67	+3	ENE	3	cy	2	79	63	-		
Dover ...	29.97	71	ENE	4	b	29.97	-0.5	73	66	+6	E	2	b	1	74	66	-		
London ...	20.00	74	E	3	b	29.99	-0.4	72	67	+3	ENE	3	c	*	86	61	-		
Oxford ...	*	*	*	*	*	30.02	-0.1	65	62	-3	NE	3	o	*	81	60	-		
Cambridge ...	30.00	77	SE	1	b	30.01	-0.5	68	65	-1	ENE	1	b	*	84	55	-		
Yarmouth ...	30.07	66	ENE	3	b	30.06	-0.6	65	63	0	ENE	4	b	3	69	61	-		
The Helder ...	*	*	*	*	*	30.07	-0.6	64	64	-5	NE	1	f	*	*	*	-		
Cape Gris Nez	29.98	68	NE	2	b	29.98	-0.3	72	68	+2	S	1	b	0	75	64	-		
Jersey ...	29.99	69	ENE	1	c	30.00	+0.2	64	64	-1	N	2	mo	2	73	62	0.24		
Brest ...	30.05	?	S	2	o	?	?	64	63	0	SE	1	m	3	73	61	-		
L'Orient ...	29.98	66	SW	2	b	30.03	+0.6	66	64	0	ESE	1	b	1	77	57	-		
Rochefort ...	30.07	75	WNW	2	b	30.08	0.0	66	64	0	E	1	o	3	88	61	-		
Biarritz ...	29.98	72	NNE	3	o	30.00	-0.1	70	66	+2	WNW	1	c	3	77	66	-		
Corunna ...	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*		
Brussels ...	*	*	*	*	*	29.99	-0.5	77	67	+12	S	1	o	*	83	65	-		
Charleville ...	*	*	*	*	*	29.98	+0.4	69	*	-1	S	1	o	*	*	*	*		
Paris ...	29.95	80	SW	3	b	30.02	+0.4	70	64	-3	S	2	b	*	*	*	?		
Lyons ...	*	*	*	*	*	30.03	0.0	75	*	+3	NE	1	b	*	*	*	*		
Toulon ...	30.04	73	E	3	b	30.07	+0.2	74	66	+8	E	4	m	4	81	72	-		

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

Bar.	Dry.	Wet.	Wind.	Wes.	Sea.	Bar.	Dry.	Wet.	Wind.	Wes.	Sea.
Skudesnaes	30.10	59	55	WNW	4	c	2	Valencia			
Thurso								Scilly			
Scarborough								London			*
Greencastle						*		Rochefort	30.07	73	66
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. in Paris and France.

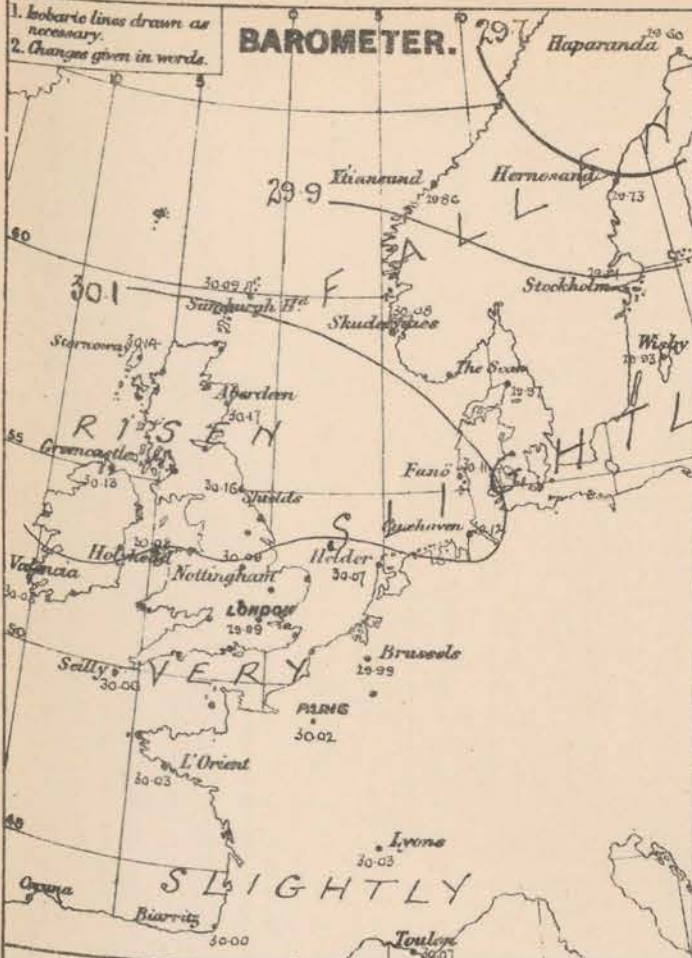
N.—The wind is said to "veer" when its direction changes with the sun, and to "back" when it shifts in the opposite direction.



# WEATHER CHARTS for 8 a.m. on Monday 22 July 1878.

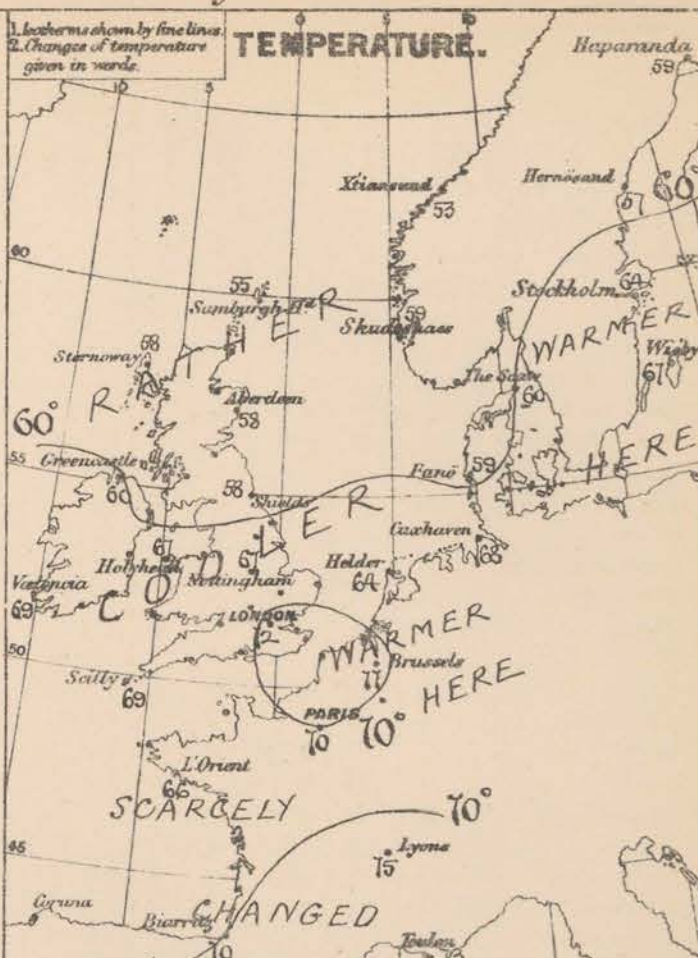
1. Isobars lines drawn as necessary.
2. Changes given in words.

## BAROMETER.



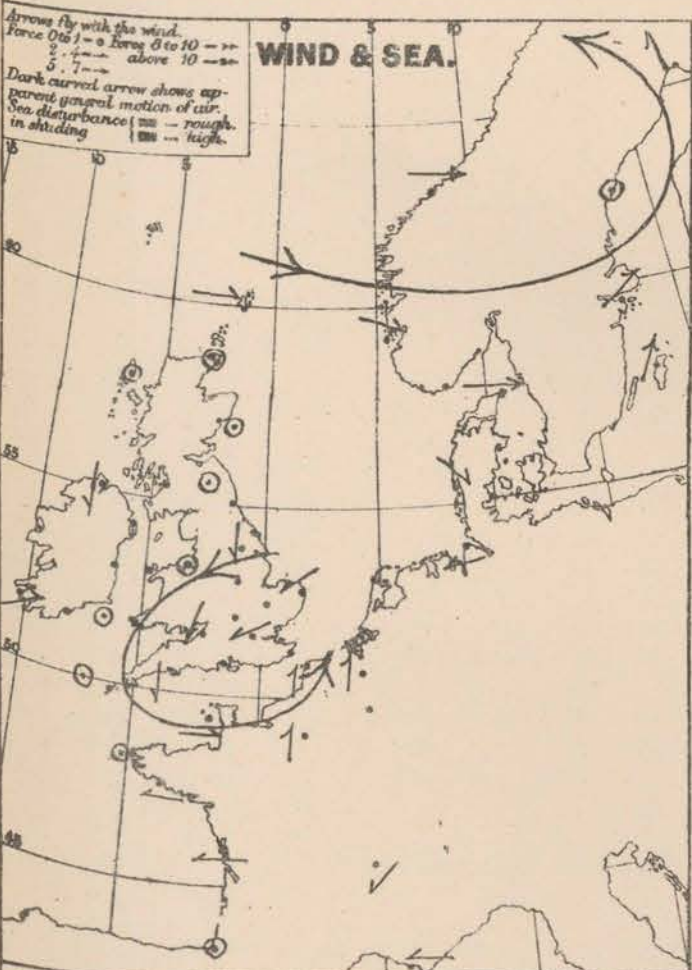
1. Isotherms shown by fine lines.
2. Changes of temperature given in words.

## TEMPERATURE.



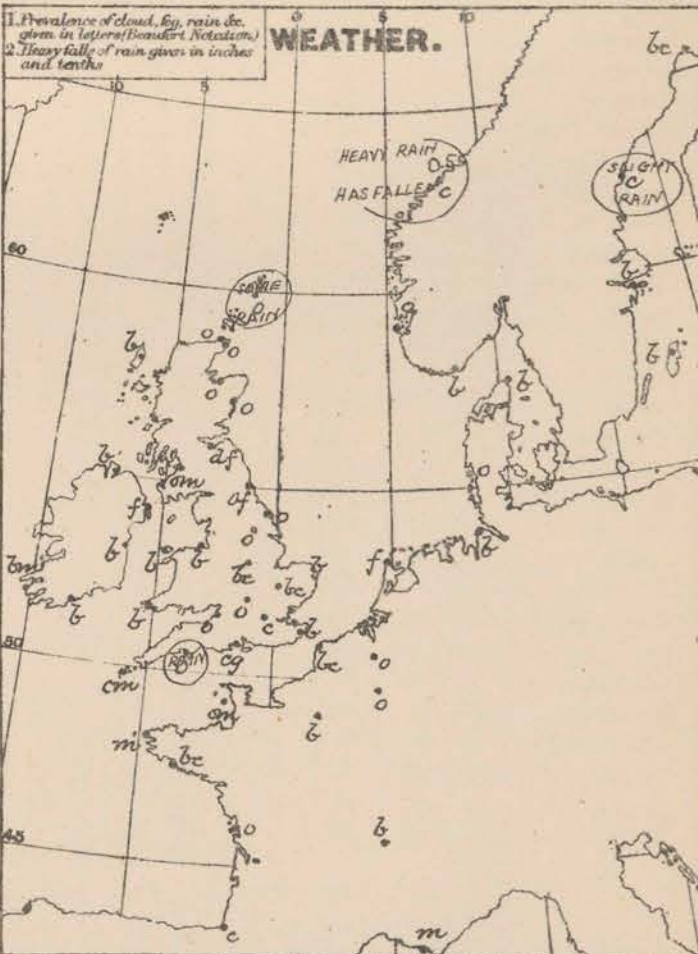
1. Arrows fly with the wind. Force 0 to 10 - - - - - above 10 - - - - -
2. Dark curved arrow shows apparent general motion of air. Sea disturbances ( - - - - - ) rough in shading ( - - - - - ) high.

## WIND & SEA.



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

## WEATHER.



**REMARKS** Weather though still fine and hot in many places, and clear in Ireland is much more cloudy elsewhere than of late, haze is reported in many places. fog on our NE. coast, and drizzling rain at Louth. In London the sky is becoming covered with a thick canopy of low cumulus clouds. Thunderstorms have occurred at Brussels, Plymouth and Valencia and lightning has been seen at Rock Point. Temperature is still high in the E. of France, in Belgium, and in several of the more S. parts of England, but varies from 55° to 58° in Scotland, and the NE. of England. The maximum values for yesterday varied greatly in different localities, the highest reported over England varying from 81° to 89°, while at Shields and Donaghadee the highest point reached was only 62°, at Scarborough 68°, and at Plymouth 69°. Winds very light in most places, E. to NE. over England, but W. at Jersey and S. in Belgium and the NE. of France. In Scotland calm prevails, while in Norway the wind is fresh from W. Sea is smooth or slight except off the W. of Norway.

Barometrical indications. The barometer has moved very slightly indeed over our Islands, since yesterday, but has fallen at the Scandinavian stations. An area of high pressure lies over the N. of our Islands and the North Sea, a well marked depression over the N. of Sweden, and a long shallow depression over the Channel.

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

R. H. SCOTT.  
Secretary.



# DAILY WEATHER REPORT

JULY 23<sup>RD</sup>

1878.

† YESTERDAY EVENING.										8 A.M. TO DAY.										LAST 24 HOURS.		
STATIONS.	Barometer at 29° 32' and Sea Level.	Temp. in shade.	WIND.		Weather.	BAROMETER.		THERM.			WIND.		Weather.	Sea. (0 to 9.)	THERM.			Amount of Rainfall.				
			Dir.	Force. (0 to 12.)		Reading at 32° 32' 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	29.38	49	N	4	b	29.45	-1.5	51	49	-8	N	6	0	*	59	36	0.12					
Hernösand	29.62	57	N	3	b	29.58	-1.5	56	49	-1	NNW	9	0	*	*	*	-					
Stockholm	29.70	57	W	0	b	29.73	-1.8	51	46	-13	NNW	7	0	*	*	*	-					
Wisby	29.74	65	NNW	8	c	29.77	-1.6	57	49	-10	N	8	0	*	*	*	-					
Christiansund	30.04	49	NW	7	h	30.13	+2.7	50	47	-3	NNW	5	0	5	50	43	0.12					
Skudesnaes	30.10	53	NNW	6	b	30.08	-0.3	57	50	-2	NNW	4	0	2	61	52	-					
Oxö (Klansand)	29.97	67	NW	4	c	30.02	+0.3	60	51	+2	NNW	2	0	2	72	55	-					
Skagen (The Sea)	29.90	60	N	6	b	29.97	-0.0	59	50	-1	NNE	4	0	4	72	55	-					
Fanö	30.03	58	NW	2	b	30.01	-1.0	64	58	+5	NNW	4	0	*	55	55	-					
Cuxhaven	30.15	68	N	3	m	30.02	-1.0	64	62	-4	NNE	3	0	*	70	59	-					
Samburgh Head	30.06	53	?	4	m	30.21	+1.2	54	53	-1	SE	4	0	4	57	50	0.06					
Stornoway	30.11	60	E	3	b	29.95	-1.9	62	60	+4	SSE	2	0	1	62	50	-					
Thurso	30.15	62	ESE	1	c	30.05	-1.2	57	56	0	ESE	2	0	2	63	54	-					
Wick	30.12	59	SE	1	f	30.05	-1.2	57	55	0	S	2	0	1	66	54	-					
Nairn	30.14	60	NE	1	0	30.05	-1.3	57	55	0	N	0	0	0	64	56	-					
Abordeen	30.14	60	S	3	b	30.10	-0.7	57	55	-1	S	3	0	1	65	56	-					
Leith	30.10	60	ENE	3	b	30.05	-1.0	57	56	+1	ENE	1	0	*	64	55	-					
Shields	30.13	61	ENE	1	0	30.10	-0.6	58	57	0	E	1	0	1	63	56	-					
Scarborough	30.13	61	NE	2	0	30.09	-0.6	57	56	-3	E	1	0	2	63	57	-					
York	30.11	68	ENE	2	b	30.09	-0.4	59	56	-6	NE	1	0	*	80	57	-					
Nottingham	30.08	71	NE	4	b	30.05	-0.4	60	57	-7	NE	4	0	*	82	57	-					
Ardrossan	30.06	73	NNE	1	m	30.02	-1.3	61	59	+2	NE	3	0	1	79	58	-					
Greencastle	30.07	68	NNE	2	b	29.94	-1.9	70	67	+10	S	2	0	*	70	55	-					
Donaghadee	30.07	64	NNE	3	b	30.01	-1.2	62	60	+4	E	4	0	2	66	54	-					
Kingstown	30.09	68	NW	3	b	29.98	-1.4	64	62	+3	SE	2	0	2	68	60	-					
Holyhead	30.05	69	NNE	2	b	29.99	-0.9	67	63	0	E	1	0	1	78	62	-					
Liverpool (Bidston)	30.03	77	ENE	1	b	30.10	-0.0	62	59	-9	E	1	0	1	83	60	-					
Valencia	30.03	78	NNW	1	b	29.94	-1.4	64	63	-5	NNW	1	0	2	80	59	-					
Roche's Point	30.06	76	N	0	b	29.95	-1.3	68	63	+1	ESE	3	0	3	80	62	-					
Pembroke	30.02	67	SE	1	c	29.96	-0.7	65	63	-3	SE	1	0	1	79	64	0.02					
Portishead	29.98	74	NNE	2	c	29.98	-0.4	62	61	-3	NNE	4	0	4	80	59	0.10					
Seilly	30.01	68	NNW	2	b	29.95	-0.5	67	66	-2	N	0	0	1	72	63	-					
Plymouth	29.97	67	NE	1	c	29.94	-0.4	66	64	-3	ENE	2	0	*	76	64	0.27					
Hurst Castle	29.96	70	SSE	3	b	29.98	+0.1	68	66	0	E	3	0	2	76	64	0.05					
Dover	29.99	72	NNW	2	b	29.98	+0.1	63	62	-10	NW	3	0	2	74	62	0.02					
London	30.00	73	E	4	c	30.01	+0.2	62	61	-10	E	1	0	*	83	62	-					
Oxford	*	*	*	*	*	30.00	-0.2	60	59	-5	ENE	1	0	*	79	58	0.03					
Cambridge	30.00	76	E	1	c	30.04	+0.3	60	60	-8	N	0	0	*	80	58	0.69					
Yarmouth	30.06	63	NE	4	b	30.03	-0.3	60	59	-5	ENE	3	0	3	66	58	-					
The Helder	*	*	*	*	*	30.00	-0.7	65	63	+1	NE	2	0	*	*	*	-					
Cape Gris Nez	30.00	64	E	2	h	30.00	+0.2	63	63	-9	NE	2	0	2	75	59	0.12					
Jersey	30.00	63	N	0	f	30.00	0.0	63	63	-1	SW	1	0	1	66	60	0.33					
Brest	30.09	73	NW	2	m	?	?	63	61	-1	N	2	0	3	73	57	-					
L'Orient	30.01	68	N	2	c	30.01	-0.2	66	64	0	N	1	0	1	79	61	-					
Rochefort	30.07	73	NW	3	0	30.08	0.0	68	66	+2	SE	2	0	3	?	59	-					
Biarritz	30.04	72	SW	2	b	30.08	+0.8	68	66	-2	NNW	4	0	3	73	66	0.08					
Corunna	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*					
Brussels	*	*	*	*	*	29.94	-0.5	73	67	-4	E	1	0	*	84	65	-					
Charleville	*	*	*	*	*	29.93	-0.5	68	*	-1	SE	1	0	*	*	*	-					
Paris	29.98	80	SW	1	b	29.97	-0.5	74	65	-4	N	1	0	*	*	*	0.04					
Lyons	*	*	*	*	*	30.00	-0.3	77	*	+2	S	2	0	*	*	*	-					
Toulon	30.02	75	E	2	b	30.00	-0.7	73	64	-1	E	4	0	3	81	60	-					

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

	Bar.	Dry.	Wet.	Wind.	Wes.	Sea.		Bar.	Dry.	Wet.	Wind.	Wes.	Sea.	
Skudesnaes ...	30.09	59	56	ENE	4	0	2	Valencia .....	30.06	78	70	NW	1	bm 2
Thurso .....	30.17	62	58	NNE	2	0	3	Scilly .....	30.02	71	68	2	0	bm 1
Scarborough ...	30.15	61	60	E	1	0	2	London .....	29.99	74	69	E	2	c "
Greencastle ...	30.11	69	61	SE	2	0	*	Roche fort ...	30.06	73	68	NW	5	c 3
Holyhead .....	30.08	69	65	NNE	3	0	3							

No important change, beyond an increase of cloud in London, with occasional spots of rain.

