

METEOROLOGICAL OFFICE

✓  
LONDON.

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DAILY WEATHER REPORTS.

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

1887.



July to December 1887.

*Map Showing Stations*



*Food: Dandelion and Lamb Greens*



# DAILY WEATHER REPORT.

for

Friday 1<sup>st</sup> July

1887.

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.	
			Direc.	Force. (0 to 12.)		Reading at 32° F. and Sea Level.	Difference from 8 a.m. yesterday.	Dry.	Wet.	Difference from 8 a.m. yesterday.	Direc.	Force. (0 to 12.)			Max.	Min.		
SCANDINAVIA.																		
Haparanda ...	29.76	55	Z	0	e	29.62	-0.07	53	50	-1	S	4	0	*	66	48	-	
Hernösand ...	29.94	62	N.W.	2	e	29.88	-0.00	68	64	+5	SSW	4	c	*	75	54	-	
Stockholm ...	30.01	60	SSE	2	b	30.00	+0.04	71	64	+7	ESE	2	b	*	77	57	-	
Wisby ...	29.96	64	SSW	2	b	29.98	+0.02	66	60	+7	W	2	b	*	77	55	-	
Bodö ...	29.88	67	WSW	7	r	29.82	-0.33	46	45	+1	WSW	9	r	6	50	45	0.83	
Christiansund...	30.03	53	WSW	6	f	29.99	-0.09	53	53	+1	WSW	7	r	4	54	48	0.32	
Skudesnaes ...	30.27	54	NW	2	o	30.22	-0.07	55	55	+1	WNW	1	r	3	55	54	0.08	
Christiania Fjord (Fjord)	30.01	65	WSW	2	b	30.05	-0.05	65	59	+2	WSW	2	b	1	66	63	-	
Skagen (The Sound)	30.04	62	W	1	b	30.07	-0.06	62	59	-1	N	1	b	1	75	52	-	
Fanö ...	30.22	54	NW	6	o	30.16	-0.05	59	57	-3	NW	6	c	*	64	54	-	
BRITISH ISLANDS.																		
Sumburgh Head	30.23	55	W	3	o	30.16	-0.14	56	56	+2	W	2	o	3	60	51	0.01	
Stornoway ...	30.33	62	SW	1	m	30.16	-0.18	62	60	-2	SW	1	c	1	66	56	0.03	
Wick ...	30.32	71	NW	3	bc	30.20	-0.18	69	63	+7	SW	2	bc	0	77	60	0.03	
Nairn ...	30.33	72	WSW	3	c	30.24	-0.16	69	61	+4	W	1	b	1	79	54	-	
Aberdeen...	30.35	66	SSW	1	c	30.25	-0.16	72	64	+3	S	1	bc	1	75	58	-	
Leith ...	30.33	72	E	1	b	30.29	-0.14	67	61	+1	NW	1	bm	*	79	54	-	
Shields ...	30.35	62	E	1	m	30.28	-0.15	68	62	+3	W	2	bm	2	71	55	-	
Spurn Head ...	30.39	62	SSE	3	b	30.33	-0.14	64	60	+4	WNW	2	bm	2	64	57	-	
York ...	30.37	74	S	2	b	30.33	-0.15	67	62	0	WNW	1	b	*	78	56	-	
Loughborough	30.39	75	ESE	2	b	30.37	-0.11	62	60	-5	ESE	1	o	*	79	52	-	
GERMANY.																		
Ardrossan ...	30.36	65	ESE	3	b	30.30	-0.15	64	60	+4	Z	0	bm	0	69	50	-	
Malin Head ...	30.41	65	N	1	o	30.30	-0.17	63	63	+4	SSW	2	om	1	68	56	-	
Mullaghmore ...	30.41	67	WNW	2	b	30.32	-0.18	65	62	+1	Z	0	bm	0	69	56	-	
Belmullet ...	30.43	66	N	1	b	30.33	-0.17	64	60	+2	SW	1	o	*	68	55	-	
Donaghadee ...	30.41	65	NNE	3	b	30.33	-0.16	65	60	+4	NNE	3	b	1	70	49	-	
FRANCE & NETHERLANDS.																		
Barrow-in-Furness	30.36	65	NW	2	b	30.33	-0.13	60	59	-2	NW	2	bc	*	69	55	-	
Liverpool (Bidston)	30.38	65	WNW	1	b	30.34	-0.12	63	59	-1	W	1	b	2	76	55	-	
Holyhead ...	30.40	58	NW	1	b	30.35	-0.11	64	60	+3	Z	0	bm	0	64	52	-	
Parsonstown ...	30.41	73	Z	0	b	30.34	-0.15	65	61	+4	Z	0	c	*	73	50	-	
Valencia ...	30.41	69	WSW	2	cm	30.36	-0.11	64	61	-2	SW	2	om	2	71	65	-	
PENIN. SULA.																		
Roche's Point...	30.42	68	S	2	b	30.37	-0.11	68	64	+3	Z	0	bm	1	71	57	-	
Pembroke ...	30.38	67	NNE	3	b	30.37	-0.07	60	60	-2	ESE	2	b	1	69	54	-	
Scilly ...	30.37	66	Z	0	b	30.34	-0.10	61	59	-4	N	1	b	1	70	56	-	
Prawle Point ...	30.49	58	WSW	1	c	30.37	-0.10	64	58	+5	ESE	3	bm	2	64	51	-	
Jersey ...	30.38	64	ESE	3	c	30.32	-0.10	61	57	+3	NE	3	bm	3	66	54	-	
PENIN. SULA.																		
Hurst Castle ...	30.39	63	WSW	1	b	30.37	-0.09	64	60	+3	ESE	2	b	0	66	50	-	
Dungeness ...	30.35	60	E	4	b	30.34	-0.08	62	59	+4	ESE	2	b	3	64	50	-	
London ...	30.39	65	ESE	2	b	30.37	-0.10	63	58	+4	Z	0	bm	*	74	48	-	
Oxford ...	30.39	64	Z	0	b	30.38	-0.09	63	58	+1	SE	Z	b	*	67	50	-	
Cambridge ...	30.38	70	E	1	b	30.37	-0.10	66	60	+4	SW	1	b	*	75	46	-	
Yarmouth ...	30.41	64	NNE	3	b	30.35	-0.10	62	58	+4	NW	2	b	2	64	52	-	
Cuxhaven ...	30.44	54	WNW	6	o	30.21	-0.06	60	59	+1	WNW	4	o	*	60	54	-	
Berlin ...	30.17	64	WNW	1	b	30.19	-0.08	59	58	+2	Z	0	f	*	70	54	-	
Wiesbaden ...	*	*	*	*	*	30.24	-0.09	63	59	0	N	2	c	*	72	54	-	
Munich ...	30.15	64	NE	2	b	30.18	-0.09	62	58	+4	NE	2	c	*	72	52	-	
FRANCE & NETHERLANDS.																		
The Helder ...	30.34	59	N	3	b	30.32	-0.06	60	57	+1	WNW	3	c	2	63	57	-	
Brussels ...	*	*	*	*	*	30.32	-0.11	57	55	+1	NE	3	o	*	70	52	-	
Cape Gris Nez...	30.38	57	NE	5	c	30.35	-0.03	60	57	+4	NE	5	b	3	63	55	-	
Paris ...	30.28	63	NNE	4	o	30.27	-0.10	59	56	+3	NNE	4	b	*	67	53	-	
Brest ...	30.34	69	ESE	5	b	30.33	?	54	52	-5	E	4	o	3	62	50	-	
Lorient ...	30.30	68	NNE	4	b	30.29	-0.10	59	55	0	ESE	4	o	2	70	55	-	
Rocheftort ...	30.25	76	NNE	5	b	30.26	-0.08	60	57	0	ESE	5	b	2	64	54	-	
Belfort ...	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	
Lyons ...	30.07	71	WNW	4	bc	30.13	-0.04	62	57	+5	WNW	3	b	*	75	7	-	
Nice ...	30.04	69	Z	0	T	30.06	+0.08	66	61	+6	Z	0	o	0	66	57	0.82	
Perpignan ...	30.07	77	NW	4	b	30.10	-0.02	74	61	+7	NW	4	b	*	81	62	-	
Biarritz ...	30.19	70	N	4	b	30.17	-0.07	67	62	+7	S	3	b	1	72	?	-	
PENIN. SULA.																		
Coranna ...	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	
Lisbon ...	29.45	77	WNW	7	r	30.00	0.00	73	64	+1	SSW	1	b	2	88	70	-	

For Explanation of Columns, see p. 4.



# WEATHER CHARTS

for 8 a.m. on Friday's 1<sup>st</sup> JULY 1887.

## 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.

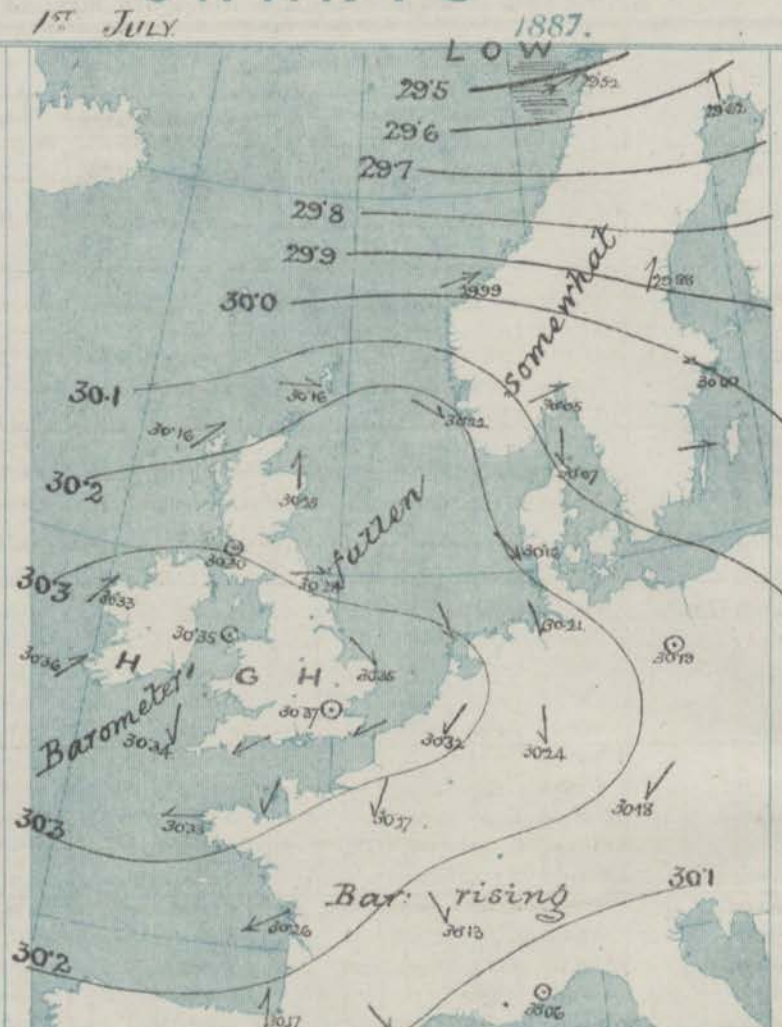
**Sea Disturbance** — where considerable is shown thus

— Rough. — High.

## MEAN HEIGHT of the BAROMETER

at 8 a.m. for the month of July.  
 During the 10 Years 1871—1880.

STATIONS.	MEAN READINGS.
	in.
Sumburgh Head	29.827
Stornoway	29.799
Wick	29.813
Nairn	29.824
Aberdeen	29.829
Leith	29.848
Shields	29.873
York	29.902
Ardrossan	29.884
Donaghadee	29.878
Holyhead	29.914
Liverpool	29.910
Valencia	29.944
Roche's Point	29.940
Pembroke	29.942
Scilly	29.986
Hurst Castle	29.961
Dover	29.959
LONDON	29.955
Oxford	29.941
Cambridge	29.937
Yarmouth	29.934





# GENERAL SITUATION AT 8 A.M.

PRESSURE	Highest, 30.3 in: and more over Ireland, England, and the north of France. Lowest, 29.5 in: in the north of Norway, 30.0 in: at Lisbon, 30.1 in: over the south-east of France. Gradients moderate in the north of Scandinavia, slight elsewhere. Barometer falling except in south of France.
TEMPERATURE	Highest, 74° at Kerpigman, 73° at Lisbon, 72° at Aberdeen, 71° at Stockholm, 69° at Nain and 67° at York. Lowest, 46° at Bodo, 56° at Lumburg H <sup>ts</sup> , 57° at Brussels, and 59° at Paris. Its distribution is therefore somewhat abnormal. The thermometer is rising over the British Isles.
WIND	Blows a gale from SW. in the west of Norway — it is light SW <sup>ly</sup> on our extreme west and north-west coasts — from WNW. in the north of England — from ENE. in the Channel. Moderate from NE. in the north and west of France, and from N. over Western Germany.
WEATHER	Very rainy in the west of Norway — dull in the north of Scotland. Fine generally elsewhere, but hazy in places. Much rain has fallen again in Norway, and a considerable quantity at Kiev, but only a little in the north of Scotland.
SEA	Smooth

## PROBABLE CHANGES IN SYSTEM NOW PREVALENT



The anticyclone is now more definite in form than of late, and is inclined to move south-eastwards slowly. Fine warm weather is however, still likely except in the extreme north and north-west.

## FORECASTS

for the 24 hours ending at NOON on 2<sup>nd</sup> July

1887.

DISTRICTS.	FORECASTS.	DISTRICTS.	FORECASTS.
0 { SCOTLAND NORTH	SW <sup>ly</sup> breezes, moderate; some showers.	6 { SCOTLAND WEST	Same as No 0.
1 { SCOTLAND EAST	W <sup>ly</sup> breezes, light; fine, warm.	7 { ENGLAND N. W.	Same as No 9.
2 { ENGLAND N. E.	----- D° ----- D° ----- D° -----	8 { ENGLAND S. W.	E <sup>ly</sup> airs; fine, warm.
3 { ENGLAND EAST	Calms and variable airs; warm in daytime, cool at night, dry.	9 { IRELAND NORTH	SW <sup>ly</sup> breezes, freshening; fine to showery.
4 { MIDLAND COUNTIES	----- D° ----- D° ----- D° -----	10 { IRELAND SOUTH	----- D° ----- D° ----- D° -----
5 { ENGLAND SOUTH	NE <sup>ly</sup> airs and calms, fine, warm in day, cool and hazy at night.	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 ...	30.29	54	54	NW 6	0	4	Holyhead ...	30.45	61	57	NW 1	6	1
Samburgh Head ...	30.17	57	55	W 3	0	3	Valencia ...	30.44	71	64	SW 3	bcm	3
Stornoway ...	30.36	64	63	SW 1	OTM	1	Scilly ...	30.42	65	60	SE 3	bcm	2
Aberdeen ...	30.40	70	61	S 1	C	1	Dungeness ...	30.38	63	57	ESE 3	C	3
Shields ...	30.37	67	60	E 2	bcm	2	London ...	30.43	64	50	NNE 2	0	*
Ardrossan ...	30.42	67	62	WNW 3	C	2	Yarmouth ...	30.44	63	58	NNE 3	6	3
Malin Head ...	30.44	66	66	NW 1	0	1	Jersey ...	30.40	63	57	ESE 4	e	3
Mullaghmore ...	30.46	66	60	WNW 4	6	2	Rochefort ...	30.28	82	69	ESE 4	6	2
Belmullet ...	30.47	67	65	N 1	6	*							

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

Yesterday morning reports showed that pressure varied from between 30.4 ins. and 30.5 ins. over the British Isles and from 30.1 ins. and more in a broad band stretching from our coast across Germany and Austria to the Black Sea to about 29.7 ins. over Northern Europe, and to about 30 ins. over the Mediterranean. The winds were consequently, W and NW over Northern Europe, with changeable weather and rain at times, while they were NE in the west, with fair <sup>weather</sup> generally. Thunderstorms had, however, occurred in the south of France and north of Italy during the night. Temperature remained locally low over France and the south of England, but showed signs of rising over Russia, Poland and Austro-Hungary. The highest values were 85° at Biskra (Algeria), 81° at Oporto, 78° at San Fernando, 77° at Cagliari and Palma, 75° at Brindisi and Malta, 72° at Barcelona and Lisbon, 69° at Aberdeen, 66° at Valencia and Stockholm; the lowest 45° at Rode, 43° at Archangel, 54° at Lumburgh H. and Skudesnaes, 56° at Paris and 57° at Lyons.

Later in the day the barometer began to fall slowly in most places, and temperature rose greatly over Scotland. Over France and England, however, the night was cold — almost frosty in 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 2<sup>nd</sup> July

1887.

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 ..	29.68	SW	2	c	29.62	-.00	53	49	0	SW	2	0	*	66	43	0.04	
	Hernösand ...	29.84	SW	2	b	29.75	-.13	69	60	+4	W	2	0	*	79	55	-	
	Stockholm ...	29.93	W	0	b	29.89	-.11	75	67	+4	W	2	0	*	82	55	-	
	Wisby ...	29.93	S	4	b	29.94	-.04	66	59	0	W	2	0	*	82	57	-	
	Bodö ...	29.78	WSW	4	0	29.57	+.05	?	44	?	NE	?	?	1	46	43	0.32	
	Christiansund...	29.83	WSW	6	+	29.77	-.22	53	49	0	WSW	9	+	5	59	?	0.75	
	Skudesnaes ...	30.15	WNW	2	0	30.01	-.21	53	53	-2	SSE	2	+	3	89	?	-	
	Christiania Fjord (Færder)	29.95	WNW	2	b	29.94	-.11	64	59	-1	WSW	6	0	2	72	63	-	
	Skagen (The Scaw)	30.00	WNW	2	b	30.01	-.06	64	60	+2	WNW	3	0	2	77	55	-	
	Fanö ...	30.17	SW	4	0	30.17	+.01	64	60	+5	WNW	4	0	*	68	55	-	
BRITISH ISLANDS.	Sumburgh Head	30.04	W	3	c	29.99	-.17	54	51	-2	W	2	0	3	64	50	0.02	
	Stornoway ...	30.08	W	4	Om	30.05	-.11	56	55	-6	W	0	0	0	66	52	0.04	
	Wick ...	30.11	E	1	bc	30.10	-.10	59	56	-10	N	3	0	0	75	54	-	
	Nairn ...	30.12	W	2	bc	30.14	-.10	60	54	-9	W	1	0	2	78	59	-	
	Aberdeen...	30.08	WSW	1	b	30.12	-.13	63	59	-9	N	2	0	2	76	53	-	
	Leith ...	30.16	SW	3	b	30.17	-.12	68	61	-1	SW	4	0	*	80	58	-	
	Shields ...	30.17	W	3	bc	30.19	-.09	71	63	+3	SW	3	0	2	77	57	-	
	Spurn Head ...	30.21	SSE	2	bc	30.23	-.10	64	60	0	SW	1	0	2	74	59	-	
	York ...	30.21	W	2	b	30.23	-.10	67	61	0	WNW	1	0	*	81	53	-	
	Loughborough	30.23	SW	2	b	30.26	-.11	68	63	+6	W	1	0	*	79	55	-	
GERMANY.	Ardrossan ...	30.21	WSW	2	0	30.20	-.10	58	57	-6	SW	3	0	2	68	56	0.04	
	Malin Head ...	30.21	W	3	0	30.20	-.10	57	56	-6	?	2	0	1	69	56	0.09	
	Mullaghmore ...	30.26	SW	2	Om	30.24	-.08	65	62	0	SW	4	0	2	69	61	-	
	Belmullet ...	30.27	WSW	1	0	30.25	-.08	64	62	0	WSW	2	0	*	68	62	-	
	Donaghadee ...	30.20	SE	4	b	30.24	-.09	66	63	+1	W	2	0	0	74	58	-	
	Barrow-in-Farress	30.23	W	1	b	30.23	-.10	62	60	+2	WNW	3	0	*	69	58	-	
	Liverpool (Bidston)	30.26	SW	1	b	30.27	-.07	64	60	+1	W	1	0	2	73	58	-	
	Holyhead ...	30.27	SW	2	bm	30.28	-.07	63	59	-3	W	0	0	0	70	55	-	
	Parsonstown ...	30.26	WNW	1	b	30.30	-.04	65	62	0	W	0	0	*	77	52	-	
	Valencia ...	30.30	SW	2	bm	30.31	-.05	64	61	0	SW	1	0	1	71	53	-	
FRANCE & NETHERLANDS.	Roche's Point...	30.28	SSE	3	b	30.29	-.08	65	60	-3	N	1	0	1	72	60	-	
	Pembroke ...	30.28	SE	1	m	30.28	-.09	58	58	-2	SE	1	0	0	64	54	-	
	Scilly ...	30.29	ESE	1	b	30.27	-.07	66	63	+5	NE	2	0	2	70	58	-	
	Prawle Point ...	30.29	ESE	1	b	30.28	-.09	67	61	+3	E	1	0	1	68	55	-	
	Jersey ...	30.25	ESE	4	b	30.25	-.07	68	60	+7	ESE	2	0	2	70	56	-	
	Hurst Castle ...	30.28	WSW	2	b	30.27	-.10	64	59	0	ESE	1	0	0	71	52	-	
	Dungeness ...	30.28	ESE	2	b	30.26	-.08	65	61	+3	NE	1	0	0	68	50	-	
	London ...	30.25	ESE	1	b	30.26	-.11	69	61	+6	W	1	0	*	78	51	-	
	Oxford ...	30.25	E	1	c	30.26	-.12	70	65	+7	W	0	0	*	77	56	-	
	Cambridge ...	30.23	SW	1	b	30.25	-.12	70	61	+4	N	1	0	*	82	52	-	
PENINSULA.	Yarmouth ...	30.27	SSE	2	b	30.24	-.11	69	62	+7	SW	1	0	1	69	55	-	
	Cuxhaven ...	30.18	WNW	3	b	30.18	-.03	61	60	+1	WNW	2	0	*	62	55	-	
	Berlin ...	30.14	W	0	bc	30.19	+.00	64	59	+5	SW	3	0	*	72	55	-	
	Wiesbaden ...	*	*	*	*	30.23	-.01	65	59	+2	N	1	0	*	75	52	-	
	Munich ...	30.17	SW	1	0	30.23	+.05	66	61	+4	SE	1	0	*	77	55	-	
	The Helder ...	30.25	W	0	b	30.25	-.07	64	60	+4	W	1	0	1	70	59	-	
	Brussels ...	*	*	*	*	30.26	-.06	64	60	+7	WNW	1	0	*	71	?	-	
	Cape Gris Nez...	30.27	ESE	2	b	30.27	-.08	59	59	-1	W	0	0	0	66	55	-	
	Paris ...	30.20	NE	4	b	30.24	-.03	63	59	+4	N	1	0	*	75	53	-	
	Brest ...	30.23	E	5	b	30.25	-.08	60	58	+6	E	4	0	2	82	52	-	
PENINSULA.	Lorient ...	30.20	SW	3	b	30.23	-.06	63	59	+4	E	3	0	2	77	57	-	
	Rochefort ...	30.17	SW	4	b	30.12	-.14	68	64	+8	NE	4	0	2	86	?	-	
	Belfort ...	30.11	NE	1	b	30.19	+.02	68	59	+7	NE	3	0	*	?	55	-	
	Lyons ...	30.05	N	3	b	30.15	+.02	69	62	+7	NE	1	0	*	81	60	-	
	Nice ...	30.02	W	3	b	30.07	+.01	71	61	+5	E	4	0	1	75	61	-	
	Perpignan ...	30.03	NE	1	b	30.10	+.00	77	70	+3	SW	1	0	*	89	62	-	
	Biarritz ...	30.08	NE	5	b	30.13	-.04	71	66	+4	W	0	0	0	75	64	-	
	Corunna ...	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	-	
	Lisbon ...	30.00	W	4	b	30.04	+.04	73	63	6	NE	3	0	2	82	68	-	

For Explanation of Columns, see p. 4.



