

METEOROLOGICAL OFFICE

LONDON.

DAILY WEATHER REPORTS.

1ST JULY - 31ST DECEMBER.

1888.

See Reg. Lond.

6/7/89

DAILY WEATHER REPORT.

July to December 1888.



DAILY WEATHER REPORT.

for Sunday 1st JULY.

1888.

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

STATIONS.	† YESTERDAY EVENING.					9 A.M. TO DAY.										PAST 24 HOURS.		
	Barometer at 32° F. and Sea Level.	Temp. in Shade.	WIND.		Weather.	BAROMETER.		SHADE TEMP.			WIND.		Weather.	Sea. (0 to 9.)	SHADE TEMP.		Amount of Rainfall.	
			Dir.	Force. (0 to 12.)		Reading at 32° F. and Sea Level.	Difference from 8 a.m. yesterday.	Dry.	Wet.	Difference from 8 a.m. yesterday.	Dir.	Force. (0 to 12.)			Max.	Min.		
SCANDINAVIA.																		
Haparanda ..	29.62	46	Z	0	0	29.61	- .04	54	47	+ 4	S	1	0	*	57	32	—	
Hernösand ...	29.64	49	Z	0	0	29.64	- .10	50	46	+ 6	ESE	2	0	*	64	36	—	
Stockholm ...	29.56	44	NE	4	7	29.57	+ .07	51	48	+ 6	NE	4	0	*	?	41	0.24	
Wisby ...	29.49	53	E	2	7	29.52	+ .13	50	48	- 7	E	6	7	*	63	50	0.02	
Bodö ...	29.71	46	N	2	0	29.66	- .03	44	41	- 1	WSW	4	7	2	48	43	—	
Christiansund...	29.73	50	NNE	4	0	29.76	+ .07	49	45	+ 1	NNE	3	0	2	55	45	—	
Skudesnaes ...	29.57	55	NW	6	0	29.68	+ .15	50	51	- 5	NW	2	0	2	65	55	—	
Christiania Fjord (Færd)	29.56	53	ENE	7	0	29.62	+ .12	54	47	+ 4	NNE	5	0	3	?	50	—	
Skagen (The Scaw)	29.46	49	NE	4	0	29.53	+ .15	50	48	0	NE	5	0	5	55	48	0.12	
Fanö ...	29.47	51	N	6	0	29.56	+ .37	52	50	- 3	NNW	6	0	*	63	50	0.04	
BRITISH ISLANDS.																		
Sumburgh Head	29.83	49	NNE	5	0	29.90	+ .17	48	44	+ 1	N	3	0	4	51	43	—	
Stornoway ..	29.97	50	NE	4	0	30.01	+ .13	48	47	- 1	NE	2	0	3	52	48	—	
Wick ...	29.90	48	N	4	0	29.98	+ .17	49	47	0	N	2	0	3	51	45	—	
Nairn ...	29.95	50	NNE	3	0	30.00	+ .18	48	46	- 1	N	1	0	2	55	44	—	
Aberdeen...	29.86	50	N	5	0	29.98	+ .26	48	44	0	NNW	3	0	2	53	46	—	
Leith ...	29.86	57	SE	3	0	29.99	+ .26	50	48	- 1	S	1	0	*	61	42	—	
Shields ...	29.82	51	N	4	0	29.99	+ .38	49	45	0	N	3	0	5	52	45	—	
Spurn Head ...	29.77	50	NNW	7	0	29.95	+ .36	50	47	+ 1	NNW	4	0	5	57	46	0.06	
York ...	29.82	50	N	4	0	30.01	+ .36	50	46	+ 1	N	1	0	*	58	42	—	
Loughborough	29.83	53	NNW	3	0	30.02	+ .34	50	46	- 1	NNW	2	0	*	60	40	—	
Ardrossan ...	29.82	61	NW	2	0	30.00	+ .26	52	50	- 3	SW	1	0	1	64	43	—	
Malin Head ...	29.92	53	NNW	4	0	29.99	+ .17	53	50	+ 3	NNW	1	0	3	54	48	—	
Mullaghmore ...	29.92	55	NNW	5	0	30.00	+ .14	55	50	+ 2	Z	0	0	1	57	42	—	
Belmullet ...	29.98	53	N	4	0	29.99	+ .08	55	51	+ 2	SE	1	0	*	57	47	—	
Donaghadee ...	29.89	58	N	5	0	30.02	+ .24	53	50	+ 1	ESE	4	0	3	60	47	—	
GERMANY.																		
Barrow-in-Furness	29.83	58	NN	1	0	30.00	+ .32	51	47	0	SE	1	0	*	59	44	—	
Liverpool (Bidston)	29.85	56	NNW	2	0	30.01	+ .31	54	50	-	SSE	1	0	2	59	49	—	
Holyhead ...	29.88	53	Z	0	0	30.02	+ .31	59	54	+ 6	NNW	1	0	1	59	46	—	
Parsonstown ...	29.91	65	NNW	1	0	30.02	+ .14	54	51	+ 1	Z	0	0	*	67	41	—	
Valencia ...	29.96	59	N	3	0	30.02	+ .12	56	53	+ 4	SW	1	0	1	61	45	0.01	
Roche's Point...	29.88	68	NNW	3	0	30.02	+ .20	58	55	+ 2	SE	1	0	1	69	53	—	
Pembroke ...	29.89	56	NNW	3	0	30.04	+ .28	56	52	+ 3	NNW	1	0	0	58	46	—	
Scilly ...	29.92	58	NNW	2	0	30.06	+ .28	59	57	+ 2	SW	1	0	3	59	53	—	
Prawle Point ...	29.83	61	NW	3	0	30.05	+ .82	58	52	- 4	SE	1	0	1	62	46	—	
Jersey ...	29.84	59	NNW	3	0	30.07	+ .34	58	54	0	ENE	2	0	2	62	52	0.03	
Hurst Castle ...	29.78	64	NNE	3	0	30.06	+ .35	53	51	0	NNE	1	0	0	66	44	0.02	
Dungeness ...	29.72	59	E	3	0	29.95	+ .31	51	47	- 4	N	4	0	3	62	49	—	
London ...	29.79	57	NW	2	0	30.01	+ .34	53	48	- 3	NNW	1	0	*	64	45	—	
Oxford ...	29.87	53	NNE	2	0	30.04	+ .35	49	45	- 6	NNW	1	0	*	64	45	—	
Cambridge ...	29.84	54	N	2	0	30.01	+ .34	53	47	0	N	2	0	*	60	46	—	
Yarmouth ...	29.70	50	NW	4	0	29.93	+ .36	50	47	0	NNW	4	0	4	52	46	0.20	
Cuxhaven ...	29.50	54	NNW	4	0	29.61	+ .22	55	54	- 1	NNW	6	0	*	59	52	0.10	
Berlin ...	29.55	59	NNW	4	0	29.56	+ .07	54	52	- 8	SW	3	0	*	70	52	—	
Wiesbaden ...	*	*	*	*	*	29.79	+ .20	57	54	- 2	W	1	0	*	70	52	0.08	
Munich ...	29.81	53	SW	3	0	29.84	+ .24	50	48	- 6	SW	5	0	*	63	48	0.35	
FRANCE & NETHERLANDS.																		
The Helder ...	29.58	55	NNW	4	0	29.80	+ .33	54	51	+ 1	NNW	4	0	3	55	52	0.20	
Brussels ...	*	*	*	*	*	29.88	+ .26	54	53	+ 3	NNW	4	0	*	57	?	0.08	
Cape Gris Nez...	29.75	55	NNW	4	0	29.90	+ .27	50	49	- 3	NNW	5	0	4	61	50	—	
Paris ...	29.78	61	NW	3	0	29.98	+ .25	54	51	- 1	NW	3	0	*	65	51	0.08	
Brest ...	29.97	58	NW	4	0	30.06	+ .19	57	54	0	NNW	3	0	2	72	62	0.08	
Lorient ...	29.90	60	NNW	5	0	30.06	+ .22	55	53	- 4	NNW	4	0	4	61	52	—	
Rochefort ...	30.00	62	NNW	8	0	30.10	+ .17	59	55	0	NW	5	0	2	64	54	0.08	
Belfort ...	29.80	58	SSE	1	0	29.93	+ .28	57	52	+ 1	W	3	0	*	64	43	0.12	
Lyons ...	29.88	59	ESE	1	0	29.96	+ .18	55	54	+ 1	SSW	1	0	*	64	53	0.51	
Nice ...	29.60	68	NW	3	0	?	?	69	65	?	W	1	0	0	82	57	—	
Perpignan ...	29.95	69	NW	5	0	30.05	+ .14	65	55	+ 2	NW	4	0	*	74	57	—	
Biarritz ...	30.07	59	NW	5	0	30.14	+ .12	61	57	- 1	NNW	7	0	3	66	59	—	
Corunna ...	*	*	*	*	*	30.14	+ .06	66	65	?	NNW	3	0	3	73	59	—	
Lisbon ...	30.12	67	NNW	7	0	30.15	+ .02	67	65	+ 2	N	4	0	2	75	63	—	

For Explanation of Columns, see p. 4.

2 Received too late for insertion in Libris on p. 2.

WEATHER CHARTS

for 8 a.m. on

Sunday, 1st July

1888.

BAROMETER, WIND & SEA.

(Explanation of Map)

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

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

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

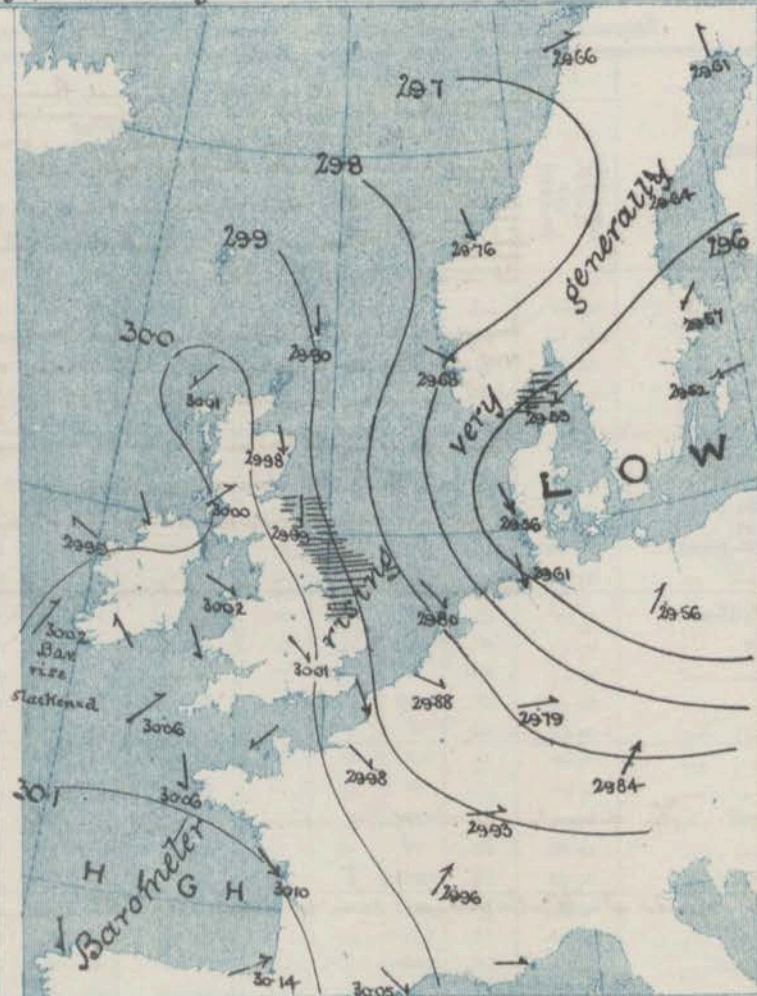
Sea Disturbance — where considerable, is shown thus.

■ = Rough. ■ = High.

MEAN HEIGHT of the BAROMETER

at 8 a.m. for the month of July
During the 15 Years 1871—1885.

STATIONS.	MEAN READINGS.
Sumburgh Head	29.794
Stornoway	29.797
Wick	29.810
Nairn	29.821
Aberdeen	29.831
Leith	29.860
Shields	29.876
York	29.910
Loughborough	29.936
Ardrossan	29.962
Donaghadee	29.981
Holyhead	29.918
Liverpool	29.913
Parsonstown	29.921
Valencia	29.939
Roche's Point	29.938
Pembroke	29.942
Scilly	29.984
Jersey	30.009
Hurst Castle	29.974
Dover	29.970
LONDON	29.967
Oxford	29.953
Cambridge	29.947
Yarmouth	29.943



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

Temperature — Isotherms are drawn for each 10° changes since previous morning are stated in words.

Weather — is shown by Letters of the Beaufort Scale.

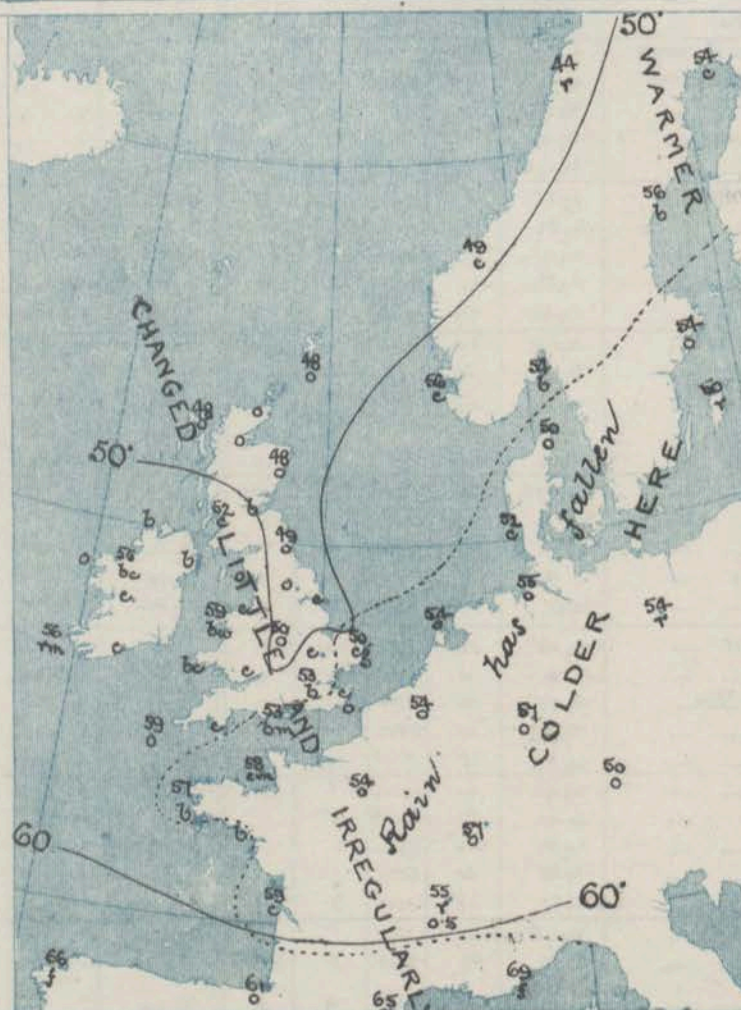
Rainfall — A dotted line separates the districts in which rain has fallen from those where there has been none. Falls of 0.5 in. or more, are quoted in figures.

MEANS OF TEMPERATURE IN SHADE.

AND RAINFALL.
for the month of July.

for the month of 1923.					
STATIONS.	TEMPERATURE.				RAINFALL. (Inches.)
	Daily Max.	Daily Min.	at 8 a.m.		
			Dry.	Wet.	
Sumburgh Head	57.8	48.3	53.6	52.0	2.09
Stornoway	60.2	49.5	56.0	54.0	3.02
Wick	62.2	49.2	56.1	53.8	2.25
Nairn	64.7	51.4	57.2	53.6	2.67
Aberdeen	64.4	51.1	58.0	54.4	2.74
Leith	67.1	51.7	58.6	55.3	2.84
Shields	64.4	52.9	58.6	55.4	2.63
York	68.5	52.1	59.4	56.2	2.57
Loughborough	72.1	53.0	62.0	58.2	2.34
Ardrossan	68.9	53.2	57.5	54.8	2.91
Donaghadee	68.1	51.6	57.4	55.6	2.67
Holyhead	68.9	54.7	58.2	55.9	2.32
Liverpool	66.1	54.4	59.6	55.9	2.99
Parsonstown	66.4	51.9	58.3	54.8	3.01
Valencia	64.1	53.6	58.7	56.3	3.91
Roche's Point	66.7	53.3	58.7	55.8	3.16
Pembroke	62.9	55.0	59.1	55.9	2.31
Scilly	64.5	56.3	60.1	58.0	2.29
Jersey	68.8	56.3	62.2	59.2	2.21
Hurst Castle	67.9	55.7	61.3	58.8	2.15
Dover	67.2	56.9	62.6	58.8	1.82
LONDON	73.0	54.1	62.3	58.1	2.17
Oxford	69.9	53.7	60.2	56.8	2.51
Cambridge	72.3	52.4	61.4	57.9	2.30
Yarmouth	66.8	55.2	61.2	58.1	2.68

NOTE — The Temperature means are for the 15 years 1871—85. the Rainfall means are mainly those for the 20 years 1866—85.



GENERAL SITUATION AT 8 A.M.

PRESSURE

Highest, { 30.1 in: and more over the Spanish Peninsula, and 30.0 in: to 30.1 in: in a ridge extending thence, in a N² direction over all but the eastern and northwestern part of our Islands.

Lowest, 29.5 in: to 29.6 in: in a depression lying over the eastern part of the Baltic, Sweden, Denmark and North Germany.

Gradients moderate over the North Sea, slight elsewhere. Barometer rising briskly in the east, but rise has apparently ceased in west.

TEMPERATURE

Highest, 63° at Aix, 67° at Lisbon, 66° at Geneva, 65° at Rhipignon, 59° at Bally, and Holyhead, 57° at Stockholm.

Lowest, 44° at Brest, 48° at nearly all the northern Scotch stations, 49° at Leith, 50° at Yarmouth.

It is above 60° at the stations in Spain and the south of France only, and is decidedly low for the time of year in the British Islands.

WIND

Very variable in the northern, and fresh to strong from NE. over the southern parts of Scandinavia.

NW over the North Sea, strong on the eastern shores, moderate on our coast.

NW in France, very variable and light in our Islands - shifting to the S² in Ireland.

WEATHER

Rainy at several stations lying to the eastward of the North Sea.

Fair over the British Islands and France, but dull in some places.

At Valencia rain is reported to have commenced falling again.

SEA

Still rather rough in the northwest and east, but going down; slight or smooth in the west and south.

PROBABLE CHANGES IN SYSTEM NOW PREVALENT

The discontinuance of the recovery of pressure in the west, the shifting of the wind to the S² there, and the motion of Cirrus clouds at Mullaghmore seem to show that the anticyclonic "ridge" will soon give way in the west.

FORECASTS

for the 24 hours ending at NOON on 2nd JULY 1888.

DISTRICTS.

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

FORECASTS.

NONE ISSUED

DISTRICTS.

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

WARNINGS

FORECASTS.

NONE ISSUED.

NONE ISSUED.

Note.—The South Cone, point downwards (∇) means that gales, or strong winds, are probable, at first from the Southward (from S.E. round by S. to N.W.) Should it appear likely that a gale beginning from between W. and N.W. is likely to veer towards N. or N.E., the North Cone is hoisted in preference to the South Cone.

The North Cone, point upwards (∇) means that gales, or strong winds, are probable, at first from the Northward (from N.W. round by N. to S.E.) Should it appear likely that a gale beginning from between E. and S.E. is likely to veer towards S. or S.W., the South Cone is hoisted in preference to the North Cone.

YESTERDAY'S 2 P.M. REPORTS.

	Bar.	Dry.	Wet.	Wind.	Wes.	Sen.		Bar.	Dry.	Wet.	Wind.	Wes.	Sen.
Skudesnaes ...	29.55	65	54	NNW	2	6	Holyhead ...	29.84	55	52	N	3	6
Stamburgh Head ...	29.80	50	45	NNE	4	6	Valencia ...	29.95	61	55	N	4	6
Stornoway ...	29.93	52	50	NE	3	4	Scilly ...	29.86	59	55	NNW	5	6
Aberdeen ...	29.82	52	46	N	5	4	Jersey ...	29.80			WNW	4	3
Shields ...	29.75	51	46	N	5	6	Dungeness ...	29.67	58	55	WNW	4	3
Androssan ...	29.79	63	57	NW	3	2	London ...	29.71	62	56	NW	3	6
Malin Head ...	29.90	52	48	N	4	3	Yarmouth ...	29.63	62	51	NW	5	4
Mullaghmore ...	29.92	57	52	NNW	5	3	Rochfort ...	29.98	62	59	NNW	8	3
Belmullet ...	29.96	56	51	NNE	3	4							

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

The reports for yesterday morning showed that the disturbances recently noticed over the North Sea were moving steadily to the eastward, so that the barometer was rising over the British Isles, Norway and France, while it was falling over the Baltic and Germany. For N winds were spreading gradually over Western Europe. A small disturbance had appeared over the Gulf of Genoa. The wind had become N and NW in direction over the British Isles, France and the Netherlands, and blew strongly at several of the more exposed stations, while it was NE over Scandinavia and the Gulf of Bothnia, and blew a gale in Norway. The weather remained cloudy and somewhat unsettled in most places, but was inclined to improve in the far west, with a falling thermometer. Temperature ranged from between 70° and 85° over the Mediterranean to less than 50° over Northern Europe and in many parts of the British Isles. The highest 8 a.m. readings were 88° at Cagliari, 87° at Algiers, 77° at Brindisi and Malta, 73° at Palermo, Rome, and Genoa, 71° at Naples, and 70° at Caserta; the lowest were 45° at Bodo (the Archangel and Finland reports are not to hand), 47° at Lumburgh H., 48° at Christiansund and Aberdeen, 49° at Stornoway and Spurn Head, and 50° at Yarmouth and Helsingland.

During the day the barometer continued to rise in the west and the weather dried up in most parts of Northwestern and Western Europe, as the disturbances over Denmark moved slowly to the eastward.

EXPLANATION OF COLUMNS GIVEN ON PAGE 1.

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

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

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

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

DAILY WEATHER REPORT.

for *Monday, 2nd July* 1888.
 Issued by the Meteorological Office, 116, Victoria Street, London. R. H. SCOTT, Secretary.

STATIONS.	† YESTERDAY EVENING.						8 A.M. TO DAY.										PAST 24 HOURS.		
	Barometer at 32° F. and Sea Level.	Temp. in Shade.	WIND.		Weather.	BAROMETER.		SHADE TEMP.			WIND.		Weather.	Sea (0 to 9.)	SHADE TEMP.		Amount of Rainfall.		
			Dirac.	Force. (0 to 12.)		Reading at 32° F. and Sea Level.	Difference from 8 a.m. yesterday.	Dry.	Wet.	Difference from 8 a.m. yesterday.	Dirac.	Force. (0 to 12.)			Max.	Min.			
SCANDINAVIA.																			
Haparanda ...	29.61	51	Z	0	c	29.66	+ .05	57	50	+ 3	Z	0	o	*	63	43	-		
Hernösand ...	29.62	57	SW	2	o	29.73	+ .09	50	46	- 6	N	2	o	*	64	37	-		
Stockholm ...	29.64	53	Z	0	c	29.67	+ .10	58	50	+ 4	Z	0	b	*	59	45	-		
Wisby ...	29.62	50	E	4	o	29.67	+ .15	55	51	+ 5	N	4	o	*	?	46	0.08		
Bodö ...	29.69	46	Z	0	o	29.69	+ .03	49	46	+ 5	N	2	b	1	?	43	-		
Christiansund...	29.78	47	WSW	6	f	29.75	- .01	47	44	- 2	WSW	5	o	3	50	43	0.12		
Skudesnaes ...	29.78	50	NW	8	c	29.85	+ .17	51	46	- 5	NW	5	c	4	57	50	-		
Christiania Fjord (Fjord)	29.69	59	WSW	4	b	29.67	+ .05	58	53	+ 4	N	2	b	1	66	?	-		
Skagen (The Scaw)	29.69	50	Z	0	b	29.70	+ .17	57	54	+ 7	WSW	1	b	2	66	50	-		
Fanö ...	29.80	52	NW	6	c	29.86	+ .30	53	48	+ 1	NW	6	c	*	57	50	-		
BRITISH ISLANDS.																			
Sumburgh Head	29.94	46	N	2	o	29.89	- .01	45	42	- 3	Z	0	o	2	49	41	-		
Stornoway ...	29.96	51	NE	3	bc	29.76	- .25	54	52	+ 6	S	3	o	3	54	43	-		
Wick ...	29.98	54	N	3	c	29.83	- .15	52	50	+ 3	SE	4	o	3	58	45	-		
Nairn ...	29.91	56	N	1	b	29.82	- .18	54	51	+ 6	Z	0	c	0	60	44	-		
Aberdeen...	30.01	57	SE	2	b	29.87	- .11	50	47	+ 2	SE	2	c	2	58	44	-		
Leith ...	29.97	58	S	2	b	29.84	- .15	54	52	- 2	E	1	o	*	60	48	-		
Shields ...	30.01	51	E	3	b	29.88	- .11	49	46	- 3	S	2	o	3	55	44	-		
Spurn Head ...	30.04	63	N	3	b	29.91	- .04	54	52	+ 4	SSE	3	bc	4	54	48	-		
York ...	30.02	59	E	1	b	29.92	- .09	51	48	+ 1	SE	2	b	*	61	43	-		
Loughborough	30.02	66	WNW	1	bc	29.94	- .08	55	53	+ 5	SSE	3	rw	*	68	46	0.01		
Ardrossan ...	29.97	57	S	3	bc	29.78	- .22	58	53	+ 1	EHE	2	d.m	1	60	50	0.01		
Malin Head ...	29.91	55	EHE	1	om	29.65	- .34	54	53	+ 1	SSE	4	o	2	57	50	0.01		
Mullaghmore ...	29.91	61	S	4	om	29.62	- .38	55	54	0	E	5	ogm	3	63	52	0.16		
Belmullet ...	29.88	54	SE	3	r	29.55	- .44	56	56	+ 1	ESE	3	r	*	60	53	0.20		
Donaghadee ...	29.98	55	SW	3	bc	29.72	- .30	51	51	- 2	ESE	4	r	2	57	50	0.15		
GERMANY.																			
Barrow-in-Furness	30.01	57	SW	3	bc	29.82	- .18	58	52	+ 2	SE	4	cu	*	60	50	0.03		
Liverpool (Bidston)	30.02	56	WNW	1	bc	29.83	- .18	52	51	- 2	SE	4	r	3	63	52	0.18		
Holyhead ...	30.02	57	SSW	3	c	29.75	- .27	55	54	- 4	S	5	dq	4	60	51	0.30		
Parsonstown ...	29.97	58	Z	0	r	29.62	- .40	61	60	+ 7	Z	0	r	*	67	52	0.30		
Valencia ...	29.89	58	SE	5	rm	29.51	- .51	60	59	+ 4	ESE	2	rm	2	60	55	0.49		
Roche's Point...	29.97	57	SW	4	r	29.60	- .42	58	58	0	S	5	rm	4	59	56	1.15		
Pembroke ...	30.05	56	SW	2	o	29.75	- .29	56	56	0	S	5	rmq	4	59	51	0.87		
Scilly ...	30.07	59	SSW	2	op	29.77	- .29	59	59	0	SSW	7	r	5	63	56	0.47		
Prawle Point ...	30.11	56	W	3	o	29.95	- .10	54	50	- 4	S	6	r	6	60	49	0.28		
Jersey ...	30.13	61	WSW	3	og	30.05	- .02	59	56	+ 1	SSE	3	ogrm	3	64	56	0.02		
FRANCE & NETHERLANDS.																			
Hurst Castle ...	30.08	58	W	4	c	30.02	- .04	54	53	+ 1	SSW	5	r	1	64	53	0.01		
Dungeness ...	30.05	57	WSW	3	c	30.04	+ .09	56	54	+ 5	WSW	4	o	3	61	51	-		
London ...	30.05	65	SE	2	bc	30.01	.00	57	53	+ 4	SW	2	or	*	66	51	-		
Oxford ...	30.05	60	W	2	bc	29.98	- .06	51	50	+ 2	S	2	r	*	67	49	0.03		
Cambridge ...	30.06	58	N	1	b	29.98	- .03	57	55	+ 4	SSW	1	r	*	63	46	-		
Yarmouth ...	30.03	54	N	3	b	29.98	+ .05	57	56	+ 7	S	3	bc	3	57	45	-		
Cuxhaven ...	29.86	52	NW	6	r	29.97	+ 36	53	50	- 2	WNW	4	o	*	57	51	0.04		
Berlin ...	29.71	55	WNW	5	o	29.90	+ 34	53	49	- 1	WNW	5	o	*	63	52	-		
Wiesbaden ...	*	*	*	*	*	30.14	+ 35	53	?	- 4	NW	5	o	*	64	50	0.04		
Munich ...	29.94	49	W	2	c	30.16	+ 32	49	46	- 1	W	5	o	*	55	45	0.55		
PENINSULA.																			
The Helder ...	29.99	52	NW	4	c	30.05	+ .25	53	49	- 1	W	1	c	2	55	52	-		
Brussels ...	*	*	*	*	*	30.10	+ .22	55	54	+ 1	SW	3	o	*	56	47	-		
Cape Gria Nez...	30.04	59	N	3	bc	30.06	+ .16	57	55	+ 7	SW	5	m	3	61	50	-		
Paris ...	30.10	60	NW	3	b	30.17	+ .19	52	50	- 2	SW	3	b	*	63	44	-		
Brest ...	30.17	59	W	4	c	30.06	.00	59	54	+ 2	SSW	7	r	5	70	52	0.20		
Lorient ...	30.13	59	WNW	5	c	30.09	+ .03	59	58	+ 4	SSW	5	o	3	63	54	-		
Rocheport ...	30.18	62	WNW	5	b	30.21	+ .11	60	59	+ 1	S	4	c	2	66	52	-		
Belfort ...	30.06	58	W	3	c	30.19	+ .26	54	48	- 3	SW	1	c	*	63	41	0.04		
Lyons ...	30.07	62	NW	3	bc	30.21	+ .25	54	50	- 1	NW	1	b	*	66	50	0.08		
Nice ...	29.73	71	SE	3	b	29.93	+ .21	66	63	- 3	Z	0	c	2	75	?	-		
Perpignan ...	29.84	73	NW	4	b	30.17	+ .12	66	58	+ 1	N	4	b	*	74	60	-		
Biarritz ...	30.21	68	Z	0	b	30.18	+ .04	60	57	- 1	SE	4	b	1	70	54	-		
Corunna ...	*	*	*	*	*	30.17	+ .03	72	69	+ 6	E	1	o	0	75	59	0.04		
Lisbon ...	30.12	69	NW	8	b	30.17	+ .02	68	64	+ 1	N	5	b	2	81	61	-		

For Explanation of Columns, see p. 4.

† Received too late for insertion in *Thurs* m. p. 2.

WEATHER CHARTS

for 8 a.m. on Monday, 2nd July, 1888.

BAROMETER, WIND & SEA.

(Explanation of Map)

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

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

→ = forces above 10, → = forces 8 to 10,
→ = forces 5 to 7, → = forces 1 to 4,
⊙ = dead calm.

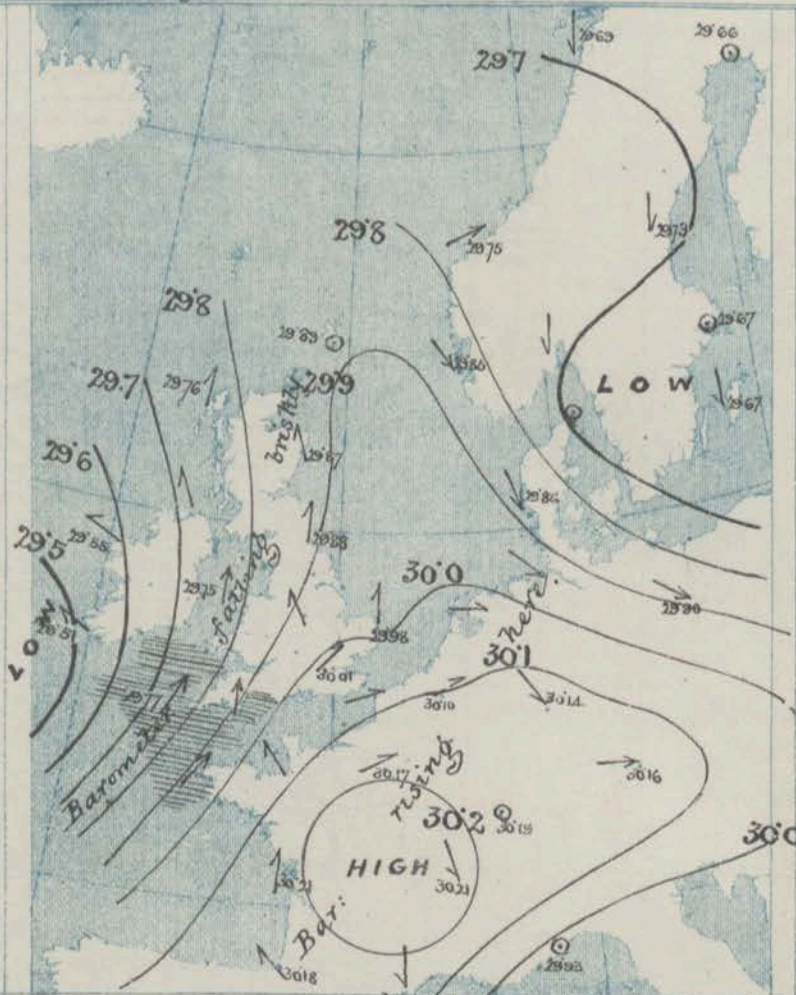
Sea Disturbance — where considerable is shown thus.

— Rough — High.

MEAN HEIGHT of the BAROMETER

at 8 a.m. for the month of July
During the 15 Years 1871—1885.

STATIONS.	MEAN READINGS.
Sumburgh Head	29.781
Stornoway	29.797
Wick	29.810
Nairn	29.821
Aberdeen	29.831
Leith	29.850
Shields	29.870
York	29.910
Loughborough	29.936
Ardrossan	29.962
Donaghadee	29.981
Holyhead	29.918
Liverpool	29.913
Parsonstown	29.921
Valencia	29.939
Roche's Point	29.938
Pembroke	29.942
Selly	29.984
Jersey	30.009
Hurst Castle	29.974
Dover	29.970
LONDON	29.967
Oxford	29.953
Cambridge	29.947
Yarmouth	29.943



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

Temperature — Isotherms are drawn for each 10° changes since previous morning are stated in words.

Weather — is shown by letters of the Beaufort Scale.

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

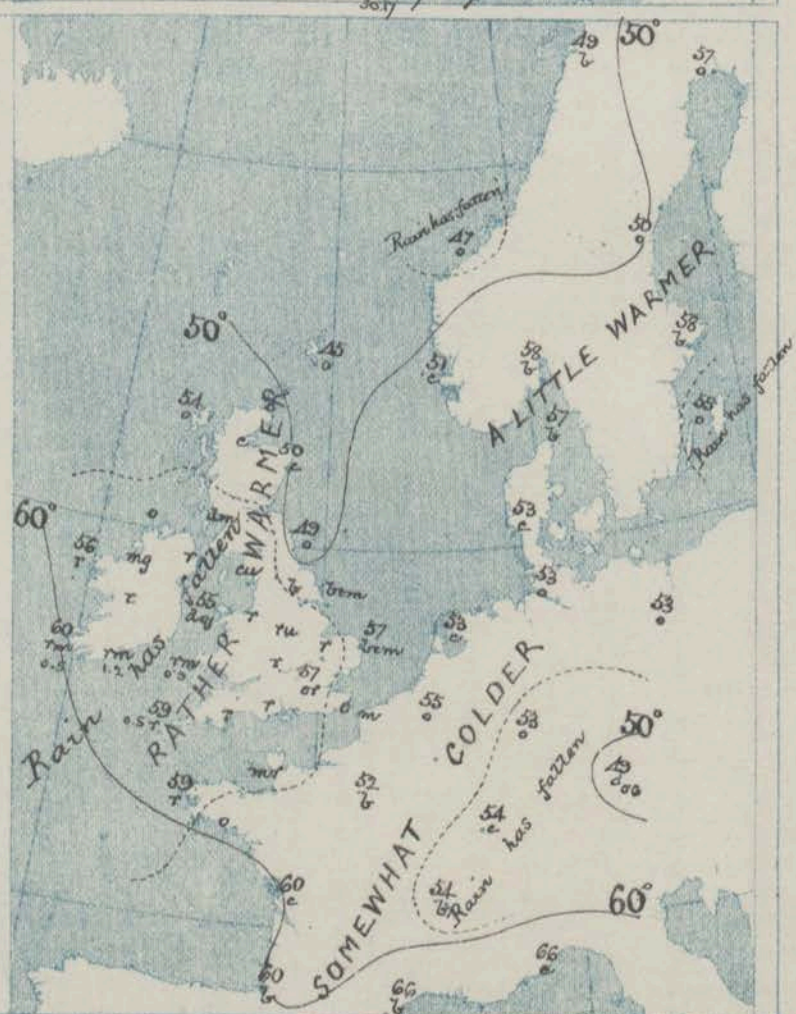
MEANS OF TEMPERATURE IN SHADE.

AND RAINFALL.

for the month of July.

STATIONS	TEMPERATURE.				RAINFALL. (Inches)
	Daily Max.	Daily Min.	at 8 a.m. Dry	Wet	
Sumburgh Head	57.8	48.3	53.0	52.0	2.09
Stornoway	60.2	49.5	56.0	54.0	3.02
Wick	62.2	49.2	56.1	53.8	2.25
Nairn	64.7	51.4	57.2	53.6	2.57
Aberdeen	64.4	51.1	58.0	54.4	2.74
Leith	67.1	51.7	58.6	55.3	2.84
Shields	64.4	52.9	58.6	55.4	2.63
York	68.5	52.1	59.4	56.2	2.67
Loughborough	72.1	53.0	62.0	58.2	2.34
Ardrossan	63.9	53.2	57.5	54.8	2.91
Donaghadee	63.1	51.6	57.4	55.6	2.67
Holyhead	63.9	54.7	58.2	55.9	2.32
Liverpool	66.1	54.4	59.6	55.9	2.99
Parsonstown	66.4	51.3	58.3	54.8	3.91
Valencia	64.1	58.6	58.7	56.3	3.91
Roche's Point	66.7	58.3	58.7	55.8	3.16
Pembroke	62.9	55.0	59.1	55.9	2.31
Selly	64.5	56.3	60.1	58.0	2.29
Jersey	68.8	56.3	62.2	59.2	2.21
Hurst Castle	67.9	55.7	61.8	58.3	2.15
Dover	67.2	56.9	62.6	58.8	1.82
LONDON	73.0	54.1	63.3	59.1	2.17
Oxford	69.9	53.7	60.2	56.8	2.51
Cambridge	72.3	52.4	61.4	57.9	2.30
Yarmouth	66.8	55.2	61.2	58.1	2.68

NOTE — The Temperature means are for the 15 years 1871—85, the Rainfall means are mainly those for the 10 years 1866—85.



GENERAL SITUATION AT 8 A.M.

PRESSURE

Highest, 30.1 in. to 30.2 in. over Western Germany, France, and Spain; and 29.9 in. to 30.0 in. in a "ridge" over the North Sea.
 Lowest, About 29.5 in. off the west of Ireland.
 Gradients somewhat steep over our southwest coast and over Brittany, moderate in the northwest, slight in the east.
 Barometer falling decidedly in the west and southeast, rising over the North Sea.

TEMPERATURE

Highest, 68° at Lisbon, 66° in the south of France, 61° at Pauwotown, 60° at Rochefort and Valencia.
 Lowest, 45° at Lumburgh Head, 47° at Christiansund, 48° at Rode, Skids, and Munich, 50° at Aberdeen, 51° at Dniprograd and 52° at Paris.
 It has risen considerably in the east and north of our Islands since yesterday, but is still low. It is very low over Germany.

WIND

SE^{ly}, moderate, in the northwest and north. S^{ly}, light, in the east of Great Britain.
 S^{ly}, fresh, in St. George's Channel. SW^{ly}, strong, at the mouth of the English Channel.
 SW^{ly}, moderate in Belgium and the south of England, NW^{ly} fresh in Denmark and the southwest of Norway.

WEATHER

Fair over the North Sea and our east coast — but looks unsettled in the northwest.
 Fine and bright over southern and central France — dull in Germany.
 Very rainy over Ireland and England; the fall at Roches Point 1.15 in.; at Lambrook 0.89 in.

SEA

Though at the mouth of the Channel, moderate on our west coast, slight in the southeast and east, smooth over Bay of Biscay.

PROBABLE CHANGES IN SYSTEM NOW PREVALENT

The general appearance is very unsettled; the new depression in the west seems to be of a somewhat complex character, and a great deal of wet weather is likely to be experienced in all districts, with thunder in some places.

FORECASTS

for the 24 hours ending at NOON on 3rd JULY 1888.

DISTRICTS.

FORECASTS.

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

S^{ly} and SE^{ly} winds, freshening, with rain.
 SW^{ly} and S^{ly} winds, moderate to fresh; rainy, thunder locally.

DISTRICTS.



FORECASTS.

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

SE^{ly} winds, moderate, with, rainy.
 SW^{ly} winds, strong to fresh, rainy.
 Varying S^{ly} breezes, rainy, changeable.

WARNINGS

NONE ISSUED.

Note.—The South Cone, point downwards () means that gales, or strong winds, are probable, at first from the Southward (from S.E. round by S. to N.W.) Should it appear likely that a gale beginning from between W. and N.W. is likely to veer towards N. or N.E., the North Cone is hoisted in preference to the South Cone.
 The North Cone, point upwards () means that gales, or strong winds, are probable, at first from the Northward (from N.W. round by N. to S.E.) Should it appear likely that a gale beginning from between E. and S.E. is likely to veer towards S. or S.W., the South Cone is hoisted in preference to the North Cone.

YESTERDAY'S 2 P.M. REPORTS.

	Bar.	Dry.	Wet.	Wind.	Wea.	Sea.		Bar.	Dry.	Wet.	Wind.	Wea.	Sea.
Skudesnes ...	29.72	57	52	NW 7	6	3	Holyhead ...	30.01	58	53	SSW 1	c	1
Sumburgh Head ...	30.00	52	50	NW 1	c	2	Valencia ...						
Stornoway ...							Scilly ...						
Aberdeen ...							Jersey ...	30.12	64	56	SW 3	6	3
Shields ...							Dungeness ...	30.01	58	54	NW 3	c	2
Ardrossan ...							London ...						
Malin Head ...	29.95	56	53	E 2	6c	1	Yarmouth ...						
Mullaghmore ...							Rochefort ...	30.18	64	58	NW 5	6	2
Belmullet ...	29.93	59	54	NW 2	0	*							

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

The reports for yesterday morning showed that a great recovery of pressure was in progress over western Europe, and that the readings varied from 30.1 ins. and more over Spain, and from between 30.0 ins. and 30.1 ins. over the western and northwestern parts of the British Islands to about 29.5 ins. in a series of depressions - lying over the Baltic, and another over Hungary. The wind had consequently shifted to the NW^{ly} over the North Sea, France and the eastern parts of Great Britain, accompanied by colder but improving weather. Over the Baltic and Gulf of Bothnia it was E^{ly} to NE^{ly}, the weather wet and unsettled, while in Germany it was W^{ly} and SW^{ly}, and the weather showery. Thunderstorms had occurred over Austria on the previous night. In the west of the British Islands however, the wind was drawing into SE and S, and though the weather was fine in most places, rain had again begun to set in at Valencia. Temperature was very low for the time of year in most parts of western and central Europe, but high in Algeria. The 8 a.m. readings ranged from 89° at Biskra (Algeria) 79° at Brindisi, 77° at Cagliari, 75° at Malta, 72° at Palermo, 70° at Livorno, 69° at Nice, and 66° at Corunna, to 44° at Bodo, 45° at Archangel, 48° at Sumburgh Head and Aberdeen, and 50° at Wick, the Scaw, Falmouth and Manich. Later in the day rainy weather spread to all our west and southwest coasts, and in some places the fall was heavy.

SUMMARY OF CHANGES IN THE WEATHER OVER THE BRITISH ISLANDS AND THEIR NEIGHBOURHOOD FROM THE 24th TO THE 30th JUNE 1888.

The weather during this week has been of a rainy, changeable character. Temperature, after rising to between 80° and 88° in many parts of England on Monday, decreased greatly, so that at the end of the week the readings were several degrees below the average for the time of year. Thunderstorms occurred except in the far North, and the wind after shifting to S and SW again became N^{ly} at all stations. On Sunday^{24th} the barometer was highest (30.3 ins. and more) over the northeast of Scotland and west of Norway, lowest (29.9 ins. and less) in a shallow depression over the Bay of Biscay, while a V-shaped secondary extended thence in an easterly direction over France. The main depression and its secondaries moved slowly to the northwest carrying with them the unsettled weather already referred to, but were so modified that at 8 a.m. on the 27th the V-shaped system had disappeared, and only the main system lay off the northwest of Ireland. This moved eastwards, and, passing over the North Sea on Monday carried the rainy weather to Denmark but was followed at once by N^{ly} winds and rather cold weather in the North, which extended, later on, to the southern stations. The weather after continuing showery in our Island for some time improved slowly, and the week closed with N^{ly} breezes, cold, dry air, and a general but fitful clearing of the sky.

EXPLANATION OF COLUMNS GIVEN ON PAGE 1.

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

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

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

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

DAILY WEATHER REPORT.

for Tuesday, 3rd July 1888.
 Issued by the Meteorological Office, 116, Victoria Street, London. R. H. SCOTT, Secretary.

Issued by the Meteorological Office, No. 1, Whitehall Palace, London, W. 1, on the day																			
STATIONS.	+ YESTERDAY EVENING.						8 A.M. TO DAY.										PAST 24 HOURS.		
	Barometer at 32° F. and Sea Level.	Temp. in Shade.	WIND.		Weather.	Reading at 32° F. and Sea Level.	BAROMETR.		SHADE TEMP.			WIND.		Weather.	Sea. (0 to 2.)	SHADE TEMP.		Amount of Rainfall.	
			Dir.	Force. (0 to 12.)			Difference from 8 a.m. yesterday.	Dry.	Wet.	Difference from 8 a.m. yesterday.	Dir.	Force. (0 to 12.)	Max.			Min.			
SCANDINAVIA.	Haparanda ..	29.66	53	2	0	c	29.59	- 07	50	50	- 7	N	2	r	*	66	46	0.20	
	Hernösand ...	29.67	54	2	0	b	29.63	- 10	55	49	+ 5	NW	2	c	*	64	48		
	Stockholm ...	29.66	54	SSW	2	0	29.63	- 04	57	51	- 1	N	2	c	*	68	46	0.08	
	Wisby ...	29.78	53	SW	2	b	29.66	- 01	54	51	- 1	W	4	b	*	66	50		
	Bodö ...	29.73	48	NW	2	b	29.74	+ 05	46	42	- 3	WSW	2	bc	1	50	43		
	Christiansund...	29.50	49	WNW	3	bc	29.68	- 07	51	46	+ 4	ESE	4	b	2	52	43		
	Skudesnaes ...	29.73	51	NW	4	b	29.50	- 25	55	50	+ 4	SSE	2	c	3	55	?		
	Christiania Fjord (Fjord)	29.73	51	S	4	b	29.60	- 07	54	51	- 4	ESE	5	0	3	64	?		
	Skagen (The Scaw)	29.66	49	W	5	b	29.61	- 09	53	49	- 4	SW	2	0	2	64	48		
	Fanö ...	29.79	50	SSW	2	c	29.50	- 36	53	53	0	S	4	r	*	57	50	0.20	
BRITISH ISLANDS.	Sumburgh Head	29.77	46	ESE	1	0	29.52	- 37	49	45	+ 4	ESE	5	c	5	50	44		
	Stornoway ...	29.47	58	NE	4	c	29.42	- 34	50	49	- 4	E	6	0	5	60	47		
	Wick ...	29.51	50	SE	6	0	29.46	- 37	49	48	- 3	E	6	0	6	56	45		
	Nairn ...	29.50	56	NE	2	c	29.38	- 44	48	47	- 6	E	2	r	3	67	44	0.70	
	Aberdeen...	29.60	49	SE	4	r	29.34	- 53	48	47	- 2	NE	6	rgu	6	54	48	1.27	
	Leith ...	29.44	56	SE	1	r	29.26	- 58	50	50	- 4	NE	3	r	*	60	48	0.72	
	Shields ...	29.57	52	SE	3	r	29.20	- 68	57	55	+ 8	WNW	2	0	3	57	47	0.45	
	Spurn Head ...	29.58	55	SSE	5	r	29.30	- 61	57	55	+ 3	WSW	6	cq/p	3	57	53	0.42	
	York ...	29.56	56	S	4	r	29.25	- 67	56	54	+ 5	WSW	6	r	*	59	49	0.59	
	Loughborough	29.58	56	SSE	4	r	29.44	- 50	58	54	+ 3	WSW	5	0	*	59	52	0.52	
GERMANY.	Ardrossan ...	29.36	56	ESE	2	r	29.29	- 49	58	52	0	2	0	opm	0	56	51	0.80	
	Malin Head ...	29.25	52	ESE	4	0	29.31	- 34	53	53	- 1	W	3	ofr	3	65	51	0.44	
	Mullaghmore ...	29.23	59	NW	3	r	29.41	- 21	55	53	0	WNW	5	og	4	60	53	0.73	
	Belmullet ...	29.33	56	WNW	3	0	29.46	- 09	53	53	- 3	WNW	2	0	*	60	53	0.63	
	Donaghadee ...	29.28	54	S	4	r	29.32	- 40	54	54	+ 3	W	4	r	3	55	50	0.97	
	Barrow-in-Furness	29.47	58	SE	5	0	29.29	- 53	54	53	+ 1	SW	6	r	*	59	52	1.24	
	Liverpool (Bidston)	29.41	59	SE	4	0	29.37	- 46	56	53	+ 4	WSW	8	0	5	60	52	0.81	
	Holyhead ...	29.31	57	S	6	r-m	29.43	- 32	55	53	0	WSW	5	oelm	5	59	52	0.81	
	Parsonstown ...	29.27	57	WSW	3	r	29.50	- 12	59	54	- 2	WSW	2	0	*	66	53	0.26	
	Valencia ...	29.57	58	W	5	om	29.61	+ 10	58	57	- 2	W	4	0	5	62	55	0.38	
FRANCE & NETHERLANDS.	Roche's Point...	29.46	59	W	7	c	29.60	- 00	60	57	+ 2	W	4	c	4	63	55	0.65	
	Pembroke ...	29.46	58	WSW	7	bc	29.56	- 19	56	55	0	WSW	5	bc	6	58	55	0.40	
	Seilly ...	29.72	60	W	8	c	29.71	- 06	58	57	- 1	WSW	5	0	6	62	54	0.10	
	Prawle Point ...	29.71	56	WSW	6	0	29.71	- 24	54	54	0	WSW	3	orm	3	57	52	0.25	
	Jersey ...	29.84	60	SW	6	0	29.81	- 24	59	57	0	WSW	4	ogm	4	61	56	0.32	
	Hurst Castle ...	29.71	56	SW	7	0	29.68	- 34	58	57	+ 4	WSW	8	om	6	58	53	0.86	
	Dungeness ...	29.60	55	WSW	5	r	29.62	- 42	56	55	0	WSW	6	0	6	58	54	0.30	
	London ...	29.70	57	SSE	5	0	29.60	- 41	59	56	+ 2	W	4	0	*	59	54	0.49	
	Oxford ...	29.59	59	SW	4	r	29.55	- 43	59	55	+ 8	SW	7	cq	*	60	51	0.81	
	Cambridge ...	29.68	55	S	3	r	29.48	- 50	62	56	+ 5	SW	4	bc	*	62	53	0.54	
PENINSULA.	Yarmouth ...	29.76	56	SSW	5	r	29.46	- 52	60	55	+ 3	WSW	6	cq	4	62	54	0.37	
	Cuxhaven ...	29.97	54	W	2	b	29.67	- 30	56	55	+ 3	SSW	4	r	*	58	53	0.18	
	Berlin ...	29.98	57	WNW	3	0	29.80	- 10	54	51	+ 1	SW	2	0	*	59	48		
	Wiesbaden ...	*	*	*	*	*	29.83	- 31	57	56	+ 4	SW	0	r	*	66	?	0.16	
	Munich ...	30.12	52	2	0	b	30.00	- 16	51	50	+ 2	SW	4	r	*	57	39	0.08	
	The Helder ...	29.80	56	S	3	r	29.57	- 54	57	55	+ 4	SW	5	0	4	63	53	0.32	
	Brussels ...	*	*	*	*	*	29.73	- 37	58	55	+ 3	SSW	5	0	*	67	55	0.12	
	Cape Gris Nez...	29.84	55	SW	7	r	29.69	- 37	56	55	- 1	W	8	c	6	63	55	0.24	
	Paris ...	30.00	61	SSW	3	0	29.80	- 37	60	57	+ 8	W	4	0	*	69	?	0.24	
	Brest ...	29.94	60	NW	5	0	29.90	- 16	59	57	0	W	5	r	5	72	59	0.16	
FRANCE & NETHERLANDS.	Lorient ...	29.94	62	W	7	bc	29.94	- 15	60	59	+ 1	W	4	c	5	63	57	0.20	
	Rochefort ...	30.09	65	SSW	5	0	30.07	- 14	62	60	+ 2	W	5	0	2	70	58		
	Belfort ...	30.06	60	W	1	0	29.96	- 23	59	54	+ 5	W	1	0	*	69	51	0.04	
	Lyons ...	30.11	65	E	1	c	30.02	- 19	60	56	+ 6	SSE	1	b	*	70	?		
	Nice ...	29.99	71	N	3	c	29.98	+ 05	68	59	+ 2	WNW	1	bc	0	77	59		
	Perpignan ...	30.05	76	NW	1	c	30.04	- 13	74	65	+ 8	N	3	0	*	82	60		
	Biarritz ...	30.06	71	W	4	c	30.11	- 07	63	61	+ 3	WNW	5	f	2	82	60		
	Corunna ...	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	
	Lisbon ...	30.19	68	WNW	4	b	30.20	+ 03	69	66	+ 1	N	4	0	2	82	63		

WEATHER CHARTS

for 8 a.m. on Tuesday, 3rd July

1888.

BAROMETER, WIND & SEA.

(Explanation of Map)

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

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

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

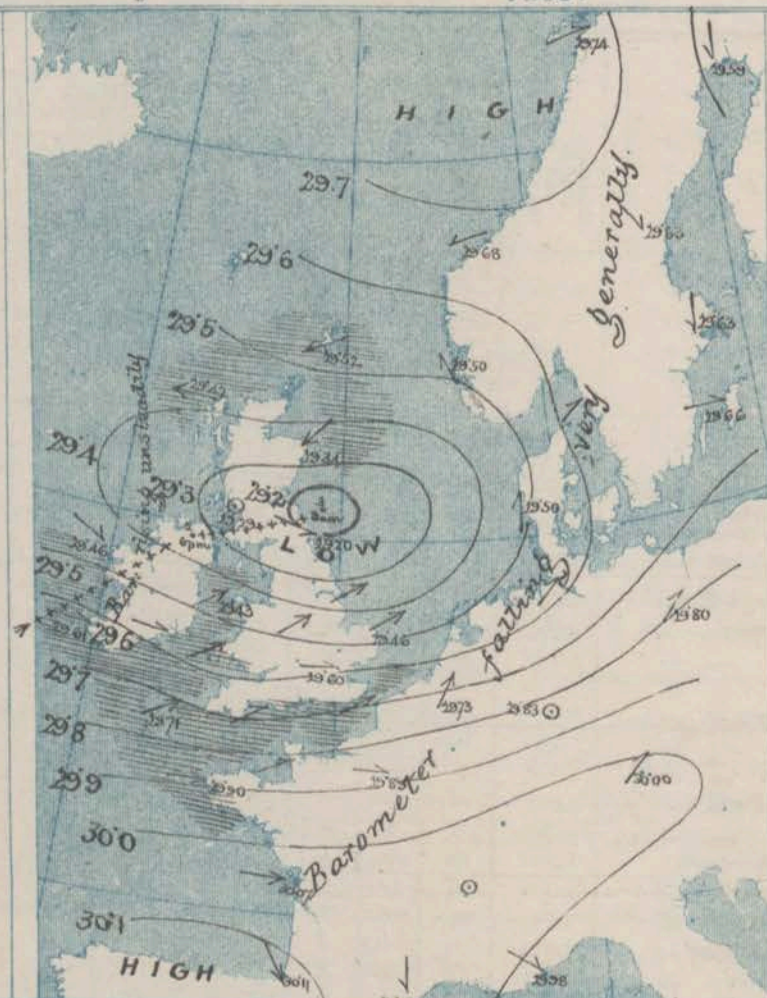
Sea Disturbance — where considerable is shown thus.

■ = Rough. ■ = High.

MEAN HEIGHT of the BAROMETER

at 8 a.m. for the month of July
During the 15 Years 1871—1885.

STATIONS.	MEAN READINGS.
Sumburgh Head	29.794
Stornoway	29.797
Wick	29.810
Nairn	29.821
Aberdeen	29.831
Leith	29.850
Shields	29.876
York	29.910
Loughborough	29.936
Ardrossan	29.962
Donaghadee	29.981
Holyhead	29.918
Liverpool	29.913
Parsonstown	29.921
Valencia	29.939
Roche's Point	29.938
Pembroke	29.942
Scilly	29.984
Jersey	30.009
Hurst Castle	29.974
Dover	29.970
LONDON	29.967
Oxford	29.953
Cambridge	29.947
Yarmouth	29.943



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

Temperature — Isotherms are drawn for each 10° changes since previous morning are stated in words.

Weather — is shown by Letters of the Beaufort Scale.

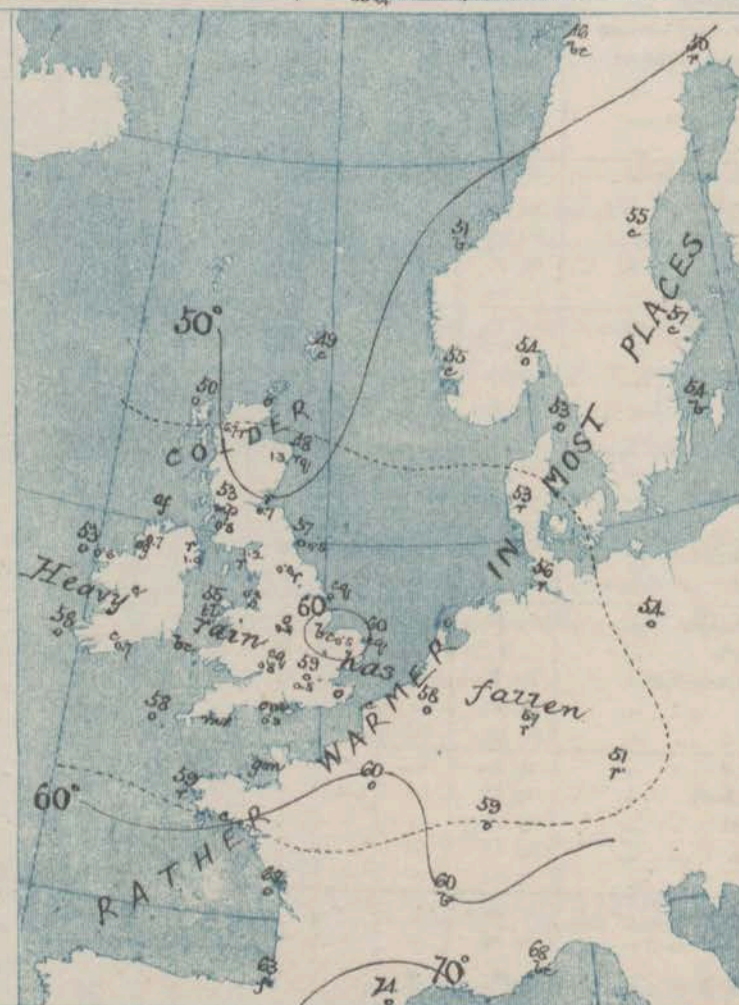
Rainfall — A dotted line separates the districts in which rain has fallen from those where there has been none. Falls of 0.5 in. or more, are quoted in figures.

MEANS OF TEMPERATURE IN SHADE.

AND RAINFALL.
for the month of July.

STATIONS.	TEMPERATURE.				RAINFALL. (Inches).
	Daily Max.	Daily Min.	at 8 a.m.		
			Dry.	Wet.	
Sumburgh Head	57.8	48.3	53.6	52.0	2.09
Stornoway	60.2	49.5	56.0	54.0	3.02
Wick	62.2	49.2	56.1	53.8	2.25
Nairn	64.7	51.4	57.2	53.6	2.57
Aberdeen	64.4	51.1	58.0	54.4	2.74
Leith	67.1	51.7	58.6	55.3	2.84
Shields	64.4	52.9	58.6	55.4	2.03
York	68.5	52.1	59.4	56.2	2.57
Loughborough	72.1	53.0	62.0	58.2	2.34
Ardrossan	63.9	53.2	57.5	54.8	2.91
Donaghadee	63.1	51.6	57.4	55.6	2.67
Holyhead	63.9	54.7	58.2	55.9	2.32
Liverpool	66.1	54.4	59.6	55.9	2.99
Parsonstown	66.4	51.9	58.3	54.8	3.01
Valencia	64.1	53.6	58.7	56.3	3.91
Roche's Point	66.7	53.3	58.7	55.8	3.16
Pembroke	62.9	55.0	58.1	55.9	2.31
Scilly	64.5	56.3	60.1	58.0	2.29
Jersey	68.8	56.3	62.2	59.2	2.21
Hurst Castle	67.9	55.7	61.3	58.8	2.15
Dover	67.2	56.9	62.6	58.8	1.82
LONDON	73.0	54.1	62.3	58.1	2.17
Oxford	69.9	53.7	60.2	56.8	2.51
Cambridge	72.3	52.4	61.4	57.9	2.30
Yarmouth	66.8	55.2	61.2	58.1	2.68

NOTE — The Temperature means are for the 15 years 1871—85, the Rainfall means are mainly those for the 10 years 1866—85.



GENERAL SITUATION AT 8 A.M.

PRESSURE

Highest, 30.1 ins: and more over Spain — 29.7 ins: and more over the northeast of Norway.
 Lowest, 29.2 ins: and less in a depression, the centre of which now lies off the Northumberland coast.
 Gradients for W. winds, rather steep in England, moderate in Ireland; moderate for E. winds in Scotland and the Shetland Isles.
 Barometer falling over the North Sea, everywhere in England and Ireland.

TEMPERATURE

Highest, 74° at Perpignan, 69° at Lisbon, 68° at Nice, 60° at Paris, Orient, and Rochepoint.
 Lowest, 46° at Bodo, 48° at Wick and Kairn, 49° at Lumburgh Head, and 50° at Haparanda, Leith and Stromsund.
 It is still low for the time of year except in Sweden and the south of Scotland.

WIND

Strong and squally from E. in Scotland and the Hebrides.
 Moderate W. in Ireland and France — strong to a gale from W. and S.W. in England and the Channel.
 Moderate S. in Denmark — variable in the north of Scandinavia.

WEATHER

Fine in the north of Norway and south of France, cloudy and unsettled elsewhere.
 Raining in many parts of our Islands, — with a thunderstorm at Holyhead.
 Much rain has fallen during the past 24 hours except in the Shetlands, Hebrides and Caithness, Fall in the north and northwest heavy.

SEA

Rough except off the east coast and over the Bay of Biscay.

PROBABLE CHANGES IN SYSTEM NOW PREVALENT

Although the depression is moving away to the eastward the recovery of pressure in the west is not of a very decided character. Changeable, squally, showery weather is therefore still probable in most districts, but with occasional bright intervals over Ireland and England.

FORECASTS

for the 24 hours ending at NOON on 4TH JULY

1888.

DISTRICTS.

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

FORECASTS.

NE^{ly} and E^{ly} winds, strong; cold, rainy.
 SW^{ly} and W^{ly} winds, strong to fresh; showery, squally, thunder locally.

DISTRICTS.

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

FORECASTS.

Same as No 0 and 1.

W^{ly} (SW to NW) winds, fresh to strong; squally, showery, bright intervals.

WARNINGS

The north cone was hoisted last evening in districts 0.1. and part of 2.

Note.—The **South Cone**, point downwards (↓) means that gales, or strong winds, are probable, at first from the Southward (from S.E. round by S. to N.W.) Should it appear likely that a gale beginning from between W. and N.W. is likely to veer towards N. or N.E. the **North Cone** is hoisted in preference to the South Cone.

The **North Cone**, point upwards (↑) means that gales, or strong winds, are probable, at first from the Northward (from N.W. round by N. to S.E.) Should it appear likely that a gale beginning from between E. and S.E. is likely to veer towards S. or S.W., the **South Cone** is hoisted in preference to the North Cone.

YESTERDAY'S 2 P.M. REPORTS.

	Bar.	Dry.	Wet.	Wind.	Wea.	Sea.		Bar.	Dry.	Wet.	Wind.	Wea.	Sea.
Skudesnaes ...	29.82	55	49	W. 6	6c	4	Holyhead ...	29.50	58	58	SSW 6	4q m	5
Sumburgh Head ...	29.84	46	43	ESE 1	0	2	Valencia ...	29.43	58	57	W 6	4 m	6
Stornoway ...	29.60	60	58	NE 4	6c	3	Scilly ...	29.61	62	60	WSW 8	c	6
Aberdeen ...	29.75	53	49	SE 3	0	2	Jersey ...	29.92	59	58	SSW 5	c	4
Shields ...	29.69	52	51	ESE 4	7	3	Dungeness ...	29.92	56	55	WSW 4	7	3
Ardrossan ...	29.55	56	56	E. 2	7	1	London ...	29.87	57	56	SSW 3	07	*
Malin Head ...	29.41	52	52	SE 4	0	3	Yarmouth ...	29.90	57	55	SSW 4	0 p	4
Mullaghmore ...	29.34	53	58	E. 4	7	2	Rocheport ...	30.17	68	63	SSW 5	c	2
Belmullet ...	29.36	59	58	N 2	7	*							

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

The reports for yesterday morning show that the high-pressure "ridge" found over the Bay of Biscay and British Islands on Sunday morning had moved eastwards to France, and was still travelling in an easterly direction, while a well-marked and somewhat important depression was advancing from the Atlantic to Ireland. The N^W winds of the previous day had disappeared completely and S^W (S to SE) winds had set in over our Islands and their neighbourhood, blowing strongly on our southwest coasts, but with only moderate force elsewhere. Very rainy weather was again spreading over the United Kingdom from the W^W, but was separated from the showers and N^W winds prevailing over the Baltic by a zone of fine weather which covered the greater part of France, the Netherlands, Germany and Denmark. Temperature showed some tendency to rise in the north and east, but was still low generally for the time of year. The morning readings ranged from between 65° and 80° over the Mediterranean, and from between 50° and 60° over our Islands to between 47° and 49° in the northwest of Norway. The highest values recorded were 82° at Biskra (Algeria), 80° at Cagliari, 79° at Constantinople, 74° at Bilbao, 72° at Girona and 70° at San Fernando; the lowest were 45° at Sumburgh Head, 47° at Christianiaund, 49° at Stornoway, Shields and Munich, 50° at Aberdeen, 52° at Leno, and 53° at Berlin.

Later in the day the rain became still more general, and moderate S^W to W^W gales at our S^W stations, were accompanied by E^W gales and strong winds in the north.

General Remarks on the Weather for 24 hours ended 8 am 30th June.

The reports for Friday morning showed that pressure was highest 29.9 ins. to 30.1 ins. over Spain, and that it exceeded 29.7 ins. over the northwest of Norway. Between these two areas of high pressure (i.e. over the North Sea, Denmark and the Baltic) lay a large and complex depression having two minima — one over the Baltic Provinces and the other over the Sound. The gradients were not steep, but while rather strong NE^W winds prevailed over the more northern countries, accompanied by fine weather, the further to the southwards were W^W and SW^W, and were accompanied by showery, unsettled weather. Temperature had gone down greatly over Germany and to a smaller extent over the north and east of our Islands, and was becoming low over Western Europe and North Germany. The highest individual values at 8 am. were 85° at Biskra (Algeria), 82° at Cagliari, 79° at Palermo, 75° at Malta, 73° at Linares and at Odessa, 72° at Nicolaitiff, 70° at Trieste, Kieff and Monaco, 69° at Lemberg, and 68° at Kiev; the lowest were 44° at Bodö and Uleaborg, 47° at Archangel, 48° at Christianiaund, 49° at Hornsund, Wick and Aberdeen, and 52° in the north of Ireland.

Later on the depression in the east continued to move eastwards and the weather over our Islands continued to improve gradually with N^W winds.

EXPLANATION OF COLUMNS GIVEN ON PAGE 1.

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

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

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

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

DAILY WEATHER REPORT.

for Wednesday 4th July 1883.
Issued by the Meteorological Office, 116, Victoria Street, London. R. H. SCOTT, Secretary.

† YESTERDAY EVENING.																		8 A.M. TO DAY.										PAST 24 HOURS.		
STATIONS.	Barometer at 32° F. and Sea Level.	Temp. in Shade.	WIND.			Weather.	BAROMETER.		SHADE TEMP.			WIND.		Weather.	Sea (0 to 2.)	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.												
SCANDINAVIA.	Haparanda ...	29.54	52	Z	0	C	29.59	+.00	55	50	+ 5	E	2	0	*	59	46	0.08												
	Hernösand ...	29.60	53	SSW	2	b	29.63	+.00	56	51	+ 1	SSW	4	b	*	65	41	0.04												
	Stockholm ...	29.64	53	SE	2	C	29.62	-.01	58	54	+ 1	SE	2	0	*	75	48	—												
	Wisby ...	29.69	53	SSE	2	C	29.64	-.02	60	56	+ 6	SSE	4	C	*	61	50	—												
	Bodö ...	29.68	46	NN	2	0	29.56	-.18	49	45	+ 3	N	2	b	1	49	43	—												
	Christiansund...	29.51	51	NE	6	b	29.39	-.29	53	49	+ 2	NE	4	b	3	55	46	—												
	Skudesnaes ...	29.38	57	ENE	6	a	29.28	-.22	59	52	+ 4	ENE	4	0	4	66	55	—												
	Christiania Fjord (Farder)	29.51	51	ESE	5	r	29.36	-.24	57	55	+ 3	ESE	6	r	3	59	54	0.59												
	Skagen (The Scaw)	29.41	56	S	4	0	29.34	-.27	55	54	+ 2	S	2	0	3	57	52	0.51												
	Fanö ...	29.40	56	S	6	r	29.36	-.14	55	54	+ 2	WSW	6	0	*	59	52	0.28												
BRITISH ISLANDS.	Sumburgh Head	29.46	50	ENE	5	b	29.39	-.13	51	47	+ 2	NE	4	b	5	53	45	—												
	Stornoway ...	29.44	52	NE	6	C	29.40	-.02	50	49	0	E	6	0	5	54	45	—												
	Wick ...	29.44	53	E	5	0	29.40	-.06	51	49	+ 2	NE	3	0	2	55	47	0.10												
	Nairn ...	29.42	50	E	2	0	29.38	-.00	50	49	+ 2	E	2	0	3	56	47	0.12												
	Aberdeen...	29.35	50	NNW	4	adm	29.35	+ .01	51	49	+ 3	N	2	adm	3	51	48	0.89												
	Leith ...	29.37	52	NE	2	r	29.33	+ .07	53	53	+ 3	NW	1	r	*	53	49	0.21												
	Shields ...	29.33	54	WNW	2	0	29.33	+ .13	58	54	+ 1	W	2	C	2	58	51	0.07												
	Spurn Head ...	29.39	59	W	5	C	29.41	+ .11	59	56	+ 2	WSW	3	b	2	60	54	0.03												
	York ...	29.26	56	W	4	r	29.39	+ .14	59	56	+ 3	WSW	3	U	*	59	50	0.09												
	Loughborough	29.44	63	WSW	4	C	29.46	+ .02	58	55	0	WSW	2	C	*	68	53	—												
GERMANY.	Ardrossan ...	29.39	52	Z	0	r	29.32	+ .03	53	52	0	SSW	1	0	1	53	51	0.10												
	Malin Head ...	29.35	54	W	3	op	29.26	-.05	52	52	—	1	SW	3	0	3	56	51	0.11											
	Mullaghmore ...	29.43	57	W	4	0	29.32	-.09	55	53	0	WSW	5	cp	3	60	53	0.01												
	Belmullet ...	29.45	57	WNW	2	C	29.35	-.11	55	52	+ 2	WNW	3	C	*	60	52	0.04												
	Donaghadee ...	29.41	59	W	3	C	29.33	+ .01	60	58	+ 6	WSW	3	b	2	63	52	0.02												
	Barrow-in-Furness	29.41	55	W	4	0	29.37	+ .08	54	54	0	SSW	3	0	*	57	53	0.30												
	Liverpool (Bidston)	29.45	58	W	4	0	29.42	+ .05	56	54	0	SW	2	0	3	61	54	0.26												
	Holyhead ...	29.47	56	SW	4	cpm	29.40	-.03	55	53	0	SW	4	cpm	4	62	53	0.04												
	Parsonstown ...	29.49	60	WSW	1	C	29.39	-.11	57	55	—	2	SW	2	r	*	65	54	0.23											
	Valencia ...	29.58	59	WSW	3	omv	29.44	-.17	58	57	0	WSW	2	C	3	62	54	0.13												
FRANCE & NETHERLANDS.	Roche's Point...	29.56	60	W	6	r	29.44	-.16	60	57	0	W	4	b	4	64	53	0.02												
	Pembroke ...	29.57	57	WSW	5	b	29.48	-.08	56	55	0	SW	3	b	3	58	54	—												
	Scilly ...	29.69	60	SW	4	om	29.54	-.17	59	58	+ 1	WSW	3	cpm	4	62	54	0.02												
	Prawle Point ...	29.71	55	SW	4	0	29.57	-.14	56	55	+ 2	WSW	3	cp	3	59	52	0.05												
	Jersey ...	29.80	60	WSW	6	om	29.64	-.17	60	57	+ 1	WSW	4	bm	3	63	56	0.23												
	Hurst Castle ...	29.65	58	WSW	8	omg	29.56	-.12	57	56	—	1	WSW	7	cpm	6	61	56	—											
	Dungeness ...	29.61	58	WSW	7	0	29.56	-.06	55	54	—	1	WSW	6	dgm	5	60	55	0.01											
	London ...	29.59	59	SW	3	cp	29.53	-.07	59	55	0	W	2	C	*	68	52	0.21												
	Oxford ...	29.59	58	SW	4	b	29.51	-.04	58	55	—	1	SW	3	C	*	65	53	0.02											
	Cambridge ...	29.50	63	WSW	3	C	29.49	+ .01	60	57	—	2	SW	1	C	*	69	57	0.03											
PENIN- SULA.	Yarmouth ...	29.48	62	WSW	4	cp	29.48	+ .02	59	55	—	1	WSW	4	b	2	65	54	0.02											
	Cuxhaven ...	29.58	57	WSW	3	r	29.55	-.12	59	58	+ 3	SW	5	r	*	60	54	0.10												
	Berlin ...	29.69	60	SW	2	0	29.66	-.14	60	58	+ 6	SW	3	r	*	66	54	0.04												
	Wiesbaden ...	*	*	*	*	*	29.73	-.10	60	57	+ 3	SW	2	r	*	70	57	0.14												
	Munich ...	29.90	59	SW	1	C	29.89	-.11	59	55	+ 8	SW	5	r	*	66	50	—												
	The Helder ...	29.49	58	SW	5	r	29.49	-.02	58	55	+ 1	SW	5	0	4	61	57	0.05												
	Brussels ...	*	*	*	*	*	29.63	-.10	58	56	0	SSW	4	r	*	64	56	—												
	Cape Gris Nez...	29.68	56	WSW	8	0	29.58	-.11	59	55	+ 3	W	7	0	5	59	51	—												
	Paris ...	29.81	62	SW	3	C	29.73	-.16	57	56	—	3	SW	3	0	*	69	56	0.39											
	Brest ...	29.88	58	W	5	f	29.75	-.15	57	55	—	2	WSW	3	0	5	72	52	—											
PENIN- SULA.	Lorient ...	29.91	60	W	5	0	29.72	-.22	58	56	—	2	W	4	0	6	63	55	0.16											
	Rocheport ...	30.06	64	WSW	7	0	29.88	-.19	58	57	—	2	W	7	r	2	72	54	0.04											
	Belfort ...	29.93	67	W	1	r	29.87	-.09	60	55	+ 1	W	1	0	*	71	56	0.08												
	Lyon ...	29.94	70	N	1	b	29.86	-.16	60	57	0	SSE	3	0	*	75	57	—												
	Nice ...	29.93	68	W	3	C	29.82	-.16	66	60	—	2	WSW	1	0	1	77	59	—											
	Perpignan ...	30.04	68	W	4	0	29.90	-.14	66	62	—	8	NW	3	0	*	88	62	—											
	Biarritz ...	30.10	63	WNW	5	0	29.86	-.25	64	61	+ 1	SE	4	b	3	68	57	—												
	Corunna ...	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*												
	Lisbon ...	30.13	69	WNW	5	C	30.07	-.13	69	65	0	WNW	5	b	5	79	56	—												

For Explanation of Columns, see p. 1.

† Received too late for insertion in Charts on p. 2.

WEATHER CHARTS

for 8 a.m. on

Wednesday, 4th July.

1888.

BAROMETER, WIND & SEA.

(Explanation of Map)

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

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

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

Sea Disturbance—where considerable, is shown thus.

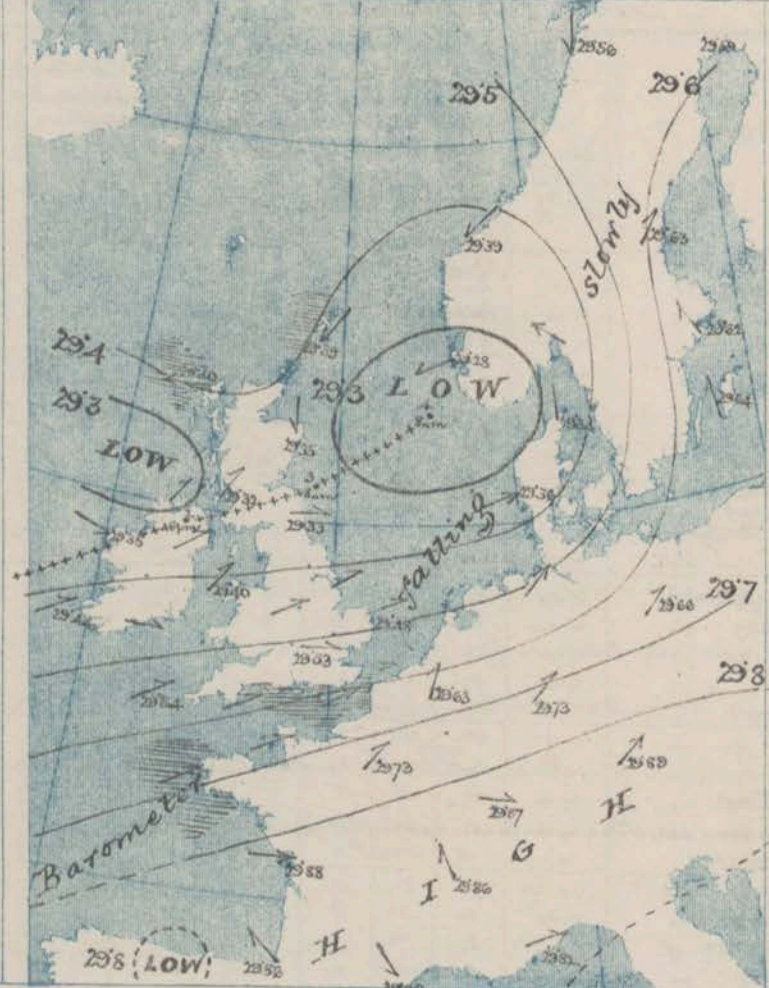
■ = Rough. ■ = High.

MEAN HEIGHT of the BAROMETER

at 8 a.m. for the month of July

During the 15 Years 1871—1885.

STATIONS.	MEAN READINGS.
Sumburgh Head	29.791
Stornoway	29.797
Wick	29.810
Nairn	29.821
Aberdeen	29.831
Leith	29.850
Shields	29.876
York	29.910
Loughborough	29.936
Ardrossan	29.862
Donaghadee	29.881
Holyhead	29.918
Liverpool	29.913
Parsonstown	29.921
Valencia	29.939
Roche's Point	29.938
Pembroke	29.942
Scilly	29.984
Jersey	30.009
Hurst Castle	29.974
Dover	29.970
LONDON	29.987
Oxford	29.953
Cambridge	29.947
Yarmouth	29.943



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

Temperature—Isotherms are drawn for each 10° Changes since previous morning are stated in words.

Weather is shown by Letters of the Beaufort Scale.

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

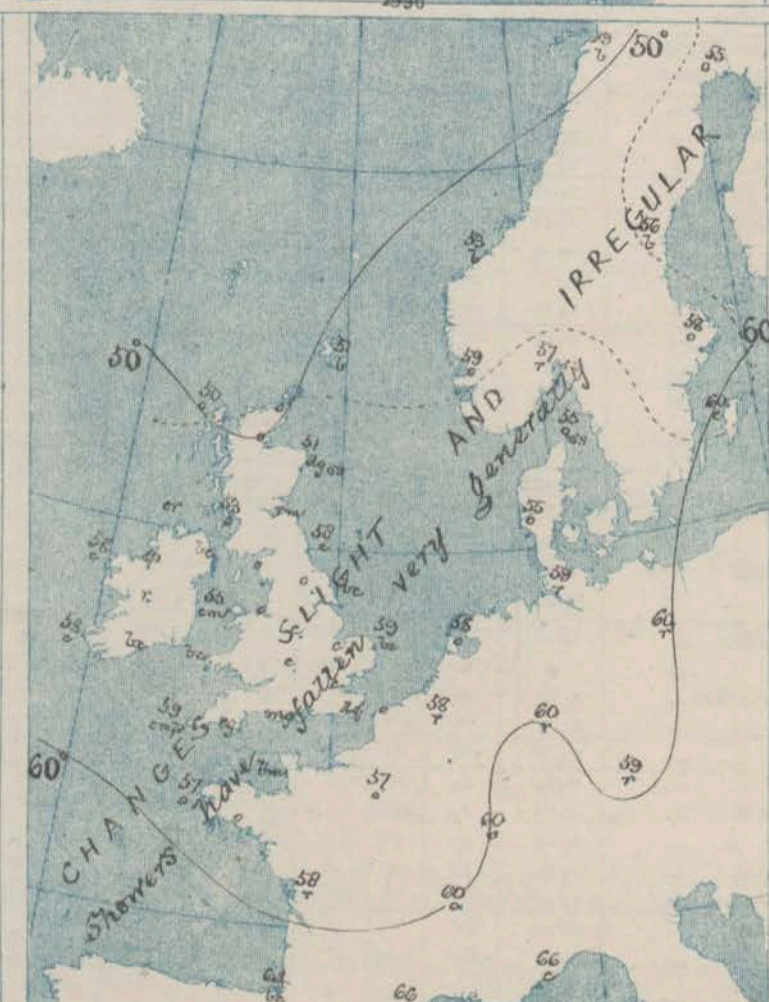
MEANS OF TEMPERATURE IN SHADE.

AND RAINFALL.

For the month of July.

STATIONS.	TEMPERATURE.				RAINFALL. (Inches.)
	Daily Max.	Daily Min.	at 8 a.m.		
			Dry.	Wet.	
Sumburgh Head	57.8	48.3	53.6	52.0	2.09
Stornoway	60.2	49.5	56.0	54.0	3.02
Wick	62.2	49.2	56.1	53.8	2.25
Nairn	64.7	51.4	57.2	53.6	2.57
Aberdeen	64.4	51.1	58.0	54.4	2.74
Leith	67.1	51.7	58.6	55.3	2.84
Shields	64.4	52.9	58.6	55.4	2.63
York	68.5	52.1	59.4	56.2	2.67
Loughborough	72.1	53.0	62.0	58.2	2.34
Ardrossan	63.9	53.2	57.5	54.8	2.91
Donaghadee	63.1	51.6	57.4	55.6	2.67
Holyhead	63.9	54.7	58.2	55.9	2.32
Liverpool	66.1	54.4	59.6	55.9	2.99
Parsonstown	66.4	51.9	58.3	54.8	3.01
Valencia	64.1	53.6	58.7	56.3	3.91
Roche's Point	66.7	53.3	58.7	55.8	3.16
Pembroke	62.9	55.0	58.1	55.9	2.31
Scilly	64.5	56.3	60.1	58.0	2.29
Jersey	68.8	56.3	62.2	59.2	2.21
Hurst Castle	67.9	55.7	61.3	58.8	2.15
Dover	67.2	56.9	62.6	58.8	1.82
LONDON	73.0	54.1	62.3	58.1	2.17
Oxford	69.9	53.7	60.2	56.8	2.51
Cambridge	72.3	52.4	61.4	57.9	2.30
Yarmouth	66.8	55.2	61.2	58.1	2.68

Note—The Temperature means are for the 15 years 1871—85, the Rainfall means are mainly those for the 20 years 1868—85.



GENERAL SITUATION AT 8 A.M.

PRESSURE	Highest 30.0 ins. and more over the southern parts of Spanish Peninsula, 29.8 ins. and more over the southern parts of France, and 29.4 ins. and more off the north of Scotland. Lowest About 29.3 ins. in two depressions, — one off our northwestern coast and the other over the North Sea. Gradients moderate and complex. Barometer falling slowly.
TEMPERATURE	Highest 69° at Lisbon, 66° in the south of France, 64° at Biarritz, 60° at Berlin, Wiesbaden and Roches Point. Lowest 49° at Bodo, 50° at Haifa and Stormoway, 51° at Aberdeen, and 52° at Melin Head. It is still low for the time of year.
WIND	Moderate W. in Ireland — strong W. over the Bay of Biscay. S.W. over England, France and Germany; strong in the Channel. Light and variable on our northeast coast — NE. in Norway and the north of Scotland.
WEATHER	Bleak in the west of Norway, but continues cloudy and showery elsewhere. Rain is falling at all the German stations and at Brussels. The rainfall measured at Aberdeen this morning was 0.9 inch.
SEA	Rough at the southern and extreme northern stations, moderate or slight elsewhere.

PROBABLE CHANGES IN SYSTEM NOW PREVALENT

The present distribution of pressure, and the changes in progress, indicate a continuance of the rainy unsettled weather recently experienced.