### EXPLANATION OF COLUMNS.

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

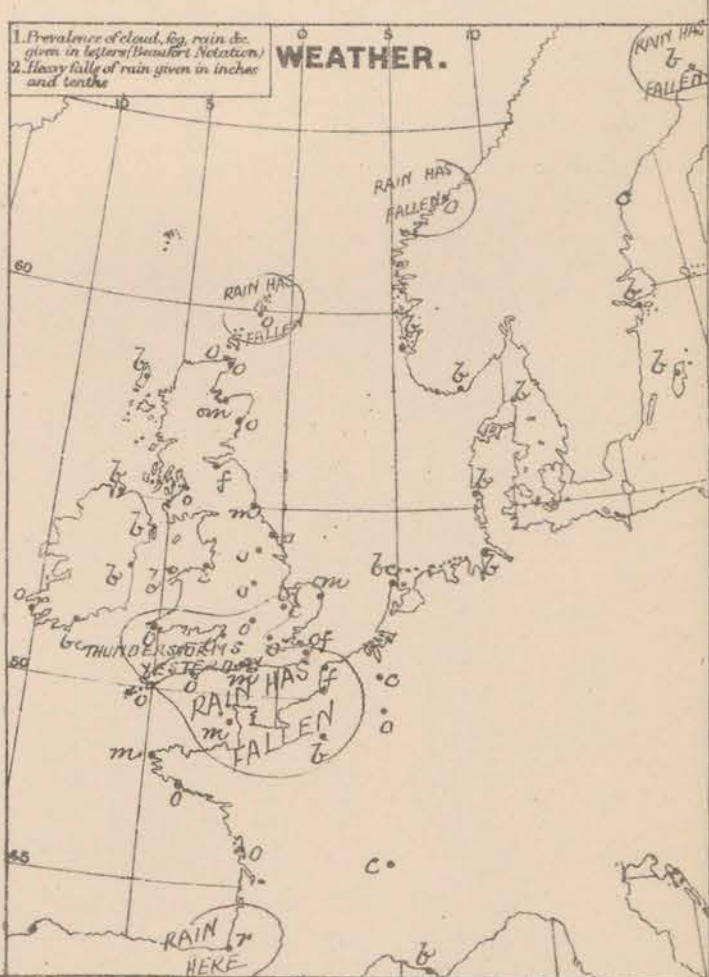
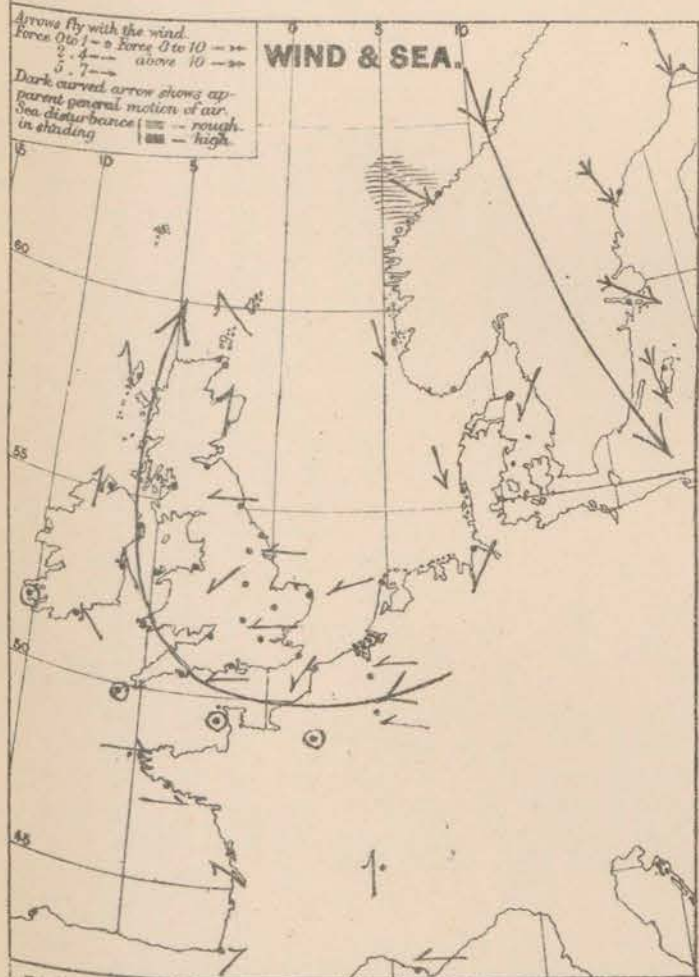
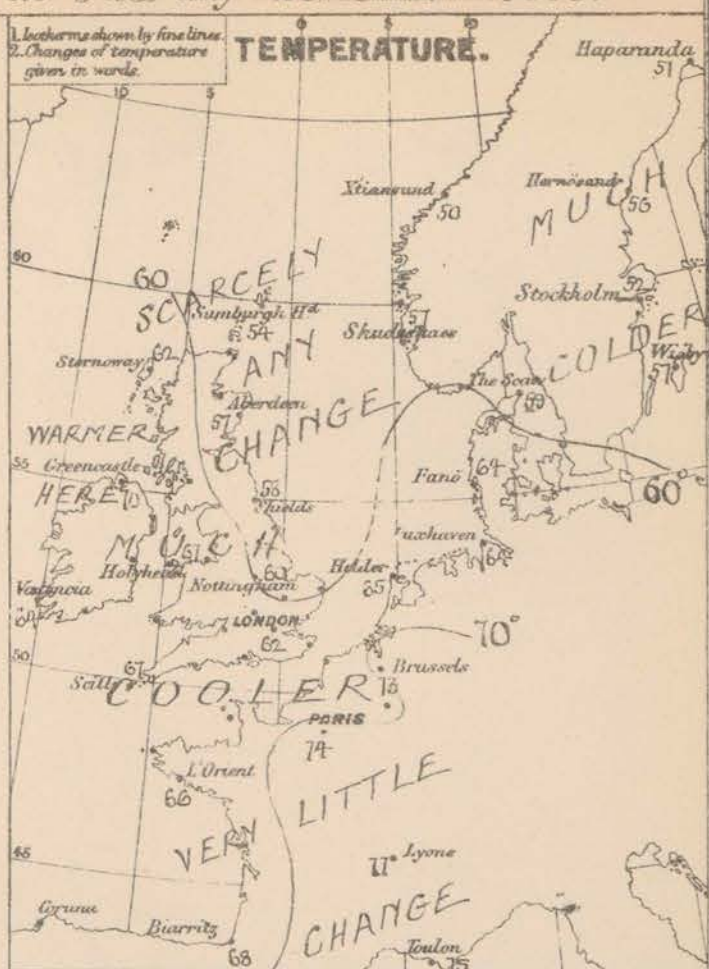
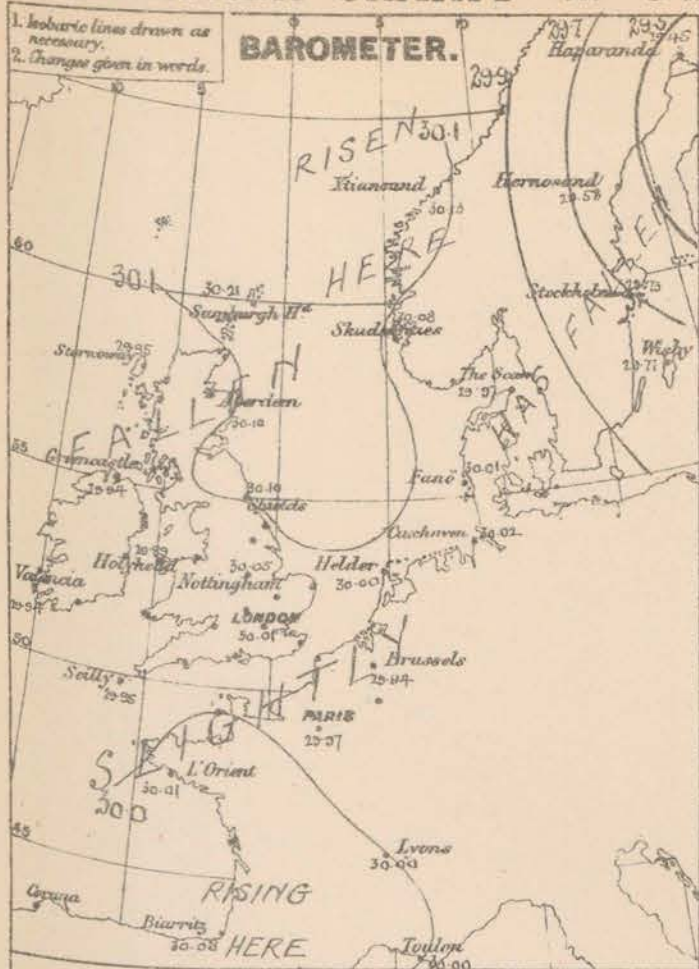
\* AN ASTERISK is inserted in all places for which information is not usually received.

† The evening observations are taken at 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 *Tues-day 23.<sup>RD</sup> JULY 1878.*



REMARKS. Weather over W<sup>e</sup> Europe is in a very changeable unsettled state. In Ireland, and also on the E<sup>e</sup> shores of the North Sea the sky is generally clear, while over Great Britain and France it is overcast, with haze and fog in many places. Thunderstorms have occurred generally over the S and SE of England, and in some places the rainfall has been rather heavy (0.7 in at Cambridge). Temperature has risen over the N. of Ireland, but has given way over England, and also at several of the Baltic ports. London is 10° colder than at Paris yesterday. At Paris, however, the thermometer is still high (73°). The greatest heat recorded in the shade yesterday was from 80° to 83° over England. Wind is light over coasts and in France. It is chiefly W<sup>ly</sup> in the N<sup>e</sup> parts of France, NE<sup>ly</sup> to E<sup>ly</sup> over England, SE<sup>ly</sup> in Ireland, and the N. of Scotland. On the E<sup>e</sup> shores of the North Sea, however, it is NW<sup>ly</sup> and blows a stiff gale from that quarter in the Gulf of Bothnia. Sea is smooth on our coasts, rather rough at Christiansund. Barometrical indications. The barometer has risen rather briskly in the Shetlands and W. of Norway. Two areas of high pressure are shown, one near the Shetlands, the other over the SW part of France. Local irregularities in pressure are noticeable in many places, indicating unsettled thunder weather.

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

R. H. SCOTT.  
Secretary.

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116, Victoria Street, Westminster, S. W.

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



# DAILY WEATHER REPORT JULY 24<sup>TH</sup> 1878.

STATIONS.	† YESTERDAY EVENING.						8 A.M. TO DAY.										PAST 24 HOURS.		
	Barometer at 32° F. and Sea Level.	Temp. in shade.	WIND.		Weather.	Barometer. Reading at 32° F. and Sea Level.	SHADE TEMP.			WIND.		Weather.	Sea. (0 to 9.)	SHADE TEMP.		Amount of Rainfall.			
			Direc.	Force. (0 to 12).			Dry.	Wet.	Difference from 8 a.m. yesterday.	Direc.	Force. (0 to 12).			Max.	Min.				
Haparanda ...	29.69	49	N	6	0	29.73	+2.8	48	43	-3	N	8	0	*	57	37	-		
Hernösand ...	29.78	56	N NW	6	b	29.85	+2.7	52	44	-4	N	8	0	*	*	*	-		
Stockholm ...	29.76	52	N NW	4	b	29.79	+0.6	54	49	+3	N NW	6	0	*	*	*	0.04		
Wibby ...	29.77	53	N NW	6	b	29.79	+0.2	57	50	0	N	8	0	*	*	*	-		
Christiansund ...	30.11	50	NE	4	b	29.98	-1.5	53	45	+3	E	4	0	3	54	41	-		
Skudesnaes ...	29.91	53	NW	6	b	29.91	-1.7	59	55	+2	SSE	2	0	2	59	?	-		
Oxö (Xtiansand)	29.98	62	SW	2	b	29.97	-0.6	59	52	-1	E NE	6	0	3	66	52	-		
Skagen (The Seaw)	29.93	60	N NW	4	b	29.95	-0.2	57	50	-2	E NE	3	0	3	77	52	-		
Fanö ...	29.92	61	NW	4	b	29.85	-1.6	64	58	0	NE	4	0	*	70	50	-		
Cuxhaven ...	30.00	65	N	2	b	29.87	-1.5	53	61	-1	E	2	0	*	53	54	-		
Sumburgh Head	30.01	55	SE	4	b	29.86	-1.35	56	55	+2	E	4	0	4	58	51	-		
Stornoway	29.81	68	L	0	mb	29.67	-1.28	65	63	+3	L	0	0	0	69	57	-		
Thurso ...	29.93	60	ESE	3	b	29.79	-1.26	57	56	0	SE	3	0	2	66	55	-		
Wick ...	29.93	58	SE	4	0	29.79	-1.26	56	55	-1	SE	2	0	3	63	54	-		
Nairn ...	29.88	64	L	0	b	29.76	-1.29	58	55	+1	L	0	0	0	65	52	-		
Aberdeen ...	29.97	59	S	3	0	29.82	-1.28	59	56	+2	SSE	2	0	1	62	55	-		
Leith ...	29.89	66	NE	3	b	29.75	-1.30	59	57	+2	E	3	0	*	64	55	-		
Shielda ...	29.97	59	SE	2	0	29.80	-1.30	60	58	+2	SE	2	0	2	61	57	-		
Scarborough	29.97	53	ESE	2	0	29.80	-1.29	63	60	+6	SE	1	0	1	63	57	-		
York ...	29.95	63	E	1	0	29.80	-1.29	59	58	0	E	1	0	*	63	55	0.05		
Nottingham ...	29.94	65	NE	3	0	29.77	-1.28	60	60	0	L	0	0	*	70	58	0.02		
Ardrossan ...	29.83	74	NE	1	b	29.73	-1.29	63	60	+2	ENE	2	0	1	78	59	0.03		
Greencastle ...	29.81	72	SE	3	0	29.66	-1.28	64	62	-6	S	2	0	*	80	61	-		
Donaghadee ...	29.84	64	SSE	1	bc	29.71	-1.30	58	58	-4	SE	2	0	1	67	57	0.48		
Kingstown ...	29.83	69	SE	4	bc	29.73	-1.25	60	58	-4	N	5	0	4	70	60	0.01		
Holyhead ...	29.87	70	ENE	1	b	29.71	-1.27	68	65	+1	S	1	0	0	76	65	0.01		
Liverpool (Bidston)	29.89	66	SE	2	c	29.73	-1.37	62	61	0	SE	1	0	1	72	59	0.04		
Valencia ...	29.81	61	N NW	4	N	29.85	-0.9	62	58	-2	N NW	3	0	4	67	56	0.03		
Roche's Point...	29.84	68	NE	4	N	29.79	-1.16	62	58	-6	NW	4	0	3	74	58	0.11		
Pembroke ...	29.84	68	SE	1	bc	29.72	-1.24	60	59	-5	NW	1	0	1	70	60	0.02		
Portishead	29.86	68	SSW	3	c	29.73	-1.25	64	63	+2	S	1	0	2	74	60	0.81		
Seilly ...	29.89	65	WSW	4	0	29.82	-1.13	64	60	-3	N NW	6	0	5	72	60	0.57		
Plymouth ...	29.87	67	S	2	bc	29.76	-1.18	65	63	-1	N	2	0	*	69	63	0.01		
Hurst Castle ...	29.92	65	SW	1	m	29.77	-1.21	64	64	-4	SW	2	0	2	69	62	-		
Dover ...	29.91	66	N	3	c	29.80	-1.18	62	61	-1	SW	2	0	1	71	62	-		
London ...	29.91	72	ESE	1	0	29.78	-1.23	66	63	+4	SSE	2	0	*	76	61	-		
Oxford ...	*	*	*	*	*	29.76	-1.44	65	63	+5	S	1	0	*	72	60	-		
Cambridge	29.93	65	N NE	1	0	29.77	-1.27	62	61	+2	L	0	0	*	65	57	-		
Yarmouth	29.94	61	NE	3	bc	29.79	-1.24	62	60	+2	E	2	0	2	64	58	0.01		
The Helder ...	*	*	*	*	*	29.78	-1.22	65	61	0	NE	1	0	*	*	*	-		
Cape Gris Nez	29.93	63	NE	3	f	29.82	-1.18	63	63	0	WSW	1	0	0	?	59	-		
Jersey ...	29.96	64	N	2	0	29.83	-1.17	62	61	-1	S	2	0	2	68	61	0.06		
Brest ...	30.02	70	WSW	2	m	29.92	?	61	61	-2	NW	3	0	3	?	59	0.12		
L'Orient ...	29.99	66	N NW	3	0	29.86	-1.15	64	63	-2	NW	3	0	2	?	61	0.43		
Rochefort ...	30.10	72	NW	4	c	30.00	-0.8	68	64	0	N	4	0	3	?	61	-		
Biarritz ...	30.10	72	WSW	5	0	29.03	-1.05	68	64	0	SW	2	0	3	73	64	0.04		
Corunna ...	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*		
Brussels ...	*	*	*	*	*	29.78	-1.16	65	64	-3	WSW	1	0	*	84	64	0.28		
Charleville ...	*	*	*	*	*	29.78	-1.15	65	*	-3	N NW	1	0	*	*	*	*		
Paris ...	29.89	77	NW	1	bc	29.84	-1.13	66	63	-8	N	3	0	*	*	*	-		
Lyons ...	*	*	*	*	*	29.94	-1.06	75	*	-2	NW	2	0	*	*	*	*		
Toulon ...	29.87	81	L	0	b	29.86	-1.14	72	64	-1	NW	6	0	6	82	?	-		

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

	Bar.	Dry.	Wet.	Wind.	Wes.	Sea.		Bar.	Dry.	Wet.	Wind.	Wes.	Sea.			
Skudesnaes ...	29.89	58	52	NW	7	b	4	Valencia .....	29.86	65	63	SW	3	0	3	
Thurso .....	29.99	65	63	ESE	2	bc	3	Scilly .....	29.93	68	66	SW	2	0	m	1
Scarborough ...	30.03	59	57	E	2	0	2	London .....	29.96	69	65	ESE	1	c	*	
Greencastle ...	29.87	76	66	SE	2	b	*	Rochefort ...	30.10	77	68	N	4	bc	3	
Holyhead .....	29.94	73	68	NNW	1	b	0									

The barometer is falling slowly in Ireland accompanied by light S. to S.E. winds

## 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.

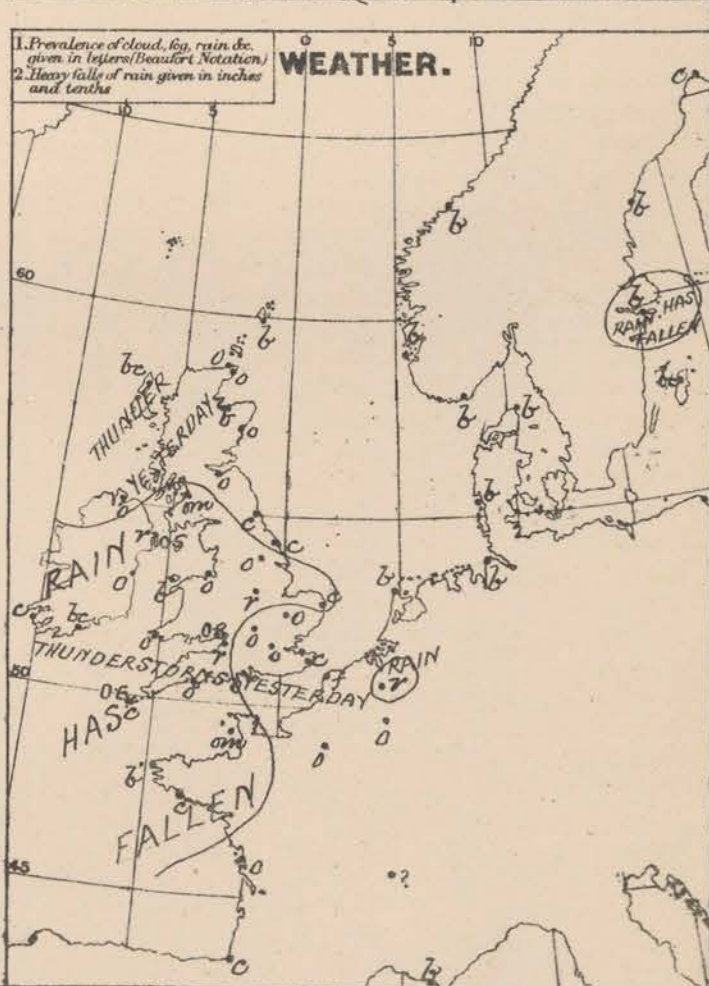
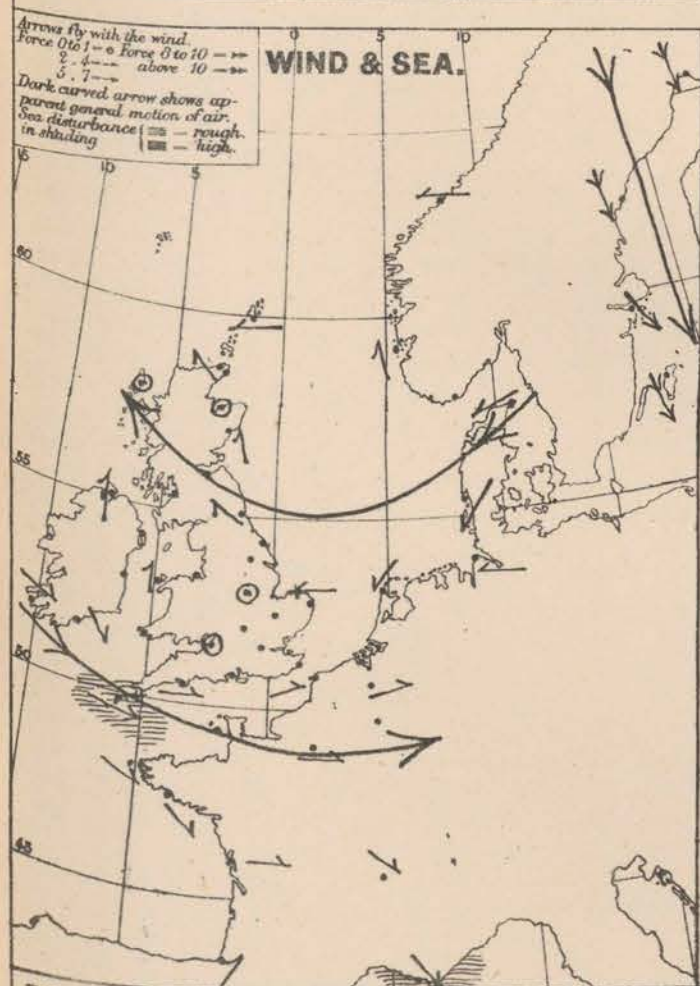
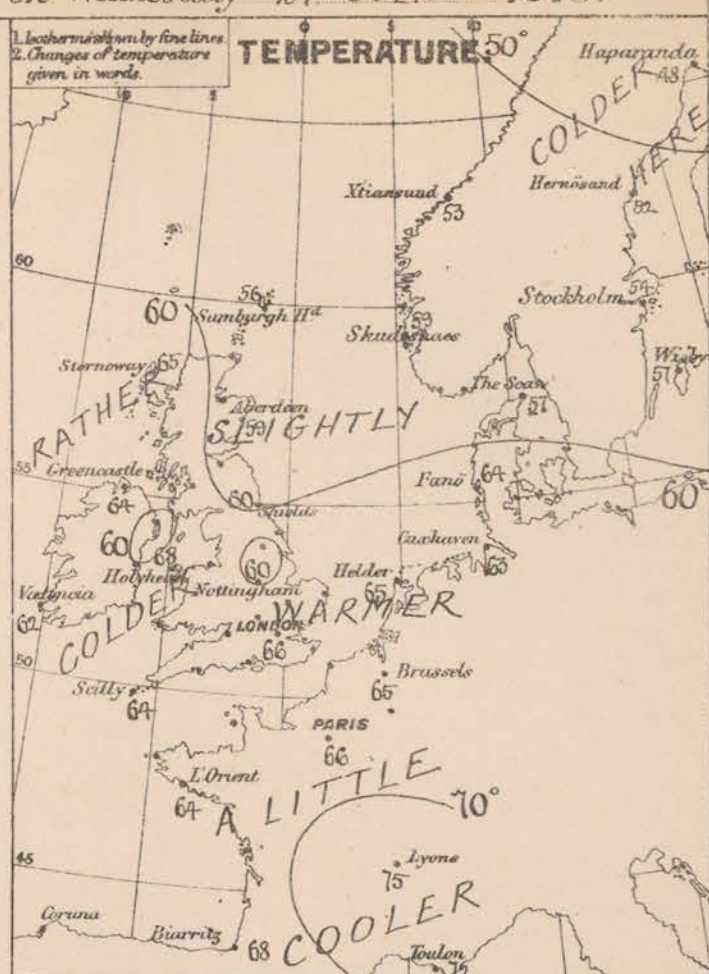
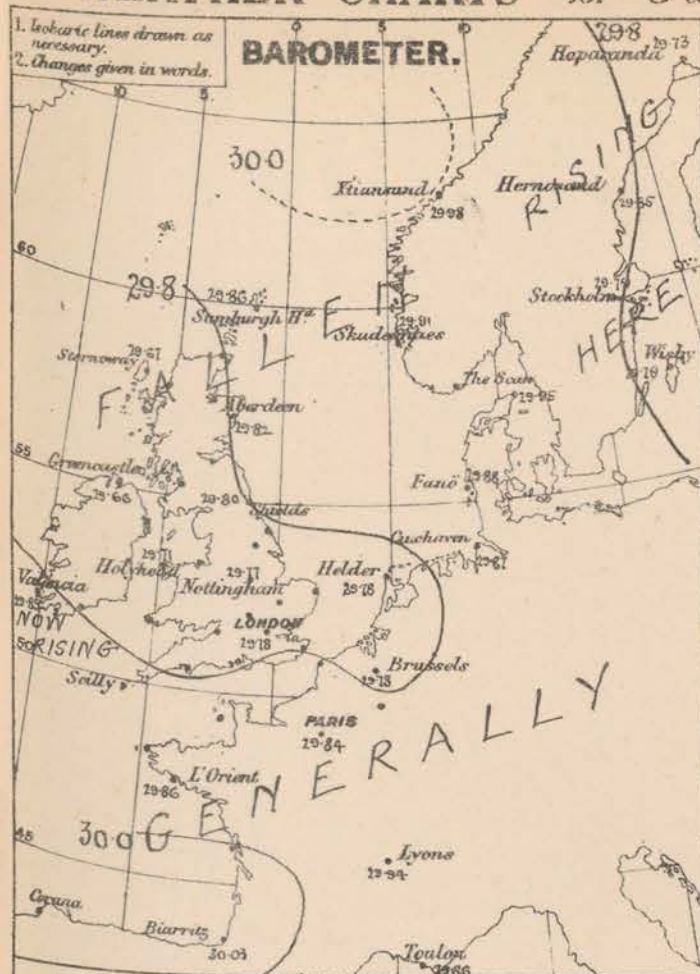
\* AN ASTERISK is inserted in all places for which information is not usually received.