# WEATHER CHARTS

for 8 a.m. on Saturday 2<sup>nd</sup> July, 1887.

## BAROMETER, WIND & SEA.

(Explanation of Map)

**Barometer** — Isotherms 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 heads and feathers refer to force, thus —

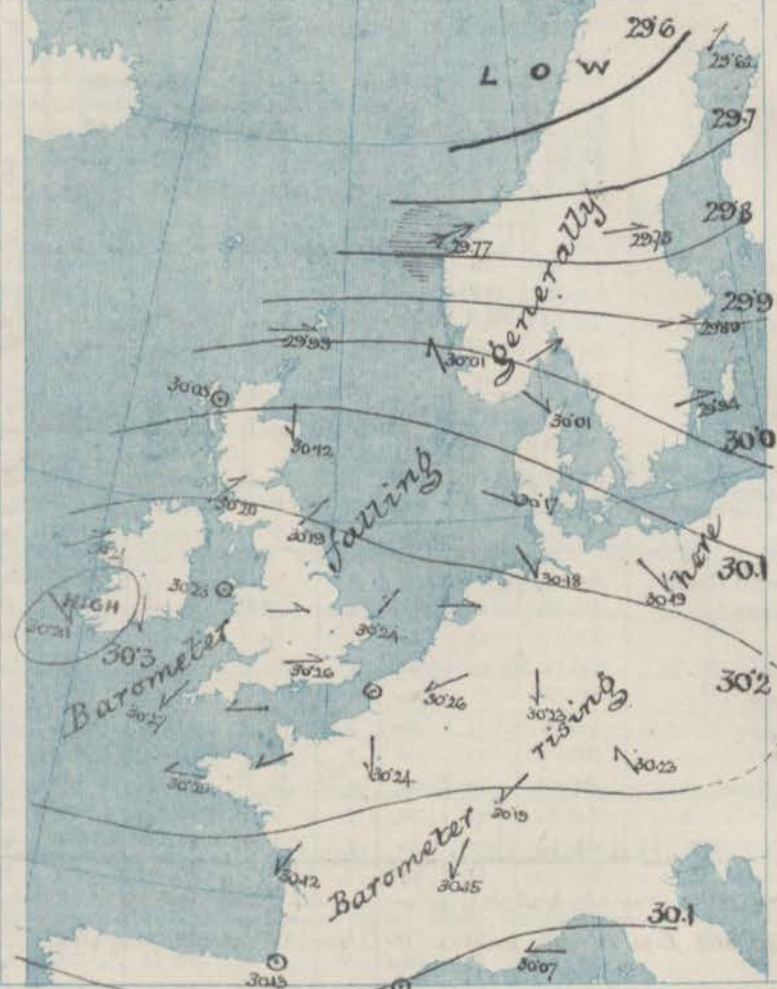
→ = forces above 10, → = forces 8 to 10,  
→ = forces 5 to 7, → = forces 1 to 4,  
○ = dead calm.

**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 10 Years 1871—1880.

STATIONS.	MEAN READINGS.
	in.
Sumburgh Head	29.827
Stornoway	29.799
Wick	29.813
Nairn	29.824
Aberdeen	29.829
Leith	29.848
Shields	29.873
York	29.902
Ardrossan	29.864
Donaghadee	29.878
Holyhead	29.914
Liverpool	29.910
Valencia	29.944
Roche's Point	29.940
Pembroke	29.942
Scilly	29.986
Hurst Castle	29.961
Dover	29.989
LONDON	29.955
Oxford	29.941
Cambridge	29.937
Yarmouth	29.934





# GENERAL SITUATION AT 8 A.M.

## PRESSURE

Highest, 30.3 in. at Valencia, 30.2 in. and more over Ireland, England, the north of France and Germany.  
Lowest, 30.00 in. over the south of Spain — 29.6 in. over Lapland.  
Gradient, slight. Barometer falling in the north, rising slowly in the south.

## TEMPERATURE

Highest, 77° at Perpignan, 75° at Stockholm, 75° at Lisbon, 71° at Biarritz, Nice and Shields, and 70° at Oxford and Cambridge.  
Lowest, 53° at Haparanda and in the west of Norway, 56° at Storöway, 57° at Malin Head, and 58° at St. Ann's Head.  
It has fallen fast in Scotland — risen over France and Germany.

## WIND

W<sup>ly</sup> and NW<sup>ly</sup> over the northern parts of our area — light in most places, a gale at Christiansund.  
E<sup>ly</sup> and NE<sup>ly</sup> over France and the Channel — W<sup>ly</sup> over Germany.

## WEATHER

Overcast in the western parts of Ireland and Scotland; foggy in the west of Norway;  
fine generally elsewhere. Cloudiness is gradually increasing in amount over the United Kingdom.  
[Rain has fallen in the north and west of Scotland and at Malin Head]

## SEA

Smooth generally.

## PROBABLE CHANGES IN SYSTEM NOW PREVALENT

As the barometer is rising slowly in France while it is falling over the northern parts of our area, W<sup>ly</sup> breezes are likely to become more general, and to freshen in the north and north-west, with a further increase of cloud and some rain. The cooler cloudy and less settled weather will probably spread very slowly in a southerly and easterly direction.

## FORECASTS

for the 24 hours ending at NOON on 3<sup>rd</sup> July 1887.

### DISTRICTS.

### FORECASTS.

0	SCOTLAND NORTH	W <sup>ly</sup> and NW <sup>ly</sup> breezes, moderate; some rain.
1	SCOTLAND EAST	NW <sup>ly</sup> breezes, light, cloudy.
2	ENGLAND N.E.	W <sup>ly</sup> and NW <sup>ly</sup> breezes, moderate, fine and warm, to cloudy and much cooler
3	ENGLAND EAST	-----D°-----D°-----
4	MIDLAND COUNTIES	-----D°-----D°-----
5	ENGLAND SOUTH	Variable airs and fine warm weather, then NW <sup>ly</sup> breezes and cooler

### DISTRICTS.

### FORECASTS.

6	SCOTLAND WEST	W <sup>ly</sup> and NW <sup>ly</sup> breezes, some rain.
7	ENGLAND N.W.	-----D°-----D°-----
8	ENGLAND S.W.	Same as N° 5.
9	IRELAND NORTH	Variable airs, fine generally.
10	IRELAND SOUTH	-----D°-----D°-----
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 ...	30.20	58	57	W 2	b	2	Holyhead ...	30.31	65	59	SW 2	b m	1
Sumburgh Head ...	30.09	63	58	W 3	e	3	Valencia ...	30.33	68	61	W 2	o m	2
Stornoway ...	30.08	65	63	W 4	o q	4	Scilly ...	30.31	70	61	W 1	b	1
Aberdeen ...	30.17	69	61	S 4	c	2	Dungeness ...	30.31	66	62	ENE 3	b	2
Shields ...	30.21	70	63	ENE 2	b m	2	London ...	30.30	74	62	SE 1	c	*
Ardrossan ...	30.26	66	61	W 2	c	1	Yarmouth ...	30.31	67	62	SE 2	b	2
Malin Head ...	30.24	68	68	W 1	o	0	Jersey ...	30.29	69	61	ENE 3	b	3
Mullaghmore ...	30.28	65	60	W 2	o m	1	Rochefort ...	30.22	80	71	W 4	b	2
Belmullet ...	30.30	67	60	W 1	o	*							

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

The reports for yesterday morning showed that pressures varied from 30.3 in. and more over Ireland and the north of France to about 29.5 in. over Lapland, to 29.7 in. over Central Russia, to 30.0 in. over the south of Portugal, and to 29.9 in. over Algeria. W<sup>ly</sup> winds were consequently prevalent at the northern stations, and were accompanied by much rain over Norway, but NE<sup>ly</sup> breezes were still prevalent over France and NW<sup>ly</sup> air over Germany and Austria. Over Central and Western Europe the weather was very fine, but in Algeria thunderstorms were very prevalent. Temperature showed some tendency to recover in France and the south of England from the low values lately prevalent there, but continued low over the North Sea. The highest values reported were 87° at Biskra (Algeria), 79° at Cagliari and C. Bearn, 78° at Malta, 76° at Brindisi, 74° at Perpignan, 73° at Lisbon & 71° at Stockholm; the lowest 46° at Bodo, 53° at Christiansund, 54° at Brest, 56° at Sumburgh Head, 57° at Brussels & 59° at Lams and Lorient.

During the day temperature rose considerably over England the east of Scotland and France, but later on it fell decidedly in Scotland and the weather there became unsettled, with showers in the western parts of the country.

### 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 3<sup>rd</sup> July

1887.

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

1888 BY THE METEOROLOGICAL OFFICE, 10, ADELPHI STREET, LONDON, W. R. 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 ...	29.52	SE	0	bc	29.59	-0.03	48	46	- 5	N	6	r	*	64	41	0.04	
	Hernösand ...	29.71	N	2	r	29.84	+0.09	52	44	- 17	SSW	6	b	*	72	?	0.49	
	Stockholm ...	29.80	SW	2	c	29.92	+0.03	61	53	- 14	NW	2	c	*	82	?	-	
	Wisby ...	29.89	W	4	b	29.90	-0.04	59	55	- 7	WNW	6	bc	*	82	?	-	
	Bodö ...	29.70	NW	4	c	29.87	+0.27	44	42	- 2	WSW	5	c	3	45	41	0.49	
	Christiansund ...	29.95	WNW	4	f	29.99	+0.22	47	46	- 6	NW	1	f	4	54	41	0.08	
	Skudesnaes ...	30.09	WNW	4	o	30.12	+0.11	56	54	+ 3	W	2	c	3	?	54	-	
	Christiania Fjord (Færd)	29.83	WNW	4	bc	30.01	+0.07	61	52	- 3	W	4	b	3	66	57	-	
	Skagen (The Scaw)	29.93	W	5	b	30.07	+0.06	59	56	- 5	WNW	6	bc	4	72	54	-	
	Fanö ...	30.17	WNW	4	bc	30.22	+0.05	65	59	+ 1	W	3	bc	*	68	52	-	
BRITISH ISLANDS.	Sumburgh Head	30.04	W	3	o	30.01	+0.02	51	50	- 3	SW	1	r	2	59	44	0.11	
	Stornoway ...	30.14	W	1	bc	29.89	-0.16	54	54	- 2	SW	1	or	1	63	52	0.07	
	Wick ...	30.18	NW	2	c	29.99	-0.11	56	54	- 3	S	3	o	0	70	50	-	
	Nairn ...	30.16	W	1	bc	30.02	-0.12	59	55	- 1	Z	0	o	0	72	49	-	
	Aberdeen ...	30.16	SE	2	b	30.05	-0.09	61	57	- 2	SW	1	o	1	68	48	-	
	Leith ...	30.16	W	3	c	30.10	-0.07	68	62	+ 2	WSW	2	o	*	75	58	-	
	Shields ...	30.15	W	2	c	30.16	-0.03	69	64	- 2	SSW	2	b.m.	2	79	60	-	
	Spurn Head ...	30.18	SSW	3	b	30.22	-0.01	64	61	0	NW	1	b	2	71	58	-	
	York ...	30.19	W	2	b	30.21	-0.02	70	64	+ 3	W	1	b	*	83	56	-	
	Loughborough	30.20	W	1	b	30.24	-0.02	70	62	+ 2	Z	0	b.m.	*	83	53	-	
GERMANY.	Ardrossan ...	30.21	WNW	1	o	30.13	-0.07	60	60	+ 2	SW	3	o	2	63	57	0.03	
	Malin Head ...	30.22	W	4	c	30.15	-0.09	65	62	0	SW	4	o	3	70	60	-	
	Mullaghmore ...	30.24	SW	1	o	30.14	-0.11	65	63	+ 1	SW	5	o	*	67	62	-	
	Donaghadee ...	30.24	NE	2	o	30.17	-0.07	71	65	+ 5	SW	2	c	0	75	55	0.02	
	Barrow-in-Furness	30.23	WNW	2	b	30.21	-0.02	66	63	+ 4	SE	3	bc	*	69	59	-	
	Liverpool (Bidston)	30.25	NW	1	b	30.22	-0.05	72	62	+ 8	SE	1	b	2	73	58	-	
	Holyhead ...	30.26	SSW	2	b	30.23	-0.05	64	60	+ 1	SSW	2	b.m.	1	72	56	-	
	Parsonstown ...	30.25	W	1	c	30.23	-0.07	67	62	+ 2	SW	1	b	*	75	56	-	
	Valencia ...	30.28	W	2	b	30.24	-0.07	64	62	0	NW	1	om	1	71	53	-	
	Roche's Point...	30.26	SSW	3	b	30.21	-0.08	65	61	0	rr	1	bc	2	72	59	-	
FRANCE & NETHERLANDS.	Pembroke ...	30.26	WNW	1	m	30.23	-0.05	64	61	+ 6	NE	1	b	0	64	56	-	
	Scilly ...	30.25	N	2	b	30.22	-0.05	64	62	- 2	N	1	b.m.	2	70	59	-	
	Prawle Point ...	30.24	NW	2	b	30.24	-0.04	67	62	0	Z	0	b.m.	0	73	57	-	
	Jersey ...	30.23	NW	2	b	30.20	-0.05	74	64	+ 6	E	2	b.m.	2	75	58	-	
	Hurst Castle ...	30.24	WSW	2	b	30.24	-0.03	69	64	+ 5	SE	1	b	0	72	56	-	
	Dungeness ...	30.22	S	1	b	30.22	-0.04	70	66	+ 5	E	2	b	0	79	57	-	
	London ...	30.20	SE	1	b.m.	30.23	-0.03	73	64	+ 4	SE	1	b	*	84	55	-	
	Oxford ...	30.20	Z	0	b	30.22	-0.04	70	63	0	Z	0	b	*	83	58	-	
	Cambridge ...	30.18	Z	0	o	30.22	-0.03	71	64	+ 1	Z	0	b	*	86	57	-	
	Yarmouth ...	30.21	SSW	2	bc	30.22	-0.02	64	62	- 5	S	1	b	1	71	60	-	
PENIN- SULA.	Cuxhaven ...	30.21	WNW	2	b	30.28	+0.10	64	60	+ 3	WNW	1	b	*	68	59	-	
	Berlin ...	30.13	NW	2	b	30.24	+0.05	66	60	+ 2	NW	1	b	*	82	61	-	
	Wiesbaden ...	*	*	*	*	30.26	+0.03	71	63	+ 6	N	2	b	*	81	57	-	
	Munich ...	30.25	SW	5	o	30.30	+0.07	66	61	0	SW	1	b	*	77	52	-	
	The Helder ...	*	*	*	*	30.24	-0.02	69	64	+ 5	NE	1	b	*	80	58	-	
	Brussels ...	*	*	*	*	30.25	-0.02	71	66	+ 12	Z	0	b	0	?	61	-	
	Cape Gris Nez...	30.24	NE	1	b	30.25	-0.02	71	66	+ 12	Z	0	b	0	?	61	-	
	Paris ...	30.19	N	3	b	30.23	-0.01	65	60	+ 2	NE	3	b	*	84	58	-	
	Brest ...	30.22	E	5	b	30.20	-0.05	63	58	+ 3	E	3	b	3	64	50	-	
	Lorient ...	30.21	NW	3	b	30.18	-0.05	64	61	+ 1	ENE	3	bc	2	84	61	-	
PENIN- SULA.	Rochefort ...	30.16	N	4	b	30.16	+0.04	71	66	+ 3	ENE	4	bc	2	90	59	-	
	Belfort ...	30.14	NE	1	bc	30.23	+0.04	71	62	+ 3	NE	2	b	*	83	52	-	
	Lyons ...	30.09	NE	3	b	30.18	+0.03	70	59	+ 1	N	1	b	*	85	62	-	
	Nice ...	30.11	Z	0	t	30.06	-0.01	74	63	+ 3	E	3	b	0	82	63	0.04	
	Perpignan ...	30.06	NE	3	b	30.11	+0.01	77	68	0	W	3	b	*	89	62	-	
	Biarritz ...	30.08	NE	3	b	30.06	-0.07	73	68	+ 2	Z	0	b	0	79	68	-	
	Corunna ...	*	*	*	*	30.04	-0.00	71	64	- 2	NW	4	b	2	86	66	-	
	Lisbon ...	30.00	NW	5	b	30.04	-0.00	71	64	- 2	NW	4	b	2	86	66	-	

For Explanation of Columns, see p. 4.



# WEATHER CHARTS

for 8 a.m. on Sunday, 3<sup>rd</sup> July

1887.

## 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 —

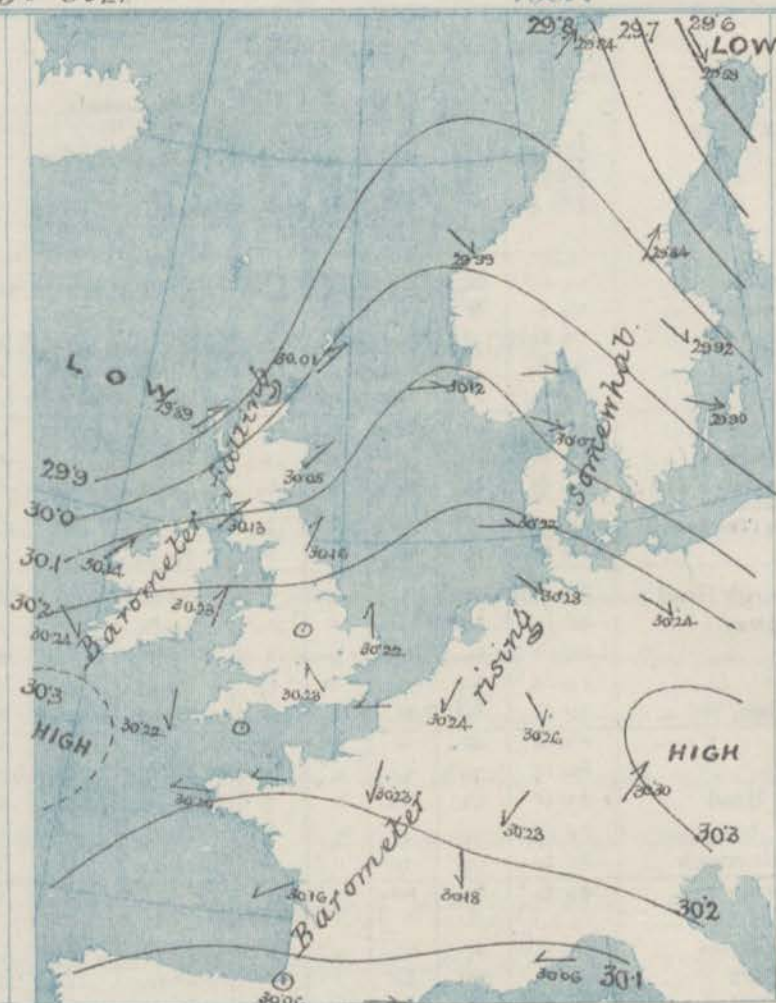
→ = force above 10, → = forces 8 to 10,  
→ = forces 5 to 7, → = forces 1 to 4,  
○ = dead calm.