FORECASTS

for the 24 hours ending at NOON on 5th July 1888.

DISTRICTS.	FORECASTS.	DISTRICTS.	FORECASTS.
0 SCOTLAND NORTH	NE ^{ly} and E ^{ly} winds, fresh or strong, rainy.	6 SCOTLAND WEST	Same as N ^o 1.
1 SCOTLAND EAST	Varying winds; unsettled, rainy, some thunder.	7 ENGLAND N.W.	
2 ENGLAND N.E.		8 ENGLAND S.W.	SW ^{ly} and W ^{ly} winds; thundery, very unsettled.
3 ENGLAND EAST	SW ^{ly} winds; weather changeable, rain at times, perhaps thunder locally.	9 IRELAND NORTH	
4 MIDLAND COUNTIES		10 IRELAND SOUTH	
5 ENGLAND SOUTH			
		WARNINGS	NONE ISSUED.

Note.—The South Cone, point downwards (∇) means that gales, or strong winds, are probable, at first from the Southward (from S.E. round by S. to N.W.) Should it appear likely that a gale beginning from between W. and N.W. is likely to veer towards N. or N.E., the North Cone is hoisted in preference to the South Cone.

The North Cone, point upwards (∇) means that gales, or strong winds, are probable, at first from the Northward (from N.W. round by N. to S.E.) Should it appear likely that a gale beginning from between E. and S.E. is likely to veer towards S. or S.W., the South Cone is hoisted in preference to the North Cone.

YESTERDAY'S 2 P.M. REPORTS.

	Bar.	Dry.	Wet.	Wind.	Wca.	Sea.		Bar.	Dry.	Wet.	Wind.	Wca.	Sea.
Skudesnaes ...	29.43	66	55	SSE 1	c	3	Holyhead ...	29.57	57	55	SW 4	c	4
Sumburgh Head ...	29.47	52	48	ENE 6	c	6	Valencia ...	29.61	61	58	WSW 5	oq	5
Stornoway ...	29.46	53	32	NE 6	c	5	Scilly ...	29.78	62	60	WSW 5	a	6
Aberdeen ...	29.35	49	48	N 4	rq	6	Jersey ...	29.87	62	58	W 6	b	5
Shields ...	29.27	55	53	WSW 3	r	2	Dungeness ...	29.61	59	57	WSW 7	mgd	6
Ardrossan ...	29.38	53	52	NE 1	r	1	London ...	29.58	68	63	WSW 7	bc	*
Malin Head ...	29.36	54	53	W 4	0	3	Yarmouth ...	29.46	64	58	WSW 5	cq	4
Mullaghmore ...	29.44	58	54	W 5	om	4	Rochefort ...	30.08	69	63	W 7	c	2
Belmullet ...	29.48	58	53	WNW 2	c	*							

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

The reports for yesterday morning showed that pressure was highest, 30.1 ins. and upwards, over Spain and Algeria, and lowest 29.2 ins. and less, in a depression which had advanced across the northern parts of Ireland and England to our northeast coast. With these conditions the prevailing winds over southwestern and southern Europe were W or SW^{ly}, and in the English Channel they blew strongly. Over the more central countries however, the wind was rather more S^{ly}, while in the west of Norway and the north of Scotland it was E^{ly}. The weather was fine over southern Europe and also in the extreme north, cloudy or overcast elsewhere, with rain in many places and a thunderstorm at Holyhead. Temperature had fallen a little in Scotland and also in Austria the greater part of Italy and Spain, but risen elsewhere; readings ranged from 75° and upwards at some of the Mediterranean stations to 50° and less over Lapland and the north of Scotland. The highest individual readings were 84° at Biskra, 83° at Alicante, 80° at Algiers, 79° at Laghiari, 76° at Barcelona, and 75° at Madrid; the lowest were 46° at Bodo, 48° at Ulick and Naism, 49° at Sumburgh Head, 50° at Haparanda, St Petersburg, Leith and Stornoway, and 51° at Christiansund.

In the course of the day the depression in the northeast travelled slowly ^{to the} eastward across the North Sea, but very little change was observed in the winds or weather. Showers and squalls continued to prevail over the southern parts of the Kingdom, and a thunderstorm was observed at Wick during the ensuing night.

EXPLANATION OF COLUMNS GIVEN ON PAGE 1.

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

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

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

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

DAILY WEATHER REPORT.

for Thursday, 5th July 1888.
Issued by the Meteorological Office, 116, Victoria Street, London. R. H. SCOTT, Secretary.

Issued by the Meteorological Office, 110, Victoria Street, London. R. H. SCOTT, Secretary.																			
STATIONS.		+ YESTERDAY EVENING.					8 A.M. TO DAY.										PAST 24 HOURS.		
		Barometer at 32° F. and Sea Level.	Temp. in Shade.	WIND.		Weather.	BAROMETER.		SHADE TEMP.			WIND.		Weather.	Sea (0 to 9.)	SHADE TEMP.			
				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.	
SCANDINAVIA.	Haparanda ..	29.77	51	Z	0	b	29.82	+ .23	62	64	+ .7	S	4	b	*	62	46	-	
	Hernösand ...	29.67	54	S	2	e	29.72	+ .09	54	52	- .2	S	4	0	*	64	41	0.08	
	Stockholm ...	29.62	58	SE	2	0	29.60	- .02	64	58	+ .6	ESE	2	c	*	66	50	-	
	Wisby ...	29.63	58	SE	2	0	29.60	- .04	63	59	+ .3	S	2	bc	*	68	52	-	
	Bodö ...	29.45	53	SE	2	c	29.45	- .11	59	52	+ .10	ESE	6	0	3	59	47	-	
	Christiansund...	29.34	58	NW	1	0	29.37	- .02	50	49	- .3	NW	4	r	3	61	48	0.12	
	Skudesnaes ...	29.30	59	SE	2	0	29.36	+ .08	57	55	- .2	SE	4	0	4	61	57	-	
	Christiania Fjord (Fjorder)	29.38	56	SSW	5	r	?	?	56	54	- .1	SSW	5	0	3	57	55	0.47	
	Skagen (The Scaw)	29.41	54	SSW	3	bc	29.48	+ .14	56	55	+ .1	S	1	bc	2	57	52	0.20	
	Fanö ...	29.47	55	SW	4	b	29.46	+ .10	59	58	+ .4	SW	4	c	*	61	54	-	
BRITISH ISLANDS.	Sumburgh Head	29.41	48	NNE	3	0	29.50	+ .11	48	45	- .3	NNE	3	c	3	54	45	-	
	Stornoway ...	29.44	52	NE	6	bc	29.53	+ .13	49	47	- .1	NE	6	0	5	54	45	-	
	Wick ...	29.44	51	N	3	0	29.54	+ .14	51	48	0	NE	3	0	2	55	45	-	
	Nairn ...	29.43	52	ESE	1	c	29.52	+ .14	50	49	0	ESE	1	c	1	55	48	-	
	Aberdeen...	29.41	50	WNW	2	c	29.52	+ .17	49	46	- .2	N	2	0	1	53	47	0.01	
	Leith ...	29.39	54	SE	2	0	29.49	+ .16	50	47	- .3	E	3	0	*	55	42	0.05	
	Shields ...	29.38	51	NE	1	p	29.46	+ .13	50	49	- .8	N	2	r	3	63	47	0.32	
	Spurn Head ...	29.40	58	W	1	bc	29.45	+ .04	53	52	- .6	NNE	2	cp	2	63	50	0.83	
	York ...	29.37	62	W	3	c	29.44	+ .05	53	52	- .6	NE	1	m	*	67	50	0.07	
	Loughborough	29.43	58	SW	1	0	29.45	- .01	58	56	0	WNW	1	cp	*	67	52	0.42	
GERMANY.	Ardrossan ...	29.33	60	NE	2	0	29.46	+ .14	49	47	- .4	NE	3	om	2	63	47	0.06	
	Malin Head ...	29.29	52	SE	3	cp	29.39	+ .13	50	50	- .2	E	3	om	3	56	50	0.09	
	Mullaghmore ...	29.31	56	W	5	om	29.37	+ .05	55	53	0	SSW	2	cp	2	60	52	0.06	
	Belmullet ...	29.37	56	WNW	3	c	29.35	00	56	55	+ .1	N	3	0	*	67	53	0.23	
	Donaghadee ...	29.32	58	WSW	3	c	29.41	+ .08	53	53	- .4	ESE	3	0	2	65	53	0.22	
	Barrow-in-Furness	29.37	58	SE	3	bc	29.41	+ .04	55	55	+ .1	SE	3	r	*	59	54	0.29	
	Liverpool (Biddon)	29.39	57	W	2	c	29.42	00	59	54	+ .3	SSW	1	c	1	63	52	-	
	Holyhead ...	29.38	56	SSW	5	bcpm	29.40	00	55	54	0	SSW	1	om	2	60	53	0.04	
	Parsonstown ...	29.37	63	SSW	2	bc	29.41	+ .02	55	52	- .2	W	0	bc	*	64	44	0.07	
	Valencia ...	29.41	61	W	3	c	29.45	+ .01	60	56	+ .2	W	1	bc	2	64	48	0.03	
FRANCE & NETHERLANDS.	Roche's Point...	29.40	58	WNW	5	p	29.41	- .03	57	54	- .3	NW	3	b	3	62	53	1.25	
	Pembroke ...	29.44	57	WSW	3	bc	29.42	- .06	57	56	+ .1	SSW	2	bc	2	59	54	-	
	Scilly ...	29.50	62	SW	5	c	29.45	- .09	61	58	+ .2	SW	2	cp	4	64	53	0.18	
	Prawle Poir ...	29.52	56	SSW	3	c	29.48	- .09	57	56	+ .1	SW	3	bc	2	59	51	0.02	
	Jersey ...	29.58	58	W	3	0	29.56	- .08	58	56	- .2	SSW	3	agpm	3	65	55	0.10	
	Hurst Castle ...	29.51	60	WSW	6	bc	29.51	- .05	56	56	+ .1	SW	5	cm	3	57	55	-	
	Dungeness ...	29.50	58	WSW	6	bc	29.50	- .06	58	55	+ .3	WSW	5	c	4	61	54	-	
	London ...	29.48	61	SSW	3	c	29.50	- .03	59	55	0	W	2	c	*	66	53	0.15	
	Oxford ...	29.46	58	SW	3	b	29.48	- .03	58	56	0	SW	2	0	*	65	52	0.02	
	Cambridge ...	29.44	64	SW	1	c	29.47	- .02	60	58	0	SW	1	c	*	70	51	0.43	
PORTUGAL.	Yarmouth ...	29.47	58	WNW	1	bc	29.46	- .02	57	56	- .1	W	2	c	2	67	53	0.43	
	Cuxhaven ...	29.55	57	SW	1	b	29.55	00	59	58	0	SW	2	c	*	64	54	0.26	
	Berlin ...	29.61	65	W	0	bc	29.61	- .05	63	59	+ .3	SW	2	c	*	72	54	0.04	
	Wiesbaden ...	*	*	*	*	*	29.61	- .12	60	57	0	SW	1	0	*	66	55	0.08	
	Munich ...	29.84	54	SW	3	r	29.73	- .16	59	56	0	SE	2	0	*	63	50	0.24	
	The Helder ...	29.43	62	SW	4	b	29.54	+ .05	59	56	+ .1	WSW	4	0	4	64	57	0.08	
	Brussels ...	*	*	*	*	*	29.55	- .08	56	56	- .2	W	1	0	*	65	55	0.59	
	Cape Gris Nez...	29.53	60	WSW	7	bc	29.52	- .06	55	55	- .4	SW	5	0	4	61	54	0.04	
	Paris ...	29.63	62	SW	4	0	29.64	- .09	58	56	+ .1	SW	3	0	*	67	56	0.04	
	Brest ...	29.67	59	SW	3	0	29.59	- .16	57	55	0	W	5	0	4	72	52	0.12	
PORTUGAL.	Lorient ...	29.65	59	W	5	r	29.60	- .12	59	57	+ .1	W	5	0	5	63	55	0.67	
	Rochefort ...	29.67	65	WSW	7	r	29.79	- .09	62	60	+ .4	W	7	c	2	66	55	0.32	
	Belfort ...	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	
	Lyons ...	29.84	62	WNW	3	0	29.78	- .08	63	58	+ .3	SSW	3	c	*	73	68	0.16	
	Nice ...	29.73	68	WSW	3	bc	29.75	- .07	60	60	- .6	SSW	1	r	0	79	61	-	
	Perpignan ...	29.76	72	N	3	b	29.83	- .07	65	56	- .1	NW	5	0	*	75	64	-	
	Biarritz ...	29.82	66	W	9	0	29.85	- .01	64	59	0	SSW	4	c	3	81	63	0.04	
	Corunna ...	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	
	Lisbon ...	20.04	68	SW	1	0	30.04	- .03	68	63	- .1	W	3	bc	5	77	64	-	
	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	

For Explanation of Columns, see p. 4.

† Received too late for insertion in Charts on p. 2.

WEATHER CHARTS

for 8 a.m. on

Thursday, 5th July.

1888.

BAROMETER, WIND & SEA.

(Explanation of Map)

Barometer — Iso-bars are drawn for each tenth of an inch. Changes since previous morning are stated in words.

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

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

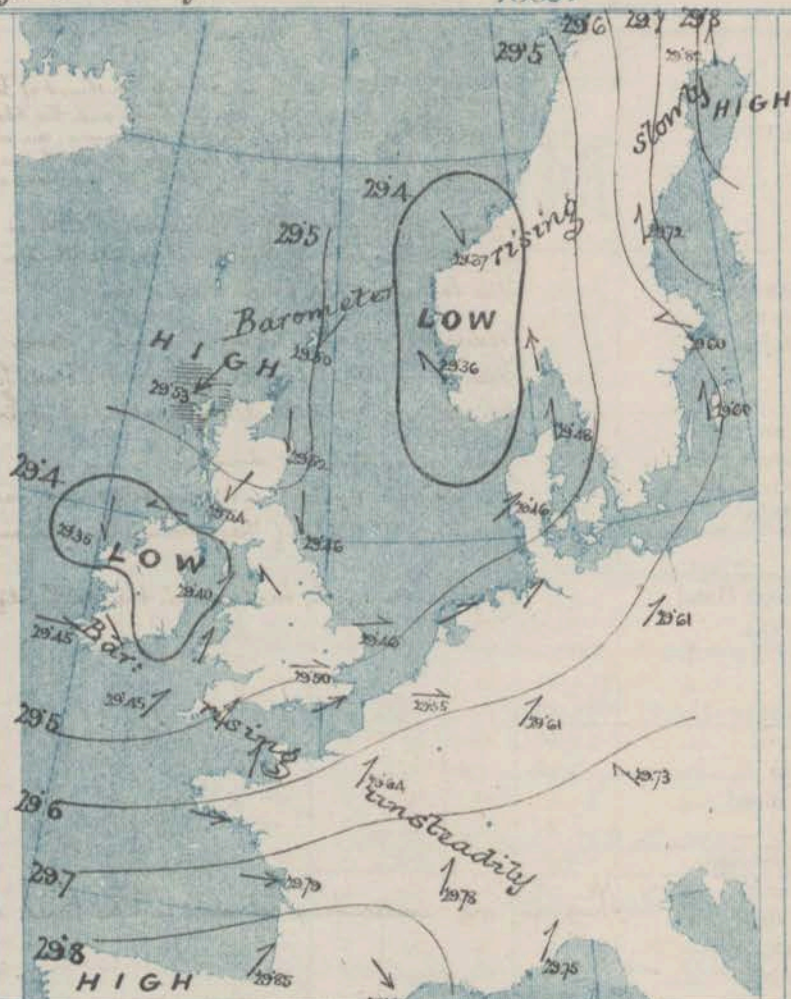
Sea Disturbance — where considerable is shown thus.

■ = Rough. ■ = High.

MEAN HEIGHT of the BAROMETER

at 8 a.m. for the month of July
During the 15 Years 1871—1885.

STATIONS.	MEAN READINGS.
	in.
Sumburgh Head	29.794
Stornoway	29.797
Wick	29.810
Nairn	29.821
Aberdeen	29.831
Leith	29.850
Shields	29.876
York	29.910
Loughborough	29.938
Ardrossan	29.862
Donaghadee	29.881
Holyhead	29.918
Liverpool	29.913
Parsonstown	29.921
Valencia	29.939
Roche's Point	29.938
Pembroke	29.942
Scilly	29.984
Jersey	30.009
Hurst Castle	29.974
Dover	29.970
LONDON	29.967
Oxford	29.953
Cambridge	29.947
Yarmouth	29.943



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

Temperature — Isotherms are drawn for each 10° changes since previous morning are stated in words.

Weather — is shown by Letters of the Beaufort Scale.

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

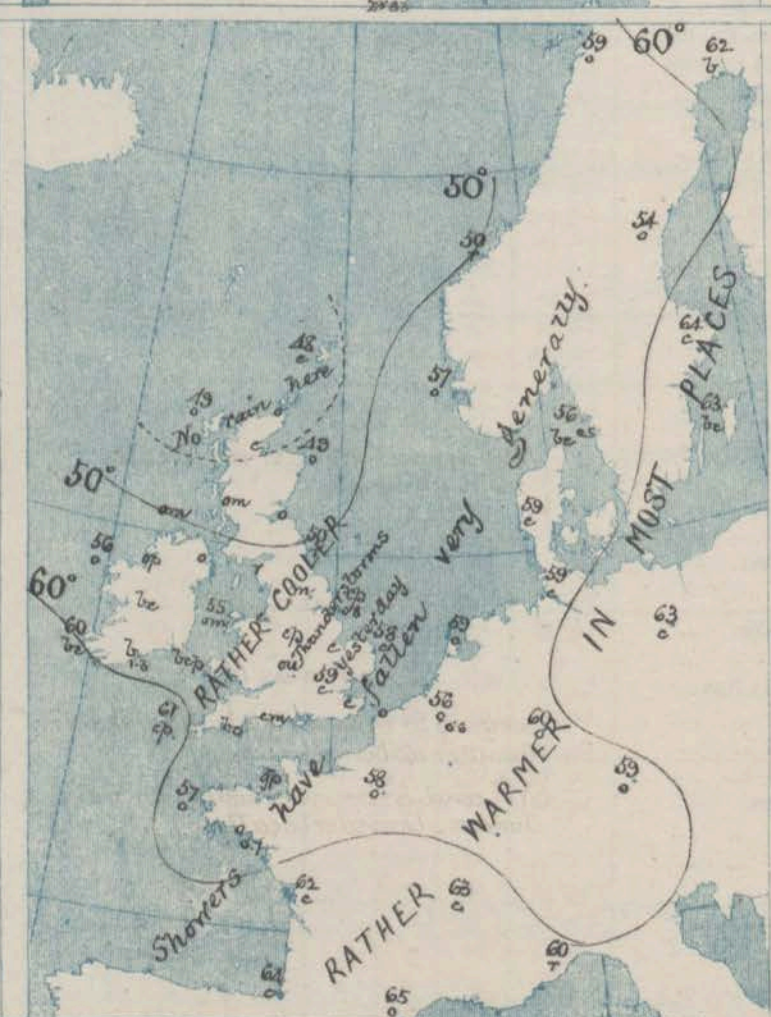
MEANS OF TEMPERATURE IN SHADE.

AND RAINFALL.

for the month of July.

STATIONS.	TEMPERATURE.				RAINFALL. (Inches.)
	Daily Max.	Daily Min.	at 8 a.m.		
			Dry.	Wet.	
Sumburgh Head	57.8	48.3	58.6	52.0	2.09
Stornoway	60.2	49.5	56.0	54.0	3.02
Wick	62.2	49.2	56.1	53.8	2.25
Nairn	64.7	51.4	57.2	53.6	2.57
Aberdeen	64.4	51.1	58.0	54.4	2.74
Leith	67.1	51.7	58.6	55.3	2.84
Shields	64.4	52.9	58.6	55.4	2.03
York	68.5	52.1	59.4	56.2	2.57
Loughborough	72.1	53.0	62.0	58.2	2.34
Ardrossan	63.9	53.2	57.5	54.8	2.91
Donaghadee	63.1	51.6	57.4	55.6	2.67
Holyhead	63.9	54.7	58.2	55.9	2.32
Liverpool	66.1	54.4	59.6	55.9	2.99
Parsonstown	66.4	51.9	58.3	54.8	3.01
Valencia	64.1	53.6	58.7	56.3	3.91
Roche's Point	66.7	53.3	58.7	55.8	3.16
Pembroke	62.9	55.0	58.1	55.9	2.31
Scilly	64.5	56.3	60.1	58.0	2.29
Jersey	68.8	56.3	62.2	59.2	2.21
Hurst Castle	67.9	55.7	61.3	58.8	2.15
Dover	67.2	56.9	62.6	58.8	1.82
LONDON	73.0	54.1	62.3	58.1	2.17
Oxford	69.9	53.7	60.2	56.8	2.51
Cambridge	72.3	52.4	61.4	57.9	2.30
Yarmouth	60.8	55.2	61.2	58.1	2.68

NOTE — The Temperature means are for the 15 years 1871—85, the Rainfall means are mainly those for the 10 years 1866—85



GENERAL SITUATION AT 8 A.M.

PRESSURE

Highest, 29.8 in: to 30.0 in: over the southwest of France and northern half of Spain.
 Lowest, 29.5 in: and less, over Scotland and the Shetlands and Hebrides.
 Gradients, slight in our Islands and over the North Sea, moderate over the Bay of Biscay and France.
 Barometer rising a little in the north, and over Denmark and the Baltic; falling slightly elsewhere.

TEMPERATURE

Highest, 68° at Lisbon, 65° at the Pyrenees, 60° to 64° at the other stations in the south of France, 64° at Stockholm, 62° at Haparanda, 60° at Cambridge, 58° at St. Petersburg.
 Lowest, 48° at Seaburg Head, 49° at Stromsø, Alnæs, and Andenes, 50° at Fife, Shields, and Malin Head.
 It is low generally for the time of year.

WIND

Moderate to fresh SW in the Channel - strong W over the Bay of Biscay.
 Fresh SE in the south of Norway, and NE in Scotland.
 Variable over Ireland and the greater part of England.

WEATHER

Cloudy generally, with showers in many places.
 The general condition is very unsettled and rainlike.
 Thunder and lightning have occurred in many places.

SEA

Rough in the north, moderate in the south, slight or smooth at the western and eastern stations.

PROBABLE CHANGES IN SYSTEM NOW PREVALENT

There is no indication of any important change of weather.

FORECASTS

for the 24 hours ending at NOON on 6th JULY 1888.

DISTRICTS.

FORECASTS.

0	SCOTLAND NORTH	NE ² winds, light or moderate; rain at times.
1	SCOTLAND EAST	
2	ENGLAND N.E.	Same as N°4
3	ENGLAND EAST	Same as N°5
4	MIDLAND COUNTIES	Varying S ² breezes, light; heavy showers, thunder at times.
5	ENGLAND SOUTH	SW ² and S ² breezes, moderate; heavy showers, thunder locally.

DISTRICTS.

FORECASTS.

6	SCOTLAND WEST	NE ² and variable breezes, light; showery, very unsettled.
7	ENGLAND N.W.	
8	ENGLAND S.W.	SW ² to NW ² breezes, light; showery, thunder locally.
9	IRELAND NORTH	
10	IRELAND SOUTH	Varying N ² breezes; showery to fair, cold.

WARNINGS

NONE ISSUED.

Note.—The South Cone, point downwards (∇) means that gales, or strong winds, are probable, at first from the Southward (from S.E. round by S. to N.W.) Should it appear likely that a gale beginning from between W. and N.W. is likely to veer towards N. or N.E. the North Cone is hoisted in preference to the South Cone.
 The North Cone, point upwards (∧) means that gales, or strong winds, are probable, at first from the Northward (from N.W. round by N. to S.E.) Should it appear likely that a gale beginning from between E. and S.E. is likely to veer towards S. or S.W., the South Cone is hoisted in preference to the North Cone.

YESTERDAY'S 2 P.M. REPORTS.

	Bar.	Dry.	Wet.	Wind.	Wes.	Ses.		Bar.	Dry.	Wet.	Wind.	Wes.	Ses.
Skudonnes	29.15	60	55	NNE 2	r	3	Holyhead	29.39	58	56	SSW 4	c	4
Samburgh Head	29.40	60	47	NE 4	o	5	Valencia	29.43	63	60	WSW 4	c	4
Stornoway	29.42	61	52	NE 6	c	5	Scilly	29.52	64	61	SW 4	c	5
Aberdeen	29.39	63	50	N 2	o	3	Jersey	29.09	64	58	WSW 4	c	4
Shields	29.35	55	51	NE 2	p	3	Dungeness	29.52	60	57	WSW 6	c	5
Ardrossan	29.33	63	58	NE 1	o	1	London	29.49	63	60	WSW 3	c	3
Malin Head	29.28	55	55	NE 1	o	0	Yarmouth	29.45	67	58	WSW 4	bc	3
Mullaghmore	29.31	58	55	N 5	om	3	Rochefort	29.77	62	60	SSW 4	r	2
Belmullet	29.36	56	52	NW 5	e	*							

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

The reports for yesterday morning showed that pressure was highest 29.9 ins. and upwards over the Mediterranean and lowest 29.3 ins. and less, in two well defined depressions lying respectively off the north of Ireland and off the southwest of Norway. In the extreme north of our Islands and in Norway the wind remained E^z and over Northern Russia it was variable, but elsewhere it was chiefly W^z or SW^z and in the southern parts of the United Kingdom and the north of France it blew freshly or strongly. The weather was fine in Spain, Algeria and the south of Italy, as well as in the west of Norway, but cloudy or overcast elsewhere with showers in many places. Temperature had fallen a little over France and Northern Russia, risen in Algeria, but elsewhere the changes were slight and irregular; readings ranged from 75° and upwards in Algeria and some parts of Spain and Italy to 50° or less at some of the extreme northern stations. The highest individual readings were 87° at Biskra, 82° at Algiers and La Balla, 81° at Algiers, 79° at Nemours, 78° at Biskra and Oran; the lowest were 48° at Uleaborg, 45° at Bodo, 50° at Stavanger and Stornoway, 51° at Archangel, Lumburg Head, Wick and Aberdeen and 52° at Malin Head.

In the course of the day the depressions noticed above moved slowly eastwards. The weather remained very showery and unsettled, with thunderstorms in many places, and a gale from the W^z in the southern part of the Bay of Biscay.

EXPLANATION OF COLUMNS GIVEN ON PAGE 1.

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

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

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

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

DAILY WEATHER REPORT.

for *Friday, 6th July* 1888.
Issued by the Meteorological Office, 116, Victoria Street, London. R. H. SCOTT, Secretary.

Issued by the Meteorological Office, 110, Victoria Street, London, W.1. A. H. SCOTT, Secretary.																		
STATIONS.		+ YESTERDAY EVENING.					3 A.M. TO DAY.										PAST 24 HOURS.	
		Barometer at 32° F. and Sea Level.	Temp. in Shade.	WIND.		Weather.	BAROMETER.		SHADE TEMP.			WIND.		Weather.	Sea. (0 to 9.)	SHADE TEMP.		Amount of Rainfall.
				Dir.	Force. (0 to 12.)		Reading at 32° F. and Sea Level.	Difference from 3 a.m. yesterday.	Dry.	Wet.	Difference from 3 a.m. yesterday.	Dir.	Force. (0 to 12.)			Max.	Min.	
SCANDINAVIA.	Haparanda ..	29.80	60	S	2	c	29.80	- 0.2	62	56	0	S	2	0	*	72	45	-
	Hernösand ...	29.67	55	S	1	c	29.69	- 0.3	54	53	0	SE	2	0	*	68	50	-
	Stockholm ...	29.61	56	SE	2	bc	29.63	+ 0.3	64	58	0	ESE	2	0	*	70	52	-
	Wisby ...	29.66	58	SE	4	b	29.62	+ 0.2	61	58	- 2	ESE	4	c	*	72	54	-
	Bodö ...	29.52	58	N	0	c	29.59	+ 0.14	59	55	0	E	2	1	*	61	50	0.08
	Christiansund...	29.52	49	NNE	4	f	29.60	+ 0.23	49	48	- 1	NNE	4	f	3	52	46	0.28
	Skudesnaes ...	29.48	53	NW	4	r	29.59	+ 0.23	53	48	- 4	NW	6	c	4	57	52	?
	Christiania Fjord (Færdor)	29.52	60	SE	2	b	29.58	?	62	59	+ 6	SE	2	m	2	62	56	-
	Skagen (The Scaw)	29.51	58	N	0	c	29.58	+ 0.10	52	52	- 4	NW	1	f	1	64	50	0.08
	Fanö ...	29.51	57	N	0	c	29.59	+ 0.13	55	53	- 4	SW	2	0	*	63	54	-
BRITISH ISLANDS.	Sumburgh Head	29.62	47	NW	2	0	29.73	+ 0.23	46	42	- 2	N	1	c	3	52	37	-
	Stornoway ...	29.67	50	NE	5	b	29.80	+ 0.27	48	47	- 1	NE	4	0	4	53	35	-
	Wick ...	29.68	51	NE	3	0	29.80	+ 0.26	48	47	- 3	NE	2	ep	2	55	45	0.03
	Nairn ...	29.64	50	ENE	3	0	29.78	+ 0.26	48	45	- 2	N	0	c	1	56	45	0.02
	Aberdeen...	29.64	50	NE	4	c	29.80	+ 0.28	47	43	- 2	NW	2	c	2	53	43	-
	Leith ...	29.62	52	E	3	0	29.77	+ 0.28	51	46	+ 1	NE	3	c	*	55	47	0.01
	Shields ...	29.58	50	NNE	2	0	29.71	+ 0.25	49	45	- 1	NNE	3	0	3	53	47	0.08
	Spurn Head ...	29.51	52	NE	3	c	29.67	+ 0.22	53	52	0	NNE	4	c	3	56	50	0.02
	York ...	29.53	55	E	2	0	29.70	+ 0.26	52	50	- 1	NNE	2	0	*	59	49	-
	Loughborough	29.48	59	NNE	1	c	29.67	+ 0.22	51	50	- 4	NE	3	cd	*	68	59	0.20
GERMANY.	Ardrossan ...	29.56	55	ENE	2	om	29.77	+ 0.21	51	46	+ 2	NE	1	om	1	57	48	-
	Malin Head ...	29.55	52	NE	3	om	29.78	+ 0.39	49	48	- 1	NE	3	op	3	56	47	0.02
	Mullaghmore ...	29.49	53	NE	5	opm	29.75	+ 0.38	53	51	- 2	ENE	5	om	4	60	52	0.11
	Belmullet ...	29.51	56	NNE	5	0	29.67	+ 0.32	53	52	- 3	NNE	3	0	*	60	52	0.07
	Donaghadee ...	29.53	56	ENE	2	0	29.77	+ 0.36	52	52	- 1	ENE	4	0	2	58	50	-
	Barrow-in-Furness	29.50	56	NE	3	0	29.69	+ 0.28	49	49	- 6	NE	2	r	*	59	49	0.24
	Liverpool (Bidston)	29.48	57	ENE	2	0	29.70	+ 0.28	51	49	- 8	ENE	2	0	2	66	49	0.05
	Holyhead ...	29.49	55	W	1	bcm	29.68	+ 0.28	52	50	- 3	ENE	4	Term	4	60	51	0.01
	Parsonstown ...	29.47	64	N	0	c	29.70	+ 0.29	55	53	0	NE	1	0	*	64	53	0.01
	Valencia ...	29.48	60	WNW	2	c	29.66	+ 0.21	61	57	+ 1	NW	1	c	1	62	52	-
FRANCE & NETHERLANDS.	Roche's Point...	29.48	59	SW	3	c	29.64	+ 0.23	60	56	+ 3	SE	3	bc	3	62	48	0.06
	Pembroke ...	29.49	55	W	2	c	29.65	+ 0.23	53	53	- 4	WNW	2	op	1	60	52	-
	Scilly ...	29.50	60	W	3	0	29.66	+ 0.21	63	60	+ 2	N	0	bc	4	63	52	0.08
	Prawle Point ...	29.51	56	SW	3	0	29.67	+ 0.19	59	57	+ 2	SW	2	bc	1	61	51	-
	Jersey ...	29.56	57	SW	3	r	29.71	+ 0.15	58	56	0	WSW	3	ogm	3	63	55	0.65
	Hurst Castle ...	29.52	58	SW	5	c	29.64	+ 0.13	59	57	+ 3	W	2	cd	1	61	54	0.10
	Dungeness ...	29.54	60	WSW	3	c	29.59	+ 0.09	56	56	- 2	WSW	2	c	2	63	55	0.10
	London ...	29.50	61	SSW	2	c	29.62	+ 0.12	56	54	- 3	N	0	ogm	*	66	52	0.21
	Oxford ...	29.51	59	NW	2	c	29.64	+ 0.16	55	54	- 3	N	1	r	*	64	51	0.11
	Cambridge ...	29.45	64	S	1	0	29.63	+ 0.16	54	54	- 6	N	1	t	*	70	53	0.45
PENINSULA.	Yarmouth ...	29.51	59	SSW	2	bc	29.60	+ 0.14	56	55	- 2	NE	3	cg	3	62	54	0.23
	Cuxhaven ...	29.57	60	WNW	2	r	29.64	+ 0.09	60	59	+ 1	S	1	bc	*	64	57	0.26
	Berlin ...	29.57	68	SW	1	0	29.70	+ 0.09	63	59	0	SW	1	c	*	72	55	0.04
	Wiesbaden ...	*	*	*	*	*	29.77	+ 0.16	60	57	0	W	3	c	*	68	54	0.32
	Munich ...	29.80	60	N	0	c	29.93	+ 0.20	55	55	- 4	SW	5	r	*	70	52	0.12
	The Helder ...	29.56	60	SW	1	bc	29.62	+ 0.08	56	55	- 3	S	1	r	1	64	54	0.24
	Brussels ...	*	*	*	*	*	29.66	+ 0.11	59	56	+ 3	SSW	1	c	*	67	55	0.04
	Cape Gris Nez...	29.53	59	SW	4	c	29.59	+ 0.07	56	56	+ 1	SW	4	r	2	64	54	0.16
	Paris ...	29.65	61	SSW	3	0	29.73	+ 0.09	60	56	+ 2	SW	4	bc	*	69	54	0.04
	Brest ...	29.60	60	WNW	5	bc	?	?	57	53	0	W	4	b	3	72	52	-
PENINSULA.	Lorient ...	29.61	60	W	8	c	29.76	+ 0.16	59	57	0	N	0	c	5	63	55	0.28
	Rochefort ...	29.80	64	WSW	7	c	29.85	+ 0.06	63	60	+ 1	WSW	5	c	2	66	55	0.28
	Belfort ...	29.82	64	W	1	0	29.87	+ 0.16	60	54	- 3	W	3	c	*	68	52	0.16
	Lyons ...	29.76	66	WSW	1	a	29.90	+ 0.12	57	54	- 6	SSW	1	r	*	77	57	0.04
	Nice ...	29.73	66	W	3	c	29.80	+ 0.05	68	65	+ 3	E	1	b	1	72	59	0.24
	Perpignan ...	29.85	66	N	1	0	29.90	+ 0.07	63	61	- 2	N	0	0	*	73	58	-
	Biarritz ...	29.86	68	NW	3	b	29.89	+ 0.04	61	59	- 3	SE	3	0	4	72	57	0.12
PENINSULA.	Corunna ...	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Lisbon ...	29.99	64	WSW	5	r	30.01	- 0.03	65	62	- 3	WSW	3	0	5	72	61	0.04

WEATHER CHARTS

for 8 a.m. on

Friday, 6th July.

1888.

BAROMETER, WIND & SEA.

(Explanation of Map)

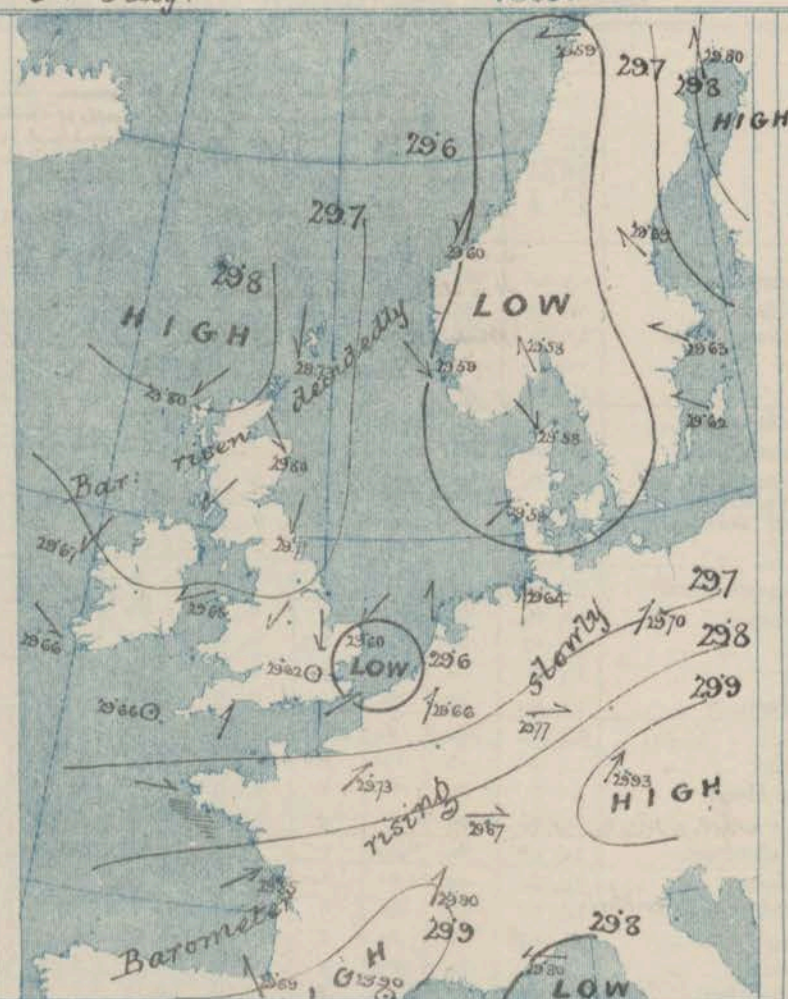
Barometer — Isobars are drawn for each tenth of an inch. Changes since previous morning are stated in words.
Wind — Arrows show the prevalent winds. They fly with the wind and their barbs and feathers refer to force, thus —
 — = forces above 10; — = forces 8 to 10;
 — = forces 5 to 7; — = forces 1 to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

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

MEAN HEIGHT of the BAROMETER

at 8 a.m. for the month of July
 During the 15 Years 1871—1885.

STATIONS.	MEAN READINGS.
Sumburgh Head	29.794
Stornoway	29.797
Wick	29.810
Nairn	29.821
Aberdeen	29.831
Leith	29.850
Shields	29.876
York	29.910
Loughborough	29.936
Ardrossan	29.862
Donaghadee	29.881
Holyhead	29.918
Liverpool	29.913
Parsonstown	29.921
Valencia	29.939
Roche's Point	29.938
Pembroke	29.942
Scilly	29.984
Jersey	30.009
Hurst Castle	29.974
Dover	29.970
LONDON	29.967
Oxford	29.953
Cambridge	29.947
Yarmouth	29.943



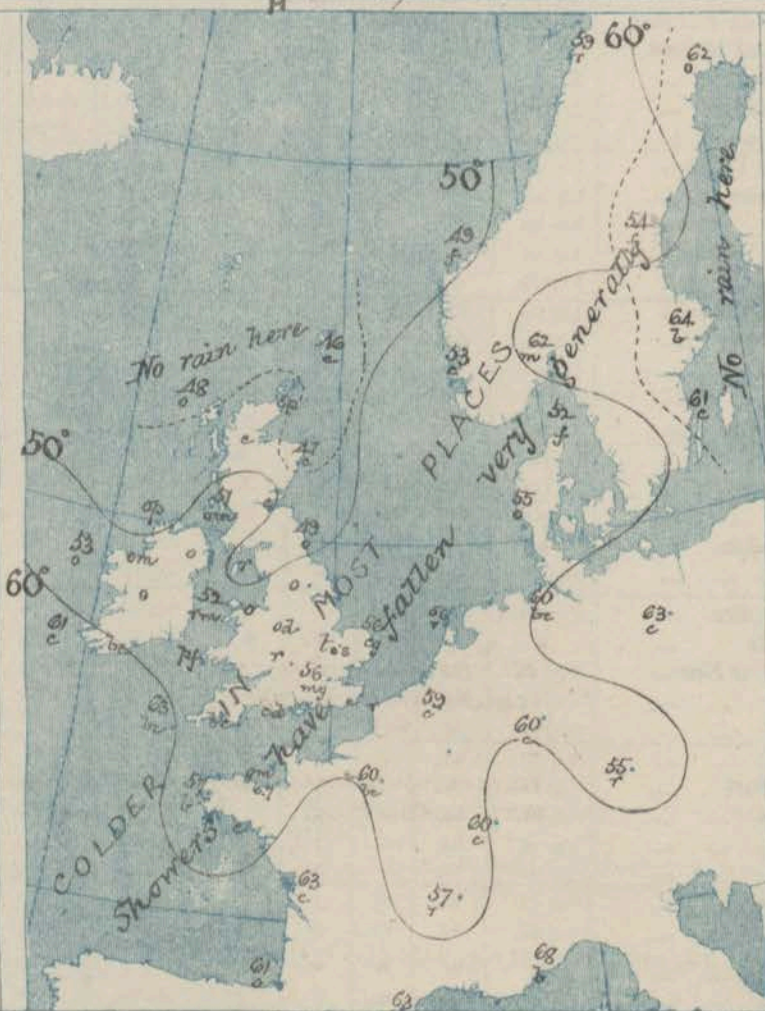
TEMPERATURE, & WEATHER at 8 A.M., with RAINFALL in PAST 24 HOURS.

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

MEANS OF TEMPERATURE IN SHADE. AND RAINFALL. for the month of July.

STATIONS	TEMPERATURE.				RAINFALL. (Inches)
	Daily Max.	Daily Min.	at 8 a.m. Dry.	Wet.	
Sumburgh Head	57.8	48.3	53.6	52.0	2.09
Stornoway	60.2	49.5	56.0	54.0	3.02
Wick	62.2	49.2	56.1	53.8	2.25
Nairn	64.7	51.4	57.2	53.6	2.57
Aberdeen	64.4	51.1	58.0	54.4	2.74
Leith	67.1	51.7	58.6	55.3	2.84
Shields	64.4	52.9	58.6	55.4	2.03
York	68.5	52.1	59.4	56.2	2.57
Loughborough	72.1	53.0	62.0	58.2	2.84
Ardrossan	68.9	53.2	57.5	54.8	2.91
Donaghadee	68.1	51.6	57.4	55.6	2.67
Holyhead	68.9	54.7	58.2	55.9	2.32
Liverpool	66.1	54.4	59.6	55.9	2.99
Parsonstown	66.4	51.9	58.3	54.8	3.01
Valencia	64.1	53.6	58.7	56.3	3.91
Roche's Point	66.7	53.3	58.7	55.8	3.16
Pembroke	62.9	55.0	58.1	55.9	2.31
Scilly	64.5	56.3	60.1	58.0	2.29
Jersey	68.8	56.3	62.2	59.2	2.21
Hurst Castle	67.9	55.7	61.3	58.8	2.15
Dover	67.2	56.9	62.6	58.8	1.82
LONDON	73.0	54.1	62.3	58.1	2.17
Oxford	69.9	53.7	60.2	56.8	2.51
Cambridge	72.3	52.4	61.4	57.9	2.30
Yarmouth	66.8	55.2	61.2	58.1	2.68

NOTE — The Temperature means are for the 15 years 1871—85, the Rainfall means are mainly those for the 30 years 1866—85



GENERAL SITUATION AT 8 A.M.

PRESSURE

Highest { 29.3 in. and more, over South Germany, the southwest of France and north of Spain.
 Lowest { 29.6 in. and less, over the southwest and south of our Islands, the Channel and eastern shores of the North Sea.
 Gradient moderate to slight. Barometer rising generally - most in the north.

TEMPERATURE

Highest, 68° at Nice, 65° at Dublin, 64° at Stockholm, 63° at Rochefort and Scilly, 62° at Haparanda, and 61° at Valencia and Nizby.
 Lowest, 46° at Lumburgh Head, 47° at Aberdeen, 48° in the north of Scotland, 49° at Christiansund and Shields, and 52° at Oaxabad.
 It is still very low for the time of year over Great Britain, France, and Germany.

WIND

Moderate from NE. at all our northern and eastern stations, and from N. and NW. in Norway.
 SW to W over France and the Channel, light SE in Holland.
 Light and variable over our southern countries.

WEATHER

Fair at present in France, dull, rainy and thundery over the greater part of our Islands.
 Misty or foggy in several parts of our area - Very unsettled generally.
 Rain has fallen very generally - most in the south and southeast - Thunder has occurred in several places.

SEA

Moderate at several western and northern stations, slight or smooth elsewhere.

PROBABLE CHANGES IN SYSTEM NOW PREVALENT

Notwithstanding the general increase of pressure there is at present no indication of any improvement in the weather.

FORECASTS

for the 24 hours ending at NOON on 7th July

1888.

DISTRICTS.

FORECASTS.

0	SCOTLAND NORTH	NE ^{ly} and variable winds; rainy, unsettled.
1	SCOTLAND EAST	
2	ENGLAND N.E.	
3	ENGLAND EAST	NE ^{ly} breezes, light; rainy, thundery, cold, very unsettled.
4	MIDLAND COUNTIES	
5	ENGLAND SOUTH	Varying breezes; much rain, thundery, very unsettled.



DISTRICTS.

FORECASTS.

6	SCOTLAND WEST	Same as Nos 0 to 2
7	ENGLAND N.W.	
8	ENGLAND S.W.	Same as No 5
9	IRELAND NORTH	NE ^{ly} winds; changeable, showery to fair, perhaps some thunder.
10	IRELAND SOUTH	

WARNINGS

NONE ISSUED.

Note.—The **South Cone**, point downwards () means that gales, or strong winds, are probable, at first from the Southward (from S.E. round by S. to N.W.) Should it appear likely that a gale beginning from between W. and N.W. is likely to veer towards N. or N.E., the **North Cone** is hoisted in preference to the South Cone.
 The **North Cone**, point upwards () means that gales, or strong winds, are probable, at first from the Northward (from N.W. round by N. to S.E.) Should it appear likely that a gale beginning from between E. and S.E. is likely to veer towards S. or S.W., the **South Cone** is hoisted in preference to the North Cone.

YESTERDAY'S 2 P.M. REPORTS.

	Bar.	Dry.	Wet.	Wind.	Wen.	Sea.		Bar.	Dry.	Wet.	Wind.	Wen.	Sea.
Skudesnaes ...	29.44	56	55	SSW 5	4	4	Holyhead ...	29.46	55	54	W 1	c/p	2
Samburgh Head ...	29.39	49	44	NNE 2	c	3	Valencia ...	29.48	62	58	W 3	c/v	3
Stornoway ...	29.63	53	52	NE 6	6c	5	Scilly ...	29.48	61	58	W 2	c	4
Aberdeen ...	29.48	52	48	ESE 3	0	2	Jersey ...	29.56	64	58	SW 3	c	3
Shields ...	29.53	51	47	NNE 2	0	3	Dungeness ...	29.53	61	57	WSW 4	bc	3
Ardrossan ...	29.51	51	52	NE 3	0	2	London ...	29.50	64	60	SW 3	c	*
Malin Head ...	29.49	53	52	E 3	0	3	Yarmouth ...	29.51	60	57	Z 0	c	2
Mullaghmore ...	29.46	57	54	NE 3	0c	2	Rochefort ...	29.80	65	60	W 7	0	2
Belmullet ...	29.46	59	56	NNE 5	c	*							

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

The reports for yesterday morning showed that pressure was highest, 29.9 ins. and upwards, over Northern Russia and also over Spain, Algeria and the eastern part of the Mediterranean, and lowest 29.4 ins. and less, in two shallow areas lying respectively over Ireland and the south of Norway. The wind remained W^{1/2} or SW^{1/2} over France and the south of our Islands but over central and the greater part of Northern Europe it drew into the S^{1/2}, while, in the northern parts of the United Kingdom it was NE^{1/2}. The weather was fine in Algeria and the south of Italy, but cloudy or overcast elsewhere, with rain in many places.

Temperatures had fallen a little in our Islands as well as in Spain and the south of France, but risen in most other localities, readings ranged from 80° and upwards in Algeria and some parts of South Italy to 50° or less over the northern part of the United Kingdom. The highest individual readings were 92° at Biskra, 89° at Cagliari, 84° at Algiers and La Calle, 79° at Nemours, 74° at Oran, 70° at Palermo; the lowest were 48° at Samburgh Head, 49° at Stornoway, Aberdeen and Ardrossan, 50° at Christiansund, Leith, Shields, and Malin Head, 51° at Wick, and 52° at Archangel.

In the course of the day the depression over Ireland moved slowly southwards, and the NE^{1/2} winds on our northern coast became more general. Very little change was observed in the weather, showers being general and frequent, with thunderstorms in many places.

EXPLANATION OF COLUMNS GIVEN ON PAGE 1.

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

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

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

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DAILY WEATHER REPORT.

for SATURDAY, 7th JULY

1888.

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

STATIONS.		+ YESTERDAY EVENING.					8 A.M. TO DAY.										PAST 24 HOURS.		
		Barometer at 32° F. and Sea Level.	Temp. in Shade.	WIND.		Weather.	BAROMETER.		SHADE TEMP.			WIND.		Weather.	Sea (0 to 9.)	SHADE TEMP.		Amount of Rainfall.	
				Dir.	Force (0 to 12.)		Reading at 32° F. and Sea Level.	Difference from 8 a.m. yesterday.	Dry.	Wet.	Difference from 8 a.m. yesterday.	Dir.	Force (0 to 12.)			Max.	Min.		
SCANDINAVIA.	Haparanda ..	29.71	63	Z	0	b	29.60	- .20	59	52	- 3	NNE	4	b	*	77	53	-	
	Hernösand ...	29.69	52	Z	0	f	29.62	- .07	59	56	+ 3	E	2	b	*	66	50	-	
	Stockholm ...	29.60	61	ENE	2	bc	29.54	- .09	56	55	- 8	NNE	4	f	*	73	52	0.16	
	Wisby ...	29.56	59	WSW	2	f	29.57	- .05	58	55	- 6	WSW	2	f	*	73	54	0.39	
	Bodö ...	29.65	54	Z	0	o	29.72	+ .13	50	48	- 9	Z	0	o	0	63	50	-	
	Christiansund...	29.60	49	NNE	6	f	29.74	+ .14	48	47	- 1	N	2	f	2	52	45	0.28	
	Skudesnaes ...	29.69	51	NW	6	o	29.73	+ .14	49	47	- 4	NW	7	f	4	54	?	-	
	Christiania Fjord	29.62	58	SW	2	o	29.62	+ .04	58	58	- 4	SSW	2	o	2	63	57	-	
	(Færdar)																		
	Skagen (The Seaw)	29.62	54	NW	1	o	29.64	+ .06	56	52	+ 3	W	3	o	2	55	52	0.04	
BRITISH ISLANDS.	Fanö ...	29.69	53	NW	4	o	29.78	+ .19	52	48	- 3	NW	4	o	*	61	50	-	
	Sumburgh Head	29.82	47	NW	2	o	29.90	+ .17	48	45	+ 2	NW	1	b	2	50	40	0.01	
	Stornoway ..	29.91	50	NE	3	c	29.96	+ .16	52	50	+ 4	Z	0	b	2	54	32	-	
	Wick ...	29.89	49	N	2	o	29.94	+ .14	55	51	+ 7	N	2	bc	1	55	36	-	
	Nairn ...	29.87	52	ENE	1	o	29.95	+ .17	51	48	+ 3	W	1	b	0	56	40	-	
	Aberdeen...	29.88	50	N	2	c	29.97	+ .17	50	45	+ 3	NW	3	bc	2	52	44	-	
	Leith ...	29.86	53	E	1	c	29.97	+ .20	54	49	+ 3	SE	1	c	*	54	47	-	
	Shields ...	29.85	49	NNE	2	o	29.97	+ .26	49	45	0	N	2	c	3	52	41	-	
	Spurn Head ...	29.80	53	NNE	4	bc	29.96	+ .19	52	47	- 1	N	3	b	3	55	48	-	
	York ...	29.83	52	N	2	o	29.94	+ .24	50	46	- 2	N	1	c	*	56	41	-	
GERMANY.	Loughborough	29.80	54	NE	2	o	29.98	+ .31	50	48	- 1	NE	2	o	*	56	48	-	
	Ardrossan ...	29.84	54	N	1	o	29.96	+ .19	55	50	+ 4	Z	0	bc	0	56	47	-	
	Malin Head ...	29.86	52	N	3	b	29.98	+ .20	52	47	+ 3	NW	2	bc	2	53	48	-	
	Mullaghmore ...	29.87	55	NW	5	bc	30.01	+ .26	56	50	+ 3	Z	0	bc	0	58	42	-	
	Belmullet ...	29.90	54	ENE	5	b	30.03	+ .26	54	48	+ 1	NNE	2	b	*	57	48	-	
	Donaghadee ...	29.86	54	NE	3	bc	29.99	+ .22	54	51	+ 2	NE	3	c	2	60	50	-	
	Barrow-in-Furness	29.80	52	NE	2	o	29.97	+ .28	50	46	+ 1	NE	3	bc	*	58	46	-	
	Liverpool (Bidston)	29.82	54	ENE	2	o	29.98	+ .28	49	46	- 2	E	2	o	2	54	48	0.07	
	Holyhead ...	29.81	52	NNE	4	om	29.95	+ .27	51	49	- 1	NE	4	cm	4	55	49	0.06	
	Parsonstown ...	29.83	59	Z	0	o	29.99	+ .29	52	48	- 3	Z	0	b	*	61	45	-	
FRANCE & NETHERLANDS.	Valencia ...	29.80	61	E	1	op	30.00	+ .34	60	55	- 1	N	2	c	2	67	53	0.23	
	Roche's Point...	29.81	57	SE	2	o	29.97	+ .33	58	54	- 2	N	2	b	3	62	49	-	
	Pembroke ...	29.75	59	SE	1	m	29.93	+ .28	55	55	+ 2	ENE	2	opm	1	60	53	0.35	
	Scilly ...	29.75	64	Z	0	c	29.89	+ .23	61	57	- 2	NW	1	bc	3	66	54	-	
	Prawle Point ...	29.75	59	W	3	b	29.91	+ .24	59	57	0	ENE	2	c	1	62	52	-	
	Jersey ...	29.78	63	W	3	bc	29.90	+ .19	64	60	+ 6	W	1	bm	1	64	55	-	
	Hurst Castle ...	29.76	62	W	2	b	29.90	+ .26	59	57	0	ENE	2	cm	1	65	55	0.02	
	Dungeness ...	29.73	58	W	1	bc	29.90	+ .31	55	52	- 1	E	1	o	2	62	52	0.15	
	London ...	29.76	57	N	1	o	29.94	+ .32	53	52	- 3	NNE	1	ogm	*	62	51	1.05	
	Oxford ...	29.81	53	NE	3	o	29.95	+ .31	52	50	- 3	NE	1	og	*	57	50	-	
PENINSULA.	Cambridge ...	29.73	56	N	1	o	29.97	+ .34	53	51	- 1	NNE	1	o	*	59	48	0.03	
	Yarmouth ...	29.75	55	N	2	o	29.93	+ .33	53	51	- 3	NNE	3	c	3	58	51	0.02	
	Cuxhaven ...	29.70	57	N	3	f	29.85	+ .21	56	54	- 4	NW	3	c	*	62	55	0.08	
	Berlin ...	29.72	62	SSW	1	c	29.82	+ .12	64	58	+ 1	NW	2	o	*	72	54	-	
	Wiesbaden ...	*	*	*	*	*	29.91	+ .14	61	57	+ 1	SW	2	c	*	70	54	0.12	
	Munich ...	29.92	58	SW	2	o	30.02	+ .09	59	57	+ 4	SW	5	f	*	70	52	0.28	
	The Helder ...	29.73	57	N	1	f	29.90	+ .28	55	51	- 1	NNE	1	c	1	63	52	0.55	
	Brussels ...	*	*	*	*	*	29.91	+ .25	58	56	- 1	WSW	3	o	*	64	54	0.47	
	Cape Gris Nez...	29.73	58	SW	4	bc	29.90	+ .31	57	55	+ 1	N	1	c	0	61	54	-	
	Paris ...	29.75	?	SW	3	c	29.93	+ .20	59	57	- 1	SSW	1	bc	*	70	53	0.04	
FRANCE & NETHERLANDS.	Brest ...	30.00	63	W	3	b	29.74	?	53	?	+ 1	ENE	1	o	1	72	52	-	
	Lorient ...	29.90	64	WSW	4	b	29.87	+ .11	58	58	- 1	NNE	1	c	4	64	57	0.08	
	Rochefort ...	29.91	65	W	5	c	29.97	+ .12	60	59	- 3	WSW	4	f	2	?	54	0.16	
	Belfort ...	29.94	64	N	1	c	29.97	+ .10	64	57	+ 4	NW	1	bc	*	72	50	0.04	
	Lyons ...	29.88	61	WSW	1	o	29.95	+ .05	64	60	+ 7	NNE	1	c	*	74	54	-	
	Nice ...	29.87	71	SW	4	c	29.95	+ .15	61	59	- 7	NE	3	o	2	74	55	0.24	
	Perpignan ...	29.87	69	NE	4	o	29.93	+ .03	63	62	0	NE	3	o	*	74	62	0.04	
	Biarritz ...	29.89	67	NNE	4	o	29.95	+ .06	60	59	- 1	SSE	3	f	2	72	59	0.12	
	Corunna ...	*	*	*	*	*	30.07	+ .06	63	59	- 2	NNE	3	b	5	66	57	0.28	
	Lisbon ...	29.96	61	SW	5	bc													

For Explanation of Columns, see p. 4. 3 At the Meteorological Office, Westminster, May 0 6 11. 2 Received too late for insertion in Charts on p. 2.

WEATHER CHARTS

for 8 a.m. on *Saturday, 7th July,*

1888.

BAROMETER, WIND & SEA.

(Explanation of Map)

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

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

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

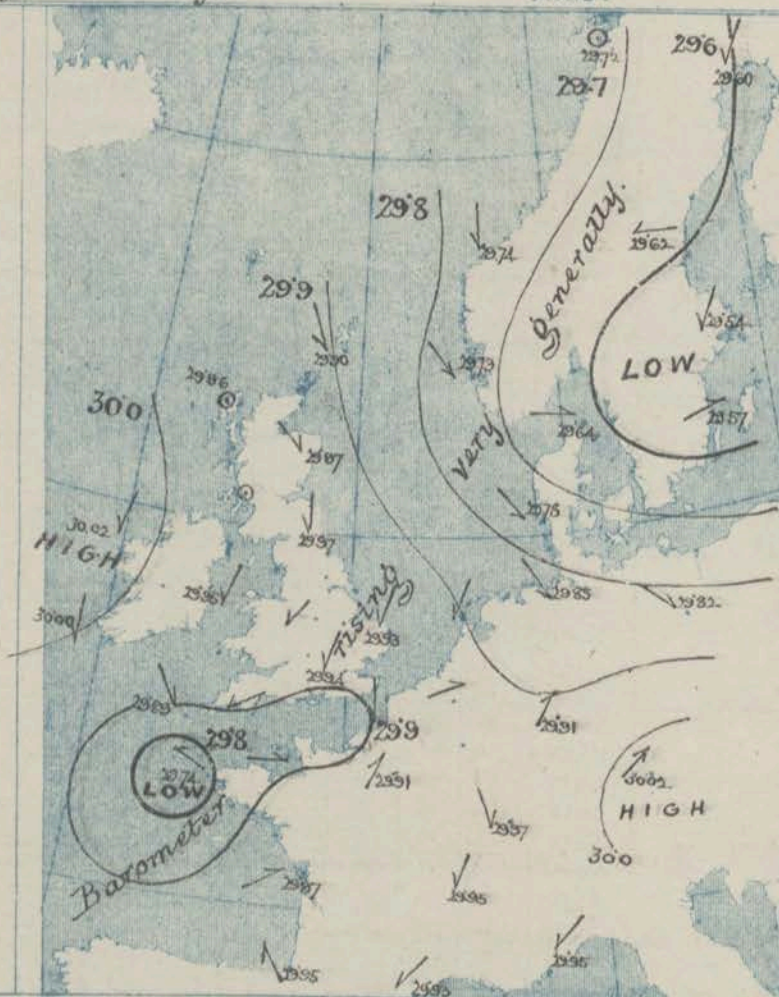
Sea Disturbance — where considerable, is shown thus.

■ = Rough; ■ = High.

MEAN HEIGHT of the BAROMETER

at 8 a.m. for the month of July
During the 15 Years 1871 — 1885.

STATIONS.	MEAN READINGS.
	ins.
Sumburgh Head	29.794
Stornoway	29.797
Wick	29.810
Nairn	29.821
Aberdeen	29.831
Leith	29.850
Shields	29.876
York	29.910
Loughborough	29.936
Ardrossan	29.862
Donaghadee	29.881
Holyhead	29.918
Liverpool	29.913
Parsonstown	29.921
Valencia	29.939
Roche's Point	29.938
Pembroke	29.942
Scilly	29.984
Jersey	30.009
Hurst Castle	29.974
Dover	29.970
LONDON	29.967
Oxford	29.953
Cambridge	29.947
Yarmouth	29.943



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

Temperature — Isotherms are drawn for each 10° changes since previous morning are stated in words.

Weather is shown by Letters of the Beaufort Scale.

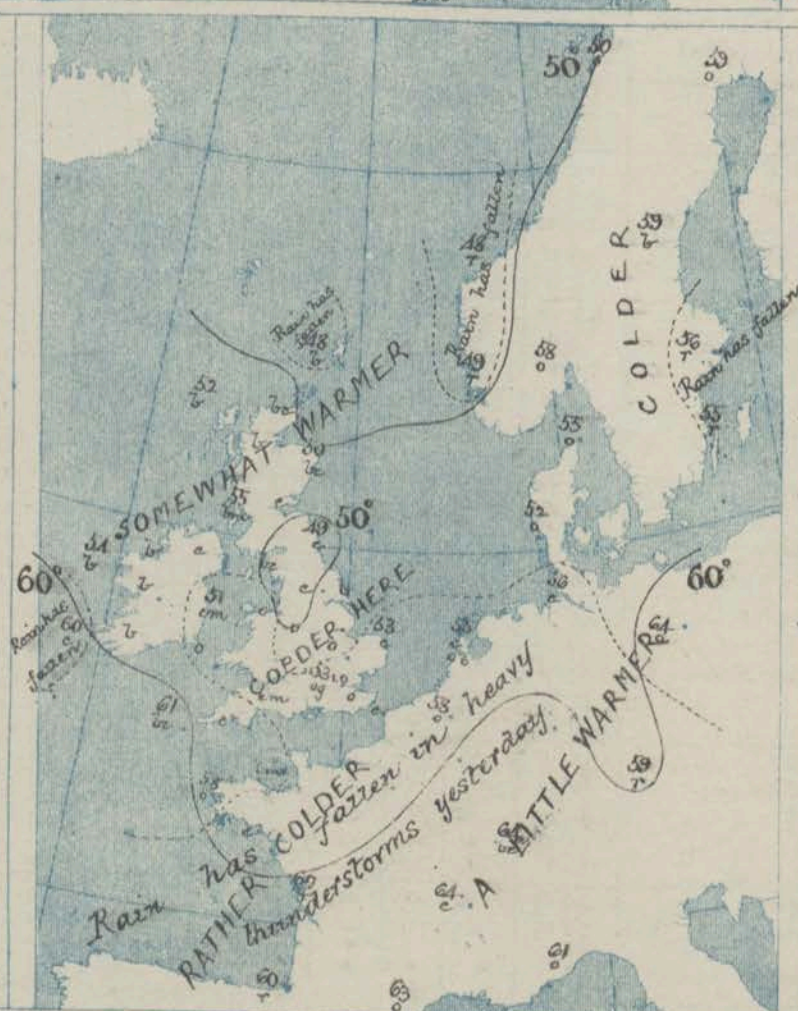
Rainfall A dotted line separates the districts in which rain has fallen from those where there has been none. Falls of 0.5 in. or more, are quoted in figures.

MEANS OF TEMPERATURE IN SHADE.

AND RAINFALL.
for the month of July.

STATIONS.	TEMPERATURE.				RAINFALL. (Inches)
	Daily Max.	Daily Min.	at 8 a.m. Dry.	Wet.	
Sumburgh Head	57.8	48.3	58.6	52.0	2.09
Stornoway	60.2	49.5	56.0	54.0	3.02
Wick	62.2	49.2	56.1	53.8	2.25
Nairn	64.7	51.4	57.2	53.6	2.57
Aberdeen	64.4	51.1	58.0	54.4	2.74
Leith	67.1	51.7	58.6	55.3	2.84
Shields	64.4	52.9	58.6	55.4	2.63
York	68.5	52.1	59.4	56.2	2.57
Loughborough	72.1	53.0	62.0	58.2	2.34
Ardrossan	63.9	53.2	57.5	54.8	2.91
Donaghadee	63.1	51.6	57.4	55.6	2.67
Holyhead	63.9	54.7	58.2	55.9	2.32
Liverpool	66.1	54.4	59.6	55.9	2.99
Parsonstown	66.4	51.9	58.3	54.8	3.01
Valencia	64.1	53.6	58.7	56.3	3.91
Roche's Point	66.7	53.3	58.7	55.8	3.16
Pembroke	62.9	55.0	58.1	55.9	2.31
Scilly	64.5	56.3	60.1	58.0	2.29
Jersey	68.8	56.3	62.2	59.2	2.21
Hurst Castle	67.9	55.7	61.3	58.8	2.15
Dover	67.2	56.9	62.6	58.8	1.82
LONDON	73.0	54.1	62.3	58.1	2.17
Oxford	69.9	53.7	60.2	56.8	2.51
Cambridge	72.3	52.4	61.4	57.9	2.30
Yarmouth	66.8	55.2	61.2	58.1	2.68

Note — The Temperature means are for the 15 years 1871 — 85, the Rainfall means are mainly those for the 20 years 1866 — 85.



GENERAL SITUATION AT 8 A.M.

PRESSURE

Highest, 30.07 ins. at Lubeck; 30.0 ins. and upwards over the west of Ireland and also over East Germany.
 Lowest, 29.6 ins. and less, in a large area lying over Finland and the south of Sweden. Shallow depressions are lying over the Channel, the mouth of the Rhine, and the south of France.
 Gradients slight and irregular. Barometer rising at all but the Swedish stations.

TEMPERATURE

Highest, 64° at Jersey, Berlin, Belfast and Lyons, 63° at Copenhagen and Lubeck, and 61° at Kirschen and Kiev.
 Lowest, 48° at Christiansund and Lumburg Head, 45° at Kudenae, Thiers and Liverpool.
 The maxima registered yesterday were below 60° at all but our extreme southwestern and southern stations.

WIND

Light N^W in all the more western and northern parts of our Islands, NE^W in the south.
 Variable in France, SW^W in Germany; NW^W on the eastern shores of the North Sea.

WEATHER

Fine in the southwest, west, and north of our Islands.
 Cloudy elsewhere with rain in the south of Norway, the south of Sweden, and the southwest of France.
 Thunderstorms occurred yesterday at many of the English and French stations.

SEA

Moderate at Kudenae, Heligoland, and Lorient, but slight or smooth elsewhere.

PROBABLE CHANGES IN SYSTEM NOW PREVALENT

The indications this morning are somewhat less unfavourable than of late, and a gradual improvement in the weather is probable in most districts.

Over the south of our Islands, ^{however} conditions are likely for the present to remain under the influence of low-pressure systems, and slight rain is therefore probable in many places.

FORECASTS

for the 24 hours ending at NOON on 8TH JULY 1883.

DISTRICTS.

FORECASTS.

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

N^W winds, light or moderate; fair generally.
 NE^W winds, light; cloudy generally, with rain in places.

DISTRICTS.

FORECASTS.

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

NE^W winds, light; fair generally.

Same as N°5.

Same as N°6 and 7.

WARNINGS

NONE ISSUED.

Note.—The South Cone, point downwards (∇) means that gales, or strong winds, are probable, at first from the Southward (from S.E. round by S. to N.W.) Should it appear likely that a gale beginning from between W. and N.W. is likely to veer towards N. or N.E., the North Cone is hoisted in preference to the South Cone.

The North Cone, point upwards (∆) means that gales, or strong winds, are probable, at first from the Northward (from N.W. round by N. to S.E.) Should it appear likely that a gale beginning from between E. and S.E. is likely to veer towards S. or S.W., the South Cone is hoisted in preference to the North Cone.

YESTERDAY'S 2 P.M. REPORTS.

	Bar.	Dry.	Wet.	Wind.	Woa.	Sea.		Bar.	Dry.	Wet.	Wind.	Woa.	Sea.
Skudesnaes ...	29.67	51	48	NW 6	0	4	Holyhead ...	29.77	52	52	NE 4	om	4
Sumburgh Head ...	29.88	52	52	NE 4	c	3	Valencia ...	29.75	62	59	NE 2	p	3
Stornoway ...	29.85	51	46	N 2	cp	2	Sailly ...	29.73	66	61	SSW 2	c	4
Aberdeen ...	29.82	51	48	NNE 3	0	3	Jersey ...	29.77	63	59	WSW 3	bc	3
Shields ...	29.82	56	52	NE 1	0	1	Dungeness ...	29.69	57	56	NW 4	tp	3
Ardrossan ...	29.87	55	49	N 3	b	3	London ...	29.72	60	58	N 1	0	*
Malin Head ...	29.84	56	52	N 4	cv	3	Yarmouth ...	29.70	58	56	NNE 4	c	3
Mullaghmore ...	29.87	55	51	NNE 5	c	*	Rochefort ...	29.91	66	62	W 7	c	2
Belmullet ...													

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

The reports for yesterday morning showed that pressure was highest 29.9 ins. and upwards over Southern Europe and the Mediterranean, and relatively high 29.8 ins. and upwards over Finland and the extreme north of our Islands. The lowest pressures 29.6 ins. and less, were found in a large area lying over Norway, and also in smaller depressions lying respectively off the south-east of England and over Central Russia. Over Central and Southern Europe the wind was SW^{ly} or W^{ly} but over the Baltic and Sweden it was SE^{ly}, while in the northern parts of the United Kingdom it was chiefly NE^{ly}. The weather was cloudy or overcast in most places, with mist or fog in many parts of Western Europe and local thunderstorms. Temperature had risen a little in Austria and Russia, but fallen elsewhere; readings ranged from 75° and upwards at several of the Italian and Algerian stations to 50° or less, over the northern parts of our Islands. The highest individual readings were 89° at Trieste, 86° at Algiers, 81° at Palermo and La Galle, 80° at Brindisi, 79° at Oran, and 78° at Fashouat; the lowest were 46° at Sumburgh H., 47° at Aberdeen, 48° at Stornoway, Kirk and Kairn, and 49° at Christiansund, Shields, Malin Head, and Harrow in Fennoscandia.

In the course of the day the barometer rose in all parts of Western Europe and the depression off the south-east of England gradually dispersed. The weather, however, remained very unsettled, and severe thunderstorms, with heavy rain were reported at many of the English and French stations.

EXPLANATION OF COLUMNS GIVEN ON PAGE 1.

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

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

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

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

DAILY WEATHER REPORT.

for Sunday 8th JULY 1888.
Issued by the Meteorological Office, 116, Victoria Street, London. R. H. SCOTT, Secretary.

STATIONS.	† YESTERDAY EVENING.						8 A.M. TO DAY.										PAST 24 HOURS.		
	Barometer at 32° F. and Sea Level.	Temp. in Shade.	WIND.		Weather.		BAROMETER.		SHADE TEMP.			WIND.		Weather.	Sea. (0 to 2.)		SHADE TEMP.		Amount of Rain (in).
			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.	
SCANDINAVIA.																			
Haparanda ..	29.41	51	N	6	r		29.32	-.28	30	48	-9	NW	6	r	*		61	48	0.20
Hernösand ...	29.54	62	SW	2	c		29.52	-.10	64	55	+5	NE	4	c	*		77	46	-
Stockholm ...	29.54	56	Z	0	o		29.52	-.02	65	53	-1	WNW	2	o	*		63	45	1.26
Wisby ...	29.65	57	W	4	o		29.67	+ .10	54	50	-1	W	6	o	*		63	54	0.20
Bodö ...	29.72	50	W	2	o		29.69	-.03	47	45	-3	W	4	r	2		52	46	0.12
Christiansund...	29.84	46	NNE	3	r		29.83	+ .09	47	45	-1	N	1	f	1		48	43	0.28
Skudesnaes ...	29.77	50	SW	8	o		29.83	+ .10	51	46	+2	NW	5	bc	3		57	40	-
Christiania Fjord (Færdar)	29.60	58	SSE	2	b		29.61	-.01	57	54	-1	N	5	o	3		59	54	-
Skagen (The Sound)	29.63	52	WNW	6	c		29.60	-.04	55	52	0	WNW	5	b	4		59	50	-
Fanö ...	29.86	51	WNW	4	o		29.86	+ .08	54	49	+2	WNW	5	c	*		57	48	-
BRITISH ISLANDS.																			
Sumburgh Head	29.94	52	WNW	1	b		29.85	-.05	52	49	+4	W	1	o	1		54	43	-
Stornoway ...	29.94	58	SW	3	c		29.88	-.08	53	52	+1	SW	3	o	3		58	43	0.04
Wick ...	29.97	56	N	2	b		29.90	-.04	57	54	+2	N	2	bc	1		60	38	-
Nairn ...	29.95	58	ENE	1	c		29.91	-.04	56	50	+5	SW	2	bc	1		62	44	-
Aberdeen...	30.01	52	SE	2	b		29.95	-.02	58	50	+8	S	1	b	1		58	46	-
Leith ...	29.99	56	SW	1	c		29.99	+ .02	56	51	+2	W	3	bc	*		57	46	-
Shields ...	30.02	57	E	1	c		30.01	+ .04	51	47	+2	W	3	b	2		54	43	-
Spurn Head ...	30.03	52	NE	1	b		30.04	+ .08	55	52	+3	SW	3	c	2		55	48	-
York ...	30.03	57	N	1	o		30.04	+ .10	54	50	+4	WNW	1	b	*		60	47	-
Loughborough	30.04	57	E	1	c		30.08	+ .10	53	51	+3	W	1	o	*		59	47	-
Ardrossan ...	30.00	57	W	3	b		29.99	+ .03	55	52	0	SSE	3	c	2		59	47	-
Malin Head ...	30.01	57	WNW	3	bc		29.97	-.01	53	53	+1	W	4	o	3		58	50	0.15
Mullaghmore ...	30.08	57	WNW	4	bc		30.05	+ .04	55	53	-1	WSW	5	o	3		59	51	-
Belmullet ...	30.10	57	WNW	2	b		30.06	+ .03	54	52	-2	WNW	4	o	*		58	51	0.02
Donaghadee ...	30.06	55	NE	2	c		30.04	+ .05	57	54	+3	SW	3	c	2		60	47	-
Barrow-in-Furness	30.01	58	NW	3	b		30.05	+ .08	55	51	+5	SW	2	b	*		59	50	-
Liverpool (Bidston)	30.03	54	NNE	1	bc		30.07	+ .09	57	48	+8	WNW	1	o	2		58	49	-
Holyhead ...	30.03	54	NNE	3	c		30.07	+ .12	60	56	+4	Z	0	b	0		61	49	-
Parsonstown ...	30.06	60	Z	0	c		30.11	+ .12	56	52	+4	Z	0	c	*		62	44	-
Valencia ...	30.11	58	N	2	bc		30.17	+ .17	58	55	-2	NW	1	o	2		62	49	-
Roche's Point...	30.06	60	N	2	b		30.14	+ .17	55	52	-3	WNW	2	bc	2		62	49	-
Pembroke ...	30.02	55	NE	3	o		30.08	+ .15	57	53	+2	N	2	b	0		57	49	-
Scilly ...	29.96	60	N	4	cm		30.09	+ .20	59	54	-2	N	3	b	3		66	55	-
Prawle Point ...	30.00	56	E	1	b		30.07	+ .16	56	55	-3	SW	2	ogm	1		63	52	-
Jersey ...	30.00	63	NW	2	b		30.07	+ .17	54	54	-10	NW	1	ogm	1		66	52	-
Hurst Castle ...	30.00	57	WSW	2	m		30.08	+ .18	53	52	-6	ESE	2	r	0		63	52	0.33
Dungeness ...	29.98	58	E	4	b		30.05	+ .15	55	52	0	E	4	c	3		61	51	-
London ...	30.01	56	SE	1	og		30.07	+ .13	56	50	+3	SE	1	bc	*		57	51	-
Oxford ...	30.04	54	Z	0	o		30.08	+ .13	56	51	+4	SSE	1	c	*		58	50	-
Cambridge ...	30.03	56	N	1	o		30.08	+ .11	56	51	+3	Z	0	bc	*		58	43	-
Yarmouth ...	30.01	54	NNE	2	bc		30.07	+ .14	53	50	0	NNE	1	b	2		56	44	-
Cuxhaven ...	29.97	57	NNW	3	o		29.99	+ .14	54	51	-2	NNW	4	o	*		57	51	-
Berlin ...	29.54	65	NW	1	o		29.97	+ .15	56	50	-8	NW	3	b	*		70	52	0.04
Wiesbaden ...	*	*	*	*	*		30.03	+ .12	64	58	+3	Z	0	c	*		72	55	0.12
Munich ...	30.01	58	NE	2	o		30.05	+ .03	59	56	0	NW	4	o	*		72	54	0.16
FRANCE & NETHERLANDS.																			
The Helder ...	30.00	53	NNW	1	c		30.05	+ .15	53	49	-2	WNW	3	c	2		55	52	-
Brussels ...	*	*	*	*	*		30.07	+ .16	53	50	-5	NE	1	o	*		68	50	0.08
Cape Gris Nez...	29.97	55	ENE	5	bc		30.04	+ .14	54	51	-3	ENE	5	bc	2		63	50	-
Paris ...	29.96	61	E	1	c		30.04	+ .11	55	56	-3	NE	1	o	*		72	55	0.43
Brest ...	30.03	62	N	3	b		30.11	+ .12	57	56	-1	Z	0	b	2		70	52	-
Lorient ...	30.01	64	NW	4	bc		30.09	+ .22	57	55	-1	NNE	3	o	4		68	55	-
Rochefort ...	30.08	65	WNW	5	bc		30.12	+ .15	63	59	+3	W	5	bc	2		70	55	0.08
Belfort ...																			
Lyons ...	30.01	58	ESE	1	o		30.09	+ .14	59	56	-5	NNW	1	bc	*		77	53	0.24
Nice ...	29.95	68	W	1	c		29.86	-.09	71	62	+10	E	1	b	1		71	59	0.08
Perpignan ...	30.01	67	WNW	3	r		30.08	+ .15	68	59	+5	N	3	o	*		75	57	0.08
Biarritz ...	30.12	67	W	4	b		30.15	+ .20	60	58	0	SSW	4	o	2		68	57	0.16
PORTUGAL.																			
Corunna ...	*	*	*	*	*		30.17	+ .13	66	63	+1	WNW	1	o	1		65	54	0.05
Lisbon ...	30.14	64	NNW	7	b		30.15	+ .08	62	56	-1	NNE	5	b	3		72	57	-

For Explanation of Columns, see p. 4.

† Received too late for insertion in Charts on p. 2.

WEATHER CHARTS

for 8 a.m. on

Sunday, 8th July

BAROMETER, WIND & SEA.

(Explanation of Map)

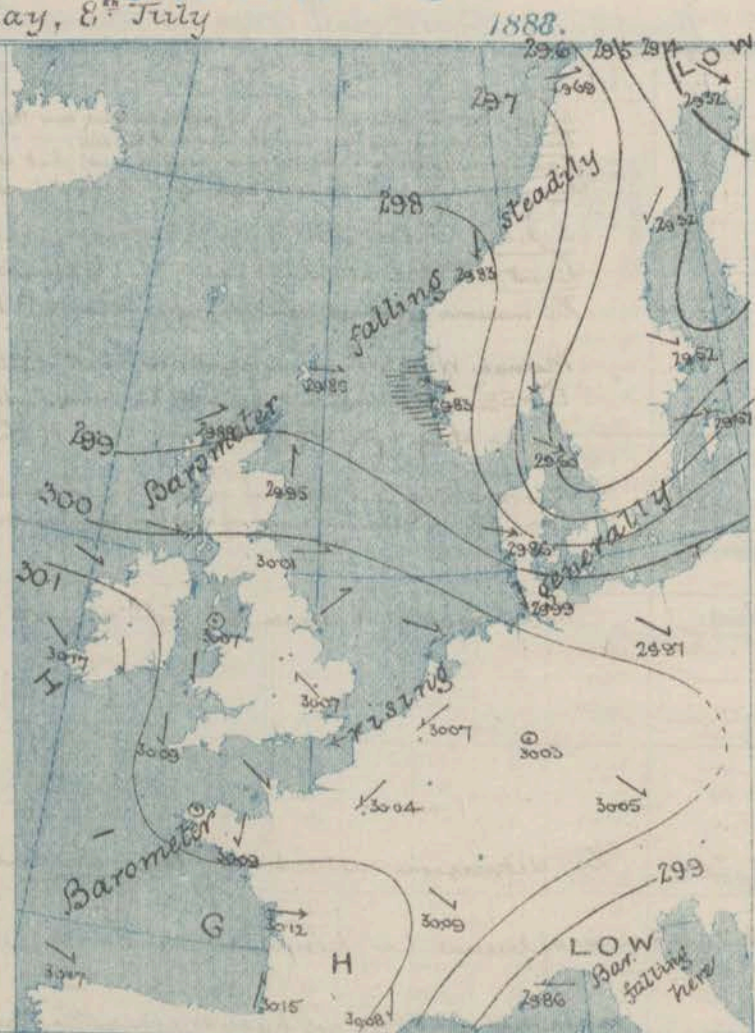
Barometer — Isobars are drawn for each tenth of an inch. Changes since previous morning are stated in words.
Wind — Arrows show the prevalent winds. They fly with the wind and their barbs and feathers refer to force, thus —
 * — forces above 10; — forces 8 to 10;
 — forces 5 to 7; — forces 1 to 4;
 ○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

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

MEAN HEIGHT of the BAROMETER

at 8 a.m. for the month of July
 During the 15 Years 1871—1885.

STATIONS.	MEAN READINGS.
Sumburgh Head	29.794
Stornoway	29.797
Wick	29.810
Nairn	29.821
Aberdeen	29.831
Leith	29.850
Shields	29.876
York	29.910
Loughborough	29.936
Ardrossan	29.862
Donaghadee	29.881
Holyhead	29.918
Liverpool	29.913
Parsonstown	29.921
Valencia	29.939
Roehe's Point	29.938
Pembroke	29.942
Scilly	29.984
Jersey	30.009
Hurst Castle	29.974
Dover	29.970
LONDON	29.987
Oxford	29.953
Cambridge	29.947
Yarmouth	29.943



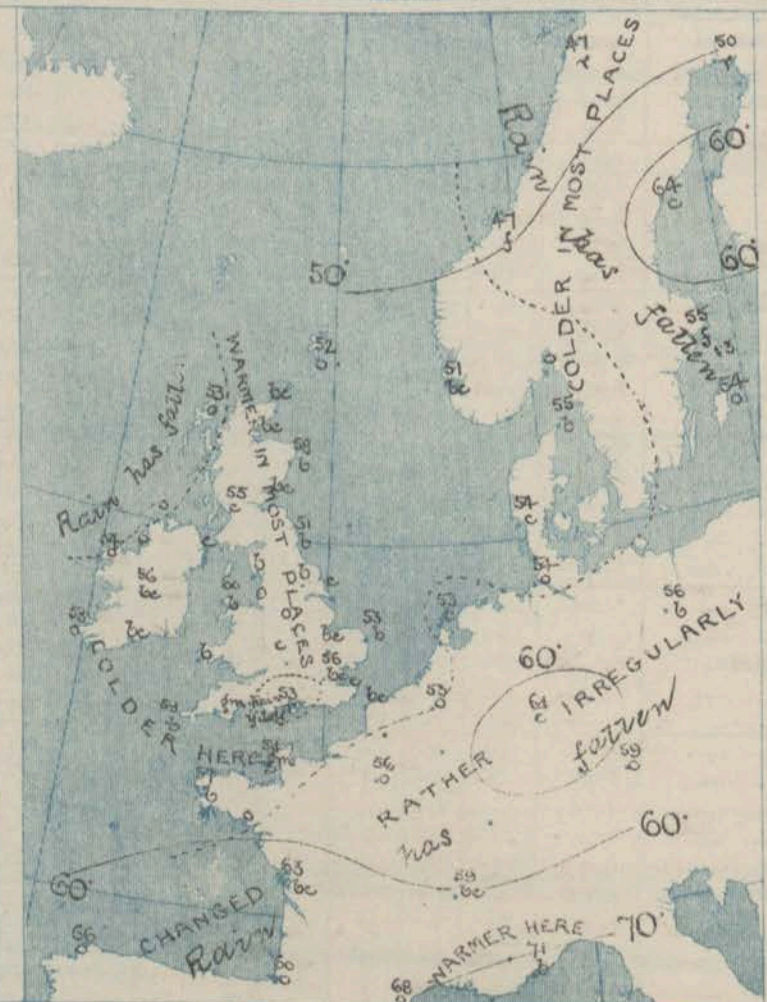
TEMPERATURE, & WEATHER at 8 A.M., with RAINFALL in PAST 24 HOURS.

Temperature — Isotherms are drawn for each 10° changes since previous morning are stated in words.
Weather — is shown by Letters of the Beaufort Scale.
Rainfall — A dotted line separates the districts in which rain has fallen from those where there has been none. Falls of .05 in. or more, are quoted in figures.