† 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 24<sup>th</sup> July 1878.



REMARKS. Weather is very fine in Scandinavia and Denmark, but in nearly all other places the sky is overcast or cloudy fog is reported from Cape Rio Rey, mist from Lary, and showers, and rain from Donaghadee, Nottingham, Patishead and Roskilde. Rain has fallen during the past twenty four hours except on the E shores of the North Sea, the N. of Scotland, and the SE. of England, at Patishead 0.8 in: and at Donaghadee and Sicily about 0.5 in: has been measured. Thunder occurred in the W. of Scotland, and thunder and lightning in the W. and S. of England yesterday. Temperature has fallen at the French stations but has changed rather irregularly elsewhere; it varies over these Islands from 66° in London to 56° at Wick, during yesterday the thermometer in the shade rose to 80° at Merville, and 78° at Fosseuse, in London it reached 76° and did not fall below 61° in the night. Wind is W. at the most S. stations, and SE to E in the N. At Sicily it blows fresh. In the Baltic and Gulf of Bothnia a fresh N<sup>W</sup> gale is reported. Sea is moderate to calm.

Barometrical indications. Pressure is increasing briskly in Sweden, and is recovering somewhat over the M. coast, but is decreasing elsewhere. It is highest in the NW. of France, and slight local irregularities are shown over these Islands and their neighbourhood.

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

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



# DAILY WEATHER REPORT JULY 25<sup>TH</sup> 1878.

STATIONS.	† YESTERDAY EVENING.					8 A.M. TO DAY										PART 24 HOURS.		
	Barometer at 32° F. and Sea Level.	Temp. in shade.	WIND.		Weather.	BAROMETER.		STATE TEMP.			WIND.		Weather.	Sea (0 to 9).	STATE TEMP.		Amount of Rainfall.	
			Dir.	Force (0 to 12).		Reading at 8 A.M. and Sea Level.	Difference from 8 A.M. yesterday.	Dry.	Wet.	Difference from 8 A.M. yesterday.	Dir.	Force (0 to 12).			Max.	Min.		
Haparanda	29.73	48	N	2	bc	29.74	+0.01	48	42	0	WSW	6	b	*	57	27	-	
Hernösand	29.80	54	N NW	3	c	29.84	+0.01	54	46	+2	N NE	4	b	*	*	*	-	
Stockholm	29.45	53	N	4	b	29.85	+0.06	56	50	+2	N	2	b	*	*	*	-	
Wisby	29.81	51	E NE	6	b	29.84	+0.05	55	51	-2	N NW	6	b	*	*	*	-	
Christiansund	29.87	53	NE	5	b	29.81	-0.17	57	51	+4	E NE	2	b	3	57	45	-	
Skudesnaes	29.86	55	S	1	b	29.84	-0.07	61	57	+2	E SE	2	b	2	63	55	-	
Oxö (Kristiansund)	29.85	66	SW	4	b	29.87	-0.10	58	54	-1	N NW	2	b	2	66	52	-	
Skagen (The Sæw)	29.86	58	2	0	b	29.89	-0.07	62	55	+5	S SE	2	b	1	75	48	-	
Fanö	29.83	60	E	4	b	29.83	-0.02	64	60	0	E	4	b	*	72	52	-	
Cuxhaven	29.87	69	N NE	3	b	29.79	-0.08	65	59	+2	SE	3	b	*	72	55	-	
Samburgh Head	29.79	57	E	2	c	29.72	-0.14	56	56	0	SE	3	0	3	61	53	-	
Stornoway	29.66	58	N	1	m	29.63	-0.04	61	60	-4	N NW	2	0	1	70	59	-	
Thurso	29.71	64	SE	2	bc	29.66	-0.13	60	58	+3	E NE	2	c	2	68	53	-	
Wick	29.72	58	SSE	4	b	29.66	-0.13	60	58	+4	SE	2	b	2	65	54	-	
Nairn	29.69	67	2	0	bc	29.66	-0.10	60	55	+2	2	0	bc	0	71	63	-	
Aberdeen	29.74	61	SE	2	b	29.70	-0.12	61	59	+2	SSE	1	0	1	65	53	-	
Leith	29.68	63	E	3	e	29.66	-0.09	57	57	-2	E	1	0	*	65	55	-	
Shields	29.71	61	E	2	c	29.68	-0.12	63	60	+3	E	1	b	2	63	58	-	
Scarborough	29.71	59	ESE	2	0	29.67	-0.13	60	59	-3	ESE	1	0	2	64	59	-	
York	29.68	64	E	2	c	29.66	+0.14	61	60	+2	NE	1	0	*	68	57	0.21	
Nottingham	29.64	64	E NE	1	0	29.62	-0.18	64	62	+4	SSW	1	0	*	72	57	2.22	
Androsan	29.66	64	N NE	3	m	29.67	+0.06	62	58	-1	N NE	1	cm	1	65	56	0.20	
Greenacastle	29.68	60	N	2	0	29.69	+0.03	55	54	-9	NW	3	N	*	65	54	0.10	
Donaghadee	29.67	57	N NW	2	c	29.70	-0.01	57	57	-1	N NW	1	N	1	58	56	0.93	
Kingsdown	29.72	64	NW	5	e	29.74	+0.01	58	54	-2	N NW	5	C	4	66	56	0.11	
Holyhead	29.69	59	N NW	4	N	29.68	-0.03	57	57	-11	N NW	6	N	4	71	57	0.30	
Liverpool (Barton)	29.64	60	N	2	N	29.66	-0.07	60	59	-2	2	0	0	1	70	58	0.80	
Valencia	29.84	62	NW	2	c	29.83	-0.02	60	55	-2	WSW	2	0	2	67	50	-	
Roche's Point	29.80	64	NW	5	c	29.83	+0.04	60	56	-2	NW	3	b	3	67	55	-	
Pembroke	29.73	62	N NW	2	bc	29.78	+0.06	58	55	-2	N NW	3	b	2	64	56	-	
Portishend	29.69	65	WSW	4	e	29.72	-0.01	62	58	-2	WSW	3	b	3	69	58	0.38	
Scilly	29.85	63	N NW	6	bc	29.88	+0.06	61	59	-3	N NW	4	c	5	65	59	0.02	
Plymouth	29.76	67	NW	2	c	29.81	+0.05	63	59	-2	NW	2	b	*	72	59	-	
Hurst Castle	29.61	65	NW	3	bc	29.74	-0.03	64	62	0	N NW	4	b	4	69	60	0.02	
Dover	29.70	64	SW	3	bc	29.70	-0.10	66	61	+4	SW	4	b	3	69	58	0.20	
London	29.68	65	N	2	cl	29.70	-0.08	60	59	-6	SW	1	0	*	75	58	0.05	
Oxford	*	*	*	*	*	29.70	-0.06	58	58	-7	N	1	N	*	70	58	0.71	
Cambridge	29.67	69	N	1	t	29.69	-0.08	62	61	0	SW	1	0	*	73	55	0.11	
Yarmouth	29.70	62	SE	2	bc	29.68	-0.11	61	60	-1	2	0	m	2	64	57	0.21	
The Helder	*	*	*	*	*	29.69	-0.09	67	65	+2	S	4	0	*	*	*	-	
Cape Gris Nez	29.73	66	SW	2	bc	29.74	-0.08	63	61	0	SW	4	b	3	70	61	-	
Jersey	29.82	63	N	4	bc	29.86	+0.03	62	59	0	N	3	b	3	67	58	0.05	
Brest	?	?	N NW	3	0	?	?	61	59	0	NW	2	0	3	70	55	-	
L'Orient	29.89	64	NW	4	bc	29.91	+0.01	63	57	-1	NW	3	b	2	75	57	-	
Roche fort	29.97	70	NW	4	bc	30.01	+0.01	61	59	-7	NW	2	c	3	70	?	0.24	
Biarritz	30.01	70	N NW	5	N	30.00	-0.03	66	63	-2	N NW	4	N	3	72	59	0.12	
Coruna	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	
Brussels	*	*	*	*	*	29.73	-0.05	63	62	-2	SW	4	0	*	78	62	0.08	
Charleville	*	*	*	*	*	29.73	-0.05	62	*	-3	WSW	1	0	*	*	*	*	
Paris	29.74	73	WSW	3	bc	29.84	+0.00	63	58	-3	WSW	4	0	*	*	*	0.04	
Lyons	*	*	*	*	*	29.86	-0.08	73	*	-2	S	2	c	*	*	*	*	
Toulon	29.73	75	NW	6	b	29.80	-0.06	68	63	-4	NW	6	C	6	81	9	-	

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

Bar.	Dry.	Wet.	Wind.	Wet.	Sea.	Bar.	Dry.	Wet.	Wind.	Wet.	Sea.
Skudesnaes	29.88	62	57	SSE	4	Valencia	29.87	64	57	NW	3
Thurso	29.74	66	63	SE	3	Scilly	29.85	64	62	N NW	6
Scarborough	29.75	60	59	ESE	2	London	29.70	70	66	SSW	1
Greenacastle	29.68	61	58	N	2	Roche fort	29.98	68	64	NW	4
Holyhead	29.69	61	60	N NW	3						

Pressure is changing very little. It is increasing slightly in the W, decreasing in the E. Wind remains fresh from NW at Scilly.

## 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. (Christians time) in Sweden, Norway, and Denmark, and at 7 p.m. (Paris time) in France.

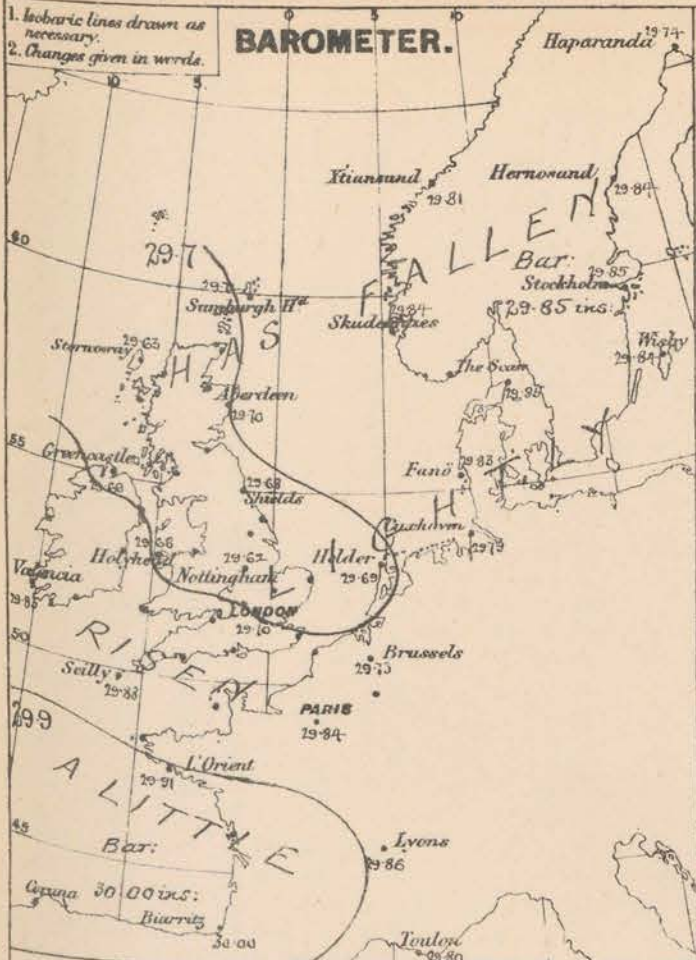
N.B.—The wind is said to "veer" when its direction changes with the sea, and to "back" when it shifts in the opposite direction.



# WEATHER CHARTS for 8 a.m. on Thursday 25<sup>th</sup> JULY 1878.

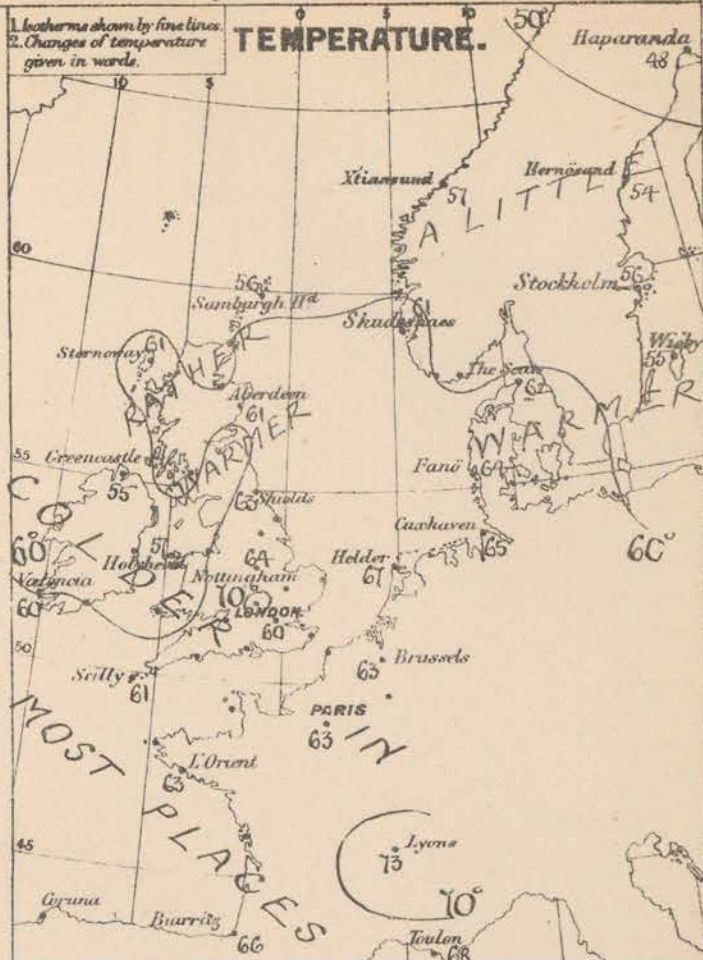
1. Isobaric lines drawn as necessary.
2. Changes given in words.

## BAROMETER.



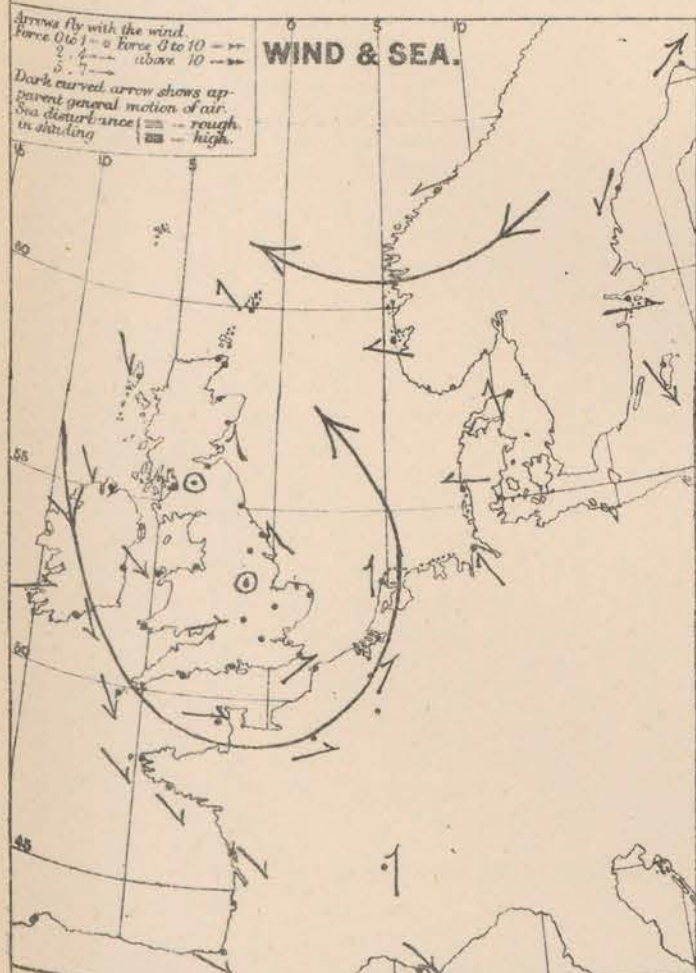
1. Isotherms shown by fine lines.
2. Changes of temperature given in words.

## TEMPERATURE.



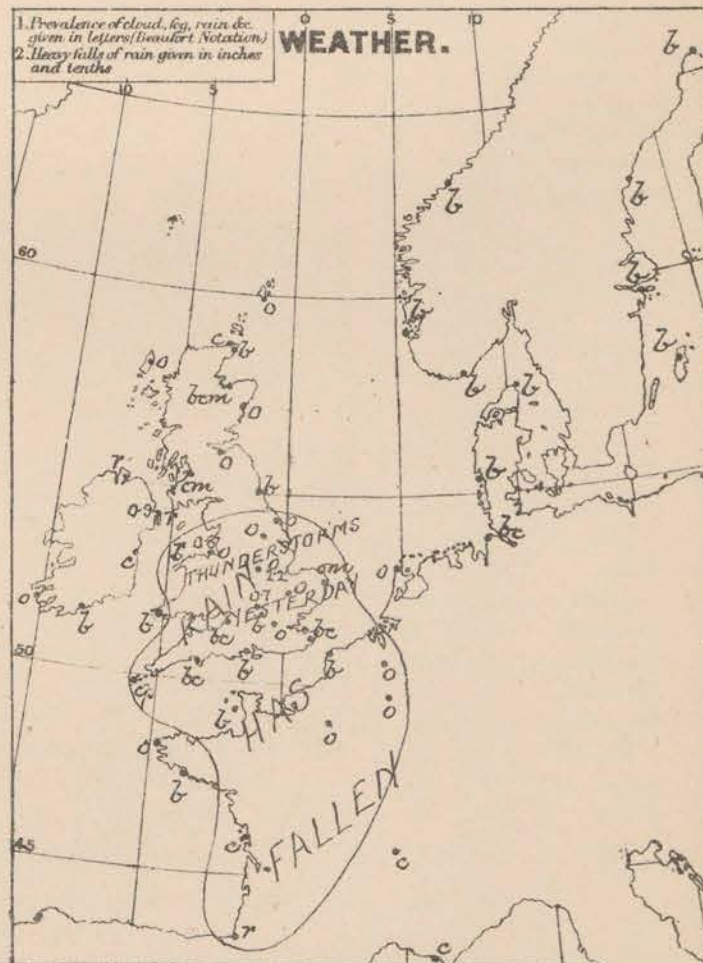
1. Arrows fly with the wind.
  - Force 0 to 10 --
  - Force 10 to 20 --
  - Force 20 to 30 --
  - Force 30 to 40 --
  - Force 40 to 50 --
  - Force 50 to 60 --
  - Force 60 to 70 --
  - Force 70 to 80 --
  - Force 80 to 90 --
  - Force 90 to 100 --
- Dark curved arrow shows apparent general motion of air.
- Sea disturbances: -- rough in shoaling -- 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 very changeable over the United Kingdom, and France this morning, clear in some places, dull in others, and raining at several stations. On the E. shore of the North Sea however it is clear and bright. Thunderstorms and heavy rain occurred in many parts of England and Ireland yesterday. The largest falls reported are 2.2 in. at Nottingham, 0.9 in. at Donaghadee, 0.8 in. at Liverpool, and 0.7 in. at Oxford. Temperature has changed irregularly and is on the whole rather low for the time of year. In the N. of Ireland readings vary from 55° to 57° but in other parts of our Islands and in France they are between 60° and 65°. The maximum readings over England yesterday varied from 70° to 75°. Wind is NW. on the W. and SW. coasts, and blows rather freshly in Wales and the W. of England. At the SE. stations it is SW. while over the North Sea, and N. of Scotland it is light from E. to SE. The N. gale in the Gulf of Bothnia has died down and at Haparanda the wind has shifted to the SW. Sea is moderate on the W. and S. coasts, slight or smooth elsewhere. Barometrical indication. Pressure is somewhat peculiarly distributed. Sea readings appear to prevail to the NW. of our Islands, from which in a band of low pressure extends SE. over Great Britain. In this band the barometer varies from 29.62 to 29.64 ins., whereas over the Bay of Biscay readings as high as 30.00 ins. are reported, and 29.85 ins. over Norway and Denmark. Local irregularities are still prevalent.