**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 10 Years 1871—1880.

STATIONS.	MEAN READINGS.
Sumburgh Head	29.827
Stornoway	29.799
Wick	29.813
Nairn	29.824
Aberdeen	29.829
Leith	29.848
Shields	29.873
York	29.902
Ardrossan	29.864
Donaghadee	29.878
Holyhead	29.914
Liverpool	29.910
Valencia	29.944
Roche's Point	29.940
Pembroke	29.942
Scilly	29.986
Hurst Castle	29.961
Dover	29.959
LONDON	29.955
Oxford	29.941
Cambridge	29.937
Yarmouth	29.934





# GENERAL SITUATION AT 8 A.M.

## PRESSURE

Highest, 30.5 ins off the south-west coast of Ireland, and 30.2 ins in a band which covered the northern parts of Ireland, England, the north of France, and the whole of Germany. Lowest, 29.6 ins over Ireland, 29.9 ins over the south of Sweden and north of Norway, and also at Hovavoy; and about 30.0 ins over the north of Spain. Gradients, slight except in extreme north-west and over the north of Sweden. Barometer falling in the north, rising slightly in the south.

## TEMPERATURE

Highest, 77° at Leipzig, 76° at Nice and Jersey, 73° in London, 72° at Liverpool. Lowest, 44° at Rode, 47° at Christiansund, 45° at Copenhagen, 51° at Dunburgh Head, 61° at Aberdeen, 64° at Liffordmouth and 65° at Paris. [It had fallen rapidly over Sweden during the preceding night, but was rising fast over England. It was locally very low in and around Paris, where the readings were much lower than those in Belgium, West Germany and the southern and western central parts of France.]

## WIND

SW over the north-western and northern parts of the British Isles over the Gulf of Bothnia. Very variable over the greater part of Ireland, England, the North Sea and Germany. NE and E over France, NW over the southern parts of Portugal.

## WEATHER

Fall in Scotland and the west of Ireland, cloudy, or foggy in the west of Norway. Fine, and generally bright elsewhere, but with haze in the west and south-west of England. [Rain had again fallen over Scandinavia and had spread to the extreme north and north-west of our islands.]

## SEA

Moderate in the far north, smooth elsewhere.

## PROBABLE CHANGES IN SYSTEM NOW PREVALENT

The gradients for W and SW winds were evidently spreading southwards.

## FORECASTS

For the 24 hours ending at NOON on 4<sup>th</sup> July 1887.

### 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.

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 ...	30.06	58	57	W 6	c	3	Holyhead ...	30.27	68	61	W 1	b	1
Sumburgh Head ...	30.03	55	52	W 3	c	3	Valencia ...	30.30	70	63	W 2	b	2
Stornoway ...	30.09	61	58	W 3	b	2	Scilly ...	30.28	67	63	W 2	b	2
Aberdeen ...	30.12	62	57	W 2	c	2	Dungeness ...	30.25	66	63	W 1	b	0
Shields ...	30.20	77	66	W 2	c	2	London ...	30.22	79	65	W 0	c	*
Ardrossan ...	30.21	60	59	W 1	r	1	Yarmouth ...	30.22	68	64	S 4	b	2
Malin Head ...	30.12	57	57	W 1	o	0	Jersey ...	30.25	75	65	W 2	b	2
Mullaghmore ...	30.22	66	62	W 4	o	2	Rochefort ...	30.19	80	72	W 4	b	2
Belmullet ...	30.26	67	62	W 1	u	*							

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

The reports for yesterday morning showed that pressure was as high as 30.1 ins. to 30.3 ins. in a broad band which extended from the Atlantic (off the W. of Ireland) across England, the North of France and the Netherlands, to Germany, and Austria; from this band it decreased (1) in a northerly direction to about 29.5 ins. over Lapland and (2) to about 29.6 ins. on the shores of the White Sea. Thus, while northeasterly and easterly winds still prevailed over the Channel, France, and the Iberian Peninsula, southeasterly and westerly winds were felt over the northern parts of Europe and westerly and northwesterly airs over the northern half of the British Islands. The weather was, on the whole, fine and warm, but rain fell at times at the more northern stations and also at some of the Mediterranean ports while at Berne a thunderstorm had occurred over-night. Temperature varied from between 75° and 85° over the western parts of the Mediterranean and Algeria and from 70° and more over the south of Sweden and the southern shores of the Baltic to somewhat below 50° over Lapland and to very little above that value over some parts of Finland. The highest individual values were 83° at Biskra and 82° at Laghout (Algeria) 81° at Cagliari, 80° at Gporto, Barcelona and Bilbao, 77° at Perpignan, 75° at Stockholm, 74° at Corunna, 73° at Lisbon, 70° at Oxford and Cambridge, and 69° even as far north as Hernösand; the lowest were 47° at Bodö, 53° at Haparanda, Christiansund, and Skudonæs, 54° at Sumburgh Head, 57° at Malin Head, and 64° at Paris.

No important change occurred later except that the barometer began to fall generally - but slowly - and the southeasterly wind in the north showed signs of becoming more general, while sharp thunder-showers occurred locally in the northwest.

### 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 8 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 4<sup>th</sup> July 1887.

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

Issued by the Meteorological Office, 16, Victoria Street, London, W. 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 Rain.	
			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 ..	29.72	50	Z	0	C	?	?	52	47	+ 4	S	2	b	*	59	43	-	
Hernösand ...	29.91	56	Z	0	C	29.71	- 13	54	50	+ 2	NE	2	o	*	61	46	-	
Stockholm ...	29.96	59	S	2	b	29.87	- 05	61	59	0	SSW	2	r	*	73	55	-	
Wisby ...	29.97	60	S	4	b	29.94	+ 04	67	60	+ 8	WSW	6	c	*	75	57	-	
Bodö ...	29.89	64	WSW	4	b	29.73	- 11	46	42	+ 2	NNE	2	b	1	46	37	-	
Christiansund...	29.83	49	S	1	r	29.80	- 39	50	49	+ 3	NW	1	r	3	50	45	0.45	
Skudesnaes ...	29.88	54	SSW	6	r	29.78	- 34	56	55	0	WSW	2	o	4	57	52	-	
Christiania Fjord (Vårder)	?	59	SW	8	c	29.96	- 25	61	59	0	SW	8	o	5	64	57	-	
Skagen (The Scaw)	30.00	59	W	1	o	29.87	- 20	64	59	+ 5	WSW	2	b	2	66	55	-	
Fanö ...	30.09	56	Z	0	C	29.97	- 25	68	62	+ 3	SW	4	b	*	68	55	-	
BRITISH ISLANDS.																		
Sumburgh Head	29.80	56	SW	3	r	29.82	- 19	50	46	- 1	NW	3	o	3	56	47	0.29	
Stornoway ...	29.77	60	W	4	o	29.86	- 03	52	52	- 2	SW	1	or	1	65	50	0.14	
Wick ...	29.74	68	W	5	c	29.91	- 08	53	50	- 3	NW	2	o	0	70	49	0.06	
Nairn ...	29.81	68	NW	4	c	29.92	- 10	56	53	- 3	Z	0	b	1	73	53	-	
Aberdeen...	29.86	70	SW	5	o	29.92	- 13	56	52	- 5	NE	1	og	2	74	54	-	
Leith ...	29.98	71	WSW	4	c	29.93	- 17	56	55	- 12	W	1	o	*	77	55	0.12	
Shields ...	30.02	76	W	3	b	29.92	- 24	65	63	- 4	SSW	1	o	1	79	61	0.06	
Spurn Head ...	30.07	63	SSW	4	b	29.99	- 23	65	64	+ 1	NW	2	b	2	70	60	-	
York ...	30.07	80	W	2	b	29.99	- 22	69	66	- 1	W	1	b	*	85	56	-	
Loughborough	30.08	83	WSW	1	b	30.02	- 22	73	64	+ 3	WSW	2	b	*	86	55	-	
GERMANY.																		
Arrossan ...	30.11	61	SSW	2	o	29.95	- 18	58	56	- 2	NW	2	c	1	63	52	0.28	
Malin Head ...	30.00	60	SW	4	o	29.96	-	57	55	-	W	3	o	2	67	55	9.20	
Mullaghmore ...	30.08	64	WSW	5	o	30.02	- 13	61	58	- 4	NW	5	c	4	72	37	0.51	
Belmullet ...	30.10	64	WSW	3	o	30.05	- 09	60	56	- 5	NW	3	c	*	67	56	0.36	
Donaghadee ...	30.06	73	WSW	3	c	29.98	- 19	66	56	- 15	NE	3	o	1	80	53	0.22	
Barrow-in-Furness	30.09	67	SSW	3	b	29.98	- 23	63	61	- 3	SW	4	o	*	71	61	-	
Liverpool (Lidston)	30.11	69	NW	1	b	30.00	- 22	69	64	- 3	W	1	b	3	78	60	-	
Holyhead ...	30.13	67	SSW	2	b	30.02	- 21	63	60	- 1	SW	2	cm	2	71	57	-	
Parsonstown ...	30.14	68	WSW	1	c	30.03	- 20	64	62	- 3	SW	1	o	*	74	61	0.25	
Valencia ...	30.09	67	W	3	o	30.09	- 15	67	64	+ 3	WSW	3	c	3	68	60	0.02	
Roche's Point...	30.14	72	W	1	b	30.08	- 13	67	65	+ 2	W	3	c	2	73	58	-	
Pembroke ...	30.15	65	NW	2	m	30.06	- 17	62	61	- 2	N	2	b	1	67	54	-	
Scilly ...	30.17	67	N	1	b	30.08	- 14	67	65	+ 3	NW	1	b	3	70	60	0.01	
Prawle Point ...	30.15	69	SSW	1	b	30.05	- 19	70	60	+ 3	SW	1	b	1	74	55	-	
Jersey ...	30.11	77	NW	2	b	30.02	- 18	71	64	- 3	N	2	b	2	81	62	-	
Hurst Castle ...	30.14	69	W	2	b	30.03	- 21	66	62	- 3	WSW	1	b	0	76	54	-	
Dungeness ...	30.13	73	E	2	b	30.00	- 22	70	66	0	NNE	1	b	0	77	57	-	
London ...	30.10	82	SSW	3	b	30.00	- 23	72	65	- 1	W	1	b	*	87	58	-	
Oxford ...	30.08	76	S	2	b	30.01	- 21	74	66	+ 4	SW	1	b	*	85	58	-	
Cambridge ...	30.11	81	Z	0	b	29.98	- 24	73	66	+ 2	SW	1	b	*	89	56	-	
Yarmouth ...	30.12	68	SSW	3	b	30.00	- 22	73	64	+ 9	WSW	1	b	1	73	60	-	
Cuxhaven ...	30.19	66	E	1	b	30.08	- 20	69	68	+ 5	SSW	1	m	*	70	57	-	
Berlin ...	30.17	75	Z	0	b	30.14	- 10	70	63	+ 4	SSW	2	b	*	84	61	-	
Wiesbaden ...	*	*	*	*	*	30.10	- 16	71	65	0	E	1	b	*	84	59	-	
Munich ...	30.23	66	NE	3	b	30.17	- 13	69	61	+ 3	E	3	b	*	77	52	-	
FRANCE & NETHERLANDS.																		
The Helder ...	30.13	67	NE	1	b	29.99	-	72	68	-	ESE	1	b	1	72	64	-	
Brussels ...	*	*	*	*	*	29.99	- 25	77	66	+ 8	S	1	b	*	86	63	-	
Cape Gris Nez...	30.11	69	NE	1	b	29.99	- 26	64	61	- 1	NE	1	b	0	73	59	-	
Paris ...	30.10	81	Z	0	b	30.03	- 20	65	61	0	E	1	b	*	87	55	-	
Brest ...	30.12	79	E	4	o	30.08	- 12	60	56	- 3	NW	4	o	3	84	50	-	
Lorient ...	30.09	74	N	4	b	30.01	- 17	68	63	+ 4	NE	1	b	2	88	55	-	
Rochefort ...	30.05	84	N	4	o	30.00	- 16	71	67	0	E/NE	3	c	1	102	64	-	
Belfort ...	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	
Lyons ...	30.05	85	ENE	1	b	30.06	- 12	70	62	0	SE	1	c	*	89	63	-	
Nice ...	30.10	77	Z	0	b	30.11	+ 05	77	65	+ 3	Z	0	b	0	84	66	-	
Perpignan ...	30.05	74	NE	3	o	30.04	- 07	73	69	- 4	NE	4	b	*	87	66	-	
Biarritz ...	29.99	79	E	4	c	29.98	- 08	70	68	- 3	E	4	o	1	84	68	0.04	
PENINSULA.																		
Corunna ...	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	
Lisbon ...	30.04	68	NW	5	b	30.11	+ 07	67	63	- 4	W	4	c	2	82	64	-	



# WEATHER CHARTS

for 8 a.m. on Monday, 4<sup>th</sup> JULY.

1887.

## BAROMETER, WIND & SEA.

(Explanation of Map)

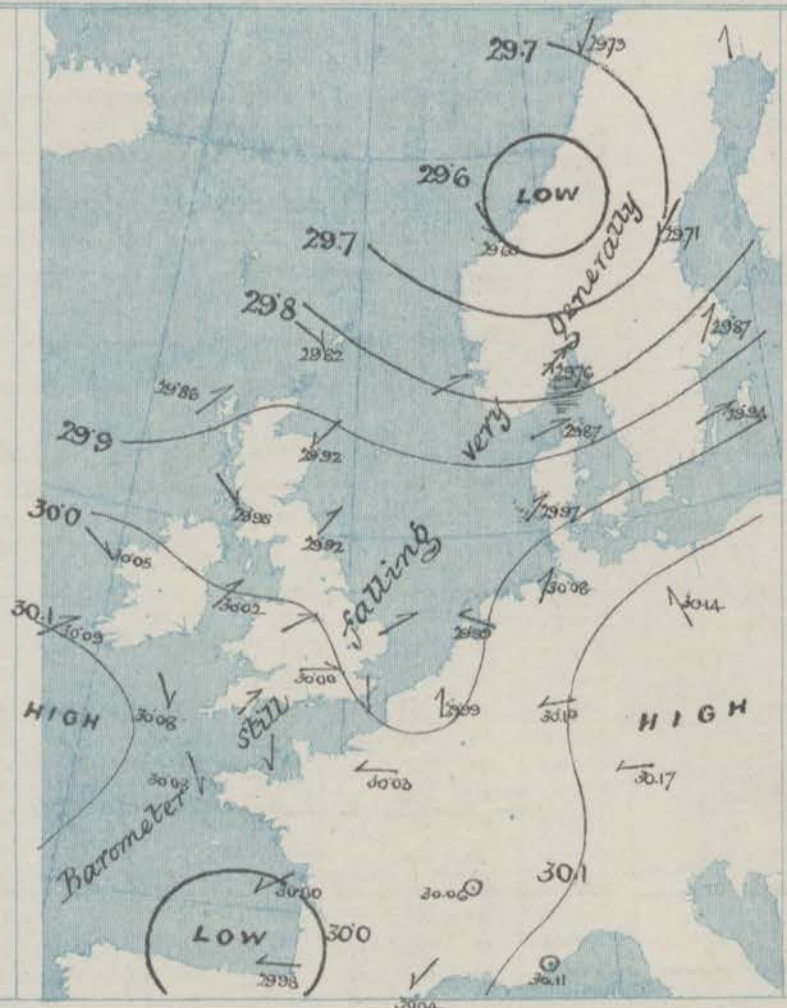
**Barometer** — Isobars are drawn for each tenth of an inch. Changes since previous morning are stated in words.  
**Wind** — Arrows show the prevalent winds. They fly with the wind and their barbs and feathers refer to force, thus —  
 — = forces above 10; — = forces 8 to 10;  
 — = forces 5 to 7; — = 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 10 Years 1871—1880.

STATIONS.	MEAN READINGS.
Sumburgh Head	29.827
Stornoway	29.799
Wick	29.813
Nairn	29.824
Aberdeen	29.829
Leith	29.848
Shields	29.873
York	29.902
Ardrossan	29.864
Donaghadee	29.878
Holyhead	29.914
Liverpool	29.910
Valencia	29.944
Roches Point	29.940
Pembroke	29.942
Scilly	29.986
Hurst Castle	29.961
Dover	29.959
LONDON	29.955
Oxford	29.941
Cambridge	29.937
Yarmouth	29.934



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

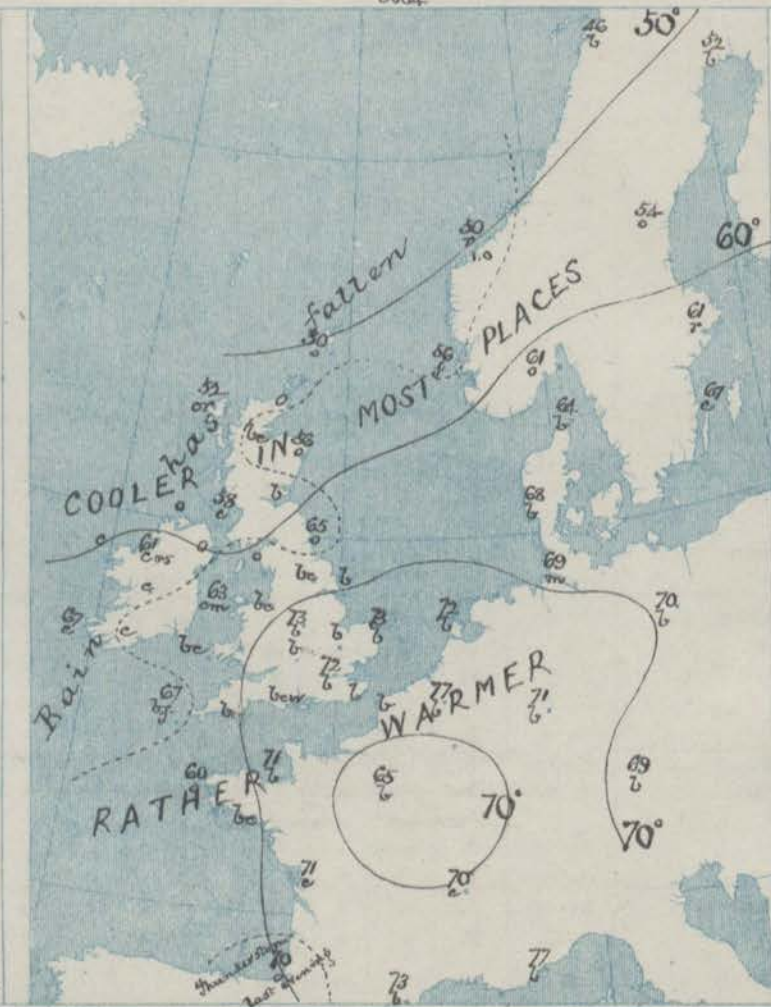
**Temperature** — Isotherms are drawn for each 10° Changes since previous morning are stated in words.  
**Weather** — is shown by Letters of the Beaufort Scale.  
**Rainfall** — A dotted line separates the districts in which rain has fallen from those where there has been none. Falls of 0.5 in. or more, 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. Day.	At 8 a.m. Night.	
Sumburgh Head	57.9	48.5	53.7	52.2	2.00
Stornoway	60.3	49.7	56.4	54.8	3.02
Wick	62.4	49.4	56.2	53.0	2.25
Nairn	65.0	51.6	57.4	53.7	2.57
Aberdeen	64.4	51.7	57.9	54.4	2.74
Leith	68.0	52.0	59.1	55.9	2.84
Shields	64.6	53.6	58.8	55.5	2.63
York	68.1	52.3	59.7	56.5	2.57
Ardrossan	64.0	53.8	57.8	54.8	2.91
Donaghadee	62.9	52.0	57.7	55.9	2.67
Holyhead	64.5	55.0	58.3	56.1	2.32
Liverpool	66.4	54.6	59.8	56.1	2.99
Valencia	64.5	53.9	59.0	56.2	3.01
Roches Point	68.2	53.9	59.1	56.0	3.16
Pembroke	64.0	55.4	58.5	56.2	2.31
Scilly	65.0	56.9	60.3	58.2	2.29
Hurst Castle	67.9	56.4	61.7	59.2	2.15
Dover	67.4	57.5	63.0	59.2	1.82
LONDON	73.3	54.2	62.5	58.6	2.17
Oxford	69.9	53.7	60.4	57.1	2.51
Cambridge	72.6	52.8	61.3	58.0	2.30
Yarmouth	66.7	55.5	61.4	58.4	2.68

Note — The Temperature means are for the 10 years 1871—80, the Rainfall means are mainly those for the 10 years 1868—85.





# GENERAL SITUATION AT 8 A.M.

## PRESSURE

Highest, 30.1 in. off the southwest coast of Ireland & over the southern parts of the Iberian Peninsula, & 30.15 in. & more over Germany.  
Lowest, 29.6 in. over the northwest of Norway, 30.0 in. over the Netherlands and also over the southeast of France.  
Gradients, moderate to slight and favourable for variable winds. Barometer falling generally, but irregularly.