MEANS OF TEMPERATURE IN SHADE. AND RAINFALL. for the month of July

STATIONS.	TEMPERATURE.				RAINFALL. (Inches.)
	Daily Max.	Daily Min.	at 8 a.m.		
			Dry.	Wet.	
Sumburgh Head	57.8	48.3	53.6	52.0	2.09
Stornoway	60.2	49.5	56.0	54.0	3.02
Wick	62.2	49.2	56.1	53.8	2.25
Nairn	64.7	51.4	57.2	53.6	2.57
Aberdeen	64.4	51.1	58.0	54.4	2.74
Leith	67.1	51.7	58.6	55.3	2.84
Shields	64.4	52.9	58.6	55.4	2.63
York	68.5	52.1	59.4	56.2	2.57
Loughborough	72.1	53.0	62.0	58.2	2.34
Ardrossan	63.9	53.2	57.5	54.8	2.91
Donaghadee	63.1	51.6	57.4	55.6	2.67
Holyhead	63.9	54.7	58.2	55.9	2.32
Liverpool	66.1	54.4	59.6	55.9	2.99
Parsonstown	66.4	51.9	58.3	54.8	3.01
Valencia	64.1	53.6	58.7	56.3	3.91
Roche's Point	66.7	53.3	58.7	55.8	3.16
Pembroke	62.9	55.0	58.1	55.9	2.31
Scilly	64.5	56.3	60.1	58.0	2.29
Jersey	68.8	56.3	62.2	59.2	2.21
Hurst Castle	67.9	55.7	61.3	58.8	2.15
Dover	67.2	56.9	62.6	58.8	1.82
LONDON	73.0	54.1	62.3	58.1	2.17
Oxford	69.9	53.7	60.2	56.8	2.51
Cambridge	72.3	52.4	61.4	57.9	2.30
Yarmouth	66.8	55.2	61.2	58.1	2.68

NOTE — The Temperature means are for the 15 years 1871—85, the Rainfall means are mainly those for the 20 years 1866—85



GENERAL SITUATION AT 8 A.M.

PRESSURE

Highest, 30.1 in. and upwards, in a large area lying over the Bay of Biscay, Spain, the southwest of France and the south of Ireland.
 Lowest, 29.4 in. and less, over the north of Sweden.
 Gradients moderate over Scandinavia and Denmark, but slight elsewhere.
 Barometer falling in the west and north of our Islands, and also in Denmark, but rising elsewhere.

TEMPERATURE

Highest, 71° at Ales, 68° at Inverness, 66° at Ayr, 64° at Humber and Newcastle, and 63° at Rochefort.
 Lowest, 41° at Huddersfield and Christiansburg, 50° at Haparanda, 51° at Skutumpah, 52° at Lumburg, H., and 53° at Lonsbury and Malin H.
 The maxima registered yesterday were below 60° at nearly all our southern, eastern, and central stations.

WIND

Moderate W. or S.W. on our northern coasts, light N.W. in the southwest.
 E. or S.E. in the southeast, variable in France and the Netherlands.
 Fresh or strong from N.W. on the eastern shores of the North Sea.

WEATHER

Fair generally, but dull at most of the Channel stations, with rain at Hunt Castle.
 Rain fell yesterday at most of the Continental stations, and showers at some of our extreme northwestern and northern stations.

SEA

Rather rough at Skutumpah, but slight or smooth elsewhere.

PROBABLE CHANGES IN SYSTEM NOW PREVALENT

The depressions noticed yesterday to the southward of our Islands have almost entirely filled up, and the general distribution of pressure has become somewhat more regular than of late.

These disturbances are, however, approaching our extreme northern coasts so that conditions are scarcely settled.

FORECASTS

for the 24 hours ending at NOON on

1888.

DISTRICTS.

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

FORECASTS.

DISTRICTS.

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

FORECASTS.

WARNINGS

Note.—The **South Cone**, point downwards (↓) means that gales, or strong winds, are probable, at first from the Southward (from S.E. round by S. to N.W.) Should it appear likely that a gale beginning from between W. and N.W. is likely to veer towards N. or N.E., the **North Cone** is hoisted in preference to the South Cone.
 The **North Cone**, point upwards (↑) means that gales, or strong winds, are probable, at first from the Northward (from N.W. round by N. to S.E.) Should it appear likely that a gale beginning from between E. and S.E. is likely to veer towards S. or S.W., the **South Cone** is hoisted in preference to the North Cone.

YESTERDAY'S 2 P.M. REPORTS.

	Bar.	Dry.	Wet.	Wind.	Wea.	Sea.		Bar.	Dry.	Wet.	Wind.	Wea.	Sea.		
Skudesnæs ...	29.75	51	47	NH	7	0	4	Holyhead ...	30.01	54	51	NNE	4	c	4
Sumburgh Head ...	29.93	53	48	NH	1	6	2	Valencia ...	30.08	62	57	N	3	bcm	3
Stornoway ...	29.96	52	53	SH	4	c	3	Scilly ...	29.96	65	59	WEN	2	b	3
Aberdeen ...	30.01	54	49	ESE	1	c	1	Jersey ...	29.96	64	57	NNW	3	b	3
Shields ...	30.01	54	48	E	2	c	3	Dungeness ...	29.95	60	58	E	1	c	1
Ardrossan ...	29.99	52	52	SH	3	6	2	London ...	30.00	56	54	EST	1	o	*
Malin Head ...	30.03	55	51	NH	1	0	0	Yarmouth ...	30.00	56	50	NNE	4	bcm	3
Mullaghmore ...	30.06	56	52	NH	4	c	3	Rochefort ...	30.03	69	64	W	5	bc	2
Belmullet ...	30.10	56	49	NNW	2	bc	*								

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

The Continental Information to follow.

EXPLANATION OF COLUMNS GIVEN ON PAGE 1.

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

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

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

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

DAILY WEATHER REPORT.

for MONDAY 9th JULY 1888.
Issued by the Meteorological Office, 116, Victoria Street, London. R. H. SCOTT, Secretary.

Issued by the Meteorological Office, 46, Victoria Street, London, W. 1.																		
STATIONS.	† YESTERDAY EVENING.					8 A.M. TO DAY.										PAST 24 HOURS.		
	Barometer at 32° F. and Sea Level.	Temp. in Shade.	WIND.		Weather.	BAROMETER.		SHADE TEMP.			WIND.		Weather.	Sea. (0 to 2.)	SHADE TEMP.		Amount of Rainfall.	
			Dir.	Force (0 to 12.)		Reading at 32° F. and Sea Level.	Difference from 8 a.m. yesterday.	Dry.	Wet.	Difference from 8 a.m. yesterday.	Dir.	Force (0 to 12.)			Max.	Min.		
SCANDINAVIA.																		
Haparanda ..	29.43	48	NW	4	r	29.46	+ .04	48	46	- 2	NW	2	0	*	52	45	0.08	
Hernösand ...	29.54	61	NW	2	b	29.62	+ .10	55	49	- 9	N	4	0	*	73	54	-	
Stockholm ...	29.57	56	L	0	r	29.56	+ .04	56	54	+ 1	N	2	0	*	61	50	0.28	
Wisby ...	29.69	55	SSW	6	0	29.59	- .08	55	54	+ 1	SW	4	r	*	59	52	0.04	
Bodö ...	29.68	47	W	4	0	29.69	+ .01	46	45	- 1	W	2	0	1	45	45	0.04	
Christiansund...	29.83	52	WNW	2	c	29.75	- .08	49	46	+ 2	NE	2	0	2	54	43	-	
Skudesnaes ...	29.87	52	NW	2	b	29.65	- .18	55	50	+ 4	SW	4	r	3	55	51	-	
Christiania Fjord (Fjord)	29.67	59	WNW	4	0	29.68	+ .07	57	50	0	N	2	c	2	59	55	-	
Skagen (The Scaw)	29.70	55	WNW	1	0	29.71	+ .11	55	51	0	WNW	6	b	4	68	50	0.08	
Fanö ...	29.98	51	WNW	5	b	29.87	+ .11	57	53	+ 3	W	4	c	*	57	50	-	
Samburgh Head	29.79	51	WSW	1	c	29.56	- .29	50	50	- 2	SSE	1	r	2	56	48	0.27	
Stornoway ...	29.78	57	SW	4	c	29.62	- .26	52	52	- 1	SW	5	r	5	58	49	0.06	
Wick ...	29.82	52	SE	1	p	29.54	- .36	55	54	- 2	NW	2	0	1	60	51	0.30	
Nairn ...	29.82	56	SW	1	c	29.60	- .31	56	54	0	W	3	c	2	63	53	0.02	
Aberdeen...	29.86	58	ENE	1	cp	29.61	- .34	58	55	0	SSW	2	bcp	9	63	52	0.02	
Leith ...	29.91	50	W	5	bc	29.69	- .30	57	55	+ 1	W	4	cpm	*	61	54	0.02	
Shields ...	29.92	60	W	3	c	29.70	- .28	60	54	+ 9	WSW	2	0	2	64	49	-	
Spurn Head ...	30.00	58	SW	1	bc	29.89	- .15	58	55	+ 3	SW	4	bc	2	62	50	-	
York ...	30.00	62	N	2	b	29.88	- .16	57	54	+ 3	WSW	4	0	*	65	50	-	
Loughborough	30.03	61	SW	1	0	29.95	- .13	56	53	+ 3	WSW	4	0	*	64	47	-	
BRITISH ISLANDS.																		
Ardrossan ...	29.95	54	WSW	3	r	29.73	- .26	55	52	0	WNW	4	dp	3	56	51	0.05	
Malin Head ...	29.96	55	WSW	4	ogp	29.80	- .17	52	51	- 1	NW	5	og	4	56	52	0.15	
Mullaghmore ...	29.99	55	WSW	5	0	29.89	- .16	56	56	+ 1	WNW	5	ad	4	59	53	0.24	
Belmullet ...	30.00	56	W	4	0	29.94	- .12	55	55	+ 1	NW	3	0	*	56	54	0.12	
Donaghadee ...	30.00	59	WNW	3	r	29.81	- .28	58	57	+ 1	W	4	0	3	61	54	0.16	
Barrow-in-Furness	30.04	57	SW	3	0	29.85	- .20	55	54	0	SW	5	0	*	59	54	-	
Liverpool (Bidston)	30.05	57	WNW	3	b	29.92	- .17	56	55	- 1	WSW	2	0	2	62	53	0.01	
Holyhead ...	30.06	57	SSW	4	c	29.91	- .16	55	54	- 5	SW	4	om	3	63	53	-	
Parsonstown ...	30.07	56	L	0	r	29.95	- .16	58	56	+ 2	WSW	1	0	*	61	54	0.08	
Valencia ...	30.14	58	W	2	r	30.07	- .10	58	57	0	W	8	om	3	61	55	0.60	
Roche's Point...	30.12	60	WNW	2	c	30.02	- .12	60	57	+ 5	WNW	3	c	3	61	54	0.04	
Pembroke ...	30.10	58	W	3	b	30.00	- .08	56	56	- 1	WSW	3	c	3	58	55	-	
Soilly ...	30.14	60	NW	4	c	30.09	00	57	56	- 2	WNW	5	ap	4	60	54	0.05	
Prawle Point ...	30.10	57	SSW	1	c	30.10	+ .03	55	55	- 1	WSW	3	c	2	64	50	-	
Jersey ...	30.09	60	WNW	2	b	30.15	+ .08	59	56	+ 5	WSW	3	bcm	3	61	51	-	
Hurst Castle ...	30.08	56	W	3	b	30.07	- .01	58	57	+ 5	WSW	4	bc	1	61	50	0.02	
Dungeness ...	30.05	56	E	3	c	30.03	- .02	57	55	+ 2	WSW	3	bc	3	60	47	-	
London ...	30.05	62	S	1	bc	30.03	- .04	60	55	+ 4	W	3	b	*	67	56	-	
Oxford ...	30.07	57	SW	2	0	30.04	- .07	58	55	+ 2	SW	3	b	*	62	47	0.06	
Cambridge ...	30.07	60	L	0	r	29.96	- .12	58	55	+ 2	SW	1	bc	*	68	48	0.03	
Yarmouth ...	30.05	57	SSE	4	bcm	29.96	- .11	59	55	+ 6	W	3	bc	2	59	51	-	
Cuxhaven ...	30.05	52	NW	4	b	30.03	+ .04	56	55	+ 2	WSW	3	b	*	58	51	-	
Berlin ...	29.99	59	WNW	3	c	30.01	+ .04	58	51	- 1	NW	1	0	*	64	48	-	
Wiesbaden ...	*	*	*	*	*	30.04	+ .01	58	53	- 6	W	3	0	*	68	54	0.08	
Munich ...	30.06	56	W	3	bc	30.06	+ .01	59	54	0	W	6	bc	*	66	52	0.12	
FRANCE & NETHERLANDS.																		
The Helder ...	30.06	55	W	1	bc	29.97	- .08	58	54	+ 5	SW	3	c	2	57	48	-	
Brussels ...	*	*	*	*	*	30.07	00	56	51	+ 3	WSW	1	b	*	66	45	-	
Cape Gris Nez...	30.05	57	NE	3	b	30.06	+ .02	57	53	+ 3	SW	3	b	1	61	50	-	
Paris ...	30.04	62	NW	3	0	30.12	+ .08	61	52	+ 5	NNE	1	bc	*	67	51	0.10	
Brest ...	30.17	60	NW	5	b	?	?	57	55	0	WNW	3	0	2	70	52	-	
Lorient ...	30.12	63	N	3	b	30.18	+ .09	56	55	- 1	NNW	4	b	2	64	54	-	
Rochefort ...	30.17	65	WNW	5	b	30.23	+ .11	59	56	- 4	NNE	5	b	2	70	52	-	
Belfort ...	30.04	69	W	1	0	30.08	60	56	56	0	W	1	0	*	69	49	0.32	
Lyons ...	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
Nice ...	29.88	72	SW	3	b	29.93	+ .07	66	63	- 5	NE	1	bc	1	79	57	-	
Perpignan ...	30.06	73	NW	4	c	30.15	+ .07	65	59	- 3	NW	4	0	*	79	63	-	
Biarritz ...	30.16	68	NNW	3	b	30.20	+ .05	64	59	+ 4	E	3	bc	2	70	?	-	
PENINSULA.																		
Corunna ...	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
Lisbon ...	30.13	63	NW	8	b	30.10	- .05	63	58	+ 1	N	8	b	3	70	61	-	

For Explanation of Columns, see p. 1.

† Received too late for insertion in Charts on p. 2.

Monday, 9th July

(Explanation of Map)

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

\rightarrow = forces above W_i \rightarrow = forces 8 to W_i
 \rightarrow = forces 5 to 7_i \rightarrow = forces 1 to 4_i
 \odot = dead calm.

Sea Disturbance—where considerable is shewn thus.

MEAN HEIGHT of the BAROMETER.

at 8 a. m. for the month of July
During the 19 Years 1871—1888.

1888.

July 9th

29.7 29.6 29.5

29.7 HIGH

generally falling

29.6

L O W

29.7 29.8 29.9 30.0 30.1 30.2

Barometer

rising

LOW

30.06 30.04 30.07 30.08 30.12 30.18 30.20

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

AND RAINFALL.

For the month of July

NOTE - The Temperature means are for the 15 years 1871-85, the Rainfall means are mainly those for the 20 years 1866-85

GENERAL SITUATION AT 8 A.M.

PRESSURE	Highest 30.2 ins. and upwards in an anticyclone lying over the Bay of Biscay and the west of France. Lowest 29.5 ins. and less over Ireland, 29.6 ins. and less in a depression lying off the north of Scotland. Gradients moderate over our islands and the North Sea, but slight elsewhere.
TEMPERATURE	Barometer falling in all parts of the United Kingdom, and also on the eastern shores of the North Sea, but rising elsewhere. Highest 66° at Nice, 65° at Perpignan, 64° at Biarritz, 63° at Lisbon, 61° at Paris, and 60° in London and at Belfort. Lowest 46° at Bodø, 49° at Christiansund, 50° at Lumburgh Head, 52° at Stornoway and Mullin Head. The highest maxima registered yesterday were 68° at Cambridge, 67° in London, and 65° at York.
WIND	Chiefly W ^{ly} or SW ^{ly} and moderate or fresh in force, but light from the N ^{wd} over the greater part of Scandinavia, and moderate from the NE ^{wd} in the south of France.
WEATHER	Fine in Denmark, the Netherlands, France and the southeast of England. Cloudy or overcast elsewhere with showers at several of our western and northern stations. Showers fell yesterday in many parts of the United Kingdom, and thunder was heard at Mullaghmore & Bawle Pt.
SEA	Rather rough at Stornoway but slight or smooth elsewhere.

PROBABLE CHANGES IN SYSTEM NOW PREVALENT

The general appearance, although more satisfactory than of late, is scarcely settled.
The depression in the north will probably be followed shortly by other disturbances, and a continuance of showery weather is likely over the greater part of the Kingdom.

FORECASTS

For the 24 hours ending at NOON on 10th JULY 1888.

DISTRICTS.	FORECASTS.	DISTRICTS.	FORECASTS.
0 { SCOTLAND NORTH	Varying W ^{ly} breezes, light or moderate; changeable, some showers.	6 { SCOTLAND WEST	Same as N ^o 0 and 1.
1 { SCOTLAND EAST		7 { ENGLAND N. W.	Same as N ^o 2.
2 { ENGLAND N. E.	SW ^{ly} to W ^{ly} winds, moderate; cloudy, some showers.	8 { ENGLAND S. W.	W ^{ly} winds, moderate or fresh; changeable, some showers.
3 { ENGLAND EAST	SW ^{ly} and W ^{ly} winds, moderate; fair generally, but local showers.	9 { IRELAND NORTH	
4 { MIDLAND COUNTIES		10 { IRELAND SOUTH	
5 { ENGLAND SOUTH			
		WARNINGS	NONE ISSUED.

Note.—The South Cone, point downwards (∇) means that gales, or strong winds, are probable, at first from the Southward (from S.E. round by S. to N.W.) Should it appear likely that a gale beginning from between W. and N.W. is likely to veer towards N. or N.E., the North Cone is hoisted in preference to the South Cone.
The North Cone, point upwards (∧) means that gales, or strong winds, are probable, at first from the Northward (from N.W. round by N. to S.E.) Should it appear likely that a gale beginning from between N. and S.E. is likely to veer towards S. or S.W., the South Cone is hoisted in preference to the North Cone.

YESTERDAY'S 2 P.M. REPORTS.

	Bar.	Dry.	Wet.	Wind.	Wca.	Sea.		Bar.	Dry.	Wet.	Wind.	Wca.	Sea.
Skudesnæs ...	29.87	55	50	NW 7	C	5	Holyhead ...	30.07	61	54	WSW 1	6	1
Sumburgh Head ...							Valencia ...						
Stornoway ...	29.82	58	57	SW 3	0	3	Scilly ...						
Aberdeen ...							Jersey ...	30.09	59	55	NW 2	C	2
Shields ...							Dungeness ...	30.06	58	52	E 3	C	3
Ardrossan ...							London ...						*
Malin Head ...	29.96	55	53	WSW 4	0	4	Yarmouth ...						
Mullaghmore ...							Rocheport ...	30.15	68	61	W 5	6	2
Belmullet ...	30.04	54	53	WSW 5	7	*							

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

The reports for yesterday morning showed a considerable improvement in the weather over the British Islands, when compared with that of the preceding week. The barometer had risen somewhat decidedly over Spain, France, Germany and England, but fallen over northern Europe, and had begun to fall on the northern and western coasts of the British Islands. The local disturbance noticed over Brittany and the south of England on Saturday had disappeared, but a large low pressure system was advancing in a southeasterly direction over Finland and the east of Lapland. The wind, therefore, was very variable—mainly N by E to W by S over Scandinavia, Germany, Ireland and our southwest coasts—but from all sorts of directions in other places. The weather was still cloudy, showery and thundery at several of the Continental stations, but fair over the British Islands, as a whole, though dull in the west and northwest. Temperature showed some tendency to rise in our Islands and over the Mediterranean, where, however, it was still much lower than over Russia. The highest individual readings reported were 88° at Lugliari, 86° at Biskra (Algeria) 82° at Brindisi and Rome, 80° at Naples and Palermo, 78° at Passaro, and 71° at Nice; it was as high at 66° even at Archangel, and 61° at Hernösand. The lowest values recorded were 10° at Rodo, 18° at Uleaborg, 50° at Haparanda, 51° at Skudesnæs, 53° at Malin Head and Brussels, 54° at York, and 56° in London and at Paris.

Later in the day the thermometer rose to 65° at York, 67° in Paris and London, and 70° at Rocheport, Biarritz and Lisbon, but in Ireland and Scotland the weather again became showery.

SUMMARY OF CHANGES IN THE WEATHER OVER THE BRITISH ISLANDS AND THEIR NEIGHBOURHOOD FROM THE 1ST TO THE 7TH JULY

After a brief interval of fine, bright (but cold) weather, which occurred over Ireland on Saturday, June 30th—over England on Sunday, July 1st—and over the eastern shores of the North Sea on the following day, the weather over our Islands again broke up completely and remained in a most unsettled condition till the close of the week. NE by E and E by S winds were experienced over the northern, and S W by S and W by S winds over the southern parts of our area; temperature was low everywhere; thunderstorms occurred from day to day in various localities accompanied by heavy local showers, and the rainfall as a whole was abundant. Heavy hail fell in the south. At the close of the week, however, some improvement so far as rainfall is concerned was observed in Ireland and Scotland, and, even at the English stations, there was less rain on Saturday than for many days past, but the air became very cold, and in the north some frost occurred.

The above conditions were brought about by the prevalence simultaneously of two high pressure systems—one lying to the northward and the other to the southward of our Islands, and the appearance in the zone of low pressure separating the two, of several low pressure systems—mostly small and shallow, but one of them rather large. The centre of this larger system reached Ireland on the 2nd and the North Sea on the 3rd and was followed closely by a less important system on the 4th. The barometer then began to rise in the north and the change soon became general. The disturbances became less important, and appeared likely to fill up.

EXPLANATION OF COLUMNS GIVEN ON PAGE 1.

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

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

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

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

DAILY WEATHER REPORT.

for TUESDAY 10th JULY

1888.

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

STATIONS.		+ YESTERDAY EVENING.					8 A.M. TO DAY.										PAST 24 HOURS.		
		Barometer at 32° F. and Sea Level.	Temp. in Shade.	WIND.		Weather.	BAROMETER.		SHADE TEMP.		WIND.		Weather.	Sea (0 to 9.)	SHADE TEMP.		Amount of Rainfall.		
				Dir.	Force (0 to 12.)		Reading at 32° F. and Sea Level.	Difference from 8 a.m. yesterday.	Dry.	Wet.	Difference from 8 a.m. yesterday.	Dir.			Force (0 to 12.)	Max.		Min.	
SCANDINAVIA.	Haparanda ..	29.44	53	N	2	c	29.72	+ .26	53	50	+ 5	N	4	0	*	59	43	—	
	Hernösand ...	29.55	55	L	0	0	29.54	— .08	57	51	+ 2	N	2	0	*	64	50	—	
	Stockholm ...	29.62	56	L	0	c	29.60	+ .04	58	53	+ 2	W	2	0	*	59	52	—	
	Wisby ...	29.66	54	SW	4	c	29.66	+ .07	54	52	— 1	W	2	0	*	57	52	0.88	
	Bodö ...	29.66	47	W	2	0	29.60	— .09	48	45	+ 2	W	2	0	1	48	45	—	
	Christiansund...	29.67	47	NNE	5	c	29.60	— .15	51	48	+ 2	NE	7	0	3	55	46	—	
	Skudesnaes ...	29.66	54	SSE	3	0	29.47	— .18	57	54	+ 2	NNW	4	0	3	57	54	—	
	Christiania Fjord (Fardcr)	29.62	59	SW	5	bc	29.54	— .14	58	57	+ 1	ESE	4	0	3	61	55	—	
	Skagen (The Seaw)	29.63	54	W	2	0	29.46	— .25	54	53	— 1	W	2	0	2	63	52	0.04	
	Fanö ...	29.64	55	SW	5	r	29.46	— .41	53	52	— 4	W	4	c	*	59	53	0.39	
BRITISH ISLANDS.	Sumburgh Head	29.56	51	NE	1	r	29.70	+ .14	46	43	— 4	N	2	0	3	52	41	0.49	
	Stornoway ..	29.88	49	N	7	0	29.79	+ .17	48	47	— 4	W	2	0	3	53	44	0.17	
	Wick ...	29.64	49	N	7	r	29.74	+ .20	47	47	— 8	NNW	1	r	2	55	41	0.45	
	Nairn ...	29.77	52	NNW	4	c	29.81	+ .21	53	50	— 3	WSW	3	bc	2	60	46	0.01	
	Aberdeen...	29.64	52	NNW	7	cpq	29.81	+ .20	50	45	— 8	NNW	4	c	2	65	44	0.07	
	Leith ...	29.76	57	W	4	c	29.90	+ .21	50	45	— 7	W	2	cm	*	66	47	—	
	Shields ...	29.66	62	W	3	c	29.86	+ .13	54	46	— 6	NNW	3	c	3	65	45	0.02	
	Spurn Head ...	29.72	60	W	6	bc	29.87	— .02	55	48	— 3	NNW	5	bc	3	64	50	0.06	
	York ...	29.75	61	W	5	bc	29.90	+ .02	54	46	— 3	N	3	b	*	63	46	0.01	
	Loughborough	29.84	58	W	4	0	29.93	— .02	54	50	— 2	NNW	3	c	*	65	49	—	
GERMANY.	Ardrossan ...	29.50	54	W	6	bc	29.94	+ .21	51	47	— 4	NNW	3	0	2	58	47	—	
	Malin Head ...	29.96	52	NNW	4	0	30.00	+ .20	52	49	— 0	NNW	4	c	4	54	49	—	
	Mullaghmore ...	30.04	54	NNW	5	om	30.10	+ .21	54	49	— 2	NNW	4	0	3	59	49	—	
	Belmullet ...	30.10	55	N	3	0	30.13	+ .19	53	50	— 2	W	4	0	*	57	50	—	
	Donaghadee ...	29.94	52	N	6	0	30.03	+ .22	51	48	— 7	W	4	0	3	60	48	0.01	
	Barrow-in-Furness	29.83	55	NNW	6	bc	29.98	+ .08	49	46	— 6	NW	6	bc	*	57	48	0.12	
	Liverpool (Bidston)	29.88	56	NNW	6	bc	29.97	+ .07	53	48	— 3	NNW	5	bc	5	59	50	0.07	
	Holyhead ...	29.92	55	N	3	bc	30.02	+ .11	53	48	— 2	NNW	5	bc	5	61	50	—	
	Parsonstown ...	30.03	60	NNW	2	b	30.13	+ .18	53	48	— 5	L	0	c	*	63	42	—	
	Valencia ...	30.12	59	NNW	2	op	30.21	+ .14	55	50	— 3	NNW	2	c	2	59	52	0.08	
FRANCE & NETHERLANDS.	Roche's Point...	30.02	62	NNW	5	bc	30.12	+ .10	54	49	— 6	N	5	b	4	63	49	—	
	Pembroke ...	29.96	57	NNW	3	c	30.09	+ .09	52	49	— 4	NNW	4	bc	3	57	49	—	
	Scilly ...	30.04	58	NNW	5	0	30.10	+ .01	56	50	— 1	NNW	5	c	4	60	54	—	
	Prawle Point ...	30.00	57	W	4	c	30.07	— .03	58	54	+ 3	NNW	3	c	2	59	48	0.03	
	Jersey ...	30.06	59	W	5	0	30.06	— .09	60	55	+ 1	NNW	3	bc	3	61	56	—	
	Hurst Castle ...	29.95	59	WSW	6	c	30.01	— .06	55	51	— 3	NNW	3	bc	2	63	50	—	
	Dungeness ...	29.92	59	WSW	6	c	29.90	— .18	54	49	— 3	NNW	4	c	3	62	50	—	
	London ...	29.89	59	W	2	p	29.95	— .08	53	49	— 7	NW	3	0	*	67	49	0.03	
	Oxford ...	29.88	58	W	3	0	29.97	— .04	53	48	— 5	NNW	3	c	*	64	48	0.03	
	Cambridge ...	29.84	60	SW	3	0	29.91	— .05	56	51	— 2	N	1	bc	*	67	47	0.03	
PENIN- SULA.	Yarmouth ...	29.79	63	WSW	4	c	29.86	— .10	53	50	— 6	NNW	4	c	3	66	49	0.03	
	Cuxhaven ...	29.91	55	SSW	3	bc	29.61	— .42	56	55	+ 5	W	6	r	*	62	55	0.78	
	Berlin ...	29.93	62	L	0	b	29.72	— .29	60	55	+ 5	SW	2	c	*	68	52	—	
	Wiesbaden ...	*	*	*	*	*	29.88	— .16	59	56	+ 1	SW	2	0	*	70	50	0.04	
	Munich ...	30.10	57	SW	2	c	30.02	— .04	60	54	+ 1	W	5	bc	*	63	50	0.08	
	The Helder ...	29.76	59	SW	5	r	29.75	— .22	54	51	— 4	NNW	7	0	4	64	54	0.39	
	Brussels ...	*	*	*	*	*	29.89	— .18	55	53	— 1	WSW	3	0	*	69	54	0.12	
	Cape Gris Nez...	29.96	59	WSW	5	c	29.92	— .14	53	50	— 4	NNW	5	0	4	61	52	—	
	Paris ...	30.04	66	SW	3	bc	29.99	— .13	59	56	— 2	WSW	3	0	*	71	54	—	
	Brest ...	30.17	59	W	4	0	30.13	?	57	54	— 0	NNW	1	0	2	70	52	0.04	

WEATHER

for 8 a.m. on

CHARTS

Tuesday, 10th July

1883.

BAROMETER, WIND & SEA.

(Explanation of Map)

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

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

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

Sea Disturbance — where considerable, is shown thus.

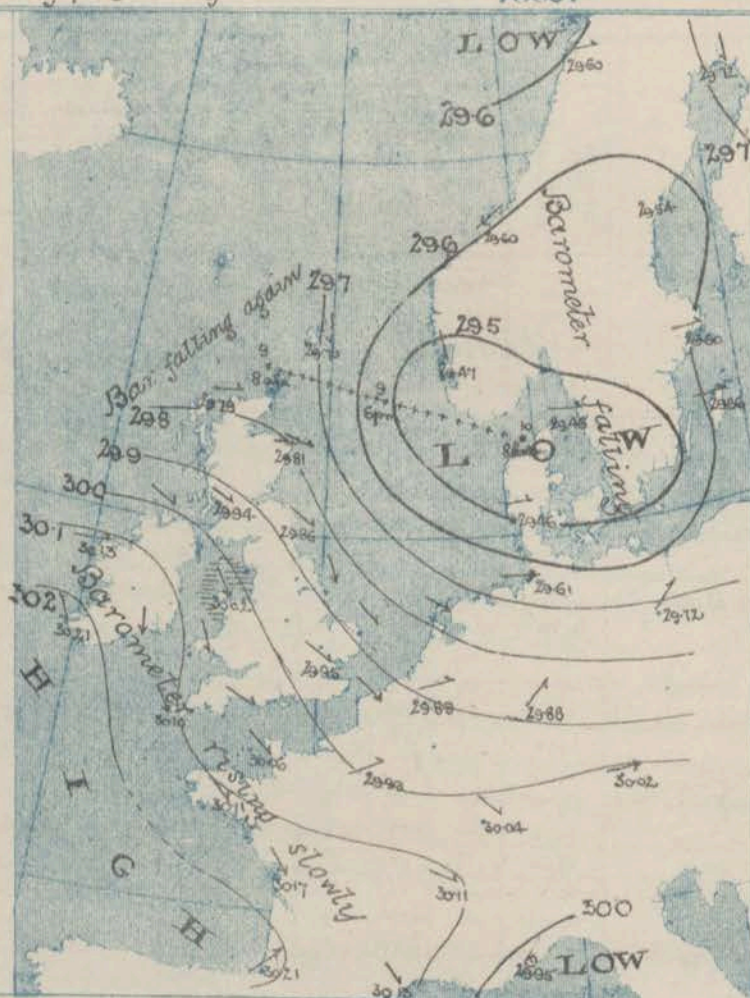
■ = Rough ■ = High

MEAN HEIGHT of the BAROMETER

at 8 a.m. for the month of July

During the 15 Years 1871—1885.

STATIONS.	MEAN READINGS.
	in.
Sumburgh Head	29.794
Stornoway	29.797
Wick	29.810
Nairn	29.821
Aberdeen	29.831
Leith	29.850
Shields	29.876
York	29.910
Loughborough	29.936
Ardrossan	29.862
Donaghadee	29.881
Holyhead	29.918
Liverpool	29.913
Parsonstown	29.921
Valencia	29.939
Roche's Point	29.938
Pembroke	29.942
Scilly	29.984
Jersey	30.009
Hurst Castle	29.974
Dover	29.970
LONDON	29.967
Oxford	29.953
Cambridge	29.947
Yarmouth	29.943



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

Temperature — Isotherms are drawn for each 10° changes since previous morning are stated in words.

Weather is shown by Letters of the Beaufort Scale.

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

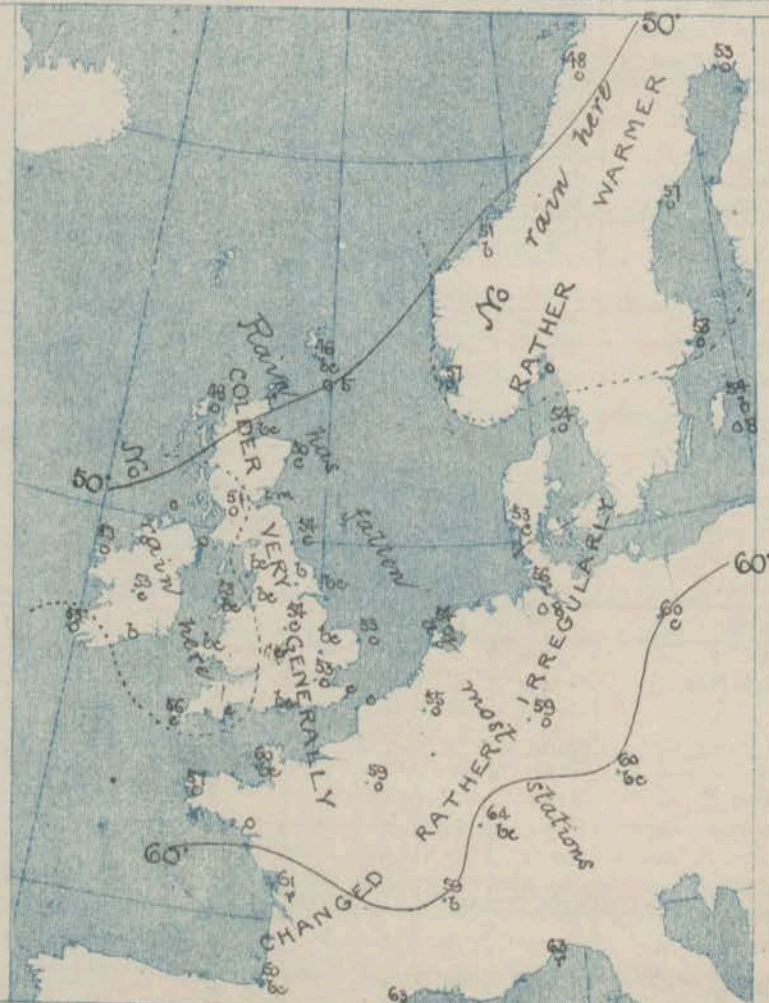
MEANS OF TEMPERATURE IN SHADE.

AND RAINFALL.

for the month of July.

STATIONS	TEMPERATURE.				RAINFALL. (Inches)
	Daily Max.	Daily Min.	Dry at 8 a.m.	Wet	
Sumburgh Head	57.8	48.3	53.6	52.0	2.09
Stornoway	60.2	49.5	56.0	54.0	3.02
Wick	62.2	49.2	56.1	53.8	2.25
Nairn	64.7	51.4	57.2	53.8	2.57
Aberdeen	64.4	51.1	58.0	54.4	2.74
Leith	67.1	51.7	58.8	55.3	2.84
Shields	64.4	52.9	58.6	55.4	2.63
York	68.5	52.1	59.4	56.2	2.57
Loughborough	72.1	53.0	62.0	58.2	2.34
Ardrossan	63.9	53.2	57.5	54.8	2.91
Donaghadee	63.1	51.6	57.4	55.6	2.67
Holyhead	63.9	54.7	58.2	55.9	2.32
Liverpool	66.1	54.4	59.6	55.9	2.99
Parsonstown	66.4	51.9	58.3	54.8	3.01
Valencia	64.1	53.6	58.7	56.3	3.91
Roche's Point	66.7	53.3	58.7	55.8	3.16
Pembroke	62.9	55.0	58.1	55.9	2.81
Scilly	64.5	56.3	60.1	58.0	2.29
Jersey	68.8	56.3	62.2	59.2	2.21
Hurst Castle	67.9	55.7	61.3	58.8	2.15
Dover	67.2	56.9	62.6	58.8	1.82
LONDON	73.0	54.1	62.3	58.1	2.17
Oxford	69.9	53.7	60.2	56.8	2.51
Cambridge	72.3	52.4	61.4	57.9	2.30
Yarmouth	66.8	55.2	61.2	58.1	2.68

NOTE — The Temperature means are for the 15 years 1871—85, the Rainfall means are mainly those for the 10 years 1866—85.



GENERAL SITUATION AT 8 A.M.

PRESSURE

Highest, 30.2 ins. and upwards, over the Bay of Biscay, and the southwest of Ireland.
Lowest, 29.5 ins. and less, in a large depression lying over the extreme South of Scandinavia and the greater part of Denmark.
Gradients moderate generally, but rather steep off the east coasts of Great Britain.
Barometer rising over the greater part of our islands, but falling briskly at Stormoway.

TEMPERATURE

Highest, 69° at Lisbon, 64° at Belfort, 63° at Perpignan and Thion, 61° at Rochefort and 60° at Jersey, Berlin, Munich and Biarritz.
Lowest, 46° at Lumburgh Head, 47° at Wick, 48° at Bodø and Stormoway, 49° at Barron-in-Furrows and 50° at Aberdeen and Leith.

WIND

Light W^{ly} in Scotland, moderate or fresh NW^{ly} over Ireland, England and the greater part of France.
W^{ly} or SW^{ly} in Germany, Denmark and the Netherlands, E^{ly} or NE^{ly} in the South of Scandinavia.
A moderate to fresh gale from NW or N. was experienced last evening in the north of Scotland.

WEATHER

Fair in most parts of our islands, but dull in the extreme west and north, with rain at Wick.
Fine in the south of France; cloudy elsewhere, with rain at Aushaven and Rochefort.
Rain fell yesterday in many districts, — somewhat heavily in the extreme north.

SEA

Rather rough in the Irish Sea, but moderate to smooth elsewhere.

PROBABLE CHANGES IN SYSTEM NOW PREVALENT

The new depression which is approaching the north of Scotland will probably occasion a considerable increase of wind on our north and northwest coasts, with showery weather in nearly all parts of the Kingdom.

FORECASTS

for the 24 hours ending at NOON on 11th JULY 1888.

DISTRICTS.	FORECASTS.	DISTRICTS.	FORECASTS.
0 SCOTLAND NORTH	SW ^{ly} to NW ^{ly} winds, increasing in force; unsettled, some rain.	6 SCOTLAND WEST	W ^{ly} to NW ^{ly} winds, increasing in force; squally, some rain.
1 SCOTLAND EAST		7 ENGLAND N. W.	W ^{ly} to NW ^{ly} winds, strong; fair to squally and some fair.
2 ENGLAND N. E.	NW ^{ly} to W ^{ly} winds, moderate or fresh; fair to unsettled and showery.	8 ENGLAND S. W.	NW ^{ly} winds, moderate or fresh; fair generally.
3 ENGLAND EAST		9 IRELAND NORTH	Same as N ^o 6.
4 MIDLAND COUNTIES		10 IRELAND SOUTH	Same as N ^o 8.
5 ENGLAND SOUTH		WARNINGS	The NORTH CONE was hoisted yesterday in district 0 and part of 1.

Note.—The South Cone, point downwards (↓) means that gales, or strong winds, are probable, at first from the Southward (from S.E. round by S. to N.W.) Should it appear likely that a gale beginning from between W. and N.W. is likely to veer towards N. or N.E., the North Cone is hoisted in preference to the South Cone.
The North Cone, point upwards (↑) means that gales, or strong winds, are probable, at first from the Northward (from N.W. round by N. to S.E.) Should it appear likely that a gale beginning from between E. and S.E. is likely to veer towards S. or S.W., the South Cone is hoisted in preference to the North Cone.

YESTERDAY'S 2 P.M. REPORTS.

	Bar.	Dry.	Wet.	Wind.	Wea.	Sea.		Bar.	Dry.	Wet.	Wind.	Wea.	Sea.
Skudesnaes ...	29.65	57	53	SE	4	2	Holyhead ...	29.98	59	57	W	4	4
Sumburgh Head ...	29.57	57	50	E	1	3	Valencia ...	29.98	59	58	NW	2	2
Stornoway ...	29.79	59	50	NW	7	6	Scilly ...	29.07	60	58	W	4	4
Aberdeen ...	29.59	61	54	WNW	5	2	Jersey ...	29.11	61	59	WSW	4	4
Shields ...	29.60	60	57	WSW	3	2	Dungeness ...	29.99	60	56	WSW	5	4
Ardrossan ...	29.78	56	53	W	6	4	London ...	29.94	66	61	SW	3	3
Malin Head ...	29.59	54	50	NNW	5	4	Yarmouth ...	29.87	66	58	WSW	5	3
Mullaghmore ...	29.98	59	54	NW	5	4	Rochefort ...	29.54	66	59	NW	5	2
Belmullet ...	30.14	57	54	NNW	3	2							

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

The reports for yesterday morning showed that pressure varied from 30.2 ins. and more over the Bay of Biscay, and from between 30.0 ins. and 30.2 ins. over France and Germany to about 29.5 ins. in a small depression which lay off the northeast of Scotland, and to the same value in a larger system lying over Finland. These two depressions were separated by a secondary anticyclone of slight intensity, which lay over the west of Norway. The wind was consequently very variable in the north, W and SW over England, the north of France and north Germany, but N in the south of France, and variable over Russia. The weather was much finer than it had been for some time past, but the general appearance was not settled. Temperature was falling a little in most places, but remained high over the Mediterranean. The highest values reported were 93° at Biskra (Algeria) 84° at Malta, 86° at Brindisi, 81° at Lesina, 78° at Palermo, 76° at Rome, and 75° at Barcelona; the lowest were 46° at Bodo, 48° at Ulenberg and Haparanda, 49° at Christiansund, 50° at Sumburgh Head, and 52° at Malin Head.

Later in the day the wind increased to a gale from the N^W in the north of Scotland, and rain fell from time to time in many places.

General remarks on the Weather for the 24 hours ending at 8 a.m. 8th July 1883.

The reports for Saturday showed that pressure was low generally; but it exceeded 29.9 ins. over the whole of western and southern Europe, and was rather in excess of 30.0 ins. in the west of Ireland and in Austria. A small depression, of irregular form, in which readings were below 29.8 ins. lay over Brittany and the English Channel, and another larger system, with minimum readings of about 29.5 ins., over Finland and the White Sea. Thus while N^W winds prevailed over the British Islands (as a whole) the North Sea and Scandinavia and very variable winds & France, W^W and SW^W breezes were reported in Germany and SW^W in Russia. The weather was in a very showery, unsettled condition, and severe local thunderstorms had occurred both in the south of our Islands and over the Continent. Temperature was very low over the British Islands and France and somewhat low (for the time of year) over the northern shores of the Mediterranean also, but not over the Baltic. The highest individual (morning) values reported were 96° at Biskra (Algeria) 86° at Cagliari, 81° at Brindisi, 78° at Palermo, 77° at Malta, Rome and Trieste, 76° at Lesina, and 73° at Livourne; at Nice and Perpignan however, the values were but little above 60°. The lowest values were 48° at Christiansund and Sumburgh Head, 49° at Skudesnaes, 50° at York and Loughborough, 51° at Holyhead, 52° at Oxford, and 53° in London.

Later in the day the weather showed some tendency to improve over the British Islands, but temperature remained very low.

EXPLANATION OF COLUMNS GIVEN ON PAGE 1.

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

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

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

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

DAILY WEATHER REPORT.

for Wednesday 11th JULY

1888.

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

+ YESTERDAY EVENING.																		8 A.M. TO DAY.										PAST 24 HOURS.		
STATIONS.	Barometer at 32° F. and Sea Level.	Temp. in Shade.	WIND.		Weather.	BAROMETER.		SHADE TEMP.			WIND.		Weather.	Sea (0 to 9.)	SHADE TEMP.															
			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.													
SCANDINAVIA.																														
Haparanda ..	29.48	49	SW	2	C	29.57	- .15	57	54	+ .4	2	0	0	*	?	46	0.04													
Hernösand ...	29.53	50	SW	2	0	29.55	+ .01	54	50	- .3	2	0	0	*	63	52	0.16													
Stockholm ...	29.52	57	S	2	C	29.53	- .07	61	57	+ .3	2	0	0	*	70	52	—													
Wisby ...	29.56	55	S	2	b.	29.54	- .12	61	56	+ .7	5	2	c	*	70	52	—													
Bodö ...	29.54	47	W	2	0	29.47	- .13	45	44	- .3	W	2	0	1	48	45	0.08													
Christiansund...	29.62	51	NNE	6	b.	29.65	+ .03	45	47	- .3	NNW	1	f	1	59	46	0.04													
Skudesnaes ...	29.47	53	NNW	4	0	29.51	+ .04	60	57	+ .3	NNW	2	b	2	51	53	—													
Christiania Fjord (Færd)	29.46	59	Z	0	b	29.50	- .04	59	55	+ .1	ESE	2	b	3	59	57	—													
Skagen (The Scaw)	29.44	54	Z	0	b	29.47	+ .01	57	55	+ .3	SE	1	b.	1	64	52	—													
Fanö ...	29.53	51	W	6	C	29.56	+ .10	54	49	+ .1	W	4	C	*	59	50	0.04													
SCOTLAND.																														
Sumburgh Head	29.67	49	NNW	3	0	29.78	+ .08	49	47	+ .3	N	4	0	5	52	44	0.06													
Stornoway ...	29.85	48	N	6	0	30.01	+ .22	48	47	0	N	6	0	6	50	39	0.20													
Wick ...	29.78	46	NNW	3	0	29.88	+ .14	48	47	+ .1	NE	6	0	4	48	40	0.38													
Nairn ...	29.76	47	N	5	r	29.92	+ .11	48	47	- .5	NNW	5	0	5	63	44	0.41													
Aberdeen...	29.71	46	NNW	5	0	29.81	00	49	46	- .1	NNW	5	0	4	57	44	0.25													
Leith ...	29.71	51	W	3	C	29.84	- .06	50	47	+ .3	NE	5	0	*	46	43	0.43													
Shields ...	29.67	47	N	1	C	29.73	- .13	48	47	- .6	N	5	r	5	50	42	0.44													
Spurn Head ...	29.76	53	W	4	r	29.64	- .23	51	49	- .4	NNE	6	b.	4	56	44	0.05													
York ...	29.77	49	W	3	0	29.70	- .20	48	47	- .6	NNW	4	r	*	65	41	0.41													
Loughborough	29.83	53	WSW	3	0	29.71	- .22	46	45	- .8	NNW	4	0	*	61	39	0.42													
BRITISH ISLANDS.																														
Ardrossan ...	29.73	52	NNW	4	C	29.88	- .06	55	49	+ .4	NW	5	b.	3	58	43	0.11													
Malin Head ...	29.80	48	NNW	5	0	30.08	+ .08	50	46	- .2	N	6	0	5	52	42	0.09													
Mullaghmore ...	29.93	55	NNW	7	b.	30.11	+ .01	53	49	- .1	NNW	6	0	5	56	47	0.17													
Belmullet ...	30.03	55	NNW	8	C	30.19	+ .06	52	47	- .1	NNW	3	0	*	57	47	0.02													
Donaghadee ...	29.84	50	NE	5	b.	29.94	- .09	52	49	+ .1	NNE	7	c.	5	56	44	0.29													
Barrow-in-Furness	29.75	51	W	5	0	29.80	- .13	49	47	0	NW	6	0	*	57	44	0.12													
Liverpool (Bidston)	29.78	50	WSW	6	r	29.82	- .15	50	46	- .3	NNW	6	0	5	56	45	0.18													
Holyhead ...	29.83	52	W	5	r	29.87	- .13	51	48	- .2	NNW	7	c	6	60	43	0.35													
Parsonstown ...	29.96	59	WSW	2	C	30.09	- .04	51	47	- .2	NNW	4	c	*	63	39	—													
Valencia ...	30.10	56	NNW	3	0	30.24	00	56	50	+ .1	N	3	b.	4	61	48	0.02													
Roche's Point...	30.00	58	NNW	5	C	30.10	- .02	54	49	0	NNW	6	b.	4	60	45	—													
Pembroke ...	29.95	55	W	4	C	29.95	- .14	50	49	- .2	NNW	7	c.	5	57	45	0.02													
Scilly ...	30.06	57	NNW	5	C	30.05	- .05	53	48	- .3	NNW	6	c	5	58	49	—													
Prawle Point ...	29.98	57	NNW	4	b.	29.93	- .14	54	48	- .4	NNW	6	b	4	66	42	0.01													
Jersey ...	30.02	59	NNW	3	b.	29.93	- .13	52	47	- .4	NNW	5	b.	4	62	50	—													
Hurst Castle ...	29.91	60	NNW	5	C	29.80	- .21	51	48	- .4	NNW	7	c.	4	64	43	0.04													
Dungeness ...	29.86	56	WSW	6	C	29.63	- .27	47	45	- .7	NNW	6	c.	5	61	41	0.17													
London ...	29.85	60	NNW	3	0	29.68	- .27	44	42	- .9	NNW	5	0	*	62	44	0.40													
Oxford ...	29.85	59	NNW	2	r	29.75	- .22	44	42	- .9	NNW	4	r	*	63	41	0.22													
Cambridge ...	29.82	54	SW	1	0	29.65	- .26	45	44	- .11	NNW	2	0	*	65	43	0.12													
Yarmouth ...	29.80	53	ESE	2	C	29.65	- .31	48	47	- .5	N	4	r	4	57	45	0.55													
Cuxhaven ...	29.63	50	W	7	r	29.69	+ .08	52	51	- .4	SSW	2	0	*	59	50	0.08													
Berlin ...	29.71	58	W	1	C	29.74	+ .02	56	50	- .4	W	1	C	*	64	52	0.20													
Wiesbaden ...	*	*	*	*	*	29.73	- .15	58	53	- .1	W	3	0	*	68	52	0.12													
Munich ...	29.93	60	W	4	0	29.86	- .16	60	54	0	SW	5	0	*	68	54	—													
FRANCE & NETHERLANDS.																														
The Helder ...	29.76	52	WSW	1	r	29.67	- .18	53	51	- .1	S	1	0	1	54	48	0.39													
Brussels ...	*	*	*	*	*	29.58	- .31	54	50	- .1	SSW	4	0	*	62	50	0.08													
Cape Gris Nez...	30.00	51	W	5	C	29.59	- .33	44	44	- .9	NNW	9	r	7	59	43	0.08													
Paris ...	29.95	61	NNW	3	b.	29.76	- .23	51	50	- .8	SW	4	0	*	68	48	0.04													
Brest ...	30.12	56	NNW	5	0	30.06	- .07	53	48	- .4	NNW	8	0	5	70	52	—													
Lorient ...	30.05	63	NNW	5	6	29.99	- .12	55	52	- .4	NNW	7	b.	4	66	54	—													
Roche fort ...	30.10	65	NNW	5	0	30.06	- .11	58	55	- .3	NNW	7	*	3	70	54	—													
Belfort ...	29.99	61	W	3	0	29.82	- .22	60	55	- .4	W	4	0	*	67	52	0.20													
Lyons ...	30.00	62	E	1	C	29.93	- .18	64	58	+ .5	W	3	C	*	68	57	0.04													
Nice ...	29.91	67	ESE	3	b	29.89	- .06	63	60	0	E	1	b	1	73	57	—													
Perpignan ...	30.05	78	N	4	b	30.03	- .10	66	59	+ .3	NNW	3	0	*	77	59	—													
Biarritz ...	30.30	66	NNW	4	b	30.08	- .13	61	59	+ .1	W	7	r	3	68	57	0.04													
PENINSULA.																														
Corunna ...	*	*	*	*	*	30.19	- .06	64	60	- .3	NNE	5	0	4	70	57	—													
Lisbon ...	29.99	71	NNW	8	b	30.05	00	64	60	- .5	N	7	b	2	84	61	—													

WEATHER

CHARTS

for 8 a.m. on

Wednesday, 11th July

1888.

BAROMETER, WIND & SEA.

(Explanation of Map)

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

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

→ = forces above 10; →→ = forces 8 to 10;
→→ = forces 5 to 7; → = forces 1 to 4;

○ = dead calm.

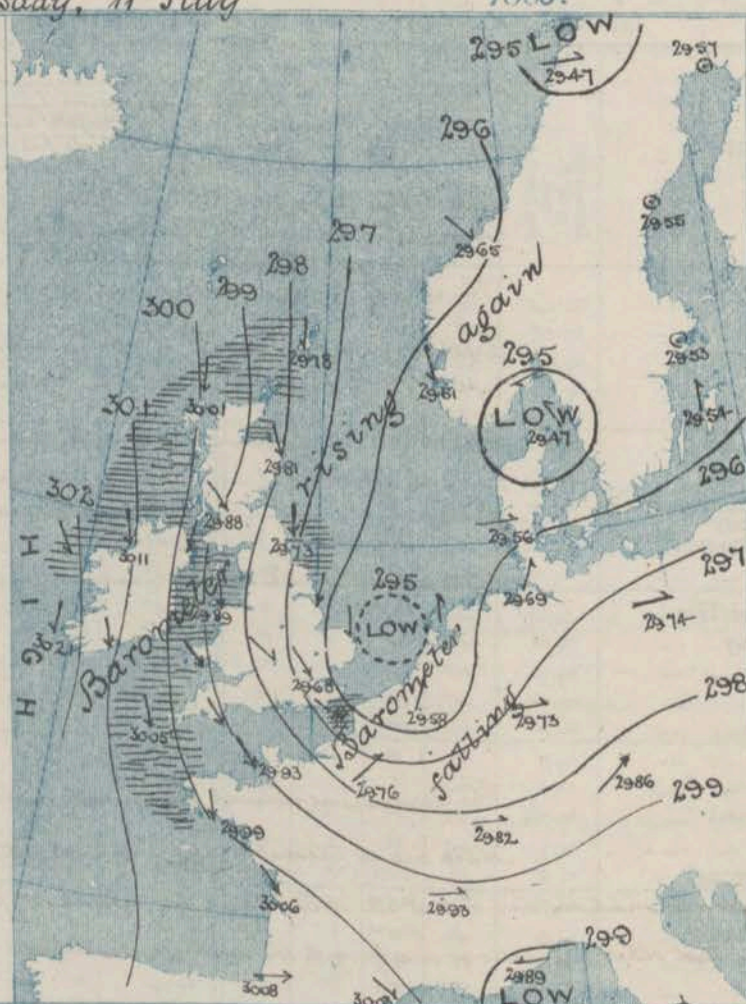
Sea Disturbance — where considerable is shown thus.

■ = Rough. ■ = High.

MEAN HEIGHT of the BAROMETER

at 8 a.m. for the month of July
During the 15 Years 1871—1885.

STATIONS.	MEAN READINGS.
Sumburgh Head	29.794
Stornoway	29.797
Wick	29.810
Nairn	29.821
Aberdeen	29.831
Leith	29.850
Shields	29.876
York	29.910
Loughborough	29.936
Ardrossan	29.862
Donaghadee	29.881
Holyhead	29.918
Liverpool	29.913
Parsonstown	29.921
Valencia	29.939
Roche's Point	29.938
Pembroke	29.942
Scilly	29.984
Jersey	30.009
Hurst Castle	29.974
Dover	29.970
LONDON	29.967
Oxford	29.958
Cambridge	29.947
Yarmouth	29.943



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

Temperature — Isotherms are drawn for each 10° changes since previous morning are stated in words.

Weather is shown by Letters of the Beaufort Scale.

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

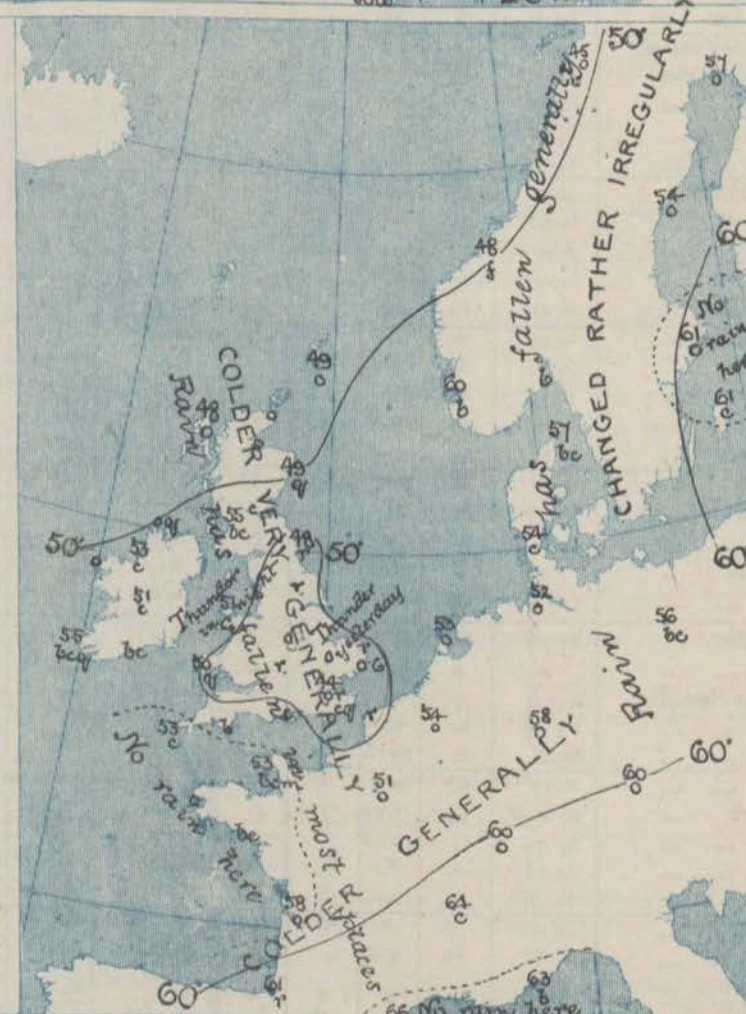
MEANS OF TEMPERATURE IN SHADE.

AND RAINFALL.

for the month of July.

STATIONS	TEMPERATURE.				RAINFALL. (Inches.)
	Daily Max.	Daily Min.	at 8 a.m.		
			Dry	Wet	
Sumburgh Head	57.8	48.3	53.6	52.0	2.09
Stornoway	60.2	49.5	56.0	54.0	3.02
Wick	62.2	49.2	56.1	53.8	2.25
Nairn	64.7	51.4	57.2	53.6	2.57
Aberdeen	64.4	51.1	58.0	54.4	2.74
Leith	67.1	51.7	58.6	55.3	2.84
Shields	64.4	52.9	58.6	55.4	2.63
York	68.5	52.1	59.4	56.2	2.57
Loughborough	72.1	53.0	62.0	58.2	2.34
Ardrossan	63.9	53.2	57.5	54.8	2.91
Donaghadee	63.1	51.6	57.4	55.6	2.67
Holyhead	63.9	54.7	58.2	55.9	2.32
Liverpool	66.1	54.4	59.6	55.9	2.99
Parsonstown	66.4	51.9	58.3	54.8	3.01
Valencia	64.1	53.6	58.7	56.3	3.91
Roche's Point	66.7	53.3	58.7	55.8	3.16
Pembroke	62.9	55.0	58.1	55.9	2.31
Scilly	64.5	56.3	60.1	58.0	2.29
Jersey	68.8	56.3	62.2	59.2	2.21
Hurst Castle	67.9	55.7	61.3	58.8	2.15
Dover	67.2	56.9	62.6	58.8	1.82
LONDON	73.0	54.1	62.3	58.1	2.17
Oxford	69.9	53.7	60.2	56.8	2.51
Cambridge	72.3	52.4	61.4	57.9	2.30
Yarmouth	66.8	55.2	61.2	58.1	2.68

NOTE — The Temperature means are for the 15 years 1871—85. the Rainfall means are mainly those for the 20 years 1866—85



GENERAL SITUATION AT 8 A.M.

PRESSURE	Highest 30.2 ins. and upwards in an anticyclone lying off the west of Ireland. Lowest 29.5 ins. and less in a depression lying over the Hezar Rack, and also (apparently) in a secondary disturbance lying between the coasts of Norfolk and Holland. Gradients rather steep over our Islands but moderate elsewhere. Barometer falling on the south of our Islands and also over the Netherlands and France, but rising elsewhere.
TEMPERATURE	Highest 66° at Perpignan, 65° at Lyons and Lisbon, 63° at Nice, 61° at Stockholm and Wisby and 60° at Munich. Lowest 44° in London and Oxford and Cape Iris Hay, 45° at Bodo and Cambridge, 46° at Loughborough, 47° at Dungeness, and 48° at Christiansund, Shields, York and Harmouth. The reading in London is as much as 18° below the average for July.
WIND	Fresh or strong from the N ^W or N ^W in our Islands and the west of France. Moderate from the S ^W in Germany and the Netherlands, light and variable in Scandinavia.
WEATHER	Fair at several of our western and southwestern stations as well as in Denmark and the south of Norway. Dull elsewhere with rain over the eastern and central parts of England. Since yesterday morning rain has fallen generally and thunder and lightning have been heard at several of the English stations.
SEA	Rather rough on all the more exposed parts of our coasts.

PROBABLE CHANGES IN SYSTEM NOW PREVALENT

The depressions noticed above will probably move slowly eastwards.

There are at present no definite indication of the advance of any fresh disturbance towards our coast, but the general conditions are not at all settled and the continued prevalence of cloud in the extreme north and northwest seems to show that other depressions are lying to the west of Scotland.

FORECASTS

for the 24 hours ending at NOON on 12th July. 1888.

DISTRICTS.	FORECASTS.	DISTRICTS.	FORECASTS.
0 SCOTLAND NORTH	N ^W winds, strong to N ^W moderate, fair to rainy.	0 SCOTLAND WEST	N ^W to W winds fresh, fair to unsettled and some rain.
1 SCOTLAND EAST		7 ENGLAND N. W.	N ^W to N ^W winds strong, equally, some cold showers.
2 ENGLAND N. E.		8 ENGLAND S. W.	N ^W winds fresh or strong, fair generally.
3 ENGLAND EAST	Same as N ^o 5.	9 IRELAND NORTH	Same as N ^o 7.
4 MIDLAND COUNTIES		10 IRELAND SOUTH	Same as N ^o 8.
5 ENGLAND SOUTH	N ^W winds, fresh, some cold showers at first, then becoming temporarily milder and finer.	WARNINGS	The N cone is still flying in district 0. and part of 1.

Note.—The South Cone, point downwards (∇) means that gales, or strong winds, are probable, at first from the Southward (from S.E. round by S. to N.W.) Should it appear likely that a gale beginning from between W. and N.W. is likely to veer towards N. or N.E., the North Cone is hoisted in preference to the South Cone.
The North Cone, point upwards (∧) means that gales, or strong winds, are probable, at first from the Northward (from N.W. round by N. to S.E.) Should it appear likely that a gale beginning from between E. and S.E. is likely to veer towards S. or S.W., the South Cone is hoisted in preference to the North Cone.

YESTERDAY'S 2 P.M. REPORTS.

	Bar.	Dry.	Wet.	Wind.	Wca.	Sea.		Bar.	Dry.	Wet.	Wind.	Wca.	Sea.
Skudesnæs ...	29.49	53	52	NNW 2	r	3	Holyhead ...	29.97	56	50	WSW 4	c	4
Sumburgh Head ...	29.67	48	46	NNW 3	o	3	Valencia ...	30.16	59	54	NNW 3	og	3
Stornoway ...	29.81	45	45	N 6	r	5	Scilly ...	30.10	58	52	NNW 4	bc	4
Aberdeen ...	29.71	47	45	WNW 3	rgp	2	Jersey ...	30.06	61	54	NNW 3	b	3
Shields ...	29.79	54	47	WNW 3	op	3	Dungeness ...	29.92	57	53	W 5	o	3
Ardrossan ...	29.76	54	57	WNW 4	c	3	London ...	29.93	61	55	WNW 3	o	*
Malin Head ...	29.86	50	49	NNW 5	o	5	Yarmouth ...	29.86	57	52	N 4	bc	3
Mullaghmore ...	29.98	53	52	NNW 7	opq	5	Rocheport ...	30.15	66	64	WNW 5	c	2
Belmullet ...	30.05	54	52	WNW 4	o	*							

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

The reports for yesterday morning showed a considerable increase of pressure in the west of the British Islands, and a less marked change over the Bay of Biscay and west of France, while over northern Europe, the Baltic and Russia the barometer had fallen. Readings at 8 am varied from 30.2 ins. and more over the southwest of Ireland, the Bay of Biscay and the north of Spain, to below 29.5 ins. in three distinct depressions, one of which lay over the Skager Rack, another over Lapland and Finland, and a third over central Russia.

Thus the winds over the British Islands and west of France were mainly NW^{ly}, those in Germany SW^{ly} and those over Scandinavia were NE^{ly}, while ^{those} over central and eastern Europe were very variable. The weather varied greatly and was not settled.

Rain was falling in several places, and had fallen during the day at all but the Irish and western English stations.

Temperature was low except over the southeastern parts of the Mediterranean, and showed no tendency to rise.

The highest values at 8 am were, 86° at Malta, 84° at Brindisi, 82° at Constantinople, 81° at Palermo, 79° at Lesina, but on the south coast of France the readings ranged between 60° and 70°; the lowest values were 46° at Sumburgh Head, 48° at Bodø and Stornoway, 50° at Aberdeen and Kuopio, and 51° at Christiansund and Ardrossan.

Later in the day a new depression began to be developed in the north, and moved quickly in a southerly direction over England, increasing in intensity as it did so.

EXPLANATION OF COLUMNS GIVEN ON PAGE 1.

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

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

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

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

DAILY WEATHER REPORT.

for Thursday 12th JULY 1888.
 Issued by the Meteorological Office, 116, Victoria Street, London. R. H. SCOTT, Secretary.

STATIONS.	+ YESTERDAY EVENING.						8 A.M. TO DAY.										PAST 24 HOURS.		
	Barometer at 32° F. and Sea Level.	Temp. in Shade.	WIND.		Weather.	BAROMETER.		SHADE TEMP.			WIND.		Weather.	Sea. (0 to 9.)	SHADE TEMP.		Amount of Rainfall.		
			Dir.	Force. (0 to 12.)		Reading at 32° F. and Sea Level.	Difference from 8 a.m. yesterday.	Dry.	Wet.	Difference from 8 a.m. yesterday.	Dir.	Force. (0 to 12.)			Max.	Min.			
SCANDINAVIA.																			
Haparanda ..	29.55	55	W	2	r	29.45	- .12	60	57	+ 3	N	2	0	*	68	48	0.04		
Hernösand ...	29.59	56	Z	0	o	29.60	+ .05	59	58	+ 5	W	2	0	*	61	48	—		
Stockholm ...	29.55	55	Z	0	bc	29.57	+ .04	57	54	- 4	ESE	2	0	*	68	52	—		
Wibby ...	29.62	55	SSW	4	bc	29.57	+ .03	57	54	- 4	S	2	0	*	70	50	0.04		
Bodö ...	29.56	48	Z	0	o	29.66	+ .19	52	49	+ 7	N	2	0	*	72	45	—		
Christiansund...	29.65	51	NNW	3	f	29.69	+ .04	51	47	+ 3	N	2	0	2	54	46	—		
Skudesnaes ...	29.57	53	NN	7	c	29.61	+ .10	51	49	- 9	NN	4	0	2	61	52	—		
Christiania Fjord (Færdor)	29.55	60	ENE	2	o	29.56	+ .06	57	55	- 2	N	4	0	2	66	57	—		
Skagen (The Seaw)	29.55	53	NN	3	o	29.50	+ .03	58	56	+ 1	NN	2	0	2	64	50	—		
Fanö ...	29.57	52	NN	2	c	29.58	+ .02	54	51	0	W	4	0	*	61	45	—		
BRITISH ISLANDS.																			
Sumburgh Head	29.80	47	N	3	r	29.88	+ .10	47	46	- 2	N	3	0	4	57	44	0.01		
Stornoway ..	30.03	52	N	5	c	30.07	+ .06	51	50	+ 3	N	4	0	3	54	43	—		
Wick ...	29.91	47	NE	5	o	30.00	+ .12	53	50	+ 5	NE	5	0	4	53	40	—		
Nairn ...	29.96	51	NNW	5	c	30.02	+ .10	53	50	+ 5	NNW	3	0	2	53	45	—		
Aberdeen...	29.89	48	NN	5	opq	29.97	+ .16	51	46	+ 2	NN	5	0	4	53	46	0.02		
Leith ...	29.92	54	N	4	c	30.01	+ .17	57	49	+ 4	NN	2	0	*	60	44	—		
Shields ...	29.85	50	N	5	o	29.97	+ .24	49	47	+ 1	N	3	0	5	55	46	0.06		
Spurn Head ...	29.76	52	NNW	7	c	29.93	+ .29	50	49	- 1	NNW	5	0	5	52	47	0.26		
York ...	29.85	53	NN	3	o	29.97	+ .27	50	48	+ 2	NN	1	0	*	54	47	0.01		
Loughborough	29.87	53	WNW	1	o	30.00	+ .29	49	48	+ 3	NNW	1	0	agp	53	46	0.08		
Ardrossan ...	29.94	56	NN	3	o	30.05	+ .17	55	49	0	NN	4	0	3	60	42	—		
Malin Head ...	30.08	50	NNW	4	opq	30.14	+ .06	51	48	+ 1	NNW	3	0	3	57	49	—		
Mullaghmore ...	30.14	52	NNW	5	og	30.20	+ .09	53	43	0	NN	4	0	2	56	50	—		
Belmullet ...	30.20	53	N	5	o	30.23	+ .04	52	48	0	WNW	3	0	*	57	51	—		
Donaghadee ...	30.01	54	NNE	6	c	30.10	+ .10	53	49	+ 1	NNE	4	0	3	56	47	—		
Barrow-in-Furness	29.88	58	NN	5	bc	30.04	+ .21	52	49	+ 3	NN	4	0	*	59	49	—		
Liverpool (Bidston)	29.92	53	NNW	5	c	30.03	+ .21	53	50	+ 3	WNW	4	0	3	57	50	—		
Holyhead ...	29.98	53	NNW	6	cg	30.09	+ .20	51	48	0	NN	5	0	5	54	50	0.01		
Parsonstown ...	30.12	55	NN	3	c	30.20	+ .11	54	50	+ 3	NN	1	0	*	59	49	—		
Valencia ...	30.22	57	NNW	3	bc	30.26	+ .05	56	51	0	NNW	1	0	2	59	51	—		
Roche's Point...	30.12	58	NNW	5	bc	30.20	+ .10	54	49	0	NNW	5	0	4	61	49	—		
Pembroke ...	30.06	53	NN	4	c	30.15	+ .20	52	49	+ 2	NN	3	0	2	57	49	0.02		
Scilly ...	30.11	57	NNW	5	c	30.17	+ .12	55	51	+ 2	NNW	4	0	4	58	51	—		
Prawle Point ...	30.04	54	NN	4	c	30.12	+ .19	56	52	+ 2	NN	2	0	1	62	46	—		
Jersey ...	30.02	57	WNW	5	cg	30.12	+ .19	56	51	+ 3	NN	4	0	3	60	52	—		
Hurst Castle ...	29.95	56	N	4	opq	30.06	+ .26	53	51	+ 2	NN	3	0	2	61	48	—		
Dungeness ...	29.81	49	NN	4	o	29.98	+ .35	52	49	+ 5	NN	4	0	3	55	45	0.05		
London ...	29.88	51	NN	3	o	30.01	+ .33	50	49	+ 6	NN	1	0	od	54	43	0.03		
Oxford ...	29.93	53	NN	3	o	30.02	+ .27	50	49	+ 6	WNW	1	0	od	55	44	0.07		
Cambridge ...	29.89	50	N	3	c	29.97	+ .32	51	49	+ 6	N	1	0	*	58	44	0.13		
Yarmouth ...	29.69	50	NNW	5	opq	29.84	+ .34	50	49	+ 2	NN	4	0	odg	56	47	0.49		
Cuxhaven ...	29.63	53	N	2	r	29.82	+ .07	55	54	+ 3	N	4	0	*	57	51	0.34		
Berlin ...	29.60	56	Z	0	o	29.55	- .19	48	47	- 8	WSW	5	0	*	63	46	0.35		
Wiesbaden ...	*	*	*	*	*	29.77	+ .04	51	50	- 7	SW	4	0	*	?	48	0.43		
Munich ...	29.89	49	N	4	r	29.95	+ .09	54	47	- 6	SW	8	0	*	68	45	0.63		
FRANCE & NETHERLANDS.																			
The Helder ...	29.62	54	NNW	1	c	29.75	+ .18	58	51	0	NNW	4	0	3	57	52	0.08		
Brussels ...	*	*	*	*	*	29.89	+ .31	50	49	- 4	WSW	5	0	*	54	50	0.95		
Cape Gris Nez...	29.76	53	NN	8	o	29.94	+ .35	51	49	+ 7	WNW	7	0	5	55	43	0.12		
Paris ...	29.91	56	N	4	c	30.06	+ .30	54	51	+ 3	WSW	3	0	bc	60	51	0.08		
Brest ...	30.16	57	N	5	b	30.20	+ .14	55	54	+ 2	WNW	4	0	3	70	52	—		
Lorient ...	30.09	58	NN	7	o	30.19	+ .20	57	53	+ 2	NN	5	0	2	61	54	—		
Rochefort ...	30.12	61	NN	7	b	30.23	+ .17	57	52	- 1	NNW	5	0	2	66	52	—		
Belfort ...	29.89	56	W	3	c	30.08	+ .26	51	48	- 9	W	4	0	*	62	43	0.20		
Lyons ...	29.98	61	W	3	c	30.16	+ .23	51	48	- 13	WNW	1	0	*	69	44	—		
Nice ...	29.69	77	WSW	5	b	29.89	+ .00	69	56	+ 6	NE	1	0	2	81	45	—		
Perpignan ...	30.03	67	NN	5	b	30.16	+ .13	61	56	- 5	NN	4	0	*	73	51	0.04		
Biarritz ...	30.17	64	WNW	5	o	30.23	+ .15	62	57	+ 1	Z	0	bc	2	66	55	0.12		
PENINSULA.																			
Corunna ...	*	*	*	*	*														
Lisbon ...	30.04	64	NNW	7	b	30.07	+ .02	65	60	+ 1	N	3	0	2	75	59	—		

For Explanation of Columns, see p. 4.

† Received too late for insertion in Charts on p. 2.

WEATHER CHARTS

for 8 a.m. on

Thursday, 12th July

1888.

BAROMETER, WIND & SEA.

(Explanation of Map)

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

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

→ = forces above 10; →→ = forces 8 to 10;

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

○ = dead calm.

Sea Disturbance — where considerable is shown thus.

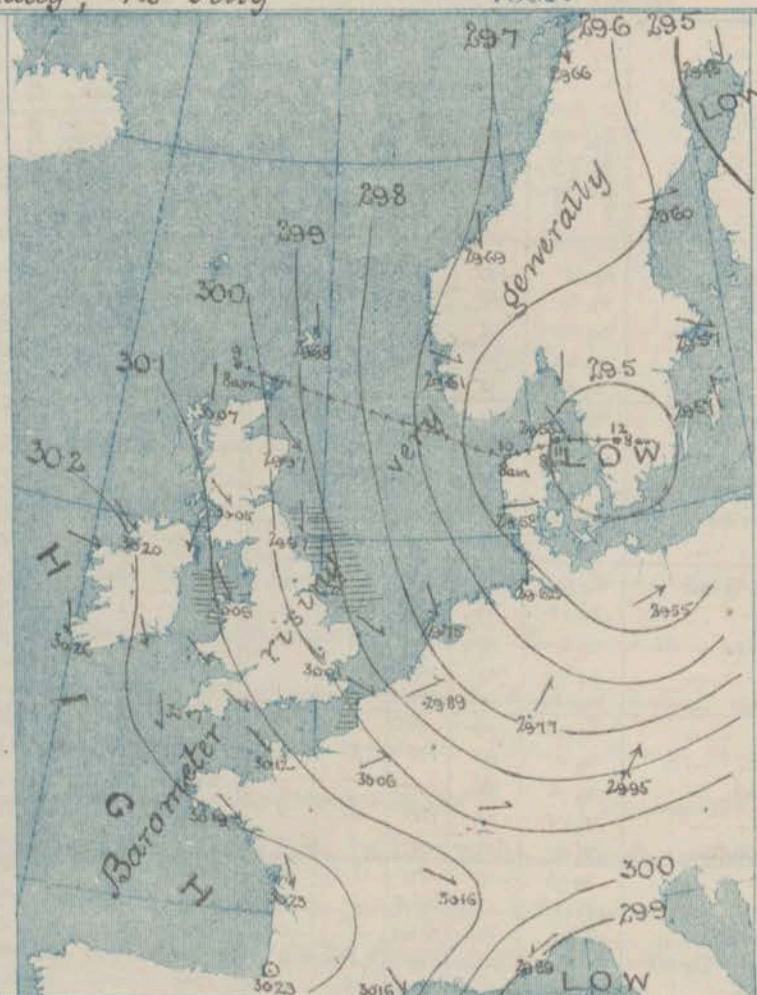
■ = Rough. ■ = High.

MEAN HEIGHT of the BAROMETER

at 8 a.m. for the month of July

During the 15 Years 1871 — 1885.

STATIONS.	MEAN READINGS.
Sumburgh Head	29.794
Stornoway	29.797
Wick	29.810
Nairn	29.821
Aberdeen	29.831
Leith	29.850
Shields	29.876
York	29.910
Loughborough	29.936
Ardrossan	29.862
Donaghadee	29.881
Holyhead	29.918
Liverpool	29.913
Parsonstown	29.921
Valencia	29.939
Roche's Point	29.938
Pembroke	29.942
Scilly	29.984
Jersey	30.009
Hurst Castle	29.974
Dover	29.970
LONDON	29.967
Oxford	29.953
Cambridge	29.947
Yarmouth	29.943



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

Temperature — Isotherms are drawn for each 10° changes since previous morning are stated in words.

Weather is shown by Letters of the Beaufort Scale.

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

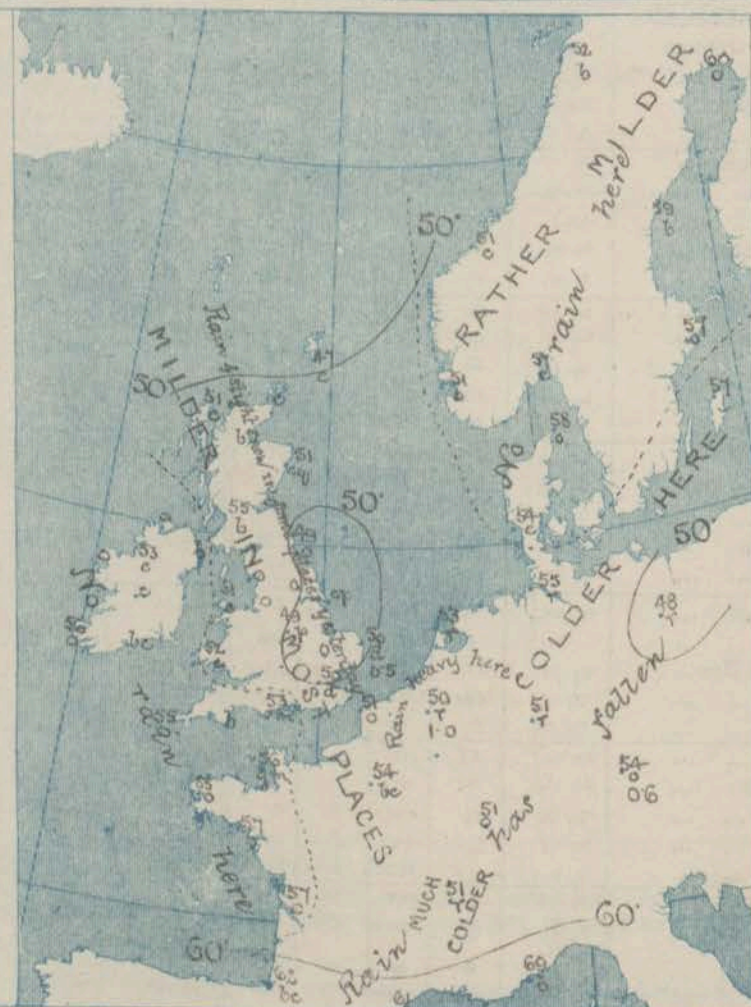
MEANS OF TEMPERATURE IN SHADE.

AND RAINFALL.

for the month of July.

STATIONS.	TEMPERATURE.				RAINFALL. (Inches).
	Daily Max.	Daily Min.	at 3 a.m.		
			Dry.	Wet.	
Sumburgh Head	57.8	48.3	53.6	52.0	2.09
Stornoway	60.2	49.5	56.0	54.0	3.02
Wick	62.2	49.2	56.1	53.8	2.25
Nairn	64.7	51.4	57.2	53.6	2.57
Aberdeen	64.4	51.1	58.0	54.4	2.74
Leith	67.1	51.7	58.6	55.3	2.84
Shields	64.4	52.9	58.6	55.4	2.63
York	68.5	52.1	59.4	56.2	2.57
Loughborough	72.1	53.0	62.0	58.2	2.34
Ardrossan	63.9	53.2	57.5	54.8	2.91
Donaghadee	63.1	51.6	57.4	55.6	2.67
Holyhead	63.9	54.7	58.2	55.9	2.32
Liverpool	66.1	54.4	59.6	55.9	2.99
Parsonstown	66.4	51.9	58.3	54.8	3.01
Valencia	64.1	53.6	58.7	56.3	3.91
Roche's Point	66.7	53.3	58.7	55.8	3.16
Pembroke	62.9	55.0	58.1	55.9	2.31
Scilly	64.5	56.3	60.1	58.0	2.29
Jersey	68.8	56.3	62.2	59.2	2.21
Hurst Castle	67.9	55.7	61.3	58.8	2.15
Dover	67.2	56.9	62.6	58.8	1.82
LONDON	73.0	54.1	62.3	58.1	2.17
Oxford	69.9	53.7	60.2	56.8	2.51
Cambridge	72.3	52.4	61.4	57.9	2.30
Yarmouth	66.8	55.2	61.2	58.1	2.68

NOTE — The Temperature means are for the 15 years 1871 — 85, the Rainfall means are mainly those for the 20 years 1866 — 85.



GENERAL SITUATION AT 8 A.M.

PRESSURE	Highest 30.2 ins. and upwards in a large anticyclone extending from the Bay of Biscay and southwest of France to the south and west of Ireland. Lowest 29.5 ins. and less in a depression lying over the south of Sweden. <i>Gradients moderate. Barometer rising generally.</i>
TEMPERATURE	Highest 69° at Nice, 65° at Lisbon, 62° at Biarritz, 61° at Perpignan, 60° at Haparanda, 59° at Helsingfors and 58° at Skagen. Lowest 47° at Lumbagh Head, 48° at Berlin, 49° at Shields and Loughborough, and 50° at Spurn Head, York, Oxford, London, Harmouth and Brussels. The maxima registered yesterday were below 55° in the north of Scotland as well as over the northern and central parts of England.
WIND	Moderate or fresh from the NW nd over our Islands, the North Sea and the north and west of France. Fresh or strong from the SW nd over Belgium and Germany; light SE ^{ly} in the south of Sweden.
WEATHER	Fair at many of our western and northern stations, but cloudy or overcast elsewhere. Rain is falling over Germany and the Netherlands, and showers over eastern and central England. Rain fell yesterday in the east and south generally, and snow is reported to have occurred in many parts of Great Britain.
SEA	Rather rough off the northeast of England and also at Holyhead, but moderate to smooth elsewhere.

PROBABLE CHANGES IN SYSTEM NOW PREVALENT

The large anticyclone to the southwestward of our Islands appears to be extending slowly eastwards, and the indications are therefore at present rather more favourable than of late. Conditions are however, still somewhat unsettled.

FORECASTS

for the 24 hours ending at NOON on 13th JULY 1888.

DISTRICTS.	FORECASTS.	DISTRICTS.	FORECASTS.
0 SCOTLAND NORTH	N th and NW th winds, fresh; fair to showery.	6 SCOTLAND WEST	NW th winds, moderate or fresh; fair to showery.
1 SCOTLAND EAST		7 ENGLAND N. W.	NW th winds, moderate or fresh; fair generally.
2 ENGLAND N. E.	NW th winds, moderate; some cold showers at first, then fair and milder.	8 ENGLAND S. W.	
3 ENGLAND EAST		9 IRELAND NORTH	Same as N ^o 6.
4 MIDLAND COUNTIES		10 IRELAND SOUTH	Same as N ^{os} 7 and 8.
5 ENGLAND SOUTH			
		WARNINGS	NONE ISSUED.

Note.—The South Cone, point downwards (∇) means that gales, or strong winds, are probable, at first from the Southward (from S.E. round by S. to N.W.) Should it appear likely that a gale beginning from between W. and N.W. is likely to veer towards N. or N.E., the North Cone is hoisted in preference to the South Cone.
The North Cone, point upwards (∆) means that gales, or strong winds, are probable, at first from the Northward (from N.W. round by N. to S.E.) Should it appear likely that a gale beginning from between E. and S.E. is likely to veer towards S. or S.W., the South Cone is hoisted in preference to the North Cone.

YESTERDAY'S 2 P.M. REPORTS.

	Bar.	Dry.	Wet.	Wind.	Wes.	Sea.		Bar.	Dry.	Wet.	Wind.	Wes.	Sea.
Skudsmoes ...	29.52	57	53	NW 6	c	3	Holyhead ...	29.97	52	49	NNW 7	bcg	6
Samburgh Head ...	29.80	49	47	N 4	o	5	Valencia ...	30.23	58	52	N 4	cg	4
Sternoway ...	30.03	52	51	NW 6	o	6	Scilly ...	30.11	58	52	NW 6	bc	6
Aberdeen ...	29.87	51	48	NNW 5	oqr	4	Jersey ...	29.99	59	52	NNW 6	bc	4
Shields ...	29.79	52	48	N 7	c	6	Dungeness ...	29.69	51	50	NW 5	r	0
Ardrossan ...	29.90	60	53	NW 6	bc	4	London ...	29.79	54	50	NW 6	og	*
Malin Head ...	30.06	50	48	NNW 5	o	4	Yarmouth ...	29.64	56	52	NNW 4	c	4
Mullaghmore ...	30.12	55	50	NW 5	om	4	Rochefort ...	30.09	64	56	NW 7	b	3
Belmullet ...	30.20	55	50	NNW 5	o	*							

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

The reports for yesterday morning showed that pressure then varied from 30.1 ins: and more both in the west of Ireland and northwest of Spain, and from rather above 29.5 ins: over the Mediterranean and Black Sea to rather below 29.5 ins: in depressions which lay over several parts of Northern Europe and Russia. In addition to the disturbances noticed on Tuesday a new one had been developed over the North Sea, and under these circumstances gradients for N^W winds had increased greatly over the British Isles. A strong, squally, N^W-wind of exceptionally low temperature for the time of year had consequently set in over the United Kingdom, accompanied by much rain, snow in many places, and thunder and lightning in some. On the Continent conditions were less unfavourable, but in all countries the weather was of an unsettled and somewhat showery character. Temperature was very low except to the southward of the Mediterranean; the highest 8 a.m. readings were 32° at Biskra (Algeria), 34° at Constantinople, 32° at Malta, 31° at Cagliari and Brindisi, 25° at Barcelona and Legna, but readings were below 70° on all the northern shores of the Mediterranean. The lowest values were 44° at Oxford, Cape Girsk, and in London (or 18° below the mean 8 a.m. value for July), 45° at Cambridge and 46° at Loughborough, and 48° at Christianund, Shields and York.