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

R. H. SCOTT.  
Secretary.



# DAILY WEATHER REPORT JULY 26<sup>TH</sup> 1878.

STATIONS.	† YESTERDAY EVENING.						8 A.M. TO DAY.										PAST 24 HOURS.		
	Barometer at 320 F. and Sea Level.	Temp. in shade.	WIND.		Weather.	Barometer. Reading at 320 F. and Sea Level.	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 ...	29.71	48	nn	2	a	29.73	-01	47	44	-1	nn	6	0	*	57	39	-		
Hernösand ...	29.74	53	ssw	4	b	29.74	-10	58	51	+4	ssw	2	6	*	*	*	-		
Stockholm ...	29.81	57	sw	4	b	29.78	-07	64	54	+8	sw	4	6	*	*	*	-		
Wisby ...	29.85	57	ssw	2	b	29.81	-04	59	58	+4	nnw	2	6	*	*	*	-		
Christiansund ...	29.82	58	z	0	b	29.76	-05	60	54	+3	ene	2	6c	2	61	50	-		
Skudesnaes ...	29.78	62	z	0	c	29.71	-13	62	55	+1	ene	2	0	2	64	5	-		
Oxö (Xtiansand) ...	29.81	64	ene	2	b	29.80	-07	62	58	+4	e	4	0	2	70	55	-		
Skagen (The Seal) ...	29.83	63	ssw	3	b	29.82	-06	63	58	+1	s	3	6	3	75	57	-		
Fanö ...	29.78	63	e	6	c	29.74	-09	60	56	-4	ese	4	0	*	70	55	0.08		
Cuxhaven ...	29.76	71	se	3	c	29.77	-02	63	62	-2	s	1	0	*	72	61	-		
Sumburgh Head ...	29.69	57	se	4	c	29.65	-10	57	57	+1	nnw	3	6	2	62	54	-		
Stornoway ...	29.68	57	nnw	2	0	29.72	+09	57	56	-4	nnw	3	6c	3	61	48	0.12		
Thurso ...	29.64	51	nnw	2	0	29.72	+06	55	54	-5	nnw	2	0	2	68	53	0.10		
Wick ...	29.64	61	se	1	b	?	?	?	53	?	nnw	3	0	2	63	53	0.11		
Nairn ...	29.60	61	nnw	1	0	29.74	+08	55	53	-5	z	0	0	1	73	54	0.61		
Aberdeen ...	29.64	63	sse	2	c	29.70	-00	58	55	-3	n	4	0	1	69	55	-		
Leith ...	29.62	63	e	1	0	29.68	+02	57	55	0	nnw	1	0	*	67	55	0.02		
Shields ...	29.64	64	ene	1	bc	29.70	+02	59	58	-4	nnw	2	6	2	66	57	0.03		
Scarborough ...	29.65	60	ese	2	b	29.70	+03	63	62	+3	nnw	1	0	1	67	58	-		
York ...	29.63	68	sw	3	c	29.71	+05	60	58	-1	nnw	1	0	*	74	56	0.48		
Nottingham ...	29.70	59	sw	2	h	29.76	+14	67	60	+3	nnw	3	6c	*	67	55	0.04		
Ardrossan ...	29.67	60	nnw	3	0	29.70	+03	59	55	-3	nnw	3	6	3	66	55	0.03		
Greencastle ...	29.74	62	nnw	2	b	29.77	+08	61	57	+6	nne	1	0	*	66	41	0.01		
Donaghadee ...	29.72	58	n	2	b	29.77	+07	59	56	+2	nne	3	6	2	59	51	0.01		
Kingstown ...	29.76	65	nnw	4	bc	29.80	+06	60	58	+2	n	1	0	1	67	57	0.04		
Holyhead ...	29.75	60	nnw	2	c	29.79	+11	59	57	+2	n	1	6c	0	62	55	0.17		
Liverpool (Bidston) ...	29.70	58	n	3	0	29.76	+10	60	56	0	nnw	1	6c	1	61	54	0.13		
Valencia ...	29.79	61	nnw	4	mo	29.86	+03	61	60	+1	nnw	2	ogd	2	64	58	0.04		
Roche's Point... ..	29.83	62	nnw	2	0	29.85	+02	63	59	+3	nnw	3	0	3	69	59	-		
Pembroke ...	29.79	63	n	3	b	29.81	+03	60	58	+2	nnw	3	6c	2	63	57	0.17		
Portishead ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...		
Scilly ...	29.86	64	nnw	4	0	29.92	+04	62	61	+1	nnw	6	opd	5	71	61	0.02		
Plymouth ...	29.83	67	nnw	3	c	29.83	+02	65	62	+2	n	3	0	*	72	61	0.07		
Hurst Castle ...	29.73	67	nnw	4	c	29.76	+02	62	60	-2	nnw	1	0	2	72	57	-		
Dover ...	29.74	64	nnw	4	b	29.81	+11	66	59	0	nnw	3	6	2	72	59	0.04		
London ...	29.74	63	n	3	0	29.79	+09	64	58	+4	nnw	1	6	*	75	54	0.08		
Oxford ...	...	*	*	*	*	29.80	+10	60	57	+2	sw	1	0	*	62	53	0.03		
Cambridge ...	29.72	62	n	1	c	29.78	+09	63	58	+1	n	1	6c	*	70	56	0.07		
Yarmouth ...	29.66	62	n	1	bc	29.73	+05	59	57	-2	n	2	mo	2	67	57	0.80		
The Helder ...	...	*	*	*	*	29.72	+03	64	61	-3	ssw	2	0	*	*	*	2.57		
Cape Gris Nez ...	29.78	63	nnw	5	b	29.82	+08	63	59	0	nnw	4	6c	3	66	61	0.04		
Jersey ...	29.90	62	n	3	bc	29.89	+03	62	62	0	nnw	2	0	2	66	59	0.03		
Brest ...	?	?	n	2	0	?	?	61	61	0	nnw	3	0	3	68	59	0.04		
L'Orient ...	29.93	64	nnw	4	b	30.00	+09	63	61	0	nnw	3	0	2	73	59	0.16		
Rochefort ...	30.02	75	nnw	5	bc	30.05	+04	64	59	+3	nnw	3	0	3	?	57	0.04		
Biarritz ...	30.04	70	nnw	4	bc	30.06	+06	68	66	+2	nnw	5	0	4	70	59	0.32		
Corunna ...	...	*	*	*	*	...	...	...	...	...	...	...	...	...	*	*	*		
Brussels ...	...	*	*	*	*	29.82	+09	62	58	-1	n	5	0	*	74	58	-		
Charleville ...	...	*	*	*	*	29.83	+10	57	*	-5	e	1	0	*	*	*	-		
Paris ...	29.83	68	n	1	0	29.91	+07	62	57	-1	nnw	2	6	*	*	*	-		
Lyons ...	...	*	*	*	*	29.94	+08	63	*	-5	nnw	6	6	*	*	*	-		
Toulon ...	29.75	73	nnw	6	bc	29.75	-05	61	55	-7	nnw	7	6	7	73	?	-		

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

	Bar.	Dry.	Wet.	Wind.	Wes.	Sea.		Bar.	Dry.	Wet.	Wind.	Wes.	Sea.		
Skudesnaes ...	29.80	56	54	SSE	2	c	2	Valencia .....	29.80	60	58	SSE	4	o m	4
Thurso .....	29.65	65	63	ESE	4	c	2	Scilly .....	29.89	66	60	W	4	o	5
Scarborough ...	29.66	62	60	ESE	1	b	2	London .....	29.74	66	62	W	2	e	*
Greencastle ...	29.72	62	56	WW	2	a	*	Rochefort ...	30.01	68	63	WW	4	bc	3
Holyhead .....	29.74	56	55	WWW	5	n	4								

Pressure is changing very little but has begun to decrease somewhat at Valencia, where the wind is SSE.

## 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.

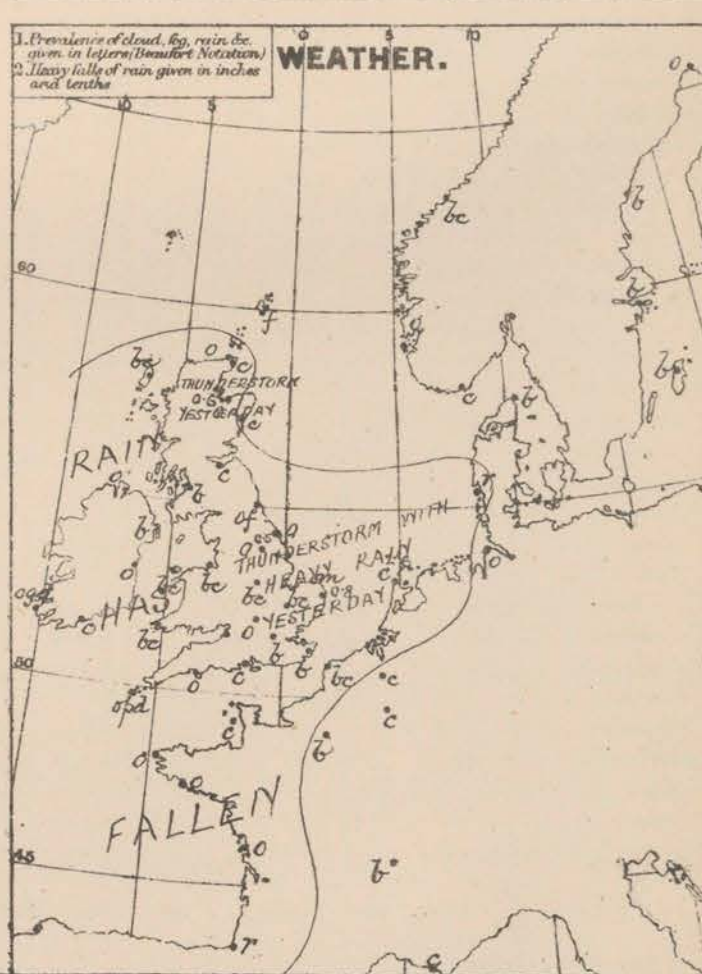
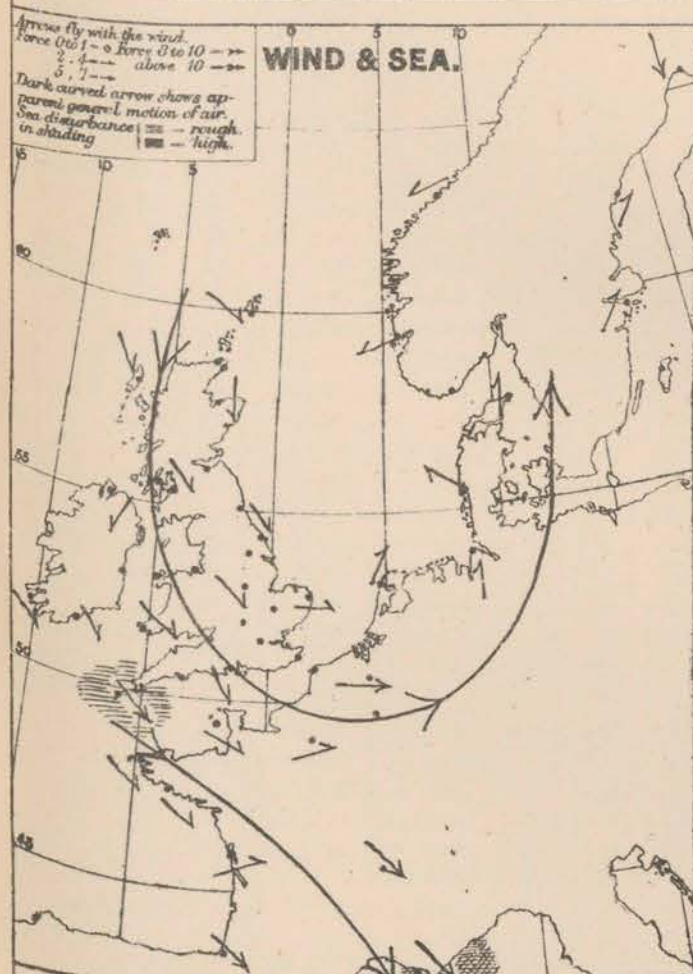
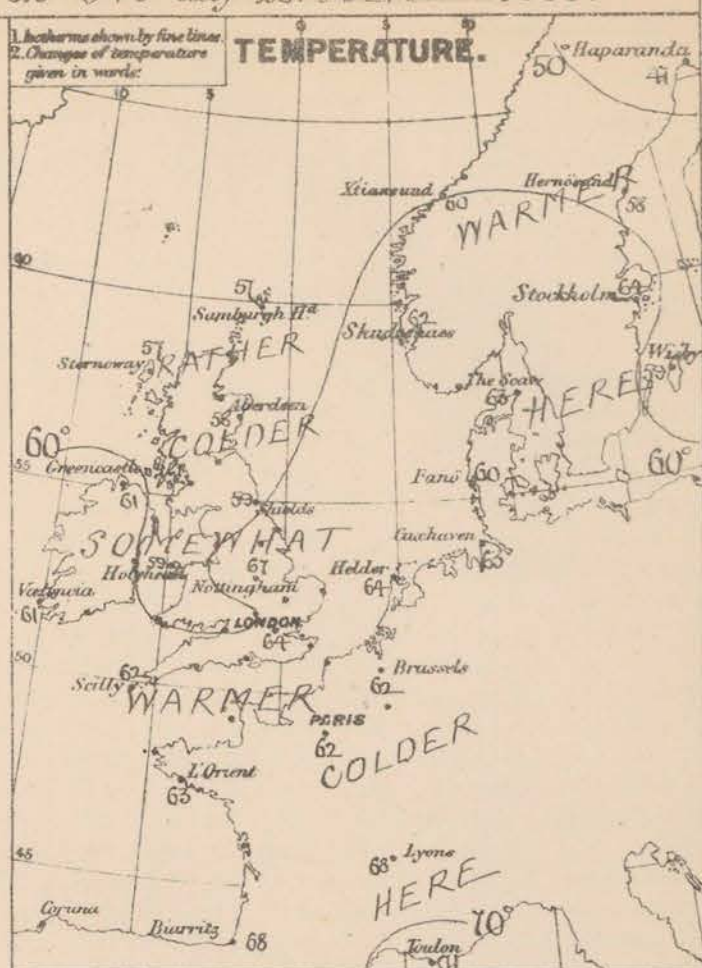
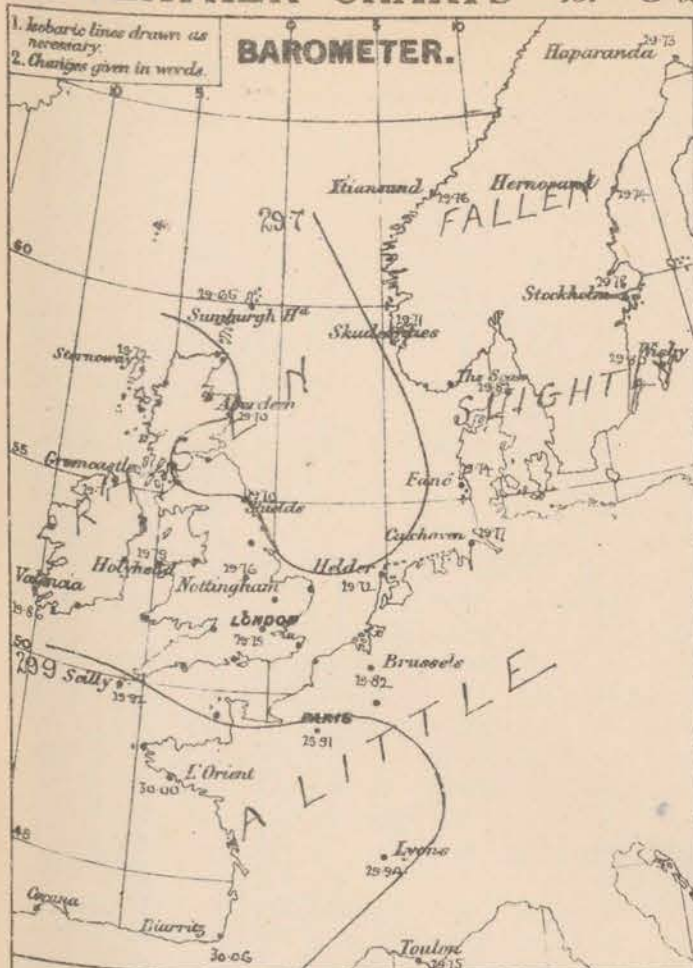
\* AN ASTERISK is inserted in all places for which information is not usually received.

† 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 Fri-day 26. JULY. 1878.



**REMARKS.** Weather this morning is still in a somewhat cloudy and unsettled state, with rain at our extreme SW stations. Fog and haze in the NE. and E. Thunderstorms occurred in many parts of England yesterday, that at Yarmouth having been very severe. More than 2.5 in. of rain fell at the Helder, 0.8 in. at Yarmouth, 0.6 in. at Hain, 0.5 in. at York, and a smaller quantity in nearly all other parts of the British Isles and in France. Temperature has not changed much and consequently remains low for the time of year. The maximum readings over England yesterday varied from 72° to 75°. Wind is light generally, but strong at the mouth of the Channel. It is variable from the NW over our islands, W. in the N. and W. of France, S. in Holland, and SE to E. in Denmark and Norway. In the S. of France a strong NW wind is reported. Sea is slight or smooth except at the mouth of the Channel. Barometrical indications. The tongue of low pressure which lay over Great Britain yesterday has moved slowly to the NE. and now lies over the North Sea. The barometer has consequently risen slightly over the United Kingdom, but there are still local irregularities in pressure which indicate further showery & changing weather.

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

R. H. SCOTT.  
Secretary.



# DAILY WEATHER REPORT

JULY 27<sup>TH</sup>

1878.