## TEMPERATURE

Highest, 77° at Nice and at Brussels, 74° at Oxford, 73° at Cambridge, Harwich & Loughborough and 72° in London.  
Lowest, 46° at Bodo, 50° at Christiansund & Sumburgh Head, 52° at L'Anse-au-Loup, 56° at Bognor Regis & in the east of Scotland, and 65° at Shields, Sumburgh Head & Paris. It had fallen considerably in the northwest and north, but remained high in the South.  
Maxima over England yesterday 80° to 89°.

## WIND

Slight and variable from between SW and NW over our islands; NE<sup>ly</sup> in west of France; W<sup>ly</sup> over Portugal.  
SW<sup>ly</sup> over the south of Scandinavia; showing a gale in the Christiansund Fjord.

## WEATHER

Bull in the west, northwest, and north, with rain in places.  
Fine in southwest and south and to the eastward of the North Sea. Very fine over Germany.  
Much rain reported in London - appearing & disappearing alternately - motion not discernible at present.  
Rain has fallen in northwest, north and northeast.

## SEA

in smooth generally.

## PROBABLE CHANGES IN SYSTEM NOW PREVALENT

The weather is becoming less and less settled owing to the gradual extension of the cyclonic systems in the north and east; the change will probably reach our southern coasts during the next 24 hours or so.

## FORECASTS

For the 24 hours ending at NOON on 5<sup>th</sup> JULY 1887.

### DISTRICTS.

### FORECASTS.

0	SCOTLAND NORTH	SW <sup>ly</sup> to NW <sup>ly</sup> breezes; changeable, some rain.
1	SCOTLAND EAST	.....D.....D.....D.....
2	ENGLAND N.E.	Same as N <sup>o</sup> 5.
3	ENGLAND EAST	Same as N <sup>o</sup> 5.
4	MIDLAND COUNTIES	Same as N <sup>o</sup> 5.
5	ENGLAND SOUTH	SW <sup>ly</sup> to NW <sup>ly</sup> breezes; weather becoming less settled gradually; fine and warm to somewhat showery.



### DISTRICTS.

### FORECASTS.

6	SCOTLAND WEST	Varying breezes; changeable, showery.
7	ENGLAND N.W.	.....D.....D.....D.....
8	ENGLAND S.W.	Same as N <sup>o</sup> 2 to 5.
9	IRELAND NORTH	SW <sup>ly</sup> to NW <sup>ly</sup> breezes; changeable, rain in places.
10	IRELAND SOUTH	.....D.....D.....D.....

### 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.	Wva.	Sea.		Bar.	Dry.	Wet.	Wind.	Wva.	Sea.
Skudesnaes ...	30.06	56	53	SSE 4	0	3	Holyhead ...	30.08	69	63	SW 2	bm	2
Sumburgh Head							Valencia ...						
Stornoway ...	29.78	64	63	W 5	0	5	Scilly ...						
Aberdeen ...							Dungeness ...	30.12	73	68	E 1	b	0
Shields ...							London ...						
Ardrossan ...							Yarmouth ...						
Malin Head ...							Jersey ...	30.16	80	68	E 1	b	1
Mullaghmore ...							Rochefort ...						
Belmullet ...	30.11	66	64	SW 5	0	"							

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

The report for yesterday morning showed that the band of high-pressure which covered nearly the whole of Western and Central Europe on Saturday was inclined to disperse very slowly. Readings nevertheless varied from between 30.1 ins and 30.5 ins in the zone referred to, to about 29.6 ins over Iceland and to about 29.8 ins near the Hebrides, while to the southward of the high-pressure band they decreased to about 30.0 ins over the north of Spain. Thus, while E. W. breezes still held over France and the Bay of Biscay, a W. (SW to NW) current of wind was becoming established in the north and was inclined to spread southwards along the Scotch and Irish coasts, bringing with it dull and somewhat showery weather to those regions, while over England, France and Germany the weather remained fine and bright. Temperature had begun to increase over the inland parts of Western Europe, and varied from between 75° and 85° over the Mediterranean and Algeria, to somewhat below 50° over Finland and the northern parts of Scandinavia. The highest individual readings reported were 84° at Biskra (Algeria), 81° at Cagliari, Cetta and Cap Bearn, 75° at Biniadi and Livorno, 73° at Rome, Biarritz and in London, and 70° to 72° over many other parts of England, France and Germany. The lowest were 44° at Bodö, 47° at Christiansund, 48° at Haparanda, 51° at Sumburgh Head and 56° at Skudesnaes.

During the day temperature rose to between 85° and 90° over several parts of England and France, while the showery weather in the north extended to the northern counties of England. The barometer fell slightly but generally.

## SUMMARY OF CHANGES IN THE WEATHER OVER THE BRITISH ISLANDS AND THEIR NEIGHBOURHOOD.

FROM THE 26<sup>TH</sup> JUNE TO THE 2<sup>ND</sup> JULY 1887.

During the past week the distribution of pressure over the United Kingdom has been almost continuously anticyclonic; the weather therefore has again been dry generally, but as the position of the anticyclone has altered from time to time, the winds have shifted from quarter to quarter, and temperature has changed considerably. On Sunday (26<sup>th</sup>) the wind was NE. over England; temperature was consequently low and the sky overcast with us, while in Ireland the weather remained bright and warm. On Monday some slight disturbances passed over the United Kingdom and North Sea from the northward, and for a time it seemed likely that showery weather would become general. These, however, soon passed off, and an anticyclonic system was again established, with gradients of a northerly type. Temperature consequently fell and remained rather low, with more or less cloudy weather and light NW. to NE. winds until nearly the close of the week, when, owing to a decided decrease of pressure in the north, the winds became W. and SW. and the thermometer rose to a maximum of 80° to 86° over England.

In Norway and the extreme north of Scotland and Ireland there has been some rain as depressions have advanced over Scandinavia from the westward, but over England and the greater part of Ireland the weather has remained persistently dry. In London the last rainfall of importance occurred on June 4<sup>th</sup>; there were some showers on the 8<sup>th</sup> (bringing only a few hundredths of an inch of rain), but since then there has been no rain at all though the dew has often been heavy.

## 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 5<sup>th</sup> July

1887.

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

Issued by the Meteorological Office, 16, Victoria Street, London, W. 11. 5.011, 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.
				Direc.	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.	Direc.	Force. (0 to 12.)			Max.	Min.	
SCANDINAVIA.	Haparanda ...	29.59	49	W	0	0	29.49	- 17	53	50	+ 1	W	0	0	*	57	39	-
	Hernösand ...	29.58	53	NE	2	r	29.54	- 33	66	59	+ 5	W	2	e	*	68	50	0.71
	Stockholm ...	29.70	71	W	2	0	29.54	- 34	68	62	+ 1	SW	6	e	*	75	55	-
	Wisby ...	29.82	67	SW	6	b	29.60	- 09	49	45	+ 3	NNE	2	e	1	77	57	0.08
	Bodö ...	29.67	44	NNE	4	b	29.64	+ 08	49	45	- 1	WNW	5	r	3	52	48	0.20
	Christiansund ...	29.68	50	WNW	2	0	29.78	- 00	50	46	- 6	NW	6	e	3	?	?	-
	Skudesnaes ...	29.81	52	WNW	2	0	29.61	- 15	59	49	- 2	WNW	2	b	3	61	54	-
	Christiania Fjord (Færd)	29.63	59	SW	8	0	29.64	- 23	58	53	- 6	NW	8	0	1	73	54	0.12
	Skagen (The Scaw)	29.70	56	WNW	1	0	29.75	- 22	51	50	- 17	WNW	4	r	*	72	52	0.04
	Fanø ...	29.78	59	NW	4	0	29.90	+ 08	47	43	- 3	N	2	e	2	53	40	0.01
BRITISH ISLANDS.	Sumburgh Head	29.89	52	NNE	2	0	29.99	+ 13	52	50	0	NE	1	b	1	57	41	0.10
	Wick ...	29.93	53	NW	1	0	29.94	+ 03	49	45	- 4	NW	3	e	0	55	40	0.05
	Nairn ...	29.91	55	W	0	r	29.94	+ 02	53	47	- 3	WNW	1	bc	2	63	47	0.12
	Aberdeen ...	29.91	54	SW	1	og	29.95	+ 03	52	47	- 4	WNW	2	e	1	58	48	0.14
	Leith ...	29.86	60	WSW	1	c	29.91	- 01	54	53	- 11	N	1	of	1	65	50	0.26
	Shields ...	29.89	63	NW	3	e	29.87	- 12	57	53	- 8	WNW	4	b	2	74	54	0.20
	Spurn Head ...	29.90	68	W	2	c	29.91	- 08	58	54	- 11	WNW	2	e	*	73	49	-
	York ...	29.90	68	W	2	c	29.91	- 08	58	54	- 11	WNW	2	e	*	73	49	-
	Loughborough	29.93	70	WNW	3	0	29.95	+ 07	57	53	- 16	W	3	0	*	83	62	0.21
	Ardrossan ...	29.92	60	WNW	3	c	29.96	+ 01	57	53	- 1	WNW	2	bc	1	63	52	-
GERMANY.	Malin Head ...	29.96	56	NW	4	og	30.04	+ 08	58	54	+ 1	WNW	3	of	3	58	52	0.01
	Mullaghmore ...	30.06	59	WNW	5	bc	30.05	+ 03	58	53	- 3	NW	5	0	4	63	54	-
	Belmullet ...	30.04	59	WNW	1	bc	30.10	+ 05	57	52	- 3	NW	2	?	*	61	53	-
	Donaghadee ...	29.99	59	NE	3	c	30.01	+ 03	56	54	0	WNW	3	0	1	61	51	0.01
	Barrow-in-Furness	29.95	62	NW	3	0	29.92	- 06	56	55	- 7	NW	5	0	*	65	54	0.01
	Liverpool (Bidston)	29.96	63	WNW	1	0	29.96	- 04	66	53	- 13	WNW	5	0	4	71	54	0.02
	Holyhead ...	29.98	63	WNW	1	0	30.02	- 00	59	55	- 4	WNW	3	e	2	70	53	-
	Parsonstown ...	30.06	61	NW	1	e	30.09	+ 06	56	53	- 8	W	0	og	*	74	46	-
	Valencia ...	30.08	63	N	4	0	30.14	+ 05	60	56	- 7	NNE	1	0	1	69	51	0.05
	Roche's Point ...	30.03	65	NW	1	c	30.12	+ 04	58	56	- 9	W	1	0	2	71	57	0.04
FRANCE & NETHERLANDS.	Pembroke ...	30.09	60	WNW	3	c	30.07	+ 01	56	54	- 6	NW	2	bc	2	66	53	0.04
	Scilly ...	30.03	65	WNW	4	c	30.09	+ 01	62	57	- 5	NNE	3	bc	4	70	59	0.07
	Prawle Point ...	29.97	75	WNW	3	b	30.02	- 03	61	57	- 9	WNW	3	bc	3	82	66	-
	Jersey ...	29.98	69	WNW	3	b	29.96	- 06	60	57	- 11	N	4	og	3	76	55	-
	Hurst Castle ...	29.92	71	W	4	b	29.96	- 07	61	58	- 5	NNE	3	bc	1	76	65	0.02
	Dungeneas ...	29.88	68	WNW	3	bc	29.89	- 11	59	59	- 11	N	2	r	2	74	58	-
	London ...	29.87	82	NW	1	bc	29.93	- 07	61	56	- 11	NW	2	e	*	88	57	0.05
	Oxford ...	29.90	72	NW	2	e	29.96	- 05	56	50	- 18	NW	3	0	*	84	55	0.13
	Cambridge ...	29.87	80	NW	1	bc	29.92	- 06	60	54	- 13	WNW	2	e	*	87	54	0.02
	Yarmouth ...	29.87	68	W	0	b	29.88	- 12	89	56	- 14	WNW	4	e	2	73	56	0.25
PENINSULA.	Cuxhaven ...	29.71	70	WNW	1	m	?	?	66	64	- 3	NE	2	m	*	77	64	-
	Berlin ...	29.91	78	S	1	b	29.67	- 47	74	67	+ 4	S	1	bc	*	90	66	-
	Wiesbaden ...	*	*	*	*	*	29.81	- 29	71	62	0	SW	3	b	*	88	61	-
	Munich ...	30.02	72	SE	1	b	29.99	- 18	70	62	+ 1	NW	4	0	*	82	61	-
	The Helder ...	29.84	68	NW	2	bc	29.80	- 19	58	56	- 14	WNW	3	r	3	73	57	0.28
	Brussels ...	*	*	*	*	*	29.82	- 17	62	62	- 15	NW	4	0	*	91	63	-
	Cape Gris Nez ...	29.89	71	SW	3	b	29.90	- 09	60	?	- 4	NE	4	0	3	82	59	-
	Paris ...	29.90	83	N	2	b	29.88	- 15	60	60	+ 1	W	1	e	*	93	58	-
	Brest ...	30.09	64	NE	4	m	30.04	- 04	60	56	0	NW	4	f	3	82	50	-
	Lorient ...	30.00	75	WNW	4	b	30.01	- 00	65	63	- 3	WNW	5	bc	2	82	61	-
PENINSULA.	Rockfort ...	29.96	71	NW	4	c	30.00	- 00	65	63	- 6	WNW	4	0	2	91	61	1.10
	Belfort ...	29.97	80	SW	1	bc	29.95	- 11	72	64	- 6	SW	1	0	*	92	62	-
	Lyons ...	29.92	79	SE	4	bc	29.95	- 11	?	62	?	S	?	?	*	88	65	-
	Nice ...	30.04	75	NW	3	e	30.04	- 07	72	63	- 5	N	1	b	1	86	64	-
	Perpignan ...	30.07	75	NNE	3	bc	29.98	- 06	67	64	- 6	NW	3	e	*	86	67	0.08
	Biarritz ...	30.02	68	NW	8	t	30.01	+ 03	64	68	- 1	W	7	0	2	86	61	0.43
	Corunna ...	*	*	*	*	*	30.25	*	66	64	*	NW	3	f	0	70	63	-
	Lisbon ...	30.15	69	SW	5	e	30.19	+ 08	65	61	- 2	WSW	5	b	4	77	64	-

For Explanation of Columns, see p. 4.



# WEATHER CHARTS

for 8 a.m. on Tuesday, 5<sup>th</sup> July 1887.

## 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.

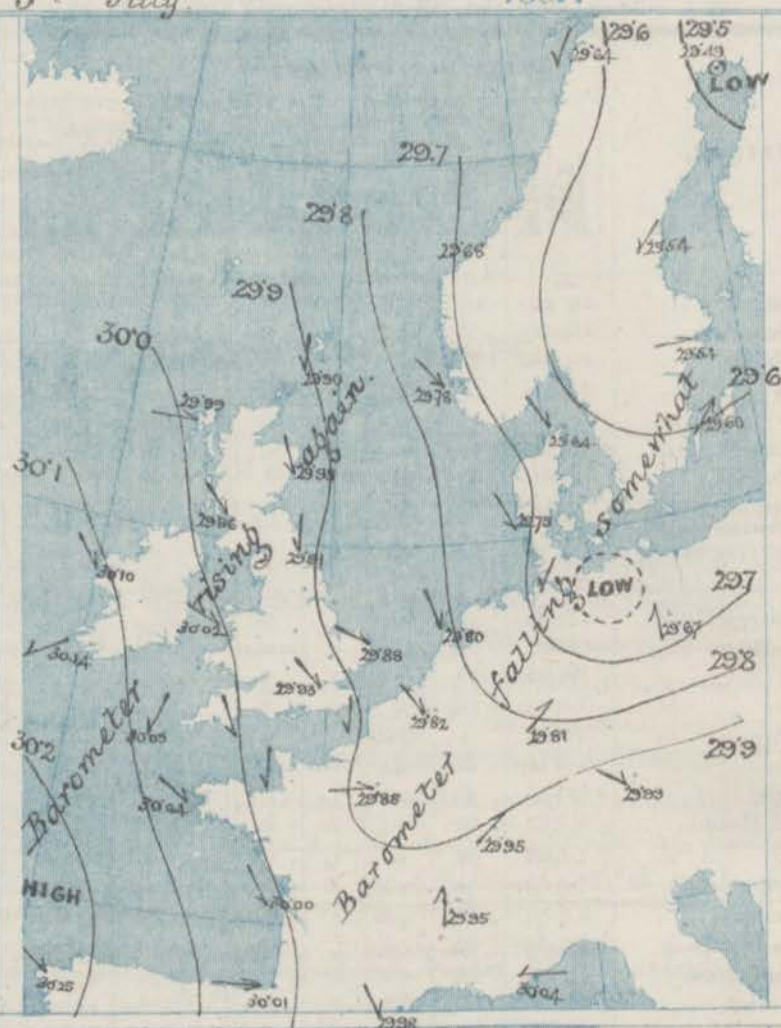
**Sea Disturbance** — where considerable is shown thus

— Rough. — High.

## MEAN HEIGHT of the BAROMETER

at 8 a.m. for the month of July.  
During the 10 Years 1871—1880.

STATIONS.	MEAN READINGS.
Sumburgh Head	29.827
Stornoway	29.799
Wick	29.813
Nairn	29.824
Aberdeen	29.829
Leith	29.848
Shields	29.873
York	29.902
Ardrossan	29.864
Donaghadee	29.878
Holyhead	29.914
Liverpool	29.910
Valencia	29.944
Roche's Point	29.940
Pembroke	29.942
Scilly	29.986
Hurst Castle	29.961
Dover	29.959
LONDON	29.955
Oxford	29.941
Cambridge	29.937
Yarmouth	29.934



## 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.

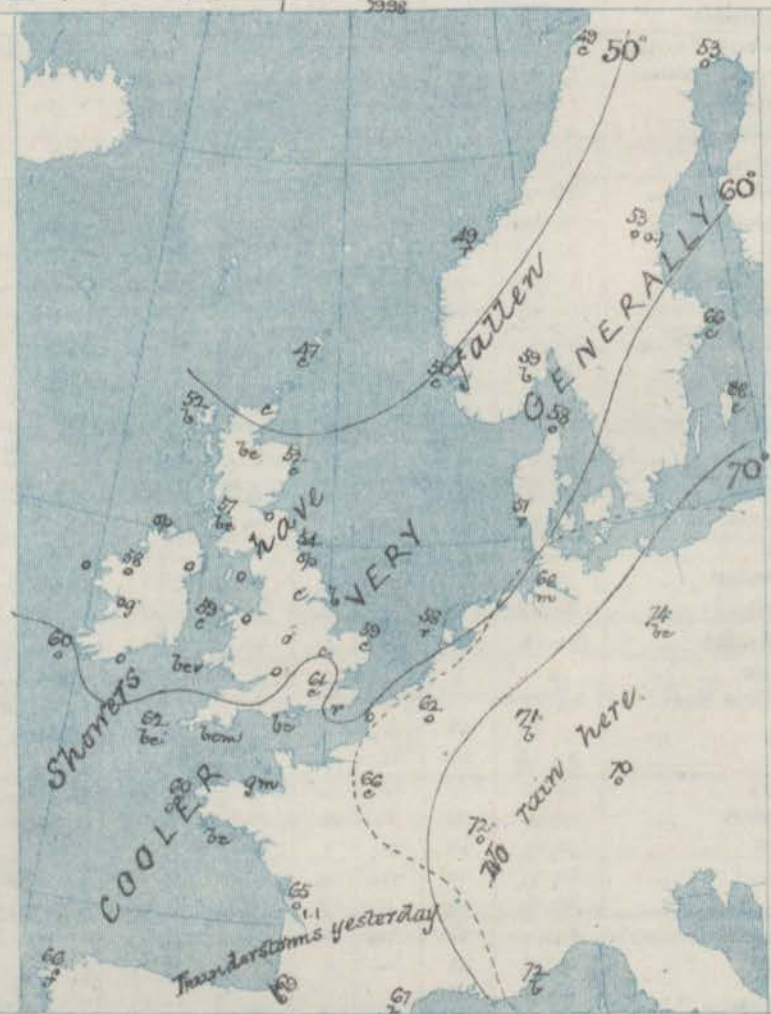
**Rainfall** — A dotted line separates the districts in which rain has fallen from those where there has been none. Falls of 0.5 in. or more, are quoted in figures.

## MEANS OF TEMPERATURE IN SHADE. AND RAINFALL.

for the month of July.

STATIONS	TEMPERATURE				RAINFALL (Inches)
	Daily Max	Daily Min.	At 8 a.m.	At 8 a.m.	
			Dry	Wet	
Sumburgh Head	57.9	48.5	53.7	52.2	2.09
Stornoway	60.8	49.7	56.4	54.8	3.02
Wick	62.4	49.4	56.2	53.9	2.25
Nairn	65.0	51.6	57.4	53.7	2.57
Aberdeen	64.4	51.7	57.9	54.4	2.74
Leith	68.0	52.0	59.1	55.9	2.84
Shields	64.6	53.6	58.8	55.5	2.63
York	68.1	52.3	59.7	56.5	2.57
Ardrossan	64.0	53.8	57.8	54.8	2.91
Donaghadee	62.9	52.0	57.7	55.9	2.07
Holyhead	64.5	55.0	58.3	56.1	2.32
Liverpool	66.4	54.6	59.8	56.1	2.99
Valencia	64.5	58.9	59.0	56.2	3.91
Roche's Point	68.2	53.9	59.1	56.0	3.16
Pembroke	64.0	55.4	58.5	56.2	2.31
Scilly	65.0	56.9	60.3	58.2	2.29
Hurst Castle	67.9	56.4	61.7	59.2	2.15
Dover	67.4	57.5	63.0	59.2	1.82
LONDON	73.3	54.2	62.5	58.6	2.17
Oxford	69.9	58.7	60.4	57.1	2.51
Cambridge	72.5	52.8	61.3	58.0	2.30
Yarmouth	66.7	55.5	61.4	58.4	2.68

Note — The Temperature means are for the 10 years 1871—80, the Rainfall means are mainly those for the 10 years 1868—85.