Later in the day the weather improved a little over the British Isles, the wind lulled and the sky cleared. The night was, however, very cold inland.

EXPLANATION OF COLUMNS GIVEN ON PAGE 1.

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

* AN ASTERISK is inserted in all places for which information is not usually received.
† The evening observations are taken at 6 p.m. in France and our Islands with the exception of Oxford, where they are taken at 8 p.m. In Sweden and Denmark, the observations are taken at 8 p.m. (Christiania time).

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

DAILY WEATHER REPORT.

for

Friday 13th JULY

1888.

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

Issued by the Meteorological Office, No. 1, Victoria Road, London, W. 11, England.																		
STATIONS.	+ YESTERDAY EVENING.						8 A.M. TO DAY.										FAST 24 HOURS.	
	Barometer at 32° F. and Sea Level.	Temp. in Shade.	WIND.		Weather.	Barometer. Reading at 32° F. and Sea Level.	Difference from 8 a.m. yesterday.	SHADE TEMP.		WIND.		Weather.	Sea. (0 to 9.)	SHADE TEMP.		Amount of Rainfall.		
			Dir.	Force. (0 to 12.)				Dry.	Wet.	Difference from 8 a.m. yesterday.	Dir.			Force. (0 to 12.)	Max.		Min.	
SCANDINAVIA.																		
Haparanda ..	29.47	63	E	4	o	29.62	+ .17	61	60	+ .1	Z	0	o	*	66	52	0.43	
Hernösand ...	29.58	58	Z	0	c	29.62	+ .02	60	55	+ .1	N	2	c	*	63	48	—	
Stockholm ...	29.52	65	ENE	2	o	29.50	— .07	57	53	0	ESE	2	c	*	61	50	1.06	
Wisby ...	29.48	49	W	2	r	29.47	— .10	55	51	— .2	E	2	bc	*	61	48	0.47	
Bodö ...	29.71	51	Z	0	r	29.71	+ .05	53	50	+ .1	NNW	2	c	1	55	48	0.04	
Christiansund...	29.77	50	NNW	2	f	29.80	+ .11	50	49	— .1	NE	1	o	1	54	46	0.02	
Skudesnaes ...	29.64	50	NNW	8	c	29.72	+ .11	50	47	— .1	NNW	9	c	4	54	50	—	
Christiania Fjord (Færdar)	29.35	68	N	2	bc	29.62	+ .06	57	53	0	NNW	6	c	3	63	55	—	
Skagen (The Scaw)	29.52	58	N	3	o	29.58	+ .08	60	56	+ .2	NNE	3	bc	2	64	55	—	
Fanö ...	29.64	52	NNW	6	c	29.64	+ .06	54	51	0	NW	6	o	*	57	52	—	
BRITISH ISLANDS.																		
Sumburgh Head	29.92	50	NNW	3	b	29.91	+ .03	50	49	+ .3	Z	0	o	3	53	44	—	
Stornoway ...	30.07	55	W	3	o	29.98	— .09	56	56	+ .5	Z	0	o	2	59	49	0.04	
Wick ...	30.05	54	N	2	o	29.95	— .05	55	55	+ .2	W	2	r	3	57	48	0.25	
Nairn ...	30.05	62	NW	3	b	29.96	— .06	54	52	+ .1	SW	1	o	1	63	50	0.04	
Aberdeen...	30.03	58	NW	4	b	29.98	+ .01	52	51	+ .1	SW	1	opm	2	60	48	0.06	
Leith ...	30.02	62	N	1	bc	30.03	+ .02	54	52	— .3	W	3	opm	*	72	51	—	
Shields ...	30.03	54	N	3	c	30.03	+ .06	55	52	+ .6	W	2	o	2	56	44	—	
Spurn Head ...	30.03	53	NNW	5	b	30.05	+ .12	52	51	+ .2	NNW	3	cm	4	54	48	0.05	
York ...	30.04	60	W	1	bc	30.08	+ .11	55	53	+ .5	W	1	r	*	61	42	—	
Loughborough	30.07	57	W	2	o	30.12	+ .12	54	51	+ .5	W	3	o	*	58	45	0.01	
Ardrossan ...	30.08	56	NW	4	c	30.07	+ .02	53	53	— .2	Z	0	o	0	59	50	—	
Malin Head ...	30.18	53	NNW	2	o	30.12	— .02	54	54	+ .3	W	3	af	3	55	51	—	
Mullaghmore ...	30.20	54	NNW	3	og	30.15	— .05	57	56	+ .4	WSW	2	cm	1	58	52	—	
Belmullet ...	30.21	56	WSW	2	o	30.14	— .09	58	56	+ .6	S	3	o	*	59	52	—	
Donaghadee ...	30.16	55	NNE	3	bc	30.12	+ .02	58	56	+ .5	WSW	3	o	2	59	49	—	
Barrow-in-Furness	30.07	57	NW	5	bc	30.09	+ .08	53	51	+ .1	NW	4	o	*	59	51	—	
Liverpool (Bidston)	30.11	56	W	4	b	30.14	+ .11	54	51	+ .1	NNW	3	c	3	59	49	—	
Holyhead ...	30.14	56	NNW	1	b	30.14	+ .05	56	56	+ .5	NNW	1	cm	2	59	47	—	
Parsonstown ...	30.19	63	Z	0	bc	30.17	— .03	58	56	+ .4	Z	0	o	*	65	52	—	
Valencia ...	30.15	61	NNW	2	b	30.18	— .08	58	55	+ .2	ESE	2	o	3	62	49	—	
Roche's Point...	30.22	65	NW	1	b	30.18	— .02	58	54	+ .4	W	1	b	2	66	50	—	
Pembroke ...	30.18	57	NW	2	b	30.18	+ .03	56	55	+ .4	NW	2	bc	1	58	52	—	
Scilly ...	30.22	57	NNW	3	bc	30.22	+ .05	59	55	+ .4	W	2	c	3	59	51	—	
Prawle Point ...	30.17	60	NW	3	b	30.21	+ .09	61	57	+ .5	NW	2	bc	1	66	47	—	
Jersey ...	30.19	60	NNW	4	bc	30.22	+ .10	59	53	+ .3	NW	3	b	3	61	50	—	
Hurst Castle ...	30.11	60	NNE	2	bc	30.18	+ .12	57	55	+ .4	W	3	bc	0	61	47	0.01	
Dungeness ...	30.06	54	NNW	2	w	30.11	+ .13	53	50	+ .1	NW	3	w	2	55	45	0.06	
London ...	30.10	54	NW	2	og	30.13	+ .12	55	50	+ .5	NW	2	bc	*	55	45	0.06	
Oxford ...	30.11	53	NW	1	b	30.15	+ .13	56	52	+ .6	NW	2	b	*	56	43	—	
Cambridge ...	30.09	55	N	1	c	30.12	+ .15	54	52	+ .3	SW	1	o	*	58	43	—	
Yarmouth ...	30.00	50	NNW	4	cpo	30.05	+ .16	56	49	+ .6	NW	4	bc	4	56	44	0.02	
Cuxhaven ...	29.72	51	NW	7	o	29.77	+ .15	55	53	0	NW	6	o	*	58	51	—	
Berlin ...	29.63	53	W	5	r	29.75	+ .20	52	49	+ .4	NNW	5	o	*	57	48	0.59	
Wiesbaden ...	*	*	*	*	*	30.02	+ .25	53	50	+ .2	W	3	o	*	59	50	0.04	
Munich ...	30.10	51	W	5	c	30.10	+ .15	51	48	— .3	SW	5	o	*	57	46	0.04	
FRANCE & NETHERLANDS.																		
The Helder ...	29.91	52	NW	4	o	29.93	+ .18	53	50	0	NW	5	o	4	55	52	0.04	
Brussels ...	*	*	*	*	*	30.07	+ .18	55	49	+ .5	NNW	4	bc	*	73	49	0.12	
Cape Gris Nez...	30.04	54	NNW	5	r	30.10	+ .16	54	51	+ .3	W	3	w	2	55	50	—	
Paris ...	30.12	56	NNW	3	bc	30.19	+ .13	54	52	0	SW	1	b	*	64	48	—	
Brest ...	30.31	57	NW	4	bc	30.28	+ .08	54	50	— .1	NNW	1	c	1	70	46	—	
Lorient ...	30.23	58	NNW	4	o	30.25	+ .06	52	50	— .5	NNW	3	b	2	61	48	—	
Rocheport ...	30.25	62	NW	5	c	30.28	+ .05	58	54	+ .1	NE	4	o	2	68	48	—	
Belfort ...	30.12	57	W	3	c	30.14	+ .06	51	50	0	W	1	o	*	58	46	0.35	
Lyons ...	30.18	57	NNW	3	o	30.19	+ .03	53	50	+ .2	NNW	1	o	*	61	50	—	
Nice ...	29.86	69	SSE	4	b	29.94	+ .05	61	58	— .8	SE	1	c	2	81	57	—	
Perpignan ...	30.13	70	NW	5	b	30.20	+ .04	66	57	+ .5	N	1	b	*	74	54	—	
Biarritz ...	30.23	66	NW	4	b	30.24	+ .01	61	57	— .1	SE	3	b	2	68	55	—	
PENIN. ISLS.																		
Corunna ...	*	*	*	*	*	30.08	+ .01	67	62	+ .2	NNE	1	b	2	81	61	—	
Lisbon ...	30.05	71	NNW	7	b													

For Explanation of Columns, see p. 4.

† Received too late for insertion in Charts on p. 2.

WEATHER

CHARTS

for 8 a.m. on

Friday, 13th July

1888.

BAROMETER, WIND & SEA.

(Explanation of Map)

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

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

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

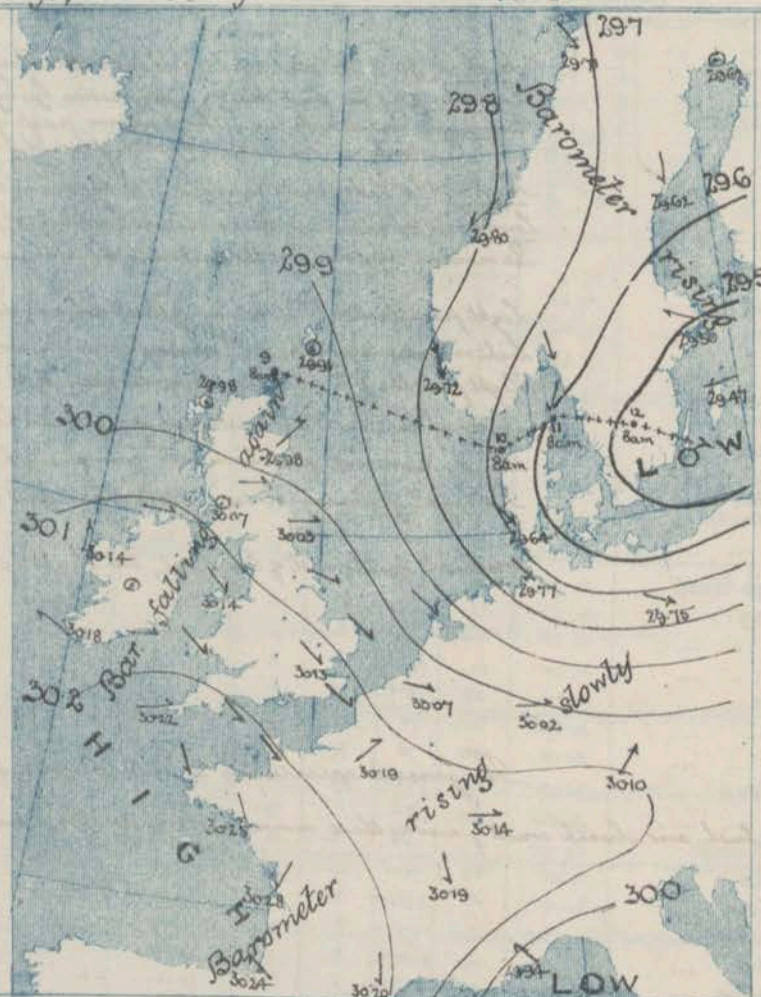
Sea Disturbance — where considerable is shown thus.

■ = Rough ■ = High

MEAN HEIGHT of the BAROMETER

at 6 a.m. for the month of July
During the 15 Years 1871—1885.

STATIONS.	MEAN READINGS.
	in.
Sumburgh Head	29.794
Stornoway	29.797
Wick	29.810
Nairn	29.821
Aberdeen	29.831
Leith	29.850
Shields	29.876
York	29.910
Loughborough	29.936
Ardrossan	29.962
Donaghadee	29.981
Holyhead	29.918
Liverpool	29.913
Parsonstown	29.921
Valencia	29.939
Roche's Point	29.938
Pembroke	29.942
Scilly	29.984
Jersey	30.000
Hurst Castle	29.974
Dover	29.970
LONDON	29.967
Oxford	29.953
Cambridge	29.947
Yarmouth	29.943



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

Temperature — Isotherms are drawn for each 10° Changes since previous morning are stated in words.

Weather — is shown by Letters of the Beaufort Scale.

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

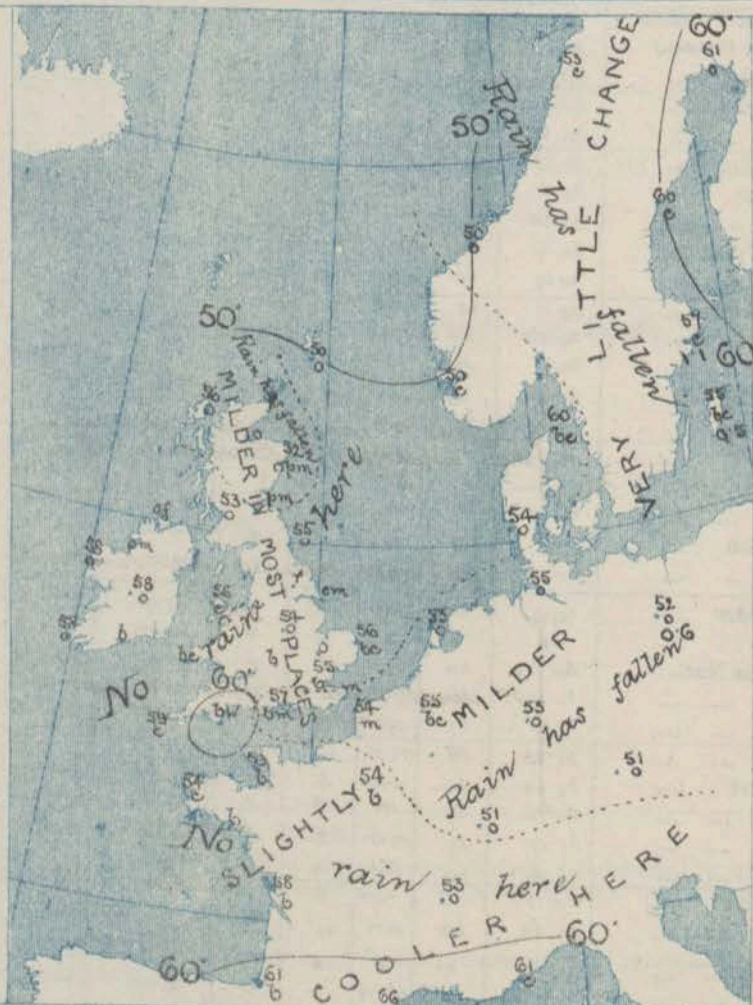
MEANS OF TEMPERATURE IN SHADE.

AND RAINFALL.

for the month of July.

STATIONS.	TEMPERATURE.				RAINFALL. (Inches.)
	Daily Max.	Daily Min.	at 8 a.m. Dry	Wet	
Sumburgh Head	57.8	48.3	53.6	52.0	2.09
Stornoway	60.2	49.5	56.0	54.0	3.02
Wick	62.2	49.2	56.1	53.8	2.25
Nairn	64.7	51.4	57.2	53.6	2.57
Aberdeen	64.4	51.1	58.0	54.4	2.74
Leith	67.1	51.7	58.6	55.3	2.84
Shields	64.4	52.9	58.6	55.4	2.63
York	68.5	52.1	59.4	56.2	2.57
Loughborough	72.1	58.0	62.0	58.2	2.34
Ardrossan	53.9	53.2	57.5	54.8	2.91
Donaghadee	63.1	51.6	57.4	55.6	2.67
Holyhead	63.9	54.7	58.2	55.9	2.32
Liverpool	66.1	54.4	59.6	55.9	2.09
Parsonstown	66.4	51.9	58.3	54.8	3.01
Valencia	64.1	53.6	58.7	56.3	3.91
Roche's Point	66.7	58.3	58.7	55.8	3.16
Pembroke	62.9	55.0	58.1	55.9	2.31
Scilly	64.5	56.3	60.1	58.0	2.29
Jersey	68.8	56.3	62.2	59.2	2.21
Hurst Castle	67.9	55.7	61.3	58.8	2.15
Dover	67.2	56.9	62.6	58.8	1.82
LONDON	73.0	54.1	62.3	58.1	2.17
Oxford	69.9	53.7	60.2	56.8	2.51
Cambridge	72.3	52.4	61.4	57.9	2.30
Yarmouth	66.8	55.2	61.2	58.1	2.68

NOTE — The Temperature means are for the 15 years 1871—85, the Rainfall means are mainly those for the 20 years 1866—85



GENERAL SITUATION AT 8 A.M.

PRESSURE	Highest 30.2 ins. and upwards over the Bay of Biscay, the west of France and the extreme southwest of England. Lowest 29.5 ins. and less in a depression lying over the Baltic and south of Sweden. Gradients moderate over the eastern parts of the North Sea, but slight elsewhere. Barometer falling slowly in the west and north of our islands as well as in the south of Sweden, but rising in most other localities.
TEMPERATURE	Highest 67° at Linton, 66° at Perpignan, 61° at Hypharanda, Pauville Point, Biarritz and Nice, and 60° at Helsingfors and Skagen. Lowest 50° at Christiania, Hudonnas and Lumburg, 49° at Murdock and Belfast, and 52° at Aberdeen, Spurn Head and Berlin. The maxima registered over the southeast of England yesterday were again below 60° generally, but at least the thermometer rose to 72°.
WIND	Light from the SW nd at many of the Irish and Scotch stations, and from the ESE nd at Valencia. Light or moderate from the NW nd over England and the north of France, strong from the same quarter on the eastern shores of the North Sea. Light from the E nd in the south of Sweden and also in the southwest of France.
WEATHER	Fine in the south and southeast of our islands as well as in France, Belgium and some parts of Scandinavia. Cloudy or overcast elsewhere with rain at Wick and York and passing showers at Aberdeen and Leith. Rain fell yesterday at our southeastern and many of the Continental stations, heavily in the south of Sweden.
SEA	Moderate off the east of England, but slight or smooth elsewhere.

PROBABLE CHANGES IN SYSTEM NOW PREVALENT

The general appearance is still unsettled. Small depressions are apparently advancing towards the Irish and Scotch coasts, and as these move eastwards the weather will probably become dull and rainy again in nearly all districts.

FORECASTS

For the 24 hours ending at NOON on 14th JULY 1888.

DISTRICTS.

FORECASTS.

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

SW^{ly} and W^{ly} winds, light or moderate; dull, unsettled, occasional rain.
W^{ly} to SW^{ly} winds, moderate; dull, some rain.
W^{ly} winds, light or moderate; fair to dull and some rain.

DISTRICTS.

FORECASTS.

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

Same as N^{os} 0 and 1.
Same as N^o 2.
Same as N^{os} 3 & 5.
SW^{ly} and S^{ly} winds, light to fresh; unsettled, some rain.

WARNINGS

NONE ISSUED.

Note.—The South Cone, point downwards (↓) means that gales, or strong winds, are probable, at first from the Southward (from S.E. round by S. to N.W.) Should it appear likely that a gale beginning from between W. and N.W. is likely to veer towards N. or N.E., the North Cone is hoisted in preference to the South Cone.
The North Cone, point upwards (↑) means that gales, or strong winds, are probable, at first from the Northward (from N.W. round by N. to S.E.) Should it appear likely that a gale beginning from between E. and S.E. is likely to veer towards S. or S.W., the South Cone is hoisted in preference to the North Cone.

YESTERDAY'S 2 P.M. REPORTS.

	Bar.	Dry.	Wet.	Wind.	Wes.	Sea.		Bar.	Dry.	Wet.	Wind.	Wes.	Sea.	
Skudesnaes ...	30.64	54	50	NW	8	4	Holyhead ...	30.14	58	54	NW	1	b	3
Sumburgh Head ...	30.40	52	49	NNW	3	4	Valencia ...	30.28	62	55	NW	2	bv	2
Stornoway ...	30.09	59	57	W	3	3	Scilly ...	30.22	57	52	NNW	4	c	4
Aberdeen ...	30.00	58	48	NW	5	4	Jersey ...	30.17	60	54	WNW	4	c	3
Shields ...	30.02	56	50	NE	2	4	Dungeness ...	30.04	53	51	WNW	3	o	3
Ardrossan ...	30.06	54	53	NW	5	3	London ...	30.08	58	50	NW	3	o	*
Malin Head ...	30.17	52	50	NW	3	3	Yarmouth ...	29.98	52	50	NW	4	c	4
Malinbeg ...	30.22	50	52	WNW	3	2	Rochefort ...	30.27	67	59	NW	4	c	4
Belfast ...	30.24	50	50	WSW	2	0								

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

The reports for yesterday morning, showed that pressure was still so high as 30.2 ins. over the west of Ireland, the Bay of Biscay, and the north of Spain, and that thence it decreased to less than 29.7 ins. over the whole of Northern Europe and the Baltic, and to rather below 29.5 ins. in two depressions — one lying over Finland and Lapland and the other over the Sound. Cold N^W and NW winds of considerable strength were consequently still prevalent over Scandinavia, the British Isles and North Sea, with dull showery weather over England; in France the wind was more W^N, but the weather was wet and unsettled, while over Central Europe and the Baltic the wind was SW^N and the weather showery. Temperature was again remarkably low over Northwestern Europe — much lower than over Russia and the shores of the White Sea. On the southern side of the Mediterranean, however, readings were high. The highest individual values reported were 33° at Malta, 32° at Biskra (Algeria), 36° at Constantinople, 32° at Cagliari, 31° at Boudia, 26° at Porto and 25° at Licia; in the south of France the values were, as a rule, very little above 60°. The lowest values were 47° at Sumburgh H^d, 49° at Shields and Loughborough, 50° at several other English stations (including London) and also at Copenhagen and Brussels.

During the day the weather improved except in the south, but was very cold, and later on it began to look unsettled in the northern and northwestern parts of the United Kingdom.

EXPLANATION OF COLUMNS GIVEN ON PAGE 1.

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

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

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

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

DAILY WEATHER REPORT.

for *Saturday 14th JULY 1888.*
Issued by the Meteorological Office, 116, Victoria Street, London. R. H. SCOTT, Secretary.

STATIONS.	† YESTERDAY EVENING.						8 A.M. TO DAY.										PAST 24 HOURS.		
	Barometer at 32° F. and Sea Level.	Temp. in Shade.	WIND.			Weather.	BAROMETER.		SHADE TEMP.			WIND.			Sea. (0 to 9.)	Weather.	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.
SCANDINAVIA.																			
Haparanda ..	29.66	62	Z	0	b		29.74	+ .12	67	62	+ 6	NNE	4	c	*		75	52	—
Hernösand ...	29.70	63	NW	4	b		29.63	+ .07	60	57	— 3	N	4	c	*		77	52	—
Stockholm ...	29.63	55	Z	0	o		29.54	+ .09	53	51	— 2	N	6	o	*		63	50	0.04
Wisby ...	29.62	53	NE	2	b		29.50	+ .12	54	53	— 1	NNW	6	r	*		63	45	0.16
Bodö ...	29.78	58	SW	2	c		29.90	+ .12	50	49	— 1	Z	0	f	1		61	48	—
Christiansund...	29.86	61	NE	2	o		29.87	+ .01	52	49	+ 3	ENE	2	b	1		55	45	—
Skudesnaes ...	29.80	50	NW	7	o		29.85	+ .05	51	48	+ 3	NW	4	o	4		58	50	—
Christiania Fjord (Færdar)	29.67	62	N	1	c		29.76	+ .09	60	53	+ 7	N	4	b	2		63	57	—
Skagen (The Scaw)	29.70	57	N	1	o		29.73	+ .03	60	57	— 3	N	2	b	1		66	52	—
Fanö ...	29.81	51	NW	6	o		29.84	+ .03	53	50	— 3	NW	4	o	*		63	50	0.08
BRITISH ISLANDS.																			
Sumburgh Head	29.95	49	Z	0	o		29.96	+ .01	50	47	— 3	Z	0	o	1		53	44	—
Stornoway ...	30.02	60	W	2	r		30.00	+ .02	54	54	— 2	SW	2	o	3		62	57	0.05
Wick ...	30.00	54	NW	3	o		30.00	+ .00	54	54	— 2	NW	2	m	2		58	57	0.10
Nairn ...	30.00	62	WNW	1	b		29.98	+ .02	59	56	+ 3	Z	0	c	1		63	58	0.03
Aberdeen...	29.99	59	NW	2	o		30.01	+ .02	53	52	+ 1	SSE	1	op	1		62	57	0.27
Leith ...	30.04	62	W	1	c		30.01	— .03	60	58	+ 2	W	1	rm	*		71	53	0.05
Shields ...	29.98	62	W	1	od		30.02	+ .04	55	54	— 1	Z	0	om	2		64	53	0.18
Spurn Head ...	30.02	57	NNW	2	o		30.03	+ .01	56	55	+ 1	N	3	c	3		60	57	0.04
York ...	30.03	61	W	2	o		30.03	— .00	57	56	+ 1	NE	1	m	*		64	43	0.05
Loughborough	30.07	62	W	2	o		30.04	— .03	59	57	+ 2	Z	0	om	*		66	53	—
Ardrossan ...	30.05	59	WNW	3	o		30.00	— .05	55	54	+ 1	Z	0	rf	0		60	52	—
Malin Head ...	30.09	57	Z	0	or		29.99	— .10	57	56	+ 1	SE	2	orf	1		58	52	0.25
Mullaghmore ...	30.07	63	Z	0	o		29.99	— .08	59	55	+ 4	NNW	1	om	3		65	54	—
Belmullet ...	30.08	62	SSW	3	b		29.98	— .10	58	56	+ 2	SSE	3	o	*		64	55	—
Donaghadee ...	30.11	56	NE	2	c		30.02	— .09	55	55	— 2	NE	2	o	0		63	54	0.03
Barrow-in-Furness	30.07	58	W	2	c		30.02	— .05	56	55	+ 1	W	1	r	*		61	52	0.01
Liverpool (Bidston)	30.09	58	W	4	o		30.04	— .05	58	56	+ 2	SSE	1	o	2		62	54	—
Holyhead ...	30.11	58	SW	3	c		30.03	— .08	55	54	+ 1	SSW	3	c	2		62	52	—
Parsonstown ...	30.08	67	Z	0	o		30.01	— .07	56	54	+ 2	Z	0	o	*		69	51	—
Valencia ...	30.10	59	SSE	3	o		29.99	— .11	57	46	+ 11	SSW	2	om	2		61	55	0.02
Roche's Point...	30.18	61	SW	3	b		29.99	— .19	57	56	+ 1	S	1	o	2		64	50	—
Pembroke ...	30.14	58	W	2	b		30.05	— .09	57	55	+ 2	S	1	og	0		59	54	—
Scilly ...	30.16	60	Z	0	c		30.01	— .15	55	53	+ 2	ESE	4	o	4		62	51	—
Prawle Point ...	30.15	57	E	4	b		30.06	— .09	59	55	+ 4	E	2	c	1		62	48	—
Jersey ...	30.19	61	W	3	b		30.08	— .11	62	56	+ 6	ESE	1	bom	1		62	47	—
Hurst Castle ...	30.12	62	WSW	5	c		30.06	— .06	59	57	+ 2	NW	1	bom	1		65	53	—
Dungeness ...	30.04	58	WSW	4	c		30.02	— .02	62	58	+ 4	WSW	1	b	2		63	52	—
London ...	30.06	67	WNW	3	o		30.04	— .02	62	58	+ 4	Z	0	o	*		71	55	—
Oxford ...	30.08	62	NW	1	c		30.05	— .03	60	57	+ 3	SW	1	b	*		69	53	—
Cambridge ...	30.05	63	NW	1	o		30.04	— .01	61	58	+ 3	Z	0	o	*		69	53	—
Yarmouth ...	30.03	58	SSW	2	c		30.01	— .02	56	55	+ 1	NNW	3	c	3		62	54	0.02
Cuxhaven ...	29.87	50	NW	7	r		29.94	+ .07	54	51	+ 3	NNW	3	o	*		57	51	0.04
Berlin ...	29.74	54	W	3	r		29.85	+ .11	55	53	+ 2	WNW	2	o	*		59	52	0.24
Wiesbaden ...	*	*	*	*	*		30.07	+ .03	57	48	+ 9	Z	0	a	*		64	43	—
Munich ...	30.11	50	SW	5	o		30.11	+ .00	50	48	+ 2	SW	5	o	*		57	46	0.16
FRANCE & NETHERLANDS.																			
The Helder ...	29.99	55	NW	3	b		29.97	+ .02	58	54	+ 4	NNW	1	c	1		57	52	—
Brussels ...	*	*	*	*	*		30.02	— .03	57	56	+ 1	WSW	1	r	*		65	55	—
Cape Gris Nez...	30.06	57	W	5	c		30.04	— .02	60	59	+ 1	SW	1	o	2		63	54	—
Paris ...	30.13	66	NW	3	b		30.10	— .03	55	52	+ 3	NW	1	b	*		69	45	—
Brest ...	30.22	58	NW	4	c		30.11	— .11	54	50	+ 4	E	3	o	?		71	?	—
Lorient ...	30.17	62	WSW	1	b		30.05	— .12	56	54	+ 2	E	4	o	2		63	50	—
Rochefort ...	30.21	65	NW	4	b		30.08	— .13	58	55	+ 3	SSE	5	o	2		72	52	—
Belfort ...	30.15	52	W	1	o		30.15	+ .00	59	54	+ 5	E	1	b	*		64	45	0.04
Lyons ...	30.01	60	N	3	b		30.11	— .06	55	57	+ 2	N	3	b	*		63	47	—
Nice ...																			
Perpignan ...	30.09	73	NNW	3	b		30.06	— .03	63	57	+ 6	Z	0	b	*		77	48	—
Biarritz ...																			
PENIN- SULA.																			
Corunna ...	*	*	*	*	*														
Lisbon ...	30.03	71	NNW	5	b		30.02	— .01	64	58	+ 6	NW	5	b	2		78	61	—

WEATHER CHARTS

for 8 a.m. on Saturday, 14th July

1888.

BAROMETER, WIND & SEA.

(Explanation of Map)

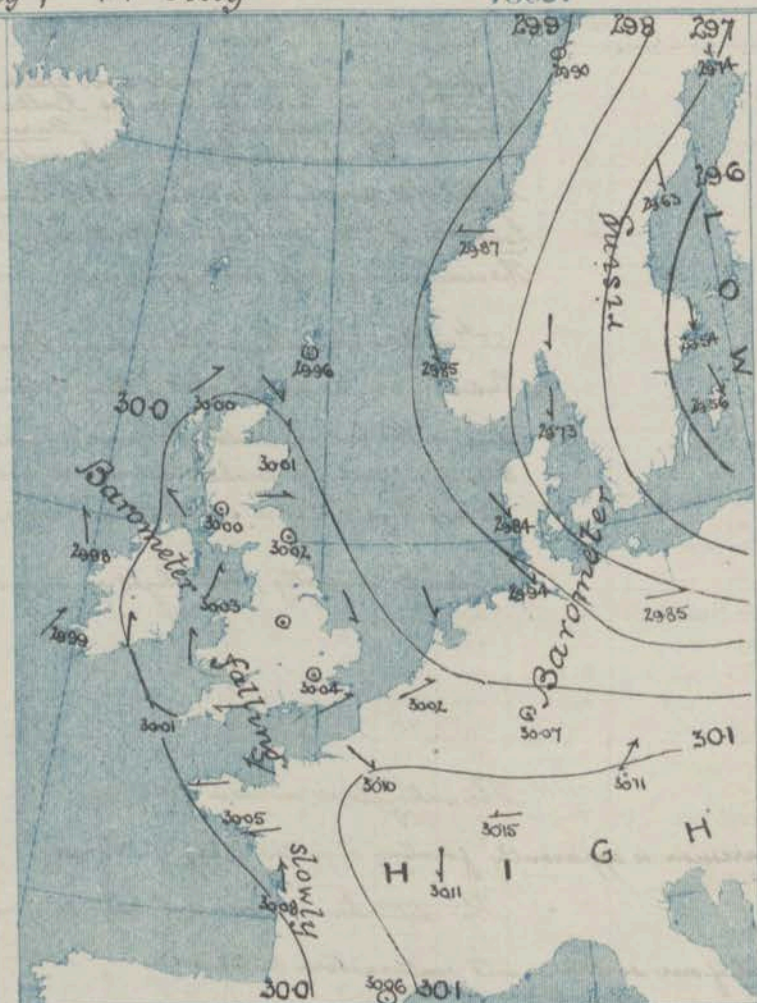
Barometer — Isobars are drawn for each tenth of an inch. Changes since previous morning are stated in words.
Wind — Arrows show the prevalent winds. They fly with the wind and their barbs and feathers refer to force, thus —
 — forces above 10, — forces 8 to 10,
 — forces 5 to 7, — forces 1 to 4,
 ⊙ =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

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

MEAN HEIGHT of the BAROMETER

at 8 a.m. for the month of July
 During the 15 Years 1871—85.

STATIONS.	MEAN READINGS.
Sumburgh Head	29.794
Stornoway	29.797
Wick	29.810
Nairn	29.821
Aberdeen	29.831
Leith	29.850
Shields	29.876
York	29.910
Loughborough	29.936
Ardrossan	29.862
Donaghadee	29.881
Holyhead	29.918
Liverpool	29.913
Parsonstown	29.921
Valencia	29.939
Roche's Point	29.938
Pembroke	29.942
Scilly	29.984
Jersey	30.009
Hurst Castle	29.974
Dover	29.970
LONDON	29.967
Oxford	29.953
Cambridge	29.947
Yarmouth	29.943



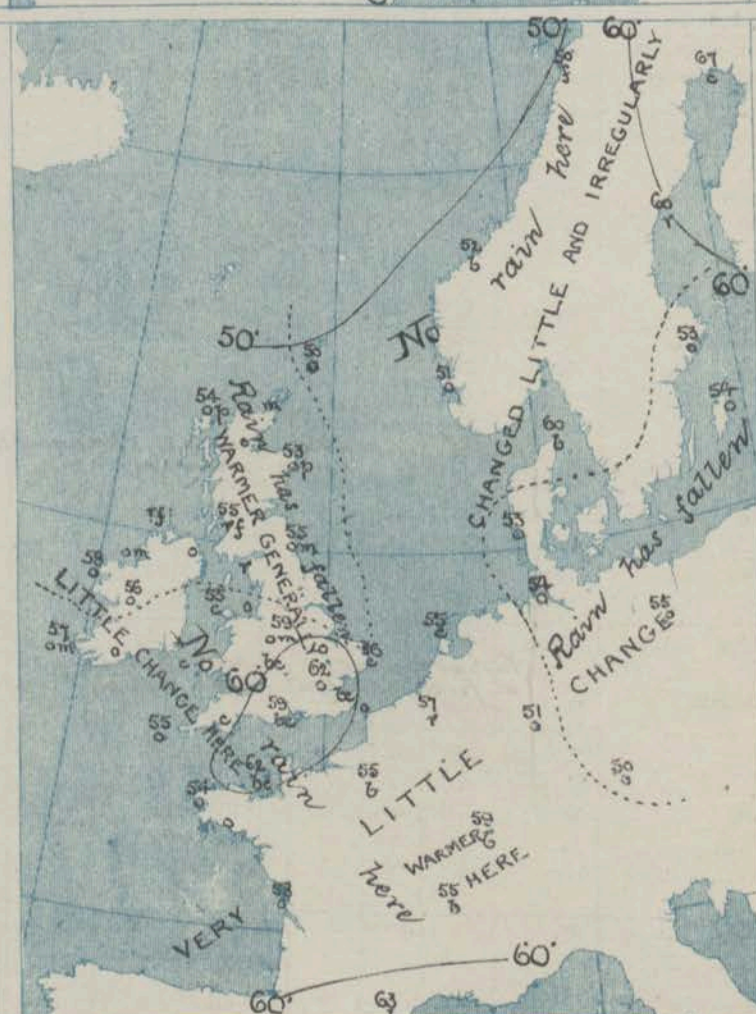
TEMPERATURE, & WEATHER at 8 A.M., with RAINFALL in PAST 24 HOURS.

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

MEANS OF TEMPERATURE IN SHADE. AND RAINFALL. for the month of July.

STATIONS.	TEMPERATURE.				RAINFALL. (Inches)
	Daily Max.	Daily Min.	at 8 a.m. Dry.	Wet.	
Sumburgh Head	57.8	48.3	53.6	52.0	2.09
Stornoway	60.2	49.5	56.0	54.0	3.02
Wick	62.2	49.2	56.1	53.8	2.25
Nairn	64.7	51.4	57.2	53.6	2.57
Aberdeen	64.4	51.1	58.0	54.4	2.74
Leith	67.1	51.7	58.6	55.3	2.84
Shields	64.4	52.9	58.6	55.4	2.63
York	68.5	52.1	59.4	56.2	2.57
Loughborough	72.1	53.0	62.0	58.2	2.34
Ardrossan	63.9	53.2	57.5	54.8	2.91
Donaghadee	63.1	51.6	57.4	55.6	2.67
Holyhead	63.9	54.7	58.2	55.9	2.32
Liverpool	66.1	54.4	59.6	55.9	2.99
Parsonstown	66.4	51.9	58.3	54.8	3.01
Valencia	64.1	53.6	58.7	56.3	3.91
Roche's Point	66.7	53.3	58.7	55.8	3.16
Pembroke	62.9	55.0	58.1	55.9	2.31
Scilly	64.5	56.3	60.1	58.0	2.29
Jersey	68.8	56.3	62.2	59.2	2.21
Hurst Castle	67.9	55.7	61.3	58.8	2.15
Dover	67.2	56.9	62.6	58.8	1.82
LONDON	73.0	54.1	62.3	58.1	2.17
Oxford	69.9	53.7	60.2	56.8	2.51
Cambridge	72.3	52.4	61.4	57.9	2.30
Yarmouth	66.8	55.2	61.2	58.1	2.68

NOTE — The Temperature means are for the 15 years 1871—85, the Rainfall means are mainly those for the 20 years 1866—85



GENERAL SITUATION AT 8 A.M.

PRESSURE

Highest 30.1 ins. and upwards over south Germany and the east and south of France.
Lowest 29.6 ins. and less over the Baltic and southeast of Sweden.

Gradients slight generally.

Barometer falling in most parts of our Islands and France, but rising in Scandinavia, Denmark and Germany.

TEMPERATURE

Highest 67° at Haparanda, 64° at Lisbon, 63° at Perpignan, 62° in London and at Jersey and Dungeness and 61° at Cambridge.

Lowest 50° at Bodo, 49° at Edinburgh, 48° at Munich, 51° at Hudesnaes and Wiesbaden, 53° at Stockholm, and 54° at Wisby and Brest.

The maxima registered over England yesterday were much higher than of late, in London the thermometer rose to 71°.

WIND

SE⁴ on the west coast of our Islands and France; light or moderate in force.

Variable over the central parts of Great Britain; moderate NW⁵ on the eastern shores of the North Sea.

WEATHER

Fine in the east and south of France as well as at many of the Channel stations.

Cloudy in most other localities with rain at several of our northern stations, as well as at Hovisand, Wisby and Brussels.

Rain fell yesterday in the north, east and extreme west of our Islands.

SEA

Moderate at Scilly, but slight or smooth elsewhere.

PROBABLE CHANGES IN SYSTEM NOW PREVALENT

The anticyclone noticed yesterday to the southward of our Islands is now moving away towards Italy, and a depression is apparently forming over the Bay of Biscay.

This disturbance seems likely to spread northwards, and will probably occasion thunderstorms at several of our southern and southeastern stations.

FORECASTS

for the 24 hours ending at NOON on 15th JULY 1888.

DISTRICTS.

FORECASTS.

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

Light variable breezes; changeable, some showers.

Variable breezes, finally SE⁴ or E⁴; fine at first, doubtful later, possibly thunder.

DISTRICTS.

FORECASTS.

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

SE³ winds, light; cloudy, rain locally.

SE³ and E⁴ winds, moderate; fair to unsettled and some rain.

Same as N^o 6 and 7.

WARNINGS

NONE ISSUED.

Note.—The South Cone, point downwards (∇) means that gales, or strong winds, are probable, at first from the Southward (from S.E. round by S. to N.W.) Should it appear likely that a gale beginning from between W. and N.W. is likely to veer towards N. or N.E., the North Cone is hoisted in preference to the South Cone.
The North Cone, point upwards (∆) means that gales, or strong winds, are probable, at first from the Northward (from N.W. round by N. to S.E.) Should it appear likely that a gale beginning from between E. and S.E. is likely to veer towards S. or S.W., the South Cone is hoisted in preference to the North Cone.

YESTERDAY'S 2 P.M. REPORTS.

	Bar.	Dry.	Wet.	Wind.	Wea.	Sea.		Bar.	Dry.	Wet.	Wind.	Wea.	Sea.		
Skudesnaes ...	29.78	53	49	NW	8	c	5	Holyhead ...	30.15	58	56	W	1	c	2
Samburgh Head ...	29.93	50	48	L	0	0	2	Valencia ...	30.14	60	50	SSE	4	og	4
Stornoway ...	30.02	60	59	W	2	0	2	Scilly ...	30.19	60	55	WSW	2	bc	2
Aberdeen ...	29.97	59	57	NW	3	r	2	Jersey ...	30.22	60	55	WNW	3	bc	3
Shields ...	30.00	59	56	W	3	0	2	Dungeness ...	30.08	62	57	WSW	4	bc	4
Ardrossan ...	30.07	59	56	WNW	3	0	2	London ...	30.09	69	58	WNW	3	b	*
Malin Head ...	30.10	57	56	WNW	1	0	2	Yarmouth ...	30.05	62	54	WNW	2	bc	4
Mullaghmore ...	30.11	62	59	SSE	2	0	1	Rochefort ...	30.28	70	61	WNW	4	b	2
Belmullet ...	30.11	62	57	SW	3	b	*								

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

The reports for yesterday morning showed that pressure then varied from 30.2 ins. and more over the Bay of Biscay and mouth of the Channel to a little below 29.5 ins. in a depression lying over the Baltic, and to about 29.9 ins. in another small disturbance which lay over the Gulf of Genoa. NW winds were consequently prevalent over nearly the whole of Western and Central Europe and the British Isles, and blew hard on the eastern shores of the North Sea, while in the Baltic Provinces the wind was S^{ly} and in Sweden E^{ly}. Temperature was recovering a little, but was still low for the time of year, and the weather, though dull and showery over the Baltic and Northern Germany, showed a tendency to improve over the British Isles. The highest thermometric readings recorded at 8 a.m. were 88° at Constantinople, 87° at Beikra, (Algeria) 83° at Cagliari, 80° at Malta, 73° at Brindisi, 78° at Messina, 73° at Lerina, and 70° at Linguistic. On the south coast of France the readings were little above 60°. The lowest were 50° at Lumburgh Head, Christiansund, and Skudesnaes, 51° at Aberdeen, and 50° at Ardrossan and Rodø.

Later in the day the thermometer rose to 63° at Parsonstown and to 71° at Leith and in London, and very little rain fell even in the west and north.

EXPLANATION OF COLUMNS GIVEN ON PAGE 1.

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

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

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

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

DAILY WEATHER REPORT.

for

Sunday 15th JULY 1888.

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

		+ YESTERDAY EVENING.					8 A.M. TO DAY.										PAST 24 HOURS		
STATIONS.		Barometer at 32° F. and Sea Level.	Temp. in Shade.	WIND.		Weather.	BAROMETER.		SHADE TEMP.			WIND.		Weather.	Sea. (0 to 2.)	SHADE TEMP.		Amount of Rainfall.	
				Dir.	Force. (0 to 12.)		Reading at 32° F. and Sea Level.	Difference from 8 a.m. yesterday.	Dry.	Wet.	Difference from 8 a.m. yesterday.	Dir.	Force. (0 to 12.)			Max.	Min.		
SCANDINAVIA.																			
Haparanda ..	29.78	62	Z	0	b	29.84	+ .10	64	55	- 3	NE	4	b	*	75	59	0.04		
Hernösand ...	29.71	61	NE	2	b	29.79	+ .16	62	58	+ 2	NE	2	a	*	73	58	0.16		
Stockholm ...	29.54	55	N	2	o	29.63	+ .09	61	54	+ 8	NNE	4	bc	*	63	50	-		
Wisby ...	29.50	55	NNE	4	r	29.51	- .05	58	51	- 1	NNE	6	c	*	59	50	0.39		
Bodö ...	29.88	49	N	2	f	30.06	+ .16	51	49	+ 1	SSE	1	b	1	57	45	-		
Christiansund...	29.84	56	NE	6	b	29.80	- .07	56	53	+ 4	NE	4	b	2	57	48	-		
Skudesnaes ...	29.81	49	NW	6	o	29.79	- .06	57	50	0	NW	4	o	3	?	48	-		
Christiania Fjord (Færdor)	29.67	63	W	2	bc	29.73	- .03	63	58	+ 3	N	4	b	2	66	60	-		
Skagen (The Scaw)	29.65	57	NW	4	b	29.67	- .06	60	58	0	NNE	1	b	1	60	54	-		
Fanö ...	29.82	52	WNW	6	c	29.78	- .06	52	50	- 1	WNW	5	o	*	57	50	-		
BRITISH ISLANDS.																			
Sumburgh Head	29.95	82	Z	0	o	29.88	- .08	50	48	0	Z	0	o	0	56	44	-		
Stornoway ..	29.97	87	NE	2	b	29.84	- .16	54	53	0	NE	3	o	3	52	43	-		
Wick ...	29.98	54	N	1	o	29.87	- .13	51	51	- 3	S	2	f	2	58	50	-		
Nairn ...	29.94	59	NE	2	bc	29.87	- .11	55	53	- 4	NE	2	o	2	67	49	-		
Aberdeen...	29.98	55	SE	1	o	29.90	- .11	54	52	+ 1	ESE	1	o	1	63	51	-		
Leith ...	29.94	62	W	1	r	29.86	- .15	54	54	- 6	E	1	rm	*	64	53	0.30		
Shields ...	29.96	54	ESE	2	op	29.87	- .15	52	51	- 3	E	3	r	3	58	50	0.10		
Spurn Head ...	29.99	53	ENE	2	c	29.89	- .14	51	50	- 5	NE	3	c	3	60	48	-		
York ...	29.93	59	E	1	o	29.90	- .13	52	52	- 5	E	1	r	*	62	51	0.28		
Loughborough	29.96	63	E	2	o	29.86	- .18	55	55	- 4	ENE	2	o	*	71	54	0.17		
Ardrossan ...	29.94	57	NE	1	r	29.83	- .17	57	56	+ 2	Z	0	rm	0	60	54	0.18		
Malin Head ...	29.94	54	E	1	o	29.82	- .17	56	55	- 1	ESE	1	om	0	59	52	0.15		
Mullaghmore ...	29.93	58	N	3	om	29.80	- .19	58	56	- 1	SSE	1	c	2	60	54	0.19		
Belmullet ...	29.95	59	NNW	2	o	29.82	- .16	57	56	- 1	ENE	1	o	*	65	54	0.03		
Donaghadee ...	29.96	54	SSE	2	om	29.86	- .16	53	53	- 2	SSW	2	r	0	57	47	0.21		
Barrow-in-Furness	29.96	56	NW	1	o	29.85	- .17	56	56	0	E	1	r	*	59	55	1.04		
Liverpool (Bidston)	29.97	55	NNW	1	r	29.84	- .20	55	54	- 3	E	2	r	3	64	54	0.69		
Holyhead ...	29.97	56	SW	1	o	29.83	- .20	55	54	0	Z	0	om	0	59	52	-		
Parsonstown ...	29.93	62	Z	0	o	29.82	- .19	58	55	+ 2	Z	0	o	*	64	51	-		
Valencia ...	29.92	61	SW	2	bc	29.84	- .15	61	58	+ 4	Z	0	c	1	64	49	-		
Roche's Point...	29.94	59	S	2	c	29.82	- .17	58	54	0	NW	1	b	2	61	51	-		
Pembroke ...	29.95	58	N	2	c	29.89	- .16	56	55	- 1	N	3	eg	2	57	52	0.07		
Scilly ...	29.89	57	E	2	o	29.75	- .26	55	54	0	NNE	4	o	4	58	53	0.05		
Prawle Point ...	29.94	56	ENE	2	o	29.73	- .33	57	56	- 2	NNE	4	op	3	62	50	0.10		
Jersey ...	29.92	65	NE	3	o	29.69	- .39	61	60	- 1	E	3	gvt	3	67	59	0.01		
Hurst Castle ...	29.94	60	Z	0	c	29.80	- .26	60	59	+ 1	E	2	cym	1	64	57	0.04		
Dungeness ...	29.97	59	Z	0	c	29.81	- .24	56	55	- 6	E	5	c	4	66	54	-		
London ...	29.96	67	ESE	1	o	29.82	- .22	58	56	- 4	E	3	of	*	71	55	-		
Oxford ...	29.91	63	E	2	o	29.82	- .23	56	55	- 4	ENE	1	ogr	*	68	56	0.08		
Cambridge ...	29.96	64	Z	0	o	29.84	- .20	57	55	- 4	E	1	ow	*	69	54	-		
Yarmouth ...	30.00	57	NNE	1	bc	29.89	- .12	54	53	- 2	E	1	eg	2	59	50	-		
Cuxhaven ...	29.97	50	WNW	3	o	29.91	- .03	54	52	0	WNW	4	o	*	57	49	-		
Berlin ...	29.88	59	Z	0	c	29.83	- .02	53	49	- 2	WNW	3	o	*	57	50	-		
Wiesbaden ...	*	*	*	*	*	29.90	- .17	58	55	+ 7	Z	0	o	*	59	46	-		
Munich ...	30.04	55	Z	0	b	29.94	- .17	58	53	+ 8	Z	0	bc	*	68	43	0.04		
FRANCE & NETHERLANDS.																			
The Helder ...	29.97	55	NNW	1	c	29.89	- .08	55	53	0	WNW	1	c	1	59	54	-		
Brussels ...	*	*	*	*	*	29.86	- .16	58	56	+ 1	ENE	1	o	*	64	52	0.04		
Cape Gris Nez...	29.99	60	N	1	c	29.83	- .21	55	55	- 5	ESE	3	m	1	68	54	-		
Paris ...	29.97	67	ENE	3	c	29.78	- .32	61	57	+ 6	ESE	3	c	*	74	55	-		
Brest ...	29.92	58	N	1	r	29.70	- .41	57	57	+ 3	E	3	r	1	69	46	0.16		
Lorient ...	29.85	63	Z	0	o	29.67	- .38	61	60	+ 5	WSW	1	c	2	70	55	-		
Roche fort ...	29.86	74	SE	4	o	29.80	- .28	63	62	+ 5	WSW	4	o	2	82	68	0.12		
Belfort ...	29.74	69	E	1	b	29.84	- .13	64	59	+ 5	E	1	b	*	87	48	-		
Lyons ...	29.93	71	E	1	b	29.78	- .33	60	55	+ 5	S	1	bc	*	74	54	-		
Nice ...	29.96	73	SW	1	bc	29.95	- .17	67	62	0	ESE	1	bc	1	77	55	-		
Perpignan ...	29.93	67	E	4	o	29.81	- .25	69	65	+ 6	Z	0	o	*	73	?	-		
Biarritz ...	29.82	66	W	7	o	29.8	- .25	62	60	- 2	NW	7	r	2	91	59	1.14		
Corunna ...	*	*	*	*	*	?	?	61	60	- 2	NNW	5	o	5	63	54	1.54		
Lisbon ...	29.97	65	NNW	5	c	29.99	- .03	63	57	- 1	NNW	5	bc	5	81	61	-		

WEATHER CHARTS

for 8 a.m. on

Sunday, 15th July

1888.

BAROMETER, WIND & SEA.

(Explanation of Map)

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

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

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

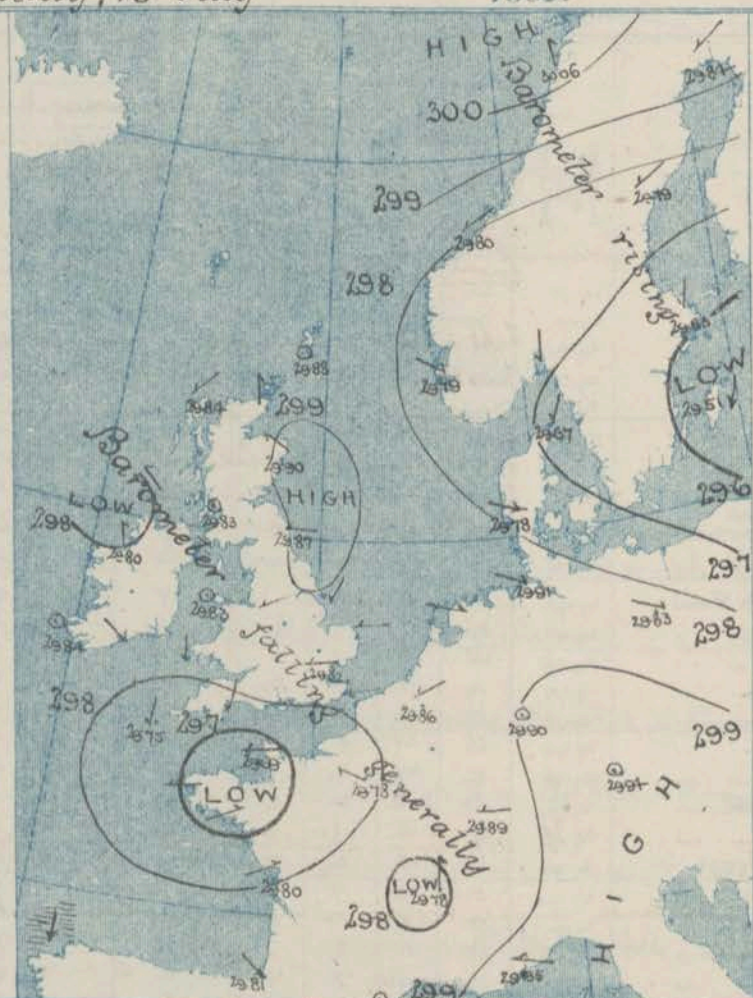
Sea Disturbance — where considerable, is shown thus.

■ = Rough. ■ = High.

MEAN HEIGHT of the BAROMETER

at 8 a.m. for the month of July
During the 15 Years 1871—1885.

STATIONS.	MEAN READINGS.
Sumburgh Head	29.794
Stornoway	29.797
Wick	29.810
Nairn	29.821
Aberdeen	29.831
Leith	29.850
Shields	29.876
York	29.910
Loughborough	29.936
Ardrossan	29.862
Donaghadee	29.881
Holyhead	29.918
Liverpool	29.913
Parsonstown	29.921
Valencia	29.939
Roche's Point	29.938
Pembroke	29.942
Scilly	29.984
Jersey	30.009
Hurst Castle	29.974
Dover	29.970
LONDON	29.967
Oxford	29.953
Cambridge	29.947
Yarmouth	29.943



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

Temperature — Isotherms are drawn for each 10° changes since previous morning are stated in words.

Weather — is shown by Letters of the Beaufort Scale.

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

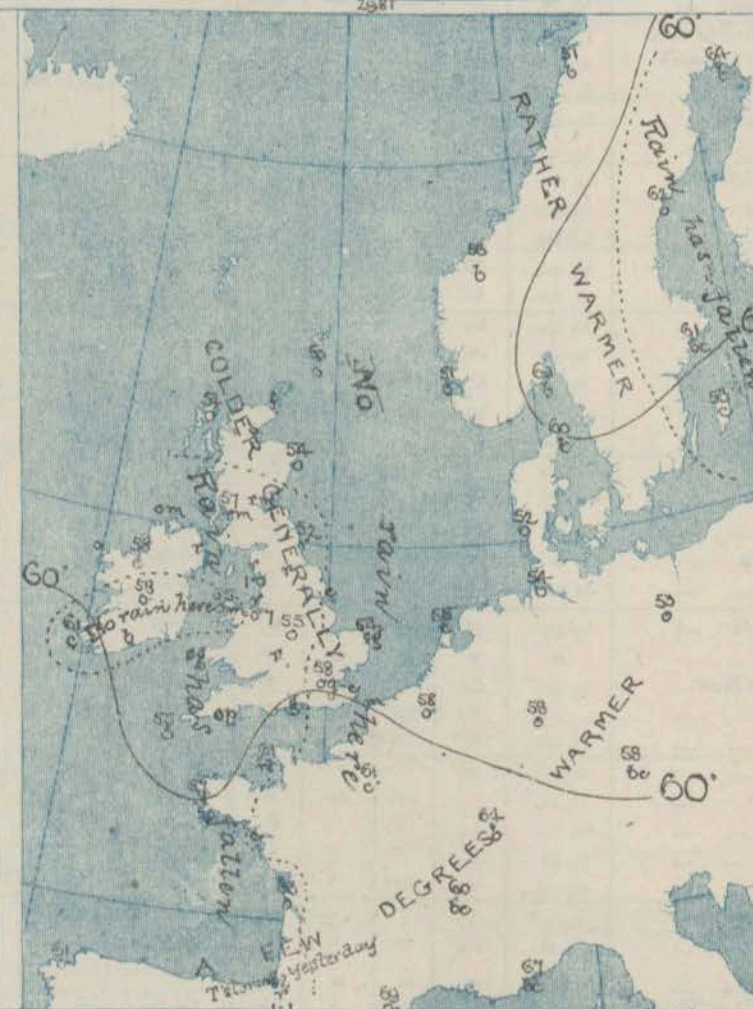
MEANS OF TEMPERATURE IN SHADE.

AND RAINFALL.

for the month of July.

STATIONS.	TEMPERATURE.				RAINFALL. (Inches)
	Daily Max.	Daily Min.	at 8 a.m. Dry.	Wet.	
Sumburgh Head	57.8	48.3	53.6	52.0	2.09
Stornoway	60.2	49.5	56.0	54.0	3.02
Wick	62.2	49.2	56.1	53.8	2.25
Nairn	64.7	51.4	57.2	53.6	2.57
Aberdeen	64.4	51.1	58.0	54.4	2.74
Leith	67.1	51.7	58.6	55.3	2.84
Shields	64.4	52.9	58.6	55.4	2.63
York	68.5	52.1	59.4	56.2	2.57
Loughborough	72.1	53.0	62.0	58.2	2.34
Ardrossan	63.9	53.2	57.5	54.8	2.91
Donaghadee	63.1	51.6	57.4	55.6	2.67
Holyhead	63.9	54.7	58.2	55.9	2.32
Liverpool	66.1	54.4	59.6	55.9	2.99
Parsonstown	66.4	51.9	58.3	54.8	3.01
Valencia	64.1	53.6	58.7	56.3	3.91
Roche's Point	66.7	53.3	58.7	55.8	3.16
Pembroke	62.9	55.0	58.1	55.9	2.31
Scilly	64.5	56.3	60.1	58.0	2.29
Jersey	68.8	56.3	62.2	59.2	2.21
Hurst Castle	67.9	55.7	61.3	58.8	2.15
Dover	67.2	56.9	62.6	58.8	1.82
LONDON	73.0	54.1	62.3	58.1	2.17
Oxford	69.9	53.7	60.2	56.8	2.51
Cambridge	72.3	52.4	61.4	57.9	2.30
Yarmouth	66.8	55.2	61.2	58.1	2.68

NOTE — The Temperature means are for the 15 years 1871—85, the Rainfall means are mainly those for the 30 years 1866—85



GENERAL SITUATION AT 8 A.M.

PRESSURE

Highest, 30.0 in: and upwards, in the north of Norway; 29.9 in: and upwards over South Germany and the southeast of France as well as in Portugal.
Lowest, 29.6 in: and less, in a depression lying over the Baltic; 29.7 in: and less in another disturbance lying over Brittany.
Gradients slight and irregular. Barometer falling at all but the Scandinavian stations.

TEMPERATURE

Highest, 65° at Perpignan, 67° at Aix, 64° at Nîmes and Belfort and 63° at Toulon, Rochefort and Lyons.
Lowest, 50° at Lumburg Head, 51° at Bodø, Skudenes, Nisk and Spurn Head, and 52° at Sand, Shields and York.

WIND

Light or moderate from E or NE in most parts of Great Britain.
Variable in Ireland and the south of France; strong from NW over Spain and the southwest of France.
Moderate NE or N in Scandinavia, NW in the south of Denmark.

WEATHER

Fine at many of the Scandinavian stations as well as in South Germany and the east of France.
Cloudy or overcast elsewhere, with rain over England, the south of Scotland and the north of France, and distant thunder at Jersey.
Heavy rain fell yesterday in the northwest of England, the amount at Banar in Sumatra being as much as 1.0 in.

SEA

Light or smooth generally.

PROBABLE CHANGES IN SYSTEM NOW PREVALENT

The depression which was forming over the Bay of Biscay yesterday has now advanced to Brittany. Other disturbances are apparently advancing over our western district and unsettled weather seems likely to continue generally.

FORECASTS

for the 24 hours ending at NOON on 16TH JULY 1888.

DISTRICTS.

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

FORECASTS.

NONE ISSUED.

DISTRICTS.

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

WARNINGS

FORECASTS.

NONE ISSUED.

NONE ISSUED.

Notes.—The **South Cone**, point downwards (▼) means that gales, or strong winds, are probable, at first from the Southward (from S.E. round by S. to N.W.) Should it appear likely that a gale beginning from between W. and N.W. is likely to veer towards N. or N.E., the **North Cone** is hoisted in preference to the South Cone.
The **North Cone**, point upwards (▲) means that gales, or strong winds, are probable, at first from the Northward (from N.W. round by N. to S.E.) Should it appear likely that a gale beginning from between E. and S.E. is likely to veer towards S. or S.W., the **South Cone** is hoisted in preference to the North Cone.

YESTERDAY'S 2 P.M. REPORTS.

	Bar.	Dry.	Wet.	Wind.	Wca.	Sea.		Bar.	Dry.	Wet.	Wind.	Wca.	Sea.		
Skudesnaes ...	29.86	53	49	NW	6	0	4	Holyhead ...	30.00	58	53	SW	3	0	3
Sumburgh Head ...	29.96	52	49	N	1	0	1	Valencia ...	29.96	60	56	SSE	2	0	2
Stornoway ...	29.99	56	55	S	3	0	3	Scilly ...	30.01	58	55	E	4	0	4
Aberdeen ...	29.99	58	56	SE	1	0	1	Jersey ...	30.00	67	57	E	1	0	1
Shields ...	29.98	58	55	SE	3	0	2	Dungeness ...	30.00	62	59	WSW	2	0	2
Ardrossan ...	29.97	60	58	W	1	0	1	London ...	30.00	67	61	2	0	omg	*
Malin Head ...	29.96	57	56	ENE	1	0	1	Yarmouth ...	30.01	59	56	NNE	3	0	3
Mullaghmore ...	29.96	59	58	2	0	0	2	Rocheport ...	29.96	78	72	SE	4	0	2
Belmullet ...	29.96	64	58	WSW	2	0	*								

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

The Continental Information is not yet to hand.

EXPLANATION OF COLUMNS GIVEN ON PAGE 1.

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

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

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

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

DAILY WEATHER REPORT.

for

Monday

15th JULY 16th

1888.

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

STATIONS.	† YESTERDAY EVENING.					8 A.M. TO DAY.										PAST 24 HOURS.		
	Barometer at 32° F. Sea Level.	Temp. in Shade.	WIND.		Weather.	BAROMETER.		SHADE TEMP.			WIND.		Weather.	Sea. (0 to 9.)	SHADE TEMP.		Amount of Rise or Fall.	
			Dir.	Force. (0 to 12.)		Reading at 32° F. Sea Level.	Difference from 8 a.m. yesterday.	Dry.	Wet.	Difference from 8 a.m. yesterday.	Dir.	Force. (0 to 12.)			Max.	Min.		
SCANDINAVIA.																		
Haparanda ..	29.83	63	Z	0	b	29.90	+ .06	64	55	0	Z	0	b	*	72	54	—	
Hernösand ...	29.82	60	N	0	b	29.89	+ .10	62	54	0	N	2	b	*	77	57	—	
Stockholm ...	29.67	62	NNW	4	0	29.79	+ .16	58	55	—	E	2	0	*	66	52	—	
Wisby ...	29.73	63	W	4	b	29.76	+ .25	52	51	—	N	2	0	*	61	50	—	
Bodö ...	29.88	63	Z	0	b	29.89	— .17	70	56	+ .19	ENE	3	b	2	70	50	—	
Christiansund...	29.75	62	NE	4	b	29.82	+ .02	61	57	+ .5	WSW	1	b	1	66	52	—	
Skudesnaes ...	29.81	52	NW	2	c	29.80	+ .01	58	55	+ .2	Z	0	b	2	?	50	—	
Christiania Fjord (Færder)	29.81	66	WSW	2	b	29.84	+ .11	64	60	+ .1	NNE	2	b	1	70	61	—	
Skagen (The Scaw)	29.76	61	N	1	b	29.80	+ .13	64	60	+ .4	Z	0	b	0	72	57	—	
Fanö ...	29.81	53	WSW	2	c	29.80	+ .02	54	51	+ .2	SSE	4	c	*	59	50	—	
BRITISH ISLANDS.																		
Sumburgh Head	29.82	52	Z	0	0	29.80	— .08	49	48	—	E	1	0	1	58	46	—	
Stornoway ...	29.72	56	E	3	c	29.64	— .20	53	53	—	SE	2	r	2	58	51	0.06	
Wick ...	29.80	57	SE	3	0	29.74	— .13	52	51	+ .1	SE	3	0	3	54	47	0.01	
Nairn ...	29.74	57	E	1	r	29.66	— .21	51	50	—	?	2	op	2	60	49	0.15	
Aberdeen...	29.83	49	SE	2	0	29.72	— .18	50	49	—	E	2	or	2	55	48	0.09	
Leith ...	29.75	54	E	1	r	29.65	— .21	50	49	—	E	2	r	*	59	49	0.24	
Shields ...	29.79	50	ESE	3	r	29.63	— .24	50	50	—	E	3	r	3	54	48	0.40	
Spurn Head ...	29.79	52	E	3	r	29.53	— .36	54	54	+ .3	ESE	5	orm	4	54	50	0.76	
York ...	29.79	53	E	1	r	29.58	— .32	52	52	—	E	2	r	*	56	49	0.68	
Loughborough	29.75	55	ENE	1	r	29.52	— .34	56	56	+ .1	ENE	1	od	*	57	52	0.62	
Ardrossan ...	29.71	55	W	2	r	29.59	— .24	53	52	—	NE	3	r	2	59	51	0.60	
Malin Head ...	29.70	54	SE	3	orm	29.54	— .28	52	52	—	SE	3	orm	2	62	51	0.02	
Mullaghmore ...	29.68	59	E	2	0	29.51	— .29	55	53	—	E	4	orm	2	62	53	0.17	
Belmullet ...	29.67	58	NE	2	r	29.51	— .31	57	55	—	E	2	0	*	60	53	0.01	
Donaghadee ...	29.72	52	NE	1	0	29.56	— .30	52	52	—	E	3	0	2	55	52	0.27	
Barrow-in-Furness	29.73	55	E	3	0	29.34	— .31	52	51	—	NE	2	0	*	57	51	0.33	
Liverpool (Bidston)	29.72	54	ESE	2	0	29.52	— .32	53	51	—	E	2	0	3	57	51	0.11	
Holyhead ...	29.70	58	Z	0	orm	29.49	— .34	55	53	—	E	4	c	3	64	54	—	
Parsonstown ...	29.65	65	Z	0	c	29.50	— .32	54	53	—	Z	0	0	*	65	51	0.12	
Valencia ...	29.68	59	WSW	2	0	29.48	— .36	58	55	—	Z	0	0	1	763	53	0.02	
Roche's Point...	29.69	62	SW	2	b	29.49	— .33	57	55	—	NNW	1	cm	2	65	51	—	
Pembroke ...	29.66	58	E	1	r	29.45	— .44	56	56	—	ESE	2	0	1	62	55	1.93	
Scilly ...	29.65	56	NNW	4	0	29.47	— .28	57	55	+ .2	WNW	1	0	3	57	53	—	
Prawle Point ...	29.62	55	NE	2	r	29.45	— .28	55	55	—	Z	0	r	1	61	53	0.27	
Jersey ...	29.61	66	E	2	orm	29.51	— .18	57	55	—	WSW	5	op	4	69	56	1.13	
Hurst Castle ...	29.65	58	E	2	od	29.47	— .33	58	58	—	SSE	1	od	1	61	57	0.11	
Dunooness ...	29.67	57	E	4	0	29.53	— .28	59	57	+ .3	SSW	4	0	3	69	55	0.05	
London ...	29.69	58	E	3	orm	29.49	— .33	61	59	+ .3	S	2	0	*	61	55	0.82	
Oxford ...	29.67	55	ENE	1	r	29.47	— .35	58	57	+ .2	E	1	r	*	60	53	0.68	
Cambridge ...	29.73	60	E	1	r	29.59	— .3	62	61	+ .5	SE	1	c	*	62	53	0.26	
Yarmouth ...	29.79	54	E	3	ev	29.54	— .35	57	56	+ .3	ESE	3	cm	4	57	52	0.08	
Cuxhaven ...	29.90	55	NW	2	b	29.84	— .07	57	55	+ .3	ESE	4	b	*	57	52	—	
Berlin ...	29.84	58	Z	0	0	29.88	+ .05	58	55	+ .5	Z	0	b	*	59	50	—	
Wiesbaden ...	*	*	*	*	*	29.71	— .19	62	60	+ .4	Z	0	0	*	72	55	—	
Munich ...	29.86	62	NE	1	c	29.78	— .16	64	59	+ .6	E	5	0	*	72	50	—	
FRANCE & NETHERLANDS.																		
The Helder ...	29.78	58	ENE	3	c	29.61	— .28	57	55	+ .2	ESE	1	0	1	61	55	—	
Brussels ...	*	*	*	*	*	29.61	— .25	62	62	+ .4	SSW	1	r	*	72	?	0.08	
Cape Gris Nez...	29.67	61	E	4	0	?	?	64	60	+ .9	S	4	b	2	68	55	—	
Paris ...	29.72	68	SSW	1	0	29.64	— .14	60	57	—	SW	3	0	*	73	59	—	
Brest ...	29.63	56	NNE	3	m	29.63	— .15	57	54	—	WNW	4	0	3	70	46	—	
GERMANY.																		
Lorient ...																		
Rochefort ...	29.87	65	SW	7	a	29.73	— .07	60	58	—	W	5	0	2	70	54	0.16	
Belfort ...	29.82	70	NW	1	c	29.73	— .16	61	60	—	W	1	0	*	76	57	—	
Lyons ...	29.75	70	SSE	1	c	29.72	— .06	57	55	—	S	1	r	*	77	57	0.08	
Nice ...	29.56	68	SE	4	b	29.77	— .18	68	59	+ .1	ENE	3	c	3	73	57	0.04	
Perpignan ...	29.77	69	SE	3	0	29.73	— .08	58	57	—	NW	3	r	*	80	57	0.08	
Biarritz ...	29.87	64	WSW	5	0	29.76	— .08	62	58	—	WSW	7	0	3	64	59	0.08	
PENINSULA.																		
Corunna ...	*	*	*	*	*													
Lisbon ...	30.02	62	NNW	7	b	29.99	— .00	61	60	—	SW	5	0	3	70	59	—	

WEATHER CHARTS

for 8 a.m. on

Monday, 16th July

1888.

BAROMETER, WIND & SEA.

(Explanation of Map)

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

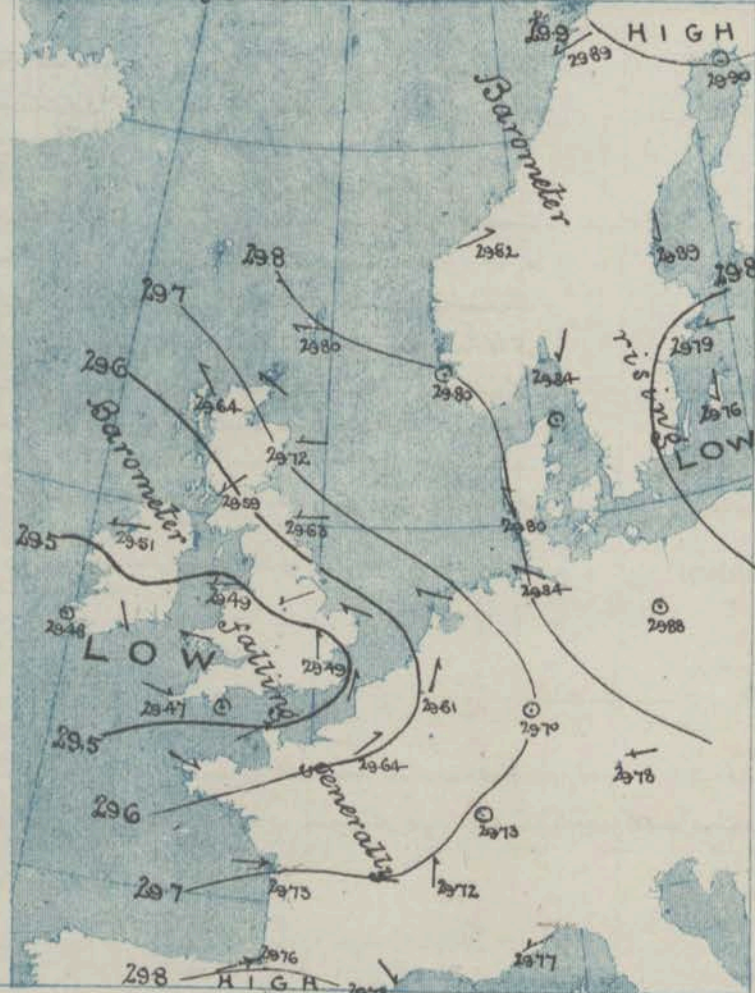
Sea Disturbance — where considerable, is shown thus.

■ = Rough. ■ = High.

MEAN HEIGHT of the BAROMETER

at 8 a.m. for the month of July
 During the 15 Years 1871—1885.

STATIONS.	MEAN READINGS.
Sumburgh Head	29.794
Stornoway	29.797
Wick	29.810
Nairn	29.821
Aberdeen	29.831
Leith	29.850
Shields	29.876
York	29.910
Loughborough	29.936
Ardrossan	29.862
Donaghadee	29.881
Holyhead	29.918
Liverpool	29.913
Parsonstown	29.921
Valencia	29.939
Roche's Point	29.938
Pembroke	29.942
Scilly	29.984
Jersey	30.009
Hurst Castle	29.974
Dover	29.970
LONDON	29.967
Oxford	29.953
Cambridge	29.947
Yarmouth	29.943



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

Temperature — Isotherms are drawn for each 10° changes since previous morning are stated in words.

Weather is shown by Letters of the Beaufort Scale.

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

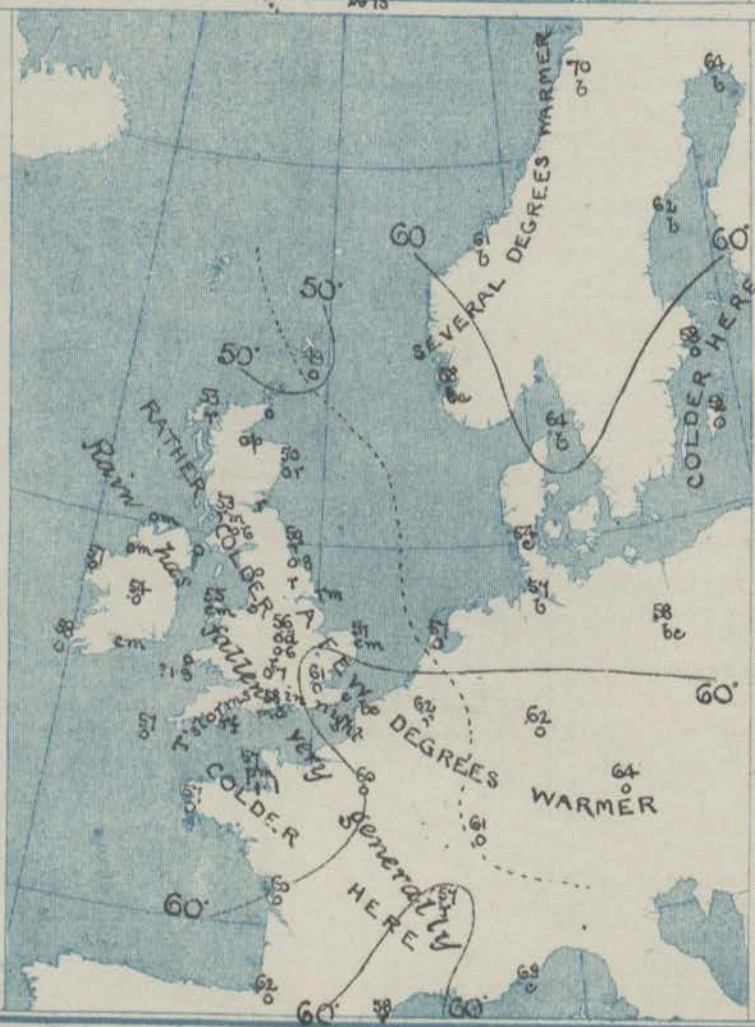
MEANS OF TEMPERATURE IN SHADE.

AND RAINFALL.

for the month of July.

STATIONS.	TEMPERATURE.				RAINFALL. (Inches).
	Daily Max.	Daily Min.	at 8 a.m.		
			Dry.	Wet.	
Sumburgh Head	57.8	48.3	53.6	52.0	2.09
Stornoway	60.2	49.5	56.0	54.0	3.02
Wick	62.2	49.2	56.1	53.8	2.25
Nairn	64.7	51.4	57.2	53.6	2.57
Aberdeen	64.4	51.1	58.0	54.4	2.74
Leith	67.1	51.7	58.6	55.3	2.84
Shields	64.4	52.9	58.6	55.4	2.63
York	68.5	52.1	59.4	56.2	2.57
Loughborough	72.1	53.0	62.0	58.2	2.84
Ardrossan	63.9	53.2	57.5	54.8	2.91
Donaghadee	63.1	51.6	57.4	55.6	2.67
Holyhead	68.9	54.7	58.2	55.9	2.32
Liverpool	66.1	54.4	59.6	55.9	2.09
Parsonstown	66.4	51.9	58.3	54.8	3.01
Valencia	64.1	53.6	58.7	56.3	3.91
Roche's Point	66.7	53.3	58.7	55.8	3.16
Pembroke	62.9	55.0	58.1	55.9	2.31
Scilly	64.5	56.3	60.1	58.0	2.29
Jersey	68.8	56.3	62.2	59.2	2.21
Hurst Castle	67.9	55.7	61.3	58.8	2.15
Dover	67.2	56.9	62.6	58.8	1.82
LONDON	73.0	54.1	62.3	58.1	2.17
Oxford	69.9	53.7	60.2	56.8	2.51
Cambridge	72.3	52.4	61.4	57.9	2.30
Yarmouth	66.8	55.2	61.2	58.1	2.68

NOTE — The Temperature means are for the 15 years 1871—85, the Rainfall means are mainly those for the 20 years 1866—85



GENERAL SITUATION AT 8 A.M.

PRESSURE

Highest 29.99 ins. at Lisbon; 29.90 ins. at Haparanda.
 Lowest 29.45 ins. at Pembroke and Rawle Pt.; 29.5 ins. and less over all the southern parts of Ireland and England.
 Gradients slight and irregular. Barometer falling at all but the Scandinavian stations.

TEMPERATURE

Highest 70° at Bodo, 68° at Nise, and 64 at Haparanda, Farder, Skagen, Cape Gris Nez and Munich.
 Lowest 49° at Lumburgh Head, 50° at Aberdeen, Lath and Shields, 51° at Hain, and 52° at Wick, York, Malin Head, Donaghadee and Barrow-in-Furness.

WIND

Variable on our southwest coasts, but E. or S.E. in all other parts of the United Kingdom.
 S.W. over the Bay of Biscay and the greater part of France; strong in force at Biarritz.
 Light and variable at the Scandinavian stations.

WEATHER

Fine in Scandinavia and Denmark and fair in the extreme southeast of England.
 Dull elsewhere with rain in many parts of the United Kingdom, as well as at Lyons and Perpignan.
 Heavy rain fell yesterday in many places, and thunderstorms occurred during the night in London and at Prawle Point.

SEA

Moderate off the east of England and also at Jersey, but slight or smooth elsewhere.

PROBABLE CHANGES IN SYSTEM NOW PREVALENT

There are at present no signs of any important change in the distribution of pressure. Shallow depressions will probably continue to form over our south and southwest coasts, and unsettled weather is likely in all districts.

FORECASTS

for the 24 hours ending at NOON on 17th JULY 1888.

DISTRICTS.

FORECASTS.

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

E^{ly} and S.E^{ly} winds, moderate; dull, rain at times.

S.E^{ly} and S^{ly} winds, moderate; changeable, some rain, possibly thunder.

DISTRICTS.

FORECASTS.

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

E^{ly} winds, light; dull, rain at times.

Light variable breezes; unsettled, some rain, thunder locally.

Same as N^o 6 and 7.

Same as N^o 8.

WARNINGS

NONE ISSUED.

Note.—The South Cone, point downwards (V) means that gales, or strong winds, are probable, at first from the Southward (from S.E. round by S. to N.W.) Should it appear likely that a gale beginning from between W. and N.W. is likely to veer towards N. or N.E., the North Cone is hoisted in preference to the South Cone.
 The North Cone, point upwards (A) means that gales, or strong winds, are probable, at first from the Northward (from N.W. round by N. to S.E.) Should it appear likely that a gale beginning from between E. and S.E. is likely to veer towards S. or S.W., the South Cone is hoisted in preference to the North Cone.

YESTERDAY'S 2 P.M. REPORTS.

	Bar.	Dry.	Wet.	Wind.	Woa.	Sea.		Bar.	Dry.	Wet.	Wind.	Woa.	Sea.
Skudesnaes ...	29.50	55	52	NW 4	C	3	Holyhead ...	29.74	62	58	ENE 1	om	1
Sumburgh Head ...							Valencia ...						
Stornoway ...	29.77	58	56	E 3	C	3	Scilly ...						
Aberdeen ...							Jersey ...	29.64	65	63	E 3	om	3
Shields ...							Dungeness ...	29.72	57	56	E 4	r	4*
Ardrossan ...							London ...						
Malin Head ...	29.72	59	56	SE 3	0	1	Yarmouth ...						
Mullaghmore ...							Rocheport ...	29.87	68	60	SW 7	0	2
Belmullet ...	29.72	59	56	NNW 2	0	*							

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

The continental information has not yet arrived

SUMMARY OF CHANGES IN THE WEATHER OVER THE BRITISH ISLANDS AND THEIR NEIGHBOURHOOD FROM THE 8TH TO THE 14TH JULY 1888.

The weather of the past week was of a generally unsettled character, and rain fell in all parts of our area. On the 11th and 12th when N. winds blow over the whole of our Islands and their neighbourhood, temperature fell to an unusually low level — especially over England, where the readings were unprecedented for the time of year, and on the former date slight falls of snow were experienced in many parts of Great Britain.

Until the close of the week the highest barometrical pressures were reported to the south westward of our Islands, and on the 9th and 10th a depression — small and unimportant at first, but of growing intensity — travelled from the north of Scotland to Denmark. During its progress moderate to fresh breezes from the SWth and Wth shifting to NW were experienced over western Europe generally, with showers in most districts.

By the night of the 10th when the depression lay near the Skager Rack, a secondary disturbance, — also of increasing intensity — formed over the north of our Islands and moved south-eastwards, and on the 11th when the centre of this system lay off the Norfolk coast a brisk recovery of pressure took place at our western and northern stations. The result was that the wind over our Islands increased considerably from the Nth, and reached the force of a slight gale in some places with showers of rain and snow.

On the 12th the depressions both travelled away in an easterly direction and the wind therefore moderated and backed to the westward, while the weather improved somewhat. Towards the close of the week however, the high pressure system in the southwest travelled in an east-south-easterly direction to southern Europe, and small depressions appeared over our northern districts as well as over the Bay of Biscay and France.

The weather was therefore generally cloudy and unsettled, with rain in many parts of our area. With the exception of the last two days when the thermometer was not much below the average, ^{temperatures} have been exceedingly low for the time of year, especially over England. The maximum temperature of 54° recorded in London on the 11th and 12th was considerably lower than any July maximum observed for very many years past.

EXPLANATION OF COLUMNS GIVEN ON PAGE 1.