STATIONS.	† YESTERDAY EVENING.						8 A.M. TO DAY.										PAST 24 HOURS.		
	Barometer at 320 F. and Sea Level.	Temp. in shade.	WIND.		Weather.	Barometer. Reading at 320 F. and Sea Level.	Difference from 8 a.m. yesterday.	SHADE TEMP.			WIND.		Weather.	Sea (10 to 9).	SHADE TEMP.		Amount of Rainfall.		
			Dir.	Force. (1 to 12).				Dry.	Wet.	Difference from 8 a.m. yesterday.	Dir.	Force (1 to 12).			Max.	Min.			
Haparanda	29.81	49	Z	0	b	29.95	+22	47	46	0	N	4	0	*	55	37	-		
Hernösand	29.81	52	Z	0	b	29.90	+16	56	51	-2	ESE	2	b	*	*	*	-		
Stockholm	29.78	64	SW	2	b	29.85	+07	60	56	-4	Z	0	b	*	*	*	-		
Wisby	29.84	61	WSW	4	b	29.84	+04	62	58	+3	WNW	4	b	*	*	*	-		
Christiansund	29.67	59	NE	4	b	29.68	-08	59	55	-1	E	1	b	1	68	48	-		
Skudesnaes	29.65	58	ESE	4	o	29.65	-06	60	58	-2	ESE	2	o	3	?	?	0.16		
Oxö (Xiänsand)	29.76	60	SSE	4	z	29.74	-06	60	58	-2	SSE	4	o	3	66	59	0.04		
Skagen (The Seaw)	29.78	63	SSW	2	o	29.80	-02	62	59	-1	Z	0	z	0	73	55	-		
Fanö	29.76	59	SE	2	c	29.75	+01	60	59	0	SE	3	c	*	64	55	0.28		
Cuxhaven	29.81	65	SSE	1	c	29.77	-00	64	63	+1	SW	1	f	*	66	59	0.32		
Sumburgh Head	29.66	52	N	5	N	29.73	+08	54	52	-3	NNW	5	b	4	60	50	0.07		
Stornoway	29.75	59	N	3	b	29.88	+16	56	53	-1	NN	3	c	2	60	49	-		
Thurso	29.78	58	NNW	2	o	29.84	+12	56	54	+1	NNW	3	o	3	65	53	-		
Wick	29.77	58	NNW	3	c	29.83	?	54	52	?	NNW	1	o	0	63	48	0.02		
Nairn	29.79	60	SW	2	b	29.87	+12	55	52	0	N	1	o	1	64	52	-		
Aberdeen	29.74	62	N	3	c	29.85	+15	57	52	-1	NNW	3	b	1	62	48	0.07		
Leith	29.74	55	SSE	3	z	29.87	+19	60	55	+3	NN	1	c	*	66	51	0.10		
Shields	29.75	59	N	2	o	29.89	+19	57	54	-2	NNE	2	o	2	63	52	0.03		
Scarborough	29.75	60	N	2	o	29.88	+18	63	57	0	NNE	2	c	2	64	57	0.02		
York	29.73	66	NE	1	b	29.89	+18	58	56	-2	N	1	o	*	71	55	0.12		
Nottingham	29.77	64	NNW	2	o	29.91	+15	59	59	-8	Z	0	N	*	76	53	0.03		
Ardrossan	29.72	65	NN	3	b	29.89	+19	58	53	-1	NN	3	b	2	68	54	-		
Greencastle	29.83	61	N	2	b	29.96	+19	57	54	-4	NNE	1	o	*	65	54	0.01		
Donaghadee	29.80	62	N	4	b	29.96	+19	58	55	-1	N	5	b	4	64	53	-		
Kingstown	29.79	62	SE	1	o	30.01	+21	56	53	-4	WNW	4	b	4	64	53	0.11		
Holyhead	29.80	60	NNW	2	o	29.91	+22	58	53	-1	N	5	b	4	66	57	-		
Liverpool (Bidston)	29.78	61	NNW	1	o	29.89	+13	59	56	-1	WNW	4	o	2	65	55	-		
Valencia	29.85	63	NN	3	c	30.06	+20	61	56	0	NE	2	o	3	65	57	0.09		
Roche's Point	29.78	63	ESE	2	z	30.05	+20	59	55	-4	NNE	3	c	3	67	55	0.65		
Pembroke	29.78	62	SW	1	o	29.98	+17	59	56	-1	N	4	b	2	64	56	0.01		
Portishead	No observations taken					29.90		61	60		NW	3	o	3	68	56	0.02		
Seilly	29.88	64	NNW	6	o	30.02	+10	64	62	+2	NNW	4	c	5	65	61	0.22		
Plymouth	29.83	64	WSW	2	o	29.95	+12	65	62	0	NW	2	c	*	72	55	0.16		
Hurst Castle	29.81	67	W	4	c	29.89	+13	66	62	+4	NNE	3	b	2	70	56	-		
Dover	29.80	63	WSW	3	c	29.82	+01	64	60	-2	NNW	2	b	1	70	61	-		
London	29.78	70	WSW	2	o	29.87	+08	62	57	-2	NW	1	b	*	72	59	0.20		
Oxford	*	*	*	*	*	29.89	+09	59	56	-1	NN	2	o	*	68	57	0.33		
Cambridge	29.77	66	W	1	o	29.86	+08	61	59	-2	N	1	o	*	72	53	-		
Yarmouth	29.76	64	ESE	1	c	29.84	+11	61	59	+2	NNE	2	b	2	68	58	-		
The Helder	*	*	*	*	*	29.78	+06	63	62	-1	NNW	1	c	*	*	*	-		
Cape Gris Nez	29.81	64	WSW	3	c	29.85	+03	63	61	0	N	1	m	1	68	59	0.12		
Jersey	29.93	61	W	4	N	29.95	+06	63	61	+1	NNW	3	c	3	67	59	0.27		
Brest	?	68	N	4	m	?	?	61	59	0	NNW	4	b	4	?	57	-		
L'Orient	30.02	63	NNW	4	m	29.99	-01	63	61	0	NN	3	c	3	72	67	0.04		
Rochefort	30.11	70	NN	5	o	30.05	-00	66	59	+2	NW	4	c	3	70	57	0.04		
Biarritz	30.15	70	NNW	4	o	30.09	+03	64	63	-4	WNW	5	N	4	70	61	0.04		
Corunna	*	*	*	*	*			*	*						*	*	*		
Brussels	*	*	*	*	*	29.81	-01	64	59	+2	WSW	1	c	*	70	59	-		
Charleville	*	*	*	*	*	29.79	-04	60	*	+3	ESE	1	N	*	*	*	*		
Paris	29.87	66	SW	1	o	29.85	-06	62	59	0	N	2	o	*	*	*	0.16		
Lyons	*	*	*	*	*	29.91	-03	71	*	+3	N	2	c	*	*	*	*		
Toulon	29.72	75	NN	8	b	29.82	+07	66	57	+5	NN	8	b	7	77	61	-		

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

	Bar.	Dry.	Wet.	Wind.	Wca.	Sea.		Bar.	Dry.	Wet.	Wind.	Wca.	Sea.
Skudesnaes	29.69	60	57	ESE	4	o	3	Valencia	29.82	64	63	N	5 g d m 5
Thurso	29.76	63	60	NNW	2	c	3	Seilly	29.93	63	63	WSW	5 N 5
Scarborough	29.74	60	59	N	3	o	3	London	29.81	69	62	SW	2 o *
Greencastle	29.80	63	58	NNE	1	o	*	Rochefort	30.08	69	64	NW	5 c 3
Holyhead	29.80	62	59	NNW	2	c	1						

The barometer is still very unsteady in our islands, in the S. the wind is backing and the general appearance is very rainy and threatening.

## 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.

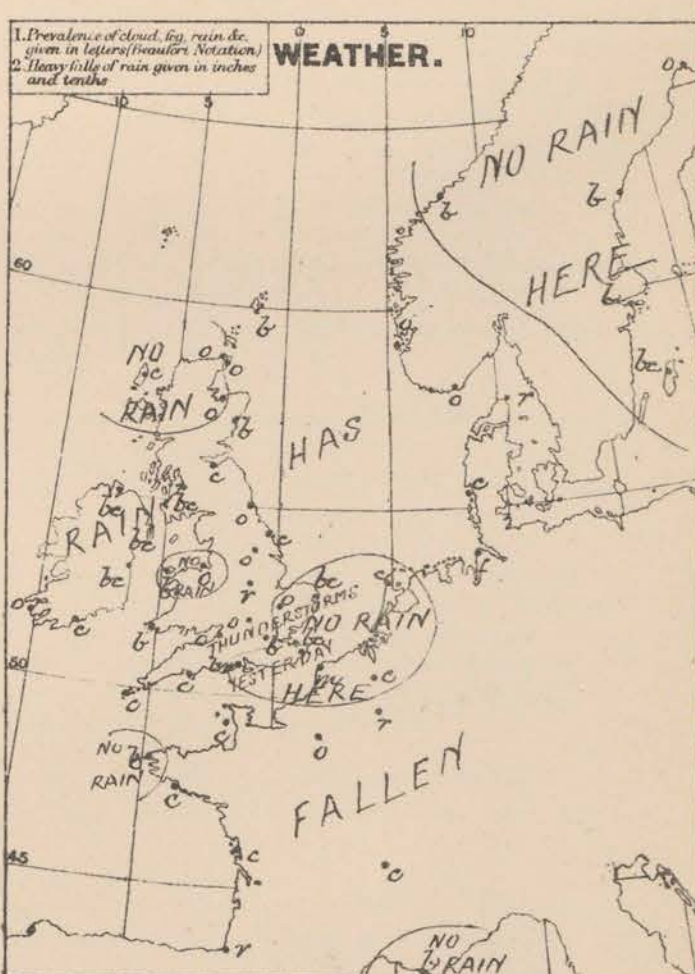
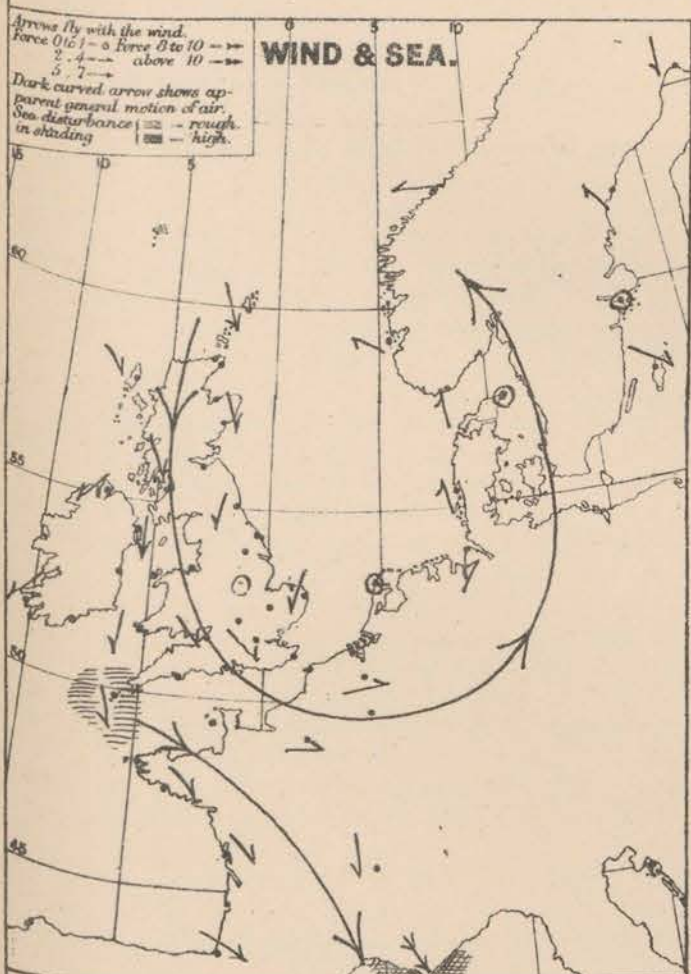
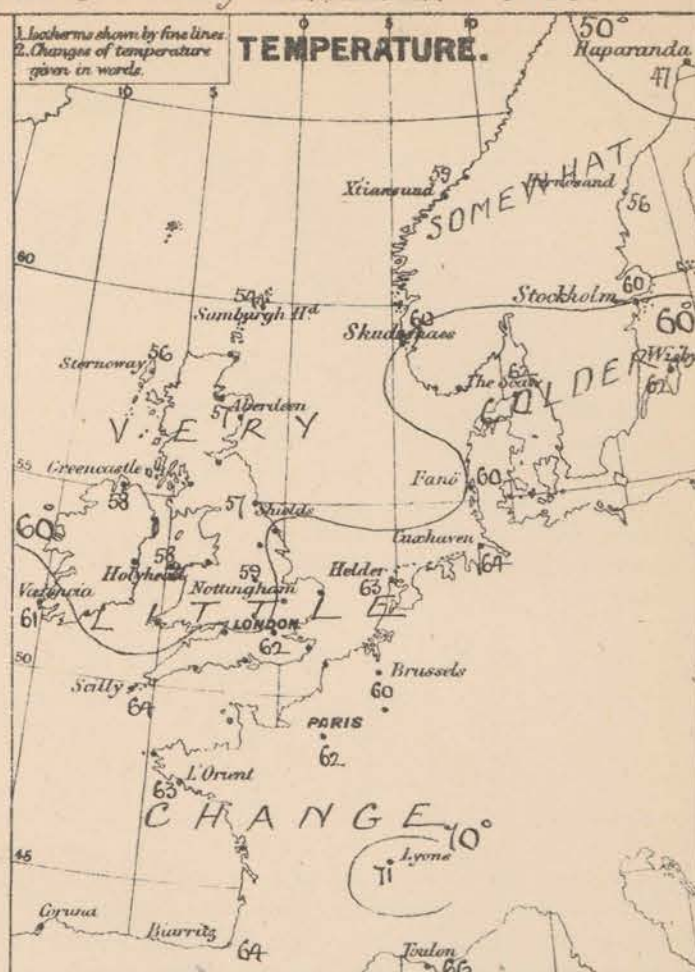
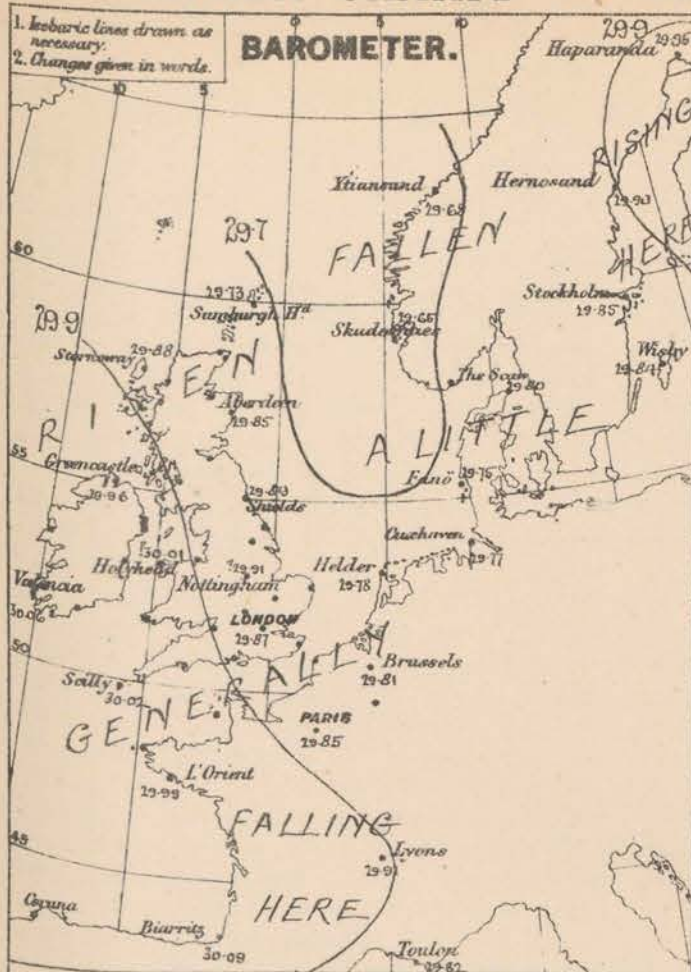
\* AN ASTERISK is inserted in all places for which information is not usually received.

† 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 27 JULY 1878.



**REMARKS.** Weather over the United Kingdom shows very little change from that of yesterday, the amount of cloud is different localities varying greatly, while rain is falling at some of the French stations. Thunderstorms again occurred over the S. and S.E. of England yesterday, but the rainfall reported was not very large. At Roches P. however, 0.65 in. was measured. Temperature has fallen slightly at some of the Scandinavian stations, but shows scarcely any change elsewhere, and is several degrees below the average for the time of year. The maximum values yesterday varied from 70° to 72° over England generally, but 76 was recorded at Nottingham. Wind is light generally, but fresh over the Irish Sea. It is NW to W. in our Islands, N. to S.W. at Rossett and Cuxhaven, S.E. to E. on the E. shores of the North Sea. On the S. of France is fresh from NW. is reported. Sea is moderate except in the Channel, and North Sea, where it is very little disturbed.

Barometrical indications. The tongue of low pressure noticed during the last day or two is now found close to the N. of Norway. The barometer is rising generally, most in our Islands, and gradients for N. to NW. winds prevail all over the country.

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

R. H. SCOTT.  
Secretary.



# SUMMARY OF WEATHER IN WESTERN EUROPE

from 21<sup>st</sup> JULY to 27<sup>th</sup> JULY 1878.

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

The weather during this week has been much cooler and less settled than that of the week which preceded it. On Sunday and Monday, a long shallow depression lay over the English Channel giving us E<sup>ly</sup> winds over England while light westerly breezes were felt in the north of France. A tongue of low pressure then appeared over our Islands, and as it moved slowly to the NE<sup>ly</sup>, cool breezes from NW and N. and showery weather spread over the Kingdom, accompanied by thunderstorms in many places, but followed by an improved condition generally.

## Sunday 21<sup>st</sup> JULY.

Weather very fine but getting a little cooler in our Islands. Thunderstorms at some isolated places in the S. and SE. towards night.

Temperature much lower on our NE. coasts and in the west of France, but rising to between 80° and 85° over England, and to 89° at Nottingham, though, (excepting at Rochefort) not rising above 75° or 77° at the Western French stations.

Wind very light generally, and variable, but still NE<sup>ly</sup> to E<sup>ly</sup> over the south of England; N<sup>ly</sup> to S<sup>ly</sup> in the N. of France. In force, gusty at times. Moderate to strong N<sup>ly</sup> breezes again reported to the eastward of the North Sea.

Sea moderate to smooth.

Barometer highest over our Islands and the North Sea, but reading irregular. A shallow depression lying over the English Channel.

## Monday 22<sup>nd</sup> JULY.

Weather clear in the west, but cloudy in many parts of England and Scotland, and much less settled than of late.

Temperature fallen several degrees in the north of England, the fall recently noticed in the north spreading southwards in an irregular manner. Maximum values still 80° to 83° in several parts of England.

Wind very light and variable, drawing into south on our north-west coast towards night. NE<sup>ly</sup> breezes prevalent at our southern stations, and N<sup>ly</sup> to S<sup>ly</sup> in the north of France.

Sea moderate to smooth.

Barometer risen in north, and highest readings now found over the north of our Islands and the North Sea. Elongated depression still found over the Channel with local irregularities in pressure over all the southern half of England.

## Tuesday 23<sup>rd</sup> JULY.

Weather clear in Ireland and on the eastern shores of the North Sea, cloudy over Great Britain and the greater part of France, with rain in several places during the day.

Temperature inclined to fall briskly, but nevertheless rising to 80° in the north of Ireland during the hottest part of the day.

Wind very variable; fresh from the NW<sup>ly</sup> in Denmark and Norway, E<sup>ly</sup> over England but N<sup>ly</sup> over the NW. parts of France. In Scotland and the NW. parts of Ireland S<sup>ly</sup> and SE<sup>ly</sup> breezes reported.

Sea rather rough off the west of Norway.

Barometer high in the north, and rather so in the SW. part of France, but lower to the westward of Ireland and over North Germany. The mercury falling generally during the day, and winds becoming very variable.



Wednesday 24<sup>th</sup> JULY.

Weather dull and unsettled with thunderstorms in many parts of the Kingdom. More than 2 in. of rain at Nottingham, 0.9 in. at Donaghadee and the extreme N. and S.W. of London, 0.8 in. at Liverpool, and 0.7 in. at Oxford.

Temperature changing little and irregularly, but <sup>readings</sup> rather lower generally than on the 23<sup>rd</sup>.

Winds variable; still N<sup>W</sup> to NN<sup>W</sup> in France and Ireland and also in the Channel, but light from the eastward in Scotland and the east of England.

Sea rough at the mouth of the Channel.

Barometer lower everywhere than on the 23<sup>rd</sup>. A tongue of low pressure extending in a SE<sup>ly</sup> direction from the Atlantic over the British Isles, and moving laterally (but very slowly) to the north-eastward.

Thursday 25<sup>th</sup> JULY.

Weather still dull, except on the eastern shores of the North Sea, and showery in all parts of the United Kingdom. Thunderstorms occurring in many parts of England and Holland during the day, those at the south-eastern stations being especially severe. Rainfall 2.6 in. at the Helder, 0.8 in. at Yarmouth, 0.6 in. at Dover and 0.5 in. at York.

Temperature still lower than on the 24<sup>th</sup>.

Winds. The NN<sup>W</sup> wind gradually spreading over the country, while the E<sup>ly</sup> and SE<sup>ly</sup> breezes are felt only on our north-east coasts and on the eastern shores of the German Ocean.

Sea moderate to smooth.

Barometer highest at the extreme south-western and north-eastern stations. The tongue of low readings noticed yesterday being now over Scotland and the northern and eastern parts of England. The mercury unsteady generally.

Friday 26<sup>th</sup> JULY.

Weather still cloudy and unsettled, with rain in the south-west, fog and haze in the north-east. Showers of rain in several places (0.7 in. at Roches Point), and thunderstorms over the south-eastern countries.

Temperature very little changed, but the tendency still to decrease in many places. The maximum values very little above 70° in any part of the Kingdom, and as low as 64° or 65° in the north.

Winds light from between north and west, but still E<sup>ly</sup> on the eastern shores of the North Sea. Strong NW. winds blowing in over the south of France.

Sea rough at Lally.

Barometer inclined to rise in our Islands, and to fall in Norway and Denmark. The tongue of low pressure now found over the North Sea with local irregularities (on its eastern side) over the British Isles.

Saturday 27<sup>th</sup> JULY.

Weather very little changed from that of Friday, but inclined to improve generally in the latter part of the day. Very little rain reported except in the South of Ireland and at some of our south-eastern stations.

Temperature remaining low generally.

Winds drawing more N<sup>W</sup> on the whole and freshening a good deal locally in the Irish Sea. SE<sup>ly</sup> and E<sup>ly</sup> breezes still felt in Norway and Denmark. A NW gale in the South of France. Light variable breezes appearing in Ireland at evening.

Sea remaining rough in the south-west, and running high in the Mediterranean.

Barometer rising all over the United Kingdom until the evening, when a fall set in over Ireland. The tongue of low pressure recently noticed, now found over the west of Norway.



# DAILY WEATHER REPORT

JULY 28<sup>TH</sup> 1878.