# GENERAL SITUATION AT 8 A.M.

## PRESSURE

Highest, 30.25 ins at Bremen, 30.19 ins at Lisbon, 30.1 ins and more over the western and south-western parts of Ireland, 30.0 ins and more over the southeast of France.  
Lowest, 29.69 ins at Haparanda, 29.54 ins at Stockholm and about 29.5 ins near Hamburg.  
Tendency, slight and favourable for NW to N winds. Barometer rising in our islands, falling over Germany and the Baltic.

## TEMPERATURE

Highest, 74° at Berlin, 72° at Pisa and Naffort, 71° at Wiesbaden, 70° at Munich and 69° at Biarritz.  
Lowest, 47° at Lumburgh Head, 46° at Vicks and in the north-west of Norway, 50° at Ikudassuaas and 51° at Farsø.  
It has fallen from 5° to 12° over England during the past twenty-four hours.

## WIND

NW to N over the British Isles, the North Sea and Bay of Biscay, and of very little force.  
Over Germany and the Baltic it is SW, and also at Christiansund.

## WEATHER

Somewhat cloudy, with rain at Christiansund and Bungeness, and showers at Malin Head.  
Showers have occurred in many places since yesterday—most in the north and east, but the appearance of the sky is now improving.

## SEA

Smooth or nearly so on all our coasts.

## PROBABLE CHANGES IN SYSTEM NOW PREVALENT

The barometer appears to be now rising over the British Kingdom generally, and the distribution of pressure is becoming more uniform. Some local showers may still occur, but on the whole fair weather and NW breezes seem likely to prevail.

## FORECASTS

For the 24 hours ending at NOON on 6<sup>th</sup> July 1887.

### DISTRICTS.

### FORECASTS.

0	SCOTLAND NORTH	NW <sup>ly</sup> breezes, light or moderate, some local showers, but fair as a whole.
1	SCOTLAND EAST	D <sup>o</sup> D <sup>o</sup>
2	ENGLAND N.E.	D <sup>o</sup> D <sup>o</sup>
3	ENGLAND EAST	D <sup>o</sup> D <sup>o</sup>
4	MIDLAND COUNTIES	D <sup>o</sup> D <sup>o</sup>
5	ENGLAND SOUTH	N <sup>ly</sup> breezes, moderate, fair generally, but slight local showers not improbable.



### DISTRICTS.

### FORECASTS.

6	SCOTLAND WEST	Same as N <sup>o</sup> 0.
7	ENGLAND N.W.	Same as N <sup>o</sup> 0.
8	ENGLAND S.W.	NW <sup>ly</sup> and N <sup>ly</sup> breezes, moderate, fair.
9	IRELAND NORTH	D <sup>o</sup> D <sup>o</sup>
10	IRELAND SOUTH	D <sup>o</sup> D <sup>o</sup>

### 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.	Ther.	Wet.	Wind.	Wes.	Sea.		Bar.	Ther.	Wet.	Wind.	Wes.	Sea.
Skudesnaes ...	29.84	55	52	W 1/2	0	+	Holyhead ...	30.01	63	61	W 1/2	1	mkp
Sumburgh Head ...	29.84	51	48	W 1/2	2	3	Valencia ...	30.07	66	63	N 3	ov	3
Stornoway ...	29.86	56	55	W 1	2	1	Scilly ...	30.08	69	65	W 3	em	3
Aberdeen ...	29.92	56	54	W 1	2	1	Dungeness ...	29.95	72	70	W 3	bc	2
Shields ...	29.90	58	58	N 1	0	1	London ...	29.98	87	67	W 1	bc	1
Ardrossan ...	29.94	62	58	W 1	0	1	Yarmouth ...	29.94	68	63	NE 2	b	1
Malin Head ...	29.95	57	54	W 1/2	0	+	Jersey ...	30.02	72	63	W 1/2	b	2
Mullaghmore ...	30.04	61	56	W 1/2	0	5	Roshefort ...	30.00	88	67	W 3	bc	1
Belmullet ...	30.09	59	53	W 1/2	0	+							

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

Yesterday morning's reports showed that pressure varied from a little above 30.1 in. over Central Europe and also over the southwest of Spain to rather below 29.9 in. over the northern part of Scandinavia and Finland.

The gradients were consequently slight, but variable, and there were several local (thunderstorm) depressions about, which produced an unsettled condition of weather in many parts of Northwestern Europe. The winds were very variable, but chiefly W<sup>ly</sup> and S<sup>ly</sup> in the north, and were of little strength. Temperature was high over England, France and Germany, but not over Northern Europe. The highest individual values were 84° at Biarra and Barcelona, 82° at Oran and Cagliari, 79° at Bilbao, 77° at Brindisi, Tice, Belfort, Utrecht and Brussels, 75° at Palermo and Lismore, 74° at Oxford, 73° at Perpignan and Loughborough and 72° in London; the lowest 46° at Bodø, 50° at Sumburgh Head, 52° at Haparanda and Stornoway and 65° on the northeast coast of England and also at Paris.

During the day showers fell over most of the northern counties of England, as well as in Scotland, and later on a slight shower occurred even in London, but the local disturbances began to disappear, and conditions became favourable for finer weather.

### 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; a. 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 6<sup>th</sup> July

1887.

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

Issued by the Meteorological Office, 16, Victoria Street, London, W. 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.	Inch.	BAROMETER.		SHADE TEMP.			WIND.		Weather.	Sea (0 to 9.)	SHADE TEMP.		Amount of Rainfall.	
			Dir.	Force (0 to 12.)			Reading at 8 A.M. and Sea Level.	Difference from 8 A.M. yesterday.	Dry.	Wet.	Difference from 8 A.M. yesterday.	Dir.	Force (0 to 12.)			Max.	Min.		
SCANDINAVIA.																			
Haparanda ..	29.54	51	Z	0	h	29.61	+ .12	52	48	- 1	N	4	0	*	63	46	—		
Hernösand ...	29.56	52	SSW	2	h	29.48	- .06	54	49	+ 1	NE	4	0	*	61	48	—		
Stockholm ...	29.52	52	NE	2	n	29.30	- .24	49	48	- 17	NW	4	n	*	72	50	0.95		
Wisby ...	29.42	56	NNE	4	0	29.35	- .25	52	53	- 14	NNW	4	c	*	70	55	0.59		
Bodö ...	29.70	46	N	4	h	29.74	+ .10	46	44	- 2	NNE	2	be	1	41	41	—		
Christiansund...	29.73	48	NNE	4	0	29.78	+ .10	46	43	- 3	NNE	3	c	2	52	41	0.08		
Skudesnaes ...	29.70	40	NW	6	n	29.71	- .07	51	47	+ 1	NNW	8	c	4	54	48	—		
Christiania Fjord (Fjorder)	29.46	63	WSW	2	h	29.51	- .10	50	45	- 9	N	8	n	2	63	48	0.24		
Skagen (The Scaw)	29.44	57	NW	3	h	29.44	- .20	51	50	- 8	NNE	3	0	3	64	48	0.12		
Fanö ...	29.71	51	NW	4	c	29.66	- .09	50	47	- 1	NW	6	cp	*	59	48	0.08		
Sumburgh Head	29.92	46	N	3	ch	29.98	+ .08	47	42	0	N	2	c	3	51	40	0.04		
Stornoway ...	29.99	50	NE	1	0	30.05	+ .06	52	49	0	Z	0	0	0	53	39	—		
Wick ...	30.01	52	N	4	be	30.05	+ .11	49	46	0	NW	3	c	1	54	39	0.05		
Nairn ...	30.03	51	NNE	2	0	30.08	+ .14	51	47	- 2	V	1	be	1	58	40	0.01		
Aberdeen...	30.00	48	NNW	3	n	30.07	+ .12	51	45	- 1	NW	2	c	1	56	39	0.02		
Leith ...	30.00	56	NE	1	h	30.08	+ .12	54	49	+ 3	Z	0	c	*	59	41	0.17		
Shields ...	30.00	53	NNE	1	be	30.11	+ .20	53	48	- 1	NW	1	h	2	56	42	0.04		
Spurn Head ...	29.97	55	NNE	4	3	30.11	+ .24	54	50	- 3	N	4	h	3	66	40	0.01		
York ...	29.98	54	NNE	2	n	30.13	+ .22	52	47	- 6	NW	1	h	*	67	40	0.08		
Loughborough	29.97	62	WNW	3	c	30.15	+ .20	58	53	+ 1	ESE	1	h	*	68	42	—		
ARDROSSAN.																			
Ardrossan ...	30.00	60	WNW	3	h	30.09	+ .13	54	52	- 3	S	1	be	0	64	48	—		
Malin Head ...	30.05	57	NNW	3	0	30.04	.00	53	51	- 5	S	3	0	2	59	47	—		
Mullaghmore	30.08	60	NW	5	ch	30.07	+ .02	55	54	- 3	SSW	1	ch	2	64	53	0.05		
Belmullet ...	30.12	58	NW	3	0	30.03	- .07	60	60	+ 3	SW	2	0	*	61	57	0.09		
Donaghadee	30.05	59	NNE	4	h	30.12	+ .11	55	52	- 1	NE	3	c	1	61	49	—		
BRITISH ISLANDS.																			
Barrow-in-Furness	29.97	61	WNW	5	h	30.10	+ .18	52	49	- 4	NE	3	be	*	62	48	—		
Liverpool (Bidston)	30.00	61	W	5	h	30.11	+ .15	60	53	- 6	WSW	2	h	3	62	49	—		
Holyhead ...	30.04	59	WSW	3	h	30.12	+ .10	58	54	- 1	Z	0	c	0	65	52	—		
Parsonstown ...	30.08	66	NW	1	be	30.08	- .01	58	56	+ 2	SSW	1	ag	*	68	52	—		
Valencia ...	30.13	65	NW	2	be	30.11	- .03	65	63	+ 5	SW	1	0	1	67	56	0.01		
Roche's Point...	30.11	64	SW	1	c	30.11	- .01	63	60	+ 5	ESE	1	c	2	67	58	—		
Pembroke ...	30.08	61	WNW	2	h	30.13	+ .06	58	57	+ 2	SE	1	be	1	61	55	—		
Scilly ...	30.12	64	W	1	c	30.15	+ .06	68	64	+ 6	SW	1	h	4	68	58	—		
Prawle Point ...	30.07	65	NNW	5	h	30.17	+ .15	63	59	+ 2	W	2	be	2	75	51	—		
Jersey ...	30.05	64	WNW	3	h	30.15	+ .19	67	57	+ 7	NE	3	be	3	67	55	—		
HURST CASTLE.																			
Hurst Castle ...	29.99	67	N	3	h	30.15	+ .19	63	61	+ 2	ENE	1	h	0	72	48	—		
Dungeness ...	29.91	68	NNW	3	1	30.11	+ .22	57	54	- 2	N	2	be	1	67	47	—		
London ...	29.94	67	NW	2	h	30.15	+ .22	59	54	- 2	E	1	be	*	69	53	—		
Oxford ...	30.00	61	NW	2	h	30.16	+ .20	53	51	- 3	Z	0	be	*	67	49	—		
Cambridge ...	29.96	59	N	1	be	30.15	+ .23	58	52	- 2	N	1	be	*	69	44	—		
Yarmouth ...	29.92	60	N	4	h	30.11	+ .23	56	50	- 3	NW	4	be	4	64	46	0.02		
Cuxhaven ...	29.73	54	NNW	5	n	29.73	- .10	56	53	- 10	NW	6	be	*	74	54	0.44		
Berlin ...	29.67	63	WNW	3	0	29.80	+ .13	54	49	- 20	WNW	4	0	*	80	50	0.04		
Wiesbaden ...	*	*	*	*	*	30.01	+ .20	59	53	- 12	NW	3	0	*	82	54	0.71		
Munich ...	29.84	68	WNW	3	c	30.00	+ .01	55	49	- 15	WNW	4	0	*	80	50	0.67		
FRANCE & NETHERLANDS.																			
The Helder ...	29.88	57	NNW	3	0	30.01	+ .21	54	48	- 4	NW	5	be	3	61	54	—		
Brussels ...	*	*	*	*	*	30.09	+ .27	57	51	- 5	WNW	4	be	*	67	50	—		
Cape Gris Nez...	29.92	64	NNW	3	h	30.12	+ .22	58	53	- 2	NW	5	h	2	68	54	—		
Paris ...	29.95	64	NNW	3	c	30.11	+ .23	56	53	- 10	NNE	1	be	*	80	49	—		
Brest ...	30.15	63	NNW	3	be	30.18	+ .14	61	58	+ 1	S	1	be	0	82	50	—		
Lorient ...	30.07	68	NNE	7	h	30.20	+ .19	60	55	- 5	NNW	3	be	2	75	57	—		
Rochefort ...	30.03	66	NW	7	c	30.19	+ .19	59	56	- 6	N	5	c	2	70	54	—		
Belfort ...	29.85	76	SW	4	0	30.04	+ .09	59	56	- 13	NE	1	0	*	83	57	0.28		
Lyons ...	29.93	66	NNW	3	n	30.01	+ .06	60	59	?	N	3	n	*	87	67	0.16		
Nice ...	29.90	73	SW	1	h	29.81	- .23	71	66	- 1	Z	0	h	1	82	68	—		
PERIGNAN.																			
Perpignan ...	29.92	69	SW	2	0	30.00	+ .02	69	60	+ 2	NW	4	0	*	78	66	—		
Biarritz ...	30.10	67	NW	7	n	30.16	+ .15	67	60	- 2	NNE	5	h	2	70	64	0.12		
PENIN. SULA.																			
Corunna ...	*	*	*	*	*	30.09	- .11	67	62	+ 2	NNW	7	h	3	75	64	—		
Lisbon ...	30.10	67	NNW	8	h	30.09	- .11	67	62	+ 2	NNW	7	h	3	75	64	—		

For Explanation of Columns, see p. 4.



# WEATHER CHARTS

for 8 a.m. on

WEDNESDAY 6<sup>TH</sup> JULY

1887.

## BAROMETER, WIND & SEA.

(Explanation of Map)

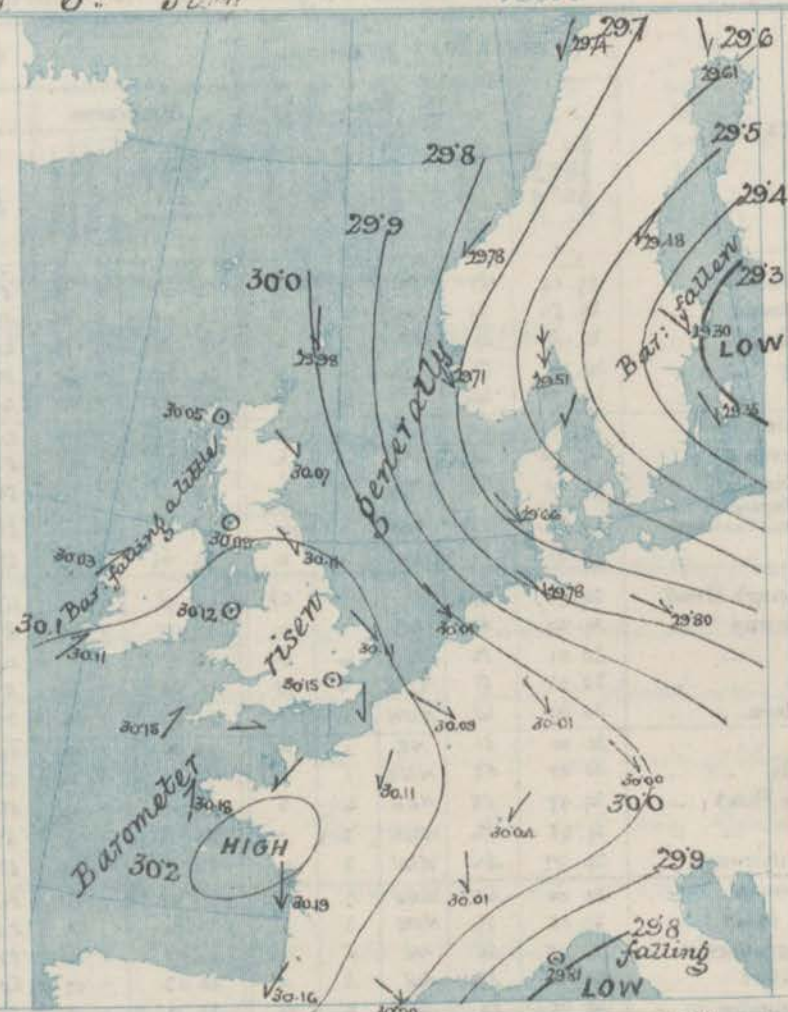
**Barometer**—Isobars are drawn for each tenth of an inch. Changes since previous morning are stated in words.  
**Wind**—Arrows show the prevalent winds. They fly with the wind and their barbs and feathers refer to force, thus—  
 — force above 10, — force 8 to 10,  
 — force 5 to 7, — force 1 to 4,  
 ☉—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 10 Years 1871—1880.

STATIONS.	MEAN READINGS.
	ins.
Sumburgh Head.	29.827
Stornoway	29.799
Wick	29.813
Nairn	29.824
Aberdeen	29.829
Leith	29.848
Shields	29.873
York	29.902
Ardrossan	29.864
Donaghadee	29.878
Holyhead	29.914
Liverpool	29.910
Valencia	29.944
Roche's Point	29.940
Pembroke	29.942
Scilly	29.986
Hurst Castle	29.961
Dover	29.959
LONDON	29.955
Oxford	29.941
Cambridge	29.937
Yarmouth	29.934



## 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.	At 4 p.m.	
Sumburgh Head	57.9	48.5	53.7	52.2	2.09
Stornoway	60.3	49.7	56.4	54.3	3.02
Wick	62.4	49.4	56.2	53.9	2.25
Nairn	65.0	51.6	57.4	53.7	2.57
Aberdeen	64.4	51.7	57.9	54.4	2.74
Leith	68.0	52.0	59.1	55.9	2.84
Shields	64.6	53.6	58.8	55.5	2.63
York	68.1	52.3	59.7	56.5	2.57
Ardrossan	64.0	53.8	57.8	54.8	2.91
Donaghadee	62.9	52.0	57.7	55.9	2.67
Holyhead	64.5	55.0	58.3	56.1	2.32
Liverpool	66.4	54.6	59.8	56.1	2.99
Valencia	64.5	53.9	59.0	56.2	3.91
Roche's Point	68.2	53.9	59.1	56.0	3.16
Pembroke	64.0	55.4	58.5	56.2	2.31
Scilly	65.0	56.9	60.8	58.2	2.29
Hurst Castle	67.9	56.4	61.7	59.2	2.15
Dover	67.4	57.5	63.0	59.2	1.82
LONDON	73.3	54.2	62.5	58.6	2.17
Oxford	69.9	53.7	60.4	57.1	2.51
Cambridge	72.5	52.8	61.3	58.0	2.30
Yarmouth	66.7	55.5	61.4	58.4	2.68

NOTE—The Temperature means are for the 10 years 1871—80, the Rainfall means are mainly those for the 10 years 1866—85.





# GENERAL SITUATION AT 8 A.M.

## PRESSURE

Highest, 30.2 ins. at Lorient, 30.1 ins. and more over England, the south of Ireland & the northwest of France.  
Lowest, 29.3 ins. over the southern part of the Baltic, - 30.0 ins. off the west of Ireland.  
Gradients moderate over the North Sea & Baltic, slight elsewhere. Barometer rising in France & Great Britain, falling Ireland.

## TEMPERATURE

Highest, 71° at Nice, 69° at Perpignan, 68° at Scilly, 67° at Lisbon and Biarritz and 65° at Valencia.  
Lowest, 46° at Bodø & Christiansund, 47° at Lumburgh H., 49° at Wick & Stockholm, 51° at Aberdeen, 52° at Spurn H. & 56° at Paris.  
It has fallen rapidly over Germany and the Baltic, and slightly over Great Britain; risen in the S. of Ireland.

## WIND

Strong NW<sup>ly</sup> on the eastern shores of the North Sea - moderate NW<sup>ly</sup> over the Baltic and Germany.  
Calm over England. S<sup>ly</sup>, very light, in Ireland.  
Moderate N<sup>ly</sup> and NE<sup>ly</sup> over the Bay of Biscay.

## WEATHER

Rainy over the Baltic and Denmark - Fine over Great Britain, France and Spain.  
Cloudy or overcast at the Irish stations, with rain at Mullaghmore.  
The rainfall in the north and northeast yesterday was slight.

## SEA

Moderate at Scilly, smooth or nearly so elsewhere.

## PROBABLE CHANGES IN SYSTEM NOW PREVALENT

- (1) The rise of the barometer now in progress over England will probably spread over the North Sea and fine weather be felt during the next 24 hours at all the English stations, with increasing temperature.
- (2) The fall of the barometer in the northwest will probably spread eastwards & southwards, and SW<sup>ly</sup> breezes and showers set in at the western and northwestern stations generally.