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

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

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

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DAILY WEATHER REPORT.

for *Tuesday, 17th July* 1888.
 Issued by the *Meteorological Office, 116, Victoria Street, London. R. H. SCOTT, Secretary.*

STATIONS.	† YESTERDAY EVENING.						8 A.M. TO DAY.										PAST 24 HOURS.		
	Barometer at 32° F. and Sea Level.	Temp. in Shade.	WIND.			Weather.	BAROMETER.		SHADE TEMP.			WIND.			Sea. (0 to 9.)	Weather.	SHADE TEMP.		Amount of Rainfall.
			Dir.	Force (0 to 12.)			Reading at 32° F. and Sea Level.	Difference from 8 a.m. yesterday.	Dry.	Wet.	Difference from 8 a.m. yesterday.	Dir.	Force (0 to 12.)				Max.	Min.	
SCANDINAVIA.																			
Haparanda ...	29.93	62	Z	0	b		30.01	+ .11	62	57	- 2	SE	2	b	*		73	50	-
Hernösand ...	29.95	59	Z	0	b		29.97	+ .08	62	57	- 2	E	2	b	*		62	52	-
Stockholm ...	29.87	59	Z	0	b		29.86	+ .07	60	55	+ 2	N	4	b	*		73	54	-
Wisby ...	29.86	54	E	1	b		29.82	+ .06	64	57	+ 12	NE	2	b	*		64	50	-
Bodö ...	29.94	60	NE	2	b		29.93	+ .04	70	58	0	NE	2	b	1		72	55	-
Christiansund ...	29.82	66	Z	0	b		29.83	+ .01	65	58	+ 4	E	3	b	1		68	57	-
Skudesnaes ...	29.77	64	N	1	c		29.76	- .04	70	58	+ 12	ESE	4	e	3		70	1	-
Christiania Fjord (Farder)	29.80	72	Z	0	b		29.89	+ .05	63	59	- 1	ESE	4	b	2		72	61	-
Skagen (The Scarw)	29.75	64	NE	1	bc		29.75	- .05	62	59	- 2	E	2	bc	2		72	61	-
Fanö ...	29.76	61	SE	4	c		29.60	- .20	58	55	+ 4	NE	6	c	*		66	54	-
BRITISH ISLANDS.																			
Sumburgh Head	29.72	50	NE	3	f		29.73	- .07	56	54	+ 7	NE	3	bc	3		56	49	-
Stornoway ...	29.61	55	E	4	o		29.61	.00	53	52	0	E	3	*	2		57	49	0.06
Wick ...	29.66	52	SE	1	f		29.66	- .08	53	52	+ 1	SE	1	o	1		53	49	0.03
Nairn ...	29.62	52	W	1	f		29.62	- .04	53	52	+ 2	NE	2	b	2		55	49	0.17
Aberdeen ...	29.64	50	E	2	f		29.60	- .12	52	51	+ 2	NE	4	f	4		52	50	0.61
Leith ...	29.57	55	E	2	o		29.54	- .11	53	53	+ 3	NE	1	om	*		53	49	0.50
Shields ...	29.52	52	NE	1	o		29.47	- .16	52	52	- 2	NW	2	o	2		52	49	0.27
Spurn Head ...	29.44	57	ESE	4	bc		29.45	- .08	54	54	0	NW	3	om	3		57	51	0.02
York ...	29.44	57	E	1	f		29.46	- .12	56	55	+ 4	N	1	o	*		58	51	0.37
Loughborough	29.40	63	ESE	1	c		29.45	- .07	61	59	+ 5	W	1	o	*		68	55	0.01
Ardrossan ...	29.51	53	NE	4	o		29.53	- .06	55	54	+ 2	NE	1	o	1		55	51	0.08
Malin Head ...	29.52	51	E	4	om		29.57	+ .03	52	51	0	N	2	o	1		52	50	-
Mullaghmore ...	29.49	56	ESE	4	o		29.57	+ .06	55	53	0	N	2	om	2		57	52	0.08
Belmullet ...	29.51	57	E	2	o		29.62	+ .11	55	53	- 2	NW	2	o	*		61	53	-
Donaghadee ...	29.38	53	NE	2	o		29.52	- .04	53	52	+ 1	NE	3	o	2		54	51	0.02
Barrow-in-Furness	29.41	57	NNE	2	o		29.45	- .09	58	56	+ 6	N	1	c	*		60	51	0.01
Liverpool (Bidston)	29.49	59	ESE	3	c		29.45	- .07	59	57	+ 6	ESE	1	om	2		61	53	0.03
Holyhead ...	29.38	61	ESE	2	cm		29.46	- .03	55	54	0	NNE	1	m	2		62	54	-
Parsonstown ...	29.45	55	Z	0	o		29.47	- .03	54	52	0	Z	0	o	*		59	53	0.06
Valencia ...	29.46	60	N	3	amp		29.62	+ .14	58	56	0	NW	3	c	2		61	55	0.19
Roche's Point ...	29.43	59	WSW	2	c		29.54	+ .05	58	55	+ 1	NNE	4	c	3		63	54	0.25
Pembroke ...	29.38	55	W	1	o		29.45	+ .00	55	55	- 1	N	2	p	1		57	54	0.29
Scilly ...	29.38	57	NNE	1	f		29.49	+ .02	57	56	0	NW	4	om	3		62	53	0.16
Prawle Point ...	29.42	52	SW	2	m		29.46	+ .01	59	56	+ 4	SE	1	bc	0		59	47	0.06
Jersey ...	29.46	61	SSW	4	o		29.40	- .11	59	58	+ 2	NNE	3	opm	3		63	56	0.11
Hurst Castle ...	29.44	57	SW	3	c		29.44	- .03	60	58	+ 2	E	3	bc	1		61	55	0.02
Dungones ...	29.47	59	SW	3	bc		29.45	- .08	63	59	+ 4	SW	2	bc	1		63	54	0.03
London ...	29.44	59	S	3	o		29.47	- .02	57	55	- 4	Z	0	om	*		66	50	1
Oxford ...	29.41	59	S	3	o		29.46	- .01	56	55	- 2	Z	0	b	*		65	50	0.10
Cambridge ...	29.41	60	SE	1	c		29.47	- .03	55	54	- 7	SW	1	o	*		68	49	-
Yarmouth ...	29.47	58	SE	3	c		29.45	- .09	59	57	+ 2	NW	1	c	2		61	54	-
Cuxhaven ...	29.70	59	ESE	4	o		29.57	- .27	59	58	+ 2	E	4	f	*		66	57	0.18
Berlin ...	29.67	66	ESE	1	o		29.43	- .45	60	66	+ 2	E	2	o	*		70	57	-
Wiesbaden ...	*	*	*	*	*		29.55	- .16	62	69	0	SW	3	o	*		72	57	0.71
Munich ...	29.54	67	SW	3	o		29.67	- .11	61	56	- 3	W	5	c	*		75	55	-
FRANCE & NETHERLANDS.																			
The Helder ...	29.46	60	Z	0	f		29.41	- .20	60	59	+ 3	WSW	1	f	1		63	57	0.71
Brussels ...	*	*	*	*	*		29.49	- .12	59	58	- 3	WSW	1	o	*		63	57	0.83
Cape Gris Nez ...	29.49	59	SSW	4	c		29.50	2	62	58	- 2	S	1	bc	0		66	54	-
Paris ...	29.52	65	SSW	1	o		29.49	- .15	58	57	- 2	SE	3	o	*		69	55	-
Brest ...	29.47	57	Z	0	f		29.51	- .12	55	54	- 2	N	5	f	2		70	46	0.28
Lorient ...	29.42	60	SW	5	o		29.43	59	57	58	- 1	NW	3	c	4		63	55	0.08
Rochefort ...	29.63	63	SW	7	o		29.57	- .16	59	58	- 1	W	7	f	2		66	54	0.55
Belfort ...	29.64	59	NW	1	f		29.65	- .08	59	56	- 2	NE	1	b	*		63	50	0.28
Lyons ...	29.68	57	S	1	o		29.66	- .06	56	55	- 1	W	3	f	*		58	53	1.26
Nice ...	29.68	66	E	3	c		29.70	- .07	62	55	- 6	SW	4	b	2		73	55	0.12
Perpignan ...	29.72	66	NW	4	c		29.70	- .03	65	61	+ 7	NW	3	c	*		76	55	0.35
Biarritz ...	29.68	64	NW	5	o		29.69	- .07	62	58	0	W	8	f	4		70	59	0.35
PORTUGAL.																			
Corunna ...	*	*	*	*	*														
Lisbon ...	30.00	64	NW	5	c		30.06	+ .07	64	60	+ 3	NW	5	c	3		70	59	0.04

WEATHER CHARTS

for 8 a.m. on

Tuesday, 17th July.

1888.

BAROMETER, WIND & SEA.

(Explanation of Map)

Barometer — Iso-bars are drawn for each tenth of an inch. Changes since previous morning are stated in words.

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

→ = forces above 10; → = forces 8 to 10;
→ = forces 5 to 7; → = forces 1 to 4;

⊙ = dead calm.

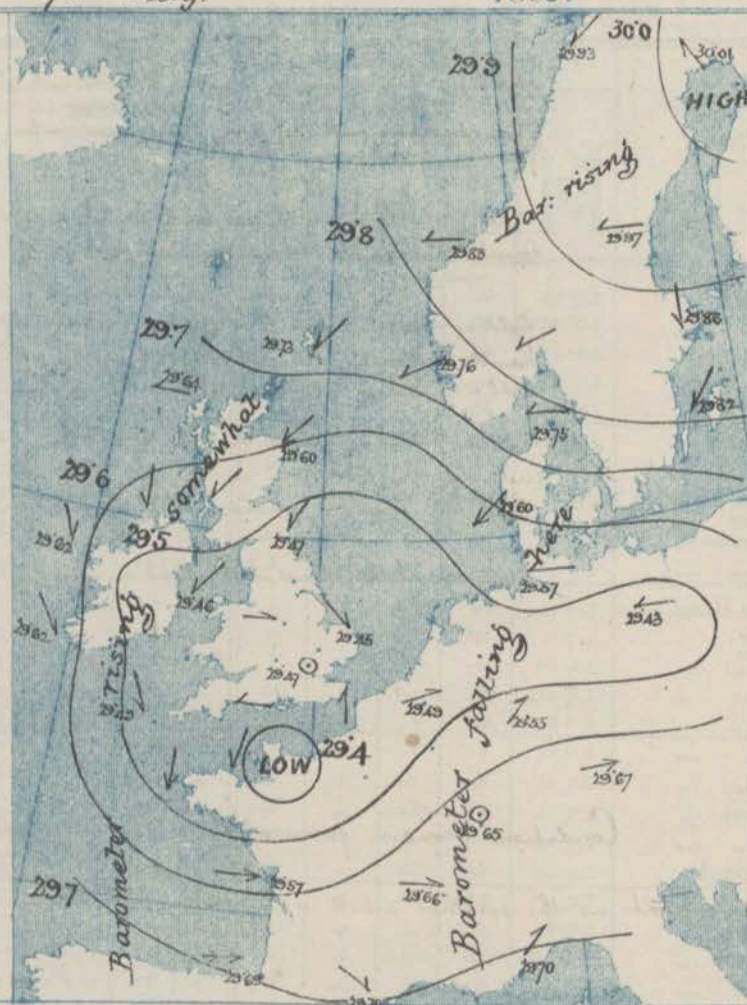
Sea Disturbance — where considerable, is shown thus.

— Rough — High.

MEAN HEIGHT of the BAROMETER

at 8 a.m. for the month of July
During the 15 Years 1871 — 1885.

STATIONS.	MEAN READINGS.
Sumbargh Head	29.791
Stornoway	29.797
Wick	29.810
Nairn	29.821
Aberdeen	29.831
Leith	29.850
Shields	29.876
York	29.910
Loughborough	29.986
Ardrossan	29.862
Donaghadee	29.881
Holyhead	29.918
Liverpool	29.913
Parsonstown	29.921
Valencia	29.939
Roche's Point	29.938
Pembroke	29.942
Scilly	29.984
Jersey	30.009
Hurst Castle	29.974
Dover	29.970
LONDON	29.967
Oxford	29.953
Cambridge	29.947
Yarmouth	29.943



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

Temperature — Isotherms are drawn for each 10° changes since previous morning are stated in words.

Weather — is shown by Letters of the Beaufort Scale.

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

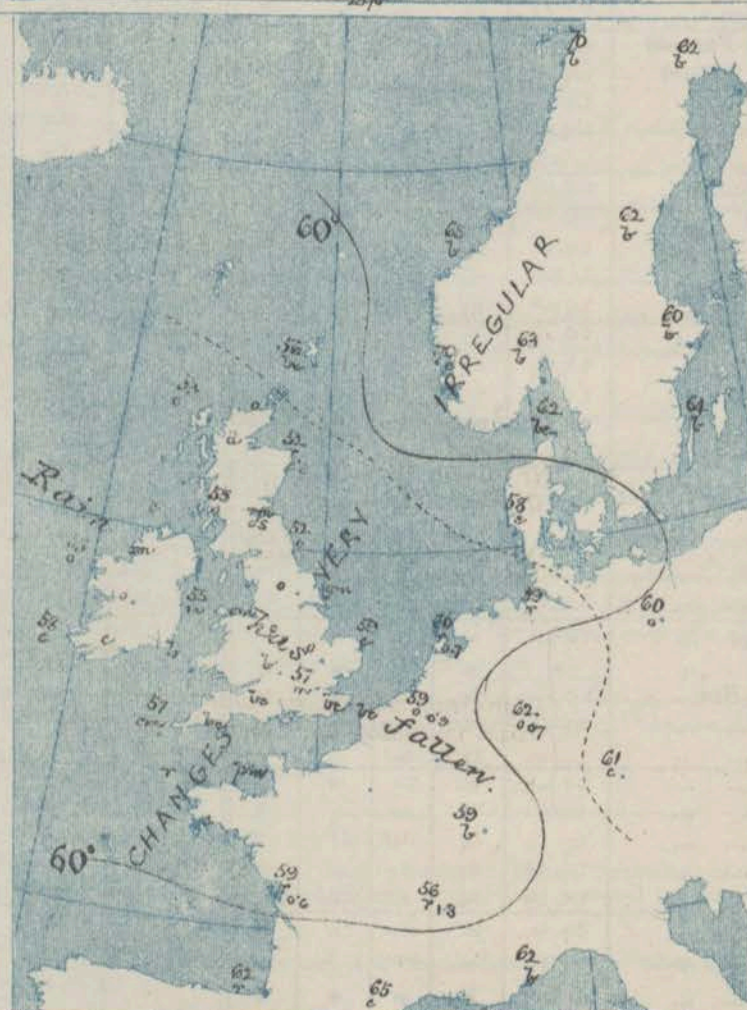
MEANS OF TEMPERATURE IN SHADE.

AND RAINFALL.

for the month of July

STATIONS.	TEMPERATURE.				RAINFALL. (Inches.)
	Daily Max.	Daily Min.	at 8 a.m.		
			Dry.	Wet.	
Sumbargh Head	57.8	48.8	53.6	52.0	2.49
Stornoway	60.2	49.5	56.0	54.0	3.02
Wick	62.2	49.2	56.1	53.8	2.25
Nairn	64.7	51.4	57.2	53.6	2.57
Aberdeen	64.4	51.1	58.0	54.4	2.74
Leith	67.1	51.7	58.6	55.3	2.84
Shields	64.4	52.9	58.6	55.4	2.63
York	68.5	52.1	59.4	56.2	2.57
Loughborough	72.1	53.0	62.0	58.2	2.34
Ardrossan	63.9	53.2	57.5	54.8	2.91
Donaghadee	63.1	51.8	57.4	55.6	2.67
Holyhead	63.9	54.7	58.2	55.9	2.32
Liverpool	66.1	54.4	59.6	55.9	2.99
Parsonstown	66.4	51.9	58.8	54.8	3.01
Valencia	64.1	53.6	58.7	56.3	3.91
Roche's Point	66.7	53.8	58.7	55.8	3.16
Pembroke	62.9	55.0	58.1	55.9	2.31
Scilly	64.5	56.3	60.1	58.0	2.29
Jersey	68.8	56.3	62.2	59.2	2.21
Hurst Castle	67.9	55.7	61.3	58.8	2.15
Dover	67.2	56.9	62.6	58.8	1.82
LONDON	73.0	54.1	62.3	58.1	2.17
Oxford	69.9	53.7	60.2	56.8	2.51
Cambridge	72.3	52.4	61.4	57.9	2.30
Yarmouth	66.8	55.2	61.2	58.1	2.68

NOTE — The Temperature means are for the 15 years 1871 — 85, the Rainfall means are mainly those for the 20 years 1866 — 85



GENERAL SITUATION AT 8 A.M.

PRESSURE

Highest, 30.0 ins: and upwards, over Portugal and also in the north of Sweden.
Lowest, 29.4 ins: and less, in a small depression lying over Normandy, 29.3 ins: at Berlin, 29.45 ins: at Spinn 11th and Yarmouth.
Gradients slight and irregular. Barometer falling in the east of our Islands, as well as over the North Sea, the Netherlands, and Germany, but rising elsewhere.

TEMPERATURE

Highest, 70° at Bodø and Skudenes, 65° at Christiansund and Aker, 64° at Narvik and Luleå, and 63° at Trondheim and Dungeness.
Lowest, 52° at Shields, Aberdeen and Malin Head, 53° at Hornsey, Wick, Nairn, Leith and Donaghadee.

WIND

Light or moderate from E or NE over Scandinavia and Scotland, and from N on our west and southwest coasts.
Variable over Central and South-eastern England, strong from W over the Bay of Biscay.
Light or moderate from W or SW over the Netherlands, the greater part of Germany and the east of France.

WEATHER

Fine in Scandinavia and fair, locally over the southern part of our Islands and France.
Dull elsewhere, with rain in the east of Scotland, and also in the southwest of France.
Rain fell generally yesterday, the largest amount being 1.3 ins: at Lyons, 0.8 in: at Brussels, and 0.7 in: at Helder and Wiesbaden.

SEA

Moderate at Aberdeen, but slight or smooth elsewhere.

PROBABLE CHANGES IN SYSTEM NOW PREVALENT

Conditions remain favourable for the development of shallow depressions over our Islands, and the improvement in the weather which is reported this morning at several of our southern stations is scarcely likely to last.

FORECASTS

for the 24 hours ending at NOON on 18th JULY 1888.

DISTRICTS.

FORECASTS.

- | | | |
|---|------------------|--|
| 0 | SCOTLAND NORTH | NE ^{ly} winds, light; fair generally. |
| 1 | SCOTLAND EAST | NE ^{ly} and N ^{ly} winds, light; some rain at first then fair. |
| 2 | ENGLAND N.E. | N ^{ly} winds, light; drizzle, some rain, thunder locally. |
| 3 | ENGLAND EAST | Light variable airs; cloudy generally with rain in places, and possibly thunder. |
| 4 | MIDLAND COUNTIES | |
| 5 | ENGLAND SOUTH | |



DISTRICTS.

FORECASTS.

- | | | |
|----|---------------|--|
| 6 | SCOTLAND WEST | NE ^{ly} winds, light; drizzle, rain locally. |
| 7 | ENGLAND N.W. | Same as No 2 |
| 8 | ENGLAND S.W. | N ^{ly} winds, light; fair generally, but local showers. |
| 9 | IRELAND NORTH | Same as No 6 |
| 10 | IRELAND SOUTH | Same as No 8 |

WARNINGS

NONE ISSUED.

Note.—The South Cone, point downwards () means that gales, or strong winds, are probable, at first from the Southward (from S.E. round by S. to N.W.) Should it appear likely that a gale beginning from between W. and N.W. is likely to veer towards N. or N.E. the North Cone is hoisted in preference to the South Cone.
The North Cone, point upwards () means that gales, or strong winds, are probable, at first from the Northward (from N.W. round by N. to S.E.) Should it appear likely that a gale beginning from between E. and S.E. is likely to veer towards S. or S.W. the South Cone is hoisted in preference to the North Cone.

YESTERDAY'S 2 P.M. REPORTS.

	Bar.	Dry.	Wet.	Wind.	Wes.	Sea.		Bar.	Dry.	Wet.	Wind.	Wes.	Sea.
Skudesnaes ...	29.81	63	57	W 2	e f	2	Holyhead ...	29.42	62	58	ESE 3	c m	2
Sumburgh Head ...	29.76	50	49	NE 2	o	2	Valencia ...	29.44	57	56	WSW 2	r m	2
Stornoway ...	29.63	56	53	E 5	o	4	Scilly ...	29.41	61	57	WSW 1	o	3
Aberdeen ...	29.67	51	50	E 2	o	2	Jersey ...	29.48	63	58	WSW 5	c	4
Shields ...	29.54	51	50	NE 3	r	3	Dungeness ...	29.53	59	58	S 4	c	3
Ardrossan ...	29.54	54	52	NE 3	r	2	London ...	29.44	64	59	SE 3	o	*
Malin Head ...	29.53	51	51	E 4	o	2	Yarmouth ...	29.52	61	59	SE 3	c	3
Mullaghmore ...	29.49	56	55	E 3	org	2	Rochefort ...	29.69	64	60	W 5	o	2
Belmullet ...	29.49	59	56	NE 2	o	*							

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

The Continental Information for yesterday has not arrived.

Remarks for 24 hours ending at 8 a.m. on Monday July 16th

The reports for Sunday morning showed that pressure was highest 29.9 ins. and upwards in two large areas lying respectively over Austria, Italy, and part of the south-eastward of the Iberian Peninsula. The lowest readings 29.5 ins. and less, were found in a large depression lying over the Baltic, but a smaller disturbance, with readings below 29.7 ins. was reported over Brittany. The wind was moderate or fresh from the NE. over Northern Europe, and light from E. over the greater part of our Islands and the north of France. Over Central and Eastern Europe as well as in Spain it was chiefly W. or NW., while in Italy it was light and variable. The weather was fine in Scandinavia and Northern Russia, as well as over the extreme south of Europe, but cloudy elsewhere, with rain in many parts of our Islands and France. Temperature had fallen a little in our Islands, but risen in France, but elsewhere the changes were slight and irregular; readings ranged from 75° and upwards at several of the Algerian and Mediterranean stations to 55° or less over North Germany and the north and east of our Islands. The highest individual readings were 85° at Biskia, 81° at Palma and Annali, 79° at Cagliari and Malta, 76° at Lagnon, and 75° at Barcelona and Brindisi, the lowest were 50° at Sumburgh H., 51° at Bodø, Skudesnaes, Nisk, and Spinn 11°, and 52° at Shields, York and Warsaw.

In the course of the day further depression appeared over our western district, and unsettled weather continued to prevail in all parts of our Islands, with a smart thunderstorm over England at night.

Remarks for 24 hours ending at 8 a.m. on Sunday July 15th

The reports for Saturday morning showed that pressure was highest 30.1 ins. and upwards, over the eastern and central parts of France, south Germany and Switzerland, and lowest 29.5 ins. and less, in a large depression, lying over the Baltic and Gulf of Finland. The wind was moderate from NE. over northern Russia and fresh or strong from N. or NW. over Sweden and the Baltic, moderate from NW. over the North Sea, and from W. or SW. in Germany. On the west coast of our Islands and France, however, moderate SE. breezes were reported while over Southern Europe the wind was light and variable. The weather was fine over the greater part of Southern Europe, as well as at some of our southern stations, but cloudy elsewhere with rain over the Baltic, Holland and the north of our Islands. Temperature had risen in several parts of our Islands and France, but fallen in most other localities, readings ranged from 70° and upwards at most of the Spanish, Algerian, and Italian stations to 55° or less over Central Europe and the north of the British Isles. The highest individual readings were 88° at Cagliari, 79° at Constantinople, 78° at Malta, 75° at San Fernando, Palermo, and Annali, and 74° at Brindisi, the lowest were 50° at Bodø, Sumburgh H., Munich and Breslau, 51° at Skudesnaes, Niskaden, Hamburg and Munster, and 52° at Christiansund and Warsaw.

Later in the day the high pressure system over France moved eastwards, and depressions began to form over the Bay of Biscay and our western coasts. Rain, therefore, set in at several of our western and southern stations, and conditions became generally unsettled.

EXPLANATION OF COLUMNS GIVEN ON PAGE 1.

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

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

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

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

DAILY WEATHER REPORT.

for Wednesday 18th JULY 1888.
 Issued by the Meteorological Office, 116, Victoria Street, London. R. H. SCOTT, Secretary.

STATIONS.	† YESTERDAY EVENING.						8 A.M. TO DAY.										PAST 24 HOURS.		
	Barometer at 32° F. and Sea Level.	Temp. in Shade.	WIND.		Weather.		BAROMETER.		SHADE TEMP.			WIND.		Weather.	Sea 0 to 9.		SHADE TEMP.		Dist. from Fall.
			Dir.	Force (0 to 12.)			Reading at 32° F. and Sea Level.	Difference from 8 a.m. yesterday.	Dry.	Wet.	Difference from 8 a.m. yesterday.	Dir.	Force (0 to 12.)				Max.	Min.	
SCANDINAVIA.																			
Haparanda ..	29.91	62	Z	0	b		29.85	- .16	67	62	+ 5	S	2	b	*		72	50	—
Hernösand ...	29.93	60	Z	0	b		29.91	- .06	62	55	0	NNE	2	b	*		75	46	—
Stockholm ...	29.82	59	ENE	2	b		29.75	- .11	64	57	+ 4	NE	6	b	*		73	54	—
Wisby ...	29.76	60	ENE	2	b		29.65	- .17	64	58	0	E	4	b	*		72	50	—
Bodö ...	29.92	67	NNE	2	b		29.88	- .05	60	55	- 10	NNE	1	b	1		70	52	—
CHRISTIANIA.																			
Christiansund...	29.75	65	NE	3	b		29.78	- .05	67	58	+ 2	ESE	4	b	2		73	61	—
Skudesnaes ...	29.73	61	W	2	c		29.77	+ .01	69	57	- 1	ENE	4	b	3		79	61	—
Christiania Fjord (Farder)	29.76	65	ENE	4	b		29.78	- .11	61	56	- 2	NNE	5	b	2		64	59	—
Skagen (The Seaw)	29.66	63	ENE	3	b		29.65	- .10	62	57	0	ENE	4	c	3		73	57	—
Fanö ...	29.53	59	NE	6	c		29.54	- .06	63	59	+ 5	NE	6	bc	*		63	55	—
SCOTLAND.																			
Sumburgh Head	29.77	59	NE	1	b		29.78	+ .05	60	55	+ 4	NE	2	b	2		62	51	—
Stornoway ...	29.64	58	NE	4	c		29.78	+ .14	57	55	+ 4	E	2	o	2		59	49	0.06
Wick ...	29.72	55	ESE	2	bc		29.77	+ .11	63	60	+ 10	NW	2	bc	2		63	49	0.01
Nairn ...	29.65	58	NE	2	o		29.78	+ .16	58	55	+ 5	Z	0	o	0		62	51	0.10
Aberdeen...	29.68	54	E	2	o		29.74	+ .14	62	56	+ 10	NNE	2	c	3		63	52	0.12
ENGLAND.																			
Leith ...	29.59	55	ENE	2	r		29.69	+ .15	54	53	+ 1	E	2	o	*		55	51	0.47
Shields ...	29.55	53	NE	1	r		29.60	+ .13	52	51	0	NNE	2	r	2		54	50	0.58
Spurn Head ...	29.45	54	NNW	4	r		29.52	+ .07	54	53	0	ENE	3	c	4		55	51	0.45
York ...	29.47	56	N	1	r		29.55	+ .09	55	54	- 1	NE	1	m	*		63	51	0.81
Loughborough	29.44	61	ENE	1	o		29.50	+ .05	56	55	- 5	NE	1	og	*		69	52	0.29
IRELAND.																			
Ardrossan ...	29.54	56	NE	1	r		29.69	+ .16	58	56	+ 3	ENE	3	om	2		61	53	0.05
Malin Head ...	29.58	54	NNW	3	o		29.74	+ .17	53	53	+ 1	NNW	2	of	1		55	52	0.06
Mullaghmore ...	29.71	57	NW	4	o		29.75	+ .18	56	55	+ 1	NNE	4	o	2		58	53	0.13
Belmullet ...	29.67	58	NNW	2	o		29.79	+ .17	58	55	+ 3	N	2	o	*		61	55	0.10
Donaghadee ...	29.55	56	NE	4	o		29.65	+ .13	53	53	0	NE	5	o	3		60	52	0.17
SCOTLAND.																			
Barrow-in-Furness	29.46	58	NE	3	r		29.55	+ .10	56	54	- 2	NNE	5	o	*		63	54	0.48
Liverpool (Bidston)	29.48	57	NNW	1	o		29.51	+ .06	53	52	- 6	NE	3	om	2		64	53	0.53
Holyhead ...	29.51	55	NNW	3	c		29.54	+ .08	54	53	- 1	N	5	rm	5		58	53	0.89
Parsonstown ...	29.61	58	Z	0	o		29.66	+ .19	55	53	+ 1	NW	2	r	*		60	53	0.06
Valencia ...	29.69	60	NNW	3	bc		29.87	+ .19	59	57	+ 1	NNW	3	opg	3		64	55	—
ENGLAND.																			
Roche's Point...	29.59	59	NNW	5	c		29.67	+ .13	57	55	- 1	N	5	c	4		61	55	—
Pembroke ...	29.52	55	N	3	c		29.56	+ .11	54	54	- 1	NW	4	r	2		56	53	0.28
Scilly ...	29.67	58	NW	4	o		29.66	+ .17	57	55	0	NW	6	o	5		60	54	0.02
Prawle Point ...	29.48	60	NNW	5	bc		29.57	+ .11	56	55	- 3	W	3	og	2		65	52	0.04
Jersey ...	29.51	60	W	4	bc		29.59	+ .14	58	57	- 1	NNW	3	omdg	3		62	56	0.04
SCOTLAND.																			
Hurst Castle ...	29.47	62	WSW	3	c		29.51	+ .07	58	58	- 2	NNW	2	omf	1		67	57	0.02
Dungeness ...	29.44	61	Z	0	bc		29.49	+ .04	56	56	- 7	SW	2	f	2		65	56	0.01
London ...	29.45	61	SSW	1	ogc		29.50	+ .03	62	60	+ 5	Z	0	c	*		68	56	0.12
Oxford ...	29.46	63	N	2	o		29.49	+ .03	58	57	+ 2	SW	1	o	*		70	56	0.02
Cambridge ...	29.43	62	Z	0	c		29.50	+ .03	60	59	+ 5	Z	0	o	*		70	54	0.01
ENGLAND.																			
Yarmouth ...	29.45	59	ESE	1	bc		29.51	+ .06	59	57	0	SE	1	b	2		62	55	—
Cuxhaven ...	29.56	57	ENE	3	r		29.39	- .18	58	58	- 1	N	1	r	*		59	55	0.78
Berlin ...	29.47	59	Z	0	o		29.47	+ .04	62	59	+ 2	NNW	1	bc	*		64	54	0.47
Wiesbaden ...	*	*	*	*	*		29.57	+ .02	61	57	- 1	SW	2	o	*		73	55	—
Munich ...	*	*	*	*	*														
FRANCE & NETHERLANDS.																			
The Helder ...	29.47	60	SW	1	b		29.50	+ .09	59	57	- 1	N	1	c	1		64	57	—
Brussels ...	*	*	*	*	*		29.50	+ .01	60	58	+ 1	WSW	3	o	*		68	59	0.12
Cape Gris Nez...	29.45	63	Z	0	c		29.50	+ .00	57	55	- 5	SW	3	f	1		66	55	0.08
Paris ...	29.49	63	SSW	3	c		29.58	+ .09	59	57	+ 1	SW	1	o	*		70	55	0.04
Brest ...	29.66	55	N	4	m		29.75	+ .24	56	54	+ 1	W	5	o	3		70	46	—
FRANCE & NETHERLANDS.																			
Lorient ...	29.59	59	NW	7	o		29.69	+ .26	57	56	- 2	NW	5	o	5		60	57	0.04
Rochefort ...	29.71	64	W	8	c		29.76	+ .19	61	59	+ 2	NNW	7	c	2		66	55	0.59
Belfort ...	29.67	60	W	1	c		29.69	+ .04	54	53	- 5	WSW	1	r	*		66	51	0.47
Lyons ...	29.63	66	SW	3	bc		29.72	+ .06	59	53	+ 3	S	3	c	*		67	55	0.24
Nice ...	29.65	66	W	3	c		29.66	- .04	65	65	+ 3	WSW	1	b	3		73	59	2.84
FRANCE & NETHERLANDS.																			
Perpignan ...	29.78	69	W	4	o		29.85	+ .15	61	59	- 4	NW	3	o	*		75	54	0.08
Biarritz ...	29.87	64	NNW	8	o		29.87	+ .18	59	55	- 3	W	8	r	4		66	57	0.71
SPAIN.																			
Corunna ...	*	*	*	*	*														
Lisbon ...	30.15	63	NNW	5	b		30.13	+ .07	64	62	0	NNW	5	o	5		72	59	—

WEATHER CHARTS

for 8 a.m. on

Wednesday, 18th July,

1883.

BAROMETER, WIND & SEA.

(Explanation of Map)

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

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

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

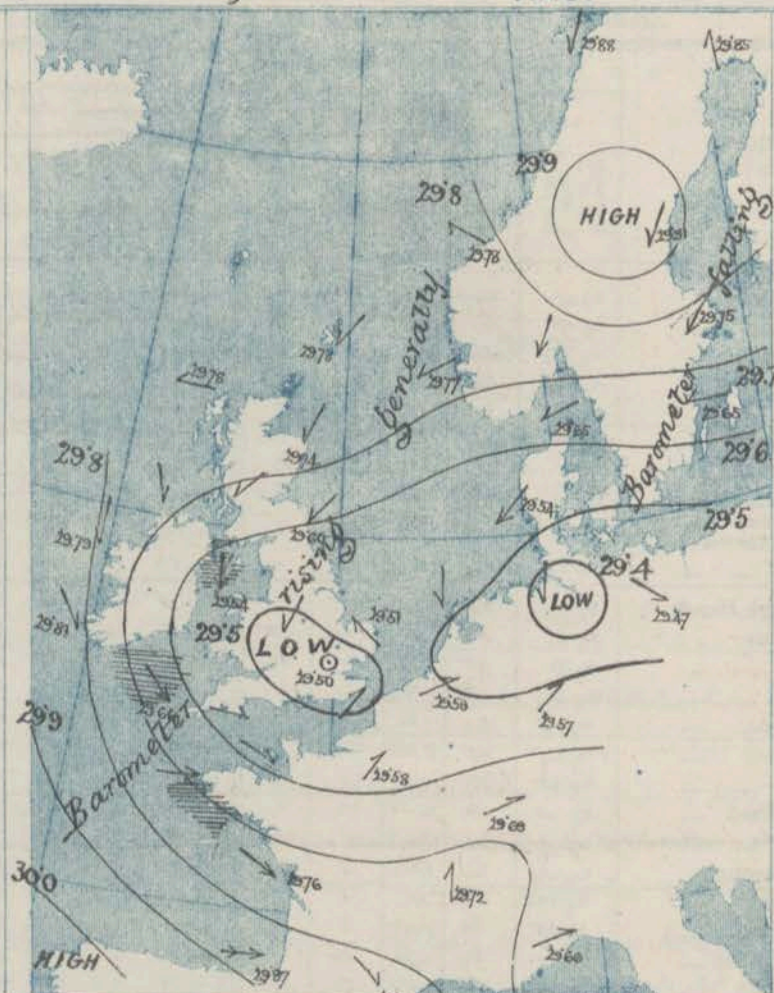
Sea Disturbance — where considerable is shewn thus.

— Rough — High

MEAN HEIGHT of the BAROMETER

at 8 a.m. for the month of July
During the 15 Years 1871 — 1885.

STATIONS.	MEAN READINGS.
Sumburgh Head	29.791
Stornoway	29.797
Wick	29.810
Nairn	29.821
Aberdeen	29.831
Leith	29.850
Shields	29.875
York	29.910
Loughborough	29.936
Ardrossan	29.962
Donaghadee	29.981
Holyhead	29.918
Liverpool	29.913
Parsonstown	29.921
Valencia	29.939
Roche's Point	29.938
Pembroke	29.942
Scilly	29.984
Jersey	30.000
Hurst Castle	29.974
Dover	29.970
LONDON	29.967
Oxford	29.953
Cambridge	29.947
Yarmouth	29.943



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

Temperature — Isotherms are drawn for each 10° Changes since previous morning are stated in words.

Weather — is shown by Letters of the Beaufort Scale.

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

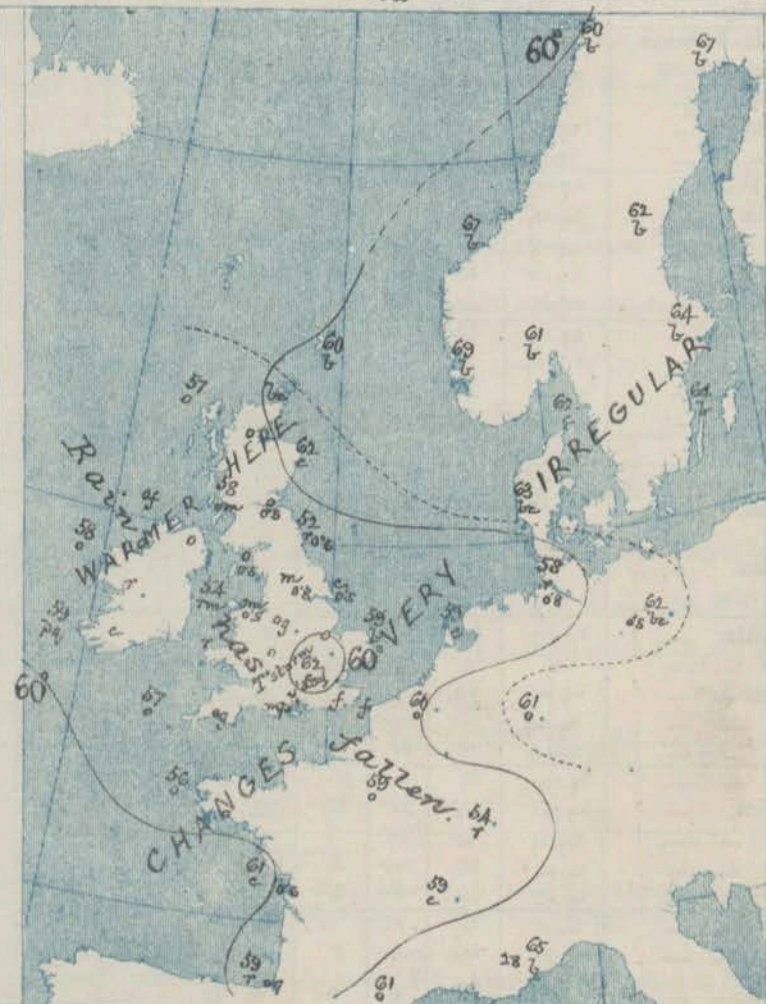
MEANS OF TEMPERATURE IN SHADE.

AND RAINFALL.

for the month of July.

STATIONS	TEMPERATURE.				RAINFALL. (Inches)
	Daily Max.	Daily Min.	at 8 a.m.		
			Dry	Wet	
Sumburgh Head	57.8	48.8	53.6	52.0	2.09
Stornoway	60.2	49.5	56.0	54.0	3.02
Wick	62.2	49.2	56.1	53.8	2.25
Nairn	64.7	51.4	57.2	53.6	2.57
Aberdeen	64.4	51.1	58.0	54.4	2.74
Leith	67.1	51.7	58.6	55.3	2.84
Shields	64.4	52.9	58.6	55.4	2.63
York	68.5	52.1	59.4	56.2	2.57
Loughborough	72.1	53.0	62.0	58.2	2.34
Ardrossan	63.9	53.2	57.5	54.8	2.91
Donaghadee	63.1	51.6	57.4	55.6	2.67
Holyhead	63.9	54.7	58.2	55.9	2.32
Liverpool	66.1	54.4	59.6	55.9	2.99
Parsonstown	66.4	51.9	58.3	54.8	3.01
Valencia	64.1	53.6	58.7	56.3	3.91
Roche's Point	66.7	53.3	58.7	55.8	3.16
Pembroke	62.9	55.0	58.1	55.9	2.31
Scilly	64.5	56.3	60.1	58.0	2.29
Jersey	68.8	56.3	62.2	59.2	2.21
Hurst Castle	67.9	55.7	61.3	58.8	2.15
Dover	67.2	56.9	62.6	58.8	1.82
LONDON	73.0	54.1	62.3	58.1	2.17
Oxford	69.9	53.7	60.2	56.8	2.51
Cambridge	72.3	52.4	61.4	57.9	2.30
Yarmouth	66.8	55.2	61.2	58.1	2.68

NOTE — The Temperature means are for the 15 years 1871—85, the Rainfall means are mainly those for the 20 years 1866—85



GENERAL SITUATION AT 8 A.M.

PRESSURE	Highest 30.13 ins. at Lisbon; 29.91 ins. at Helsingfors. Lowest 29.44 ins. and less in a small depression lying over north Germany; 29.5 ins. and less in another lying over our midland and southeastern counties. Gradients slight and irregular. Barometer falling a little in Sweden and also in Portugal, but rising elsewhere.
TEMPERATURE	Highest 69° at Skudesnæs, 67° at Haparanda and Christiansund, 65° at Nice, and 64° at Stockholm, Wistby and Lisbon. Lowest 52° at Shields, 53° at Malin Head, Donaghadee and Liverpool, and 54° at Leith, Spurn Head and Holyhead.
WIND	Light to fresh from the NE ^w over the south of Scandinavia and the north of our Islands. Fresh or strong from the NW ^w over our extreme southwest coasts and the Bay of Biscay. Variable in the southeast of England; light SW ^w over Belgium and the east of France. Fine in Scandinavia, Denmark and the east of Scotland.
WEATHER	Cloudy or overcast elsewhere with rain at several of the English stations, as well as at Cuxhaven, Belfort and Biarritz. Rain fell yesterday at all but the Scandinavian and Danish stations, and thunderstorms occurred in the south of England.
SEA	Rather rough at the mouth of the Channel and also at Holyhead, but moderate to smooth elsewhere.

PROBABLE CHANGES IN SYSTEM NOW PREVALENT

There are at present no indications of any important change in the weather. Conditions remain favourable for the development of shallow depressions over England and changeable weather, with local thunderstorms, will probably continue.

FORECASTS

for the 24 hours ending at NOON on 19th JULY 1888.

DISTRICTS.	FORECASTS.	DISTRICTS.	FORECASTS.
0 SCOTLAND NORTH	NE ³ winds, light or moderate; fair generally.	6 SCOTLAND WEST	Same as N° 2.
1 SCOTLAND EAST	NE ² winds, moderate; fair to dull & some rain.	7 ENGLAND N.W.	
2 ENGLAND N.E.	NE ² winds, moderate; changeable, some rain.	8 ENGLAND S.W.	NE ² winds, fresh, to NE ⁴ light; unsettled, some rain.
3 ENGLAND EAST	Light and somewhat variable breezes; changeable, some rain, thunderstorms locally.	9 IRELAND NORTH	NE ⁴ and N ³ winds, moderate or fresh; cloudy, some rain.
4 MIDLAND COUNTIES		10 IRELAND SOUTH	
5 ENGLAND SOUTH			
		WARNINGS	NONE ISSUED.

Note.—The South Cone, point downwards (▼) means that gales, or strong winds, are probable, at first from the Southward (from S.E. round by S. to N.W.) Should it appear likely that a gale beginning from between W. and N.W. is likely to veer towards N. or N.E., the North Cone is hoisted in preference to the South Cone.

The North Cone, point upwards (▲) means that gales, or strong winds, are probable, at first from the Northward (from N.W. round by N. to S.E.) Should it appear likely that a gale beginning from between E. and S.E. is likely to veer towards S. or S.W., the South Cone is hoisted in preference to the North Cone.

YESTERDAY'S 2 P.M. REPORTS.

	Bar.	Dry.	Wet.	Wind.	Wes.	Sea.		Bar.	Dry.	Wet.	Wind.	Wes.	Sea.
Skudesnes ...	29.71	79	63	SSW 1	c	3	Holyhead ...	29.50	57	55	N 3	b	2
Samburgh Head ...	29.76	60	56	NE 3	b	3	Valencia ...	29.67	62	59	NTW 3	cm	3
Stornoway ...	29.64	54	54	NE 3	r	3	Scilly ...	29.56	57	55	NTW 4	o	4
Aberdeen ...	29.66	55	53	ENE 2	c	4	Jersey ...	29.48	62	59	NTW 3	o	3
Shields ...	29.49	53	52	NNE 2	r	2	Dungeness ...	29.44	65	60	SSE 3	bc	1
Ardrossan ...	29.52	60	57	NE 4	o	2	London ...	29.45	66	60	L 0	og	*
Malin Head ...	29.58	55	53	N 3	o	3	Yarmouth ...	29.45	59	58	NNE 2	c	2
Mullaghmore ...	29.60	57	54	NNW 4	o	3	Rochefort ...	29.61	64	61	W 8	c	4
Belmullet ...	29.66	60	54	NNW 2	bc	*							

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

The reports for yesterday morning showed that pressure was highest, 30.0 ins. and upwards, over Finland, and also in Portugal, and relatively high, 29.9 ins. and upwards, over the Black Sea. The lowest readings, 29.4 ins. and less, were reported in a small depression lying over Normandy, but a large trough of low pressure, 29.5 ins. and less, existed over the whole of England, the Netherlands, the north of France and the greater part of Germany. The wind was light or moderate from the End or NEnd over all the more northern parts of Europe, and N^{or} NW^{ly} in the west and southwest of our Islands, but in France, Spain and Italy it was W^{ly} or SW^{ly} while in Austria it drew into S or SE. The weather was fine in Scandinavia and Russia as well as in Algeria and the extreme south of the British Islands, but cloudy elsewhere with rain over Austria, Germany, the Netherlands, the east of Scotland and the southwest of France. Temperature had risen at many of the Russian and Austrian stations but changed irregularly elsewhere; readings ranged from 75° and upwards over Algeria, the south of Italy and some parts of Spain to 55° or less over the White Sea and the northern parts of the British Islands. The highest individual readings were 84° at Barcelona, 83° at Cagliari, 82° at Malta and Biskra, 81° at Brindisi, and 78° at Palermo and Algiers; the lowest were 50° at Archangel, 52° at Shields, Aberdeen and Malin Head, and 53° at Stornoway, Wick, Nairn, Leith and Donaghadee.

In the course of the day the trough of low pressure over and to the eastward of our Islands moved slowly in an easterly direction, but no important change occurred in the winds or weather. Rain fell at all but the most northern stations and thunder was heard in the south of England. In London a thunderstorm occurred in the evening, and at Camden Town 0.43 ins. of rain was collected in the space of three quarters of an hour.

EXPLANATION OF COLUMNS GIVEN ON PAGE 1.

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

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

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

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

DAILY WEATHER REPORT.

for Thursday, 19th July

1888.

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

+ YESTERDAY EVENING.																	8 A.M. TO DAY.										PAST 24 HOURS.		
STATIONS.	Barometer at 32° F. and Sea Level.	Temp. in Shade.	WIND.		Weather.	BAROMETER.		SHADE TEMP.			WIND.		Weather.	Sea (0 to 2).	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.												
SCANDINAVIA.																													
Haparanda ..	29.76	60	2	0	bc	29.73	- 12	69	64	+ 2	NNE	2	b	*	73	50													
Hernösand ...	29.80	80	1	0	b	29.78	- 13	62	58	0	ENE	2	b	*	81	52													
Stockholm ...	29.72	62	1	2	bc	29.65	- 10	61	57	0	N	2	b	*	73	50													
Wishby ...	29.65	55	N	2	b	29.59	- 06	56	52	8	N	2	bc	*	72	52													
Bodö ...	29.85	59	NNE	2	b	29.80	- 08	58	52	- 2	N	0	b	1	62	48													
Christiansund...	29.78	68	NNE	1	b	29.84	+ 06	62	57	- 5	NE	2	b	1	77	57													
Skadesnaes ...	29.75	69	NNE	1	c	29.78	+ 01	69	62	0	N	0	b	2	79	7													
Christiania Fjord (Fjorder)	29.75	66	N	2	b	29.77	- 01	61	56	0	N	2	b	1	66	61													
Skagen (The Scaw)	29.67	63	ENE	2	b	29.69	+ 04	62	60	0	NE	2	b	2	72	59													
Fanö ...	29.62	49	NNE	2	c	29.62	+ 08	61	58	- 2	NNE	1	c	*	68	53	0.04												
Sumburgh Head	29.82	59	WNW	1	bc	29.83	+ 05	54	53	- 6	N	0	b	1	67	49													
Stornoway ..	29.82	57	E	3	c	29.85	+ 07	54	53	- 3	S	2	b	2	68	45													
Wick ...	29.85	63	E	1	c	29.86	+ 09	63	60	0	N	0	b	1	65	48													
Nairn ...	29.82	61	NE	2	b	29.87	+ 09	55	54	- 3	W	1	bc	1	68	49													
Aberdeen...	29.85	61	ENE	1	b	29.89	+ 15	63	59	+ 1	WNW	1	bc	1	66	49													
Loith ...	29.82	55	E	2	b	29.89	+ 20	60	57	+ 6	NW	1	b	*	61	51													
Shields ...	29.76	55	WNW	3	c	29.84	+ 24	58	54	+ 6	N	2	b	2	57	51	0.09												
Spurn Head ...	29.68	54	N	4	c	29.60	+ 28	57	55	+ 3	N	4	bc	3	57	52													
York ...	29.70	62	NE	2	bc	29.84	+ 29	59	56	+ 4	WNW	2	b	*	65	52													
Loughborough	29.66	63	NE	3	c	29.84	+ 34	59	56	+ 3	WNW	3	bc	*	64	55													
Ardrossan ...	29.77	69	NE	2	b	29.87	+ 18	68	58	+ 5	NE	2	bc	1	70	52													
Malin Head ...	29.82	58	WNW	1	c	29.88	+ 14	53	53	0	ENE	1	of	1	58	52	0.01												
Mullaghmore ...	29.86	60	WNW	4	cm	29.87	+ 12	57	55	+ 1	ENE	2	cm	2	62	54													
Belmullet ...	29.89	59	N	3	c	29.86	+ 07	57	54	- 1	S	3	0	*	61	53													
Donaghadee ...	29.79	58	NE	4	c	29.89	+ 24	55	54	+ 2	NNE	4	bc	2	59	51	0.12												
Barrow-in-Furness	29.69	65	NE	3	bc	29.84	+ 29	59	57	+ 3	NNE	1	bc	*	65	53													
Liverpool (Bidston)	29.69	63	ENE	3	c	29.86	+ 35	60	56	+ 7	ENE	1	c	2	65	53													
Holyhead ...	29.71	57	NE	4	b	29.86	+ 32	58	56	+ 4	N	0	bc	0	58	53	0.01												
Parsonstown ...	29.81	62	NW	2	c	29.88	+ 22	58	56	+ 3	N	0	bc	*	67	53	0.03												
Valencia ...	29.92	59	NW	4	op	29.91	+ 10	58	56	- 1	SSE	2	bc	2	64	54													
Roche's Point...	29.79	62	NW	5	b	29.87	+ 20	60	56	+ 3	N	1	b	2	63	53													
Pembroke ...	29.70	55	WNW	5	c	29.84	+ 28	61	60	+ 7	SE	2	bc	2	61	53	0.15												
Scilly ...	29.73	58	WNW	6	c	29.89	+ 23	58	57	+ 1	NW	4	cm	5	58	54	0.13												
Prawle Point ...	29.65	56	WNW	3	c	29.86	+ 29	63	60	+ 7	WNW	1	bc	0	63	51	0.06												
Jersey ...	29.68	59	W	5	c	29.83	+ 24	59	58	+ 1	WNW	3	bc	3	61	54	0.02												
Hurst Castle ...	29.62	61	W	3	bc	29.82	+ 31	58	57	0	NNE	3	bc	1	66	55	0.01												
Dungeness ...	29.57	61	SW	4	c	29.74	+ 25	59	57	+ 3	NE	4	c	3	64	55													
London ...	29.61	61	WNW	1	ot	29.81	+ 31	59	57	- 3	N	1	0	*	71	56	0.36												
Oxford ...	29.67	60	NE	3	c	29.84	+ 35	57	55	- 1	WNW	2	0	*	67	55	0.42												
Cambridge ...	29.64	59	N	1	c	29.81	+ 31	59	57	- 1	N	1	0	*	70	53	0.25												
Yarmouth ...	29.62	58	NNE	3	c	29.74	+ 23	57	55	- 2	N	3	c	3	63	53													
Cuxhaven ...	29.52	56	E	4	r	29.61	+ 32	60	59	+ 1	NNE	3	r	*	62	56	0.50												
Berlin ...	29.51	62	N	0	bc	29.53	+ 06	62	59	0	N	0	0	*	66	57	0.28												
Wiesbaden ...	*	*	*	*	*	29.66	+ 09	60	58	- 1	SW	2	r	*	68	57	0.08												
Munich ...	29.73	66	SW	1	c	29.77		58	54	-	W	6	0	*	68	52	0.04												
THE NETHERLANDS.																													
The Helder ...	29.56	58	WNW	1	c	29.63	+ 13	57	56	- 2	NNE	5	r	3	61	57	0.32												
Brussels ...	*	*	*	*	*	29.68	+ 18	57	56	- 3	W	4	r	*	67	56	0.12												
Cape Gris Nez...	29.60	54	SW	4	c	29.75	+ 25	57	57	0	NNE	4	m	3	63	55	0.04												
Paris ...	29.65	61	W	3	c	29.82	+ 24	56	54	- 3	WNW	3	bc	*	71		0.04												
Brest ...	29.64	59	NW	4	f	29.94	+ 19	58	55	+ 2	N	5	0	5	70	46	0.16												
Lorient ...	29.81	58	WNW	8	c	29.86	+ 17	59	57	+ 2	NW	5	0	5	61	58													
Rocheport ...	29.88	63	WNW	7	c	29.93	+ 17	61	60	0	WNW	7	r	3	68	55	0.39												
Belfort ...	29.71	60	W	1	bc	29.82	+ 13	57	56	+ 3	W	1	0	*	64	52	0.04												
Lyons ...	29.78	58	W	3	r	29.90	+ 18	60	54	+ 1	SE	1	c	*	69	55	0.16												
Nice ...	29.66	71	SW	3	bc	29.73	+ 07	63	54	- 2	NE	1	b	1	75	57													
Perpignan ...	29.87	69	NW	5	b	29.99	+ 14	67	57	+ 6	NW	4	b	*	76	59													
Biarritz ...	29.98	64	WNW	7	c	30.04	+ 14	62	59	+ 3	W	8	r	*	66	57	0.55												
FRANCE & NETHERLANDS.																													
Corunna ...	*	*	*	*	*																								
Lisbon ...	30.16	63	WNW	7	c	30.17	+ 04	62	56	- 2	WNW	8	b	6	72	59													

WEATHER CHARTS

for 8 a.m. on

Thursday, 19th July.

1888.

BAROMETER, WIND & SEA.

(Explanation of Map)

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

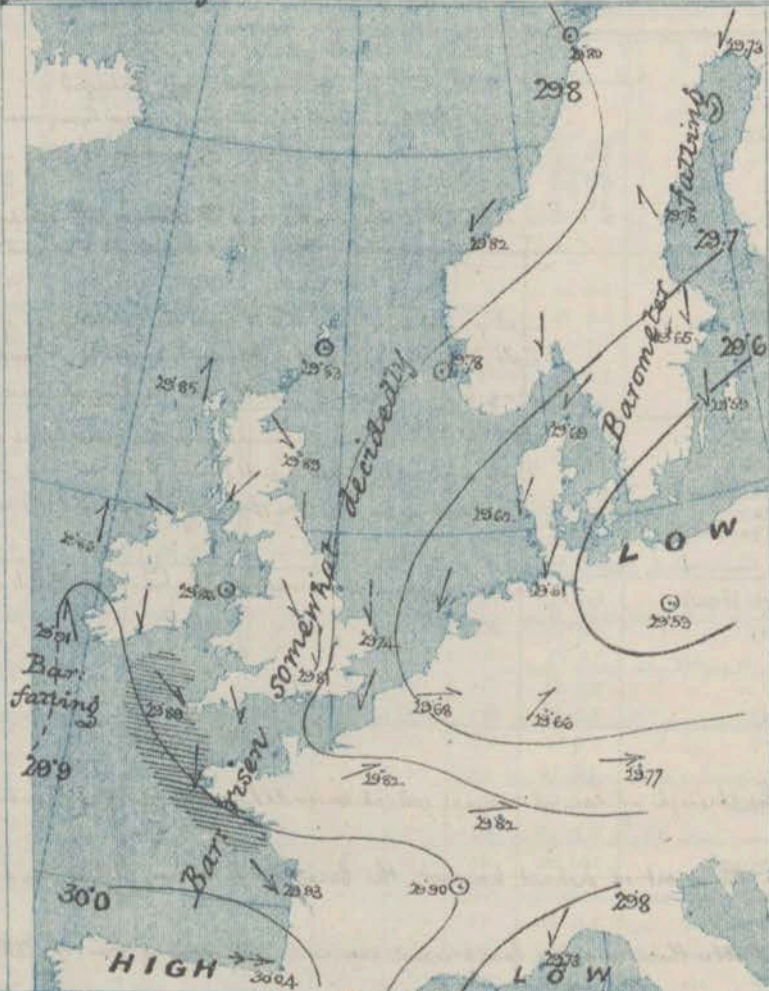
Sea Disturbance — where considerable, is shown thus.

— Rough. — High.

MEAN HEIGHT of the BAROMETER

at 8 a.m. for the month of July
 During the 15 Years 1871—1885.

STATIONS.	MEAN READINGS.
Sumburgh Head	29.794
Stornoway	29.797
Wick	29.810
Nairn	29.821
Aberdeen	29.831
Leith	29.850
Shields	29.876
York	29.910
Loughborough	29.936
Ardrossan	29.862
Donaghadee	29.881
Holyhead	29.918
Liverpool	29.913
Parsonstown	29.921
Valencia	29.939
Roche's Point	29.938
Pembroke	29.942
Scilly	29.984
Jersey	30.009
Hurst Castle	29.974
Dover	29.970
LONDON	29.967
Oxford	29.953
Cambridge	29.947
Yarmouth	29.943



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

Temperature — Isotherms are drawn for each 10° changes since previous morning are stated in words.

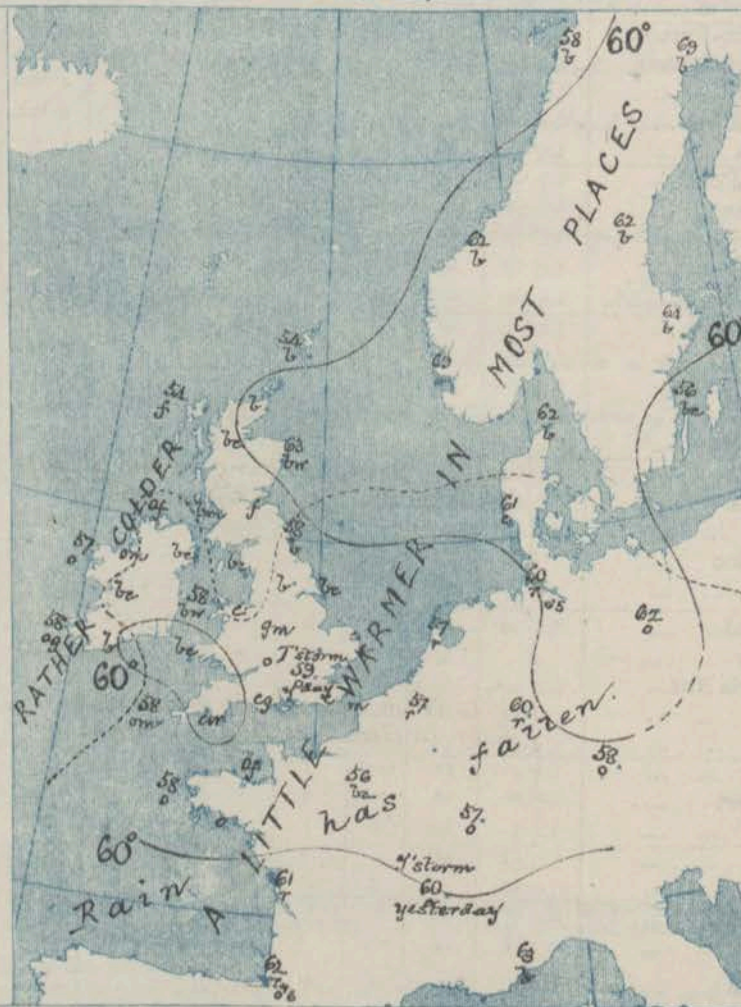
Weather — is shown by Letters of the Beaufort Scale.

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

MEANS OF TEMPERATURE IN SHADE, AND RAINFALL. for the month of July.

STATIONS.	TEMPERATURE.				RAINFALL. (Inches)
	Daily Max.	Daily Min.	at 8 a.m.		
			Dry.	Wet.	
Sumburgh Head	57.8	48.3	53.6	52.0	2.09
Stornoway	60.2	49.5	56.0	54.0	3.02
Wick	62.2	49.2	56.1	53.8	2.25
Nairn	64.7	51.4	57.2	53.6	2.57
Aberdeen	64.4	51.1	58.0	54.4	2.74
Leith	67.1	51.7	58.6	55.3	2.84
Shields	64.4	52.9	58.6	55.4	2.63
York	68.5	52.1	59.4	56.2	2.67
Loughborough	72.1	53.0	62.0	58.2	2.84
Ardrossan	63.9	53.2	57.5	54.8	2.91
Donaghadee	63.1	51.6	57.4	55.6	2.67
Holyhead	63.9	54.7	58.2	55.9	2.32
Liverpool	66.1	54.4	59.6	55.9	2.99
Parsonstown	66.4	51.9	58.3	54.8	3.01
Valencia	64.1	53.6	58.7	56.3	3.91
Roche's Point	66.7	53.3	58.7	55.8	3.16
Pembroke	62.9	55.0	58.1	55.9	2.31
Scilly	64.5	56.3	60.1	58.0	2.29
Jersey	68.8	56.3	62.2	59.2	2.21
Hurst Castle	67.9	55.7	61.3	58.8	2.15
Dover	67.2	56.9	62.6	58.8	1.82
LONDON	73.0	54.1	62.3	58.1	2.17
Oxford	69.9	53.7	60.2	56.8	2.51
Cambridge	72.3	52.4	61.4	57.9	2.30
Yarmouth	66.8	55.2	61.2	58.1	2.68

NOTE — The Temperature means are for the 15 years 1871—85, the Rainfall means are mainly those for the 20 years 1866—85



GENERAL SITUATION AT 8 A.M.

PRESSURE

Highest, 30.1 in. and upwards, over Portugal.

Lowest, 29.6 in. and less, in a large area lying over the Baltic and North Germany; 29.8 in. and less, in a depression lying over the Gulf of France.
Gradients slight and irregular. Barometer falling in Sweden and also in the west of Ireland, but rising elsewhere.

TEMPERATURE

Highest, 69° at Haparanda and Rudesdal, 67° at Lerpapun, 64° at Stockholm, and 63° at Nidd, Almden, Thaurhant and Kier.
Lowest, 53° at Malin Head, 54° at Lumbagh Head, and Lornavay, 55° at Kairn and Donaghadee, and 56° at Nibby and Paris.

WIND

Light or moderate from the N^o over the greater part of our Islands, the North Sea and Scandinavia.
Light from the S^o in the Hebrides and west of Ireland.
Strong to a gale from NW. or W. over the Bay of Biscay.

WEATHER

Fine in Scandinavia, Denmark, and the greater part of the United Kingdom, but dull in the west of Ireland, and foggy at some of our northern stations.
Rain over the Netherlands and Northern Germany, and dull at most of the French stations.
Rain fell yesterday over France, Germany, and the south of our Islands, and thunderstorms occurred in London and also at Lyons.

SEA

Rather rough at the mouth of the Channel, but slight or smooth elsewhere.

PROBABLE CHANGES IN SYSTEM NOW PREVALENT

The trough of low pressure which extended yesterday from Central Europe to our southeastern districts has apparently moved away to the E^{ast}.
In the west of Ireland, however, the barometer is again falling, and as the wind there has backed to the S^o with an increase of cloud it is probable that another low pressure system is advancing from the Atlantic. The improvement in the weather is therefore likely to prove merely temporary.

FORECASTS

For the 24 hours ending at NOON on 20th July 1888.

DISTRICTS.

FORECASTS.

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

Light winds, backing to the SE^{ward}; fine to dull and some rain.

N^o to W^o or SW^o winds, moderate; fair to dull and some rain.

DISTRICTS.

FORECASTS.

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

NE^o to SE^o winds, light or moderate; fine to dull and some rain.

NW^o to SW^o winds, freshening; fair to dull and some rain.

S^o to SE^o winds, freshening; unsettled, some rain.

WARNINGS

NONE ISSUED.

Note.—The South Cone, point downwards (V) means that gales, or strong winds, are probable, at first from the Southward (from S.E. round by S. to N.W.) Should it appear likely that a gale beginning from between W. and N.W. is likely to veer towards N. or N.E., the North Cone is hoisted in preference to the South Cone.
The North Cone, point upwards (A) means that gales, or strong winds, are probable, at first from the Northward (from N.W. round by N. to S.E.) Should it appear likely that a gale beginning from between E. and S.E. is likely to veer towards S. or S.W., the South Cone is hoisted in preference to the North Cone.

YESTERDAY'S 2 P.M. REPORTS.

	Bar.	Dry.	Wet.	Wind.	W. S.	Sea.		Bar.	Dry.	Wet.	Wind.	W. S.	Sea.
Skudesnaes ...	29.77	79	59	E. 1/2 E.	3	3	Holyhead ...	29.65	58	56	N. 1/2 E.	5	5
Sumburgh Head ...	29.83	66	59	E. 1/2 E.	1	1	Valencia ...	29.88	63	59	N. 1/2 W.	3	5
Stornoway ...	29.82	59	57	E. 1/2 E.	3	3	Scilly ...	29.72	57	56	N. 1/2 W.	6	5
Aberdeen ...	29.82	60	57	E. 1/2 E.	3	3	Jersey ...	29.66	60	58	W.	5	4
Shields ...	29.70	58	55	E. 1/2 E.	3	3	Dungeness ...	29.54	63	59	SW.	2	2
Ardrossan ...	29.74	60	61	E. 1/2 E.	3	2	London ...	29.56	62	60	E.	0	*
Malin Head ...	29.81	57	56	N. 1/2 W.	1	1	Yarmouth ...	29.57	59	57	E. 1/2 E.	3	2
Mullaghmore ...	29.81	60	58	N. 1/2 W.	4	2	Rochefort ...	29.82	66	62	N. 1/2 W.	7	3
Belmullet ...	29.86	60	55	N. 1/2 W.	2	*							

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

The reports for yesterday morning showed that pressure was highest, 30.1 ins. and upwards, over the southwest of the Iberian Peninsula, and lowest, 29.5 ins. and less, in a large trough of low pressure extending from Bourdeaux to the southeast of England. The wind was therefore, NE² over the whole of northern and northwestern Europe, but NW² over Spain, the southwest of our Islands and the west and south of France and W² or SW² over the southern parts of Germany and Austria; in the Bay of Biscay it blew with the force of a slight gale. The weather was fine in Scandinavia, Denmark and the east of Scotland, as well as in many parts of southern Europe, but cloudy or misty elsewhere, with rain at many of the English, German and French stations. Temperature had risen a little in the north of our Islands and fallen in Italy, but elsewhere the changes were very irregular; readings ranged from 75° and upwards at the Algerian and Mediterranean stations to 55° or less over the more central parts of the British Islands. The highest individual ^{readings} were 80° at Biskra, 87° at Cagliari, 86° at Constantinople, 79° at Brindisi and La Calle, and 78° at Palermo, Malta and Oran; the lowest were 52° at Shields, 53° at Malin Head, Donaghadee and Loughfoyle, and 54° at Louth, Limerick and Holyhead.

In the course of the day the barometer rose in all parts of Western Europe, and the trough of low pressure moved gradually eastward. Some improvement in the weather took place over our Islands, but in London a thunderstorm with heavy rain was experienced during the afternoon.

Remarks for 24 hours ending at 8 a.m. on July 17th.

The reports for Monday morning showed that areas of high pressure, 29.9 ins. and upwards, were lying respectively over Lapland, southeastern Europe and the southern part of the Iberian Peninsula. The lowest readings, 29.5 ins. and less, were reported in an irregularly formed area or trough lying over the southern parts of Ireland and England, but another large area of low pressure, 29.7 ins. and less, was situated over Central Russia. The wind was NE² over the greater part of Northern Europe, E² or SE² in the north and east of our Islands, but over France and Spain it varied between SW and NW, while over Central and Southern Europe it was variable. The weather was fair in Scandinavia, Russia, Denmark, and southern Europe generally, but dull elsewhere, with rain in many parts of the United Kingdom and France. Temperature had changed very irregularly, and readings ranged from 75° and upwards at the Algerian and Mediterranean stations to 55° over the northern parts of the United Kingdom and the extreme north of Russia. The highest individual readings were 91° at Biskra, 86° at Aumale, 85° at Cagliari, 80° at Malta, 78° at Algiers, and 77° at Brindisi and Palermo; the lowest were 48° at Archangel, 49° at Sumburgh, 54°, 50° at Aberdeen, Louth and Shields, and 51° at Limerick.

In the course of the day the low pressure system over the southern parts of our Islands moved slowly eastwards. Unsettled weather continued to prevail over the greater part of the United Kingdom and heavy rain fell at many of the French and German stations.

EXPLANATION OF COLUMNS GIVEN ON PAGE 1.

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

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

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

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

DAILY WEATHER REPORT.

for Friday, 20th July 1888.

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

STATIONS.	+ YESTERDAY EVENING.					8 A.M. TO DAY.										PAST 24 HOURS.		
	Barometer at 32° F. and Sea Level.	Temp. in Shade.	WIND.		Weather.	BAROMETER.		SHADE TEMP.			WIND.		Weather.	Sea. (0 to 5.)	SHADE TEMP.		Rainfall.	
			Dir.	Force. (0 to 12.)		Reading at 32° F. and Sea Level.	Difference from 8 a.m. yesterday.	Dry.	Wet.	Difference from 8 a.m. yesterday.	Dir.	Force. (0 to 12.)			Max.	Min.		
SCANDINAVIA.																		
Haparanda ..	29.64	64	z	0	b	29.68	- .05	64	61	- 5	S	2	b	*	77	52	.	
Hernösand ...	29.67	62	z	0	b	29.62	- .16	67	58	+ 5	SEA	2	b	*	82	48	.	
Stockholm ...	29.60	64	z	0	b	29.58	- .07	66	59	+ 2	N	2	b	*	75	55	.	
Wisby ...	29.61	57	ENE	2	b	29.58	- .01	58	54	0	N	4	b	*	70	48	.	
Bodö ...	29.81	57	WNW	2	b	29.80	- .00	57	52	- 1	N	4	b	*	59	50	.	
Christiansund...	29.83	56	NNE	4	b	29.85	+ .01	53	49	- 4	NE	4	b	3	64	50	.	
Skudesnaes ...	29.75	59	NW	7	b	29.75	- .03	55	54	- 1	WNW	5	b	3	70	?	.	
Christiania Fjord	29.67	68	W	2	b	29.65	- .12	67	59	+ 6	WNW	2	b	1	72	?	.	
(Furder)																		
Skagen (The Scaw)	29.66	62	N	2	b	29.65	- .04	66	60	+ 4	WNW	3	b	2	70	59	.	
Fanö ...	29.71	59	WNW	4	b	29.72	+ .10	65	61	+ 4	W	2	b	*	72	52	.	
BRITISH ISLANDS.																		
Sumburgh Head	29.63	51	NW	1	m	29.84	+ .01	48	48	- 6	z	0	m	1	56	44	.	
Stornoway ...	29.83	63	NE	3	b	29.78	- .07	64	60	+ 10	E	1	b	2	68	49	.	
Wick ...	29.85	68	SE	1	b	29.84	- .02	54	52	- 9	SE	3	b	1	75	47	.	
Nairn ...	29.82	70	ENE	2	b	29.82	- .05	63	60	+ 8	z	0	b	0	73	48	.	
Aberdeen...	29.88	63	SE	2	b	29.85	- .04	67	60	+ 4	NE	1	b	1	71	49	.	
Leith ...	29.85	65	NW	2	b	29.84	- .05	64	58	+ 4	E	1	b	*	70	50	.	
Shields ...	29.88	61	N	1	b	29.85	+ .01	57	54	- 1	E	1	m	2	64	48	.	
Spurn Head ...	29.88	59	N	3	b	29.89	+ .09	58	56	+ 1	ENE	2	b	2	63	52	.	
York ...	29.86	69	NE	2	b	29.88	+ .04	59	56	0	ENE	1	b	*	74	47	.	
Loughborough	29.87	65	W	1	r	29.88	+ .04	60	58	+ 1	SE	1	over	*	76	52	0.01	
Ardrossan ...	29.84	64	NW	1	b	29.82	- .05	60	57	- 3	z	0	om	0	70	53	.	
Malin Head ...	29.77	65	S	3	om	29.78	- .10	54	54	+ 1	WNW	2	0	3	65	53	0.09	
Mullaghmore ...	29.78	62	S	4	or	29.81	- .06	58	56	+ 1	NW	4	c	3	67	54	0.13	
Belmullet ...	29.74	59	S	5	0	29.82	- .04	58	55	+ 1	WNW	2	c	*	59	51	0.20	
Donaghadee ...	29.86	58	SSW	3	b	29.83	- .06	54	52	- 1	SSW	3	0	1	63	52	0.10	
Barrow-in-Furness	29.84	66	W	2	b	29.94	+ .10	58	55	- 1	NE	1	0	*	67	56	.	
Liverpool (Biston)	29.87	61	NW	1	c	29.85	- .01	60	58	0	SSW	1	0	1	66	55	.	
Holyhead ...	29.87	62	z	0	cm	29.82	- .04	57	57	- 1	SSW	3	rm	2	65	54	0.20	
Parsonstown ...	29.81	63	SSW	1	0	29.84	- .04	57	54	- 1	z	0	b	*	71	54	0.12	
Valencia ...	29.80	61	SW	4	om	29.88	- .03	59	56	+ 1	WNW	2	b	2	61	52	0.31	
Roche's Point...	29.85	57	SW	4	rm	29.87	- .00	60	57	0	WNW	3	b	3	64	55	0.20	
Pembroke ...	29.89	56	NW	2	c	29.83	- .01	57	57	- 4	S	2	b	2	65	54	0.39	
Seilly ...	29.92	59	SW	2	0	29.89	- .00	59	58	+ 1	WNW	2	b	4	61	55	0.07	
Prawle Point ...	29.91	61	W	3	0	29.91	+ .05	57	57	- 6	SW	1	b	1	64	53	0.30	
Jersey ...	29.95	62	WNW	3	c	29.96	+ .13	59	58	0	SSW	3	or	3	65	56	0.22	
Hurst Castle ...	29.90	63	W	4	c	29.93	+ .11	58	57	0	SW	2	oam	1	64	57	0.05	
Dungeness ...	29.86	60	WNW	1	c	29.93	+ .19	56	55	- 3	WSW	3	b	2	65	51	.	
London ...	29.88	65	SE	1	cp	29.92	+ .11	61	59	+ 2	SSW	1	0	*	70	57	0.04	
Oxford ...	29.89	63	WNW	1	r	29.90	+ .06	59	58	+ 2	SSW	1	r	*	72	55	0.06	
Cambridge ...	29.86	68	z	0	b	29.90	+ .09	64	60	+ 5	z	0	c	*	72	47	.	
Yarmouth ...	29.83	65	WNW	3	b	29.89	+ .15	59	57	+ 2	z	0	b	2	66	48	.	
Cuxhaven ...	29.71	61	NNE	3	b	29.81	+ .20	63	61	+ 3	z	3	b	*	64	59	0.06	
Berlin ...	29.61	61	z	0	r	29.65	+ .12	63	60	+ 1	WNW	1	b	*	70	57	0.35	
Wiesbaden ...	*	*	*	*	*	29.88	+ .22	60	58	0	NW	4	0	*	68	59	0.24	
Munich ...	29.87	53	W	4	r	29.91	+ .14	53	52	- 5	W	5	r	*	63	?	0.32	
FRANCE & NETHERLANDS.																		
The Helder ...	29.78	58	N	3	b	29.86	+ .23	59	57	+ 2	NW	1	b	1	64	57	.	
Brussels ...	*	*	*	*	*	29.96	+ .28	58	56	+ 1	WSW	1	b	*	62	53	0.43	
Cape Gris Nez...	29.85	60	W	3	c	29.93	+ .18	55	55	- 2	SW	4	b	2	66	54	.	
Paris ...	29.93	64	NW	3	c	30.02	+ .20	58	56	+ 2	SW	1	b	*	67	54	0.04	
Brest ...	30.06	59	W	4	0	30.02	+ .08	55	53	- 3	SW	4	m	4	70	48	0.04	
Lorient ...	30.00	59	WNW	5	0	30.01	+ .15	60	60	+ 1	WNW	4	0	2	61	55	0.04	
Rochefort ...	30.07	64	WNW	7	m	30.11	+ .18	62	60	+ 1	SW	5	r	1	66	54	0.08	
Belfort ...	29.89	60	W	1	0	30.04	+ .22	59	57	+ 2	NW	1	c	*	64	52	0.43	
Lyon ...	29.95	61	N	1	e	30.06	+ .16	57	56	- 3	W	1	r	*	70	56	0.12	
Nice ...	29.76	69	SW	3	c	29.84	+ .16	62	60	- 1	E	1	b	1	75	54	.	
Perpignan ...	30.02	69	W	5	b	30.12	+ .13	66	57	- 1	NW	4	b	*	77	60	.	
Biarritz ...	30.18	63	NW	7	c	30.15	+ .11	64	59	+ 2	SSW	4	b	3	66	57	0.08	
PORTUGAL.																		
Corunna ...	*	*	*	*	*													
Lisbon ...	30.12	65	WNW	7	b	30.13	- .04	64	59	+ 2	N	5	b	2	73	59	.	

WEATHER CHARTS

for 8 a.m. on

Friday, 20th July.

1888.

BAROMETER, WIND & SEA.

(Explanation of Map)

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

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

→ = forces above 10; →→ = forces 8 to 10;
→→ = forces 5 to 7; → = forces 1 to 4;

○ = dead calm.

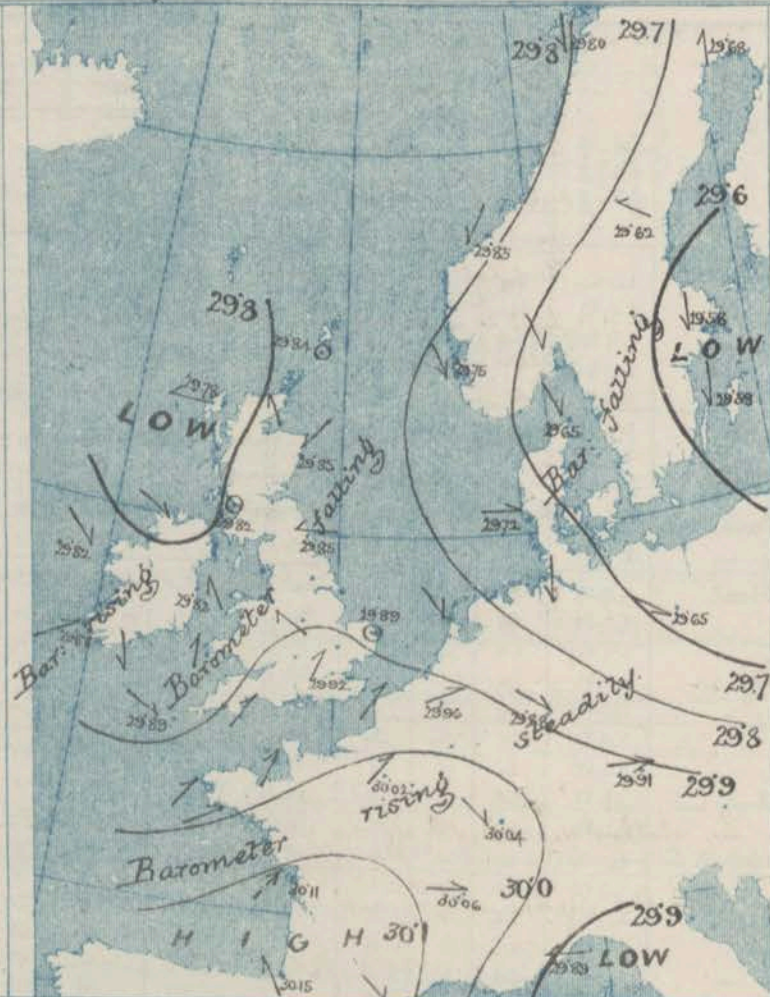
Sea Disturbance — where considerable, is shown thus.

■ = Rough. ■ = High.

MEAN HEIGHT of the BAROMETER

at 8 a.m. for the month of July
During the 15 Years 1871—1885.

STATIONS.	MEAN READINGS.
Sumburgh Head	29.794
Stornoway	29.797
Wick	29.810
Nairn	29.821
Aberdeen	29.831
Leith	29.850
Shields	29.876
York	29.910
Loughborough	29.936
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Pembroke	29.942
Scilly	29.984
Jersey	30.009
Hurst Castle	29.974
Dover	29.970
LONDON	29.967
Oxford	29.953
Cambridge	29.947
Yarmouth	29.943



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

Temperature — Isotherms are drawn for each 10° changes since previous morning are stated in words.

Weather — is shown by Letters of the Beaufort Scale.

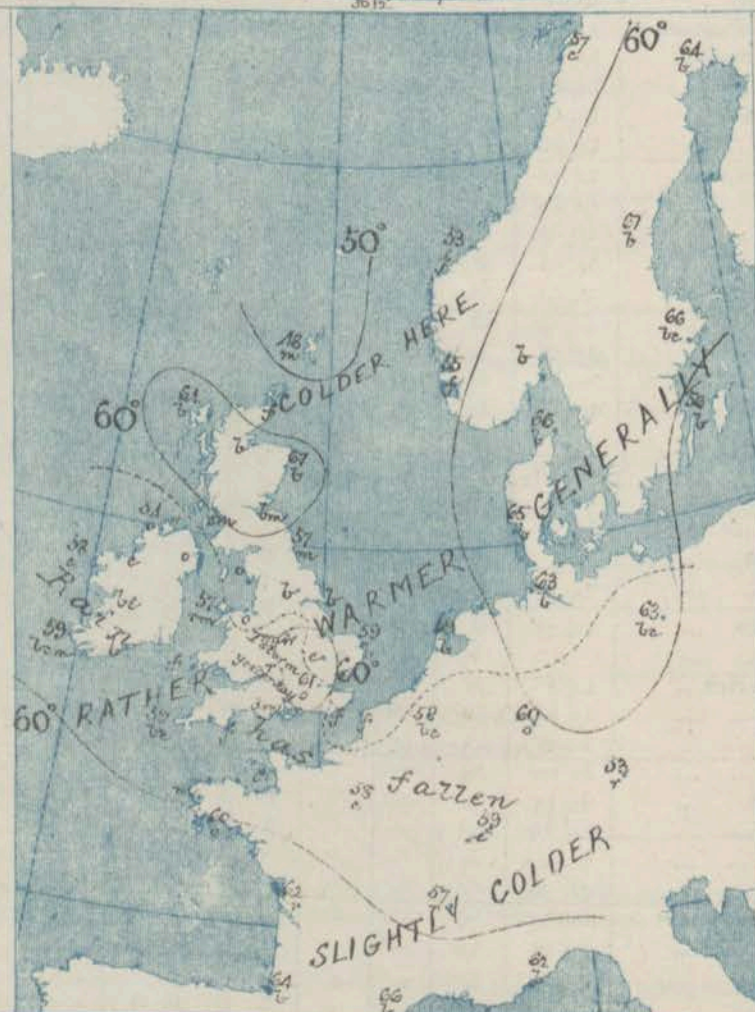
Rainfall — A dotted line separates the districts in which rain has fallen from those where there has been none. Falls of 0.5 in. or more, are quoted in figures.

MEANS OF TEMPERATURE IN SHADE.

AND RAINFALL.
for the month of July.

STATIONS.	TEMPERATURE.				RAINFALL. (Inches)
	Daily Max.	Daily Min.	at 8 a.m.		
			Dry	Wet.	
Sumburgh Head	57.8	48.3	53.6	52.0	2.09
Stornoway	60.2	49.5	56.0	54.0	3.02
Wick	62.2	49.2	56.1	53.8	2.25
Nairn	64.7	51.4	57.2	53.6	2.57
Aberdeen	64.4	51.1	58.0	54.4	2.74
Leith	67.1	51.7	58.6	55.3	2.84
Shields	64.4	52.9	58.6	55.4	2.63
York	68.5	52.1	59.4	56.2	2.57
Loughborough	72.1	53.0	62.0	58.2	2.34
Ardrossan	63.9	53.2	57.5	54.8	2.91
Donaghadee	63.1	51.6	57.4	55.6	2.67
Holyhead	63.9	54.7	58.2	55.9	2.32
Liverpool	66.1	54.4	59.6	55.9	2.99
Parsonstown	66.4	51.9	58.3	54.8	3.01
Valencia	64.1	53.6	58.7	56.3	3.91
Roche's Point.	66.7	53.3	58.7	55.8	3.16
Pembroke	62.9	55.0	58.1	55.9	2.31
Scilly	64.5	56.3	60.1	58.0	2.29
Jersey	68.8	56.3	62.2	59.2	2.21
Hurst Castle	67.9	55.7	61.3	58.8	2.15
Dover	67.2	56.9	62.6	58.8	1.82
LONDON	73.0	54.1	62.3	58.1	2.17
Oxford	69.9	53.7	60.2	56.8	2.51
Cambridge	72.3	52.4	61.4	57.9	2.30
Yarmouth	66.8	55.2	61.2	58.1	2.68

NOTE — The Temperature means are for the 15 years 1871—85, the Rainfall means are mainly those for the 10 years 1866—85



GENERAL SITUATION AT 8 A.M.

PRESSURE

Highest, 30.1 in: and upwards, over the Iberian Peninsula and the southwest of France.
Lowest, 29.6 in: and less, over the Baltic; 29.8 in: and less, in a shallow depression lying off the west of Scotland.
Gradient slight generally. Barometer falling in Scandinavia and the north of our Islands, but rising elsewhere.

TEMPERATURE

Highest, 67° at Helsingfors, Fardet and Aberdeen, 66° at Stockholm, Skagen and the Pyrenees, 65° at Tene, and 64° at Haparanda, Leth, Biarritz and Lisbon.
Lowest, 46° at Lumburgh H., 53° at Christiansund, 54° at Kirk, Malin Head, and Donaghadee, and 55° at Skudesnæs, Cape Gris Nez, and Brest.
The highest maxima registered yesterday were 76° at Loughborough, 75° at Kirk, and 74° at York.

WIND

Light E in the north and east of our islands; moderate NW in most of the Irish stations.
Light or moderate from SW over the south of England and the greater part of France.
W in Germany, NW or N over Scandinavia and Denmark.