STATIONS.	† YESTERDAY EVENING.					8 A.M. TO DAY.										LAST 24 HOURS.		
	Barometer at 32° F. and Sea Level.	Temp. in shade.	WIND.		Weather.	BAROMETER.		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 ...	29.97	49	N	2	bc	30.02	+ .07	57	54	+ 10	Z	0	b	*	61	57	-	
Hernösand ...	29.96	51	Z	0	b	30.01	+ .11	56	52	0	NE	2	b	*	*	*	-	
Stockholm ...	29.92	59	SSH	2	b	29.96	+ .11	63	56	+ 3	S	2	b	*	*	*	-	
Wiesby ...	29.87	60	Z	0	b	29.88	+ .04	61	57	- 7	NNE	2	b	*	*	*	-	
Christiansund ...	29.73	57	NNH	2	0	29.67	+ .13	58	56	- 1	N	1	0	2	63	52	-	
Skudesnaes ...	29.80	55	SSH	4	0	29.85	+ .20	58	56	- 2	NNH	2	0	2	?	57	-	
Oxö (Ålsmålad) ...	29.85	62	SE	1	0	29.86	+ .12	59	58	- 1	E	4	0	2	?	57	0.16	
Skagen (The Head) ...	29.85	60	Z	0	0	29.86	+ .06	63	60	+ 1	Z	0	0	0	66	55	0.04	
Fanö ...	29.82	60	Z	0	0	29.80	+ .05	60	60	0	NW	4	T	*	68	57	0.04	
Cuxhaven ...	29.85	65	N	2	0	29.87	+ .04	62	59	- 2	NNE	3	0	*	66	61	-	
Sumburgh Head ...	29.97	52	NNH	5	0	29.92	+ .19	57	50	- 3	NNH	4	0	4	58	45	0.05	
Stornoway ...	29.95	57	NNH	4	0	30.02	+ .14	55	52	- 1	N	1	0	0	61	46	-	
Thurso ...	29.93	57	NNH	2	bc	30.00	+ .16	52	51	- 4	NNH	2	0	3	62	50	0.07	
Wick ...	29.94	58	N	2	bc	30.00	+ .17	55	50	+ 1	N	3	0	0	62	49	-	
Nairn ...	29.96	57	NNH	1	0	30.02	+ .15	54	52	- 1	NNH	1	0	1	61	50	0.03	
Aberdeen ...	29.93	57	S	1	0	29.98	+ .13	57	52	0	N	3	0	1	63	52	0.01	
Leith ...	29.89	63	NNH	2	0	29.96	+ .09	64	58	+ 4	E	1	bc	*	69	53	0.04	
Shields ...	29.94	58	SE	1	0	30.00	+ .11	54	52	- 3	Z	0	0f	1	60	48	0.02	
Scarborough ...	29.95	58	E	1	0	29.98	+ .10	60	55	- 3	NNH	1	0	1	63	52	-	
York ...	29.98	54	NE	1	bc	29.99	+ .10	55	54	- 3	N	1	bc	*	64	41	0.58	
Nottingham ...	29.94	64	SE	1	0	29.99	+ .08	61	57	+ 2	ENE	2	0	*	67	51	0.13	
Ardrossan ...	29.94	60	NNH	4	0	29.98	+ .09	59	55	+ 1	NW	1	0	0	64	48	-	
Greencastle ...	30.01	58	NNE	1	0	29.98	+ .02	58	54	+ 1	N	1	bc	*	62	52	-	
Donaghadee ...	30.01	61	N	3	0	30.00	+ .04	58	54	0	NNE	4	0	3	64	47	-	
Kingstown ...	30.00	60	E	1	bc	30.00	- .01	59	56	+ 3	SE	1	0	1	64	55	-	
Holyhead ...	30.01	62	NNH	1	0	29.99	- .02	56	54	- 2	ESE	1	0	0	64	58	-	
Liverpool (Bishopscroft) ...	29.95	62	NNH	3	0	29.98	+ .09	60	56	+ 1	Z	0	0	1	63	46	-	
Valencia ...	30.04	62	SE	1	0	29.96	- .20	60	57	- 1	E	4	0	4	64	56	0.64	
Roché's Point ...	30.05	60	N	2	0	29.95	- .10	57	55	- 2	E	5	0	4	68	55	0.70	
Penmroke ...	30.02	61	NNH	2	bc	29.98	.00	59	57	0	E	1	bc	1	63	53	-	
Portishead ...	29.93	66	NNH	4	bc	29.98	+ .08	57	53	- 4	NNH	3	bc	3	72	48	-	
Scilly ...	30.07	63	NE	2	0	29.95	- .07	58	57	- 6	ESE	6	T	5	66	58	0.09	
Plymouth ...	30.07	65	NNH	4	0	30.00	+ .05	57	55	- 8	NE	1	0	*	72	55	0.02	
Hurst Castle ...	29.92	73	NNH	4	0	29.96	+ .07	64	59	- 2	N	2	bc	2	75	50	-	
Dover ...	29.99	61	ESE	2	0	29.94	+ .12	64	59	0	E	3	bc	2	70	59	0.26	
London ...	29.92	67	NNH	2	0	29.95	+ .08	59	57	- 3	Z	0	0	*	73	57	0.01	
Oxford ...	*	*	*	*	*	29.97	+ .08	52	52	- 5	NNE	1	0	*	69	48	-	
Cambridge ...	29.92	61	NE	1	T	29.98	+ .12	56	55	- 5	Z	0	p	*	69	52	0.03	
Yarmouth ...	29.94	58	NE	2	bc	29.97	+ .13	59	55	- 2	N	2	bc	2	64	55	0.25	
The Helder ...	*	*	*	*	*	29.91	+ .13	61	57	- 2	NNH	1	bc	*	*	*	0.12	
Cape Gris Nez ...	29.91	63	NNE	3	0	29.95	+ .10	59	59	- 4	ENE	2	0	1	70	57	0.24	
Jersey ...	30.03	65	NNH	3	0	30.02	+ .07	60	57	- 3	NW	1	0	1	67	54	-	
Brest ...	30.15	73	NNH	2	bc	30.06	?	61	61	0	N	1	m	2	?	57	0.04	
L'Orient ...	30.05	66	NNH	4	0	30.02	+ .03	61	59	- 2	NNH	1	T	1	73	55	-	
Rochefort ...	30.12	75	NNH	5	0	30.09	+ .04	66	?	0	NNH	3	0	3	?	57	-	
Biarritz ...	30.14	68	NNH	4	T	30.06	- .03	64	63	0	SSH	2	T	4	70	61	0.05	
Corunna ...	*	*	*	*	*	?	?	?	?	?	SH	3	0	1	*	*	*	
Brussels ...	*	*	*	*	*	29.94	+ .13	58	56	- 6	NE	1	0	*	71	54	0.34	
Charleville ...	*	*	*	*	*	29.87	+ .08	63	*	+ 3	E	1	0	*	*	*	*	
Paris ...	29.91	71	NNH	3	0	29.96	+ .11	63	58	+ 1	NNH	3	0	*	*	*	-	
Lyons ...	*	*	*	*	*	30.00	+ .09	71	*	0	NNH	2	0	*	*	*	*	
Toulon ...	29.73	75	NNH	8	0	29.81	- .01	66	59	0	NNH	6	0	6	75	64	-	

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

	Bar.	Dry.	Wet.	Wind.	Wes.	Sea.		Bar.	Dry.	Wet.	Wind.	Wes.	Sea.		
Skudesnae ...	29.75	52	59	SSH	4	0	3	Valencia .....	30.05	60	58	SSH	1	7	2
Thurso .....	29.91	60	57	NNH	2	0	3	Scilly .....	30.07	65	60	NNE	4	0	5
Scarborough ...	29.94	60	55	ENE	1	0	2	London .....	29.91	470	63	NN	1	0	*
Greencastle ...	30.00	59	54	NNH	1	0	*	Rochefort ...	30.08	75	72	NNH	4	bc	3
Holyhead .....	?	62	57	NNH	3	bc	2								

No change of importance.

## EXPLANATION OF COLUMNS.

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

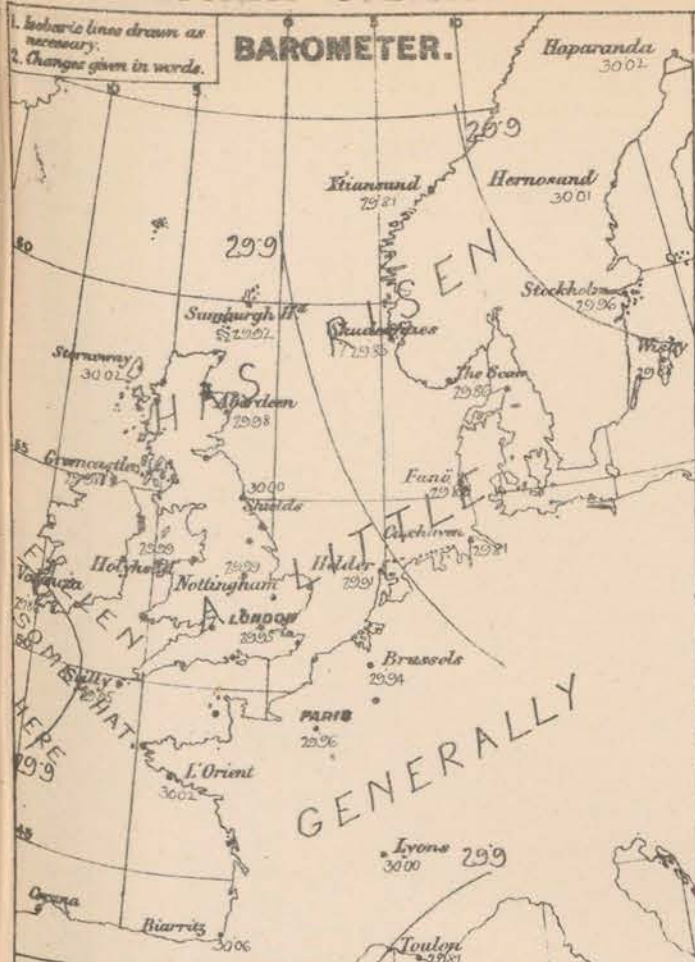
N.B.—The wind is said to "veer" when its direction changes with the sun, and to "back" when it shifts in the opposite direction.



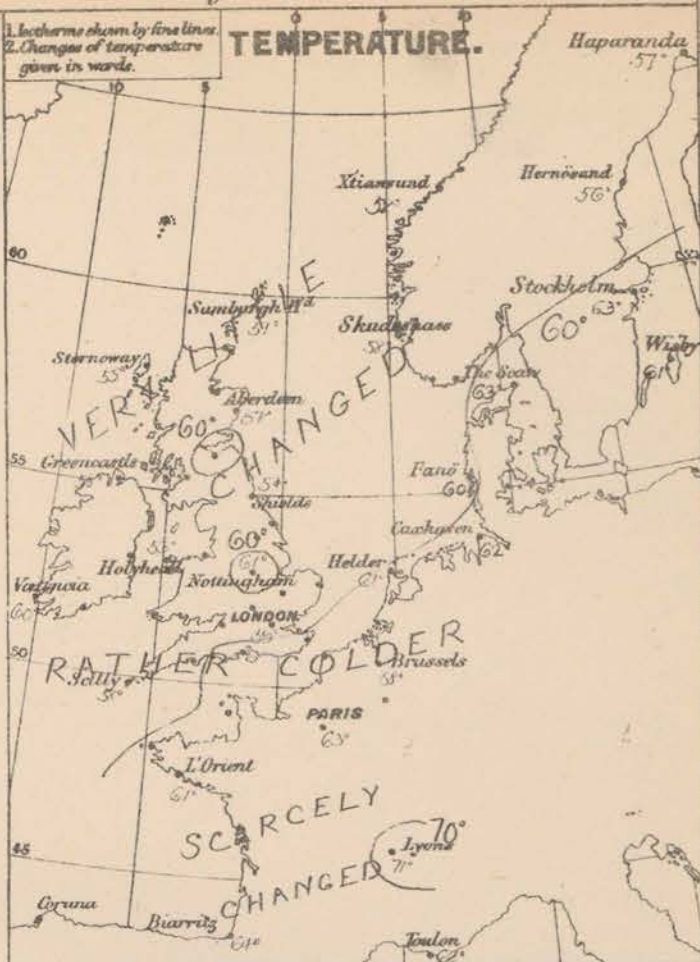
## WEATHER CHARTS

for 8 a.m. on Sunday 28<sup>th</sup> JULY 1878.

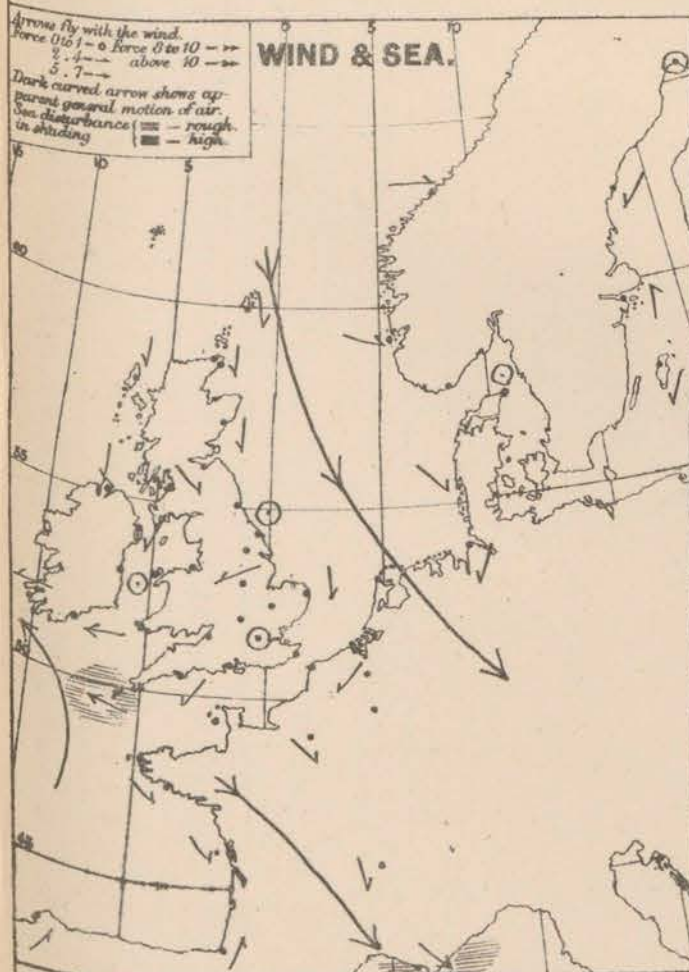
## BAROMETER.



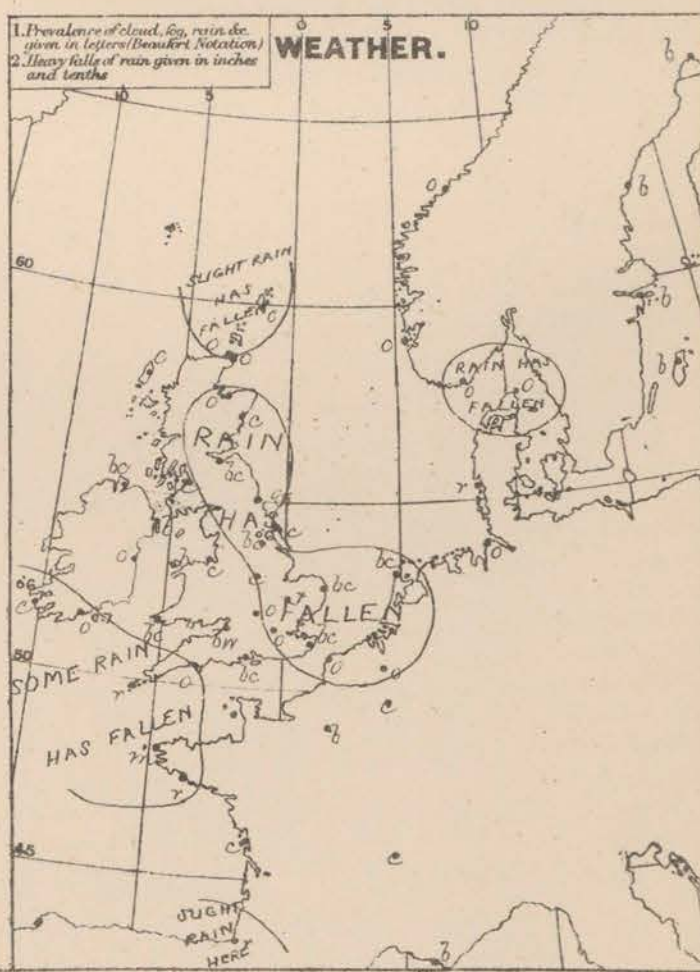
## TEMPERATURE.



WIND & SEA.



## WEATHER.



**REMARKS.** Weather is fine at many of our south eastern and north western stations, and also in Sweden, but cloudy in all other parts of Western Europe; rain is falling at many of the south western stations. Rain fell in many places yesterday or during the night, and at York, Valentia and Roche's Pt. the amounts measured this morning are heavy. Thunderstorms occurred at Nottingham and Dover yesterday. Temperature has fallen a few degrees at many of our southern stations but has not changed much in other places; the readings this morning vary from 51° to 66° in Scotland, from 58° to 60° in Ireland and from 54° to 64° in England. During yesterday the thermometer rose to 75° at Hurst Castle and to 73° in London. Wind is fresh to strong from the E. at our south western stations but in the other districts it is generally light to moderate from N, while in France and on the eastern shores of the North Sea it draws into N.W. Sea is rough at Lillie and Toulon, slight or smooth elsewhere.

Barometrical Indications. The barometer has risen a little in most parts of our area, but in the south west a rather brisk fall has set in during the night, and a depression appears to be advancing towards that region from the Atlantic. Pressure is, however, at present very uniform.

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

**R. H. SCOTT.**  
Secretary

Dangerfield Inn 22 Bedford St. Covent Garden



# DAILY WEATHER REPORT

JULY 29<sup>TH</sup> 1878.

STATIONS.	† YESTERDAY EVENING.						8 A.M. TO DAY										PART 24 HOUR		
	Barometer at 320 p.m. and Sea Level.	Temp. in shade.	WIND.		Weather.	Barometer at 320 p.m. and Sea Level.	SHADE TEMP.			WIND.	Temp. (0 to 12).	Weather.	Sea (0 to 2).	SHADE TEMP.			Max.	Min.	Average of Rainfall.
			Dir.	Force (1 to 12).			Dry.	Wet.	Difference from 8 a.m. yesterday.										
Haparanda	30.02	57	W	2	b	30.10	+ 08	60	59	+ 3	Z	0	b	*	68	45	-	-	-
Hernösand	30.04	52	Z	0	b	30.12	+ 11	57	52	+ 1	ENE	2	b	*	*	*	-	-	-
Stockholm	29.98	58	Z	0	b	30.04	+ 05	63	57	0	NE	4	b	*	*	*	-	-	-
Wisby	29.89	58	ESE	2	b	29.89	+ 01	63	59	+ 2	ESE	6	b	*	*	*	-	-	-
Christiansund	29.89	62	ENE	1	o	29.95	+ 14	66	59	+ 8	E	1	b	1	66	52	-	-	-
Skudesnaes	29.74	58	N	2	o	29.94	+ 09	62	56	+ 4	NNE	2	c	2	?	57	-	-	-
Oxö (Ålön)	29.87	62	ENE	2	o	29.89	+ 03	62	55	+ 3	NE	6	c	2	64	55	-	-	-
Skagen (The Sea)	29.88	60	ENE	3	f	29.89	+ 03	63	57	0	E	4	o	4	68	55	-	-	-
Fanö	29.78	58	ENE	2	o	29.78	- 02	57	55	- 3	E	4	c	*	61	54	0.35	-	-
Cuxhaven	29.81	61	NNW	5	f	29.74	- 07	59	57	- 3	NNW	4	f	*	61	54	0.74	-	-
Sumburgh Head	29.88	51	N	3	o	30.06	+ 14	64	52	+ 3	N	3	b	3	64	47	0.12	-	-
Sornoway	30.03	56	N	3	o	30.12	+ 10	55	51	0	NNE	1	c	1	60	48	-	-	-
Thurso	30.02	53	NN	1	f	30.11	+ 11	55	54	+ 3	N	2	o	3	60	51	0.08	-	-
Wick	30.01	54	N	3	o	30.09	+ 09	55	54	0	N	2	o	1	59	48	-	-	-
Nairn	30.01	58	NN	3	o	30.11	+ 09	55	52	+ 1	NN	2	o	1	59	51	-	-	-
Aberdeen	29.99	57	NNW	1	c	30.06	+ 08	57	52	0	N	4	b	1	61	48	0.02	-	-
Leith	29.98	58	E	2	c	30.05	+ 09	61	55	- 3	E	1	b	*	65	53	0.03	-	-
Shields	30.00	58	NE	1	c	30.05	+ 05	55	54	+ 1	NNW	1	m	1	60	?	-	-	-
Scarborough	29.99	58	N	2	o	30.06	+ 08	53	52	- 7	N	5	f	4	64	53	0.00	-	-
York	30.00	61	NE	1	c	30.04	+ 05	55	53	0	NNW	1	o	*	69	52	-	-	-
Nottingham	29.96	67	SSE	1	b	30.05	+ 06	62	58	+ 1	SSH	2	b	*	78	53	-	-	-
Ardrossan	29.97	66	NNW	2	b	30.07	+ 09	61	56	+ 2	NE	2	b	m	72	48	-	-	-
Greencastle	30.03	62	NNE	2	b	30.12	+ 14	55	52	- 3	N	1	o	*	66	45	-	-	-
Donaghadee	30.01	61	NN	2	b	30.11	+ 11	58	55	0	NN	4	b	3	63	54	-	-	-
Kingstown	30.01	64	Z	0	b	30.11	+ 11	57	54	- 2	NNW	4	b	3	65	53	-	-	-
Holyhead	29.99	60	N	2	b	30.07	+ 08	59	58	+ 3	N	4	b	3	64	55	-	-	-
Liverpool (Bidston)	29.97	64	N	1	c	30.05	+ 07	62	58	+ 2	Z	0	b	1	67	54	-	-	-
Valencia	29.92	63	E	3	o	30.11	+ 25	64	57	+ 4	Z	0	b	1	65	50	-	-	-
Roche's Point	29.96	61	ESE	4	o	30.09	+ 14	60	55	+ 3	NE	3	b	3	67	55	-	-	-
Pembroke	29.96	64	N	2	b	30.04	+ 06	60	55	+ 1	ENE	1	b	0	69	54	-	-	-
Portishend	29.93	69	N	2	b	30.03	+ 05	58	56	+ 1	N	3	b	3	78	51	-	-	-
Scilly	29.91	62	ESE	5	o	30.03	+ 08	63	58	+ 5	ENE	4	c	2	63	57	0.04	-	-
Plymouth	29.96	62	SE	2	o	30.03	+ 03	62	57	+ 5	NE	2	b	*	66	54	-	-	-
Hurst Castle	29.94	67	SW	3	b	30.03	+ 07	63	61	- 1	NE	2	b	2	71	52	-	-	-
Dover	29.96	62	E	3	b	30.04	+ 10	63	59	- 1	NNE	1	c	0	66	55	-	-	-
London	29.94	66	SE	2	b	30.04	+ 09	62	57	+ 3	W	2	o	*	73	50	-	-	-
Oxford	*	*	*	*	*	30.05	+ 08	58	56	+ 4	Z	0	b	*	69	50	-	-	-
Cambridge	29.95	65	NE	1	c	30.04	+ 08	57	55	+ 1	Z	0	o	*	71	50	-	-	-
Yarmouth	29.99	63	NE	2	b	30.02	+ 05	60	54	+ 1	NN	2	b	2	64	53	-	-	-
The Helder	*	*	*	*	*	29.92	+ 01	60	57	- 1	NNW	2	c	*	*	*	0.04	-	-
Cape Gris Nez	29.95	63	ENE	3	b	30.06	+ 11	63	57	+ 4	NE	1	b	1	66	52	-	-	-
Jersey	29.99	62	S	1	o	30.04	+ 02	63	61	+ 3	E	2	o	2	64	54	0.07	-	-
Brest	29.99	?	SW	3	f	30.03	- 03	63	63	+ 2	E	2	o	3	63	59	1.26	-	-
L'Orient	29.98	61	S	1	f	30.00	- 02	63	63	+ 2	E	2	o	1	?	57	0.47	-	-
Rochefort	29.99	68	NNW	3	f	29.99	- 10	63	?	- 3	NNE	2	m	5	70	59	0.04	-	-
Biarritz	29.93	70	NE	5	b	29.88	- 18	68	64	+ 4	E	3	b	3	72	61	-	-	-
Corunna	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
Brussels	*	*	*	*	*	30.01	+ 07	57	53	- 1	NE	2	c	*	66	50	-	-	-
Charleville	*	*	*	*	*	29.97	+ 10	57	*	- 4	ENE	1	o	*	*	*	-	-	-
Paris	29.91	71	SW	1	c	30.00	+ 04	61	57	- 2	NNE	1	b	*	*	*	-	-	-
Lyon	*	*	*	*	*	29.97	- 03	70	*	- 1	N	2	b	*	*	*	-	-	-
Toulon	29.80	75	N	5	b	30.01	+ 10	75	66	+ 9	Z	0	b	3	88	66	-	-	-