## FORECASTS

for the 24 hours ending at NOON on 1<sup>st</sup> July 1887.

### DISTRICTS.

### FORECASTS.

0	SCOTLAND NORTH	Calm and fine; then S <sup>ly</sup> winds & less settled.
1	SCOTLAND EAST	SW <sup>ly</sup> winds; fine, warm.
2	ENGLAND N.E.	-----D'-----D'-----D'-----
3	ENGLAND EAST	Same as N° 5.
4	MIDLAND COUNTIES	Same as N° 5.
5	ENGLAND SOUTH	Variable winds, cool and hazy; then SW <sup>ly</sup> breezes, light; cloudy, showery.

### DISTRICTS.

### FORECASTS.

6	SCOTLAND WEST	S <sup>ly</sup> breezes, light; cloudy, showery.
7	ENGLAND N.W.	-----D'-----D'-----D'-----
8	ENGLAND S.W.	Same as N° 5.
9	IRELAND NORTH	S <sup>ly</sup> breezes, cloudy, some rain.
10	IRELAND SOUTH	-----D'-----D'-----D'-----

### 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.
Skudesnaes ...	29.77	53	46	NW 6	c	4	Holyhead ...	30.04	64	57	WNW 3	b	2
Sumburgh Head ...	29.91	50	44	N 3	c	3	Valencia ...	30.13	64	60	N 1	cl	0
Stornoway ...	29.96	53	50	NE 1	0	1	Scilly ...	30.12	65	58	NNW 3	c	4
Aberdeen ...	29.95	56	51	NNW 3	0	1	Dungeness ...	29.91	67	59	N 2	c	1
Shields ...	29.95	56	52	N 2	c	2	London ...	29.94	66	56	NW 8	br	*
Ardrossan ...	29.97	64	58	WNW 4	b	3	Yarmouth ...	29.88	63	58	NW 3	br	2
Malin Head ...	30.03	58	53	N 3	0	3	Jersey ...	30.04	66	56	NW 3	b	3
Mullaghmore ...	30.07	62	56	WNW 5	cl	4	Rocheport ...	30.04	67	65	NW 7	c	2
Belmullet ...	30.11	60	53	NW 1	c	*							

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

Yesterday morning's reports showed that pressure varied from a little above 30.1 in. over the Southwest of Ireland, the Southwestern parts of the Spanish Peninsula, and from a little above 30.0 in. over the Southern parts of France, Switzerland, the Balkan Peninsula and Southern Russia to about 29.5 in. in a depression which lay over Finland, and about 29.6 in. or 29.7 in. in a large 'hollow' over the Baltic and North Germany.

The wind was consequently NW<sup>ly</sup> over the North Sea, the British Islands and France, with cool weather and some showers, while over the Baltic it was SE<sup>ly</sup>, with warmer weather. Thunderstorms had been very prevalent over Algeria, France and some parts of Germany, but there were none reported in the British Islands. Temperature had fallen greatly over Northwestern Europe and ranged from about 86° over Algeria and upwards of 70° in the south of France and over Northern Germany to less than 50° in the Shetlands and west of Norway. The highest individual readings were 86° at Bistrea and Algiers, 78° at Livorno, 77° at Hermannstadt, Trieste & Cagliari, 76° at Brindisi and Constantinople, 75° at Barcelona, Rome and Odessa, 74° at Naples and Berlin, and 72° at Belfort & Nice. The lowest were 47° at Sumburgh Head, 49° at Wick, Christiansund, Bodö, Uleaborg and Archangel, 51° at Laro and Leith, 60° at Valencia, Brest and Jersey.

Later in the day the depressions in the north and east passed eastwards and the barometer rose over Western Europe, with colder and drier weather.

### 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 7<sup>th</sup> July

1887.

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

Issued by the Meteorological Office, 10, Victoria Street, London, W. 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.	Barometrical 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 2.)	SHADE TEMP.		Amount of Rainfall.		
			Dirac.	Force. (0 to 12.)				Dry.	Wet.		Dirac.	Force. (0 to 12.)			Max.	Min.			
SCANDINAVIA.																			
Haparanda ...	29.86	44	NE	8	h	29.14	-.67	51	50	-.1	N	6	0	*	57	37	1.70		
Hernösand ...	29.32	50	NE	8	o	29.42	-.06	48	43	-6	NW	8	0	*	55	48	0.04		
Stockholm ...	29.49	49	NW	2	o	29.61	+.31	51	46	+2	WNW	4	h	*	54	43	0.81		
Wisby ...	29.54	49	WSW	4	o	29.63	+.28	54	51	0	NW	6	h	*	57	48	0.08		
Bodö ...	29.66	47	NNE	5	bc	29.62	-.12	46	44	0	NNE	5	0	3	48	45	—		
Christiansund...	29.80	48	NNW	3	c	29.85	+.07	47	46	+1	WNW	5	c	3	50	46	0.12		
Skudesnaes ...	29.86	48	NW	6	c	29.95	+.24	50	46	-1	WNW	6	0	4	52	48	0.12		
Christiania Fjord (Værd)	29.58	62	WNW	1	c	29.77	+.26	54	46	+4	NNE	2	h	2	63	52	—		
Skagen (The Scaw)	29.64	55	NW	3	bc	29.77	+.33	50	48	-1	E	2	0	1	63	50	0.32		
Fanö ...	29.93	51	NW	6	c	29.97	+.31	56	50	+6	NW	6	c	*	57	48	0.04		
BRITISH ISLANDS.																			
Sumburgh Head	29.98	47	NNW	2	bc	30.00	+.02	50	44	+3	2	0	c	0	51	39	—		
Stornoway ...	30.01	52	E	2	o	29.81	-.24	52	51	0	SE	2	0	2	56	47	0.39		
Wick ...	30.03	52	NW	1	h	29.97	-.08	51	49	+2	S	3	0	1	57	38	—		
Nairn ...	30.02	52	E	2	c	29.96	-.12	51	50	0	2	0	h	1	64	46	0.09		
Aberdeen ...	30.04	56	SSE	2	c	30.00	-.07	53	51	+2	SE	2	d	2	60	50	0.01		
Leith ...	30.01	54	W	1	c	30.00	-.08	55	54	+1	E	1	or	*	63	52	0.04		
Shields ...	30.05	54	SE	3	o	30.03	-.08	53	53	0	S	1	d	4	56	51	0.03		
Spurn Head ...	30.08	56	ESE	4	bc	30.06	-.05	61	59	+7	WNW	1	am	3	62	53	—		
York ...	30.07	61	S	1	h	30.05	-.08	63	61	+11	W	1	c	*	66	50	0.02		
Loughborough	30.10	64	W	2	o	30.10	-.05	67	63	+4	WNW	2	h	*	68	58	0.02		
ARDROSSAN.																			
Ardrossan ...	30.03	56	SSW	1	nm	29.98	-.11	58	58	+4	SSW	3	open	2	62	53	0.08		
Malin Head ...	29.96	60	SW	1	o	29.92	-.12	64	62	+11	SW	3	am	2	64	53	0.02		
Mullaghmore ...	30.00	62	WSW	4	o	29.97	-.10	67	63	+12	S	4	c	3	67	54	0.18		
Belmullet ...	30.01	65	WSW	2	c	29.94	-.09	65	63	+5	SW	4	o	*	66	60	0.03		
Donaghadee ...	30.03	57	WSW	3	o	30.02	-.10	65	62	+10	WSW	5	c	3	65	52	0.01		
BARROW-IN-FURNESS.																			
Barrow-in-Furness	30.09	56	S	3	o	30.05	-.05	59	59	+7	E	2	o	*	63	52	0.04		
Liverpool (Bidston)	30.09	57	WNW	1	o	30.07	-.04	66	61	+6	W	3	c	3	67	56	0.02		
Holyhead ...	30.06	59	S	3	o	30.08	-.04	61	59	+3	SSW	2	bc	2	63	55	0.28		
Parsonstown ...	30.04	70	W	1	c	30.03	-.05	68	64	+10	S	1	c	*	71	56	—		
Valencia ...	30.08	68	SW	3	bc	30.01	-.10	65	61	0	S	5	o	5	71	63	—		
GERMANY.																			
Roche's Point...	30.08	68	SW	4	bc	30.05	-.06	65	62	+2	SW	3	c	3	70	61	—		
Pembroke ...	30.11	61	SW	3	bc	30.12	-.01	62	62	+4	SW	2	f	1	66	58	—		
Scilly ...	30.15	67	SW	2	c	30.14	-.01	66	62	-2	S	2	o	4	72	58	—		
Prawle Point ...	30.19	60	WSW	4	c	30.19	+.02	60	59	-3	WSW	2	om	2	65	56	—		
Jersey ...	30.12	66	WNW	2	bc	30.20	+.05	65	57	-2	SSW	1	bc	1	69	58	—		
NETHERLANDS.																			
Hurst Castle ...	30.17	62	WSW	3	bc	30.19	+.04	61	59	-2	SW	3	c	1	67	58	—		
Dungeness ...	30.16	60	SW	3	bc	30.14	+.03	62	60	+5	WSW	4	bc	3	64	56	—		
London ...	30.13	67	SW	3	c	30.15	.00	67	60	+8	WSW	2	bc	*	72	58	—		
Oxford ...	30.12	64	SW	2	o	30.13	-.03	68	64	+15	WSW	2	h	*	70	52	—		
Cambridge ...	30.11	67	SW	1	o	30.11	-.04	70	64	+12	SW	2	h	*	72	56	—		
FRANCE.																			
Yarmouth ...	30.14	58	SSE	4	h	30.07	-.04	65	62	+9	WNW	4	c	3	65	54	0.06		
Cuxhaven ...	29.97	53	NW	6	o	29.99	+.21	58	55	+3	WNW	4	o	*	58	53	—		
Berlin ...	29.97	58	WNW	6	h	30.12	+.32	55	48	+1	WNW	4	c	*	64	46	—		
Wiesbaden ...	*	*	*	*	*	30.26	+.25	57	51	-2	N	4	o	*	68	43	—		
Munich ...	30.16	55	NW	1	c	30.28	+.28	56	49	+1	NW	1	h	*	63	48	—		
NETHERLANDS.																			
The Helder ...	30.13	55	NW	1	h	30.06	+.05	58	56	+4	WSW	3	o	3	58	54	0.04		
Brussels ...	*	*	*	*	*	30.18	+.09	57	53	0	SW	4	o	*	66	52	—		
Cape Gris Nez...	30.17	61	?WSW	4	h	30.15	+.03	58	56	0	W	5	c	3	66	52	—		
Paris ...	30.17	68	N	3	h	30.26	+.15	58	50	+2	NW	1	h	*	74	45	—		
Brest ...	30.23	51	NW	1	h	30.20	+.02	64	57	+3	E	4	h	2	82	50	—		
FRANCE & NETHERLANDS.																			
Lorient ...	30.21	66	W	4	h	30.21	+.01	61	57	+1	ESE	3	h	2	72	57	—		
Rockfort ...	30.20	66	NW	7	h	30.24	+.05	62	58	+3	ESE	4	h	2	72	58	—		
Belfort ...	30.08	68	NE	1	c	30.22	+.18	63	53	+4	NE	3	h	*	75	43	—		
Lyons ...	30.05	70	NNE	4	h	30.20	+.19	58	50	-2	N	4	h	*	73	53	—		
Nice ...	29.78	74	WSW	1	h	29.96	+.15	70	66	-1	W	1	h	3	81	63	—		
NETHERLANDS.																			
Perpignan ...	30.04	75	NW	5	h	30.10	+.10	71	60	+2	NW	4	h	*	81	63	—		
Biarritz ...	30.21	67	N	5	bc	30.17	+.01	64	59	-3	E	3	h	1	70	57	—		
PENINSULA.																			
Corunna ...	*	*	*	*	*	29.99	-.09	70	51	+3	NW	1	h	2	82	64	?		
Lisbon ...	30.01	71	NNW	7	h	29.99	-.09	70	51	+3	NW	1	h	2	82	64	?		

For Explanation of Columns, see p. 4.



# WEATHER CHARTS

for 8 a.m. on

Thursday, 7<sup>th</sup> July.

1887.

## 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.

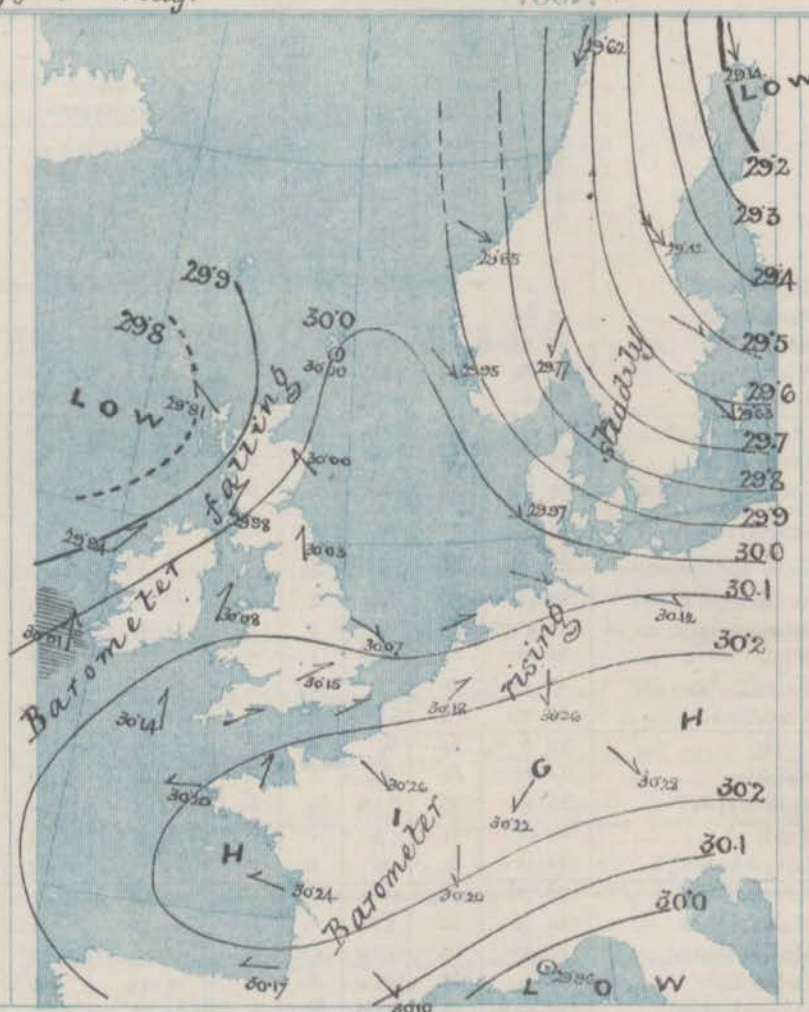
**Sea Disturbance** — where considerable is shown thus

■ = Rough. ■ = High.

## MEAN HEIGHT of the BAROMETER

at 8 a.m. for the month of July.  
 During the 10 Years 1871—1880.

STATIONS.	MEAN READINGS.
Sumburgh Head	29.827
Stornoway	29.799
Wick	29.813
Nairn	29.824
Aberdeen	29.829
Leith	29.848
Shields	29.873
York	29.902
Ardrossan	29.864
Donaghadee	29.878
Holyhead	29.914
Liverpool	29.910
Valencia	29.944
Roche's Point	29.940
Pembroke	29.942
Scilly	29.986
Hurst Castle	29.961
Dover	29.959
LONDON	29.955
Oxford	29.941
Cambridge	29.937
Yarmouth	29.984



## 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	67.9	48.5	53.7	52.2	2.09
Stornoway	60.3	40.7	50.4	54.3	3.02
Wick	62.4	49.4	50.2	53.9	2.25
Nairn	65.0	51.8	57.4	53.7	2.57
Aberdeen	64.4	51.7	57.9	54.4	2.74
Leith	68.0	52.0	59.1	55.9	2.84
Shields	64.6	53.6	58.8	55.5	2.63
York	68.1	52.3	59.7	56.5	2.57
Ardrossan	64.0	53.8	57.8	54.8	2.91
Donaghadee	62.9	52.0	57.7	55.9	2.67
Holyhead	64.5	55.0	58.3	56.1	2.32
Liverpool	66.4	54.6	59.8	56.1	2.99
Valencia	64.5	53.0	59.0	56.2	3.91
Roche's Point	68.2	53.9	60.1	56.0	3.16
Pembroke	64.0	55.4	58.5	56.2	2.31
Scilly	65.0	56.9	60.3	58.2	2.29
Hurst Castle	67.9	56.4	61.7	59.2	2.15
Dover	67.4	57.5	63.0	59.2	1.82
LONDON	73.3	54.2	62.5	58.6	2.17
Oxford	69.9	53.7	60.4	57.1	2.51
Cambridge	72.5	52.8	61.3	58.0	2.30
Yarmouth	66.7	55.5	61.4	58.4	2.68

NOTE — The Temperature means are for the 10 years 1871—80, the Rainfall means are mainly those for the 20 years 1866—85.





# GENERAL SITUATION AT 8 A.M.

PRESSURE	Highest, 30.2 in. and more over France, Central Germany and the Channel Islands. Lowest, 29.8 in. in the Hebrides - 29.1 in. over Lapland - 29.9 at Lisbon and over the Gulf of Genoa. Gradients rather steep over Sweden, moderate over our NW districts, slight elsewhere. Barometer rising Scandinavia, falling on islands, most in northwest and west.
TEMPERATURE	Highest, 70° at Lisbon, 68° at Parsonstown and Oxford, 67° at Soughborough & in London, 65° in the W. of Ireland. Lowest, 45° at Bodo, 47° at Christiana, 48° at Hernösand, 50° at Fimbargh Head and Skudesnaes. It has risen decidedly in most places since yesterday.
WIND	W <sup>ly</sup> strong to a gale Scandinavia and Denmark. SW <sup>ly</sup> light England, S <sup>ly</sup> and SE <sup>ly</sup> freshening Ireland. W <sup>ly</sup> over Central France E <sup>ly</sup> moderate over Bay of Biscay.
WEATHER	Fine over Germany, France and southeast of England - dull in Ireland - Rainy in Scotland. The appearance of the sky in London is unsettled and shower-like.
SEA	Rather rough in the far west; slight or smooth on our other coasts.



## PROBABLE CHANGES IN SYSTEM NOW PREVALENT

The depression in the west and northwest appears to be spreading eastwards and northwards and will probably cause rainy weather to extend to all districts within the coming 24 hours.

## FORECASTS

for the 24 hours ending at NOON on 8<sup>th</sup> July 1887.

DISTRICTS.	FORECASTS.	DISTRICTS.	FORECASTS.
0 SCOTLAND NORTH	S <sup>ly</sup> and SW <sup>ly</sup> breezes, freshening; showery.	6 SCOTLAND WEST	S <sup>ly</sup> and SW <sup>ly</sup> breezes, freshening; cloudy, showery.
7 SCOTLAND EAST	S <sup>ly</sup> breezes, light; changeable, some rain.	7 ENGLAND N.W.	.....D.....D.....D.....
2 ENGLAND N.E.	.....D.....D.....D.....	8 ENGLAND S.W.	.....D.....D.....D.....
3 ENGLAND EAST	Same as N° 5.	9 IRELAND NORTH	.....D.....D.....D.....
4 MIDLAND COUNTIES	Same as N° 5.	10 IRELAND SOUTH	.....D.....D.....D.....
5 ENGLAND SOUTH	W <sup>ly</sup> and SW <sup>ly</sup> breezes, moderate; fair to showery.	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	52	47	NW 8	c	4	Holyhead ...	30.11	58	53	S 2	o	2
Sumburgh Head ...	29.98	48	44	N 3	c	3	Valencia ...	30.10	71	66	SW 4	c	4
Stornoway ...	30.02	56	53	Z 0	c	0	Scilly ...	30.17	70	64	SSW 2	b	4
Aberdeen ...	30.05	56	49	SSE 3	c	2	Dungeness ...	30.16	61	56	SSE 3	b	3
Shields ...	30.07	55	51	E 3	c	3	London ...	30.14	70	56	WSW 1	b	*
Ardrossan ...	30.05	58	54	SSW 2	o	2	Yarmouth ...	30.14	60	53	NNE 5	b	4
Malin Head ...	29.99	56	56	S 2	o	1	Jersey ...	30.21	67	56	W 3	b	3
Mullaghmore ...	30.02	60	59	W 1	o	1	Rochefort ...	30.21	67	62	SSW 7	b	2
Belmullet ...	30.01	65	63	WSW 1	o	*							

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

The reports for yesterday showed that pressure varied from between 30.0 in. and 30.2 in. over the British Islands, France and Spain, and from about 29.9 in. over Central Russia to about 29.3 in. over the Baltic and about 29.7 in. over Austria and the Balkan Peninsula. The result was that NW<sup>ly</sup> to N winds prevailed over Western Europe, and were of little strength, while S<sup>ly</sup> air was felt over Central and Eastern Europe, and a strong cyclonic circulation over the Baltic. Temperature had fallen greatly over Germany and the Baltic, and to a smaller extent over the British Islands and France in all of which region the morning values were low for the time of year. The highest readings reported were 88° at Biskra (Algeria), 80° at Pesaro, 79° at Palma and Palermo, 78° at Malta, 77° at Cagliari and 76° at Rome; the lowest 46° in the west of Norway, 47° at Sumburgh Head, 50° at Leno, 51° at Aberdeen, 54° at Berlin, 55° at Munich and 56° at Paris.