WEATHER

Dull and unsettled in France, south Germany, the west and south of England and the north of Ireland, with rain in many places.
Foggy in the English Channel and also off the west of Norway; fine in most other localities.
Thunderstorms occurred yesterday at Loughborough, and in some of the southern districts of London.

SEA

Moderate at Lally, but slight or smooth elsewhere.

PROBABLE CHANGES IN SYSTEM NOW PREVALENT

The shallow depression off the west of Scotland is likely to move slowly eastwards, and as the wind at Valencia remains SW the weather will, ^{probably} remain unsettled in most districts.

FORECASTS

For the 24 hours ending at NOON on 21st JULY 1888.

DISTRICTS.

FORECASTS.

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

Light and somewhat variable breezes; unsettled, some rain.

SW winds, light or moderate; changeable, some rain, thunder locally.

DISTRICTS.

FORECASTS.

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

Same as Nos 0 to 2

Same as Nos 3 to 5

W to S winds, moderate, changeable, some showers.

SW and S winds moderate, or fresh, unsettled, some rain.

WARNINGS

NONE ISSUED.

Note.—The **South Cone**, point downwards (∇) means that gales, or strong winds, are probable, at first from the Southward (from S.E. round by S. to N.W.) Should it appear likely that a gale beginning from between W. and N.W. is likely to veer towards N. or N.E., the **North Cone** is hoisted in preference to the South Cone.
The **North Cone**, point upwards (∆) means that gales, or strong winds, are probable, at first from the Northward (from N.W. round by N. to S.E.) Should it appear likely that a gale beginning from between E. and S.E. is likely to veer towards S. or S.W., the **South Cone** is hoisted in preference to the North Cone.

YESTERDAY'S 2 P.M. REPORTS.

	Bar.	Dry.	Wet.	Wind.	Wea.	Sea.		Bar.	Dry.	Wet.	Wind.	Wea.	Sea.
Skudesnaes ...	29.75	70	60	W 6	b	3	Holyhead ...	29.87	63	60	NNE 1	b	1
Sumburgh Head ...	29.83	54	53	W 2	m	2	Valencia ...	29.84	53	57	SE 5	m	5
Stornoway ...	29.83	68	61	S 3	b	3	Scilly ...	29.93	60	57	W 3	c	5
Aberdeen ...	29.88	65	60	ESE 1	b	1	Jersey ...	29.91	64	60	W 2	c	2
Shields ...	29.87	63	56	NNE 2	b	2	Dungeness ...	29.82	63	60	ESE 1	c	2
Ardrossan ...	29.84	69	62	SW 1	c	1	London ...	29.85	66	60	WNW 2	c	*
Malin Head ...	29.82	59	56	ESE 3	c	2	Yarmouth ...	29.80	66	59	WNW 5	bc	4
Mullaghmore ...	29.81	65	60	SE 4	OTN	2	Rochefort ...	30.02	65	62	W 5	c	2
Belmullet ...	29.80	67	55	SE 3	c	*							

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

The reports for yesterday morning, showed that pressure was highest, 30.1 in. and upwards, over Portugal, and lowest, 29.5 in. and less, in a large trough of low pressure lying over Prussia and Western Russia. With these conditions the wind was E³ over northern Europe, N⁴ over the North Sea, the Netherlands and the east of our Islands, and NW⁴ over Spain, the west and south of France, and the south of our Islands, but over Austria, Italy, and South Germany it was chiefly W⁴, while in the west of Ireland it had backed to the S⁴. In force it was light or moderate generally, but over Spain and the southern part of the Bay of Biscay the NW⁴ wind blew with the force of a moderate to fresh gale. The weather was rainy over Central Europe, dull in France and the extreme west of our Islands, and foggy at some of the Scotch stations, but fine in most other localities. Temperature had risen a little over Great Britain, Spain and the west of France, but fallen elsewhere; readings ranged from 75° and upwards over Algeria, the southern parts of Italy, and the neighbourhood of the Black Sea to 55° or less in the extreme north and northwest of our Islands. The highest individual readings were 86° at Cagliari, 85° at Trieste, 81° at Brindisi, 79° at La Galle, 78° at Malta, 77° at Palermo and 76° at Odessa; the lowest were 53° at Malin Head, 54° at Sumburgh Head and Stornoway, 55° at Kairi, Donaghadee, and Charleston, and 56° at Misk, Paris, Havre, Lathagen and Leshant.

In the course of the day a new but shallow depression advanced to our extreme western coast and occasioned fresh S⁴ winds and rain in Ireland. Over the greater part of England the weather remained fine but a thunderstorm was experienced at Loughborough and also in the south of London.

EXPLANATION OF COLUMNS GIVEN ON PAGE 1.

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

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

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

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

DAILY WEATHER REPORT.

for Saturday, 21st July 1888.
Issued by the Meteorological Office, 116, Victoria Street, London. R. H. SCOTT, Secretary.

Issued by the Meteorological Office, 116, Victoria Street, London. R. H. SCOTT, Secretary.																		
STATIONS.	+ YESTERDAY EVENING.					8 A.M. TO DAY.										PAST 24 HOURS.		
	Barometer at 32° F. and Sea Level.	Temp. in Shade.	WIND.		Weather.	BAROMETER.		SHADE TEMP.			WIND.		Weather.	Sea. (0 to 2.)	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.	
SCANDINAVIA.																		
Haparanda ...	29.67	61	NNE	2	0	29.66	- 0.2	54	53	- 10	E	4	1	*	73	54	0.04	
Hernösand ...	29.63	64	2	0	0	29.65	+ 0.3	62	54	- 5	W	2	0	*	64	50	-	
Stockholm ...	29.60	63	2	0	0	29.60	+ 0.2	71	60	+ 5	2	0	0	*	79	54	-	
Wisby ...	29.66	57	ESE	2	0	29.63	+ 0.5	60	57	+ 4	SSW	2	0	*	66	48	-	
Bodö ...	29.80	49	N	0	0	29.77	- 0.3	69	46	- 8	NE	4	0	*	7	45	-	
Christiansund ...	29.85	52	NNE	7	0	29.86	+ 0.1	51	46	- 2	NE	8	0	*	57	46	-	
Skudesnaes ...																		
Christiania Fjord (Fjorder)	29.58	67	S	3	0	29.59	- 0.6	61	54	- 6	WNW	4	0	*	70	59	-	
Skagen (The Scaw)	29.62	56	WNW	4	0	29.60	- 0.5	62	57	- 4	WNW	4	0	*	72	55	-	
Fanö ...	29.81	56	W	4	0	29.82	+ 0.10	61	57	- 4	W	4	0	*	66	52	-	
BRITISH ISLANDS.																		
Sumburgh Head	29.85	52	NE	1	0	29.83	- 0.1	52	48	+ 4	NE	3	0	*	54	48	-	
Stornoway ...						29.72	- 0.6	53	52	- 11	2	0	0	*	68	49	0.04	
Wick ...	29.83	54	SE	2	0	29.80	- 0.4	52	51	- 2	E	3	0	*	60	48	-	
Nairn ...	29.79	57	NE	1	0	29.76	- 0.6	58	53	- 10	2	0	0	*	66	51	-	
Aberdeen ...	29.81	65	S	1	0	29.79	- 0.6	51	51	- 16	ESE	2	0	*	71	49	-	
Leith ...	29.80	64	E	1	0	29.75	- 0.9	57	56	- 7	NE	1	0	*	68	54	0.24	
Shields ...	29.80	60	E	1	0	29.75	- 1.0	61	57	+ 4	WSW	3	0	*	66	54	-	
Spurn Head ...	29.86	58	SSW	3	0	29.82	- 0.7	59	57	+ 1	WNW	3	0	*	68	56	0.05	
York ...	29.84	64	ESE	1	0	29.81	- 0.7	60	57	+ 1	W	2	0	*	73	56	0.03	
Loughborough	29.85	64	SSW	1	0	29.85	- 0.3	59	55	- 1	WSW	3	0	*	66	54	0.06	
Ardronean ...	29.77	59	NW	1	0	29.76	- 0.6	55	54	- 5	S	1	0	*	62	52	0.04	
Malin Head ...	29.81	56	E	1	0	29.75	- 0.3	54	52	0	S	1	0	*	59	51	0.01	
Mullaghmore ...	29.80	61	WNW	2	0	29.72	- 0.9	59	56	+ 1	SSE	2	0	*	63	54	0.08	
Balmullet ...	29.80	61	2	3	0	29.71	- 1.1	58	54	0	SSW	2	0	*	64	54	0.05	
Donaghadee ...	29.80	55	SSW	2	0	29.76	- 0.7	54	53	0	S	2	0	*	57	50	0.08	
Barrow-in-Farness	29.79	61	SSW	2	0	29.80	- 1.4	56	55	- 2	S	3	0	*	66	54	0.14	
Liverpool (Bidston)	29.82	59	W	2	0	29.82	- 0.3	63	56	+ 3	SSW	1	0	*	69	54	0.07	
Holyhead ...	29.82	59	SSW	3	0	29.80	- 0.2	56	55	- 1	S	3	0	*	62	53	0.03	
Parsonstown ...	29.81	76	2	0	0	29.76	- 0.8	58	55	+ 1	2	0	0	*	66	53	0.07	
Valencia ...	29.82	58	SSE	4	0	29.74	- 1.4	59	57	0	S	3	0	*	63	51	0.14	
Roche's Point ...	29.87	61	WSW	4	0	29.79	- 0.8	57	55	- 3	SW	2	0	*	64	53	0.25	
Pembroke ...	29.87	58	W	2	0	29.80	- 0.3	56	56	- 1	S	3	0	*	60	54	0.11	
Scilly ...	29.92	61	WSW	2	0	29.85	- 0.4	62	60	+ 3	SSW	4	0	*	62	55	0.05	
Prawle Point ...	29.91	58	W	3	0	29.92	+ 0.1	56	56	- 1	SSW	4	0	*	63	51	0.01	
Jersey ...	29.94	61	SE	1	0	30.00	+ 0.4	58	56	- 1	WSW	3	0	*	63	55	0.30	
Harst Castle ...	29.90	59	SW	2	0	29.94	+ 0.1	59	58	+ 1	WSW	3	0	*	63	55	0.03	
Dungeness ...	29.89	59	WSW	4	0	29.90	- 0.3	59	50	+ 3	WSW	4	0	*	62	55	0.15	
London ...	29.91	61	S	3	0	29.91	- 0.1	60	57	- 1	SW	2	0	*	65	55	0.06	
Oxford ...	29.87	62	SW	1	0	29.90	- 0.0	57	55	- 2	SW	3	0	*	68	53	0.04	
Cambridge ...	29.88	63	SW	1	0	29.87	- 0.3	60	58	- 4	SW	1	0	*	68	53	0.03	
Yarmouth ...	29.90	63	WNW	1	0	29.86	- 0.3	61	59	+ 2	WSW	2	0	*	64	56	-	
Oxshaven ...	29.87	60	WNW	3	0	29.91	+ 1.0	63	60	0	WNW	3	0	*	64	55	-	
Berlin ...	29.80	67	W	3	0	29.88	+ 2.3	59	54	- 4	W	4	0	*	75	55	-	
Wiesbaden ...	*	*	*	*	*	30.02	+ 1.4	62	59	+ 2	2	0	0	*	72	55	0.08	
Munich ...	30.07	56	SW	1	0	30.13	+ 2.2	59	57	+ 6	W	5	0	*	61	52	0.39	
FRANCE & NETHERLANDS.																		
The Helder ...	29.92	59	W	1	0	29.89	+ 0.3	61	60	+ 2	SSW	1	0	*	63	57	-	
Brussels ...	*	*	*	*	*	29.94	- 0.2	61	61	+ 3	SSW	4	0	*	70	58	0.63	
Cape Gris Nez ...	29.92	63	SW	4	0	29.91	- 0.2	57	57	+ 2	WSW	4	0	*	64	55	0.04	
Paris ...	30.02	62	?	3	0	30.02	- 0.0	61	60	+ 3	SW	3	0	*	68	?	0.04	
Brest ...	30.08	59	N	3	0	30.03	+ 0.1	57	55	+ 2	SW	5	0	*	72	45	0.04	
Lorient ...	*	61	WSW	4	0	30.05	+ 0.4	57	56	- 3	WSW	3	0	*	66	54	0.08	
Rochefort ...	30.12	66	WNW	5	0	30.12	+ 0.1	68	62	+ 1	WSW	5	0	*	72	59	0.04	
Belfort ...	30.05	61	W	1	0	30.11	+ 0.7	65	62	+ 6	WNW	3	0	*	?	54	0.20	
Lyons ...	30.08	66	N	1	0	30.13	+ 0.7	61	59	+ 4	WNW	1	0	*	67	55	0.04	
Nice ...	29.95	66	SW	3	0	30.02	+ 1.3	65	63	+ 3	2	0	0	*	73	57	-	
Perpignan ...	30.05	74	NW	3	0	30.12	- 0.0	69	63	+ 3	NW	3	0	*	82	55	-	
Biarritz ...	30.08	68	NE	5	0	30.12	- 0.3	65	63	+ 1	W	3	0	*	72	63	-	
PENINSULA.																		
Corunna ...	*	*	*	*	*													
Lisbon ...	30.10	67	WNW	4	0	30.12	- 0.1	63	60	- 1	WNW	5	0	*	75	61	-	

For Explanation of Columns, see p. 2.

† Received too late for insertion in Charts on p. 2.

WEATHER CHARTS

for 8 a.m. on Saturday, 21st July, 1883.

BAROMETER, WIND & SEA.

(Explanation of Map)

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

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

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

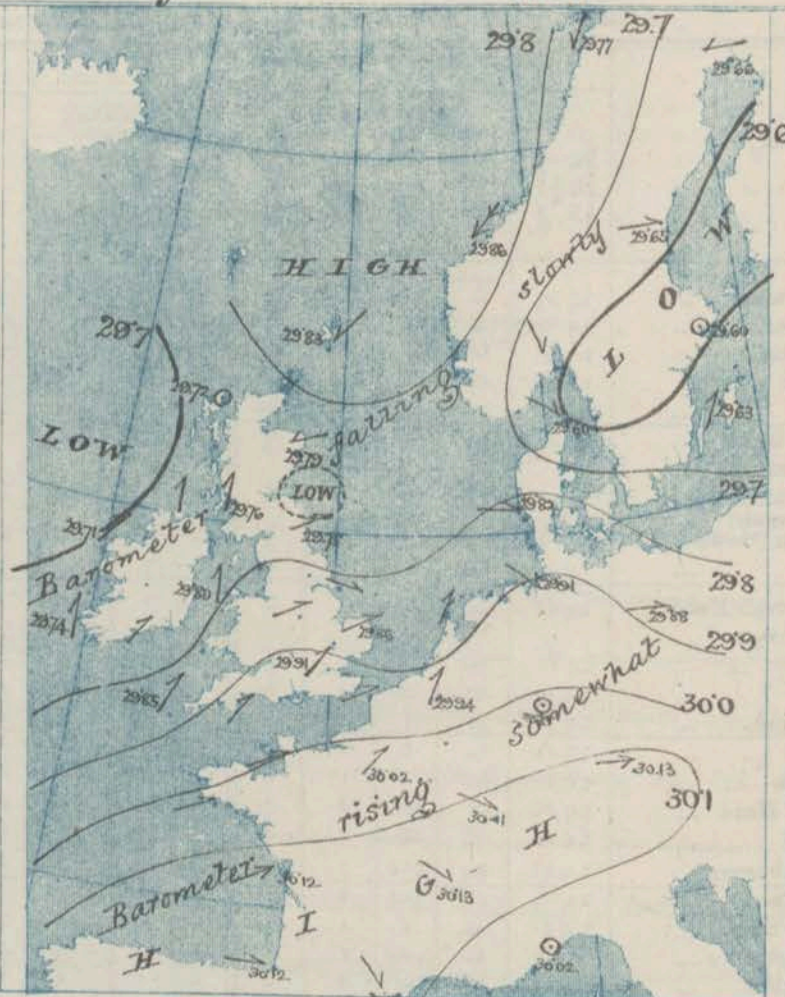
Sea Disturbance — where considerable, is shown thus.

— Rough. — High.

MEAN HEIGHT of the BAROMETER

at 8 a.m. for the month of July
During the 15 Years 1871—1885.

STATIONS.	MEAN READINGS.
Sumburg Head	29.794
Stornoway	29.797
Wick	29.810
Nairn	29.821
Aberdeen	29.831
Leith	29.850
Shields	29.876
York	29.910
Loughborough	29.936
Ardrossan	29.862
Donaghadee	29.881
Holyhead	29.918
Liverpool	29.913
Parsonstown	29.921
Valencia	29.939
Roche's Point	29.938
Pembroke	29.942
Scilly	29.984
Jersey	30.009
Hurst Castle	29.974
Dover	29.970
LONDON	29.967
Oxford	29.953
Cambridge	29.947
Yarmouth	29.943



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

Temperature — Isotherms are drawn for each 10° changes since previous morning are stated in words.

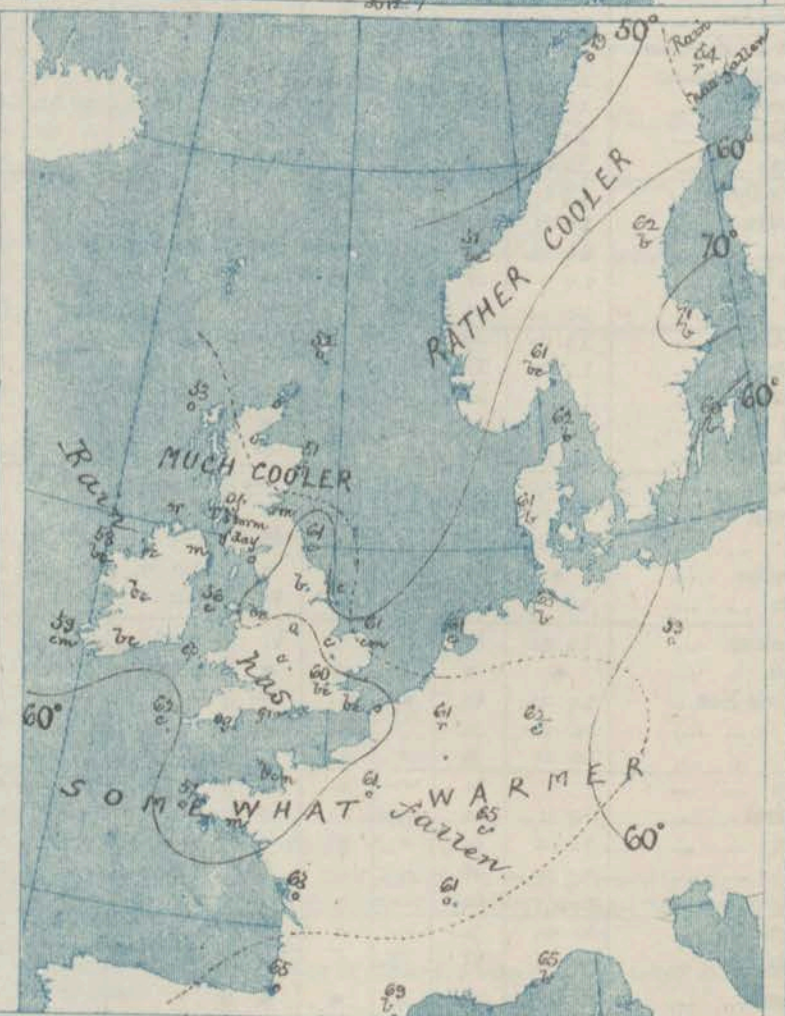
Weather is shown by Letters of the Beaufort Scale.

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

MEANS OF TEMPERATURE IN SHADE.
AND RAINFALL.
for the month of July.

STATIONS.	TEMPERATURE.				RAINFALL. (Inches.)
	Daily Max.	Daily Min.	at 8 a.m.		
			Dry.	Wet.	
Sumburgh Head	57.8	48.3	53.6	52.0	2.09
Stornoway	60.2	49.5	56.0	54.0	3.02
Wick	62.2	49.2	56.1	53.8	2.25
Nairn	64.7	51.4	57.2	53.6	2.57
Aberdeen	64.4	51.1	58.0	54.4	2.74
Leith	67.1	51.7	58.6	55.3	2.84
Shields	64.4	52.9	58.6	55.4	2.63
York	68.5	52.1	59.4	56.2	2.57
Loughborough	72.1	53.0	62.0	58.2	2.34
Ardrossan	63.9	53.2	57.5	54.8	2.91
Donaghadee	63.1	51.6	57.4	55.6	2.67
Holyhead	63.9	54.7	58.2	55.9	2.32
Liverpool	66.1	54.4	59.6	55.9	2.99
Parsonstown	66.4	51.9	58.3	54.8	3.01
Valencia	64.1	53.6	58.7	56.3	3.91
Roche's Point	66.7	53.3	58.7	55.8	3.16
Pembroke	62.9	55.0	58.1	55.9	2.31
Scilly	64.5	56.3	60.1	58.0	2.29
Jersey	68.8	56.3	62.2	59.2	2.21
Hurst Castle	67.9	55.7	61.3	58.8	2.15
Dover	67.2	56.9	62.6	58.8	1.82
LONDON	73.0	54.1	62.3	58.1	2.17
Oxford	69.9	53.7	60.2	56.8	2.51
Cambridge	72.3	52.4	61.4	57.9	2.30
Yarmouth	66.8	55.2	61.2	58.1	2.68

Note — The Temperature means are for the 15 years 1871—85, the Rainfall means are mainly those for the 40 years 1846—85



GENERAL SITUATION AT 8 A.M.

PRESSURE	<p>Highest, 30.1 ins. and upwards, over Spain and the southern part of Germany and France.</p> <p>Lowest, 29.6 ins. and less, over the south of Sweden; 29.7 ins. and less, in a shallow depression lying to the northward of our Islands.</p> <p>Gradients moderate in the south, but slight elsewhere. Barometer falling slowly over the north of Scandinavia and the greater part of our Islands, but rising elsewhere.</p>
TEMPERATURE	<p>Highest, 71° at Stockholm, 63° at Copenhagen, 65° at Belfast, Biarritz, and Nice, and 63° at Liverpool, Cork, and Glasgow.</p> <p>Lowest, 49° at Bodø, 51° at Christiansund and Aberdeen, 52° at Sumburg H. and Wick, and 53° at Stornoway and Ayr.</p>
WIND	<p>Moderate SW^{ly} in the south of England and the west and north of France.</p> <p>Light S^{ly} on our southern coasts and E^{ly} in the northeast of Scotland.</p> <p>NE^{ly} in the north of Scandinavia, W^{ly} in Denmark and Germany.</p>
WEATHER	<p>Fine in Scandinavia and Denmark, and fair over the greater part of England.</p> <p>Cloudy or overcast elsewhere, with fog or mist at several of our northern stations, and rain at Leith, Malin H., and Newcastle.</p> <p>Rain fell yesterday over the greater part of France and Germany.</p>
SEA	<p>Moderate at Sally, but slight or smooth elsewhere.</p>

PROBABLE CHANGES IN SYSTEM NOW PREVALENT

The depression to the northward of our Islands seems likely to move eastwards or north-eastwards, and the showery weather will probably continue at all our more western and northern stations. In the south some improvement is likely.

FORECASTS

For the 24 hours ending at NOON on 22nd JULY 1888.

DISTRICTS.

FORECASTS.

0	SCOTLAND NORTH	E ^{ly} and SE ^{ly} winds, light; changeable, some rain.
1	SCOTLAND EAST	
2	ENGLAND N.E.	
3	ENGLAND EAST	SW ^{ly} and S ^{ly} winds, light; unsettled, some showers.
4	MIDLAND COUNTIES	
5	ENGLAND SOUTH	SW ^{ly} winds, moderate or fresh; fair generally, but some showers.


DISTRICTS.


FORECASTS.

6	SCOTLAND WEST	S ^{ly} and SE ^{ly} winds, light; changeable, some showers.
7	ENGLAND N.W.	
8	ENGLAND S.W.	SW ^{ly} winds, fresh; unsettled, some showers.
9	IRELAND NORTH	S ^{ly} to SW ^{ly} winds, moderate or fresh; changeable, some showers.
10	IRELAND SOUTH	

WARNINGS

NONE ISSUED.

Notes.—The South Cone, point downwards () means that gales, or strong winds, are probable, at first from the Southward (from S.E. round by S. to N.W.) Should it appear likely that a gale beginning from between W. and N.W. is likely to veer towards N. or N.E., the North Cone is hoisted in preference to the South Cone.

The North Cone, point upwards () means that gales, or strong winds, are probable, at first from the Northward (from N.W. round by N. to S.E.) Should it appear likely that a gale beginning from between E. and S.E. is likely to veer towards S. or S.W., the South Cone is hoisted in preference to the North Cone.

YESTERDAY'S 2 P.M. REPORTS.

	Bar.	Dry.	Wet.	Wind.	Wes.	Sea.		Bar.	Dry.	Wet.	Wind.	Wes.	Sea.
Skudesnaes ...	29.75	63	57	NW 6	b	3	Holyhead ...	29.82	59	57	SW 3	c	2
Sumburgh Head ...	29.85	52	51	NE 1	o	1	Valencia ...	29.87	63	59	SSW 4	bc	4
Stornoway ...	29.79	65	61	E 1	b	2	Scilly ...	29.92	60	57	WNW 2	c	4
Aberdeen ...	29.83	66	60	SE 1	b	1	Jersey ...	29.96	63	62	SW 3	o	3
Shields ...	29.83	63	57	ESE 3	c	2	Dungeness ...	29.95	58	57	WSW 4	c	2
Ardrossan ...	29.81	62	60	Z 0	o	0	London ...	29.93	65	61	S 3	op	*
Malin Head ...	29.81	59	57	WNW 1	o	1	Yarmouth ...	29.91	62	59	SSE 4	b	3
Mullaghmore ...	29.82	62	58	WNW 3	bc	2	Rocheport ...	30.12	71	66	NW 4	c	3
Belmullet ...	29.83	64	58	SSW 2	b	*							

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

The reports for yesterday morning showed that pressure was highest, 30.1 ins: and upwards, in an anticyclone lying over Spain and the southwest of France, and lowest, 29.5 ins: and less, in a large area lying over Central Russia. A shallow depression with readings below 29.8 ins: was also lying off the west of Scotland. The wind was E^{ly} over Northern Europe and N^{ly} over the Baltic, Denmark, the south of Scandinavia and North Germany. Over France and the south of our Islands, however, it was chiefly SW^{ly}, and in Ireland NW^{ly}, while in the north and east of Great Britain it was light from the E^{ast}. The weather was dull and unsettled over all the more central parts of Europe, with rain in many places, but fine in most of the northern and southern districts. Temperature had fallen a little over Norway, and also in Italy and Algeria, but risen elsewhere; readings ranged from 75° and upwards, at the Mediterranean and Central Algerian stations to 55° or less, in the extreme north and northwest of the British Isles. The highest individual readings were 82° at Cagliari and Biskra, 79° at Brindisi and Constantinople, 77° at Sfax and 76° at Malta; the lowest were 48° at Sumburgh Hd. 53° at Christiansund, 54° at Wick, Malin Head and Donaghadee, and 55° at Skudesnaes, C^{ape} Neg. and K^{iel}.

In the course of the day, the depression off the west of Scotland moved slowly eastwards, but another disturbance began to approach the Irish coast. The weather, therefore, remained generally unsettled, and a thunderstorm occurred at Ardrossan in the evening.

EXPLANATION OF COLUMNS GIVEN ON PAGE 1.

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

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

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

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

DAILY WEATHER REPORT.

for Sunday 27th JULY. 1884.
Issued by the Meteorological Office, 116, Victoria Street, London. R. H. SCOTT, Secretary.

Issued by the Meteorological Office, 116, Victoria Street, London. R. H. SCOTT, Secretary.																		
STATIONS.	† YESTERDAY EVENING.					8 A.M. TO DAY.										PAST 24 HOURS.		
	Barometer at 32° F. and Sea Level.	Temp. in Shade.	WIND.		Weather.	BAROMETER.		SHADE TEMP.			WIND.		Weather.	Sea (0 to 3.)	SHADE TEMP.		Amount of Rainfall.	
			Dir.	Force (0 to 12.)		Reading at 32° F. and Sea Level.	Difference from 8 a.m. yesterday.	Dry.	Wet.	Difference from 8 a.m. yesterday.	Dir.	Force (0 to 12.)			Max.	Min.		
SCANDINAVIA.																		
Haparanda ..	29.61	58	E	2	c	29.56	- .10	59	58	+ .5	E	4	o	*	75	52	0.04	
Hernösand ...	29.63	59	NW	4	b	29.67	+ .02	53	46	- .9	NW	4	b	*	75	50	—	
Stockholm ...	29.65	59	NE	2	b	29.62	+ .02	63	60	- .8	Z	0	o	*	81	55	0.20	
Wisby ...	29.65	62	E	4	b	29.72	+ .09	58	55	- .2	WSW	4	b	*	75	52	—	
Bodö ...	29.71	48	N	b	c	29.59	- .18	49	47	0	N	6	c	3	50	46	0.08	
Christiansund...	29.80	51	NE	4	c	29.81	- .05	51	47	0	ENE	3	bc	2	55	46	—	
Skudesnaes ...	29.71	54	SW	1	o	29.69	- .02	53	50	- .3	SSW	4	o	3	57	54	—	
Christiania Fjord (Færder)	29.56	64	SSW	4	m	29.63	+ .04	57	53	- .4	NNE	5	o	4	73	53	—	
Skagen (The Seaw)	29.65	55	WNW	5	o	29.66	+ .06	58	56	- .2	W	4	c	3	64	54	—	
Fanö ...	29.80	59	W	4	o	29.78	+ .04	60	58	- .2	WSW	4	c	*	63	57	—	
BRITISH ISLANDS.																		
Sumburgh Head	29.79	53	NE	3	o	29.76	- .07	51	47	- .4	NE	4	o	4	55	48	—	
Stornoway ..	29.71	55	SE	3	o	29.66	- .06	55	53	+ .2	SE	4	o	3	57	49	0.25	
Wick ...	29.80	52	E	3	c	29.75	- .05	53	50	+ .3	E	3	o	1	55	48	—	
Nairn ...	29.74	52	E	1	c	29.70	- .06	52	51	- .1	ENE	3	o	3	54	47	0.13	
Aberdeen...	29.77	51	NE	2	pc	29.75	- .04	51	50	0	ENE	1	o	1	52	50	0.03	
Leith ...	29.72	64	W	1	bc	29.70	- .05	53	53	- .4	E	2	rm	*	67	50	0.11	
Shields ...	29.74	64	E	2	o	29.72	- .03	58	55	- .3	SW	2	c	2	68	50	—	
Spurn Head ...	29.80	65	WSW	3	bc	29.80	- .02	62	59	+ .3	SW	4	bc	2	69	55	—	
York ...	29.80	64	S	2	bc	29.76	- .05	65	64	+ .1	S	3	bc	*	69	54	—	
Loughborough	29.82	67	SSW	3	c	29.81	- .04	63	59	+ .4	SSW	4	c	*	70	56	—	
Ardrossan ...	29.72	59	SSW	1	b	29.62	- .14	55	54	0	ENE	2	pm	2	62	50	0.08	
Malin Head ...	29.67	55	ENE	1	opm	29.51	- .24	58	56	+ .2	SSE	3	cgm	2	58	53	0.28	
Mullaghmore ...	29.63	58	SW	3	c	29.47	- .25	61	57	+ .4	SE	5	bc	3	64	56	0.39	
Belmullet ...	29.61	59	E	2	r	29.42	- .29	60	56	+ .4	SE	5	c	*	65	54	0.35	
Donaghadee ...	29.72	60	ENE	3	f	29.60	- .16	57	57	+ .3	S	4	o	2	65	52	0.11	
Barrow-in-Furness	29.76	61	SW	3	b	29.70	- .10	60	59	+ .1	SE	4	o	*	64	54	0.05	
Liverpool (Bidston)	29.78	66	WSW	2	bc	29.72	- .10	62	57	- .5	SSE	3	o	3	68	50	0.03	
Holyhead ...	29.76	58	SSW	4	c	29.66	- .14	58	57	+ .1	S	4	cm	4	62	55	0.11	
Parsonstown ...	29.66	64	SSE	2	c	29.53	- .23	59	57	+ .2	SSE	1	o	*	68	56	0.24	
Valencia ...	29.59	61	S	6	ogm	29.43	- .31	61	58	+ .3	SSE	7	op	6	61	59	0.22	
Roche's Point...	29.67	61	SW	5	om	29.54	- .25	59	58	+ .1	SSW	6	c	5	65	56	0.11	
Pembroke ...	29.79	57	SSW	3	c	29.68	- .12	58	57	+ .1	S	5	cq	4	61	56	0.01	
Scilly ...	29.81	61	SSW	6	o	29.69	- .16	60	59	- .1	SSW	5	o	5	65	57	0.14	
Prawle Point ...	29.90	57	SSW	5	m	29.83	- .09	57	56	+ .1	SSW	4	ogm	4	60	54	0.03	
Jersey ...	29.98	64	WSW	4	cq	29.90	- .10	60	59	+ .1	ESE	4	cm	3	67	57	0.05	
Hurst Castle ...	29.93	49	WSW	6	cpd	29.89	- .05	61	59	+ .2	SW	5	o	4	62	57	—	
Dungeness ...	29.95	58	SW	4	o	29.92	+ .02	59	57	0	SW	4	c	3	62	57	—	
London ...	29.91	63	SW	3	c	29.89	- .02	64	60	+ .4	SSW	4	c	*	66	56	—	
Oxford ...	29.87	60	S	3	o	29.85	- .05	61	58	+ .3	S	4	c	*	65	56	—	
Cambridge ...	29.86	64	S	1	b	29.85	- .02	63	60	+ .3	S	2	c	*	69	52	—	
Yarmouth ...	29.86	67	N	2	b	29.86	00	64	60	+ .4	WSW	4	bc	2	68	55	—	
Cuxhaven ...	29.89	61	SE	1	t	29.89	- .02	60	59	- .1	WSW	3	c	*	67	59	0.54	
Berlin ...	29.90	69	Z	0	b	29.95	+ .07	63	58	+ .5	W	2	bc	*	75	61	0.04	
Wiesbaden ...	*	*	*	*	*	30.07	+ .05	62	57	0	NW	2	b	*	73	54	0.24	
Munich ...	30.10	63	W	3	o	30.14	+ .01	63	59	+ .4	N	4	r	*	70	54	0.16	
FRANCE & NETHERLANDS.																		
The Helder ...	29.87	60	SW	3	bc	29.89	00	61	69	0	SW	3	c	3	66	59	—	
Brussels ...	*	*	*	*	*	30.00	+ .06	62	58	+ .1	SSW	3	c	*	67	56	—	
Cape Gris Nez...	29.96	60	WSW	5	c	29.98	+ .02	61	59	+ .4	SW	5	c	3	63	55	0.04	
Paris ...	30.02	68	NW	1	bc	30.04	+ .02	69	57	- .2	SE	1	b	*	74	52	—	
Brest ...	30.02	60	SW	5	m	29.95	- .08	58	54	+ .1	SW	4	o	4	70	48	—	
Lorient ...	30.04	62	SW	4	o	29.93	- .12	61	59	+ .4	S	4	o	3	66	55	—	
Rocheport ...	30.13	66	WNW	4	b	30.00	- .12	61	66	- .5	ESE	4	bc	2	72	54	—	
Belfort ...	30.06	72	SW	1	b	30.07	- .04	67	60	+ .7	SW	1	b	*	78	52	—	
Lyons ...	30.03	73	E	2	c	30.07	- .06	67	62	+ .5	SSE	1	b	*	78	56	—	
Nice ...	30.04	67	SW	1	c	30.09	+ .07	64	64	- .4	SW	1	o	1	75	61	—	
Perpignan ...	30.04	78	E	1	b	30.01	- .11	69	66	0	E	3	b	*	84	60	—	
Biarritz ...	30.06	69	NNE	4	a	29.88	- .24	66	64	+ .2	ESE	4	b	2	72	62	—	
PENINSULA.																		
Corunna ...	*	*	*	*	*	29.94	- .22	64	61	- .3	ENE	1	o	3	73	57	—	
Lisbon ...	30.00	65	NW	4	b	30.06	- .06	62	58	- .4	NNW	3	b	2	61	57	—	

For Explanation of Columns, see p. 4.

‡ Received too late for insertion in *Tharis* on p. 2.

WEATHER CHARTS

for 8 a.m. on

Sunday, 22nd July

1883.

BAROMETER, WIND & SEA.

(Explanation of Map)

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

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

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

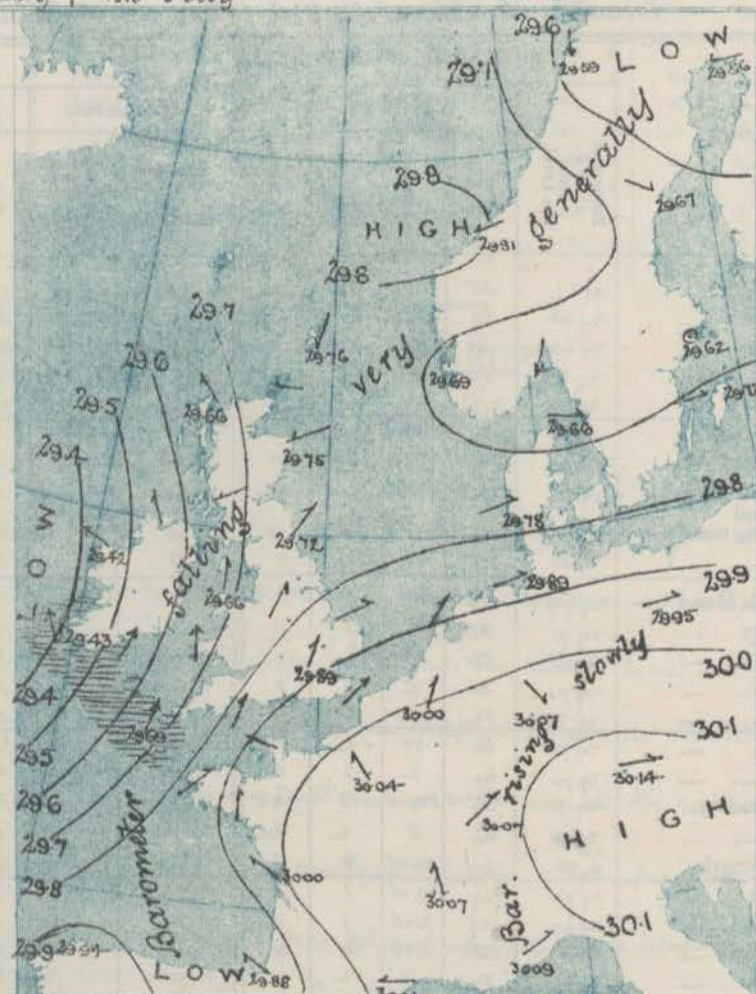
Sea Disturbance — where considerable is shown thus.

— = Rough. — = High.

MEAN HEIGHT of the BAROMETER

at 8 a.m. for the month of July
During the 15 Years 1871 — 1885.

STATIONS.	MEAN READINGS.
Sumbargl Head	29.791
Stornoway	29.797
Wick	29.810
Nairn	29.821
Aberdeen	29.831
Leith	29.850
Shields	29.876
York	29.910
Loughborough	29.936
Ardrossan	29.862
Donaghadee	29.881
Holyhead	29.918
Liverpool	29.918
Parsonstown	29.921
Valencia	29.939
Roche's Point	29.938
Pembroke	29.942
Scilly	29.984
Jersey	30.009
Hurst Castle	29.974
Dover	29.970
LONDON	29.967
Oxford	29.953
Cambridge	29.947
Yarmouth	29.943



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

Temperature — Isotherms are drawn for each 10° changes since previous morning are stated in words.

Weather — is shown by Letters of the Beaufort Scale.

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

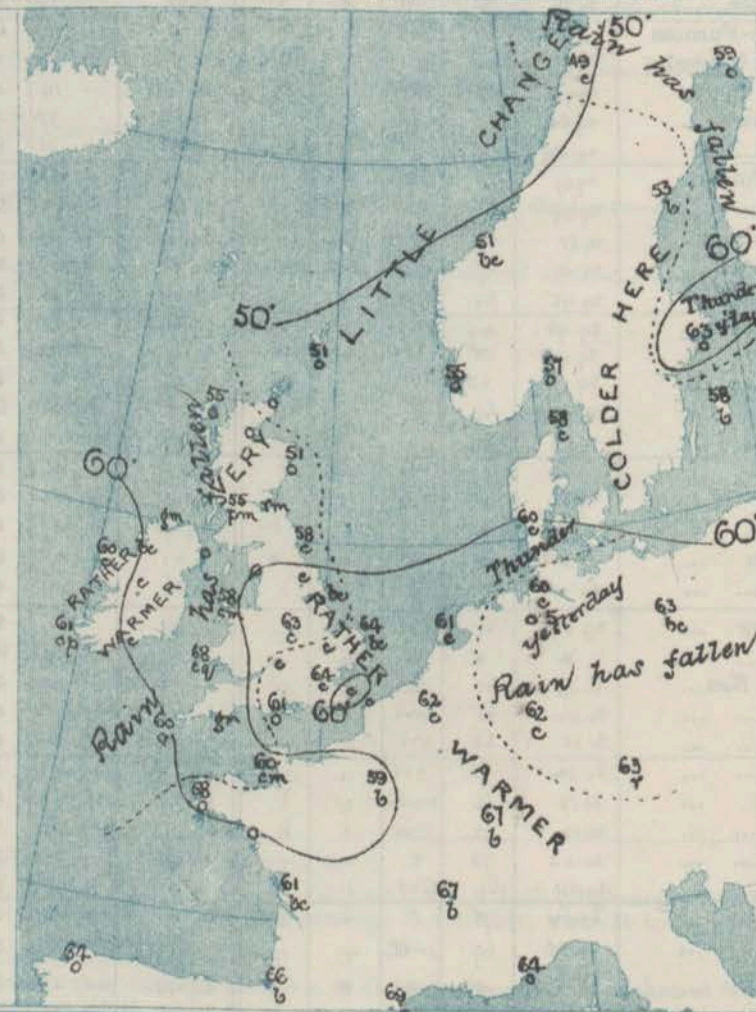
MEANS OF TEMPERATURE IN SHADE.

AND RAINFALL.

for the month of July.

STATIONS.	TEMPERATURE.				RAINFALL. (Inches.)
	Daily Max.	Daily Min.	at 8 a.m.		
			Dry	Wet.	
Sumburgh Head	57.8	48.3	53.8	52.0	2.09
Stornoway	60.2	49.5	56.0	54.0	3.02
Wick	62.2	49.2	56.1	53.8	2.25
Nairn	64.7	51.4	57.2	53.6	2.57
Aberdeen	64.4	51.1	58.0	54.4	2.74
Leith	67.1	51.7	58.6	55.3	2.84
Shields	64.4	52.9	58.6	55.4	2.63
York	68.5	52.1	59.4	56.2	2.57
Loughborough	72.1	53.0	62.0	58.2	2.34
Ardrossan	63.9	53.2	57.5	54.8	2.91
Donaghadee	63.1	51.6	57.4	55.6	2.67
Holyhead	63.9	54.7	58.2	55.9	2.32
Liverpool	66.1	54.4	59.6	55.9	2.99
Parsonstown	66.4	51.9	59.3	54.8	3.01
Valencia	64.1	53.8	58.7	56.3	3.91
Roche's Point	66.7	53.3	58.7	55.8	3.16
Pembroke	62.9	55.0	58.1	55.9	2.31
Scilly	64.5	56.3	60.1	58.0	2.29
Jersey	68.8	56.3	62.2	59.2	2.21
Hurst Castle	67.9	55.7	61.3	58.8	2.15
Dover	67.2	56.9	62.6	58.8	1.82
LONDON	73.0	54.1	62.3	58.1	2.17
Oxford	69.9	53.7	60.2	56.8	2.51
Cambridge	72.3	52.4	61.4	57.9	2.30
Yarmouth	66.8	55.2	61.2	58.1	2.68

NOTE — The Temperature means are for the 15 years 1871—85, the Rainfall means are mainly those for the 10 years 1866—85.



GENERAL SITUATION AT 8 A.M.

PRESSURE

Highest, 30.1 ins: and upwards, over South Germany, 30.0 ins: and upwards in Portugal.
 Lowest, 29.4 ins: and less, in a depression lying off the west of Ireland, 29.6 ins: and less over Scotland.
 Gradient rather steep over Ireland, but moderate or slight elsewhere. Barometer falling at all but the German and eastern French stations.

TEMPERATURE

Highest, 69° at Perpignan, 67° at Belfort and Lyons, 66° at Biarritz, and 64° at Harrogate, London, and Comma.
 Lowest, 49° at Bodø, 51° at Christiansund, Lumburgh, and Aberdeen, 52° at Harbin, and 53° at Harbin, Manch, and Leith.

WIND

Moderate E^{ly} or SE^{ly} in the north of our islands and also in France.
 Strong from S in the south of Ireland, moderate or fresh from SW in the south of England.
 W^{ly} in Denmark and Germany, variable in Scandinavia.

WEATHER

Cloudy or overcast in the west and north of our islands, with rain at Leith, and passing showers at Androsan and Valencia.
 Fair or fine in most other localities, but rainy at Munich.
 Since yesterday morning rain has fallen in the western and northern parts of the United Kingdom and also in Germany.

SEA

Rough at Valencia and rather rough on our southwest coasts generally, but moderate to smooth elsewhere.

PROBABLE CHANGES IN SYSTEM NOW PREVALENT

A new depression has appeared in the west of Ireland, while a shallow secondary system is lying over the north of Spain.

Conditions are, therefore, still unsettled, and showers are probable in most districts.

FORECASTS

For the 24 hours ending at NOON on 23rd July.

1888.

DISTRICTS.

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

FORECASTS.

NONE ISSUED.

DISTRICTS.


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


WARNINGS

FORECASTS.

NONE ISSUED.

NONE ISSUED

Note.—The South Cone, point downwards () means that gales, or strong winds, are probable, at first from the Southward (from S.E. round by S. to N.W.) Should it appear likely that a gale beginning from between W. and N.W. is likely to veer towards N. or N.E., the North Cone is hoisted in preference to the South Cone.

The North Cone, point upwards () means that gales, or strong winds, are probable, at first from the Northward (from N.W. round by N. to S.E.) Should it appear likely that a gale beginning from between E. and S.E. is likely to veer towards S. or S.W., the South Cone is hoisted in preference to the North Cone.

YESTERDAY'S 2 P.M. REPORTS.

	Bar.	Dry.	Wet.	Wind.	Wea.	Sea.		Bar.	Dry.	Wet.	Wind.	Wea.	Sea.
Skudesnaes ...	29.78	57	51	WSTN 2	o	3	Holyhead ...	29.78	58	56	SSW 4	cmp	3
Sumburgh Head ...	29.83	58	49	NE 2	o	3	Valencia ...	29.67	58	57	SE 5	rm	5
Stornoway ...	29.73	55	55	SE 3	r	3	Scilly ...	29.83	64	61	SW 6	c	5
Aberdeen ...	29.78	57	51	ENE 2	f	1	Jersey ...	30.00	66	60	SW 3	o	3
Shields ...	29.75	63	58	ESE 3	o	2	Dungeness ...	29.95	60	57	WSW 5	c	4
Ardrossan ...	29.75	59	57	SSW 1	b	1	London ...	29.92	66	60	SW 3	c	*
Malin Head ...	29.7	56	55	ESE 3	bc	1	Yarmouth ...	29.85	68	59	W 3	bc	3
Mullaghmore ...	29.68	60	56	NE 2	cp	2	Rochefort ...	30.16	69	64	WNW 5	bc	2
Belmullet ...	29.68	64	58	SW 2	bc	*							

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

The reports for yesterday morning showed that pressure was highest, 30.1 ins: and upwards, in a large anticyclone lying over the Iberian Peninsula and the southern parts of France and Germany, and lowest, 29.5 ins: and less, in a depression lying over central Russia. Another depression, with readings below 29.7 ins: was, however, situated to the north-westward of the British Isles. The wind was NE³ over the northern parts of Russia and Scandinavia, and E³ in the north-east of Scotland, but in the west of our Islands it was chiefly S³, while in France and the south of England it was SW⁷. In Germany and Austria W⁴ breezes were general, while in Italy the wind drew into NW. The weather was fine in Scandinavia and Denmark and also over Italy and Algeria, but cloudy or overcast in most other places, with in some parts of Holland and Belgium, and fog or mist at several of our northern stations. Temperature had risen a little over the southern parts of our Islands and also in Spain and France, but fallen in most other localities; readings ranged from 75° and upwards at several of the Spanish, Italian and Algerian stations to 50° or less, over Lapland and northern Russia. The highest individual readings were 83° at Kistna, 79° at Cap Bear, and 75° at Barcelona, Brindisi, Cagliari, Palermo, Malta, and Constantinople; the lowest were 45° at Archangel, 49° at Rodö, 51° at Chertchikund and Aberdeen, 52° at Sumburgh H⁴ and Kiel, and 53° at Stornoway and Harin.

Later in the day the depression off our north-west coasts was joined by a new disturbance which advanced from the S^W, and unsettled conditions, therefore, prevailed in the west generally. Over England the weather was mostly fair.

EXPLANATION OF COLUMNS GIVEN ON PAGE 1.

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

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

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

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

DAILY WEATHER REPORT.

for

Monday, 23rd July

1883.

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

STATIONS.	+ YESTERDAY EVENING.						8 A.M. TO DAY.								PAST 24 HOURS.		
	Barometer at 32° F. and Sea Level.	Temp. in Shade.	WIND.		Weather.	Barometer. Reading at 32° F. and Sea Level.	Difference from 8 a.m. yesterday.	SHADE TEMP.		Difference from 8 a.m. yesterday.	WIND.		Weather.	Sea. 0 to 9.	SHADE TEMP.		Amount of Rainfall.
			Dir.	Force. (0 to 12.)				Dry.	Wet.		Dir.	Force. (0 to 12.)			Max.	Min.	
SCANDINAVIA.																	
Haparanda ..	29.56	55	SW	4	b	29.62	+ .06	54	52	- .5	SW	4	b	*	64	46	-
Hernösand ...	29.72	55	SW	0	b	29.60	+ .13	55	49	+ 2	SW	2	b	*	73	43	-
Stockholm ...	29.72	60	NE	2	o	29.79	+ .17	63	57	0	ENE	2	c	*	72	?	0.39
Wisby ...	29.84	61	SW	2	c	29.86	+ .14	60	58	+ 2	SW	2	b	*	68	54	-
Bodö ...	29.60	46	NW	5	o	29.62	+ .03	46	45	- 3	WSW	6	r	3	49	45	0.28
Christiansund...	29.78	51	NE	4	b	29.78	- .03	50	46	- 1	ENE	2	b	2	54	45	-
Skudesnaes ...	29.75	55	SSW	4	o	29.73	+ .04	59	54	+ 4	SSE	4	o	4	?	55	-
Christiania Fjord (Færdar)	29.72	59	SSE	4	bc	29.76	+ .13	60	55	+ 3	WSW	5	b	2	60	?	-
Skagen (The Scaw)	29.78	56	W	3	o	29.82	+ .16	55	54	- 3	WSW	1	o	1	63	54	-
Fanö ...	29.88	58	WSW	4	o	29.78	00	61	59	+ 1	SSE	4	o	*	64	55	-
BRITISH ISLANDS.																	
Sumburgh Head	29.73	52	ENE	4	c	29.63	- .13	51	48	0	ENE	4	o	5	55	48	-
Stornoway ...	29.61	54	SE	5	o	29.43	- .23	52	52	- 3	E	6	r	4	58	50	0.05
Wick ...	29.61	52	E	2	o	29.59	- .16	53	53	0	E	4	r	3	56	48	0.32
Nairn ...	29.63	55	E	2	o	29.43	- .27	55	54	+ 3	SSE	2	r	1	57	51	0.23
Aberdeen...	29.61	53	E	2	r	29.51	- .24	55	54	+ 4	SE	2	d	3	57	51	0.25
Leith ...	29.63	59	E	1	o	29.42	- .28	57	56	+ 4	E	1	r	m	61	52	0.23
Shields ...	29.61	65	WSW	1	op	29.52	- .20	56	55	- 2	SSE	1	o	U	67	54	0.21
Spurn Head ...	29.76	64	S	3	c	29.52	- .28	61	59	- 1	SSW	4	bc	3	69	54	0.66
York ...	29.70	66	S	2	r	29.50	- .31	65	59	0	SSW	3	c	*	72	57	0.33
Loughborough	29.75	65	S	2	o	29.55	- .26	62	59	- 1	SW	3	c	*	70	56	0.11
Ardrossan ...	29.58	59	SSE	3	op	29.41	- .21	56	54	+ 1	SSW	1	ep	1	62	54	0.45
Malin Head ...	29.47	56	SSE	3	op	29.35	- .16	55	54	- 3	S	3	o	1	67	52	0.46
Mullaghmore ...	29.43	56	SSE	4	bc	29.33	- .14	57	55	- 4	S	2	bc	2	66	55	0.37
Belmullet ...	29.40	62	SSE	4	bc	29.30	- .12	58	54	- 2	S	4	c	*	65	53	0.16
Donaghadee ...	29.55	59	S	6	c	29.39	- .21	57	56	0	SSW	5	c	3	63	52	0.20
Barrow-in-Furness	29.64	63	SSE	4	r	29.47	- .23	58	57	- 2	SSW	3	c	*	65	56	0.32
Liverpool (Blatow)	29.67	62	SSE	3	o	29.48	- .24	63	57	+ 1	SSW	3	bc	3	67	56	0.07
Holyhead ...	29.63	59	S	5	m	29.45	- .21	58	57	0	SSW	4	bc	4	62	55	0.16
Parsonstown ...	29.49	55	SW	0	r	29.36	- .17	59	55	0	SSE	2	bc	*	67	51	0.35
Valencia ...	29.41	60	SE	6	c	29.32	- .11	58	56	- 3	SSW	4	o	4	62	55	0.06
Roche's Point...	29.46	58	SSE	6	r	29.39	- .15	59	57	0	SW	4	c	4	62	55	0.60
Pembroke ...	29.60	57	SSE	5	r	29.48	- .20	57	56	- 1	SSW	4	b	5	60	56	0.02
Seilly ...	29.60	60	S	5	o	29.57	- .12	63	60	+ 3	SSW	5	c	5	63	55	0.16
Prawle Point ...	29.73	56	SSE	2	r	29.60	- .23	57	57	0	S	5	c	m	60	53	0.30
Jersey ...	29.73	66	SSE	1	omg	29.68	- .22	63	59	+ 3	SSW	4	c	3	67	56	0.57
Hurst Castle ...	29.77	62	S	1	og	29.63	- .26	58	57	- 3	SW	6	c	5	66	57	0.25
Dungeness ...	29.80	62	ENE	2	c	29.65	- .27	58	57	- 1	SW	4	c	4	65	57	0.21
London ...	29.79	64	SSE	3	o	29.61	- .28	62	59	- 2	SSW	3	o	*	72	56	0.42
Oxford ...	29.73	60	SE	2	o	29.58	- .27	62	58	+ 1	S	4	bc	*	67	55	0.07
Cambridge ...	29.76	68	SW	1	o	29.58	- .27	62	59	- 1	SSW	2	c	*	72	56	0.54
Yarmouth ...	29.83	65	S	4	bc	29.59	- .27	64	61	0	WSW	4	b	2	68	57	0.13
Cuxhaven ...	29.97	61	WSW	2	b	29.85	- .04	64	62	+ 4	SSE	3	m	*	67	60	-
Berlin ...	29.99	66	SW	0	b	29.95	- .00	66	60	+ 3	S	0	b	*	72	57	-
Wiesbaden ...	*	*	*	*	*	29.87	- .20	64	62	+ 2	SE	0	o	*	73	61	0.04
Munich ...	30.09	63	NE	4	bc	29.98	- .16	68	62	+ 5	SE	4	bc	m	73	54	0.04
FRANCE & NETHERLANDS.																	
The Helder ...	29.87	64	S	1	c	29.62	- .27	64	62	+ 3	SSE	3	a	2	66	61	-
Brussels ...	*	*	*	*	*	29.69	- .31	67	63	+ 5	WSW	4	o	*	74	?	-
Cape Gris Nez...	29.80	69	SSE	1	o	29.61	- .25	59	58	- 2	SW	5	c	4	72	55	0.43
Paris ...	29.83	76	SE	3	bc	29.82	- .22	62	59	+ 3	SW	3	o	*	80	?	0.79
Brest ...	29.84	59	SW	4	o	29.72	- .23	58	57	0	SW	5	o	5	70	46	-
Lorient ...	29.79	61	W	5	o	29.72	- .21	61	61	0	SW	5	o	5	68	59	0.12
Rocheport ...	29.82	72	W	5	bc	29.87	- .13	63	61	+ 2	S	7	o	2	86	59	0.20
Belfort ...	30.01	71	NW	1	b	29.99	- .08	68	62	+ 1	NW	1	o	*	79	58	-
Lyons ...	?	78	SW	5	b	29.91	- .16	69	58	+ 2	S	3	o	*	82	67	-
Nice ...	30.08	65	SW	0	o	30.00	- .03	64	62	0	SW	1	b	0	72	59	-
Perpignan ...	29.88	69	E	4	b	29.94	- .07	63	63	- 6	ENE	1	o	*	81	61	-
Biarritz ...	29.92	66	W	7	o	29.84	- .04	66	60	0	SSW	8	o	2	91	59	-
Corunna ...	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
Lisbon ...	30.02	75	SW	5	o	30.04	- .02	65	64	+ 3	SW	5	b	6	75	?	0.12

WEATHER

CHARTS

for 8 a.m. on Monday 23rd July, 1888.

BAROMETER, WIND & SEA.

(Explanation of Map)

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

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

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

Sea Disturbance — where considerable is shown thus.

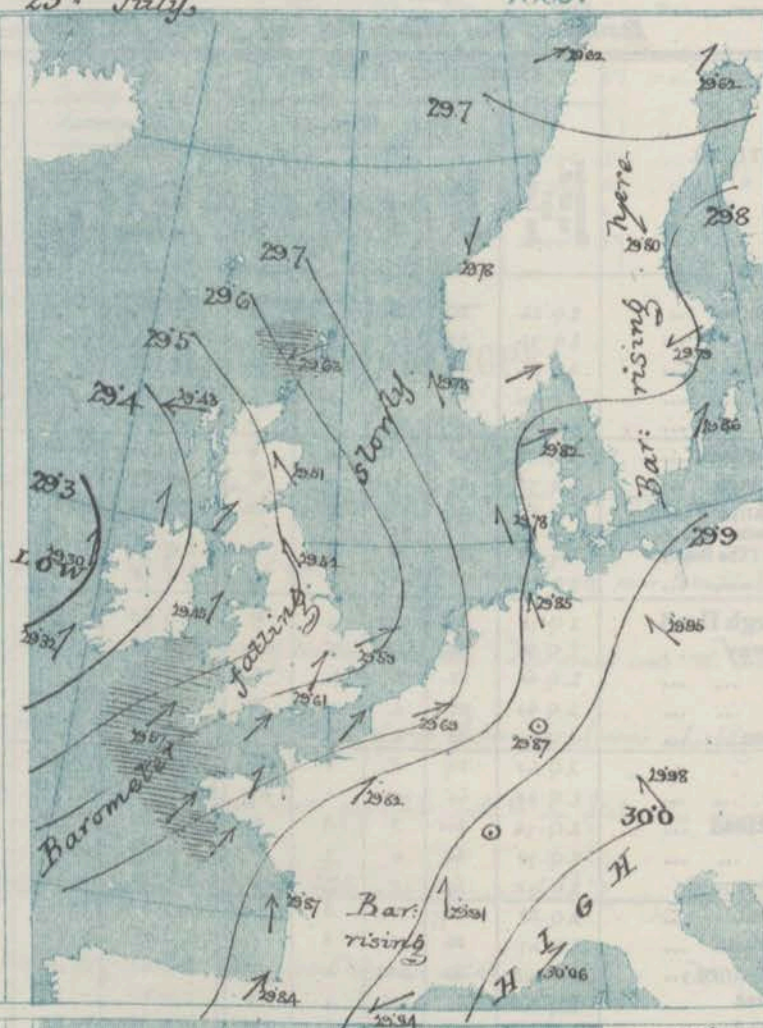
— = Rough — = High

MEAN HEIGHT of the BAROMETER

at 6 a.m. for the month of July

During the 15 Years 1871—1885.

STATIONS.	MEAN READINGS.
Sumburgh Head	29.794
Stornoway	29.797
Wick	29.810
Nairn	29.821
Aberdeen	29.831
Leith	29.850
Shields	29.876
York	29.910
Loughborough	29.936
Ardrossan	29.962
Donaghadee	29.881
Holyhead	29.918
Liverpool	29.913
Parsonstown	29.921
Valencia	29.939
Roche's Point	29.938
Pembroke	29.942
Scilly	29.984
Jersey	30.009
Hurst Castle	29.974
Dover	29.970
LONDON	29.967
Oxford	29.953
Cambridge	29.947
Yarmouth	29.943



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

Temperature — Isotherms are drawn for each 10° Changes since previous morning are stated in words.

Weather — is shown by Letters of the Beaufort Scale.

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

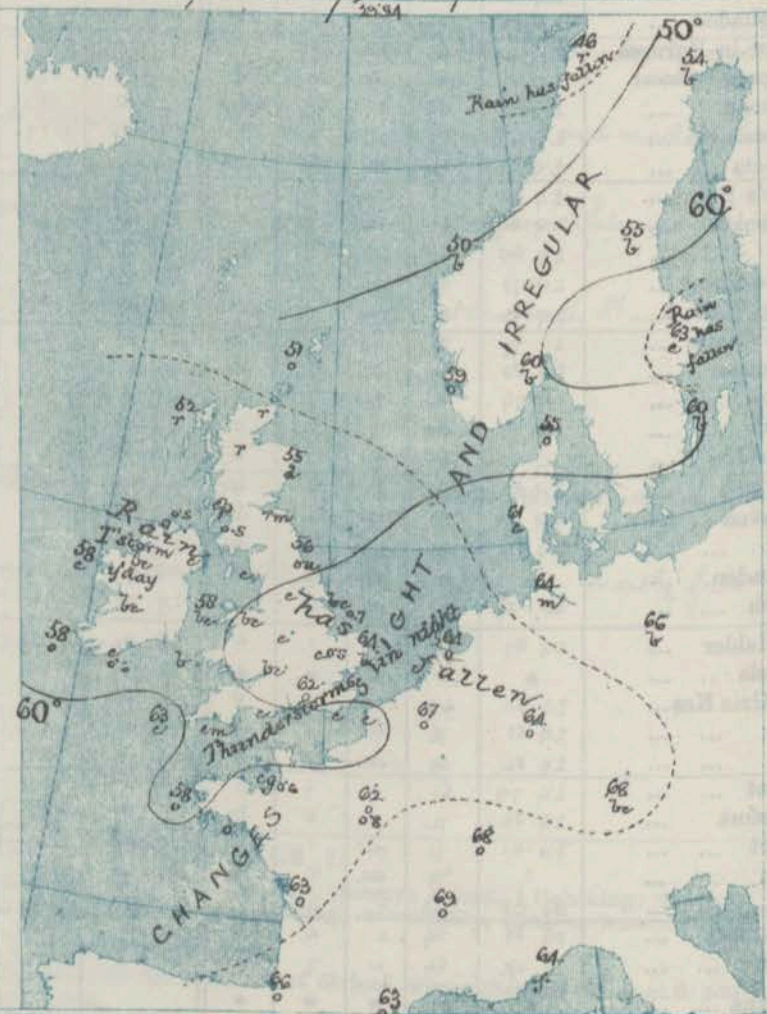
MEANS OF TEMPERATURE IN SHADE.

AND RAINFALL.

for the month of July.

STATIONS	TEMPERATURE.				RAINFALL. (Inches)
	Daily Max	Daily Min	at 8 a.m.		
			Dry	Wet	
Sumburgh Head	57.8	48.3	53.6	52.0	2.09
Stornoway	60.2	49.5	56.0	54.0	3.02
Wick	62.2	49.2	56.1	53.8	2.25
Nairn	61.7	51.4	57.2	53.6	2.57
Aberdeen	64.4	51.1	58.0	54.4	2.74
Leith	67.1	51.7	58.6	55.3	2.84
Shields	64.4	52.9	58.6	55.4	2.63
York	68.5	52.1	59.4	56.2	2.57
Loughborough	72.1	53.0	62.0	58.2	2.34
Ardrossan	63.9	53.2	57.5	54.8	2.91
Donaghadee	63.1	51.6	57.4	55.6	2.67
Holyhead	63.9	54.7	58.2	55.9	2.32
Liverpool	66.1	54.4	59.6	55.9	2.99
Parsonstown	66.4	51.9	58.3	54.8	3.01
Valencia	64.1	53.6	58.7	56.3	3.91
Roche's Point	66.7	53.3	58.7	55.8	3.16
Pembroke	62.9	55.0	58.1	55.9	2.31
Scilly	64.5	56.3	60.1	58.0	2.29
Jersey	68.8	56.3	62.2	59.2	2.21
Hurst Castle	67.9	55.7	61.3	58.8	2.15
Dover	67.2	56.9	62.6	58.8	1.82
LONDON	73.0	54.1	62.3	58.1	2.17
Oxford	69.9	53.7	60.2	56.8	2.51
Cambridge	72.3	52.4	61.4	57.9	2.30
Yarmouth	66.8	55.2	61.2	58.1	2.68

NOTE — The Temperature means are for the 15 years 1871—85, the Rainfall means are mainly those for the 20 years 1866—85.



GENERAL SITUATION AT 8 A.M.

PRESSURE

Highest, 30.06 in: at Nice, 30.04 in: at Lisbon.
Lowest, 29.3 in: and less, in a depression lying off the west of Ireland.
Gradients moderate generally. Barometer falling at all but the Swedish stations.

TEMPERATURE

Highest 65° at Lyons, 68° at Munich and Relfort, 67° at Brussels, 66° at Berlin and Bismarck, and 65° at Lisbon.
Lowest, 46° at Bodo, 50° at Christianeund, 51° at Lumburg Head, 52° at Stomowoy, and 53° at Nisek.
The highest maxima registered yesterday were 72° at York, London, and Cambridge, and 70° at Loughborough.

WIND

S^W or S^W² over England, Ireland, and France; fresh or strong in force over the Channel and Bay of Biscay.
E² in Scotland; SE² on the eastern shores of the North Sea; variable in Sweden.

WEATHER

Rainy in Scotland and dull in the Netherlands and France, but fair or fine elsewhere.

In the course of the past 24 hours thunderstorms have occurred over the east and south of England and the north of Ireland, and heavy rain has fallen in many parts of the United Kingdom, the largest amounts being 0.7 in. at Speen H², 0.6 in. at Jersey, 0.5 in. at Andover, Milton H² and Cambridge.

SEA

Rather rough over the English and Bristol Channels, as well as at Lumburg H², but moderate to smooth elsewhere.

PROBABLE CHANGES IN SYSTEM NOW PREVALENT

The depression off the west of Ireland seems to be almost stationary, but small secondary disturbances have begun to advance over England from the southward.

The barometer in the west of France, after rising last night, is again falling somewhat decidedly and it is therefore probable that small systems will continue to approach our southern coasts.

FORECASTS

for the 24 hours ending at NOON on 24th JULY 1888.

DISTRICTS.

FORECASTS.

0	SCOTLAND NORTH	E ² or SE ² winds, fresh; dull, some rain.
1	SCOTLAND EAST	SE ² winds, light or moderate; dull, some rain, thunder locally.
2	ENGLAND N. E.	S ² and SW ² winds, moderate or fresh; fair at first, showery later, possibly thundery.
3	ENGLAND EAST	
4	MIDLAND COUNTIES	
5	ENGLAND SOUTH	



DISTRICTS.

FORECASTS.

6	SCOTLAND WEST	SW ² to SE ² winds, moderate or fresh; fair to showery.
7	ENGLAND N. W.	
8	ENGLAND S. W.	SW ² to S ² winds, fresh or strong; fine to dull and some rain.
9	IRELAND NORTH	
10	IRELAND SOUTH	

WARNINGS

NONE ISSUED.

Note.—The **South Cone**, point downwards () means that gales, or strong winds, are probable, at first from the Southward (from S.E. round by S. to N.W.) Should it appear likely that a gale beginning from between W. and N.W. is likely to veer towards N. or N.E. the **North Cone** is hoisted in preference to the South Cone.
The **North Cone**, point upwards () means that gales, or strong winds, are probable, at first from the Northward (from N.W. round by N. to S.E.) Should it appear likely that a gale beginning from between E. and S.E. is likely to veer towards S. or S.W., the **South Cone** is hoisted in preference to the North Cone.

YESTERDAY'S 2 P.M. REPORTS.

	Bar.	Dry.	Wet.	Wind.	Woa.	Sea.		Bar.	Dry.	Wet.	Wind.	Woa.	Sea.
Skudesnæs ...	29.73	57	51	SEW 5	0	3	Holyhead ...	29.65	61	59	S 5	0 p q	4
Sunburgh Head ...							Valencia ...						
Stornoway ...	29.62	56	51	SE 4	0	4	Scilly ...						
Aberdeen ...							Jersey ...	29.51	65	62	SE 3	0	3
Shields ...							Dungeness ...	29.86	62	59	SW 3	c	2
Ardrossan ...							London ...						*
Malin Head ...	29.49	66	58	SE 4	0	2	Yarmouth ...						
Mullaghmore ...							Rochefort ...	29.67	85	75	SE 4	0 c	2
Belmullet ...	29.40	64	59	SSW 5	0	*							

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

The reports for yesterday morning showed that pressure was highest 30.1 ins. and upwards, over the southern parts of Germany and Italy, and high 30.0 ins. and upwards, over the whole of south Europe. The lowest readings 29.4 ins. and less were found in a depression lying off the west of Ireland, but another disturbance with readings below 29.6 ins. was situated over Lapland and Finland. The wind was E. in Scotland but SW over the south of our Islands and SE in France. Over central Europe it varied between SW and NW while in the south it was light and variable. The weather was fair on the whole but a good deal of cloud prevailed locally, and rain was falling at some of the Scotch stations. Temperature has risen somewhat over Ireland, England and Germany, but elsewhere the changes were very irregular; readings ranged from 75° and upwards, at several of the Spanish, Algerian and Mediterranean stations to 53° and less over Scotland and northern Europe generally, and to 5° and less in Lapland and northern Russia. The highest individual readings were 86° at Barcelona and Biskra, 81° at Aumale, 78° at La Calle, 77° at Brindisi and Laghouat, and 75° at Malta; the lowest were 43° at Archangel, 44° at Bodo, 51° at Christiansund, 52° at Naem, and 53° at Hernösand, Ulick and Leith. In the course of the day the barometer fell in all parts of western Europe, and in the evening a small secondary depression advanced over France and the south of England, occasioning thunderstorms and heavy rain in many places.

SUMMARY OF CHANGES IN THE WEATHER OVER THE BRITISH ISLANDS AND THEIR NEIGHBOURHOOD FROM THE 15TH TO THE 21ST JULY 1888.

The weather of the past week has remained in a very unsettled changeable state, with rain in all districts and thunderstorms in many parts of Great Britain. Temperature, although decidedly higher than of late, was somewhat low for the time of year, especially during the early part of the period. During the first three days of the week pressure was highest over the Iberian peninsula but also high over northern Europe. With these conditions barometrical depressions continued to form over our Islands, and on the 15th when a small shallow system lay over Brittany cold E. breezes and steady rain were experienced over the greater part of England. On the night of the 15th a large trough of low pressure was formed over the southern parts of Ireland and England, and in the course of the ensuing three days this moved slowly eastwards to the Netherlands and Germany. During the early part of this time E. winds prevailed in all the more northern districts, and variable or S. air in the south, with heavy rain in most places and thunderstorms at some of the English stations. As the low pressure area moved away however, the wind became generally N. and a gradual improvement in the weather took place, but showers still fell in all districts with thunder over England. After the 18th the high pressure system over northern Europe gave way, while the Spanish anticyclone extended eastwards over the south of France. Shallow depressions now appeared off our west coasts and moved eastwards or northeasterly over the northern parts of the Kingdom, occasioning light E. breezes in the north but moderate S. or SW. winds in the west and south. The weather remained changeable and showery in all districts, and a good deal of fog was experienced at some of our northern stations. At the beginning of the week the maximum reading of the thermometer were below 60° in many parts of the United Kingdom, but temperature subsequently rose, and maxima varying between 60° and 70° were experienced pretty generally. On the 19th the thermometer rose to 76° at Ulick, and to 76° at Loughborough.

EXPLANATION OF COLUMNS GIVEN ON PAGE 1.

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

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

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

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

DAILY WEATHER REPORT.

for Tuesday 24th JULY 1888.
 Issued by the Meteorological Office, 116, Victoria Street, London. R.H. SCOTT, Secretary.

Issued by the Meteorological Office, 10, Victoria Street, London, W. 1.																		
STATIONS.	† YESTERDAY EVENING.					8 A.M. TO DAY.										PAST 24 HOURS.		
	Barometer at 32° F. and Sea Level.	Temp. in Shade.	WIND.		Weather.	BAROMETER.		SHADE TEMP.			WIND.		Weather.	Sea. (0 to 9.)	SHADE TEMP.		Amount of Rainfall.	
			Dir.	Force (0 to 12.)		Reading at 32° F. and Sea Level.	Difference from 8 a.m. yesterday.	Dry.	Wet.	Difference from 8 a.m. yesterday.	Dir.	Force (0 to 12.)			Max.	Min.		
SCANDINAVIA.																		
Haparanda ..	29.69	56	ESE	2	b	29.77	+ .15	59	54	+ 5	SSW	2	b	*	66	50	—	
Hernösand ...	29.77	57	S	4	b	29.76	— .04	60	58	+ 5	S	2	b	*	66	45	—	
Stockholm ...	29.82	59	S	2	o	29.76	— .03	61	58	— 2	SE	4	o	*	73	54	—	
Wisby ...	29.89	58	S	2	b	29.75	— .11	63	59	+ 3	SSE	4	o	*	68	55	—	
Bodö ...	29.73	49	WSW	4	o	29.74	+ .12	48	46	+ 2	Z	0	c	1	48	43	0.47	
Christiansund...	29.70	52	NNE	7	b	29.53	— .25	53	49	+ 3	NE	6	c	2	57	48	—	
Skudesnaes ...	29.55	60	ESE	2	r	29.50	— .23	56	56	— 3	S	2	f	3	62	?	—	
Christiania Fjord	29.77	60	SSE	2	o	29.50	— .26	60	59	0	SSW	4	m	2	61	59	0.47	
(Fierder)																		
Skagen (The Seaw)	29.64	61	S	3	o	29.54	— .28	58	57	+ 3	SW	1	o	1	63	55	0.04	
Fanö ...	29.63	58	WSW	4	c	29.64	— .14	60	58	— 1	WSW	4	c	*	68	55	0.24	
BRITISH ISLANDS.																		
Sumburgh Head	29.43	51	ENE	4	r	29.38	— .25	52	52	+ 1	ESE	1	m	4	54	49	0.24	
Stornoway ...	29.84	57	Z	0	c	29.36	— .07	51	51	0	E	2	o	2	57	44	0.25	
Wick ...	29.35	55	S	1	f	29.36	— .23	53	53	0	S	1	f	1	56	46	0.43	
Nairn ...	29.34	58	E	1	c	29.36	— .07	53	53	— 2	Z	0	m	1	63	44	0.11	
Aberdeen...	29.29	59	SSW	2	b	29.41	— .10	59	56	+ 4	S	2	b	1	60	48	0.39	
Leith ...	29.39	62	W	3	b	29.39	— .08	58	56	+ 1	E	1	c	*	68	52	0.15	
Shields ...	29.43	64	WSW	3	o	29.45	— .07	57	54	+ 1	S	3	op	2	68	51	0.02	
Spurn Head ...	29.52	60	SSW	3	cp	29.58	+ .06	60	59	— 1	SSW	5	bcp	3	70	53	0.05	
York ...	?	65	S	2	c	29.52	+ .02	58	56	— 7	S	4	c	*	71	52	0.01	
Loughborough	29.55	58	SW	3	c	29.60	+ .05	60	56	— 2	SSW	5	og	*	70	52	0.22	
Ardrossan ...	29.38	59	SSW	1	b	29.36	— .05	56	35	0	SSW	2	c	2	61	55	0.03	
Malin Head ...	29.40	55	E	1	bcp	29.33	— .02	58	55	+ 3	WSW	1	o	0	61	52	0.32	
Mullaghmore ...	29.29	58	SSW	2	c	29.36	+ .03	57	55	0	SW	3	cp	2	65	53	0.09	
Belmullet ...	29.28	60	SSW	3	o	29.40	+ .10	58	55	0	SW	3	b	*	64	54	0.11	
Donaghadee ...	29.38	58	SSW	3	c	29.37	— .02	58	56	+ 1	SW	3	c	2	64	54	0.05	
Barrow-in-Furness	29.44	62	SSE	3	b	29.43	— .04	57	55	— 1	S	5	c	*	63	55	0.12	
Liverpool (Bidston)	29.48	61	SW	3	c	29.49	+ .01	57	54	— 6	SW	4	r	4	67	53	0.08	
Holyhead ...	29.45	58	SSW	5	b	29.45	00	57	55	— 1	SSW	5	cpm	5	62	54	0.01	
Parsonstown ...	29.34	58	S	1	o	29.44	+ .08	57	55	— 2	SW	2	c	*	64	53	0.54	
Valencia ...	29.35	61	SW	6	c	29.53	+ .21	60	58	+ 2	WSW	4	o	5	62	55	0.13	
Roche's Point...	29.40	57	SW	5	p	29.54	+ .15	60	56	+ 1	WSW	5	b	4	62	55	0.20	
Pembroke ...	29.51	58	SSW	4	b	29.58	+ .10	57	56	0	SW	5	cp	6	60	56	0.10	
Scilly ...	29.59	61	SW	6	c	29.69	+ .12	61	58	— 2	WSW	6	cp	6	64	55	0.09	
Prawle Point ...	29.64	58	SSW	5	b	29.74	+ .14	58	57	+ 1	SSW	6	b	5	61	54	—	
Jersey ...	29.73	60	SW	3	cp	29.86	+ .18	61	58	— 2	WSW	5	b	4	64	57	0.20	
Hurst Castle ...	29.67	60	WSW	6	b	29.75	+ .12	59	58	+ 1	WSW	7	cm	5	66	57	—	
Dungeness ...	29.65	58	SW	5	o	29.79	+ .14	59	57	+ 1	SW	6	c	5	63	56	0.02	
London ...	29.63	64	SSE	3	c	29.74	+ .13	62	57	0	SW	4	c	*	69	55	—	
Oxford ...	29.63	55	SW	3	b	29.68	+ .10	60	57	— 2	SSW	3	b	*	66	53	0.07	
Cambridge ...	29.58	68	SW	2	b	29.69	+ .11	61	58	— 1	S	2	c	*	71	57	0.10	
Yarmouth ...	29.60	63	SW	3	b	29.69	+ .10	62	57	— 2	SW	5	b	3	66	53	—	
Cuxhaven ...	29.73	59	WSW	2	r	29.77	— .08	60	59	— 4	WSW	5	m	*	69	59	0.54	
Berlin ...	29.78	74	Z	0	b	29.85	— .10	67	62	+ 1	W	1	c	*	87	64	—	
Wiesbaden ...	*	*	*	*	*	29.99	+ .12	63	58	— 1	SW	4	m	*	75	55	0.12	
Munich ...	30.04	58	W	P	r	30.10	+ .12	63	60	— 5	SW	5	o	*	81	55	0.91	
FRANCE & NETHERLANDS.																		
The Helder ...	29.65	61	SW	4	r	29.75	+ .13	60	57	— 4	SW	5	c	3	66	59	0.08	
Brussels ...	*	*	*	*	*	29.89	+ .20	60	56	— 7	SSW	7	c	*	71	55	0.75	
Cape Gris Nez...	29.48	59	SW	5	c	29.80	+ .12	59	57	0	SW	3	b	5	66	57	0.12	
Paris ...	29.87	64	S	3	b	29.99	+ .17	68	57	— 4	SW	3	b	*	69	54	0.43	
Brest ...	29.80	60	SW	7	b	29.92	+ .20	57	54	— 1	SW	5	o	5	68	48	—	
Lorient ...	29.80	63	WSW	8	b	29.93	+ .21	61	59	0	WSW	7	b	6	64	59	0.04	
Rochefort ...	29.96	66	W	7	c	30.06	+ .19	64	61	+ 1	WSW	5	c	2	73	57	—	
Belfort ...	29.98	68	W	1	o	30.07	+ .08	65	61	— 3	W	1	o	*	73	57	—	
Lyons ...	29.92	72	S	4	c	30.06	+ .15	65	61	— 4	WSW	1	b	*	75	59	0.08	
Nice ...	30.01	70	NE	4	b	30.07	— .04	71	64	+ 7	NE	1	b	1	79	77	—	
Perpignan ...	29.93	71	NE	4	b	30.04	+ .10	71	68	+ 8	NE	1	b	*	90	61	—	
Biarritz ...	29.99	67	W	3	o	30.07	+ .23	68	64	+ 2	Z	0	c	2	77	63	—	
Corunna ...	*	*	*	*	*	30.01	+ .16	67	62	+ 4	WSW	5	b	4	70	55	—	
Lisbon ...	30.09	68	SW	3	o	30.10	+ .06	66	64	+ 1	WSW	3	o	2	72	64	—	

For Explanation of Columns, see p. 4.

† Received too late for insertion in Charts on p. 2.

WEATHER

CHARTS

for 8 a.m. on

Tuesday, 24th July

1888.

BAROMETER, WIND & SEA.

(Explanation of Map)

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

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

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

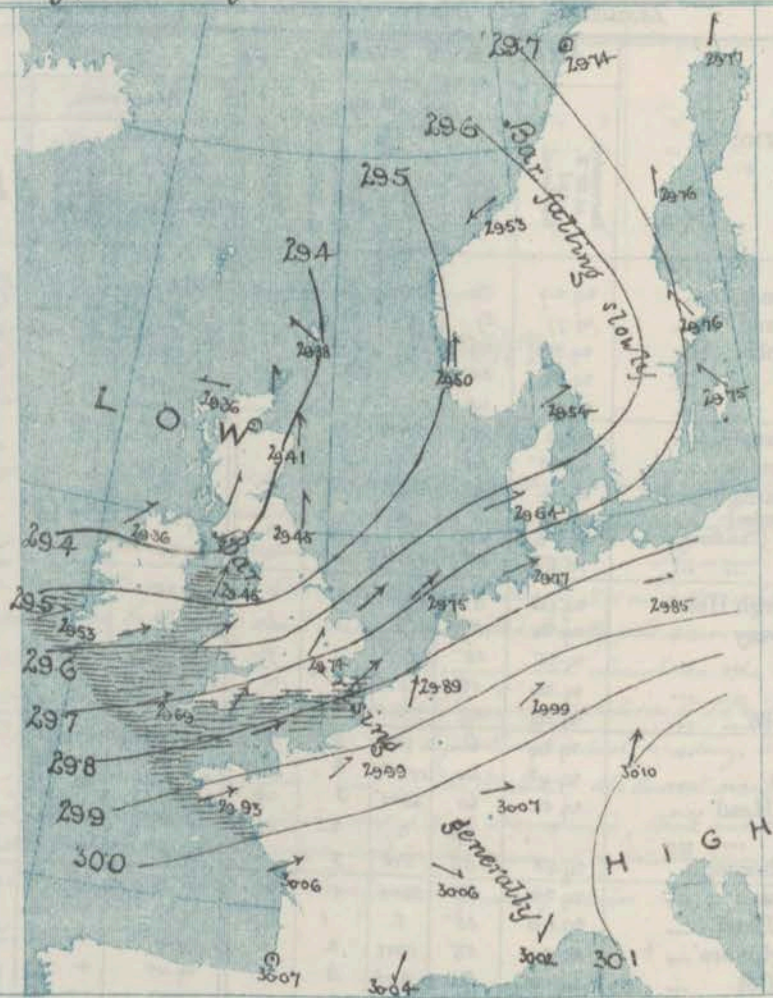
Sea Disturbance — where considerable is shown thus.

■ = Rough. ■ = High.

MEAN HEIGHT of the BAROMETER

at 8 a.m. for the month of July
During the 15 Years 1871—1885.

STATIONS.	MEAN READINGS.
Sumburgh Head	29.794
Stornoway	29.787
Wick	29.810
Nairn	29.821
Aberdeen	29.831
Leith	29.850
Shields	29.876
York	29.910
Loughborough	29.936
Ardrossan	29.862
Donaghadee	29.881
Holyhead	29.918
Liverpool	29.913
Parsonstown	29.921
Valencia	29.939
Roche's Point	29.988
Pembroke	29.942
Scilly	29.984
Jersey	30.009
Hurst Castle	29.974
Dover	29.970
LONDON	29.967
Oxford	29.953
Cambridge	29.947
Yarmouth	29.943



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

Temperature — Isotherms are drawn for each 10° changes since previous morning are stated in words.

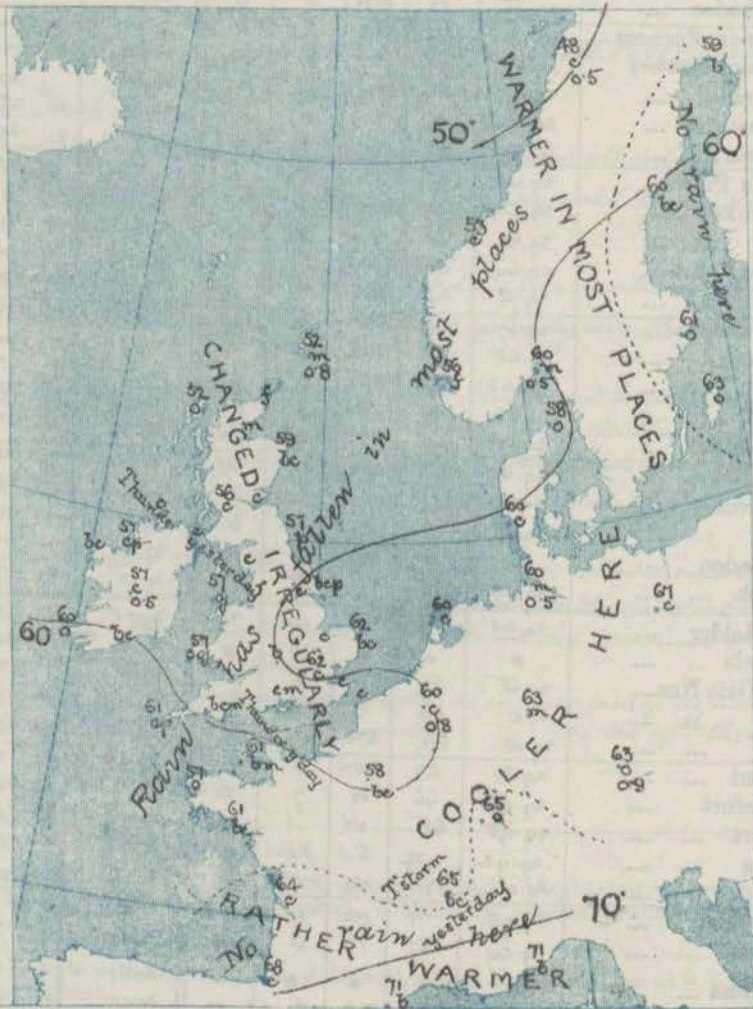
Weather — is shown by Letters of the Beaufort Scale.