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

Bar.	Dry.	Wet.	Wind	Wes.	Sea.	Bar.	Dry.	Wet.	Wind	Wes.
Skudesnaes						Valencia				
Thurso						Scilly				
Scarborough						London				
Greencastle						Rochefort	30.02	68	?	NNW 3 0 3
Holyhead										

## EXPLANATION OF COLUMNS.

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

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

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

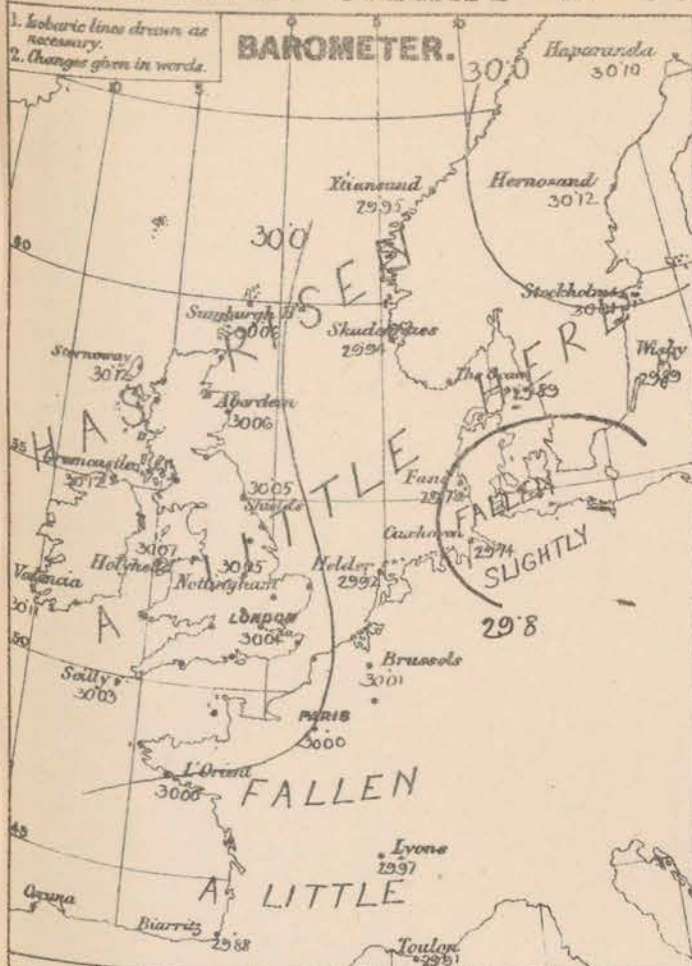
N.B.—The wind is said to "veer" when its direction changes with the sun, and to "back" when it shifts in the opposite direction.



# WEATHER CHARTS for 8 a.m. on Monday 29<sup>th</sup> JULY 1873.

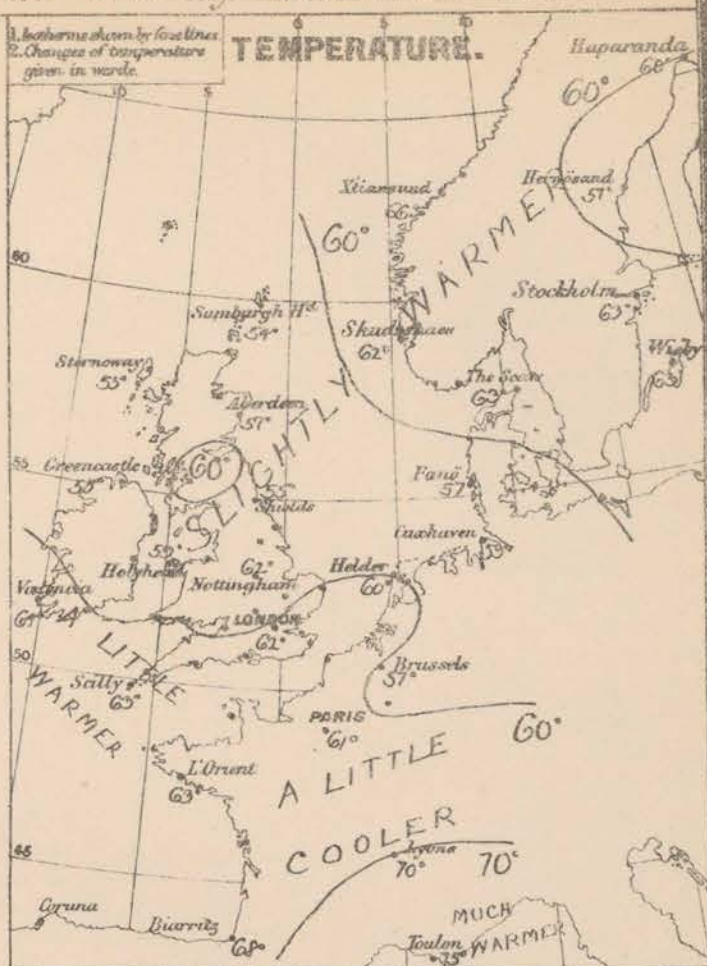
1. Isobaric lines drawn as necessary.
2. Changes given in words.

## BAROMETER.



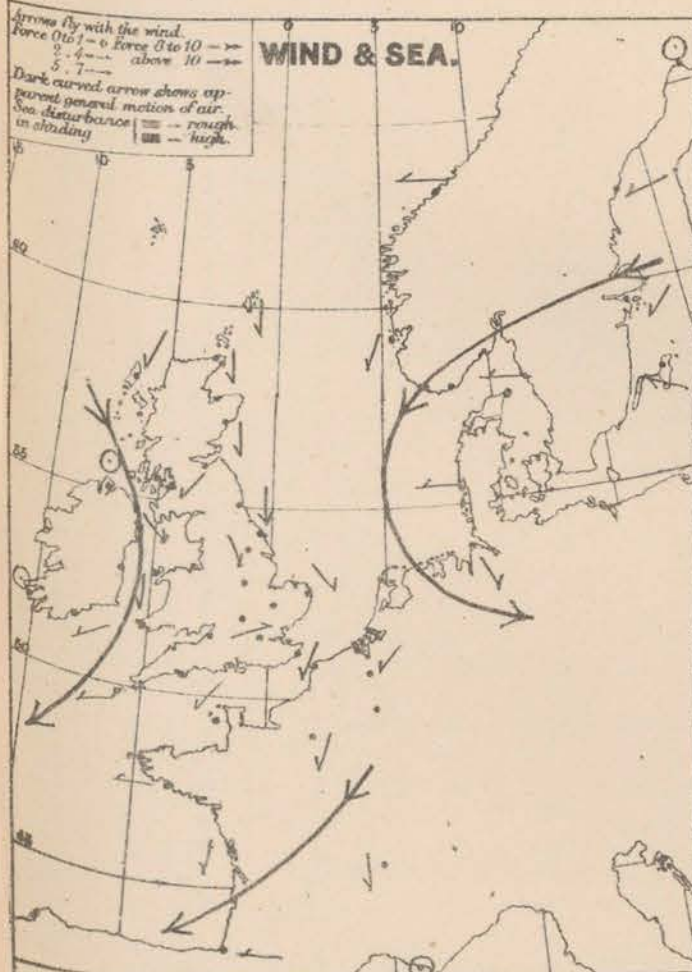
1. Isobars shown by fine lines.
2. Changes of temperature given in words.

## TEMPERATURE.



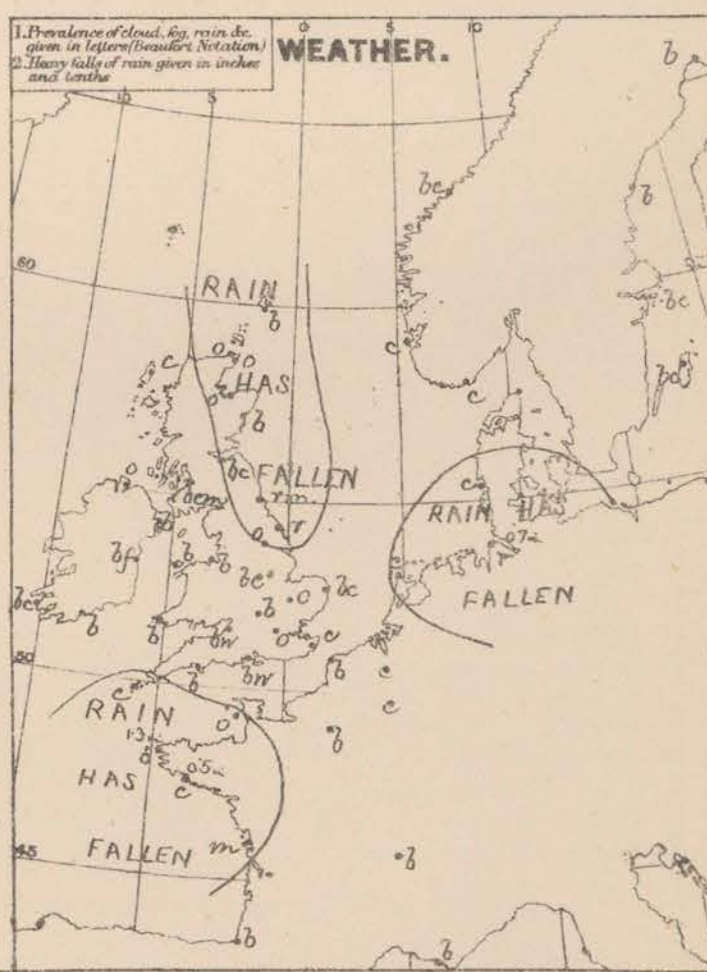
1. Arrows fly with the wind.
2. Force 0 to 10 —
3. 4 — above 10 —
4. 5, 7 —
5. Dark curved arrow shows apparent general motion of air.
6. Sea disturbance in standing — rough — high.

## 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 clear at most of our more western stations as well as over the greater part of Scotland, but in the north of that country on both shores of the North Sea and over France the sky is more or less cloudy. Rain is falling in the north-east of England and at Chesham. Temperature is not changing much; it varies over these Islands from 63° in the south to about 55° in the north; the maximum yesterday were 70° at Nottingham and Portishead and 73° in London. Wind is N'w over most northern coasts but draws into NE and E in the south and over the Channel and France. On the eastern shores of the North Sea a separate circulation exists, the wind being moderate or fresh from E over the south of Scandinavia and Denmark, but drawing into NW in North Germany. Sea is slight to smooth.

**Barometrical Indications.** Pressure is increasing slowly over the greater part of Western Europe but a slight decrease has occurred over Denmark and North Germany, where a shallow depression is shown. Readings are high both in the Gulf of Bothnia and off our west coasts.

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

R. H. SCOTT.  
Secretary.



# DAILY WEATHER REPORT JULY 30<sup>TH</sup> 1878.

STATIONS.	† YESTERDAY EVENING.						8 A.M. TO DAY.										PART 24 HOURS.		
	Barometer at 3.00 P.M. and Sea Level.	Temp. in shade.	WIND.		Weather.	BAROMETRE.		SHADE TEMP.			WIND.		Weather.	Sea. (0 to 2.)	SHADE TEMP.		Amount of Rainfall.		
			Dir.	Force. (0 to 12).		Reading at 8.00 P.M. and Sea Level.	Difference from 8 A.M. yesterday.	Dry.	Wet.	Difference from 8 A.M. yesterday.	Dir.	Force. (0 to 12).			Max.	Min.			
Haparanda ...	30.07	60	SW	2	bc	30.14	+ .04	62	57	+ 2	S	2	bc	*	70	48	-		
Hernösand ...	30.10	57	Z	0	bc	30.12	.00	63	55	+ 6	Z	0	bc	*	*	*	-		
Stockholm ...	30.05	57	ENE	2	bc	30.05	+ .04	63	57	0	NE	2	bc	*	*	*	-		
Wisby ...	29.93	55	ENE	4	bc	29.95	+ .06	61	57	- 2	NNE	2	bc	*	*	*	-		
Christiansund ...	30.01	63	ENE	1	bc	30.08	+ .13	58	55	- 8	SSW	2	c	1	70	52	-		
Skudesnaes ...	29.99	60	NNN	5	c	30.10	+ .16	63	59	+ 1	NN	2	bc	2	68	61	-		
Oxö (Ålansund) ...	29.98	62	NE	4	c	30.06	+ .17	62	58	0	NE	4	c	2	?	59	-		
Skagen (The Seaw) ...	29.93	63	NE	3	0	30.04	+ .15	60	55	- 3	ENE	4	bc	4	68	54	0.16		
Fanö ...	29.94	59	ENE	2	c	29.95	+ .17	62	60	+ 5	ENE	3	bc	*	?	54	0.04		
Cuxhaven ...	29.92	?	W	2	0	29.93	+ .19	61	59	+ 2	W	1	0	*	63	55	0.03		
Sumburgh Head ...	30.08	53	N	2	0	30.29	+ .23	52	50	- 2	NN	1	0	1	58	49	-		
Stornoway ...	30.15	56	Z	0	0	30.23	+ .11	58	54	+ 3	Z	0	c	0	58	51	-		
Thurso ...	30.17	56	NNN	1	bc	30.28	+ .17	55	52	0	Z	0	0	2	62	48	-		
Wick ...	30.18	56	NE	1	bc	30.27	+ .18	54	52	- 1	NN	1	bc	0	62	46	-		
Nairn ...	30.17	58	Z	0	bc	30.26	+ .15	59	54	+ 4	Z	0	bc	0	65	52	-		
Aberdeen ...	30.13	59	N	1	c	30.27	+ .21	56	51	- 1	N	2	c	1	62	49	0.03		
Leith ...	30.12	60	SE	3	c	30.25	+ .20	58	55	- 3	SE	1	c	*	66	53	-		
Shields ...	30.09	60	NE	4	bc	30.23	+ .18	58	55	+ 3	N	4	0	3	62	53	0.14		
Scarborough ...	30.05	59	NNN	5	c	30.18	+ .12	60	56	+ 7	N	6	c	5	61	52	0.14		
York ...	30.08	62	N	2	bc	30.21	+ .17	60	57	+ 5	NNN	2	bc	*	67	53	0.08		
Nottingham ...	30.08	57	N	1	bc	30.21	+ .16	63	58	+ 1	N	3	bc	*	71	48	-		
Ardrossan ...	30.10	63	NNN	1	c	30.25	+ .18	62	56	+ 1	E	2	bc	1	67	52	-		
Greencastle ...	30.16	60	NNN	2	bc	30.26	+ .14	58	55	+ 3	N	1	c	*	63	49	-		
Donaghadee ...	30.14	60	N	5	bc	30.27	+ .16	59	57	+ 1	ENE	3	bc	2	64	53	-		
Kingstown ...	30.14	64	N	4	c	30.27	+ .16	57	55	0	N	3	bc	2	64	54	-		
Holyhead ...	30.11	60	N	4	c	30.24	+ .17	61	58	+ 2	NNE	2	bc	1	64	55	-		
Liverpool (Bidston) ...	30.08	63	NNN	2	bc	30.23	+ .18	58	55	- 4	Z	0	c	1	67	54	-		
Valencia ...	30.15	66	N	2	bc	30.25	+ .14	62	57	- 2	Z	0	bc	1	69	52	-		
Roche's Point... ..	30.14	66	ESE	2	bc	30.23	+ .14	57	54	- 3	NNE	2	bc	2	72	54	-		
Pembroke ...	30.09	63	N	3	bc	30.18	+ .14	59	56	- 1	NE	2	bc	1	68	58	-		
Portishead ...	30.03	68	N	3	bc	30.18	+ .15	59	55	+ 1	NNE	4	bc	4	74	50	-		
Scilly ...	30.08	64	NNE	3	bc	30.18	+ .15	63	59	0	NNE	4	c	3	67	60	-		
Plymouth ...	30.06	66	SSW	2	0	30.16	+ .13	64	59	+ 2	E	4	c	*	72	56	-		
Hurst Castle ...	30.03	69	NNN	3	bc	30.16	+ .13	62	58	- 1	ENE	2	bc	2	71	54	-		
Dover ...	30.05	63	NE	2	bc	30.11	+ .07	59	55	- 4	NNN	3	bc	2	?	53	0.04		
London ...	30.07	62	NN	2	0	30.15	+ .11	59	55	- 3	NNN	2	bc	*	74	46	-		
Oxford ...	*	*	*	*	*	30.19	+ .14	58	55	0	N	1	0	*	69	56	-		
Cambridge ...	30.06	61	N	1	bc	30.16	+ .12	59	57	+ 2	NNN	1	0	*	69	49	-		
Yarmouth ...	30.02	59	NNN	3	bc	30.08	+ .06	62	58	+ 2	NN	4	c	3	63	54	0.19		
The Helder ...	*	*	*	*	*	29.92	.00	61	59	+ 1	NNN	2	c	*	*	*	0.04		
Cape Gris Nez ...	30.06	59	NE	3	0	30.11	+ .05	59	57	- 4	NNN	4	0	3	70	55	0.04		
Jersey ...	30.06	67	NE	1	bc	30.17	+ .13	64	59	+ 1	NE	2	bc	2	70	55	-		
Brast ...	30.09	73	N	3	bc	30.16	+ .13	59	57	- 4	ENE	3	bc	3	73	54	-		
L'Orient ...	30.01	68	W	3	bc	30.12	+ .12	63	57	0	ENE	3	bc	2	77	57	-		
Rochefort ...	30.06	75	NE	3	bc	30.04	+ .05	66	?	+ 3	NE	4	bc	3	88	57	-		
Biarritz ...	29.92	73	ENE	4	bc	29.97	+ .09	72	66	+ 4	ESE	3	bc	3	86	66	0.63		
Corunna ...	*	*	*	*	*			*	*		*	*	*	*	*	*	*		
Brussels ...	*	*	*	*	*	30.01	.00	58	56	+ 1	W	4	0	*	65	51	0.08		
Charleville ...	*	*	*	*	*	29.96	- .01	57	*	- 2	N	1	bc	*	*	*	*		
Paris ...	29.99	72	N	3	bc	30.12	+ .12	59	54	- 2	NNE	3	0	*	*	*	-		
Lyons ...	*	*	*	*	*	30.00	+ .03	72	*	+ 2	NNN	6	0	*	*	*	*		
Toulon ...	29.87	58	W	5	bc	29.96	+ .05	73	66	- 2	W	1	c	3	84	66	-		

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

	Bar.	Dry.	Wet.	Wind.	Wen.	Sea.		Bar.	Dry.	Wet.	Wind.	Wen.	Sea.		
Skudesnaes ...	29.95	68	61	NN	4	c	2	Valencia .....	30.14	68	60	NNN	2	bc	3
Thurso ...	30.16	59	57	N	2	c	3	Scilly .....	30.08	66	59	NE	4	bc	3
Scarborough ...	30.05	59	54	N	4	bc	4	London .....	30.02	67	65	N	1	c	*
Greencastle ...	30.14	61	55	N	2	bc	*	Rochefort ...	29.97	86	?	NE	3	bc	3
Holyhead .....	30.11	61	56	N	4	bc	3								

Pressure has continued to increase since the morning except in London, where the barometer has fallen somewhat under the influence of the German depression. Wind remains N<sup>W</sup>, and the weather generally fine.