Later in the day S<sup>ly</sup> winds began to spread over Ireland from the W<sup>nd</sup>, and the appearance of the sky became unsettled and rain-like 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

Friday 8<sup>th</sup> July

1887.

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

Issued by the Meteorological Office, 16, Victoria Street, London, W. 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 ...	29.52	43	NW	2	0	29.76	+62	45	44	-6	N	4	c	*	52	43	0.12	
Hernösand ...	29.64	50	W	2	bc	29.95	+53	49	44	+1	N	4	c	*	57	43	0.08	
Stockholm ...	29.86	55	NW	2	bc	30.00	+39	56	47	+4	NW	2	c	*	63	46		
Wisby ...	29.86	54	W	2	b	29.94	+31	55	51	+1	N	2	b	*	64	48		
Bodö ...	29.80	46	NW	2	0	29.95	+33	47	44	+1	NW	4	c	2	50	43	0.04	
Christiansund...	30.07	46	W	3	0	30.11	+26	51	45	+4	WSW	1	bc	2	?	41		
Skudesnaes ...	30.04	49	NW	4	c	30.08	+33	52	46	+2	ESE	1	c	3	54	48		
Christiania Fjord (Fjorder)	29.83	59	SW	6	bc	30.02	+25	55	46	+1	N/E	6	b	4	61	52		
Skagen (The Scaw)	29.93	52	W	2	b	29.99	+22	57	54	+7	W	1	b	0	61	46	0.04	
Fanö ...	30.09	52	W	2	c	30.11	+14	53	52	-3	W	0	r	*	59	52	0.04	
BRITISH ISLANDS.																		
Sumburgh Head	30.00	48	Z	0	r	29.99	-01	51	50	+1	SE	3	0	4	51	46	0.05	
Stornoway ...	29.87	66	SW	1	bc	29.86	+25	58	58	+6	Z	0	0	0	66	48	0.26	
Wick ...	29.92	52	SSW	4	0	29.92	-05	59	57	+8	S	1	m	0	59	49	0.36	
Nairn ...	29.93	62	Z	0	0	29.92	-04	59	58	+8	ESE	1	bc	1	62	51	0.24	
Aberdeen...	29.94	56	S	1	c	29.95	-05	63	60	+10	SW	1	bc	2	64	52	0.09	
Leith ...	29.97	63	W	2	c	29.97	-03	69	62	+14	S	1	c	*	72	52	0.05	
Shields ...	30.00	72	W	3	b	30.01	-02	65	61	+12	SE	1	bc	2	73	53		
Spurn Head ...	30.06	62	SSE	3	bc	30.05	-01	64	60	+3	ESE	1	bm	2	68	58		
York ...	30.00	73	W	3	b	30.00	-05	67	62	+14	W	1	b	*	77	55		
Loughborough	30.07	78	NW	1	c	30.06	-04	69	61	+2	SW	2	bc	*	81	56		
AROUND THE ISLANDS.																		
Ardrossan ...	29.98	62	SW	2	c	29.94	-04	69	63	+11	ESE	1	bc	1	69	56		
Malin Head ...	29.93	65	NE	1	0	29.79	-13	64	60	0	S	4	0	2	71	60		
Mullaghmore ...	29.92	70	SW	2	c	29.76	-21	64	58	-3	SE	5	cm	3	72	60		
Belmullet ...	30.00	66	SSW	3	c	29.67	-27	64	60	-1	SSE	5	c	*	68	60		
Donaghadee ...	29.99	67	SSW	4	c	29.92	-10	60	58	-5	SSW	3	bc	2	75	55		
Barrow-in-Furness	30.06	65	SW	3	bc	29.98	-07	64	62	+5	NE	3	bc	*	67	58		
Liverpool (Bidston)	30.07	71	NW	2	b	29.98	-09	69	64	+3	SE	3	c	3	73	59		
Holyhead ...	30.08	63	SSW	4	c	29.92	-16	69	61	+8	SE	2	c	2	71	57		
Parsonstown ...	29.97	70	S	1	bc	29.77	-26	65	61	-3	SE	2	c	*	75	59		
Valencia ...	29.91	65	SSE	6	c	29.67	-34	64	62	-1	SSE	7	rm	6	67	61	0.12	
FRANCE & NETHERLANDS.																		
Roche's Point...	29.99	65	SW	4	c	29.78	-27	64	62	-1	S	5	0	4	68	62		
Pembroke ...	30.00	64	SW	1	bc	29.90	-22	63	60	+1	ESE	5	bc	5	65	57		
Scilly ...	30.04	64	SE	4	b	29.87	-27	67	63	+3	S	5	c	5	68	60		
Prawle Point ...	30.13	62	ESE	1	b	29.99	-20	64	59	+4	ESE	4	b	4	68	57		
Jersey ...	30.13	75	Z	0	b	30.01	-19	70	61	+5	E	3	bm	3	76	62		
GERMANY.																		
Hurst Castle ...	30.15	68	SSW	2	b	30.05	-14	67	63	+6	SSE	4	bc	1	68	56		
Dungeness ...	30.16	65	NW	4	bc	30.10	-04	64	61	+2	SW	3	bc	2	66	56		
London ...	30.11	74	SW	3	b	30.08	-07	71	60	+14	S	2	b	*	81	55		
Oxford ...	30.09	73	SW	1	b	30.05	-08	68	59	0	SE	3	b	*	78	55		
Cambridge ...	30.08	78	SW	1	b	30.08	-03	71	62	+1	S	1	b	*	82	54		
Yarmouth ...	30.09	65	SSE	3	b	30.09	+02	67	63	+2	SSW	2	b	2	68	58		
Cuxhaven ...	30.09	53	NW	2	c	30.16	+17	55	54	-3	SSE	2	bc	*	58	53		
Berlin ...	30.12	56	NW	3	0	30.19	+07	57	51	+2	NW	2	0	*	63	50		
Wiesbaden ...	*	*	*	*	*	30.24	-02	64	58	+7	NW	1	b	*	73	54		
Munich ...	30.25	60	NW	1	b	30.28	+03	63	56	+7	SE	1	b	*	66	46		
FRANCE & NETHERLANDS.																		
The Helder ...	30.12	63	NW	1	b	30.12	+06	62	59	+4	SW	3	c	2	68	54		
Brussels ...	*	*	*	*	*	30.15	-03	71	61	+14	S	3	b	*	76	57		
Cape Gris Nez...	30.16	64	SW	3	b	30.10	-05	70	61	+12	S	3	b	0	70	57		
Paris ...	30.17	74	S	1	b	30.15	-11	66	58	+8	SW	1	b	*	79	53		
Brest ...	30.10	70	S	3	b	29.96	-24	65	60	+1	SSE	5	bc	4	75	50		
Lorient ...	30.11	74	NW	1	b	29.99	-22	66	59	+5	SE	5	b	2	77	59		
Rocheport ...	30.11	80	E	5	b	30.06	-18	67	62	+5	ESE	4	b	2	91	57		
Belfort ...	30.17	69	NE	3	b	30.20	-02	65	56	+2	NE	3	b	*	78	48		
Lyons ...	30.12	73	N/E	1	b	30.17	-03	64	54	+6	ESE	1	b	*	75	55		
Nice ...	30.06	72	WSW	1	0	30.17	+21	74	64	+4	E	1	b	1	81	63		
PERIN- SULA.																		
Perpignan ...	30.08	77	E	3	b	30.13	+03	70	63	-1	E	3	b	*	84	55		
Biarritz ...	30.00	81	ESE	7	b	29.98	-19	75	68	+11	E	3	b	0	82	66		
Corunna ...	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	
Lisbon ...	30.03	68	NW	5	b	*	*	66	61	-4	NW	5	b	2	84	63		

For Explanation of Columns, see p. 4.



# WEATHER CHARTS

for 8 a.m. on Friday, 8<sup>th</sup> July, 1887.

## BAROMETER, WIND & SEA.

(Explanation of Map)

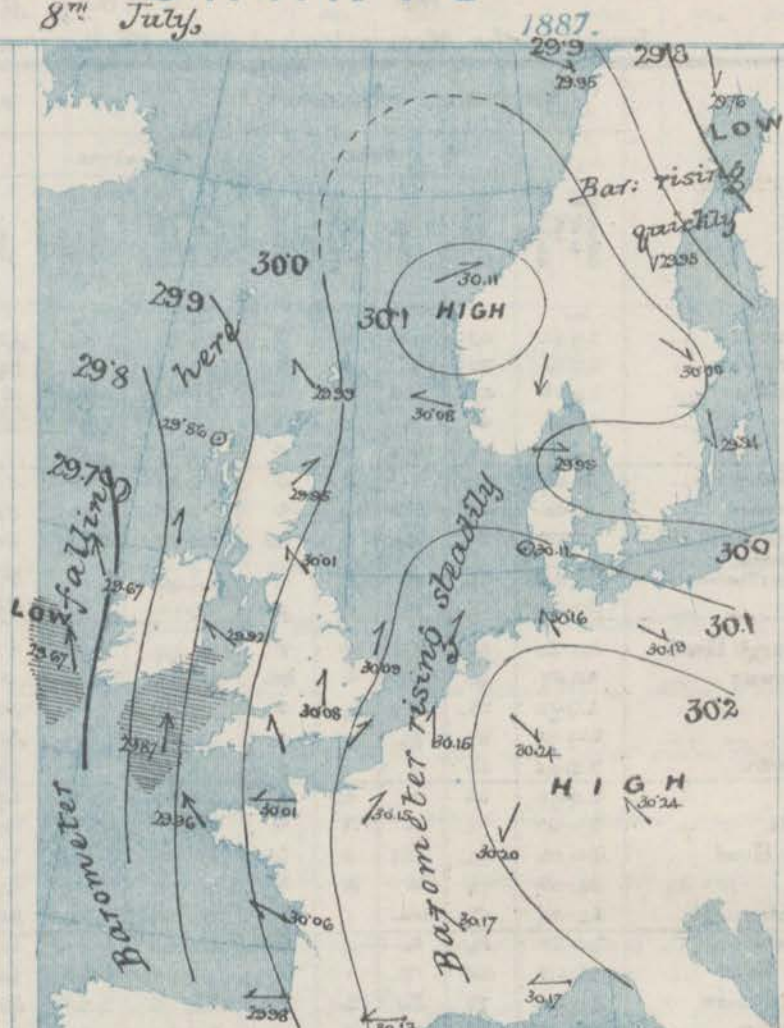
**Barometer**—Isobars are drawn for each tenth of an inch. Changes since previous morning are stated in words.  
**Wind**—Arrows show the prevalent winds. They fly with the wind and their barbs and feathers refer to force, thus—  
 — forces above 10; — forces 8 to 10;  
 — forces 6 to 7; — forces 1 to 4;  
 ⊙ = dead calm.

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 — Rough. — High.

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at 8 a.m. for the month of July.  
 During the 10 Years 1871—1880.

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Sumburgh Head	29.827
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Holyhead	29.914
Liverpool	29.910
Valencia	29.944
Roche's Point	29.940
Pembroke	29.942
Scilly	29.986
Hurst Castle	29.961
Dover	29.959
LONDON	29.955
Oxford	29.941
Cambridge	29.937
Yarmouth	29.934



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

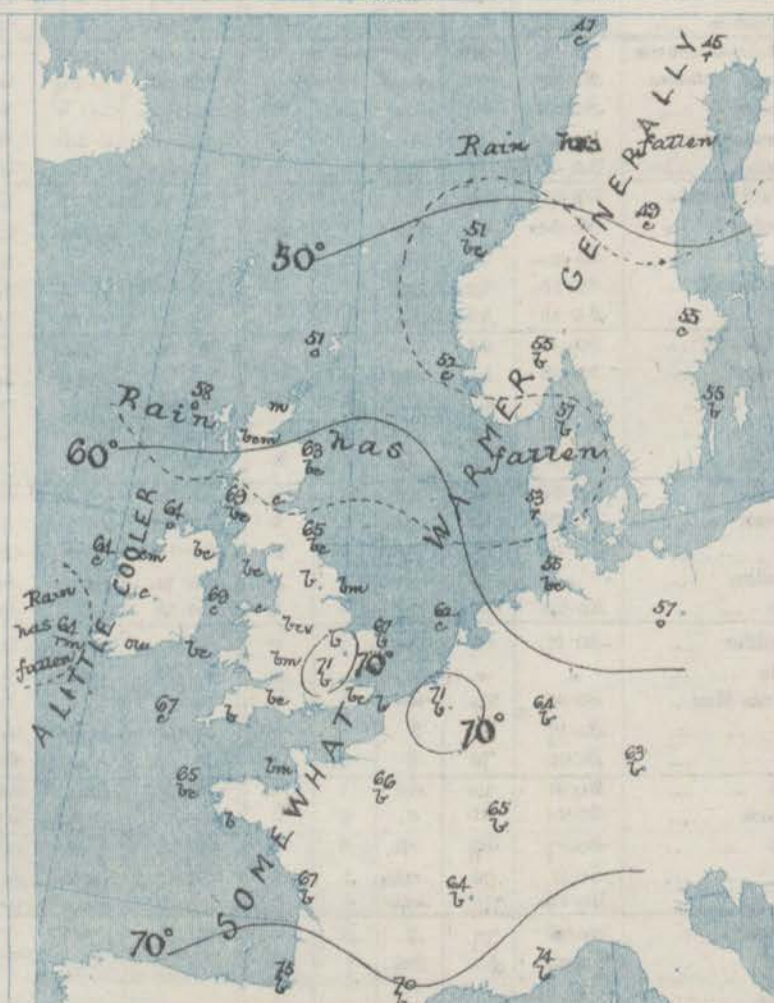
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**Weather**—is shown by Letters of the Beaufort Scale.  
**Rainfall**—A dotted line separates the districts in which rain has fallen from those where there has been none. Falls of 0.5 in. or more, are quoted in figures.

## MEANS OF TEMPERATURE IN SHADE. AND RAINFALL.

for the month of July.

STATIONS	TEMPERATURE				RAINFALL (Inches)
	Daily Max.	Daily Min.	At 8 a.m.	At 8 a.m.	
			Dry	Wet	
Sumburgh Head	67.9	48.6	53.7	52.2	2.09
Stornoway	60.3	49.7	56.4	54.8	3.02
Wick	62.4	49.4	56.2	53.9	2.25
Nairn	65.0	51.6	57.4	53.7	2.57
Aberdeen	64.4	51.7	57.9	54.4	2.74
Leith	68.0	52.0	59.1	55.9	2.84
Shields	64.6	53.6	58.8	55.5	2.63
York	68.1	52.3	59.7	56.5	2.57
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Yarmouth	66.7	55.5	61.4	58.4	2.68

NOTE—The Temperature means are for the 10 years 1871—80, the Rainfall means are mainly those for the 10 years 1866—85.





# GENERAL SITUATION AT 8 A.M.

## PRESSURE

Highest, 30.10 ins to 30.28 ins over the Netherlands, Western Germany, the east of France and the west of Norway.  
Lowest, 29.67 ins along the western coast of Ireland.  
Gradient, slight in the east, moderate in the west. Barometer falling - most in west and north-west, rising over the North Sea and Germany.

## TEMPERATURE

Highest, 75° at Biarritz, 74° at Nice, 71° at Brussels, Cambridge and in London, 67° at York.  
Lowest, 45° to 47° over the north of Scandinavia, 51° at Hamburg head, 64° over Ireland.  
It is rising fast over England, France and Germany.

## WIND

S<sup>ly</sup> or SE<sup>ly</sup> over our islands and the Channel, E<sup>ly</sup> in the south-west and south of France and at Jersey.  
Strong at the western stations, light in the east.  
N<sup>ly</sup> over Sweden and Denmark and NW<sup>ly</sup> in North Germany.

## WEATHER

Dull over western coasts, with rain in places; cloudy to the eastward of the North Sea, with rain locally, very fine over England, France and South Germany. In London there is much cirrus coming slowly from south-westward.  
[Rain fell at all the Dutch stations yesterday - especially in the east]

## SEA

Rough off the extreme west of Ireland, rather rough in the south-west, moderate in the north, smooth in the south-east and east.

## PROBABLE CHANGES IN SYSTEM NOW PREVALENT

The new depression in the west is moving northwards and does not seem likely to cause rain over England. At present there is no indication of any further depression advancing in the south-west.

## FORECASTS

for the 24 hours ending at NOON on 5<sup>th</sup> July 1887.

### DISTRICTS.

### FORECASTS.

0	SCOTLAND NORTH	SE <sup>ly</sup> and S <sup>ly</sup> winds, freshening; some showers
1	SCOTLAND EAST	S <sup>ly</sup> winds, moderate; fair, warm.
2	ENGLAND N.E.	----- D° ----- D° -----
3	ENGLAND EAST	Same as N° 5.
4	MIDLAND COUNTIES	Same as N° 5.
5	ENGLAND SOUTH	SE <sup>ly</sup> and S <sup>ly</sup> winds, moderate or fresh; fine.

### DISTRICTS.

### FORECASTS.

6	SCOTLAND WEST	S <sup>ly</sup> winds, fresh; cloudy, showers locally.
7	ENGLAND N.W.	----- D° ----- D° -----
8	ENGLAND S.W.	----- D° ----- D° -----
9	IRELAND NORTH	S <sup>ly</sup> winds, fresh or strong; rain at times.
10	IRELAND SOUTH	----- D° ----- D° -----

### 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.	Wva.	Sea.		Bar.	Dry.	Wet.	Wind.	Wva.	Sea.
Skudesnaes ...	29.6	54	48	NW 6	c	4	Holyhead ...	30.09	64	62	SEW 3	em	2
Sumburgh Head ...	30.00	48	44	SE 1	o	1	Valencia ...	29.96	67	65	S 6	o	5
Stornoway ...	29.8	63	62	W 2	bc	7.	Scilly ...	30.11	68	64	SE 2	b	4
Aberdeen ...	29.97	52	53	SE 2	c	2	Dungeness ...	30.14	65	61	WSW 5	bc	4
Shields ...	30.01	69	63	W 2	c	3	London ...	30.11	78	65	WSW 3	bc	*
Ardrossan ...	29.98	64	61	SEW 3	c	2	Yarmouth ...	30.09	66	63	SE 4	o	3
Malin Head ...	29.93	69	65	W 1	o	0	Jersey ...	30.17	71	60	SE 1	b	1
Mullaghmore ...	29.95	70	63	SW 5	o	3	Rochefort ...	30.18	88	72	E 4	b	2
Belmullet ...	29.94	67	65	SEW 3	o	*							

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

The reports for yesterday morning showed that pressure varied from between 30.1 in. in an anticyclonic system which lay over Germany, and 30.3 in. over France, the north of Spain and the south of the British Islands to about 29.1 in. over Finland, and to about 29.8 in. off the northwestern coasts of the United Kingdom. *S<sup>4</sup>* breeze and dull weather consequently prevailed on our western coasts, with showers in some localities; *W<sup>4</sup>* and *NW<sup>4</sup>* winds over Scandinavia (where much rain had fallen in the night); *SW<sup>4</sup>* and *W<sup>4</sup>* breeze and fair weather over our southern counties and North Germany, but *NE<sup>4</sup>* and *E<sup>4</sup>* breeze and fine bright weather in the south of France. Temperature had begun to recover over the United Kingdom, but remained low over France, Germany, the North Sea and the Baltic. The highest individual values were 88° at Biatra (Algeria), 82° at Cagliari and Oporto, 79° at Brindisi and Constantinople, 76° at Comma and Odessa, 75° at Barcelona, 72° at Kharkov, 71° at Perpignan & 70° at Nice and Moscow; the lowest were 46° at Bodø and Uleaborg, 47° at Christiansund and Cassel, 48° at Hernösand and Munster, 50° at Charleville and 51° at Breslau.

During the day the depression in the north travelled rapidly to the eastward, while that in the northwest moved northwards, and temperature rose to upwards of 80° over England. The barometer subsequently fell in the southwest and the wind backed to SE. on our southwestern coasts.

### 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 9<sup>th</sup> July

1887.