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

MEANS OF TEMPERATURE IN SHADE. AND RAINFALL. for the month of July.

STATIONS.	TEMPERATURE.				RAINFALL. (Inches)
	Daily Max.	Daily Min.	at 8 a.m. Dry.	Wet.	
Sumburgh Head	57.8	48.3	58.0	52.0	2.09
Stornoway	60.2	49.5	56.0	54.0	3.02
Wick	62.2	49.2	56.1	53.8	2.25
Nairn	64.7	51.4	57.2	53.6	2.57
Aberdeen	64.4	51.1	58.0	54.4	2.74
Leith	67.1	51.7	58.8	55.3	2.84
Shields	64.4	52.9	58.6	55.4	2.03
York	68.5	52.1	59.4	56.2	2.57
Loughborough	72.1	53.0	62.0	58.2	2.34
Ardrossan	63.9	53.2	57.5	54.8	2.91
Donaghadee	63.1	51.6	57.4	55.6	2.07
Holyhead	63.9	54.7	58.2	55.9	2.32
Liverpool	66.1	54.4	59.6	55.9	2.99
Parsonstown	66.4	51.9	58.3	54.8	3.01
Valencia	64.1	53.6	58.7	56.3	3.91
Roche's Point	66.7	53.3	58.7	55.8	3.16
Pembroke	62.9	55.0	58.1	55.9	2.31
Scilly	64.5	56.3	60.1	58.0	2.29
Jersey	68.8	56.3	62.2	59.2	2.21
Hurst Castle	67.9	55.7	61.3	58.8	2.15
Dover	67.2	56.9	62.6	58.8	1.82
LONDON	73.0	54.1	62.3	58.1	2.17
Oxford	69.9	53.7	60.2	56.8	2.51
Cambridge	72.3	52.4	61.4	57.9	2.30
Yarmouth	66.8	55.2	61.2	58.1	2.68

NOTE — The Temperature means are for the 15 years 1871—85, the Rainfall means are mainly those for the 30 years 1866—85.



GENERAL SITUATION AT 8 A.M.

PRESSURE

Highest 30.10 ins. at Munich and Lisbon.
 Lowest 29.4 ins. and less in a large depression lying over Scotland and the north of Ireland.
 Gradients rather steep over the south of our Islands and the north of France, but slight elsewhere.
 Barometer falling a little over the north of England and also in the south of Scandinavia, but rising elsewhere.

TEMPERATURE

Highest 71° at Nice and Perpignan, 68° at Biarritz, 67° at Berlin, 66° at Lisbon, and 65° at Belfort and Lyons.
 Lowest 45° at Porto, 52° at Lumburgh Head and Hørnøway, 53° at Christianssund and Naïm, and 56° at Hudonafjell and Androsen.

WIND

Light from the SE^W in the north and east of Scotland, and moderates from the same quarter in Sweden.
 SW^{ly} elsewhere; strong in force over the English Channel and fresh in many other localities.

WEATHER

Hazy or misty in the north of Scotland, and showery over the greater part of England and Ireland.
 Fair at most of the Continental stations.
 Rain fell yesterday in most parts of the Kingdom with thunderstorms in some places.

SEA

Rough off the southwest of England and rather rough on our west and south coasts generally, but moderate or slight elsewhere.

PROBABLE CHANGES IN SYSTEM NOW PREVALENT

The depression in the north is moving very slowly eastwards, and showery weather seems likely to continue over the greater part of the Kingdom. There are at present no indications of the advance of any new disturbance.

FORECASTS

for the 24 hours ending at NOON on 25th JULY 1888.

DISTRICTS.

FORECASTS.

0	SCOTLAND NORTH	SE ^{ly} and S ^{ly} winds; light; dull, some mist and rain.
1	SCOTLAND EAST	Light breezes, chiefly S ^{ly} ; changeable, some showers.
2	ENGLAND N.E.	S ^{ly} and SW ^{ly} winds; fresh; changeable, some showers.
3	ENGLAND EAST	S ^{ly} and SW ^{ly} winds; fresh; changeable, some showers.
4	MIDLAND COUNTIES	SW ^{ly} winds; fresh, or strong; fair generally, but some showers.
5	ENGLAND SOUTH	SW ^{ly} winds; fresh, or strong; fair generally, but some showers.

DISTRICTS.

FORECASTS.

6	SCOTLAND WEST	SW ^{ly} winds; light, to W ^{ly} strong; changeable, some showers.
7	ENGLAND N.W.	Same as N ^o 2 to 4.
8	ENGLAND S.W.	SW ^{ly} and W ^{ly} winds; strong; squally, some showers.
9	IRELAND NORTH	Same as N ^o 6.
10	IRELAND SOUTH	Same as N ^o 8.

WARNINGS

NONE ISSUED.

Note.—The South Cone, point downwards (↓) means that gales, or strong winds, are probable, at first from the Southward (from S.E. round by S. to N.W.) Should it appear likely that a gale beginning from between W. and N.W. is likely to veer towards N. or N.E. the North Cone is hoisted in preference to the South Cone.
 The North Cone, point upwards (↑) means that gales, or strong winds, are probable, at first from the Northward (from N.W. round by N. to S.E.) Should it appear likely that a gale beginning from between E. and S.E. is likely to veer towards S. or S.W., the South Cone is hoisted in preference to the North Cone.

YESTERDAY'S 2 P.M. REPORTS.

	Bar.	Dry.	Wet.	Wind.	W. or S.	Sea.		Bar.	Dry.	Wet.	Wind.	W. or S.	Sea.		
Skudesnaes ...	29.66	62	58	SSE	2	of	3	Holyhead ...	29.44	61	57	SSW	4	bp	4
Sumburgh Head ...	29.55	50	49	ENE	4	r	5	Valencia ...	29.83	62	60	SSW	6	cp	6
Sternoway ...	29.35	56	56	SE	4	r	4	Scilly ...	29.56	64	60	SW	5	bc	5
Aberdeen ...	29.41	57	56	S	2	op	3	Jersey ...	29.68	64	62	S	3	c	3
Shields ...	29.43	64	58	SW	3	cp	2	Dungeness ...	29.67	59	59	SW	4	r	3
Ardrossan ...	29.38	59	57	SSW	1	bc	1	London ...	29.62	66	60	SSE	4	o	*
Malin Head ...	29.32	54	53	E	4	c	2	Yarmouth ...	29.59	65	62	S	5	c	3
Mullaghmore ...	29.30	60	57	SSW	2	cp	2	Rocheport ...	29.86	69	64	SW	7	c	3
Belmullet ...	29.28	62	58	SSW	3	bc	*								

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

The reports for yesterday morning showed that pressure then varied from 30 ins. and more over all the southeastern parts of Europe to about 29.6 ins. over Lapland and the extreme north of Russia, and to about 29.3 ins. in a depression, the centre of which lay off the west of Ireland. The gradients were moderate—favourable for SE winds over Central Europe and for W. and S. winds in the north and west; but owing to some small secondary disturbance they varied locally. The weather was showery over all the western and northern countries, but bright at intervals; thundery in places. Temperature was not changing much and continued low for the time of year;—the 8 a.m. values ranged from upwards of 80° in Algeria and from between 75° and 80° over the southern parts of the Mediterranean to rather below 50° both in the northwest of Norway and on the shores of the White Sea. The highest individual values were 88° at Biskra (Algeria) 78° at Barcelona, 77° at Malta and Brindisi, 76° at Bilbao and Trieste, 73° at Pesaro and Lania, 72° at Livorno, 69° at Lyons; the lowest were 46° at Bodø, 48° at Archangel, 50° at Christiansund, and 51° at Sumburgh Head and Kuopio.

Later in the day the depression off the west of Ireland began to move slowly northeastwards and the barometer rose at all our western and southern stations. The weather remained fair in the southeast but showers and local thunderstorms were experienced elsewhere.

EXPLANATION OF COLUMNS GIVEN ON PAGE 1.

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

* AN ASTERISK is inserted in all places for which information is not usually received.
† The evening observations are taken at 6 p.m. in France and our Islands with the exception of Oxford, where they are taken at 8 p.m. In Sweden and Denmark, the observations are taken at 8 p.m. (Christiania time).

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

DAILY WEATHER REPORT.

for Wednesday 25th July 1888.
Issued by the Meteorological Office, 116, Victoria Street, London. R. H. SCOTT, Secretary.

Issued by the Meteorological Office, 116, Victoria Street, London. R. H. SCOTT, Secretary.																		
STATIONS.		+ YESTERDAY EVENING.					8 A.M. TO DAY.										PAST 24 HOURS.	
		Barometer at 32° F. and Sea Level.	Temp. in Shade.	WIND.		Weather.	BAROMETER.		SHADE TEMP.			WIND.		Sea. (0 to 2.)	SHADE TEMP.		Amount of Rainfall.	
				Dir.	Force. (0 to 12.)		Reading at 32° F. and Sea Level.	Difference from 8 a.m. yesterday.	Dry.	Wet.	Difference from 8 a.m. yesterday.	Dir.	Force. (0 to 12.)		Weather.	Max.		Min.
SCANDINAVIA.																		
Haparanda ..		29.68	57	S	2	o	29.48	- 29	57	57	- 2	S	4	r	*	63	48	0.71
Hornösand ...		29.51	58	S	6	o	29.49	- 27	58	55	- 2	S	8	bc	*	64	52	0.59
Stockholm ...		29.65	60	SSW	2	o	29.73	- 08	63	57	+ 2	SSW	6	c	*	66	55	—
Visby ...		29.79	60	WSW	4	b	29.86	+ 11	63	57	0	SW	4	b	*	70	54	—
Bodö ...																		
Christiansund...																		
Skudesnaes ...		29.55	58	S	6	o	29.38	+ 08	58	56	+ 2	S	3	o	4	59	55	—
Christiania Fjord (Færder)		29.54	59	WSW	7	o	29.59	+ 09	58	56	- 2	SW	5	bc	4	61	57	—
Skagen (The Scaw)		29.65	55	W	4	o	29.69	+ 15	57	56	- 1	WSW	4	c	2	64	55	0.35
Fanö ...		29.77	59	S	6	c	29.79	+ 15	64	60	+ 4	SW	6	bc	*	64	57	—
Sumburgh Head		29.43	55	Z	0	c	29.51	+ 13	54	53	+ 2	Z	0	m	2	59	49	—
Sornoway ...		29.42	55	SE	2	o	29.50	+ 14	53	52	+ 1	NE	3	o	3	58	49	0.02
Wick ...		29.40	52	E	2	f	29.51	+ 15	53	53	0	NW	1	o	1	58	49	0.03
Nairn ...		29.40	55	Z	0	o	29.49	+ 13	59	57	+ 6	N	1	b	1	63	50	0.31
Aberdeen...		29.42	59	S	2	c	29.53	+ 12	61	57	+ 2	SSE	1	bc	1	64	52	0.01
Leith ...		29.44	60	NW	1	bc	29.53	+ 14	58	56	0	NW	1	cm	*	66	54	0.16
Shields ...		29.51	63	SW	4	bc	29.59	+ 14	56	54	- 1	SSW	2	op	2	65	54	0.06
Spurn Head ...		29.64	64	WSW	5	bc	29.68	+ 10	57	57	- 3	S	4	op	3	67	53	0.07
York ...		29.59	64	SW	5	c	29.64	+ 12	56	55	- 2	S	2	r	*	66	52	0.23
Loughborough		29.67	63	WSW	3	bc	29.65	+ 05	57	56	- 3	SSE	3	op	*	67	55	0.26
Ardrossan ...		29.45	57	S	3	c	29.51	+ 15	57	56	+ 1	S	2	o	2	62	54	0.01
Malin Head ...		29.45	60	W	1	c	29.49	+ 16	56	54	- 2	S	1	o	0	62	53	—
Mullaghmore ...		29.49	57	SW	2	p	29.49	+ 15	57	55	0	SW	1	op	1	63	54	0.31
Belmullet ...		29.48	59	WSW	3	bc	29.49	+ 09	59	56	+ 1	NE	3	c	-	62	50	—
Donaghadee ...		29.49	64	SW	3	bc	29.52	+ 15	58	56	0	SE	3	bc	2	65	55	0.16
Barrow-in-Furness		29.55	59	SSW	6	bc	29.56	+ 13	55	56	- 2	SE	3	r	*	61	54	0.42
Liverpool (Biddston)		29.62	61	SW	5	c	29.54	+ 05	56	55	- 1	ESE	4	r	3	66	54	0.44
Holyhead ...		29.60	57	SSW	5	c	29.50	+ 05	55	55	- 2	ESE	3	rm	3	62	54	0.37
Parsonstown ...		29.54	60	SW	2	c	29.57	+ 07	59	55	+ 2	Z	0	bc	*	66	50	0.55
Valencia ...		29.58	61	SW	5	cm	29.55	+ 02	60	57	0	WSW	2	cm	2	64	50	0.01
Roche's Point...		29.62	60	WSW	5	bc	29.49	- 05	58	56	- 2	W	2	bc	3	63	54	0.30
Pembroke ...		29.70	58	SSW	4	c	29.58	- 08	58	58	+ 1	SSW	4	epq	6	60	55	0.87
Scilly ...		29.74	60	SW	5	r	29.54	- 15	61	60	0	SW	4	cm	5	64	56	0.28
Prawle Point ...		29.79	58	SSW	6	o	29.65	- 09	67	67	- 1	S	7	ram	5	62	54	0.11
Jersey ...		29.90	62	WSW	4	cm	29.78	- 08	61	59	0	SE	5	orm	4	67	58	0.14
Hurst Castle ...		29.84	59	WSW	6	c	29.73	- 02	59	58	0	SSW	7	rm	5	63	57	0.02
Dungeness ...		29.84	61	SW	5	bc	29.81	+ 02	60	58	+ 1	SSW	4	c	4	64	56	0.04
London ...		29.80	65	SW	4	bc	29.76	+ 02	60	57	- 2	S	2	o	*	69	57	0.01
Oxford ...		29.80	57	SW	4	p	29.69	+ 01	58	67	- 2	S	3	o	*	67	56	0.14
Cambridge ...		29.74	62	S	3	o	29.72	+ 03	59	58	- 2	S	2	-	*	69	54	0.05
Yarmouth ...		29.73	66	WSW	4	bc	29.79	+ 10	61	58	- 1	SSW	4	c	3	68	56	0.05
Cuxhaven ...		29.90	58	SW	3	r	29.90	+ 13	60	59	0	SSW	2	bc	*	64	57	0.10
Berlin ...		29.96	70	Z	0	bc	30.01	+ 16	67	61	0	Z	0	bc	*	77	57	—
Wiesbaden ...		*	*	*	*	*	30.07	+ 08	64	60	+ 1	Z	0	c	*	73	54	—
Munich ...		30.12	63	SW	1	c	30.13	+ 03	66	60	+ 3	Z	0	b	*	72	55	0.24
The Helder ...		29.80	61	SW	5	b	29.84	+ 09	62	60	+ 2	SW	4	bc	3	66	59	—
Brussels ...		*	*	*	*	*	29.91	+ 02	63	59	+ 3	S	4	c	*	69	59	0.04
Cape Gris Nez...		29.82	62	SW	7	bc	29.83	+ 03	61	59	+ 2	S	5	bc	3	66	57	0.08
Paris ...		29.99	66	SSW	1	o	29.93	- 06	60	57	+ 2	SW	1	bc	*	72	54	—
Brest ...		29.93	58	SW	3	o	29.77	- 15	59	58	+ 2	SSW	7	r	5	70	46	0.59
Lorient ...		29.95	62	SW	5	o	29.80	- 18	63	62	+ 2	S	5	o	5	66	61	—
Rochefort ...		30.05	68	WNW	3	b	29.91	- 15	65	63	+ 1	ESE	4	b	2	73	55	—
Belfort ...		30.07	70	N	1	bc	30.04	- 03	73	67	+ 8	NNE	1	b	*	77	61	—
Lyons ...		30.00	75	WSW	1	b	30.07	- 05	68	65	+ 3	SSE	3	b	*	80	61	—
Nice ...		30.05	71	SW	3	b	30.09	+ 07	67	64	- 4	Z	0	b	1	77	63	—
Perpignan ...		30.04	74	E	1	bc	30.03	- 01	66	66	- 5	Z	0	m	*	78	63	0.08
Biarritz ...		29.97	71	NNE	7	b	29.87	- 10	72	67	+ 4	Z	0	b	2	72	66	—
Corunna ...		*	*	*	*	*	30.05	- 05	67	66	+ 1	SSW	3	o	6	73	64	—
Lisbon ...		30.04	68	SW	5	b												

For Explanation of Columns, see p. 4.

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WEATHER

CHARTS

for 8 a.m. on

Wednesday, 25th July

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BAROMETER, WIND & SEA.

(Explanation of Map)

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

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

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

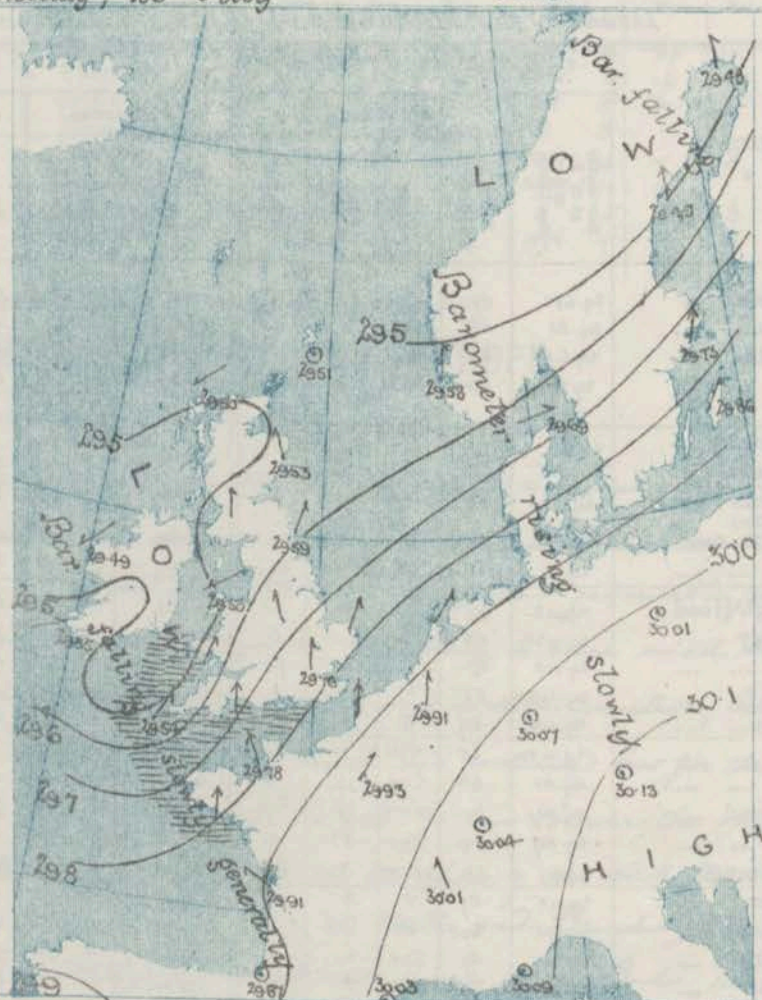
Sea Disturbance — where considerable is shown thus.

— = Rough — = High

MEAN HEIGHT of the BAROMETER

at 8 a.m. for the month of July
During the 15 Years 1871—1885.

STATIONS.	MEAN READINGS.
Sumburgh Head	29.791
Stornoway	29.797
Wick	29.810
Nairn	29.821
Aberdeen	29.831
Leith	29.850
Shields	29.876
York	29.910
Loughborough	29.936
Ardrossan	29.962
Donaghadee	29.981
Holyhead	29.918
Liverpool	29.913
Parsonstown	29.921
Valencia	29.939
Roche's Point	29.938
Pembroke	29.942
Silly	29.984
Jersey	30.009
Hurst Castle	29.974
Dover	29.970
LONDON	29.967
Oxford	29.953
Cambridge	29.947
Yarmouth	29.943



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

Temperature — Isotherms are drawn for each 10° changes since previous morning are stated in words.

Weather — is shown by letters of the Beaufort Scale.

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

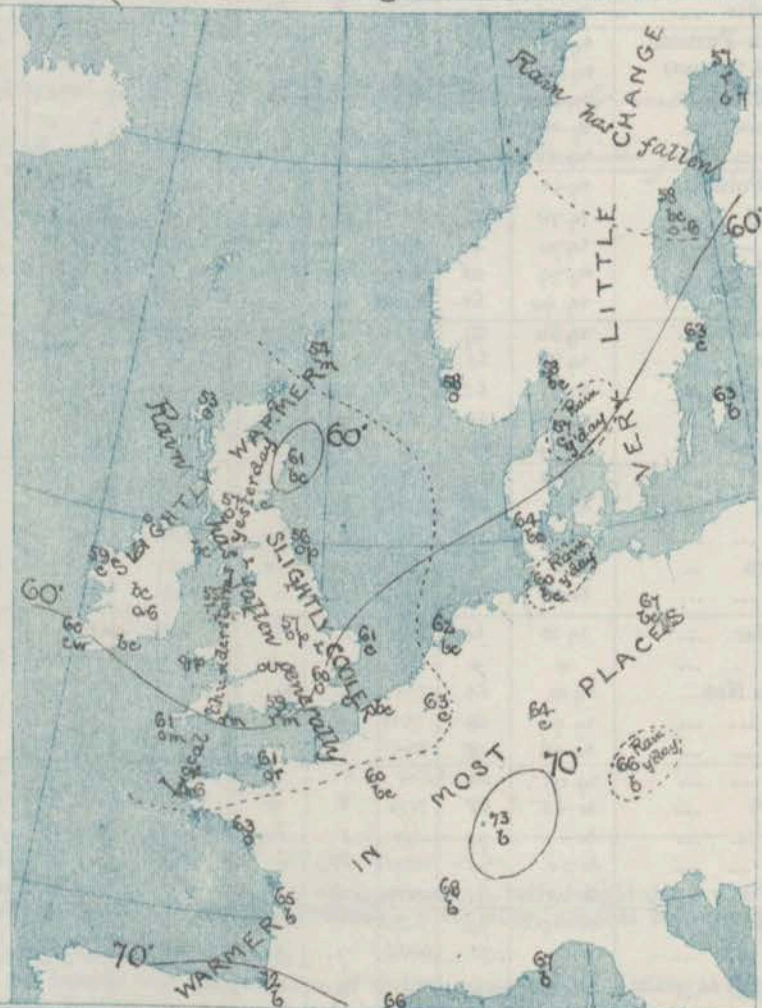
MEANS OF TEMPERATURE IN SHADE.

AND RAINFALL.

for the month of July

STATIONS.	TEMPERATURE.				RAINFALL. (Inches.)
	Daily Max.	Daily Min.	at 8 a.m.		
			Dry	Wet	
Sumburgh Head	57.8	48.3	53.6	52.0	2.09
Stornoway	60.2	49.5	56.0	54.0	3.02
Wick	62.2	49.2	56.1	53.8	2.25
Nairn	64.7	51.4	57.2	53.8	2.57
Aberdeen	64.4	51.1	58.0	54.4	2.74
Leith	67.1	51.7	58.6	55.3	2.84
Shields	64.4	52.9	58.6	55.4	2.63
York	68.5	52.1	59.4	56.2	2.57
Loughborough	72.1	53.0	62.0	58.2	2.34
Ardrossan	63.9	53.2	57.5	54.8	2.91
Donaghadee	63.1	51.6	57.4	55.6	2.67
Holyhead	63.0	54.7	58.2	55.9	2.32
Liverpool	65.1	54.4	59.6	55.9	2.99
Parsonstown	66.4	51.9	58.3	54.8	3.01
Valencia	64.1	53.6	58.7	56.3	3.91
Roche's Point	66.7	53.3	58.7	55.8	3.16
Pembroke	62.9	55.0	58.1	55.9	2.31
Silly	64.5	56.3	60.1	58.0	2.29
Jersey	68.8	56.3	62.2	59.2	2.21
Hurst Castle	67.9	55.7	61.3	58.8	2.15
Dover	67.2	56.9	62.6	58.8	1.32
LONDON	73.0	54.1	62.3	58.1	2.17
Oxford	69.9	53.7	60.2	56.8	2.51
Cambridge	72.3	52.4	61.4	57.9	2.30
Yarmouth	66.8	55.2	61.2	58.1	2.68

NOTE — The Temperature means are for the 15 years 1871—85, the Rainfall means are mainly those for the 20 years 1866—85



GENERAL SITUATION AT 8 A.M.

PRESSURE	Highest 30.1 ins. and upwards over Switzerland and south Germany; 30.0 ins. and upwards in Portugal; lowest 29.5 ins. and less over the west of Scotland, the north of Ireland and the St. Georges Channel, as well as in the north of Sweden. (The reports from Bodo and Christiansund have not yet arrived.) Gradients rather steep over the south and southeast of England; Barometer rising in Denmark, the Netherlands and the north of our islands, but falling elsewhere.
TEMPERATURE	Highest 72° at Biarritz, 68° at Lyons, 67° at Berlin, Nice, Lisbon, 66° at Munich and Perpignan, and 65° at Rochefort. Lowest 53° at Stromsøya and Wick, 54° at Lumburgh Head, 55° at Barrow in Furness and Holyhead, and 56° at Shields, York, Malin Head and Liverpool.
WIND	Light and variable over Scotland and the North of Ireland, S.E. in France, calm in Germany, S.W. or S.W. elsewhere; strong in force over the English Channel, and also in Sweden.
WEATHER	Rainy at most of the English stations and also in the north of Sweden, but fair or fine elsewhere. Showers fell yesterday in nearly all parts of western Europe, and thunderstorms occurred locally over the United Kingdom.
SEA	Rough at Pembroke and rather rough in the English Channel, but moderate to smooth elsewhere.

PROBABLE CHANGES IN SYSTEM NOW PREVALENT

The depression noticed over Scotland yesterday has almost entirely dispersed, but a new disturbance has appeared over the St. Georges Channel, while a larger system has also advanced to the north of Scandinavia.

The depression over the St. Georges Channel seems likely to advance in a northeasterly direction across England, and a further increase of wind is probable on the Channel coast.

FORECASTS

for the 24 hours ending at NOON on 26TH JULY 1888.

DISTRICTS.	FORECASTS.	DISTRICTS.	FORECASTS.
0 { SCOTLAND NORTH	{ Light breezes, chiefly E ^{ly} ; fair to unsettled and showery.	6 { SCOTLAND WEST	S ^{ly} and SE ^{ly} winds, light; fair to dull and some rain.
1 { SCOTLAND EAST		7 { ENGLAND N. W.	SE ^{ly} winds, freshening; rainy to fair.
2 { ENGLAND N. E.	{ S ^{ly} to SW ^{ly} winds, increasing in force; squally and rainy to fair.	† 8 { ENGLAND S. W.	Same as No 5
3 { ENGLAND EAST		9 { IRELAND NORTH	NE ^{ly} winds, light; unsettled, some showers.
4 { MIDLAND COUNTIES	{ SW ^{ly} winds, strong to a gale; squally and rainy to fair.	10 { IRELAND SOUTH	W ^{ly} to NW ^{ly} winds, moderate, fair generally, but some showers.
† 5 { ENGLAND SOUTH		WARNINGS	The south cone has been hoisted this morning in district 5 and part of 8.

Note.—The South Cone, point downwards (†) means that gales, or strong winds, are probable, at first from the Southward (from S.E. round by S. to N.W.) Should it appear likely that a gale beginning from between W. and N.W. is likely to clear towards N. or N.E., the North Cone is hoisted in preference to the South Cone.

The North Cone, point upwards (†) means that gales, or strong winds, are probable, at first from the Northward (from N.W. round by N. to S.E.) Should it appear likely that a gale beginning from between E. and S.E. is likely to clear towards S. or S.W., the South Cone is hoisted in preference to the North Cone.

YESTERDAY'S 2 P.M. REPORTS.

	B.	Dry.	Wet.	Wind.	Wes.	Sea.		Bar.	Dry.	Wet.	Wind.	Wes.	Sea.		
Skudesnaes ...	29.52	57	57	S	4	r	3	Holyhead ...	29.57	61	57	SSW	6	bcng	6
Sumburgh Head ...	29.41	58	56	Z	0	c	4	Valencia ...	29.57	63	60	SW	6	og	6
Sornoway ...	29.39	59	56	NE	2	c	2	Scilly ...	29.75	64	59	SW	5	c	6
Aberdeen ...	29.41	62	56	SSE	2	bc	1	Jersey ...	29.90	65	60	SSW	5	c	4
Shields ...	29.45	63	57	SW	4	op	2	Dungeness ...	29.82	63	60	SW	6	c	5
Ardrossan ...	29.41	60	57	S	3	c	2	London ...	29.76	68	59	SW	5	cq	*
Malin Head ...	29.43	58	56	W	2	c	1	Yarmouth ...	29.69	67	59	SW	5	bcq	4
Mullaghmore ...	29.46	58	56	WSW	3	cp	2	Rocheport ...	30.08	71	63	WSW	5	bc	2
Belmullet ...	29.46	59	56	WSW	3	o	*								

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

The reports for yesterday morning showed that pressure varied from 30.0 ins. and more, over the whole of southern, southeastern and eastern Europe to a little below 29.4 ins. in a low-pressure area which lay over Scotland and the north of Ireland. The gradients were moderate in the northwest, slight elsewhere, and were favourable for W. and SW. winds over the British Islands and North Sea, and for S. winds over the Baltic and Germany. The winds reported agreed in direction with these conditions, and were strong in force in the north of France, the Channel and the southern parts of the United Kingdom; and the weather was still somewhat showery in most districts, but especially over the United Kingdom. Temperature showed no important change in our Islands but had risen rather decidedly over southern, northern and eastern Europe, while it had fallen in the north east of France and in Algeria. The highest morning readings were 82° at Laghouat (Algeria) 81° at Baghara; 80° at Malta, 78° at Trieste, 76° at Constantinople, 75° at Barcelona; 74° at Leningrad, 73° at Naples and Livourne, and 71° at Nice and Perpignan; the lowest were 48° at Bodo, 52° at Sumburgh Head and Sornoway, 53° at Christiansund. At Archangel the reading was 58°. Showery weather, with bright intervals, continued prevalent over the British Islands and France during the day, and thunderstorms occurred in many places.

EXPLANATION OF COLUMNS GIVEN ON PAGE 1.

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

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

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

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

DAILY WEATHER REPORT.

for *Thursday, 26th July* 1888.
 Issued by the Meteorological Office, 116, Victoria Street, London. R.H. SCOTT, Secretary.

STATIONS.	+ YESTERDAY EVENING.						8 A.M. TO DAY.										PAST 24 HOURS.		
	Barometer at 32° F. and Sea Level.	Temp. in Shade.	WIND.			Weather.	BAROMETER.		SHADE TEMP.			WIND.			Sea 0 to 9.)	Weather.	SHADE TEMP.		Amount of Rainfall.
			Dir.	Force (0 to 12.)			Reading at 32° F. and Sea Level.	Difference from 8 a.m. yesterday.	Dry.	Wet.	Difference from 8 a.m. yesterday.	Dir.	Force (0 to 12.)				Max.	Min.	
SCANDINAVIA.																			
Haparanda ...	29.50	58	S	4		bc	29.43	-0.05	57	57	0	S	2		*		64	46	0.16
Hörnösand ...	29.44	56	S	6		c	29.65	+0.16	56	50	-2	WNW	4		*		61	54	0.16
Stockholm ...	29.72	58	S	2		0	29.78	+0.05	65	59	+2	SSW	2		*		68	54	0.51
Wisby ...	29.84	61	SW	4		c	29.82	-0.04	65	59	+2	E	2		*		70	55	-
Bodö ...	29.86	51	N	2		0	29.56	+0.12	45	44	-8	WSW	2		1		54	?	0.04
Christiansund...	29.63	49	WNW	1		f	29.65	+0.25	50	49	+1	NE	2		2		59	46	0.63
Skudesnaes ...	29.65	59	S	6		0	29.51	-0.07	59	57	+1	ESE	2		4		61	?	-
Christiania Fjord (Fjorder)	29.65	58	WSW	5		bc	29.64	+0.05	58	57	0	ESE	3		2		61	55	0.08
Skagen (The Scaw)	29.74	56	2	0		bc	29.59	-0.10	58	58	+1	S	3		1		66	55	0.16
Fanö ...	29.71	61	S	4		r	29.56	-0.23	61	60	-3	SW	4		*		64	59	0.16
BRITISH ISLANDS.																			
Sumburgh Head	29.56	53	E	1		0	29.53	+0.02	52	51	-2	NE	3		3		55	50	-
Stornoway ...	29.53	56	NE	4		b	29.54	+0.04	53	52	0	NE	3		3		57	48	-
Wick ...	29.52	52	2	0		f	29.53	+0.02	54	53	+1	NE	1		1		59	49	0.01
Nairn ...	29.49	59	ESE	1		0	29.52	+0.03	54	52	-5	E	1		1		62	51	0.02
Aberdeen...	29.51	59	SSE	2		b	29.51	-0.02	54	52	-7	WNW	2		09		64	51	-
Leith ...	29.45	60	E	1		c	29.52	-0.01	55	54	-3	NW	1		09		64	51	0.10
Shields ...	29.44	56	2	0		r	29.51	-0.08	53	52	-3	W	2		0		56	52	1.37
Spurn Head ...	29.54	60	SSW	5		0	29.66	-0.12	59	58	+2	SW	5		60		62	54	0.09
York ...	29.49	62	S	2		0	29.54	-0.10	60	56	+4	WSW	3		*		65	55	0.16
Loughborough	29.54	61	S	3		r	29.63	-0.02	61	57	+4	WSW	3		60		63	53	0.02
Ardsrossan ...	29.46	62	2	0		c	29.52	+0.01	57	55	0	WNW	3		2		65	54	0.05
Malin Head ...	29.49	56	N	1		om	29.56	+0.07	56	53	0	W	1		1		60	54	-
Mullaghmore ...	29.50	59	WNW	4		c/p	29.59	+0.10	54	52	-3	WSW	4		2		64	52	0.08
Belmullet ...	29.50	57	WNW	2		0	29.60	+0.11	56	53	-3	W	5		*		62	52	0.03
Donaghadee ...	29.47	64	NNE	3		bc	29.57	+0.05	56	55	-2	NNE	3		2		66	53	0.03
Barrow-in-Furness	29.41	61	E	2		c	29.53	-0.03	56	55	+1	SW	3		*		62	54	0.53
Liverpool (Bidston)	29.44	60	SW	4		c	29.59	+0.05	58	56	+2	WSW	2		3		68	55	0.13
Holyhead ...	29.49	56	WNW	3		c	29.60	+0.10	58	56	+3	WSW	3		3		60	53	0.22
Parsonstown ...	29.51	60	2	0		c	29.66	+0.15	57	51	-2	SW	3		60		65	51	0.07
Valencia ...	29.58	61	WSW	4		c	29.73	+0.18	55	53	-5	SW	2		60		62	49	0.04
Roche's Point...	29.56	62	W	5		bc	29.70	+0.21	56	52	-2	WSW	3		4		63	51	0.20
Pembroke ...	29.57	57	SW	3		bc	29.70	+0.20	55	53	-3	W	3		60		59	54	0.18
Scilly ...	29.62	60	WNW	3		c	29.78	+0.24	59	55	-2	W	5		5		63	55	0.08
Prawle Point ...	29.60	57	SSW	5		r	29.76	+0.11	57	56	0	W	5		60		59	53	0.09
Jersey ...	29.68	65	SW	5		cp	29.88	+0.10	61	58	0	WSW	5		4		67	57	0.42
Hurst Castle ...	29.64	60	W	8		0	29.77	+0.04	60	69	+1	WSW	7		5		61	56	0.49
Dungeness ...	29.67	59	S	2		r	29.77	-0.04	60	58	0	W	5		4		63	56	0.10
London ...	29.62	60	SSW	1		0	29.74	-0.02	60	56	0	SW	2		*		62	54	0.31
Oxford ...	29.58	60	SSW	3		0	29.70	+0.01	59	58	+1	WSW	3		*		61	54	0.11
Cambridge ...	29.57	61	S	2		r	29.68	-0.04	61	57	+2	SW	2		*		64	51	0.03
Yarmouth ...	29.64	60	SSW	3		r	29.65	-0.14	61	57	0	W	4		60		62	55	0.12
Cuxhaven ...	29.89	60	SSW	1		bc	29.69	-0.21	64	62	+4	WSW	3		60		68	60	0.30
Berlin ...	29.89	72	2	0		b	29.75	-0.26	67	64	0	WSW	4		*		81	63	-
Wiesbaden ...	*	*	*	*		*	29.86	-0.21	66	64	+2	2	0		*		79	61	0.35
Munich ...	29.97	70	NE	2		0	30.00	-0.13	65	61	-1	SW	4		*		79	59	-
FRANCE & NETHERLANDS.																			
The Helder ...	29.65	62	E	1		0	29.63	-0.21	61	60	-1	SW	4		3		68	61	0.6
Brussels ...	*	*	*	*		*	29.79	-0.12	62	58	-1	WSW	5		*		74	61	0.63
Cape Gris Nez...	29.68	61	S	4		r	29.73	-0.10	58	57	-3	SW	7		5		72	57	0.39
Paris ...	29.75	73	SW	3		0	29.86	-0.07	62	58	+2	W	3		*		80	59	0.04
Brest ...	29.74	59	SW	7		f	29.93	+0.16	59	56	-2	SW	5		5		68	48	0.39
Lorient ...	29.76	63	SW	8		0	29.95	+0.15	60	59	-3	W	7		7		64	57	0.20
Rochefort ...	29.96	69	W	4		0	30.08	+0.17	64	60	-1	W	5		60		81	57	-
Belfort ...	29.88	74	W	1		0	29.99	-0.05	62	60	-11	W	1		0		82	58	0.28
Lyons ...	29.88	77	S	5		bc	30.03	+0.02	62	61	-6	SE	1		*		81	60	0.79
Nice ...	30.06	69	SW	3		b	30.02	-0.07	65	61	-2	NE	4		1		77	61	-
Perpignan ...	29.90	72	NE	3		c	30.01	-0.02	72	64	+6	W	3		0		78	65	-
Biarritz ...	29.91	72	WSW	5		0	30.11	+0.24	64	60	-8	SW	4		60		86	63	0.08
PENINSULAR.																			
Corunna ...	*	*	*	*		*													
Lisbon ...	30.06	71	WNW	4		b	30.11	+0.06	65	62	-2	N	5		60		75	61	-

WEATHER CHARTS

for 8 a.m. on

Thursday, 26th July,

1888.

BAROMETER, WIND & SEA.

(Explanation of Map)

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

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

→ = forces above 10; →→ = forces 8 to 10;
→→ = forces 5 to 7; → = forces 1 to 4;

○ = dead calm.

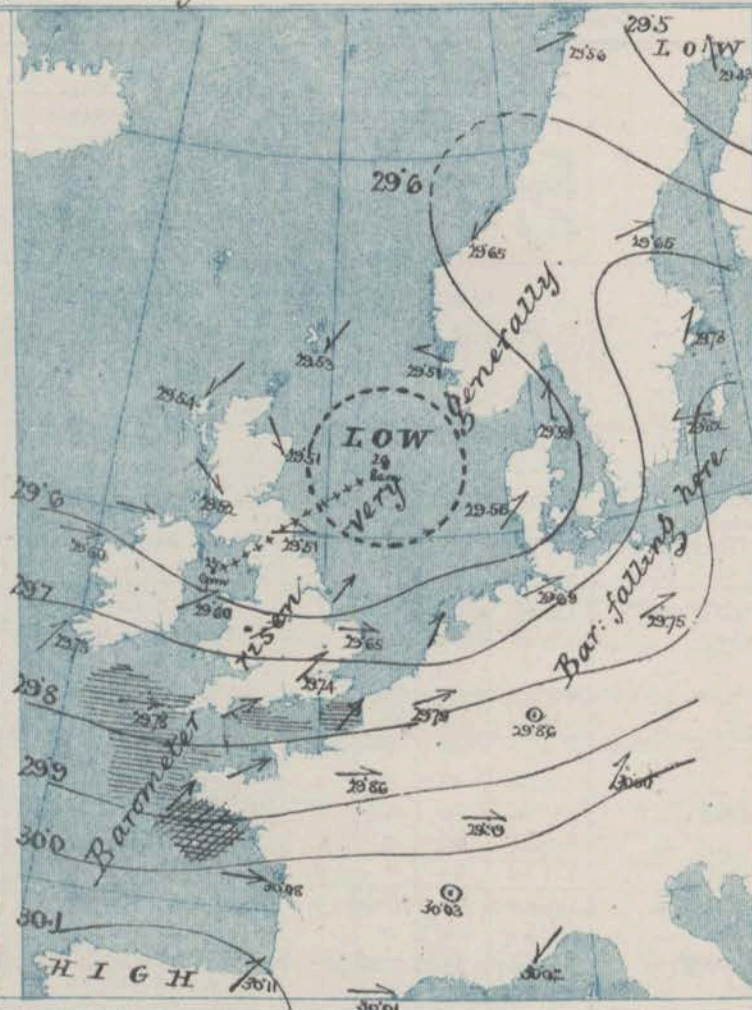
Sea Disturbance — where considerable, is shown thus.

■ = Rough. ■ = High.

MEAN HEIGHT of the BAROMETER

at 8 a.m. for the month of July
During the 15 Years 1871—1885.

STATIONS.	MEAN READINGS.
Sumburgh Head	29.794
Stornoway	29.797
Wick	29.810
Nairn	29.821
Aberdeen	29.831
Leith	29.850
Shields	29.876
York	29.910
Loughborough	29.936
Ardrossan	29.862
Donaghadee	29.881
Holyhead	29.918
Liverpool	29.913
Parsonstown	29.921
Valencia	29.939
Roche's Point	29.938
Pembroke	29.942
Scilly	29.984
Jersey	30.009
Hurst Castle	29.974
Dover	29.970
LONDON	29.967
Oxford	29.953
Cambridge	29.947
Yarmouth	29.943



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

Temperature — Isotherms are drawn for each 10° Changes since previous morning are stated in words.

Weather is shown by Letters of the Beaufort Scale.

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

MEANS OF TEMPERATURE IN SHADE. AND RAINFALL. for the month of July.

STATIONS.	TEMPERATURE.				RAINFALL. (Inches)
	Daily Max.	Daily Min.	at 8 a.m.		
			Dry.	Wet.	
Sumburgh Head	57.8	48.3	53.6	52.0	2.09
Stornoway	60.2	49.5	56.0	54.0	3.02
Wick	62.2	49.2	56.1	53.8	2.25
Nairn	61.7	51.4	57.2	53.6	2.57
Aberdeen	64.4	51.1	58.0	54.4	2.74
Leith	67.1	51.7	58.6	55.3	2.84
Shields	64.4	52.9	58.6	55.4	2.63
York	68.5	52.1	59.4	56.2	2.57
Loughborough	72.1	53.0	62.0	58.2	2.84
Ardrossan	63.9	53.2	57.5	54.8	2.91
Donaghadee	63.1	51.6	57.4	55.6	2.67
Holyhead	63.9	54.7	58.2	55.9	2.32
Liverpool	66.1	54.4	59.6	55.9	2.99
Parsonstown	66.4	51.9	58.3	54.8	3.01
Valencia	64.1	53.6	58.7	56.3	3.91
Roche's Point	66.7	53.3	58.7	55.8	3.16
Pembroke	62.9	55.0	58.1	55.9	2.31
Scilly	64.5	56.3	60.1	58.0	2.29
Jersey	68.8	56.3	62.2	59.2	2.21
Hurst Castle	67.9	55.7	61.3	58.8	2.15
Dover	67.2	56.9	62.6	58.8	1.82
LONDON	73.0	54.1	62.3	58.1	2.17
Oxford	69.9	53.7	60.2	56.8	2.51
Cambridge	72.3	52.4	61.4	57.9	2.30
Yarmouth	66.8	55.2	61.2	58.1	2.68

NOTE — The Temperature means are for the 15 years 1871—85, the Rainfall means are mainly those for the 20 years 1866—85



GENERAL SITUATION AT 8 A.M.

PRESSURE	Highest, 30.1 in. and upwards, over Spain and the southwest of France. Lowest, 29.5 in. and less, in a large depression lying over the northern part of the North Sea, and also in another disturbance over the north of Sweden. Barometer rather steep over the south of our islands and the north of France, but slight elsewhere. Barometer falling in Denmark, the south of Scandinavia and north Germany, but rising elsewhere.
TEMPERATURE	Highest, 72° at Perpignan, 67° at Berlin, 66° at Wiesbaden, 65° at Stockholm, 64° at Munich, and 63° at Nice, and 62° at Copenhagen, 61° at Hamburg, and 60° at London. Lowest, 45° at Bodø, 50° at Christiansund, 52° at Sumburgh Head, 53° at Stornoway and Shields, and 54° at Wick, Kilm, and Aberdeen.
WIND	Light SE ³ in the south of Norway, NE ⁴ in the north of Scotland, and NW ⁴ at Aberdeen and Leith. SW ² or W ² elsewhere; moderate or fresh in force generally, but strong at some of the southern stations.
WEATHER	Fair over the greater part of our islands and France, but showery in some places. Dull in Germany and the Netherlands; foggy at Bodø and Christiansund; rainy at Haparanda, St. Petersburg, Riga, and Moscow. Rain fell generally yesterday, and thunderstorms occurred at some of our northern stations.
SEA	High at Lorient, and rather rough at many of the Channel stations, but moderate to smooth elsewhere.

PROBABLE CHANGES IN SYSTEM NOW PREVALENT



The shallow depression which lay yesterday morning off our northwest coast and the well marked secondary disturbances over the St. George Channel have united and travelled in a northeasterly direction to the North Sea.

The wind is, however, inclined to back again in the south of Ireland, and further shallow disturbances will probably advance over us from the westward occasioning a continuance of showery weather in most districts.

FORECASTS

For the 24 hours ending at NOON on 27th JULY 1888.

DISTRICTS.	FORECASTS.	DISTRICTS.	FORECASTS.
0 { SCOTLAND NORTH	NE ² winds, light or moderate; fair generally, but some showers.	6 { SCOTLAND WEST	NW ² to SW ² winds, light; fair to showery.
1 { SCOTLAND EAST	NW ² to variable breezes; fair generally.	7 { ENGLAND N.W.	Same as No 2.
2 { ENGLAND N.E.	SW ² winds, moderate or fresh; changeable, some showers, thunder locally.	8 { ENGLAND S.W.	W ² and SW ² winds, fresh; changeable, some showers.
3 { ENGLAND EAST	Same as No 5.	9 { IRELAND NORTH	----- D° ----- D° ----- D°
4 { MIDLAND COUNTIES	Same as No 2.	10 { IRELAND SOUTH	----- D° ----- D° ----- D°
5 { ENGLAND SOUTH	SW ² winds, fresh; fair generally, but some showers, possibly thunder.	WARNINGS	The south cone has been lowered this morning in district 5 and part of 8.

Note.—The **South Cone**, point downwards () means that gales, or strong winds, are probable, at first from the Southward (from S.E. round by S. to N.W.) Should it appear likely that a gale beginning from between W. and N.W. is likely to veer towards N. or N.E. the North Cone is hoisted in preference to the South Cone.
The **North Cone**, point upwards () means that gales, or strong winds, are probable, at first from the Northward (from N.W. round by N. to S.E.) Should it appear likely that a gale beginning from between E. and S.E. is likely to veer towards S. or S.W., the South Cone is hoisted in preference to the North Cone.

YESTERDAY'S 2 P.M. REPORTS.

	Bar.	Dry.	Wet.	Wind.	Wen.	Sea.		Bar.	Dry.	Wet.	Wind.	Wen.	Sea.
Skudesnaes ...	29.64	61	57	SSW 6	0	4	Holyhead ...	29.64	57	56	SSW 3	0 m	2
Sumburgh Head ...	29.55	54	53	E 1	0	3	Valencia ...	29.57	57	58	W 3	C	4
Stornoway ...	29.53	57	55	NE 4	60	3	Scilly ...	29.57	62	60	NW 2	C	4
Aberdeen ...	29.52	63	58	SSW 2	0	1	Jersey ...	29.70	62	60	S 5	0	4
Shields ...	29.51	54	54	ESE 2	0	2	Dungeness ...	29.74	62	60	SW 3	0	2
Ardrossan ...	29.48	63	58	S 1	0	1	London ...	29.69	62	60	S 5	0	*
Malin Head ...	29.49	58	57	SSW 1	0	0	Yarmouth ...	29.71	61	59	S 4	0	4
Mullaghmore ...	29.49	61	58	NW 1	0	1	Rocheport ...	29.91	78	73	W 4	0	2
Belmullet ...	29.52	59	55	NNE 2	0	*							

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

The reports for yesterday morning showed a slight increase of pressure over the Continent generally, but a decrease over the western parts of the British Isles and the Bay of Biscay. The morning readings varied from 30.1 ins: and more over South-eastern Europe to rather below 29.5 ins: both over the western parts of the British Isles and the northern half of Scandinavia. SW^{ly} (S to W) winds were consequently prevalent, and were strong over the Gulf of Bothnia and in the English Channel, light over Central and Eastern Europe; in some localities the winds were variable, and in the extreme northwest of our Islands there was a decided breeze from NE. The weather was still showery, especially, in the neighbourhood of the British Isles and the general appearance unsettled. Temperature had risen, and varied from 80° and more on the southern side of the Mediterranean to between 50° and 60° over northwestern and northern Europe. The highest individual values were 91° at Biskra (Algeria), 83° at Cagliari, 81° at Trieste, 79° at Brindisi, 77° at Malta and Palermo, 76° at Constantinople, 74° at Lissina, 73° at Naples and Bilbao and 72° at Biarritz; the lowest were 49° at Christiansund, 53° at Bodö and Stornoway, 56° at Shields and 57° at Haparanda.

There was no important change during the day.

EXPLANATION OF COLUMNS GIVEN ON PAGE 1.

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

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

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

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

DAILY WEATHER REPORT.

for *Friday, 27th July* 1888.
 Issued by the Meteorological Office, 116, Victoria Street, London. R. H. SCOTT, Secretary.

Issued by the Meteorological Office, 116, Victoria Street, London. R. H. SCOTT, Secretary.																	
STATIONS.	† YESTERDAY EVENING.					8 A.M. TO DAY.										PAST 24 HOURS.	
	Barometer at 32° F. and Sea Level.	Temp. in Shade.	WIND.		Weather.	BAROMETER.		SHADE TEMP.			WIND.		Weather.	Sea. (0 to 9.)	SHADE TEMP.		Amount of Rainfall.
			Dir.	Force. (0 to 12.)		Reading at 32° F. and Sea Level.	Difference from 8 a.m. yesterday.	Dry.	Wet.	Difference from 8 a.m. yesterday.	Dir.	Force. (0 to 12.)			Max.	Min.	
SCANDINAVIA.																	
Haparanda ..	29.66	55	SW	2	bc	29.07	+ 2.4	59	58	+ 2	E	2	c	*	63	46	-
Hernösand ...	29.71	58	S	2	o	29.52	- 1.3	56	56	0	SE	0	c	*	68	50	-
Stockholm ...	29.62	61	SE	2	o	29.63	- 1.5	62	59	- 3	W	2	o	*	72	54	0.16
Wisby ...	29.68	61	S	4	bc	29.76	- 0.6	61	59	- 4	WSW	4	b	*	75	57	0.04
Bodö ...	29.68	46	Z	0	bc	29.57	+ 0.1	53	48	+ 5	NNE	2	c	1	43	-	-
Christiansund...	29.54	51	N	4	o	29.49	- 1.6	49	48	- 1	NNE	4	f	2	55	43	0.12
Skudesnaes ...	29.45	58	SSE	4	o	29.46	- 0.5	60	57	+ 1	Z	0	o	3	?	?	-
Christiania Fjord (Færdar)	?	58	NW	5	o	29.49	- 1.5	57	55	- 1	SW	9	T	6	59	55	0.63
Skagen (The Scaw)	29.59	58	WNW	2	c	29.61	+ 0.2	57	55	- 1	SW	3	o	3	66	54	0.28
Fanö ...	29.69	58	SW	6	b	29.75	+ 1.9	62	57	+ 1	WSW	4	b	*	64	59	-
BRITISH ISLANDS.																	
Sumburgh Head	29.53	51	NE	5	o	29.65	+ 1.2	49	47	- 3	N	3	c	4	55	44	-
Stornoway ...	29.60	53	NE	4	o	29.73	+ 1.9	52	50	- 1	NE	4	o	4	57	45	-
Wick ...	29.55	53	N	2	o	29.75	+ 2.2	55	50	+ 1	NE	2	c	2	56	41	-
Nairn ...	29.58	56	E	1	o	29.73	+ 2.1	52	50	- 2	E	1	o	1	58	48	0.02
Aberdeen...	29.58	58	NW	2	c	29.75	+ 2.4	53	50	- 1	NW	1	o	1	59	50	-
Leith ...	29.59	57	NW	1	T	29.73	+ 2.1	62	56	+ 7	W	1	b	*	63	49	0.15
Shields ...	29.61	59	W	4	o	29.74	+ 2.3	58	54	+ 5	W	3	bc	2	61	51	0.58
Spurn Head ...	29.69	61	W	5	b	29.82	+ 2.6	57	56	- 2	SW	3	b	2	65	50	0.21
York ...	29.69	61	WSW	4	bc	29.80	+ 2.6	58	54	- 2	WSW	2	b	*	67	47	0.02
Loughborough	29.75	65	W	4	b	29.84	+ 2.1	60	56	- 1	SE	2	o	*	69	46	0.01
Ardrrossan ...	29.61	59	NW	3	o	29.72	+ 2.0	56	54	- 1	ENE	1	sm	1	63	54	-
Malin Head ...	29.61	62	WNW	1	b	29.69	+ 1.3	57	55	+ 1	E	2	bc	0	62	49	0.02
Mullaghmore ...	29.65	59	WSW	2	bcp	29.67	+ 0.8	55	53	+ 1	E	4	c	2	61	48	0.26
Belmullet ...	29.65	54	WSW	3	bc	29.64	+ 0.4	55	52	- 1	E	2	o	*	64	51	0.03
Donaghadee ...	29.66	56	E	2	bc	29.72	+ 1.5	56	54	- 0	SE	3	bc	1	62	53	0.07
Barrow-in-Furness	29.68	58	SW	5	bc	29.74	+ 2.1	56	54	0	SW	3	bc	*	59	54	0.04
Liverpool (Bidston)	29.72	61	WSW	4	b	29.77	+ 1.8	60	55	+ 2	SE	2	bc	3	63	51	0.04
Holyhead ...	29.73	56	SW	4	b	29.73	+ 1.3	56	55	- 2	SE	3	T	2	63	51	0.02
Parsonstown ...	29.71	60	SSW	2	bc	29.62	- 0.4	54	52	- 3	ENE	1	T	*	62	49	0.20
Valencia ...	29.76	60	SW	4	c	29.85	- 3.8	59	57	+ 4	NE	5	o	6	62	53	0.50
Roche's Point...	29.75	60	WSW	4	b	29.44	- 2.6	57	57	+ 1	SE	7	T	5	62	53	0.75
Pembroke ...	29.80	57	WSW	3	b	29.64	- 0.6	56	56	+ 1	SE	5	agp	4	60	54	0.04
Seilly ...	29.87	60	SW	3	c	29.49	- 2.9	58	57	- 1	SSE	8	T	6	64	54	0.63
Prawle Point ...	29.90	57	SW	5	c	29.77	+ 0.1	55	55	- 2	SSE	5	og	4	61	54	0.01
Jersey ...	29.96	62	W	4	c	29.86	- 0.2	62	59	+ 1	SSE	4	cpm	4	64	57	0.01
Harst Castle ...	29.87	61	WSW	6	bc	29.85	+ 0.8	58	58	- 2	SSW	4	cr	3	63	56	-
Dungeness ...	29.84	60	W	6	bc	29.95	+ 1.8	59	57	- 1	W	4	c	4	63	56	-
London ...	29.82	66	W	4	bc	29.88	+ 1.4	59	56	- 1	SW	2	o	*	70	52	0.03
Oxford ...	29.84	58	SW	2	b	29.85	+ 1.5	57	55	- 2	S	2	ov	*	67	49	0.02
Cambridge ...	29.77	62	WSW	2	c	29.86	+ 1.8	60	56	- 1	SSW	1	bc	*	69	45	0.04
Yarmouth ...	29.74	65	WNW	2	cp	29.88	+ 2.3	60	55	- 1	W	3	b	2	66	50	0.26
Cuxhaven ...	29.80	59	WSW	4	o	29.90	+ 2.1	60	58	- 4	SW	3	o	*	68	57	0.08
Berlin ...	29.86	66	SW	1	bc	30.00	+ 2.5	64	60	- 3	SW	1	b	*	81	57	0.16
Wiesbaden ...	*	*	*	*	*	30.03	+ 1.7	60	56	- 6	Z	0	b	*	75	52	-
Munich ...	30.12	63	Z	0	c	30.10	+ 1.0	63	60	- 2	NE	4	c	*	70	57	0.24
FRANCE & NETHERLANDS.																	
The Helder ...	29.77	61	SW	5	bc	29.87	+ 2.4	60	57	- 1	WSW	3	c	3	64	59	-
Brussels ...	*	*	*	*	*	29.96	+ 1.7	60	57	- 2	SW	3	o	*	68	57	-
Cape Gris Nez...	29.86	59	SW	7	b	29.94	+ 2.1	58	57	0	SW	4	c	3	63	55	-
Paris ...	30.01	61	SW	1	o	30.01	+ 1.5	57	55	- 5	S	1	o	*	74	53	0.08
Brest ...	30.02	59	SW	5	c	?	?	59	58	+ 2	SSW	7	o	5	68	46	0.04
Lorient ...	30.03	62	WSW	4	o	29.86	- 0.9	62	61	+ 2	S	5	o	5	64	59	-
Rocheport ...	30.12	66	W	5	c	30.00	- 0.8	61	59	- 3	SE	5	o	2	72	54	-
Belfort ...	30.07	68	WSW	1	b	30.06	+ 0.7	65	59	+ 3	SW	1	b	*	72	46	-
Lyons ...	30.04	70	N	1	b	30.03	- 0.0	65	59	+ 3	WSW	1	bc	*	77	55	-
Nice ...	29.96	71	SW	1	o	29.94	- 0.5	70	66	+ 5	W	1	b	o	81	63	-
Perpignan ...	30.03	76	NW	4	o	30.01	- 0.0	70	64	- 2	W	1	o	*	82	58	-
Biarritz ...	30.06	69	NNE	4	b	29.92	- 1.9	66	63	+ 2	S	3	b	1	75	59	-
Corunna ...	*	*	*	*	*	29.91	- 1.5	68	65	0	S	8	o	4	73	61	-
Lisbon ...	30.10	67	NW	5	b	30.14	+ 0.3	66	64	+ 1	WSW	4	bc	6	79	63	-
PENINSULA.																	

For Explanation of Columns, see p. 4.

‡ Received too late for insertion in Charts on p. 2.

WEATHER CHARTS

for 8 a.m. on *Friday, 27th July, 1888.*

BAROMETER, WIND & SEA.

(Explanation of Map)

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

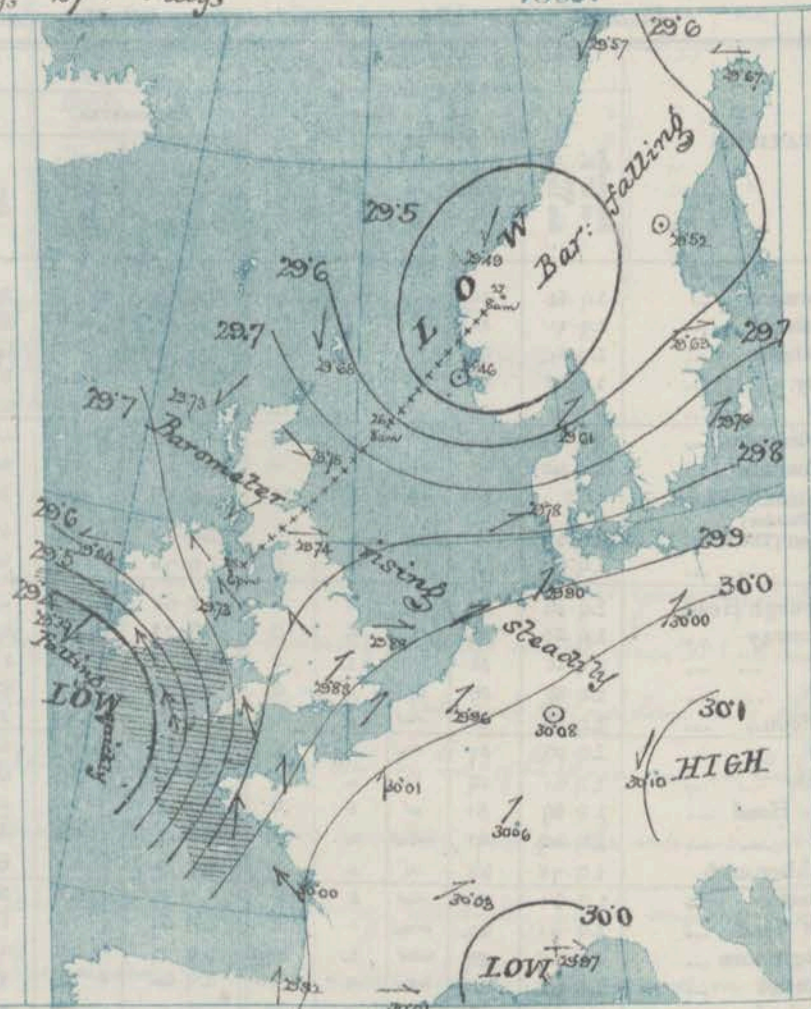
Sea Disturbance — where considerable, is shown thus.

— = Rough. — = High.

MEAN HEIGHT of the BAROMETER

at 8 a.m. for the month of July
 During the 15 Years 1871—1885.

STATIONS.	MEAN READINGS.
Sumburgh Head	29.794
Stornoway	29.797
Wick	29.810
Nairn	29.821
Aberdeen	29.831
Leith	29.850
Shields	29.876
York	29.910
Loughborough	29.936
Ardrossan	29.862
Donaghadee	29.881
Holyhead	29.918
Liverpool	29.913
Parsonstown	29.921
Valencia	29.939
Roche's Point	29.938
Pembroke	29.942
Scilly	29.984
Jersey	30.009
Hurst Castle	29.974
Dover	29.970
LONDON	29.967
Oxford	29.953
Cambridge	29.947
Yarmouth	29.943



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

Temperature — Isotherms are drawn for each 10° changes since previous morning are stated in words.

Weather — is shown by Letters of the Beaufort Scale.
Rainfall — A dotted line separates the districts in which rain has fallen from those where there has been none. Falls of 0.5 in. or more, are quoted in figures.

MEANS OF TEMPERATURE IN SHADE.

AND RAINFALL.
 for the month of July.

STATIONS.	TEMPERATURE.				RAINFALL. (Inches)
	Daily Max.	Daily Min.	at 8 a.m. Dry	Wet	
Sumburgh Head	57.8	48.3	53.6	52.0	2.09
Stornoway	60.2	49.5	56.0	54.0	3.02
Wick	62.2	49.2	56.1	53.8	2.25
Nairn	64.7	51.4	57.2	53.6	2.57
Aberdeen	64.4	51.1	58.0	54.4	2.74
Leith	67.1	51.7	58.6	55.3	2.84
Shields	64.4	52.9	58.6	55.4	2.63
York	68.5	52.1	59.4	56.2	2.57
Loughborough	72.1	53.0	62.0	58.2	2.34
Ardrossan	63.9	53.2	57.5	54.8	2.91
Donaghadee	63.1	51.6	57.4	55.6	2.67
Holyhead	63.9	54.7	58.2	55.9	2.32
Liverpool	66.1	54.4	59.6	55.9	2.99
Parsonstown	66.4	51.9	58.3	54.8	3.01
Valencia	64.1	53.6	58.7	56.3	3.91
Roche's Point	66.7	53.3	58.7	55.8	3.16
Pembroke	62.9	55.0	58.1	55.9	2.31
Scilly	64.5	56.3	60.1	58.0	2.29
Jersey	68.8	56.3	62.2	59.2	2.21
Hurst Castle	67.9	55.7	61.3	58.8	2.15
Dover	67.2	56.9	62.6	58.8	1.82
LONDON	73.0	54.1	62.3	58.1	2.17
Oxford	69.9	53.7	60.2	56.8	2.51
Cambridge	72.3	52.4	61.4	57.9	2.30
Yarmouth	60.8	55.2	61.2	58.1	2.68

NOTE — The Temperature means are for the 15 years 1871—85, the Rainfall means are mainly those for the 10 years 1866—85.



GENERAL SITUATION AT 8 A.M.

PRESSURE

Highest, 30.1 in. and upwards over Portugal, and also over South Germany.
 Lowest, 29.4 in. and less, in a deep depression lying off our southwest coast, 29.5 in. and less, in a large and somewhat shallow depression lying over the south of Norway.
 Gradients steep at the mouth of the Channel, but moderate or slight elsewhere.
 Barometer falling rapidly on our southwest coast and slightly in Scandinavia, but rising elsewhere.

TEMPERATURE

Highest, 70° at Perpignan and Nice, 66° at Biarritz and Lisbon, 65° at Belfort and Lyons, and 64° at Berlin.
 Lowest, 49° at Christiansand and Lumburg Head, 52° at Pomorie and Aium, and 53° at Rode.

WIND

Moderate N.E. in the west of Norway and north of Scotland, light E. in the north of Ireland.
 Strong from S.E. or S. on our southwest coast, light from S. in the east of France.
 Moderate from S.W. or W. over the east and south of England and the eastern shore of the North Sea.

WEATHER

Rainy on our southwest coast and also in the south of Norway, but fair or fine in most other localities.
 Showers fell generally yesterday, and heavy thunderstorms occurred in the east of England.

SEA

Rough in the southwest, moderate to smooth elsewhere.

PROBABLE CHANGES IN SYSTEM NOW PREVALENT

The depression off our southwest coast will probably advance in a northeasterly direction, and gales or strong winds from S. veering to W. are likely on all our southern coast, with heavy rain in many places.

FORECASTS

for the 24 hours ending at NOON on 28th JULY 1888.

DISTRICTS.		FORECASTS.	
0	{ SCOTLAND NORTH		NE ^{ly} and E ^{ly} winds, fresh; fair to showery.
1	{ SCOTLAND EAST		E ^{ly} winds, freshening; fair to unsettled and some rain.
2	{ ENGLAND N.E.		SW ^{ly} to SE ^{ly} winds, freshening considerably; fair to squally and rainy.
3	{ ENGLAND EAST	}	S ^{ly} to W ^{ly} strong winds and gales; squally and rainy to fair. Thunder locally.
4	{ MIDLAND COUNTIES		
5	{ ENGLAND SOUTH		

DISTRICTS.		FORECASTS.	
6	{ SCOTLAND WEST		Same as No 1.
7	{ ENGLAND N.W.	†	SE ^{ly} to E ^{ly} winds, increasing in force; squally, rainy.
8	{ ENGLAND S.W.	†	Same as No 3 to 5.
9	{ IRELAND NORTH	†	E ^{ly} and NE ^{ly} winds, freshening; unsettled, showery.
10	{ IRELAND SOUTH	†	SE ^{ly} winds, shifting to the N nd ; squally and rainy to fair.
WARNINGS		The squall cone has been hoisted this morning in districts 3, 5, 8 to 10 and part of 7.	

Note.—The **South Cone**, point downwards (↓) means that gales, or strong winds, are probable, at first from the Southward (from S.E. round by S. to N.W.) Should it appear likely that a gale beginning from between W. and N.W. is likely to veer towards N. or N.E., the North Cone is hoisted in preference to the South Cone.

The **North Cone**, point upwards (↑) means that gales, or strong winds, are probable, at first from the Northward (from N.W. round by N. to S.E.) Should it appear likely that a gale beginning from between E. and S.E. is likely to veer towards S. or S.W., the South Cone is hoisted in preference to the North Cone.

YESTERDAY'S 2 P.M. REPORTS.

	Bar.	Dry.	Wet.	Wind.	Wea.	Sea.		Bar.	Dry.	Wet.	Wind.	Wea.	Sea.
Skudesnaes ...	29.47	59	57	ESE 1	T	3	Holyhead ...	29.71	62	56	SW 3	b	3
Sumburgh Head ...	29.53	54	52	NE 4	O	4	Valencia ...	29.77	62	57	SW 4	bv	4
Stornoway ...	29.59	56	55	NE 4	O	4	Scilly ...	29.86	62	57	WSW 4	bv	4
Aberdeen ...	29.55	58	54	NW 3	O	1	Jersey ...	29.95	63	59	W 5	bv	4
Shields ...	29.59	55	54	E 1	T	2	Dungeness ...	29.80	62	58	W 6	bv	5
Ardrossan ...	29.57	62	57	NW 4	C	3	London ...	29.78	68	61	W 4	c	*
Malin Head ...	29.61	57	54	WSW 2	O	1	Yarmouth ...	29.72	59	57	W 4	rll	3
Mullaghmore ...	29.64	58	54	WSW 5	Op	3	Rochefort ...	30.13	70	62	W 5	bv	2
Belmullet ...	29.64	60	55	W 2	C	*							

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

The reports for yesterday morning showed that pressure varied from 30.1 ins: and more both over the Spanish Peninsula and Southern Russia to about 29.5 ins: over Northern Europe, and also in a depression, the centre of which lay over the North Sea. Thus, while the winds were in most places blowing from between S. and W., those in Scotland and the adjacent islands were NE^{ly}. The weather was still of a changeable showery character over the western and northwestern countries, with thunderstorms at times, but showed a tendency to improve temporarily over England and France as a whole. Over eastern and southeastern Europe it was fine and bright. Temperature showed no important change, and ranged from 80° and more over central Spain and the southwestern shores of the Mediterranean to somewhat below 50° in the north of Norway. The highest individual values were 88° at Oriskra and La Calle (Algeria), 82° at Madrid, 79° at Brindisi and Trieste, 78° at Pesaro, 77° at Palermo and Constantinople, 76° at Barcelona, 75° at Lissa, and 72° at Perpignan; the lowest were 45° at Bodö, 50° at Christiansund, 52° at Sumburgh H. and 53° at Stornoway.

During the day there was no important change.

EXPLANATION OF COLUMNS GIVEN ON PAGE 1.

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

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

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

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for Saturday, 28th July

1888.

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

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STATIONS.	+ YESTERDAY EVENING.						8 A.M. TO DAY.										PAST 24 HOURS.		
	Barometer at 32° F. and Sea Level.	Temp. in Shade.	WIND.		Weather.	BAROMETER.		SHADE TEMP.			WIND.		Weather.	Sea. 0 to 12.)	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.		
SCANDINAVIA.																			
Haparanda ..	29.41	54	SW	5	T	29.41	- .26	56	56	- 3	S	6	0	*	64	45	1.06		
Hernösand ...	29.47	57	SSW	2	C	29.56	+ .04	55	51	- 4	NW	6	0	*	61	54	0.79		
Stockholm ...	29.60	57	Z	0	O	29.65	+ .02	59	54	- 5	SW	2	0	*	65	55	0.04		
Wisby ...	29.78	59	S	4	b	29.79	+ .03	58	55	- 3	W	4	6	*	70	57			
Bodö ...	29.47	51	SW	2	O	29.50	- .04	47	45	- 2	WSW	4	0	2	57	7			
Christiansund...	29.67	48	SW	2	f	29.76	+ .27	47	45	- 2	W	4	0	2	43	43	0.28		
Skudesnaes ...	29.71	52	NW	6	O	29.73	+ .27	51	48	- 3	NW	4	0	3	?	?			
Christiania Fjord (Færdar)	29.55	58	SSW	2	m	29.63	+ .14	58	56	+ 1	SS	2	6	4	59	54	0.04		
Skagen (The Scaw)	29.66	55	WSW	7	O	29.66	+ .05	56	53	- 3	WSW	2	0	1	59	52	0.08		
Fanö ...	29.82	56	WSW	2	C	29.71	- .04	58	54	- 4	ENE	4	C	*	64	48			
BRITISH ISLANDS.																			
Sumburgh Head	29.78	49	NE	1	O	29.82	+ .17	50	47	+ 1	N.	2	C	2	52	41			
Stornoway ...	29.78	51	NE	5	O	29.81	+ .08	51	49	- 2	NE	5	0	4	55	47			
Wick ...	29.81	53	NE	2	C	29.83	+ .08	50	47	- 3	E	4	C	3	57	41	0.03		
Nairn ...	29.76	54	E	2	C	29.78	+ .05	50	49	- 1	E	1	2	2	58	45	0.01		
Aberdeen...	29.81	52	E	2	C	29.79	+ .04	52	49	- 3	NE	3	C	2	58	44			
Leith ...	29.73	54	E	3	C	29.73	0.00	52	51	- 1	NE	4	0	*	63	51	0.03		
Shields ...	29.71	55	E	2	O	29.66	- .08	53	52	- 1	NE	2	0	3	62	52	0.03		
Spurn Head ...	29.70	58	ENE	4	C	29.52	- .30	54	54	0	ENE	5	0	4	65	42	0.38		
York ...	29.70	60	E	1	O	29.59	- .21	54	53	- 1	ENE	1	0	*	67	51	0.54		
Loughborough	29.66	60	E	1	T	29.51	- .33	56	55	- 1	ENE	3	0	2	66	56	0.25		
Ardrossan ...	29.65	59	ENE	3	om	29.69	- .03	51	50	- 1	NE	4	0	2	64	50	0.25		
Malin Head ...	29.68	63	E	3	om	29.72	+ .03	49	49	0	ENE	3	0	3	57	49	1.02		
Mullaghmore ...	29.61	52	ENE	6	T	29.71	+ .04	54	52	- 2	NW	4	0	3	58	52	0.84		
Belmullet ...	29.56	54	NE	4	T	29.78	+ .14	57	54	+ 3	NW	2	0	*	58	50	0.22		
Donaghadee ...	29.62	53	ENE	3	T	29.65	- .07	52	52	0	E	3	0	1	58	52	1.44		
Barrow-in-Furness	29.61	59	NE	3	T	29.58	- .16	54	53	- 1	N	2	0	*	63	53	0.28		
Liverpool (Bidston)	29.59	57	ENE	4	T	29.59	- .15	54	53	- 1	ENE	3	0	3	63	54	0.37		
Holyhead ...	29.51	56	E	4	om	29.57	- .16	56	55	- 1	ENE	4	0	4	58	55	0.43		
Parsonstown ...	29.45	56	ENE	1	T	29.71	+ .09	54	51	- 3	NW	3	0	*	57	52	1.01		
Valencia ...	29.54	56	NW	6	om	29.85	+ .50	57	56	- 1	NW	4	0	5	63	53	0.06		
Roche's Point...	29.36	59	SW	2	P	29.75	+ .31	58	54	+ 4	NW	5	0	4	61	53	0.65		
Pembroke ...	29.37	56	ENE	5	T	29.64	- .00	54	54	0	NW	5	0	4	57	54	0.40		
Scilly ...	29.31	59	W	4	T	29.79	+ .30	59	55	+ 4	NW	8	0	6	61	55	0.31		
Prawle Point ...	29.39	56	ENE	6	T	29.67	- .10	55	55	0	NW	7	0	6	57	53	0.35		
Jersey ...	29.53	64	S	5	om	29.70	- .16	57	56	- 1	NW	8	0	6	64	56	0.40		
Hurst Castle ...	29.54	59	ENE	6	om	29.54	- .31	61	60	+ 1	NW	5	0	4	64	57	0.79		
Dungeness ...	29.68	60	ENE	4	C	29.40	- .55	59	58	- 1	WSW	4	0	3	65	57	0.81		
London ...	29.65	60	ENE	2	om	29.44	- .44	61	59	+ 2	NW	2	0	*	69	57	0.33		
Oxford ...	29.53	57	SE	4	T	29.45	- .37	59	58	+ 1	NW	3	0	*	65	56	0.36		
Cambridge ...	29.66	60	S	1	T	29.44	- .42	63	62	+ 1	N	1	0	*	67	56	0.31		
Yarmouth ...	29.76	59	SE	4	C	29.43	- .45	60	59	- 1	ENE	3	0	3	62	56	0.54		
Cuxhaven ...	29.94	60	NW	2	b	29.70	- .20	63	61	+ 2	ENE	4	0	*	64	58	0.36		
Berlin ...	29.90	70	Z	0	C	29.73	- .27	66	62	+ 4	Z	0	0	*	75	61			
Wiesbaden ...	*	*	*	*	*	29.73	- .30	66	60	+ 6	SW	4	0	*	73	57	0.08		
Munich ...	29.97	65	NE	1	b	29.92	- .18	62	60	- 2	W	2	0	*	72	57	0.08		
FRANCE & NETHERLANDS.																			
The Helder ...	29.81	61	E	1	C	29.48	- .39	62	60	+ 2	ENE	1	0	2	68	59			
Brussels ...	*	*	*	*	*														
Cape Gris Nez...	29.68	67	S	3	C	29.40	- .54	58	58	0	SW	8	0	6	72	57	0.55		
Paris ...	29.73	71	S	3	O	29.72	- .29	59	57	+ 2	SW	7	0	*	74	?	0.08		
Brest ...	29.52	59	WSW	8	O	29.92	?	57	56	- 1	NW	5	0	7	68	46	0.24		
Lorient ...	29.60	60	WSW	9	O	29.88	+ .02	59	58	- 1	WSW	9	0	8	64	48	0.16		
Rochefort ...	29.89	60	SW	8	O	30.05	+ .05	64	59	+ 5	W	9	0	4	51	57			
Belfort ...	29.92	71	SW	1	b	29.90	- .09	66	59	+ 7	W	4	0	*	77	55	0.16		
Lyons ...	29.88	72	S	3	O	29.98	- .05	65	56	+ 9	WSW	3	0	*	78	61	0.08		
Nice ...	29.96	69	?	3	C	29.85	- .12	71	64	+ 7	ENE	1	0	1	79	64			
Perpignan ...	29.88	75	NE	3	b	30.03	+ .02	68	59	+ 9	NW	5	0	*	81	65			
Biarritz ...	29.92	74	NW	5	C	30.19	+ .27	64	58	- 6	N	8	0	4	79	63			
PENINSULA.																			
Coranna ...	*	*	*	*	*														
Lisbon ...	30.17	71	W	3	O	30.20	+ .06	63	58	- 5	NW	4	0	2	77	59			

For Explanation of Columns, see p. 4.

† Received too late for insertion in Charts on p. 2.

WEATHER CHARTS

for 8 a.m. on Saturday, 28th July, 1888.

BAROMETER, WIND & SEA.

(Explanation of Map)

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

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

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

Sea Disturbance — where considerable is shown thus.

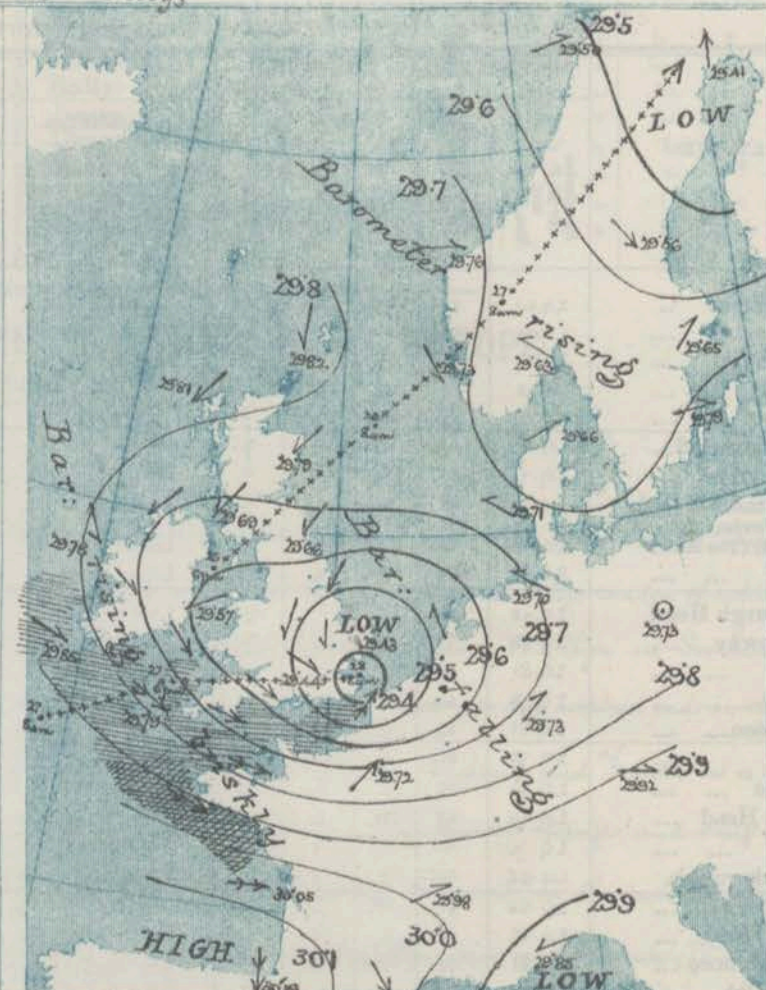
— Rough. — High.

MEAN HEIGHT of the BAROMETER

at 8 a.m. for the month of July

During the 15 Years 1871—1885.

STATIONS.	MEAN READINGS.
	in.
Sumburg Head	29.791
Stornoway	29.797
Wick	29.810
Nairn	29.821
Aberdeen	29.831
Leith	29.850
Shields	29.876
York	29.910
Loughborough	29.936
Ardrossan	29.862
Donaghadee	29.881
Holyhead	29.918
Liverpool	29.913
Parsonstown	29.921
Valencia	29.939
Roche's Point	29.938
Pembroke	29.942
Scilly	29.984
Jersey	30.000
Hurst Castle	29.974
Dover	29.970
LONDON	29.967
Oxford	29.953
Cambridge	29.947
Yarmouth	29.943



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

Temperature — Isotherms are drawn for each 10° changes since previous morning are stated in words.

Weather is shown by Letters of the Beaufort Scale.

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

MEANS OF TEMPERATURE IN SHADE.

AND RAINFALL.

for the month of July

STATIONS.	TEMPERATURE.				RAINFALL. (Inches)
	Daily Max.	Daily Min.	at 8 a.m.		
			Dry.	Wet.	
Sumburgh Head	57.8	48.3	53.6	52.0	2.09
Stornoway	60.2	49.5	56.0	54.0	3.02
Wick	62.2	49.2	56.1	53.8	2.25
Nairn	64.7	51.4	57.2	53.6	2.57
Aberdeen	64.4	51.1	58.0	54.4	2.74
Leith	67.1	51.7	58.6	55.3	2.84
Shields	64.4	52.9	58.6	55.4	2.63
York	68.5	52.1	59.4	56.2	2.57
Loughborough	72.1	53.0	62.0	58.2	2.34
Ardrossan	63.9	53.2	57.5	54.8	2.91
Donaghadee	63.1	51.6	57.4	55.6	2.67
Holyhead	63.9	54.7	58.2	55.9	2.32
Liverpool	66.1	54.4	59.6	55.9	2.99
Parsonstown	66.4	51.9	58.3	54.8	3.01
Valencia	64.1	53.6	58.7	56.3	3.91
Roche's Point	66.7	53.3	58.7	55.8	3.16
Pembroke	62.9	55.0	58.1	55.9	2.31
Scilly	64.5	56.3	60.1	58.0	2.29
Jersey	68.8	56.3	62.2	59.2	3.21
Hurst Castle	67.9	55.7	61.3	58.8	2.15
Dover	67.2	56.9	62.6	58.8	1.82
LONDON	73.0	54.1	62.3	58.1	2.17
Oxford	69.9	53.7	60.2	56.8	2.51
Cambridge	72.3	52.4	61.4	57.9	2.30
Yarmouth	66.8	55.2	61.2	58.1	2.68

NOTE — The Temperature means are for the 15 years 1871—85, the Rainfall means are mainly those for the 20 years 1866—85



GENERAL SITUATION AT 8 A.M.

PRESSURE

Highest, 30.2 ins. at Lisbon, 30.1 ins. and upwards, over the Iberian Peninsula and the southwest of France.
 Lowest, 29.4 ins. and less, in a depression lying near the mouth of the Thames; 29.5 ins. and less, over the north of Scandinavia.
 Gradients rather steep over the Channel and France. Barometer falling in Denmark, Germany, and the Netherlands, but rising elsewhere.

TEMPERATURE

Highest, 71° at Nice, 68° at Perpignan, 66° at Berlin, 65° at Lyons, and 64° at Marseilles, Rochefort and Biarritz.
 Lowest, 47° at Boos and Christiansund, 48° at Malin, 50° at Larnough Head, Wick, and Kilmory.

WIND

Moderate from NE. over the northern part of our Islands.
 Strong to gale from W. or NW. over the Channel and Bay of Biscay.
 Moderate SW. over Germany and the east of France, SE. in Denmark; NW. or W. in the west of Norway.
 Fine in the west and south of France, as well as at some of our southwestern stations.

WEATHER

Cloudy or overcast elsewhere, with rain in many places.

Heavy rain fell yesterday in the west and south of our Islands, the largest amount being 1.4 ins. at Donaghadee, 1.0 ins. at Malin, 0.9 ins. at Mullaghmore, and 0.9 ins. at Mullaghmore.

SEA

High off the northwest of France, and rough in the western part of the Channel, but moderate to smooth elsewhere.

PROBABLE CHANGES IN SYSTEM NOW PREVALENT

The depression which was approaching our southwest coast yesterday has advanced eastward across the south of England and will probably move away shortly to North Germany.

In its rear some improvement in the weather will probably take ^{place} over our southern districts, but with areas of high pressure lying both to the northward and southward of our Islands no very decided or permanent change is likely.

FORECASTS

for the 24 hours ending at NOON on 29th JULY 1883.