### 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.

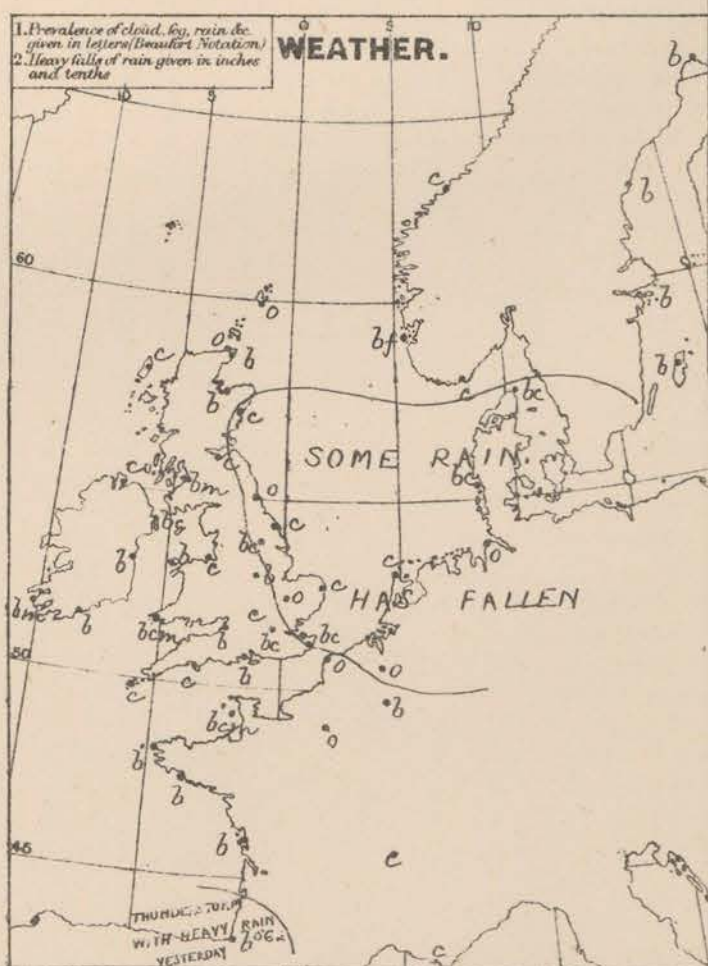
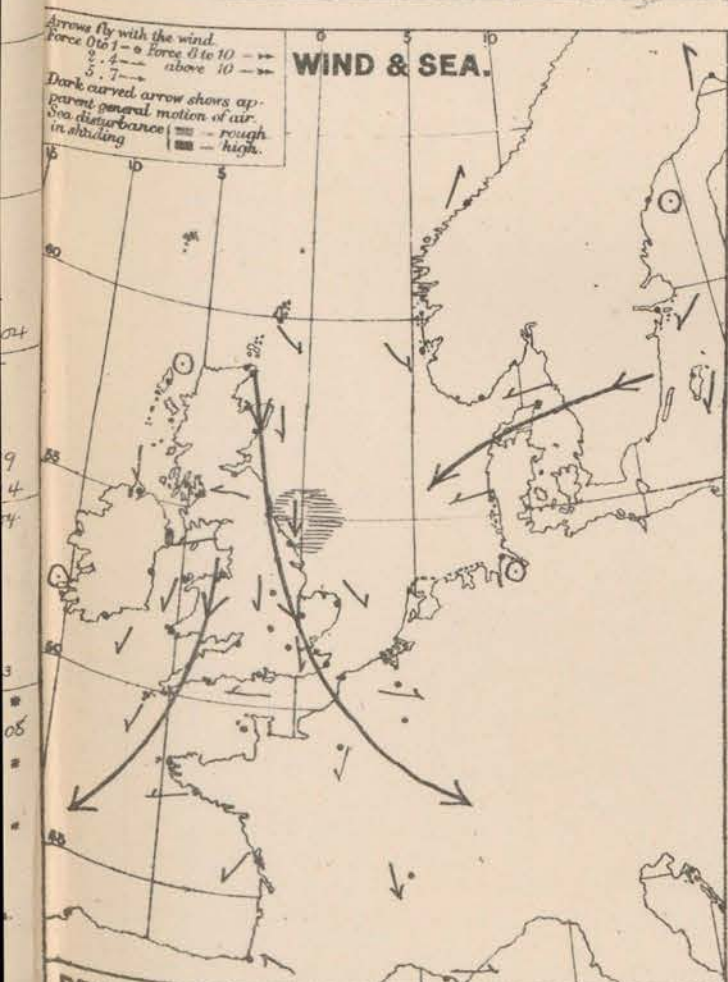
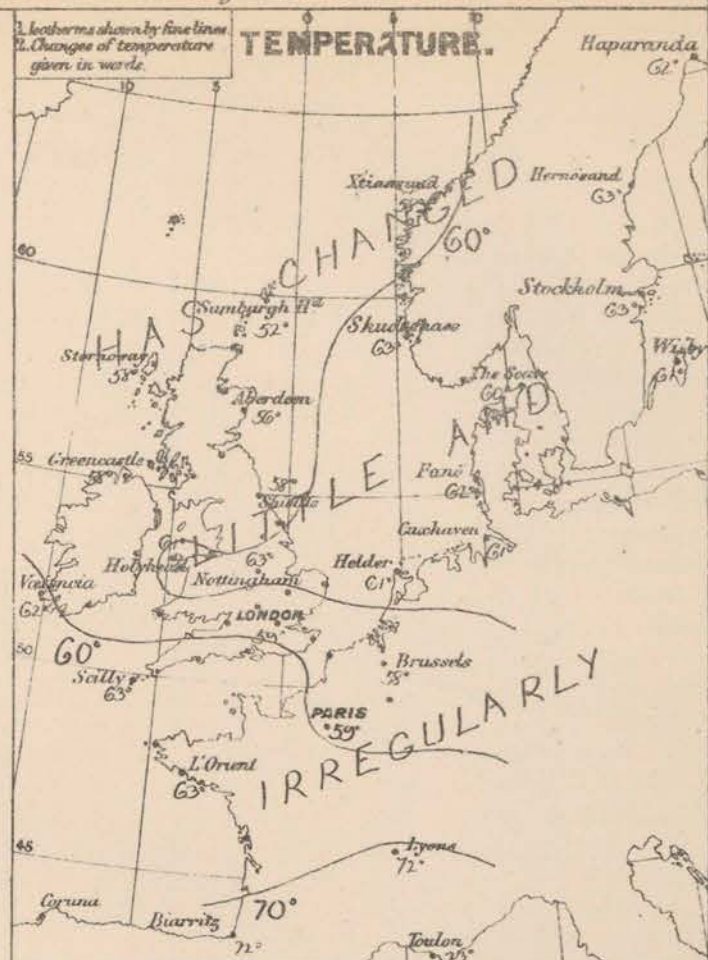
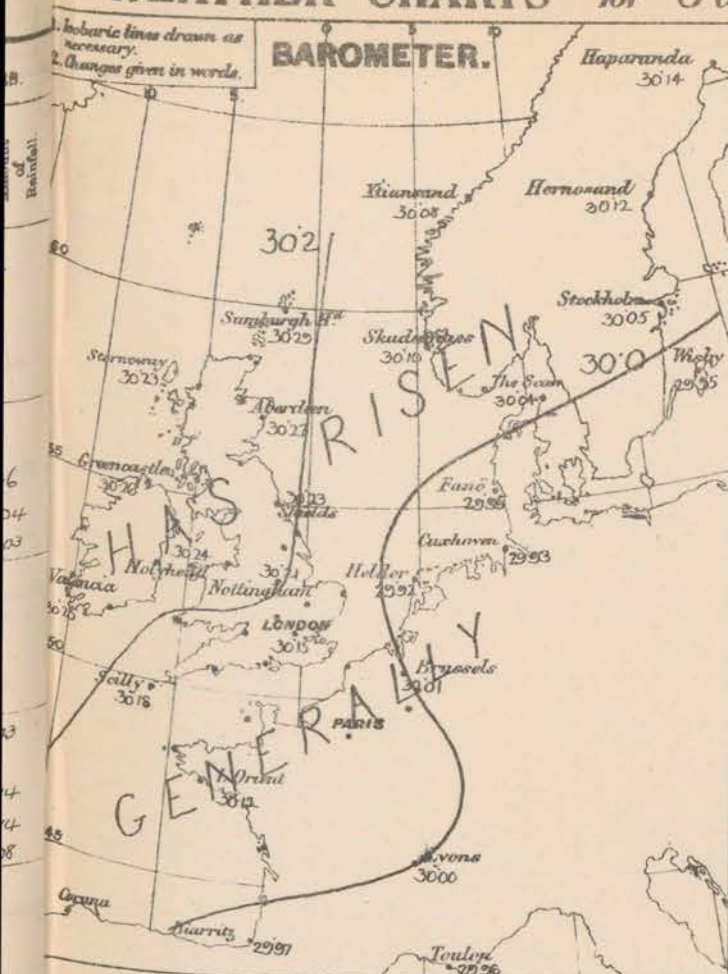
\* AN ASTERISK is inserted in all places for which information is not usually received.

† The evening observations are taken at 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 Tues-day 30<sup>TH</sup> JULY 1878.*



**REMARKS.** Weather is clear over France, at our south western stations and in Sweden but is rather cloudy elsewhere; haze is reported from Valencia and Jersey, fog at Bordeaux. Rain has fallen in the east of England as well as over Denmark and North Germany, but the amounts are everywhere small; at Biarritz, however, a thunderstorm has occurred, and 0.6 in. of rain has been measured. Temperature has changed little and irregularly; it varies over these Islands from  $64^{\circ}$  at Plymouth to  $54^{\circ}$  at Wick. During yesterday the maxima in the shade were a little above  $70^{\circ}$  at all our southern stations, while at Rochefort the thermometer rose to  $88^{\circ}$ , and that at Biarritz to  $86^{\circ}$ . Wind is from the N.<sup>W</sup> (NW to NE) on all coasts; it is very light in force in the north but is moderate in the south, and blows fresh at harbours. Sea is slight or smooth except off the Yorkshire coast.

Barometrical Indications. Pressure is increasing over the whole of Western Europe - most on our north east coasts. It is uniformly high over the west and north of the British Isles, and is lowest over North Germany.

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

JULY 31<sup>st</sup> 1878.

STATIONS.	† YESTERDAY EVENING.					8 A.M. TO DAY										PART 24 HOURS		
	Barometer at 32° F. and Sea Level.	Temp. in shade.	Wind.		Weather.	BAROMETER.		SHADE TEMP.			WIND.		Weather.	Sea. (0 to 9.)	SHADE TEMP.		Amount of Rainfall.	
			Dir.	Force. (0 to 12.)		Reading at 32° F. and Sea Level.	Difference from yesterday.	Dry.	Wet.	Difference from 8 A.M. yesterday.	Dir.	Force. (0 to 12.)			Max.	Min.		
Haparanda ...	30.10	63	S	2	bc	30.10	-.04	64	59	+ 2	Z	0	bc	*	70	48	-	
Hernösund ...	30.08	61	Z	0	bc	30.10	-.02	65	58	+ 2	Z	0	bc	*	*	*	-	
Stockholm ...	30.09	62	Z	0	bc	30.09	+ .04	65	57	+ 2	Z	0	bc	*	*	*	-	
Wickby ...	30.01	56	ENE	4	bc	30.00	+ .05	60	57	- 1	NNE	4	bc	*	*	*	-	
Christiansund ...	30.22	57	NNH	2	o	30.27	+ .19	55	54	- 3	NNH	2	o	2	59	52	-	
Skudesnaes ...	30.19	57	NNH	4	bc	30.27	+ .17	58	54	- 5	NNH	6	bc	3	64	57	-	
Oslo (Kjeller) ...	30.19	66	N	2	bc	30.21	+ .15	62	56	0	NNH	2	bc	1	66	57	-	
Skagen (The New) ...	30.09	63	Z	0	bc	30.19	+ .05	64	61	+ 4	Z	0	bc	0	73	55	-	
Fanø ...	30.11	59	NE	2	o	30.18	+ .23	70	64	+ 8	N	4	bc	*	70	52	0.04	
Cuxhaven ...	30.09	64	NNE	3	f	30.16	+ .23	65	63	+ 4	NNE	2	bc	*	?	59	0.04	
Sumburgh Head ?	30.30	54	NN	1	o	30.35	+ .06	54	52	+ 2	SSW	1	bc	1	56	46	-	
Stormoway ...	30.26	54	SSE	2	bc	30.31	+ .08	59	56	+ 1	SSE	2	bc	2	61	45	-	
Thurso ...	30.31	59	Z	0	bc	30.36	+ .08	60	55	+ 5	Z	0	bc	2	62	45	-	
Wick ...	30.33	58	E	1	bc	30.36	+ .09	60	57	+ 6	Z	0	bc	0	64	50	-	
Nairn ...	30.28	61	E	1	bc	30.37	+ .11	55	50	- 4	Z	0	bc	0	66	47	-	
Aberdeen ...	30.31	57	ENE	2	bc	30.38	+ .11	56	53	0	Z	0	bc	1	62	42	-	
Leith ...	30.28	61	E	3	bc	30.37	+ .12	58	55	0	NN	1	bc	*	65	44	-	
Shields ...	30.31	60	NE	4	bc	30.39	+ .16	57	55	- 1	NNH	1	bc	2	61	52	-	
Scarborough ...	30.28	58	N	4	o	30.39	+ .21	59	56	- 1	N	2	o	3	62	58	-	
York ...	30.30	60	N	1	o	30.39	+ .18	58	55	- 2	N	1	o	*	65	53	-	
Nottingham ...	30.29	63	N	3	o	30.40	+ .19	59	56	- 4	NE	3	o	*	68	53	-	
Ardrossan ... ?	30.32	60	SSW	1	bc	30.37	+ .12	63	57	+ 1	E	1	bc	0	69	57	-	
Greencastle ...	30.32	62	NNE	2	bc	30.35	+ .09	63	59	+ 5	SE	2	bc	*	71	47	-	
Donaghadee ...	30.31	61	SE	2	bc	30.39	+ .12	60	58	+ 1	SE	1	bc	0	66	49	-	
Kingstown ...	30.32	65	E	1	bc	30.38	+ .11	59	57	+ 2	ESE	1	bc	1	65	54	-	
Holyhead ...	30.29	62	NNE	3	bc	30.37	+ .13	62	57	+ 1	NNE	2	bc	1	66	55	-	
Liverpool (Biston) ...	30.28	65	NN	1	bc	30.39	+ .16	59	54	+ 1	ESE	1	bc	1	68	53	-	
Valencia ...	30.28	68	N	1	bc	30.31	+ .06	64	58	+ 2	Z	0	bc	1	71	52	-	
Roche's Point ...	30.32	64	ESE	3	bc	30.34	+ .11	61	56	+ 4	E	3	bc	3	74	54	-	
Pembroke ...	30.25	65	N	2	bc	30.35	+ .17	60	57	+ 1	E	2	bc	0	70	55	-	
Portishead ...	30.31	67	NNE	4	o	30.36	+ .18	60	55	+ 1	NNE	5	bc	4	74	51	-	
Billy ...	30.23	65	E	4	o	30.31	+ .13	65	62	+ 2	E	5	bc	3	66	60	-	
Plymouth ...	30.23	66	SH	2	bc	30.32	+ .16	62	57	- 2	ENE	4	bc	*	74	56	-	
Hurst Castle ...	30.26	70	NE	4	bc	30.32	+ .16	62	60	0	NNE	4	bc	4	73	52	-	
Dover ...	30.16	64	N	3	bc	30.30	+ .19	62	58	+ 3	N	4	bc	2	67	58	0.02	
London ...	30.23	64	N	3	o	30.33	+ .18	60	56	+ 1	NNE	2	o	*	70	56	-	
Oxford ...	30.23	61	N	3	o	30.35	+ .19	61	58	+ 2	NNE	2	o	*	68	64	-	
Cambridge ...	30.23	61	N	3	o	30.35	+ .19	61	58	+ 2	N	1	o	*	69	55	0.02	
Yarmouth ...	30.17	59	NNH	4	bc	30.33	+ .25	60	58	- 2	NNE	4	bc	3	63	57	0.01	
The Helder ...	30.23	61	N	3	bc	30.23	+ .31	64	61	+ 3	? N	2	bc	*	*	*	-	
Cape Gris Nez ...	30.16	61	N	6	o	30.29	+ .15	63	59	+ 4	NNE	4	o	3	68	57	0.04	
Jersey ...	30.24	66	NE	1	bc	30.33	+ .16	62	57	- 2	NE	3	bc	3	70	57	-	
Brest ...	30.26	75	ENE	3	bc	30.34	+ .18	59	57	0	E	3	bc	3	79	54	-	
L'Orient ...	30.16	70	ENE	3	bc	30.26	+ .14	59	57	- 4	ENE	4	bc	2	79	55	-	
Rochefort ...	30.09	71	NNE	4	bc	30.19	+ .15	63	59	- 3	NE	4	bc	3	?	61	-	
Biarritz ...	29.98	79	NNE	2	bc	30.07	+ .10	66	59	- 6	NE	4	bc	3	88	63	-	
Corunna ...	30.21	62	N	3	o	30.21	+ .20	62	59	+ 4	N	3	o	*	65	55	0.16	
Brussels ...	30.07	61	ENE	1	bc	30.07	+ .11	61	57	+ 4	ENE	1	bc	*	*	*	-	
Charleville ...	30.24	61	NE	4	bc	30.24	+ .12	61	57	+ 2	NE	4	bc	*	*	*	-	
Paris ...	30.13	66	NNH	4	bc	30.12	+ .12	67	61	- 5	N	7	bc	*	*	*	-	
Lyon ...	30.12	67	N	7	bc	30.12	+ .12	67	61	- 5	N	7	bc	*	*	*	-	
Toulon ...	29.93	70	N	4	bc	29.86	- .10	70	61	- 3	N	4	bc	3	79	64	-	

## YESTERDAY'S 3 P.M. REPORTS AND REMARKS.

	Bar.	Dry.	Wet.	Wind.	Wes.	Sea.		Bar.	Dry.	Wet.	Wind.	Wes.	Sea.		
Skudesnaes	30.17	60	57	NN	6	bc	3	Valencia	30.26	69	61	NNN	1	bc	2
Thurso	30.31	60	53	NNE	1	c	2	Scilly	30.22	66	60	NE	4	bc	2
Scarborough	30.25	60	56	N	4	o	4	London	30.18	67	61	N	2	c	*
Greencastle	30.28	63	56	NNE	1	bc	*	Rochefort	30.06	88	?	ENE	4	bc	3
Holyhead	30.28	60	59	NNE	4	bc	3								

*No change since the morning.*

## EXPLANATION OF COLUMNS.

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

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

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

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







## CORRECTIONS AND ADDITIONS TO THE REPORTS FOR JULY 1878

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

DATE.	STATIONS.	† YESTERDAY EVENING.					8 A.M. TO DAY.										PART 24 HOURS.		
		Barometer at 32° F. and Sea Level.	Temp. in shade.	WIND.		Weather.	BAROMETER.		SHADE TEMP.			WIND.		Weather.	Sea. (0 to 9.)	SHADE TEMP.		Amount of Rainfall.	
				Direc.	Force. (0 to 12).		Reading at 32° F. and Sea Level.	Difference from 8 a.m. yesterday.	Dry.	Wet.	Influence from 8 a.m. yesterday.	Direc.	Force. (0 to 12).			Max.	Min.		
1 <sup>ST</sup>	Corunna...	*	*	*	*	*	30.01	?	66	*	?	SW	3	cd	1	*	*	*	
2 <sup>ND</sup>	Cape Gris Neg	29.92	61	E NE	2	c	29.84	-0.09	57	55	-6	E	2	o	1	66	59	0.04	
3 <sup>RD</sup>	Corunna...	*	*	*	*	*	30.34	+2.22	64	*	-2	NW	3	c	1	*	*	*	
4 <sup>TH</sup>	Skagen...	29.68	54	NE	3	b	29.76	+2.6	60	56	+3	Z	0	b	0	64	48	0.04	
-	Corunna...	*	*	*	*	*	30.31	-0.03	66	*	+2	NE	3	b	1	*	*	*	
5 <sup>TH</sup>	Corunna...	*	*	*	*	*	30.19	-1.2	69	*	+3	NE	3	b	1	*	*	*	
6 <sup>TH</sup>	Corunna...	*	*	*	*	*	30.25	+0.6	66	*	-3	N	3	c	1	*	*	*	
8 <sup>TH</sup>	Corunna...	*	*	*	*	*	30.30	0.00	66	*	-4	N	3	o f	1	*	*	*	
9 <sup>TH</sup>	Stormoway...	30.00	61	NW	4	b	29.68	-3.6	58	56	0	SE	5	c	4	64	54	-	
-	Corunna...	*	*	*	*	*	30.33	+0.3	70	*	+4	NE	6	c	4	*	*	*	
10 <sup>TH</sup>	Stormoway	29.65	59	N	6	c	29.64	-0.4	56	55	-2	N NW	5	h	5	61	51	0.07	
11 <sup>TH</sup>	Corunna...	*	*	*	*	*	30.27	0.00	65	*	-1	E	6	c	5	*	*	*	
12 <sup>TH</sup>	Corunna...	*	*	*	*	*	30.23	-0.4	66	*	+1	NE	3	b	?	*	*	*	
13 <sup>TH</sup>	Corunna...	*	*	*	*	*	29.98	-2.5	66	*	0	SW	3	c	1	*	*	*	
15 <sup>TH</sup>	Corunna...	*	*	*	*	*	30.13	+0.9	65	*	+2	N	6	o h	5	*	*	*	
16 <sup>TH</sup>	Corunna...	*	*	*	*	*	30.09	-0.4	67	*	+2	NE	6	c	4	*	*	*	
17 <sup>TH</sup>	Corunna...	*	*	*	*	*	30.05	-0.4	70	*	+3	NE	1	b	1	*	*	*	
19 <sup>TH</sup>	Corunna...	*	*	*	*	*	30.25	?	66	*	?	Z	0	o f	2	*	*	*	
20 <sup>TH</sup>	Pembroke...	30.18	75	SW	1	b	30.12	-1.8	65	63	-3	E NE	1	c	1	80	64	0.63	
-	Corunna...	*	*	*	*	*	30.17	-0.8	67	*	+1	SW	1	o f	2	*	*	*	
22 <sup>ND</sup>	Corunna...	*	*	*	*	*	30.08	?	68	*	?	?	?	f	3	*	*	*	
23 <sup>RD</sup>	Corunna...	*	*	*	*	*	30.24	+1.6	67	*	-1	SW	3	o d	2	*	*	*	
27 <sup>TH</sup>	Corunna...	*	*	*	*	*	30.35	?	69	*	?	N	1	o f	2	*	*	*	
28 <sup>TH</sup>	Corunna...	*	*	*	*	*	29.97	?	68	*	?	NE	3	c	2	*	*	*	
30 <sup>TH</sup>	Corunna...	*	*	*	*	*	29.94	-0.3	73	*	+5	NE	3	c f	2	*	*	*	
31 <sup>ST</sup>	Corunna...	*	*	*	*	*	30.24	+3.0	77	*	+4	Z	0	b	2	*	*	*	



## 1. REPORTS RECEIVED TOO LATE FOR INSERTION DAILY (continue)

[illegible]