DISTRICTS.

FORECASTS.

0	SCOTLAND NORTH	NE ^{ly} winds, freshening; cloudy, some rain possibly thunder.
1	SCOTLAND EAST	
2	ENGLAND N.E.	NE ^{ly} and N ^{ly} winds, moderate or fresh; unsettled, rainy, thunder locally.
3	ENGLAND EAST	Wind shifting to the N ^{ly} ; changeable, showery, thunder locally.
4	MIDLAND COUNTIES	NW ^{ly} winds, moderate; changeable; showery, thunder locally.
5	ENGLAND SOUTH	W ^{ly} and NW ^{ly} winds, freshening; changeable, showery, thunder locally.

DISTRICTS.

FORECASTS.

6	SCOTLAND WEST	NE ^{ly} and N ^{ly} winds, moderate or fresh; unsettled, some rain.
7	ENGLAND N.W.	
8	ENGLAND S.W.	W ^{ly} or NW ^{ly} gales and strong winds; changeable, some showers.
9	IRELAND NORTH	Same as Nos 6 and 7.
10	IRELAND SOUTH	NW ^{ly} and W ^{ly} winds, moderate or fresh; changeable, some showers.

WARNINGS

The signals have been lowered this morning in districts 3, 10, and part of 7, but the south cone is still flying in districts 3, 5, and 8, and the north cone in districts 0 and part 1.

Note.—The South Cone, point downwards (↓) means that gales, or strong winds, are probable, at first from the Southward (from S.E. round by S. to N.W.) Should it appear likely that a gale beginning from between W. and N.W. is likely to veer towards N. or N.E., the North Cone is hoisted in preference to the South Cone.
 The North Cone, point upwards (↑) means that gales, or strong winds, are probable, at first from the Northward (from N.W. round by N. to S.E.) Should it appear likely that a gale beginning from between E. and S.E. is likely to veer towards S. or S.W., the South Cone is hoisted in preference to the North Cone.

DAILY WEATHER REPORT

YESTERDAY'S 2 P.M. REPORTS.

	Bar.	Dry.	Wet.	Wind.	Wes.	Sea.		Bar.	Dry.	Wet.	Wind.	Wes.	Sea.
Skudesnaes ...	29.59	56	56	NW 4	0	3	Holyhead ...	29.60	57	56	E 4	0	3
Sumburgh Head ...	29.74	51	56	N 2	0	4	Valencia ...	29.37	61	59	N 5	0	5
Stornoway ...	29.77	54	51	NE 5	0	4	Scilly ...	29.29	59	59	S 5	1	6
Aberdeen ...	29.81	54	50	ESE 2	0	2	Jersey ...	29.67	62	60	SE 5	0	4
Shields ...	29.76	61	67	E 3	60	3	Dungeness ...	29.83	64	60	SW 2	60	2
Ardrossan ...	29.69	62	57	W 3	0	2	London ...	29.76	67	59	SE 4	0	*
Malin Head ...	29.68	55	53	E 3	0	1	Yarmouth ...	29.82	62	59	SE 5	60	4
Mullaghmore ...	29.63	54	53	E 4	0	3	Rocheport ...	29.91	75	69	SW 5	0	2
Belmullet ...	29.62	56	53	E 3	0	*							

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

The reports for yesterday morning showed that the distribution of pressure over Northern and Western Europe was of a very complex character. Readings varied from between 30.0 ins. and 30.1 ins. over southern, central and eastern Europe, and from rather above 29.7 ins. to the northward of the British Isles, to rather below 29.4 ins. in a depression lying off the south of Ireland, to 29.5 ins. and less in another depression lying over the south of Norway. These two depressions lay in a broad band of somewhat low pressure, which stretched from the Atlantic across the British Isles, the North Sea, Scandinavia, and the Baltic to northern Europe and the White Sea. Thus, over the greater part of Europe the wind was variable from between S. and W., and the weather was changeable, and in many places showery, while in the most northern part of our Islands and Norway the wind was N² to E², and the weather cold and cloudy. Temperature had not undergone any great change, except in the south of Austria where it had risen considerably; it was, however, somewhat unsteady in most places. The highest readings reported were 88° at Algiers (Algeria), 84° at Legna, 83° at Cagliari, 82° at Trieste, 81° at Palermo, 78° at Livorno, 77° at Malta and Constantinople, 76° at Odessa, and 70° at Florence, Nice, and Perpignan; the lowest were 49° at Christiansund and Sumburgh Head, 52° at Stornoway and Malin, and 53° at Bodo and Aberdeen.

Later in the day the depression mentioned above moved northwards, and large quantities of rain fell over the British Isles—especially in the west and south.

EXPLANATION OF COLUMNS GIVEN ON PAGE 1.

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

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

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

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

DAILY WEATHER REPORT.

for Sunday 29th July 1888.
 Issued by the Meteorological Office, 116, Victoria Street, London. R. H. SCOTT, Secretary.

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.		
SCANDINAVIA.																			
Haparanda ..	29.77	55	W	2	bc	29.71	+0.06	54	53	-2	SW	2	6	*		63	46	0.16	
Hernösand ...	29.77	53	W	0	bc	29.89	+0.08	53	47	-2	N	2	6	*		66	52	—	
Stockholm ...	29.75	56	W	0	C	29.82	+0.07	61	53	+2	SE	4	0	*		64	55	—	
Wisby ...	29.77	59	W	2	bc	29.62	-0.17	63	60	+5	ENE	4	0	*		79	55	—	
Bodö ...	29.70	45	WNW	4	bc	29.81	0	47	45	0	WNW	4	0	2		47	45	0.12	
Christiansund...	29.80	52	NW	1	bc	29.75	-0.05	48	46	+1	SE	1	6	1		52	41	—	
Skudesnaes ...	29.67	52	WNW	6	C	29.67	-0.06	57	54	+6	WNW	1	0	2		59	51	—	
Christiania Fjord (Færd)	29.69	59	ENE	2	bc	29.68	+0.05	57	54	-1	NW	5	0	1		59	53	—	
Skagen (The Seaw)	29.66	57	NE	1	C	29.60	-0.06	60	57	+4	SE	1	0	2		68	54	—	
Fanö ...	29.54	60	NW	4	C	29.50	-0.21	62	61	+4	NNE	2	0	*		68	57	—	
BRITISH ISLANDS.																			
Sumburgh Head	29.84	50	NW	2	C	29.81	-0.01	45	44	-5	NW	2	0	2		54	42	—	
Stornoway ..	29.84	50	NE	5	0	29.82	+0.01	48	48	-2	SE	4	0	4		53	45	0.08	
Wick ...	29.85	51	E	3	0	29.85	+0.02	48	46	-2	E	3	0	2		52	45	—	
Nairn ...	29.82	51	E	1	0	29.81	+0.03	49	47	-1	E	1	0	2		53	45	0.08	
Aberdeen...	29.82	51	NE	3	0	29.82	+0.03	51	47	-1	NW	2	0	3		57	47	0.02	
Leith ...	29.80	52	NE	1	bc	29.79	+0.06	49	48	-3	E	2	0	2		53	48	0.14	
Shields ...	29.74	53	N	2	bc	29.79	+0.05	53	51	0	N	2	0	3		55	48	0.10	
Spurn Head ...	29.67	53	N	5	bc	29.78	+0.26	53	52	-1	N	2	0	3		54	50	0.36	
York ...	29.72	54	NW	1	bc	29.79	+0.20	54	51	0	NW	1	0	*		55	49	0.48	
Loughborough	29.72	55	N	2	0	29.79	+0.28	52	51	-4	ENE	1	0	*		57	50	0.06	
Ardrossan ...	29.76	52	NW	3	bc	29.75	+0.06	50	49	-1	NE	2	0	1		52	48	0.28	
Malin Head ...	29.79	50	NE	2	0	29.78	+0.01	51	51	+2	E	3	0	2		51	49	0.02	
Mullaghmore ...	29.78	57	WNW	1	C	29.72	+0.01	55	52	+1	SW	1	0	1		59	48	0.05	
Bolnullet ...	29.77	57	N	2	C	29.72	-0.06	54	52	-3	N	2	0	*		59	47	—	
Donaghadee ...	29.77	53	NE	3	bc	29.75	+0.10	53	53	+1	SE	3	0	2		56	51	1.08	
GERMANY.																			
Barrow-in-Furness	29.71	54	NE	2	bc	29.76	+0.18	52	51	-2	NE	1	0	2		57	50	0.14	
Liverpool (Bidston)	29.70	52	E	2	bc	29.77	+0.18	55	53	+1	SE	1	0	2		57	51	0.28	
Holyhead ...	29.78	54	N	5	bc	29.76	+0.19	54	53	-2	SW	1	0	2		57	50	0.01	
Parsonstown ...	29.79	60	W	0	C	29.74	+0.03	52	51	-2	W	0	0	*		66	46	—	
Valencia ...	29.87	61	W	4	bc	29.71	-0.14	57	54	0	E	2	0	*		64	50	0.05	
Roche's Point...	29.88	61	NW	3	bc	29.74	-0.01	55	54	-3	SE	1	0	2		63	52	0.12	
Pembroke ...	29.79	58	W	4	bc	29.77	+0.12	56	54	+2	SW	3	0	2		57	54	—	
Scilly ...	29.92	58	W	5	C	29.75	-0.04	55	54	-4	SE	5	0	1		60	51	0.28	
Prawle Point ...	29.87	58	W	6	C	29.84	+0.17	58	58	-2	W	3	0	2		62	51	0.15	
Jersey ...	29.95	60	W	6	bc	29.90	+0.20	57	55	0	SW	4	0	4		61	54	0.02	
FRANCE & NETHERLANDS.																			
Hurst Castle ...	29.80	61	WNW	7	bc	29.85	+0.01	56	55	-5	WNW	4	0	4		65	54	0.01	
Dungeness ...	29.66	61	W	5	bc	29.80	+0.40	58	55	-1	W	4	0	4		67	53	0.25	
London ...	29.70	58	WNW	8	od	29.81	+0.37	57	54	-4	SW	2	0	*		65	53	0.08	
Oxford ...	29.77	56	W	3	0	29.80	+0.22	55	54	-4	SW	2	0	2		61	51	0.14	
Cambridge ...	29.67	58	NW	2	0	29.79	+0.35	55	54	-8	W	0	0	*		65	51	0.01	
Yarmouth ...	29.54	58	NW	4	C	29.77	+0.34	54	52	-6	NW	2	0	3		62	51	0.08	
Cuxhaven ...	29.57	62	WNW	1	bc	29.54	-0.16	66	64	+3	WNW	1	0	*		67	59	0.72	
Berlin ...	29.64	67	W	0	bc	29.60	-0.18	61	59	-5	WNW	2	0	*		79	59	0.24	
Wiesbaden ...	*	*	*	*	*	*	*	*	*	*	*	*	*	*		*	*	*	
Munich ...	29.77	58	SW	3	bc	29.84	-0.08	60	55	-2	W	4	0	*		66	53	—	
PENINSULA.																			
The Helder ...	29.51	61	NW	1	C	29.70	+0.22	55	53	-7	WNW	4	0	3		63	53	0.24	
Brussels ...	*	*	*	*	*	29.84	0	57	56	0	WNW	4	0	*		63	57	0.47	
Cape Gris Nez...	29.64	59	WNW	8	0	29.85	+0.45	57	56	-1	W	5	0	5		63	55	0.28	
Paris ...	29.91	60	N	7	0	29.98	+0.26	54	52	-5	WNW	1	0	*		61	50	0.04	
Brest ...	29.09	59	NW	4	0	29.89	-0.08	55	54	-2	SW	5	0	4		69	46	0.09	
Lorient ...	29.08	60	WNW	7	bc	29.94	+0.06	57	57	-2	SW	4	0	5		61	53	0.08	
Rochefort ...	29.15	64	WNW	3	C	29.06	+0.01	62	61	-2	SW	5	0	2		70	53	—	
Belfort ...	29.95	64	W	3	bc	29.02	+0.12	59	54	-7	W	4	0	*		68	53	—	
Lyons ...	29.02	69	W	3	bc	29.07	+0.09	57	52	-8	N	3	0	*		74	52	—	
Nice ...	29.70	74	SE	3	bc	29.86	+0.01	67	64	-4	W	2	0	6		74	59	—	
Perpignan ...	29.07	70	NW	4	bc	29.05	+0.02	66	58	-2	NW	3	0	*		73	55	—	
Biarritz ...	29.20	67	NW	4	bc	29.04	-0.15	62	55	-2	SE	3	0	3		75	54	—	
Corunna ...	*	*	*	*	*	29.04	-0.21	66	63	+1	W	3	0	4		72	57	—	
Lisbon ...	29.14	68	WNW	5	bc	29.13	-0.07	64	59	+1	N	5	0	2		77	59	—	

For Explanation of Columns, see p. 4.

† Received too late for insertion in Charts on p. 2

WEATHER CHARTS

for 8 a.m. on

Sunday, 29th July.

1888.

BAROMETER, WIND & SEA.

(Explanation of Map)

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

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

→ — forces above 10; → — forces 8 to 10;
→ — forces 5 to 7; → — forces 1 to 4;

⊙ — dead calm.

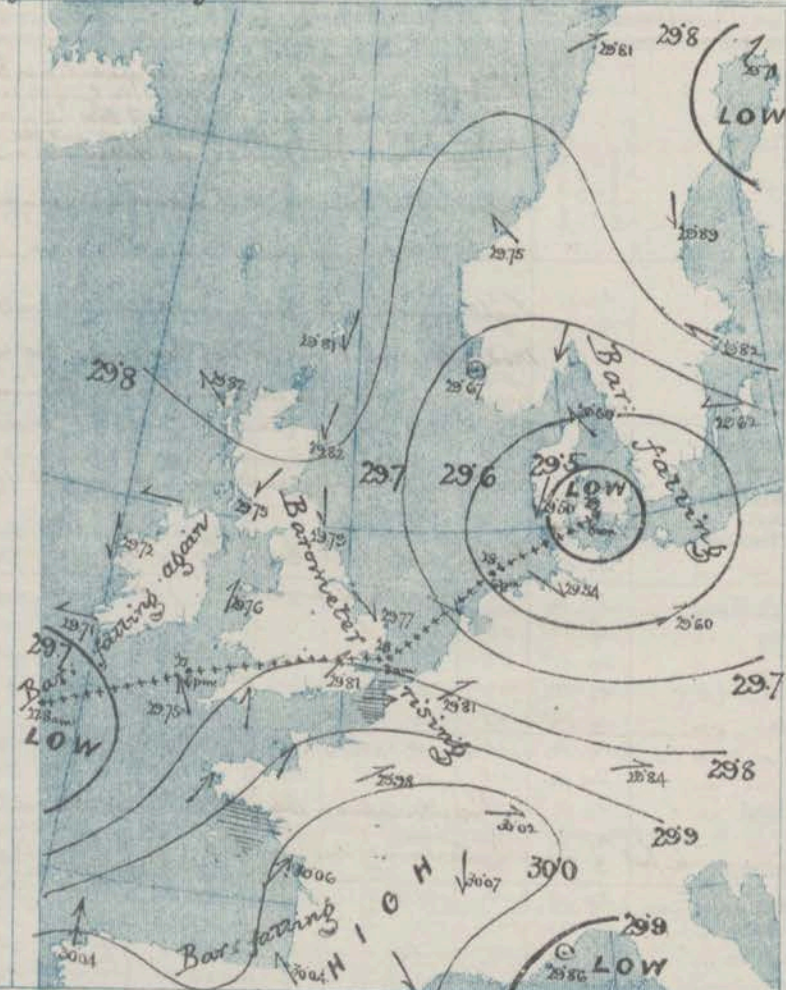
Sea Disturbance — where considerable is shown thus.

■ — Rough ■ — High.

MEAN HEIGHT of the BAROMETER

at 8 a.m. for the month of July.
During the 15 Years 1871 — 1885.

STATIONS.	MEAN READINGS.
Sumburgh Head	29.794
Stornoway	29.797
Wick	29.810
Nairn	29.821
Aberdeen	29.831
Leith	29.850
Shields	29.876
York	29.910
Loughborough	29.936
Ardrossan	29.862
Donaghadee	29.881
Holyhead	29.918
Liverpool	29.913
Parsonstown	29.921
Valencia	29.939
Roches Point	29.938
Pembroke	29.942
Scilly	29.994
Jersey	30.000
Hurst Castle	29.974
Dover	29.970
LONDON	29.967
Oxford	29.953
Cambridge	29.947
Yarmouth	29.943



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

Temperature — Isotherms are drawn for each 10° changes since previous morning are stated in words.

Weather — is shown by Letters of the Beaufort Scale.

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

MEANS OF TEMPERATURE IN SHADE.

AND RAINFALL.

for the month of July.

STATIONS.	TEMPERATURE.				RAINFALL. (Inches.)
	Daily Max.	Daily Min.	at 8 a.m.		
			Dry.	Wet.	
Sumburgh Head	57.8	48.3	53.6	52.0	2.09
Stornoway	60.2	49.5	56.0	54.0	3.02
Wick	62.2	49.2	56.1	53.8	2.25
Nairn	64.7	51.4	57.2	53.6	2.57
Aberdeen	64.4	51.1	58.0	54.4	2.74
Leith	67.1	51.7	58.6	55.3	2.84
Shields	64.4	52.9	58.6	55.4	2.63
York	68.5	52.1	59.4	56.2	2.67
Loughborough	72.1	53.0	62.0	58.2	3.84
Ardrossau	63.9	53.2	57.5	54.8	2.91
Donaghadee	63.1	51.6	57.4	55.6	2.67
Holyhead	63.9	54.7	58.2	55.9	2.32
Liverpool	66.1	54.4	59.6	55.9	2.09
Parsonstown	66.4	51.9	58.3	54.8	3.01
Valencia	64.1	53.6	58.7	56.3	3.91
Roches Point	66.7	53.3	58.7	55.6	3.16
Pembroke	62.9	55.0	58.1	55.9	2.31
Scilly	64.5	56.3	60.1	58.0	2.29
Jersey	68.8	56.3	62.2	59.2	2.21
Hurst Castle	67.9	55.7	61.3	58.8	2.15
Dover	67.2	56.9	62.6	58.8	1.82
LONDON	73.0	54.1	62.3	58.1	2.17
Oxford	69.9	53.7	60.2	56.8	2.51
Cambridge	72.3	52.4	61.4	57.9	2.30
Yarmouth	66.8	55.2	61.2	58.1	2.68

NOTE — The Temperature means are for the 15 years 1871-85, the Rainfall means are mainly those for the 10 years 1866-85.



GENERAL SITUATION AT 8 A.M.

PRESSURE	Highest 30.13 ins. at Lisbon, 30.0 ins. and upwards over the greater part of France and the Iberian Peninsula; 29.8 ins. and upwards to the Hy. our Islands. Lowest 29.5 ins. and less, in a depression lying over the south of Denmark, 29.4 ins. and less, in another system lying off our southwest coast; 29.8 ins. and less, in a third lying over the north of Sweden. Gradients moderate over the Netherlands and the northern parts of France and Germany, but slight elsewhere. Barometer rising over England, the Netherlands and the north of Scandinavia, but falling elsewhere.
TEMPERATURE	Highest 67° at Nice, 66° at Copenhagen, Corunna and Lisbon, 63° at Wisby, and 62° at Rochefort and Biarritz. Lowest 45° at Sunninghoad, 47° at Bodo, 48° at Christiansund, Stormoway and Wick, and 49° at Naissa.
WIND	Light or moderate from E or NE over the south of Scandinavia and the northern parts of our Islands. Moderate from W or SW near Germany, the north of France and the south of England. Fresh from the S at the mouth of the Channel; strong to a gale from the same quarter at Corunna. Fine in the south of France and fair at several of the Scandinavian stations.
WEATHER	Cloudy or overcast in most other localities, with rain in Scotland the south of Ireland, and the northwest of France. Rain fell generally yesterday, the largest amounts being 1.5 ins. at Dohaghadco, 0.7 ins. at Copenhagen, and 0.5 ins. at Liverpool and Brussels.
SEA	Rather rough at Cape Gris Nez and moderate in the Channel as well as at Stormoway, but slight or smooth elsewhere.

PROBABLE CHANGES IN SYSTEM NOW PREVALENT

The depression which lay near the mouth of the Thames yesterday has travelled away to the south of Denmark, but a new disturbance has appeared off our southwest coast. The conditions therefore remain very unsettled.

FORECASTS

for the 24 hours ending at NOON on 30TH JULY 1888.

DISTRICTS.

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

FORECASTS.

NONE ISSUED

DISTRICTS.

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

WARNINGS

FORECASTS.

NONE ISSUED

NONE ISSUED

Note.—The South Cone, point downwards (∇) means that gales, or strong winds, are probable, at first from the Southward (from S.E. round by S. to N.W.) Should it appear likely that a gale beginning from between W. and N.W. is likely to veer towards N. or N.E., the North Cone is hoisted in preference to the South Cone.
The North Cone, point upwards (∆) means that gales, or strong winds, are probable, at first from the Northward (from N.W. round by N. to S.E.) Should it appear likely that a gale beginning from between W. and S.E. is likely to veer towards S. or S.W., the South Cone is hoisted in preference to the North Cone.

YESTERDAY'S 2 P.M. REPORTS.

	Bar.	Dry.	Wet.	Wind.	Wes.	Sea.		Bar.	Dry.	Wet.	Wind.	Wes.	Sea.
Skudsmoes ...	29.69	59	57	NNW 6	6C	3	Holyhead ...	29.65	58	58	NNW 1	0 m	3
Samburgh Head ...	29.85	52	47	NNE 2	6C	2	Valencia ...	29.89	63	59	W 4	6V	4
Stornoway ...	29.84	52	49	N 5	6C	4	Saillly ...	29.91	60	55	NNW 3	6C	6
Aberdeen ...	29.81	54	50	ESE 3	C	5	Jersey ...	29.90	61	57	W 7	C	6
Shields ...	29.72	55	53	N 2	2	3	Dungeness ...	29.56	60	61	NW 3	11	4
Ardrossan ...	29.75	51	51	N 3	12 m	2	London ...	29.60	64	60	NNW 5	C 9	4
Malin Head ...	29.78	50	50	E 3	0	2	Yarmouth ...	29.49	68	61	ESE 2	C	4
Mullaghmore ...	29.78	56	58	ESE 1	0	1	Rocheport ...	29.15	64	59	NNW 3	C	4
Belmullet ...	29.84	59	54	N 2	6C	*							

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

The reports for yesterday morning showed that pressure was highest 30.1 ins. and upwards, over the Iberian peninsula but somewhat high 29.9 ins. and upwards, over the whole of southern and eastern Europe. The lowest readings 29.4 ins. and less, were found in a small depression lying near the mouth of the Thames, but low readings 29.5 ins. and less, were reported in another disturbance lying over the north of Scandinavia. The wind was moderate from the NEnd over the northern part of our Islands and strong to a gale from the W or NW over the Channel and the Bay of Biscay. In Germany however, S. or SE^{ly} breezes were reported, while over the Mediterranean the winds were light and variable. The weather was fine over southern Europe as well as at some of our own southwestern stations, but cloudy or overcast elsewhere with rain in many places. Temperature had fallen a little over Scandinavia and the west and north of our Islands, but elsewhere the changes were slight and irregular; readings ranged from 80° and upwards, in Algeria and 75° and upwards, at all the extreme southern stations to 50° and less, in the Shetlands and north of Norway. The highest individual readings were 91° at Biskra, 86° at Cagliari, 83° at Tunis, 81° at Oran, 80° at Malta, and 79° at Lesina, Brindisi and Laghouat; the lowest were 47° at Bodø and Christiansund, 49° at Malin Head, 50° at Lumburgh H^o, Wick and Kairn, and 51° at Skudsmoes, Stornoway and Ardrossan.

In the course of the day the depression off the mouth of the Thames moved slowly away in a northeasterly direction, but the weather over our Islands remained very rainy and unsettled, and in the evening there were indications of the approach of new disturbances from the westward.

EXPLANATION OF COLUMNS GIVEN ON PAGE 1.

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

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

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

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

DAILY WEATHER REPORT.

for Monday 30th July 1888.

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

STATIONS.	† YESTERDAY EVENING.						8 A.M. TO DAY.										PAST 24 HOURS.		
	Barometer at 32° F. and Sea Level.	Temp. in Shade.	WIND.		Weather.		BAROMETER.		SHADE TEMP.			WIND.		Weather.	Sea. (0 to 9.)	SHADE TEMP.		Amount of Rainfall.	
			Dir.	Force. (0 to 12.)			Reading at 32° F. and Sea Level.	Difference from 8 a.m. yesterday.	Dry.	Wet.	Difference from 8 a.m. yesterday.	Dir.	Force. (0 to 12.)			Max.	Min.		
SCANDINAVIA.																			
Haparanda ..	29.87	53	S	2	6	29.94	+0.3	57	54	+3	ENE	2	6	*	62	45	—		
Hernösand ...	29.87	52	X	0	0	29.84	-0.5	58	50	+5	NE	6	0	*	66	42	—		
Stockholm ...	29.68	57	NE	2	0	29.56	-1.26	57	58	-2	ENE	4	2	*	64	?	—		
Wisby ...	29.58	61	E	6	2	29.49	-1.13	61	59	-2	SWW	4	0	*	72	55	0.16		
Bodö ...	29.84	50	ENE	2	6	29.84	+0.3	61	53	+14	ENE	4	6	2	61	46	—		
Christiansund...	29.70	54	NNE	3	0	29.59	-1.16	55	52	+7	ENE	1	0	1	55	46	—		
Skudesnaes ...	29.60	58	NNW	3	2	29.52	-1.14	58	57	+1	2	0	2	2	59	55	0.71		
Christiania Fjord (Farder)	29.70	54	ENE	4	0	29.58	-1.15	57	55	0	NNE	5	2	1	59	54	0.75		
Skagen (The Scaw)	29.56	54	E	3	0	29.45	-1.15	54	54	-6	NE	3	0	2	61	52	1.14		
Fanö ...	29.51	59	W	6	0	29.54	+0.4	57	54	-5	NW	6	0	*	68	55	—		
Sumburgh Head	29.78	50	NNE	1	0	29.71	-1.0	48	44	+3	N	2	0	2	53	48	—		
Stornoway ...	29.77	50	E	4	0	29.74	-1.08	50	47	+2	E	4	0	4	57	45	0.08		
Wick ...	29.79	52	E	3	0	29.73	-1.12	52	50	+4	E	2	0	1	56	59	—		
Nairn ...	29.76	51	E	3	0	29.72	-1.08	52	51	+4	ENE	3	0	4	54	45	0.04		
Aberdeen...	29.77	52	ENE	4	6	29.72	-1.10	50	48	-1	N	2	0	3	56	48	—		
Leith ...	29.75	51	E	2	0	29.68	-1.11	52	50	+4	E	3	0	*	54	48	0.01		
Shields ...	29.74	54	E	2	0	29.66	-1.12	52	48	-1	NE	3	0	3	58	50	—		
Spurn Head ...	29.74	53	ENE	3	0	29.58	-1.20	51	50	-1	NE	5	2	3	56	49	0.28		
York ...	29.73	57	E	1	0	29.62	-1.16	50	49	-4	ENE	1	2	*	62	49	0.75		
Loughborough	29.70	56	X	0	2	29.55	-1.24	52	52	0	NNE	3	0	d	62	51	0.64		
BRITISH ISLANDS.																			
Ardrossan ...	29.69	53	NE	3	0	29.67	-1.08	50	48	0	NE	3	0	2	57	47	0.59		
Malin Head ...	29.66	52	E	4	0	29.64	-1.09	50	49	-1	ENE	4	0	2	55	50	0.04		
Mullaghmore ...	29.63	58	NNW	2	6	29.61	-1.11	55	53	0	E	4	0	2	61	52	—		
Belmullet ...	29.64	58	NNW	2	6	29.62	-1.10	56	54	+2	ENE	2	6	*	60	48	—		
Donaghadee ...	29.68	56	ENE	2	6	29.64	-1.11	51	49	-2	E	6	0	4	58	50	—		
Barrow-in-Furness	29.68	55	E	2	2	29.60	-1.16	50	49	-2	NE	3	2	*	60	49	0.43		
Liverpool (Bidston)	29.69	56	SE	1	2	29.57	-1.20	51	48	-4	ENE	4	0	3	60	50	0.26		
Holyhead ...	29.68	56	ENE	1	2	29.55	-1.21	52	52	-2	ENE	4	2	4	61	52	0.11		
Parsonstown ...	29.61	59	S	1	0	29.57	-1.17	52	51	-1	NE	1	0	*	57	52	0.01		
Valencia ...	29.58	57	ENE	3	0	29.56	-1.15	56	54	-1	N	2	0	2	60	52	0.27		
Roche's Point...	29.62	55	NE	3	2	29.56	-1.24	55	53	0	NE	4	0	4	60	53	0.70		
Pembroke ...	29.63	58	ENE	2	0	29.53	-1.24	56	56	0	SE	1	0	1	59	54	0.14		
Seilly ...	29.59	58	NNW	3	0	29.51	-1.24	60	58	+5	SW	2	6	4	60	53	0.08		
Prawle Point ...	29.60	56	S	3	6	29.57	-1.27	56	55	+3	NNW	3	0	2	57	52	0.20		
Jersey ...	29.69	65	SW	3	6	29.58	-1.22	57	56	+2	WNW	3	6	3	65	56	0.12		
Hurst Castle ...	29.66	56	ENE	2	2	29.57	-1.24	58	58	+2	WNW	4	0	3	62	56	0.05		
Dungeness ...	29.75	59	SW	3	0	29.58	-1.27	58	57	0	WNW	4	0	3	64	56	0.35		
London ...	29.72	60	S	2	0	29.50	-1.29	59	57	-2	SW	1	0	*	68	54	0.22		
Oxford ...	29.67	57	NE	2	2	29.49	-1.21	58	56	+3	NE	1	0	*	60	53	0.26		
Cambridge ...	29.70	59	X	0	2	29.57	-1.28	59	59	+4	2	0	*	65	53	0.27			
Yarmouth ...	29.78	56	ENE	2	6	29.54	-1.28	58	56	+4	NE	2	6	3	58	52	0.40		
Cuxhaven ...	29.67	57	NNW	7	2	29.70	+1.16	62	60	-4	W	4	6	*	64	55	0.04		
Berlin ...	29.67	58	W	4	0	29.77	+1.17	58	58	-3	W	3	0	*	64	54	0.24		
Wiesbaden ...	*	*	*	*	*	29.81	—	60	56	—	W	2	0	*	63	?	0.08		
Munich ...	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	
FRANCE & NETHERLANDS.																			
The Helder ...	29.76	56	WNW	1	0	29.62	-1.28	56	55	+1	SE	1	2	1	57	50	—		
Brussels ...	*	*	*	*	*	29.63	+1.13	58	58	+1	S	4	2	*	64	55	0.20		
Cape Gris Nez...	29.75	59	WNW	3	0	29.56	-1.29	59	57	+2	SW	5	0	2	61	55	0.22		
Paris ...	?	61	NE	3	0	29.65	-1.23	59	58	+5	S	3	0	*	65	?	0.44		
Brest ...	29.76	59	W	5	0	29.67	-1.22	57	54	+2	S	1	0	4	70	46	0.35		
Lorient ...	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	
Rochefort ...	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	
Belfort ...	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	
Lyons ...	29.74	67	E	1	0	29.88	-1.24	68	60	+8	ENE	1	0	*	71	57	—		
Nice ...	29.80	64	ENE	3	6	29.86	—	68	64	—	ENE	1	0	2	77	59	—		
Perpignan ...	29.71	78	NNW	3	6	29.82	-1.28	72	66	+6	NNW	3	6	*	82	60	—		
Biarritz ...	29.90	74	NNW	3	6	29.74	-1.30	70	64	+8	S	1	6	2	77	?	—		
PENINSULAR.																			
Corunna ...	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	
Lisbon ...	30.04	82	NNW	4	6	30.07	-1.06	67	66	+8	WNW	4	0	2	82	79	—		

WEATHER CHARTS

for 8 a.m. on

Monday 30th July.

1888.

BAROMETER, WIND & SEA.

(Explanation of Map)

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

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

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

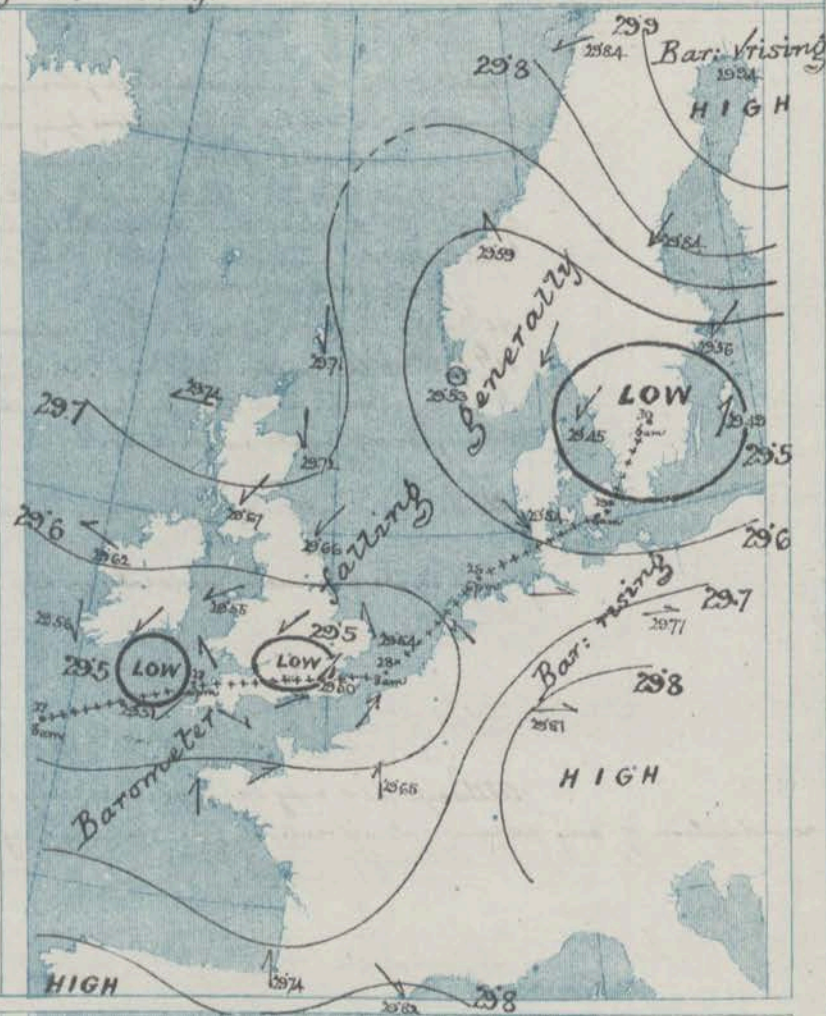
Sea Disturbance — where considerable is shown thus.

■ = Rough. ■ = High.

MEAN HEIGHT of the BAROMETER

at 8 a.m. for the month of July
During the 15 Years 1871 — 1885.

STATIONS.	MEAN READINGS.
Sumburgh Head	29.794
Stornoway	29.797
Wick	29.810
Nairn	29.821
Aberdeen	29.831
Leith	29.850
Shields	29.876
York	29.910
Loughborough	29.986
Ardrossan	29.862
Donaghadee	29.881
Holyhead	29.918
Liverpool	29.913
Parsonstown	29.921
Valencia	29.939
Roche's Point	29.938
Pembroke	29.942
Scilly	29.984
Jersey	30.009
Hurst Castle	29.974
Dover	29.970
LONDON	29.967
Oxford	29.953
Cambridge	29.947
Yarmouth	29.943



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

Temperature — Isotherms are drawn for each 10° changes since previous morning are stated in words.

Weather is shown by Letters of the Beaufort Scale.

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

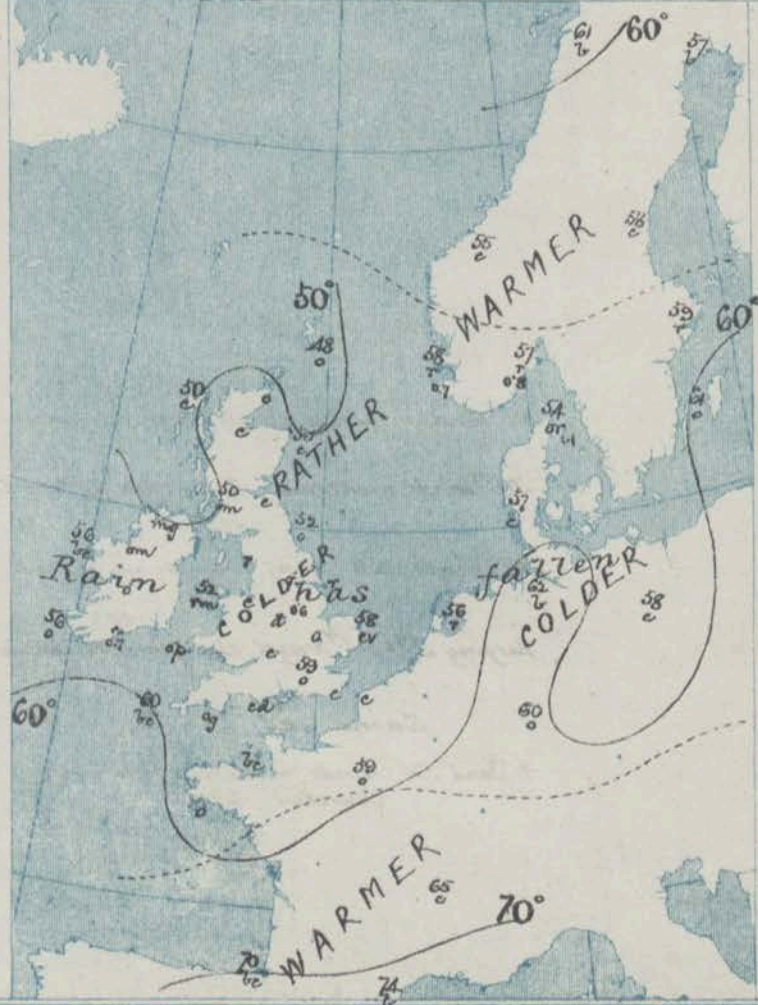
MEANS OF TEMPERATURE IN SHADE.

AND RAINFALL.

for the month of July.

STATIONS.	TEMPERATURE.				RAINFALL. (Inches.)
	Daily Max.	Daily Min.	at 8 a.m.		
			Dry.	Wet.	
Sumburgh Head	57.8	48.3	53.6	52.0	2.09
Stornoway	60.2	49.5	56.0	54.0	3.02
Wick	62.2	49.2	56.1	53.8	2.25
Nairn	61.7	51.4	57.2	53.6	2.57
Aberdeen	64.4	51.1	58.0	54.4	2.74
Leith	67.1	51.7	58.6	55.3	2.84
Shields	64.4	52.9	58.6	55.4	2.03
York	68.5	52.1	59.4	56.2	2.57
Loughborough	72.1	53.0	62.0	58.2	2.34
Ardrossan	63.9	53.2	57.5	54.8	2.91
Donaghadee	63.1	51.6	57.4	55.6	2.67
Holyhead	63.9	54.7	58.2	55.9	2.32
Liverpool	66.1	54.4	59.6	55.9	2.99
Parsonstown	66.4	51.9	58.3	54.8	3.01
Valencia	64.1	53.6	58.7	56.3	3.91
Roche's Point	66.7	53.3	58.7	55.8	3.16
Pembroke	62.9	55.0	58.1	55.9	2.31
Scilly	64.5	56.3	60.1	58.0	2.29
Jersey	68.8	56.3	62.2	59.2	2.21
Hurst Castle	67.9	55.7	61.3	58.8	2.15
Dover	67.2	56.9	62.6	58.8	1.82
LONDON	73.0	54.1	62.3	58.1	2.17
Oxford	69.9	53.7	60.2	56.8	2.51
Cambridge	72.3	52.4	61.4	57.9	2.30
Yarmouth	66.8	55.2	61.2	58.1	2.48

NOTE — The Temperature means are for the 15 years 1871 — 85, the Rainfall means are mainly those for the 20 years 1866 — 85.



GENERAL SITUATION AT 8 A.M.

PRESSURE

Highest 29.9 ins. and more, over the north of Sweden - 30.0 ins. and more, over the southern parts of the Spanish Peninsula.
Lowest 29.5 ins. and less, in depressions lying over the southern parts of our Islands and the south of Norway.

Gradients moderate to slight. Barometer rising in the north of Scandinavia, falling irregularly elsewhere.

TEMPERATURE

Highest 74° at Perpignan, 70° at Biarritz, 67° at Lisbon, 65° at Lyons, 62° at Copenhaven, and 61° at Wexley and Rode.
Lowest 48° at Lumburgh Head, 55° at Killybeg, Aberdeen, Ardaraan and Malin Head, and 52° at Shields, Holyhead and Parsonstown.
It has risen at the most northern stations, and also in France and the south of England, fallen in most other places, but not much.

WIND

NE. or E. at all the more northern stations, moderate to fresh in force.

W. or S.W. at the southern stations, light to moderate in force.

It varies greatly from time to time over the southern parts of our Islands.

Cloudy except in the extreme north.

Rain is falling over all the northern and northeastern counties of England, and at Hurst Castle.

WEATHER

Shower have fallen very generally except in the north and northwest.

SEA

Rough in the Channel, moderate on our northwest coasts, slight elsewhere.

PROBABLE CHANGES IN SYSTEM NOW PREVALENT

Although there may be some temporary improvement in the weather at times in most localities, there is no indication of any permanent alteration from the showery, unsettled conditions recently observed.

FORECASTS

for the 24 hours ending at NOON on 31st JULY 1888.

DISTRICTS.

FORECASTS.

0	SCOTLAND NORTH	NE ³ winds, moderate; cloudy, some local showers.
1	SCOTLAND EAST	NE ² winds, moderate; dull, rain at times.
2	ENGLAND N.E.	NE ² winds; dull, rainy, cold, some thunder.
3	ENGLAND EAST	Varying S ² & SW ² breezes; close, showery, thunder locally.
4	MIDLAND COUNTIES	Same as N° 2.
5	ENGLAND SOUTH	N ² and SW ² winds, moderate; showery, thunder locally.

DISTRICTS.

FORECASTS.

6	SCOTLAND WEST	Same as N° 0.
7	ENGLAND N.W.	Same as N° 2.
8	ENGLAND S.W.	Same as N° 5.
9	IRELAND NORTH	E ² winds, fresh; cloudy, some rain.
10	IRELAND SOUTH	N ² and NW ² winds, light; dull to fair.

WARNINGS

NONE ISSUED.

Note.—The South Cone, point downwards (∇) means that gales, or strong winds, are probable, at first from the Southward (from S.E. round by S. to N.W.) Should it appear likely that a gale beginning from between W. and N.W. is likely to veer towards N. or N.E., the North Cone is hoisted in preference to the South Cone.
The North Cone, point upwards (∇) means that gales, or strong winds, are probable, at first from the Northward (from N.W. round by N. to S.E.) Should it appear likely that a gale beginning from between E. and S.E. is likely to veer towards S. or S.W., the South Cone is hoisted in preference to the North Cone.

YESTERDAY'S 2 P.M. REPORTS.

	Bar.	Dry.	Wet.	Wind.	Wea.	Sea.		Bar.	Dry.	Wet.	Wind.	Wea.	Sea.
Skudesnæs ...							Holyhead ...	29.72	55	54	SE 2	2 m	2
Samburgh Head ...							Valencia ...						
Stornoway ...	29.80	50	49	E 4	7	4	Scilly ...						
Aberdeen ...							Jersey ...	29.76	59	58	SE 5	0 m	4
Shields ...							Dungeness ...	29.81	52	57	W 4	6	8
Ardrossan ...							London ...						*
Malin Head ...	29.70	52	52	E 3	0	2	Yarmouth ...						
Mullaghmore ...							Rocheport ...						
Belmullet ...	29.69	54	53	WNW 2	6C	*							

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

The reports for yesterday morning showed that pressure was highest, 30.1 ins. and upwards off the southwest of Spain, but relatively high, 29.8 ins. and upwards, to the northward of the British Islands. The lowest readings, 29.5 ins. and less, were found in a small depression lying over the south of Denmark, but another disturbance, with readings below 29.4 ins., was lying off the southwest of our Islands. The wind was E. over the Baltic, the south of Scandinavia and the northern parts of the United Kingdom, but over Germany, France and the south of England it varied between SW and W, while at the mouth of the Channel it blew strongly from the S.W. The weather was fine in Algeria, Portugal and the southern parts of France and Austria, but cloudy or overcast elsewhere, with rain in many places. Temperature had risen a little in Scandinavia and Denmark but fallen elsewhere; readings ranged from 75° and upwards, over Algeria and the south of Italy to 50° and less, over the northern parts of Scotland and Norway. The highest individual readings were 90° at Biskra, 81° at Brindisi and 80° at Tunis, and 75° at Lenia, Cagliari, Malta and Algiers; the lowest were 45° at Samburgh H., 47° at Bodø, 48° at Christiansund, Stornoway and Wick, 49° at Naïm and Leith and 50° at Ardrossan.

In the course of the day the depression over Denmark continued to travel away in a northeasterly direction, while the new disturbance off our southwest coast moved eastwards to the south of England. At the same time other small depressions appeared over our west coasts, the weather therefore continued very unsettled with rain in nearly all parts of the Kingdom.

SUMMARY OF CHANGES IN THE WEATHER OVER THE BRITISH ISLANDS AND THEIR NEIGHBOURHOOD FROM THE 22ND TO THE 28TH JULY 1888.

The weather of the past week was again cool, changeable and very unsettled, with heavy falls of rain in nearly all districts and local thunderstorms.

At the commencement of the time barometrical pressure was highest over Switzerland and south Germany and some large depressions appeared off our extreme western coast, moving in a northerly to northeasterly direction. The winds over our Islands were therefore S.W. and at some of our western stations they occasionally blew with considerable strength. On the night of the 22ND a secondary disturbance advanced northwards from the Bay of Biscay across England, and severe thunderstorms occurred at several of our eastern and southern stations.

On the 25TH the high pressure area over Germany gave way, and the highest readings were again reported from Spain. A large and irregularly formed depression now appeared over our west coasts and moved northeasterly to Scandinavia; its passage being attended by heavy falls of rain, local thunderstorms, and a slight S.W. to W. gale at the Channel stations.

On the morning of the 27TH, when the depression had reached Norway, a new disturbance of a more clearly defined nature appeared off our southwest coasts, and in the course of the ensuing 24 hours this moved steadily eastwards along the extreme south of England. The passage of this system was marked by slight S.W. to W. gales over the Channel, and heavy rain in the west and south generally. At the close of the week the new disturbance was travelling away towards Denmark, but pressure in the west was again becoming very unsettled and there were indications of the advance of fresh depressions from the Atlantic.

Temperature has remained low, especially over the northern districts. The maximum readings have seldom reached 70° even over our midland country, and in the north the thermometer as a rule failed to reach 60°.

EXPLANATION OF COLUMNS GIVEN ON PAGE 1.

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

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

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

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

DAILY WEATHER REPORT.

for Tuesday 31st July 1888.
Issued by the Meteorological Office, 116, Victoria Street, London. R. H. SCOTT, Secretary.

STATIONS.	† YESTERDAY EVENING.						8 A.M. TO DAY.										PAST 24 HOURS.		
	Barometer at 32° F. Sea Level.	Temp. in Shade.	WIND.		Weather.		BAROMETER.		SHADE TEMP.			WIND.		Weather.	Sea. (0 to 5.)		SHADE TEMP.		Amount of Rainfall.
			Dir.	Force. (0 to 12.)			Reading at 32° F. Sea Level.	Difference from 8 a.m. yesterday.	Dry.	Wet.	Difference from 8 a.m. yesterday.	Dir.	Force. (0 to 12.)				Max.	Min.	
SCANDINAVIA.																			
Haparanda ...	29.85	62	NNE	2	bc		29.85	-0.09	61	61	+4	ENE	2	bc	*		72	45	—
Hernösand ...	29.70	54	NNE	4	bc		29.70	-0.14	56	55	-2	ENE	6	bc	*		61	40	0.24
Stockholm ...	29.58	60	ENE	2	bc		29.72	+0.16	62	57	+5	ENE	2	bc	*		66	54	0.08
Wishby ...	29.66	59	S	6	c		29.72	+0.23	64	58	+2	S	4	c	*		68	57	0.04
Bodö ...	29.78	66	E	2	bc		29.65	-0.19	65	57	+4	E	4	bc	2		70	55	—
Christiansund ...	29.48	60	ENE	7	bc		29.34	-0.25	60	53	+5	ENE	6	bc	2		66	53	—
Skudesnaes ...	29.46	55	WNW	2	bc		29.45	-0.08	56	54	-2	W	2	bc	3		61	55	1.02
Christiania Fjord (Færdor)	29.41	59	NNE	2	bc		29.50	-0.03	57	53	0	ENE	2	bc	2		59	55	0.42
Skagen (The Seaw)	29.49	55	W	1	bc		29.45	0.00	53	53	+1	ENE	1	bc	1		62	52	—
Fanö ...	29.49	53	NNE	4	c		29.45	-0.09	53	53	-4	WNW	4	bc	*		63	52	0.47
BRITISH ISLANDS.																			
Sumburgh Head	29.65	49	N	3	bc		29.60	-0.11	47	44	-1	N	4	bc	4		54	42	—
Stornoway ...	29.76	52	E	4	bc		29.79	+0.05	53	52	+3	W	2	bc	3		54	45	—
Wick ...	29.72	52	WNW	3	bc		29.75	+0.02	52	47	0	N	4	c	2		55	41	—
Nairn ...	29.72	52	NNE	1	bc		29.78	+0.05	53	47	-3	W	1	c	1		56	42	—
Aberdeen ...	29.70	51	N	2	c		29.77	+0.05	50	44	0	WNW	4	c	3		55	42	—
Leith ...	29.68	55	E	1	bc		29.80	+0.12	56	49	+3	NW	1	bc	*		56	41	—
Shields ...	29.68	53	NNE	2	c		29.76	+0.10	51	47	-1	NW	2	bc	3		56	46	—
Spurn Head ...	29.66	51	NNE	5	c		29.77	+0.19	54	53	+3	NNE	4	c	3		54	49	0.13
York ...	29.60	52	NNE	1	bc		29.80	+0.17	51	48	+1	N	2	c	*		54	47	0.72
Loughborough	29.56	50	NNE	4	bc		29.81	+0.26	53	50	+1	N	1	bc	*		53	48	0.01
Ardrrossan ...	29.66	56	NNE	1	bc		29.81	+0.14	52	50	+2	W	0	bc	0		57	44	0.01
Malin Head ...	29.68	53	NNE	3	bc		29.84	+0.20	52	50	+2	N	2	c	2		55	50	—
Mullaghmore ...	29.66	57	ENE	4	bc		29.85	+0.24	52	50	-3	WNW	2	bc	2		60	49	0.15
Bolnullet ...	29.69	57	NNE	3	c		29.88	+0.26	56	53	0	NNE	2	c	*		57	50	0.13
Donaghadee ...	29.67	53	NNE	5	bc		29.84	+0.20	53	50	+2	NNE	3	bc	2		55	49	—
GERMANY.																			
Barrow-in-Furness	29.59	53	NNE	3	bc		29.79	+0.19	51	48	+1	N	2	bc	*		54	46	0.08
Liverpool (Bidston)	29.59	53	ENE	2	bc		29.83	+0.26	53	47	+2	ENE	1	bc	2		57	48	—
Holyhead ...	29.58	54	NNE	3	bc		29.82	+0.27	53	49	+1	NNE	2	bc	3		55	51	0.08
Parsonstown ...	29.64	53	NNE	1	bc		29.86	+0.29	54	52	+2	W	0	bc	*		60	48	—
Valencia ...	29.66	60	N	4	bc		29.87	+0.31	57	56	+3	WNW	1	bc	1		64	52	0.02
Roche's Point ...	29.60	58	NNE	3	bc		29.84	+0.34	55	52	0	N	2	bc	3		60	48	0.20
Pembroke ...	29.71	59	ENE	1	c		29.81	+0.28	53	51	-3	ENE	2	bc	1		61	53	0.04
Scilly ...	29.72	62	WNW	2	bc		29.75	+0.24	57	55	-3	WNW	5	bc	3		64	54	0.01
Prawle Point ...	29.58	56	W	3	bc		29.78	+0.21	54	53	-2	E	5	c	3		59	52	—
Jersey ...	29.51	57	S	2	bc		29.79	+0.21	57	57	0	SW	3	bc	3		62	55	0.42
Hurst Castle ...	29.49	57	W	4	c		29.80	+0.29	54	53	-4	NNE	2	bc	2		63	52	0.02
Dungeness ...	29.44	59	WNW	4	c		29.73	+0.20	54	53	-4	WNW	3	bc	2		62	52	0.07
London ...	29.48	57	W	0	bc		29.78	+0.23	53	51	-6	WNW	1	bc	*		71	51	0.742
Oxford ...	29.54	52	N	3	bc		29.81	+0.22	53	51	-5	N	2	bc	*		66	49	0.12
Cambridge ...	29.48	57	N	2	bc		29.80	+0.29	53	52	-6	N	1	bc	*		67	49	0.13
Yarmouth ...	29.48	59	ENE	2	bc		29.72	+0.18	54	52	-4	WNW	3	c	4		60	51	0.35
Cuxhaven ...	29.62	57	S	2	bc		29.83	+0.15	57	58	-3	WNW	5	bc	*		64	56	0.96
Berlin ...	29.89	67	WNW	2	bc		29.72	-0.05	64	61	+6	SW	3	bc	*		73	61	—
Wiesbaden ...	29.89	67	WNW	2	bc		29.83	+0.02	63	58	+3	SW	4	bc	*		68	57	0.51
Munich ...	29.76	65	E	2	bc		29.82	—	60	59	—	W	0	bc	*		75	57	0.08
FRANCE & NETHERLANDS.																			
The Helder ...	29.47	60	N	1	c		29.63	+0.01	56	54	0	N	1	bc	2		64	53	0.20
Brussels ...	29.47	60	N	1	c		29.72	+0.11	58	55	0	WNW	4	bc	*		63	53	0.75
Cape Gris Nez ...	29.48	57	WNW	5	c		29.77	+0.21	53	53	-4	WNW	4	bc	3		63	54	0.04
Paris ...	29.68	59	WNW	4	bc		29.84	+0.19	59	56	0	SW	4	bc	*		65	55	0.16
Brest ...	29.60	60	WNW	1	bc		29.84	+0.17	57	54	0	W	5	c	4		69	46	0.20
Lorient ...	29.56	62	W	8	bc		29.79	—	57	58	—	W	5	bc	4		63	54	0.24
Rocheport ...	29.50	66	WNW	9	bc		29.95	—	62	60	—	W	5	bc	2		66	53	0.53
Belfort ...	29.74	66	W	3	bc		29.98	+0.16	60	57	-3	W	1	bc	*		76	53	0.52
Lyons ...	29.68	75	S	4	c		29.01	+0.18	58	55	-7	SW	1	bc	*		88	55	0.87
Nice ...	29.91	68	WNW	3	bc		29.95	+0.09	70	65	+2	NE	1	bc	1		77	61	—
Perpignan ...	29.71	80	N	4	c		29.99	+0.17	67	59	-5	WNW	3	bc	*		82	55	—
Biarritz ...	29.90	67	WNW	5	bc		29.99	+0.25	63	58	-7	S	3	bc	5		79	61	—
PORTUGAL.																			
Corunna ...	29.84	68	WNW	5	bc		29.92	+0.06	66	60	-1	WNW	3	bc	2		75	59	—
Lisbon ...	29.84	68	WNW	5	bc		29.92	+0.06	66	60	-1	WNW	3	bc	2		75	59	—

For Explanation of Columns, see p. 4. This fall was at Brighton; at W. Narwood † Received too late for insertion in Charts on p. 2
the fall was 1.6 ins.; at Westminster 0.39 inch

WEATHER CHARTS

for 8 a.m. on

Tuesday, 31st July.

1888.

BAROMETER, WIND & SEA.

(Explanation of Map)

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

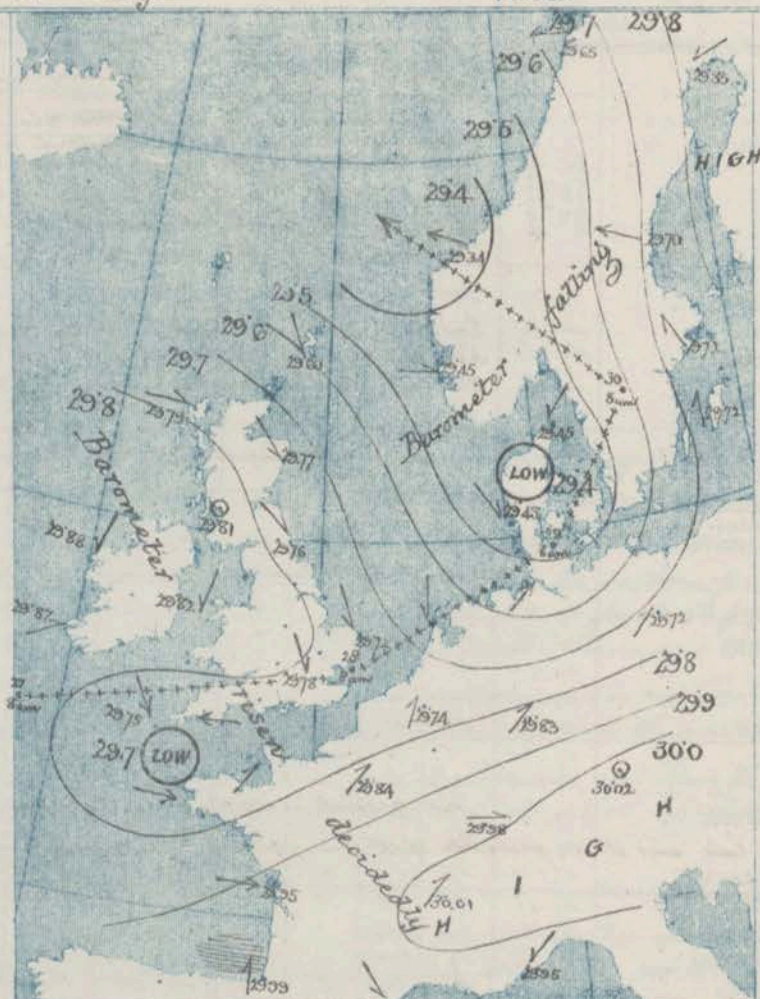
Sea Disturbance — where considerable, is shown thus.

— Rough. — High.

MEAN HEIGHT of the BAROMETER

at 8 a.m. for the month of July
 During the 15 Years 1871—1885.

STATIONS.	MEAN READINGS.
Sumbargl Head	29.791
Stornoway	29.797
Wick	29.810
Nairn	29.821
Aberdeen	29.831
Leith	29.850
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York	29.910
Loughborough	29.936
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TEMPERATURE, & WEATHER at 8 A.M., with RAINFALL in PAST 24 HOURS.

Temperature — Isotherms are drawn for each 10° Changes since previous morning are stated in words.
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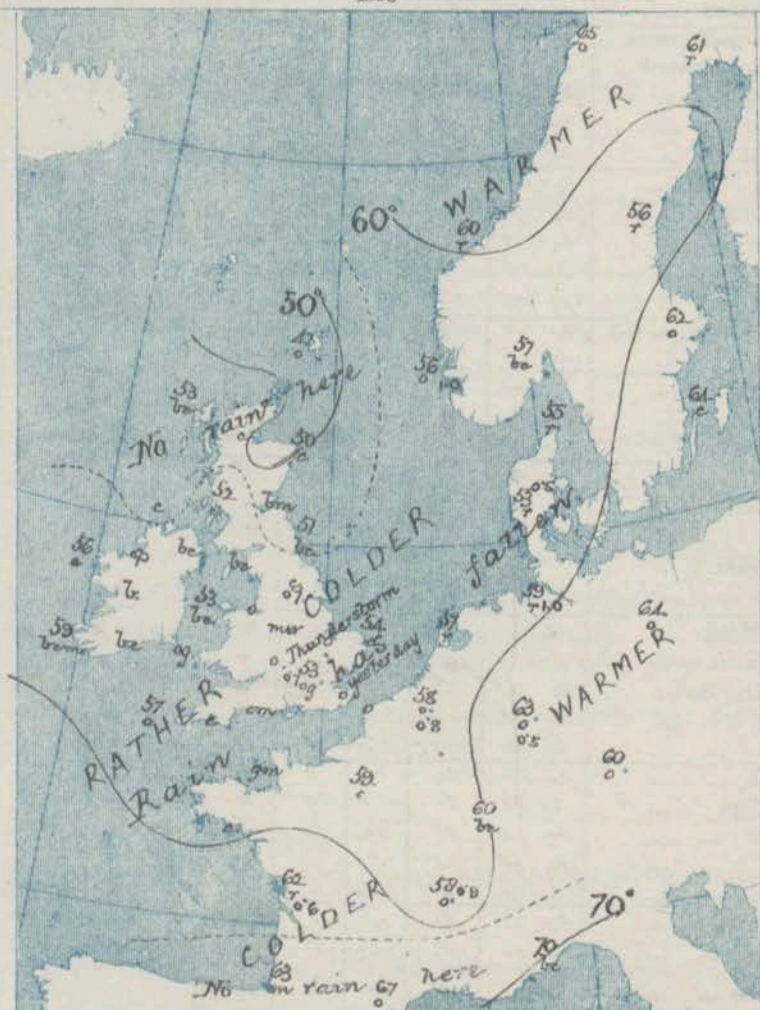
MEANS OF TEMPERATURE IN SHADE.

AND RAINFALL.

for the month of July.

STATIONS.	TEMPERATURE.				RAINFALL. (Inches).
	Daily Max.	Daily Min.	at 8 a.m.		
			Dry	Wet	
Sumbargh Head	57.8	48.3	53.8	52.0	2.09
Stornoway	60.2	49.5	56.0	54.0	3.02
Wick	62.2	49.2	56.1	53.8	2.25
Nairn	64.7	51.4	57.2	53.6	2.57
Aberdeen	64.4	51.1	58.0	54.4	2.74
Leith	67.1	51.7	58.6	55.3	2.84
Shields	64.4	52.9	58.6	55.4	2.63
York	68.6	52.1	59.4	56.2	2.57
Loughborough	72.1	58.0	62.0	58.2	2.34
Ardrossan	63.9	53.2	57.5	54.8	2.91
Donaghadee	63.1	51.6	57.4	55.6	2.67
Holyhead	63.9	54.7	58.2	55.9	2.32
Liverpool	66.1	54.4	59.6	55.9	2.99
Parsonstown	66.4	51.9	58.3	54.8	3.01
Valencia	64.1	53.6	58.7	56.3	3.91
Roche's Point	66.7	58.3	58.7	55.8	3.16
Pembroke	62.9	55.0	58.1	55.9	2.31
Scilly	64.5	56.3	60.1	58.0	2.29
Jersey	66.8	56.3	62.2	59.2	2.21
Hurst Castle	67.9	55.7	61.3	58.8	2.15
Dover	67.2	56.9	62.6	58.8	1.82
LONDON	73.0	54.1	62.3	58.1	2.17
Oxford	69.9	53.7	60.2	56.8	2.51
Cambridge	72.3	52.4	61.4	57.9	2.30
Yarmouth	66.8	55.2	61.2	58.1	2.68

NOTE — The Temperature means are for the 15 years 1871—85, the Rainfall means are mainly those for the 10 years 1866—85.



GENERAL SITUATION AT 8 A.M.

PRESSURE

Highest 30.0 ins. and more, over south Germany and the S.E. of France; 29.8 ins. and more over Finland and all the more ^{partly} the British Isles. Lowest 29.4 ins. and less in two depressions, lying over Denmark and the west of Norway, and about 29.7 ins. in another depression at the mouth of the Channel.

Gradients slight in our Islands, moderate for winds from various directions elsewhere.

Barometer rising in the British Islands, France and Germany, falling in Norway and Denmark.

TEMPERATURE

Highest 70° at Nice, 64° at Pauzan, 65° at Porto, 66° at Stockholm.

Lowest 44° at Lumburgh Head, 50° at Aberdeen, 51° at Shields and York, and 53° over central England.

After changing fitfully yesterday it has fallen in the south and east of England, and is low for the time of year, except in some parts of Scandinavia.

WIND

Light, to moderate from the N.W. in our Islands, moderate from W and S.W. in France.

S.W. in Germany - S.E. in Sweden - E. in Norway.

During yesterday it was extremely variable in the south of England.

WEATHER

Rainy on the eastern shores of the North Sea.

Cloudy in our Islands, with slight showers in some localities.

Severe thunderstorms occurred in some parts of England yesterday, notably in some of the southern suburbs of London.

SEA

Moderate at Lumburgh Head and Yarmouth, slight or smooth elsewhere.

PROBABLE CHANGES IN SYSTEM NOW PREVALENT

The present indications, though not settled, are of a more favourable type than those experienced of late, and it is probable that the weather during the coming 24 hours will improve a little over the British Isles generally.

FORECASTS

For the 24 hours ending at NOON on 1st AUGUST 1888.

DISTRICTS.

FORECASTS.

0 SCOTLAND

1 NORTH

1 SCOTLAND

2 EAST

2 ENGLAND

3 N.E.

3 ENGLAND

4 EAST

1 MIDLAND

1 COUNTIES

5 ENGLAND

5 SOUTH

N.W. or N. breezes, moderate; cloudy, fair at a whole.

N. breezes, light; cloudy to fine.

DISTRICTS.

FORECASTS.

6 SCOTLAND

6 WEST

7 ENGLAND

7 N.W.

8 ENGLAND

8 S.W.

9 IRELAND

9 NORTH

10 IRELAND

10 SOUTH

N.W. and N. breezes, light; slight local showers, but fair at a whole.

N.E. to N. winds, moderate to light; some showers, then fine.

N. winds, light; fair generally.

WARNINGS

NONE ISSUED.

Note.—The South Cone, point downwards (∇) means that gales, or strong winds, are probable, at first from the Southward (from S.E. round by S. to N.W.) Should it appear likely that a gale beginning from between W. and N.W. is likely to veer towards N. or N.E., the North Cone is hoisted in preference to the South Cone.

The North Cone, point upwards (∆) means that gales, or strong winds, are probable, at first from the Northward (from N.W. round by N. to S.E.) Should it appear likely that a gale beginning from between E. and S.E. is likely to veer towards S. or S.W., the South Cone is hoisted in preference to the North Cone.

YESTERDAY'S 2 P.M. REPORTS.

	Bar.	Dry.	Wet.	Wind.	Wea.	Sea.		Bar.	Dry.	Wet.	Wind.	Wea.	Sea.
Skudesnaes ...	29.49	60	53	ENE 1	12	2	Holyhead ...	29.55	52	51	ENE 5	0 m	5
Sumburgh Head ...	29.66	52	47	N 2	C	3	Valencia ...	29.58	62	57	N 2	C m	3
Stornoway ...	29.75	54	51	NE 4	6	4	Scilly ...	29.50	63	59	WSW 2	C	3
Aberdeen ...	29.69	53	47	N 2	0	4	Jersey ...	29.54	60	57	SW 3	agmt	3
Shields ...	29.64	53	49	N 3	C	3	Dungeness ...	29.49	60	57	WSW 4	C	3
Ardrossan ...	29.65	57	51	NE 2	0 m	1	London ...	29.45	67	62	WSW 3	C	*
Malin Head ...	29.67	55	51	E 3	C	2	Yarmouth ...	29.49	60	58	ENE 4	C	4
Mullaghmore ...	29.62	58	53	ES	2 m	2	Rochefort ...	29.70	60	59	W 3	R	3
Belmullet ...	29.66	60	53	ENE 3	C	*							

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

The reports for yesterday morning showed that pressure was highest, 30.0 ins. and upwards, over Algeria and the south of Spain, but relatively high, 29.9 ins. and upwards, over Lapland. The lowest readings 29.5 ins. and less, were found in three depressions, — one, a large system, lying over the south of Sweden, the other two, small and shallow, lying in a trough over the southern parts of the United Kingdom. The wind was NE 9 over northern Europe and all the more northern parts of our Islands, but W 4 or SW 4 over Spain, France, Germany and the south of England, and variable in Italy and Algeria. The weather was fine over Spain, Algeria and the greater part of Italy, but cloudy and unsettled elsewhere, with rain in many places. Temperature had fallen a little over England, Germany and Austria as well as at most of the Algerian stations, but risen elsewhere; readings ranged from 75° and upwards, in several parts of Spain, Italy and Algeria to 50° or less, in the extreme north and northwest of our Islands. The highest individual readings were 84° at Biskra, 82° at Brindisi, 79° at Bilbao, 78° at La Calle, and 77° at Barcelona and Laghouat; the lowest were 48° at Sumburgh Head, 50° at Stornoway, Aberdeen, Ardrossan and Malin Head, and 52° at Shields, Holyhead and Parsonstown. In the course of the day the trough of low pressure over the south of our Islands moved slowly southeastwards, and the barometer rose in the west and northwest. The weather over our southern districts remained very unsettled, with thunderstorms and heavy rain in many places.

EXPLANATION OF COLUMNS GIVEN ON PAGE 1.

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

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

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

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

CORRECTIONS AND ADDITIONS TO THE REPORTS FOR JULY 1888

1. REPORTS RECEIVED TOO LATE FOR INSERTION DAILY.

DATE.	STATIONS.	† YESTERDAY EVENING.						8 A.M. TO DAY.										PAST 24 HOURS.		
		Barometer at 32° F. and Sea Level.	Temp. in Shade.	WIND.		Weather.	BAROMETER.		SHADE TEMP.			WIND.		Weather.	Sea. (0 to 9.)	SHADE TEMP.		Amount of Rainfall.		
				Dir.	Force. (0 to 12.)		Reading at 32° F. and Sea Level.	Difference from 8 a.m. yesterday.	Dry.	Wet.	Difference from 8 a.m. yesterday.	Dir.	Force. (0 to 12.)			Max.	Min.			
3	Corunna...	*	*	*	*	*	30.18	+01	67	64	-5	WSW	4	0	2	75	55	0.12		
4	Corunna...	*	*	*	*	*	29.83	-35	67	64	0	SW	9	0	4	70	59	-		
5	Belfort....	29.79	63	W	1	0	29.71	-16	63	59	-3	WSW	3	bc	2	71	51	0.04		
-	Corunna...	*	*	*	*	*	29.87	+04	63	60	-4	SSW	7	0	4	70	57	0.04		
6	Corunna...	*	*	*	*	*	29.89	-02	66	62	+3	SSW	5	bc	3	68	55	0.04		
7	Corunna...	*	*	*	*	*	30.04	+15	65	61	-1	WSW	3	bc	2	70	54	0.16		
9	dyons....	30.03	68	E	1	0	30.16	+07	58	-	-1	N	3	bc	*	72	54	0.08		
-	Corunna...	*	*	*	*	*	30.23	+06	64	61	-2	NNE	7	bc	5	72	55	-		
10	Corunna...	*	*	*	*	*	30.25	+02	67	63	+3	NNE	1	bc	0	68	54	-		
12	Corunna...	*	*	*	*	*	30.21	+02	64	60	0	NNE	7	b	5	68	57	-		
13	Corunna...	*	*	*	*	*	30.15	-06	68	62	+4	NE	1	b	2	70	48	-		
14	Biarritz...	30.20	68	NE	5	bc	30.08	-16	60	-	-1	ESE	7	e	1	70	54	-		
-	Corunna...	*	*	*	*	*	29.97	+18	63	61	-5	NW	1	r	0	79	59	-		
16	Lorient....	29.86	68	SW	3	0	29.72	+05	61	-	0	W	3	0	0	72	55	0.16		
-	Corunna...	*	*	*	*	*	29.83	?	63	61	+2	SSW	7	0	4	68	55	0.12		
17	Corunna...	*	*	*	*	*	29.92	+09	62	60	-1	WSW	5	e	4	66	55	0.20		
18	Corunna...	*	*	*	*	*	30.03	+11	64	62	+2	NW	4	0	5	68	55	0.08		
19	Corunna...	*	*	*	*	*	30.19	+16	67	63	+3	NW	1	bc	4	84	55	-		
20	Corunna...	*	*	*	*	*	30.13	-06	70	65	+3	WSW	1	0	*	72	59	0.16		
21	Skudesnaes	29.75	54	W	4	0	29.74	-01	55	-	0	W	3	0	3	63	54	-		
-	Corunna...	*	*	*	*	*	30.16	+03	65	62	-5	NW	3	0	2	72	57	-		
23	Corunna...	*	*	*	*	*	29.85	-09	63	62	-1	SW	3	r	4	72	55	0.63		
25	Bordeaux....	29.62	49	N	2	b	29.44	-30	53	49	+5	NE	3	e	1	54	46	-		
-	Corunna...	29.41	52	SSW	1	0	29.40	-13	49	49	-4	WSW	6	r	3	54	46	0.87		
-	Corunna...	*	*	*	*	*	29.88	-13	67	64	0	S	7	0	3	77	61	0.04		
26	Corunna...	*	*	*	*	*	30.08	+20	68	63	+1	WSW	1	b	5	72	54	-		
28	Brussels...	*	*	*	*	*	29.53	-43	60	59	0	S	3	r	*	72	60	0.24		
-	Corunna...	*	*	*	*	*	30.25	+34	68	61	-3	WSW	1	b	7	65	61	-		
30	Lorient....	29.79	63	SW	4	e	29.66	-28	59	-	+2	SSE	1	r	3	68	55	0.20		
-	Rehufort...	29.94	63	SW	5	r	29.77	-29	65	-	+3	SW	8	r	5	68	55	1.26		
-	Belfort....	29.95	61	W	1	e	29.82	-20	63	60	+4	SW	1	b	*	63	50	-		
-	Corunna...	*	*	*	*	*	29.85	-19	62	60	-4	SSW	7	0	4	77	57	0.85		
31	Corunna...	*	*	*	*	*	30.01	+16	64	61	+2	WSW	5	e	3	68	57	-		

SUMMARY of the METEOROLOGICAL OBSERVATIONS made at TELEGRAPHIC REPORTING
Observations are made at 8 a.m. daily, but the numbers of days of Rain, Snow, Hail,
(The Stations are grouped in Districts, and then arranged in order of

Names of Districts.	Names of Stations.	Mean height of Barometer (at 32° Fahrenheit and Mean Sea Level) from observations made at 8 a.m.	Air Temperature.								Tension of Vapour
			At 8 a.m.	Means of			Absolute Extremes.				
				Minima	Maxima	Min. and Max. combined	Minimum	Date	Maximum	Date	
		ins.	°	°	°	°	°		°		ins.
0. SCOTLAND, N.	{ Sumburgh Head ...	29.728	50.0	44.9	54.3	49.6	37	6 th	67	18 th	0.298
	{ Wick ...	29.747	52.7	45.2	57.1	51.2	36	7 th	75	19 th	351
	{ Stornoway ...	29.737	52.3	45.5	57.1	51.3	32	7 th	68	19 th 20 th	360
1. SCOTLAND, E.	{ Nairn ...	29.733	53.0	47.1	59.9	53.5	40	7 th	73	19 th	347
	{ Aberdeen ...	29.743	53.2	47.5	58.7	53.1	41	7 th	71	19 th 20 th	320
	{ Leith ...	29.730	54.8	48.8	61.0	54.9	41	31 st	72	12 th	349
2. ENGLAND, N.E.	{ Shields ...	29.718	53.6	48.5	59.1	53.8	41	7 th	68	21 st 23 rd	337
	{ York ...	29.737	55.2	48.7	63.1	55.9	41	7 th 11 th	74	10 th	365
	{ Spurn Head ...	29.731	55.2	50.6	59.5	55.1	44	11 th	70	23 rd	376
3. ENGLAND, E.	{ Yarmouth ...	29.742	57.2	51.6	61.8	56.7	44	8 th 13 th	68	21 st 22 nd 24 th	389
	{ Cambridge ...	29.760	57.8	49.8	66.2	58.0	42	11 th	72	19 th 22 nd	404
4. MIDLAND COUNTIES.	{ Loughborough ...	29.755	55.9	50.4	64.5	57.5	39	11 th	76	19 th	382
	{ Oxford ...	29.774	56.2	51.0	63.8	57.4	41	11 th	72	19 th	385
5. ENGLAND, S.	{ London ...	29.780	57.8	52.4	65.5	59.0	43	12 th	72	22 nd	387
	{ Dungeness ...	29.777	56.7	52.8	62.2	57.5	41	11 th	67	28 th	393
	{ Hurst Castle ...	29.882	57.4	53.5	63.1	57.3	43	11 th	69	19 th	425
6. SCOTLAND, W.	Ardrossan ...	29.721	54.4	49.8	59.8	54.8	42	12 th	70	18 th 19 th	364
7. ENGLAND, N.W.	{ *Hawes Junction ...	28.509	50.8	45.9	57.3	51.6	36	11 th	68	19 th	333
	{ Barrow-in-Furness ...	29.727	54.2	51.5	60.2	55.9	44	1 st 11 th	67	19 th	372
	{ Liverpool Obs ^y (Bidston)	29.739	55.8	51.9	62.0	57.0	45	11 th	69	20 th	337
	{ Holyhead ...	29.731	55.2	51.4	60.3	55.9	43	11 th	65	19 th	384
8. ENGLAND, S.W.	{ Pembroke ...	29.757	55.6	52.9	59.0	56.0	45	11 th	65	19 th	413
	{ Prawle Point ...	29.805	56.7	50.7	61.1	56.9	42	11 th	66	10 th 12 th	415
9. IRELAND, N.	{ Malin Head ...	29.752	53.2	50.4	57.1	53.8	42	11 th	67	22 nd	366
	{ Donaghadee ...	29.733	54.4	50.7	60.0	55.4	44	11 th	66	25 th	386
	{ Mullaghmore ...	29.735	55.7	51.4	60.8	56.1	42	1 st 11 th	67	19 th	373
	{ Belmullet ...	29.747	55.9	52.0	60.1	56.1	47	1 st 11 th 20 th	65	14 th 22 nd	374
10. IRELAND, S.	{ Parsonstown ...	29.752	55.9	49.8	63.9	56.9	39	11 th	71	19 th	367
	{ Valencia ...	29.773	58.2	52.3	62.2	57.2	48	1 st 5 th 11 th	67	6 th	404
	{ Roche's Point ...	29.755	57.5	52.1	62.2	57.2	45	11 th	66	12 th	388
CHANNEL ISLANDS.	{ Scilly (St. Mary's) ..	29.781	58.5	53.7	61.6	57.7	49	11 th	66	6 th 7 th	417
	{ Jersey ...	29.847	59.0	54.8	63.7	59.3	47	14 th	69	15 th	416

* Hawes Junction is 1135 feet above mean Sea Level and the

* Hawes Junction is 1135 feet above mean Sea Level and the

STATIONS in the BRITISH ISLANDS during the Month of JULY 1888.
 Thunderstorms and Gales are counted irrespective of the hours at which they occurred.
 Latitude, beginning in each case with the Station lying furthest North.)

Relative Humidity	Amount of Cloud	Rainfall.			Weather							Wind								
		Total Fall in the month	Maximum Fall in one day	Date	No. of Days of							No. of Observation of								
		ins.	in.		Rain	Snow	Hail	Thunderstorms	Clear Sky	Overcast	Gales	North	N.E.	East	S.E.	South	S.W.	West	N.W.	Calms
%																				
83	76	1.65	0.34	23 rd	6	0	0	0	4	16	0	11	8	2	1	1	0	1	0	7
88	86	2.16	0.43	23 rd	15	0	0	1	1	22	3	4	7	7	4	2	0	1	5	1
92	90	1.37	0.25	21 st & 22 nd	17	0	0	0	2	26	4	2	8	8	3	2	3	2	0	3
86	74	3.27	0.70	22 nd	20	0	0	1	4	16	0	4	3	8	1	0	2	5	1	7
79	74	4.39	1.27	22 nd	18	0	0	1	3	15	1	6	6	2	3	4	2	1	7	0
81	79	4.42	0.72	22 nd	21	0	0	4	4	18	0	0	5	11	1	1	0	6	7	0
87	84	5.03	1.37	26 th	20	0	0	2	2	21	1	8	4	3	0	3	3	6	3	1
84	70	6.13	0.81	17 th	22	0	0	1	7	15	0	6	5	4	1	3	3	5	4	0
87	57	5.22	0.83	4 th	22	0	1	2	3	4	4	8	5	2	1	3	7	2	3	0
83	54	3.99	0.55	10 th	19	0	1	6	7	2	0	5	2	1	3	2	4	7	6	1
84	80	3.92	0.54	21 st & 22 nd	23	0	0	7	0	15	0	9	1	1	2	4	11	0	0	3
86	92	4.40	0.64	29 th	22	0	0	11	0	24	2	4	5	2	3	2	5	6	3	1
85	76	4.46	0.81	2 nd	26	0	1	2	4	16	1	3	1	2	1	7	9	1	6	1
81	83	5.94	1.05	6 th	23	0	0	8	3	21	1	2	1	1	1	3	9	4	6	4
85	75	3.05	0.81	27 th	20	0	0	1	0	9	4	2	1	3	0	1	11	9	4	0
91	70	3.34	0.86	2 nd	23	0	0	2	2	8	9	2	2	3	1	2	10	7	4	0
86	83	3.63	0.80	2 nd	20	0	0	0	3	21	0	0	10	2	0	4	3	1	4	7
89	82	8.25	3.18	25 th	25	0	1	2	4	23	0	4	5	6		6	6	0	1	0
89	85	6.99	1.24	2 nd	23	0	0	0	1	22	4	4	7	1		3	6	1	4	0
88	86	5.06	0.81	2 nd	22	0	0	3	0	21	1	0	4	6		4	4	4	3	0
88	73	3.74	0.81	2 nd	22	0	0	2	3	12	1	3	4	3		6	6	2	3	3
93	70	6.18	1.93	15 th	21	0	0	1	2	11	2	11	1	1	4	7	5	2	7	0
90	72	3.27	0.35	27 th	22	0	0	3	3	13	2	1	1	3	2	6	7	5	5	1
91	91	4.14	1.02	27 th	23	0	0	2	1	24	0	5	1	5	5	4	1	6	4	0
92	77	6.03	1.44	27 th	24	0	0	1	2	17	2	2	7	5	5	4	4	4	0	0
84	6.8	4.81	0.87	27 th	23	0	0	2	1	5	2	3	2	5	2	3	5	4	5	2
84	8.5	2.82	0.60	2 nd	20	0	0	0	1	20	0	6	3	3	4	4	2	4	5	0
81	7.1	4.37	1.01	27 th	21	0	0	3	2	13	0	0	2	1	1	1	4	1	4	17
83	8.5	4.00	0.60	8 th	23	0	0	0	0	20	2	5	1	2	2	3	6	5	5	2
82	5.0	7.85	1.25	4 th	20	0	0	1	8	4	3	8	2	0	4	2	4	5	6	0
85	78	3.41	0.63	26 th	23	0	0	0	1	16	5	4	1	0	2	3	7	6	7	1
84	7.1	5.54	1.13	15 th	23	0	1	2	3	15	4	0	1	3	3	3	7	7	7	0

Barometric Observations at this Station are not corrected for altitude.

2. CORRECTIONS.

DATE.	STATIONS.	+ YESTERDAY EVENING.					8 A.M. TO DAY.								PAST 24 HOURS.			
		Barometer at 32° F. and Sea Level.	Temp. in Shade.	WIND.		Weather.	BAROMETER.		SHADE TEMP.			WIND.		Weather.	Sea. (0 to 2.)	SHADE TEMP.		Amount of Rainfall.
				Dirac.	Force. (0 to 12.)		Reading at 32° F. and Sea Level.	Difference from 8 a.m. yesterday.	Dry.	Wet.	Difference from 8 a.m. yesterday.	Dirac.	Force. (0 to 12.)			Max.	Min.	
1	Malin Hd..	-	-	-	-	-	-	-	-	-	-	-	-	2	-	-	-	
3	Malin Hd..	-	-	-	-	-	-	-	-	-	-	-	-	-	55	-	-	
-	Belmullet..	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.60	
6	Belmullet	-	-	-	-	-	29.76	+ .41	-	-	-	-	-	-	-	-	-	
-	Liverpool..	-	-	-	-	-	-	-	-	-	-	-	-	-	-	50	0.15	
-	Jersey	-	-	-	-	-	-	-	-	-	-	-	-	-	64	-	-	
-	Malin Hd 2pm	-	-	-	-	-	29.86	-	53	48	-	-	-	-	-	-	-	
7	Bungness	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.14	
-	Mullaghmore	-	-	-	-	-	-	-	57	-	-	-	-	-	-	-	-	
8	York	-	-	-	-	-	-	-	-	-	-	-	-	-	-	47	-	
9	Malin Hd..	29.92	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	Prawle Pt..	-	-	-	-	-	-	-	-	-	-	-	-	-	-	48	-	
10	Mullaghmore	-	-	-	-	-	-	-	-	-	-	-	-	-	53	-	-	
11	Malin Hd..	-	-	-	-	-	30.01	-	-	-	-	-	-	-	-	-	-	
-	Belmullet	-	-	-	-	-	-	-	-	-	-	-	-	-	54	-	-	
12	Mullaghmore	-	-	-	-	-	-	-	-	49	-	-	-	-	-	-	-	
-	Cambridge	29.79	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
13	Mullaghmore 2pm	-	-	-	-	-	-	-	-	-	-	NE	-	-	-	-	-	
14	Donaghadee	-	-	-	-	-	-	-	-	-	-	-	-	-	59	-	-	
16	Nairn	-	-	-	-	-	-	-	-	-	-	NE	-	-	-	-	-	
-	Mullaghmore	29.66	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
17	Spurn Hd..	-	-	-	-	-	-	-	-	-	-	-	-	-	57	-	-	
-	Barrow-in-Furness	-	-	-	-	-	-	-	-	-	-	-	-	-	-	51	-	
18	Mullaghmore	29.61	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
21	Mullaghmore	-	-	-	-	-	-	-	-	-	-	-	-	-	-	53	-	
-	Parsonstown	-	67	-	-	-	-	-	-	-	-	-	-	-	67	-	-	
22	Belmullet	-	-	-	-	-	-	-	-	-	-	-	-	-	64	-	-	
-	Jersey 2pm	-	-	-	-	-	29.84	-	-	-	-	-	-	-	-	-	-	
24	Jersey	-	-	-	-	-	-	-	-	-	-	-	-	-	65	-	-	
27	Shields	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.18	
-	London	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.02	
29	Scilly	-	-	-	-	-	-	-	-	-	-	-	-	4	-	52	-	
30	Parsonstown	-	-	-	-	-	-	-	55	-	+ 3	-	-	-	62	-	-	