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 ..	29.99	48	2	0	c	30.13	+ .37	52	46	+ .7	N	2	bc	*	54	37	-	
	Hernösand ...	30.06	54	2	0	0	30.17	+ .12	54	49	+ .5	2	0	b	*	64	43	-	
	Stockholm ...	30.08	50	SE	2	b	30.12	+ .12	61	54	+ .6	2	0	b	*	63	46	-	
	Wisby ...	30.03	55	Wsw	2	c	30.08	+ .14	57	51	+ .2	NNE	2	b	*	63	52	-	
	Bodö ...	30.12	45	WNW	4	r	30.15	+ .20	50	46	+ .3	E	2	b	1	52	43	-	
	Christiansund...	30.09	50	NE	6	b	29.97	- .14	56	50	+ .5	ENE	3	b	2	?	50	-	
	Skudesnaes ...	30.05	54	2	0	0	29.91	- .17	57	51	+ .5	ESE	2	0	3	?	52	-	
	Christiania Fjord (Færd)	30.02	59	Wsw	4	c	30.06	+ .04	61	55	+ .6	S	4	c	2	63	?	-	
	Skagen (The Scaw)	30.06	54	NW	1	0	30.06	+ .07	60	55	+ .3	S	1	c	0	64	52	-	
	Fanö ...	30.08	55	SSE	4	c	29.98	- .13	61	59	+ .8	SE	4	b	*	61	?	0.04	
BRITISH ISLANDS.	Sumburgh Head	29.90	52	SE	3	m	29.69	- .30	52	52	+ .1	SE	2	b	4	54	49	-	
	Stornoway ...	29.67	63	2	0	bc	29.58	- .28	60	58	+ .2	SW	1	b	4	70	57	0.04	
	Wick ...	29.77	58	S	1	bc	29.63	- .29	55	55	- .4	2	0	r	0	65	53	0.84	
	Nairn ...	29.73	75	E	1	bc	29.62	- .30	59	59	0	2	0	r	0	75	58	0.04	
	Aberdeen...	29.84	64	S	2	bc	29.62	- .33	64	60	+ .1	SW	2	c	1	71	54	-	
	Leith ...	29.79	73	SW	1	bc	29.70	- .27	64	58	- .5	SW	1	b	*	82	60	-	
	Shields ...	29.82	65	SE	3	c	29.74	- .27	64	60	- .1	SW	1	c	2	71	61	-	
	Spurn Head ...	29.88	64	ESE	3	bc	29.79	- .26	63	60	- .1	WNW	4	cm	2	68	61	-	
	York ...	29.85	81	S	2	bc	29.79	- .21	66	61	- .1	W	3	bc	*	83	60	-	
	Loughborough	29.86	82	SSE	4	c	29.86	- .20	64	59	- .5	W	3	bc	*	85	61	-	
GERMANY.	Ardrossan ...	29.75	69	SSE	3	om	29.72	- .22	60	59	- .9	SW	3	b	2	73	55	0.50	
	Malin Head ...	29.64	62	SW	4	or	29.70	- .09	60	58	- .4	Wsw	3	o	2	75	54	0.32	
	Mullaghmore ...	29.68	61	SSE	3	0	29.69	- .07	61	56	- .3	SSE	4	c	2	71	53	0.07	
	Belmullet ...	29.68	63	Wsw	2	c	29.67	00	62	58	- .2	SW	2	bc	*	71	54	-	
	Donaghadee ...	29.75	62	S	3	c	29.75	- .17	65	62	+ .5	SW	3	bc	1	67	54	0.11	
	Barrow-in-Furness	29.77	75	SE	3	bc	29.79	- .19	61	61	- .3	SW	4	bc	*	79	58	-	
	Liverpool (Bidston)	29.79	79	SSE	2	0	29.82	- .16	65	59	- .4	SW	3	bc	3	83	57	0.07	
	Holyhead ...	29.80	62	SW	4	cm	29.81	- .11	62	59	- .7	SW	3	b	3	79	55	0.09	
	Parsonstown ...	29.73	65	2	0	bc	29.75	- .02	63	58	- .2	SE	1	bc	*	75	51	0.20	
	Valencia ...	29.74	64	S	5	c	29.67	- .00	62	59	- .2	SSE	5	c	6	76	53	0.17	
FRANCE & NETHERLANDS.	Roche's Point...	29.77	65	SW	3	cy	29.81	+ .03	64	62	0	SSW	4	bc	4	67	53	0.25	
	Pembroke ...	29.83	60	S	2	r	29.84	- .06	60	60	- .3	SSW	3	cp	3	68	56	0.26	
	Scilly ...	29.85	63	SW	2	0	29.89	+ .02	69	65	+ .2	SW	5	c	6	72	59	0.05	
	Prawle Point ...	29.90	63	Wsw	2	0	29.95	- .04	62	61	- .2	Wsw	3	cm	3	69	50	0.15	
	Jersey ...	29.95	64	WNW	3	c	30.00	- .01	63	60	- .7	SW	3	cm	3	80	59	-	
	Hurst Castle ...	30.00	71	S	2	bc	29.97	- .08	64	59	- .6	Wsw	3	c	2	76	59	-	
	Dungeness ...	29.94	67	SE	3	bc	29.93	- .17	60	60	- .4	Wsw	3	o	3	76	59	-	
	London ...	30.02	80	SSE	2	bc	29.92	- .16	64	61	- .7	Wsw	2	o	*	84	63	-	
	Oxford ...	29.88	73	SW	2	c	29.90	- .15	64	59	- .4	SW	2	c	*	81	59	-	
	Cambridge ...	29.92	76	SE	1	c	29.88	- .20	65	59	- .6	W	2	o	*	85	62	-	
PENINSULA.	Yarmouth ...	29.97	66	SSE	3	b	29.82	- .27	64	63	+ .1	W	4	bc	2	70	62	-	
	Cuxhaven ...	30.12	60	SE	1	m	30.01	- .15	65	63	+ .10	SE	2	m	*	66	54	-	
	Berlin ...	30.15	59	SE	1	0	30.12	- .07	64	57	+ .7	SE	2	b	*	71	54	0.79	
	Wiesbaden ...	*	*	*	*	*	30.08	- .16	68	61	+ .4	2	0	b	*	79	57	-	
	Munich ...	30.23	64	NNE	1	b	30.21	- .07	67	61	+ .4	SE	3	b	*	73	50	-	
	The Helder ...	30.02	69	E	1	bc	29.85	- .27	71	63	+ .9	S	4	o	2	79	?	-	
	Brussels ...	*	*	*	*	*	29.96	- .19	66	64	+ .5	Wsw	1	r	*	86	66	-	
	Cape Gris Nez...	29.93	79	2	0	b	29.94	- .16	61	60	- .9	Wsw	4	o	3	81	59	-	
	Paris ...	29.99	83	SE	3	b	30.05	- .10	63	62	- .3	SSW	3	o	*	88	61	0.08	
	Brest ...	29.98	63	S	4	m	30.04	+ .08	62	59	- .3	SW	4	b	5	75	50	-	

Received too late for insertion in Charts.

For Explanation of Columns, see p. 4.

The evening observations at Jersey were taken at 9pm.



# WEATHER CHARTS

for 8 a.m. on

Saturday, 9<sup>th</sup> July,

1887.

## BAROMETER, WIND & SEA.

(Explanation of Map)

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

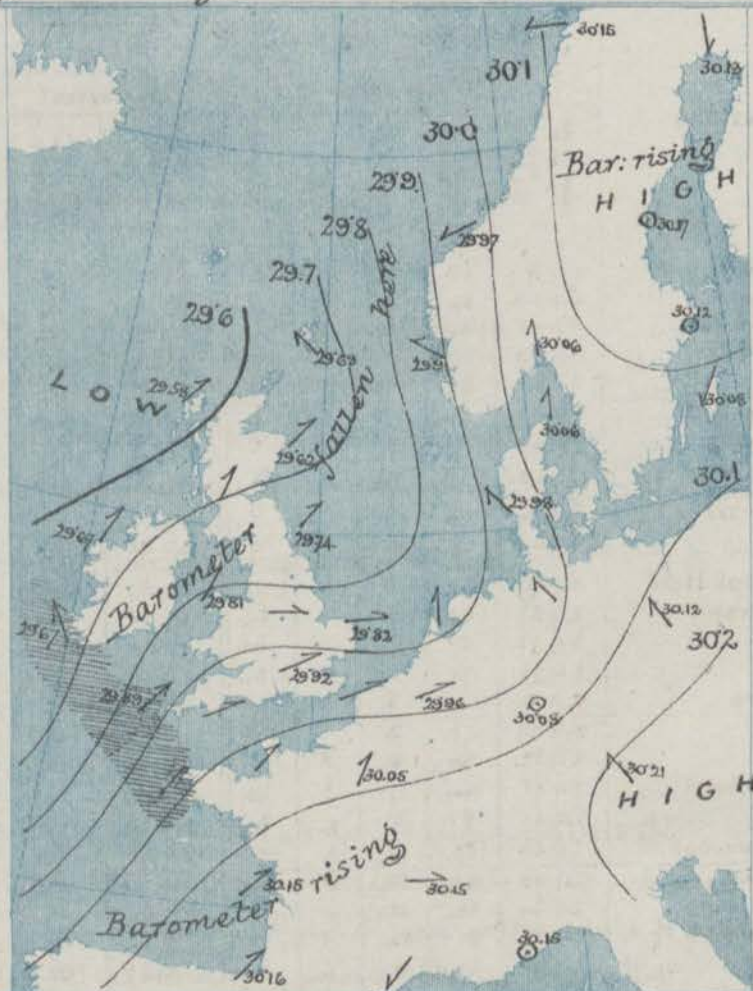
**Sea Disturbance** — where considerable is shown thus

— = Rough. — = High.

## MEAN HEIGHT of the BAROMETER

at 8 a.m. for the month of July.  
During the 10 Years 1871—1880.

STATIONS.	MEAN READINGS.
	in.
Sumburgh Head	29.827
Stornoway	29.709
Wick	29.813
Nairn	29.824
Aberdeen	29.829
Leith	29.848
Shields	29.873
York	29.902
Ardrossan	29.804
Donaghadee	29.878
Holyhead	29.914
Liverpool	29.910
Valencia	29.944
Roche's Point	29.940
Pembroke	29.942
Scilly	29.986
Hurst Castle	29.961
Dover	29.959
LONDON	29.955
Oxford	29.941
Cambridge	29.937
Yarmouth	29.934



## 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.

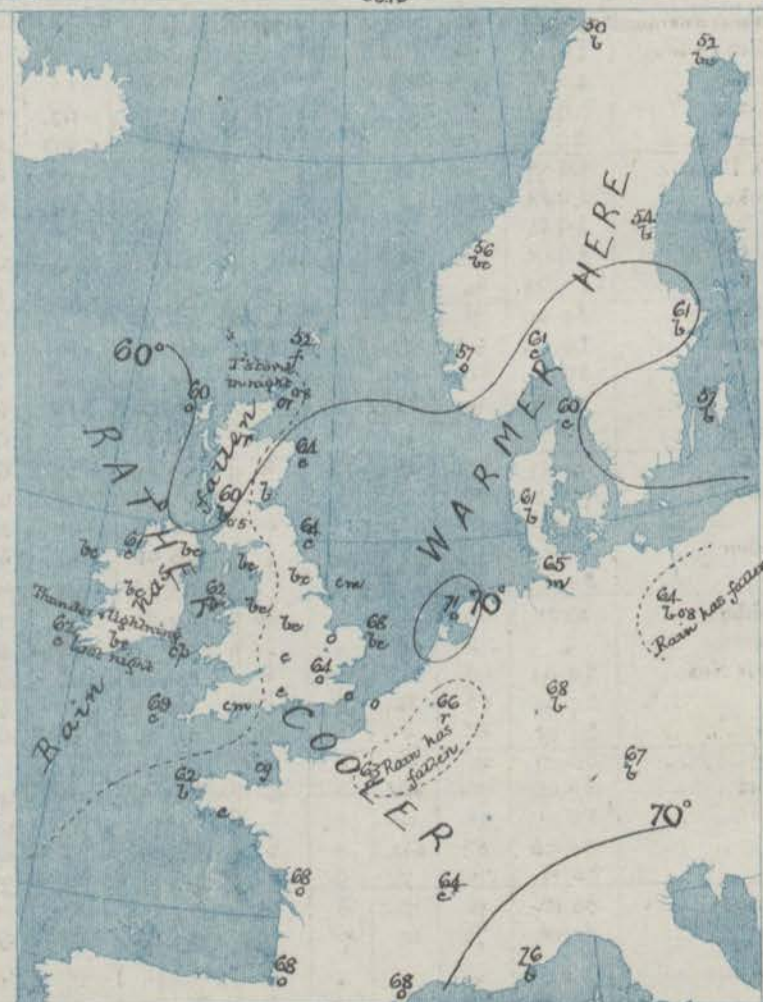
**Rainfall.** A dotted line separates the districts in which rain has fallen from those where there has been none. Falls of 0.5 in. or more, are quoted in figures.

## 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.	57.9	48.5	53.7	52.2	2.09
Stornoway	60.3	49.7	56.4	54.3	3.02
Wick	62.4	49.4	56.2	53.9	2.25
Nairn	65.0	51.6	57.4	53.7	2.57
Aberdeen	64.4	51.7	57.9	54.4	2.74
Leith	68.0	52.0	59.1	55.9	2.84
Shields	64.6	53.6	58.8	55.5	2.63
York	68.1	52.3	59.7	56.5	2.57
Ardrossan	64.0	53.8	57.8	54.8	2.91
Donaghadee	62.9	52.0	57.7	55.9	2.67
Holyhead	64.5	55.0	58.3	56.1	2.32
Liverpool	66.4	54.6	59.8	56.1	2.99
Valencia	64.5	53.9	59.0	56.2	3.91
Roche's Point	68.2	53.9	59.1	56.0	3.16
Pembroke	64.0	55.4	58.5	56.2	2.31
Scilly	65.0	56.9	60.3	58.2	2.29
Hurst Castle	67.9	56.4	61.7	59.2	2.15
Dover	67.4	57.5	63.0	59.2	1.82
LONDON	73.3	54.2	62.5	58.6	2.17
Oxford	69.9	53.7	60.4	57.1	2.51
Cambridge	72.5	52.8	61.3	58.0	2.30
Yarmouth	66.7	55.5	61.4	58.4	2.68

NOTE — The Temperature means are for the 10 years 1871—80, the Rainfall means are mainly those for the 10 years 1866—85.





# GENERAL SITUATION AT 8 A.M.

## PRESSURE

Highest, 30.22 ins at Lisbon, 30.21 ins at Munich; relatively high 30.1 ins and upwards in Sweden.  
Lowest, 29.6 ins and less in a depression lying over the north-west of Scotland.

## TEMPERATURE

Highest, 76° at Nice, 71° at Helder, 69° at Lillo, Cronna and Lisbon and 68° at Harwich, Rochefort, Havre and Perpignan.  
Lowest, 50° at Bodo, 52° at Tapaansa and Lumburg Head, 51° at Vennersund and 55° at Christiansund and Wiek.

## WIND

Light or moderate from the SW over Great Britain and the north and west of France.  
Moderate S.E. in the west of Ireland and also on the eastern shores of the North Sea.  
Calms or light variable in the south of France.

## WEATHER

Fine over the greater part of Western Europe, but cloudy in France and the south-east of England, and rainy in the north of Scotland.  
[Thunderstorms were experienced last night at Wick and Rocks Point, and lightning was seen at Spurn Head and Valencia.

## SEA

Rough at Valencia and Lillo, but slight or smooth elsewhere.

## PROBABLE CHANGES IN SYSTEM NOW PREVALENT

The depression which lay off the west of Ireland yesterday morning subsequently moved away in a northerly direction, but some shallow secondary disturbances are now shown over Scotland and the North Sea, while in the west of our islands there are signs of the approach of a new system from the south-westward.

With areas of high and increasing pressure over Sweden and Spain, there is a growing tendency for the development of shallow depressions in the intervening regions, and the general appearance is upon the whole less settled than for some time past.

## FORECASTS

for the 24 hours ending at NOON on 10<sup>th</sup> July 1887.

### DISTRICTS.

### FORECASTS.

0	SCOTLAND NORTH	Light breezes chiefly S <sup>ly</sup> ; cloudy, unsettled, some rain.	
1	SCOTLAND EAST	D°	D°
2	ENGLAND N.E.	SW <sup>ly</sup> and W <sup>ly</sup> winds, moderate; fair generally, but local thunder showers.	
3	ENGLAND EAST	D°	D°
4	MIDLAND COUNTIES	D°	D°
5	ENGLAND SOUTH	SW <sup>ly</sup> winds moderate; cloudy, some showers, thunder locally.	

### DISTRICTS.

### FORECASTS.

6	SCOTLAND WEST	S <sup>ly</sup> and SW <sup>ly</sup> winds, moderate; fair generally, but some showers.	
7	ENGLAND N.W.	D°	D°
8	ENGLAND S.W.	S <sup>ly</sup> and SW <sup>ly</sup> winds, moderate or fresh; changeable, some showers.	
9	IRELAND NORTH	D°	D°
10	IRELAND SOUTH	D°	D°

### 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.
Skudeanaes ...	30.08	56	49	W 2	0	3	Holyhead ...	29.84	76	63	S 4	c	3
Sumburgh Head ...	29.95	53	52	SE 3	m	4	Valencia ...	29.75	66	60	SW 3	em	4
Stornoway ...	29.77	69	66	S 1	bc	0	Scilly ...	29.86	66	63	S 4	om	4
Aberdeen ...	29.90	67	61	S 3	bc	2	Dungeness ...	30.02	74	67	S 1	b	1
Shields ...	29.91	67	63	SE 3	c	2	London ...	29.99	82	65	SE 4	bc	*
Ardrossan ...	29.82	69	63	SE 4	bc	2	Yarmouth ...	30.04	65	62	S 4	b	2
Malin Head ...	29.68	73	65	S 8	0	2	Jersey ...						
Mullaghmore ...	29.66	70	62	SE 5	om	2	Rochefort ...	30.06	81	72	SW 4	b	1
Belmullet ...	29.67	60	59	W 3	od	*							

## GENERAL REMARKS ON THE WEATHER OVER EUROPE

DURING THE PAST 24 HOURS.

Yesterday morning's reports showed that pressure varied from between 30.1 in. and 30.2 in. over the whole of Central and Southern Europe, and from about 30.1 in. over the coast of Norway to rather below 29.7 in. off the west coast of the British Isles, and to about the same value over Finland. Thus while SE<sup>4</sup> and S<sup>4</sup> winds prevailed over nearly the whole of Western Europe & the British Islands, N<sup>4</sup> winds were felt over Sweden and S<sup>4</sup> over the Gulf of Finland and northern Russia. In many places the wind was strong and the weather squally and showery, but over France, Germany and the North Sea it was generally light and the weather was fair and warm. Temperature varied from 80° and more over some parts of Algeria and the Spanish Peninsula, and from upwards of 70° in several parts of England to less than 50° over Northern Europe. The highest individual values were 82° at Biskra, Belhar and Comma, 78° at Barcelona, 77° at Malta, 76° at Brindisi, 75° at Cagliari and Palermo, 74° at Nice & 71° at Bona, Cambridge and in London; the lowest 45° at Uleaborg and Haparanda, 47° at Bodø, 49° at Hemösand, 51° at Sumburgh Head, Christiansund and Moscow, 52° at Riga and Warsaw and 53° at Lodi.

During the day the thermometer rose to 88° at Paris, 86° at Brussels and to 84° in London; the sky began to look very unsettled and fresh disturbances seemed to be approaching our island from the Atlantic.

## 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 Sunday 10<sup>th</sup> July 1887.

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

Issued by the Meteorological Office, 16, Victoria Street, London, W. 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 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 ..	30.12	51	Z	0	e		30.03	-10	56	50	+14	N	2	b	*		59	39	-
Hernösand ...	30.13	51	Z	0	bc		30.06	-11	51	48	-3	SW	2	0	*		66	43	-
Stockholm ...	30.07	55	SSW	2	b		30.00	-12	61	55	0	ESL	2	b	*		68	46	-
Wisby ...	30.06	55	WWS	2	b		29.97	-11	59	51	+2	ENE	4	b	*		66	35	-
Bodö ...	30.00	55	NE	2	b		?	?	56	50	+6	ENE	5	b	3		?	43	-
Christiansund...	29.78	55	ENE	1	0		?	?	57	51	+1	ENE	1	0	1		63	52	0.08
Skudesnaes ...	29.72	57	ENE	4	r		29.63	-28	59	55	+2	SE	2	c	3		64	57	0.95
Christiania Fjord (Fjord)	29.93	59	Z	0	e		29.82	-24	57	51	-4	ENE	4	0	2		64	55	-
Skagen (The Seaw)	29.89	61	W	3	0		29.70	+36	56	50	-4	SSW	4	0	3		?	?	0.54
Fanö ...	29.82	59	S	2	0		29.76	-22	66	61	+5	SW	2	b	*		75	55	0.12
BRITISH ISLANDS.																			
Sunburgh Head	29.52	53	Z	0	m		29.49	-20	53	52	+1	E	1	b	3		55	46	0.20
Stornoway ...	29.57	63	SW	1	bc		29.44	-14	57	55	-3	Z	0	c	0		66	47	-
Wick ...	29.59	62	S	2	bc		29.41	-22	57	56	+2	Z	0	0	0		62	51	0.38
Nairn ...	29.59	63	WWS	1	e		29.42	-20	57	56	-2	NE	1	op	2		70	56	0.36
Aberdeen...	29.64	60	SSW	2	b		29.41	-21	59	58	-5	SW	1	b	1		66	52	0.17
Leith ...	29.64	69	SW	3	bc		29.44	-26	62	58	-2	W	5	c	*		74	58	0.34
Shields ...	29.70	66	SW	3	0		29.55	-19	63	58	-1	SW	3	b	2		72	57	-
Spurn Head ...	29.80	69	SW	4	bc		29.64	-15	62	60	-1	SW	4	bc	2		72	57	-
York ...	29.78	68	SW	4	e		29.64	-15	64	58	-2	W	5	bc	*		78	57	0.04
Loughborough	29.84	68	SW	3	c		29.68	-18	63	61	-1	WWS	3	0	*		74	58	0.03
Ardrossan ...	29.64	64	SSW	1	0		29.51	-21	61	58	+1	W	4	c	3		65	55	0.20
Malin Head ...	29.53	60	SE	3	op		29.54	-16	59	57	-1	WWS	4	op	3		67	57	0.25
Mullaghmore ...	29.51	63	SSW	4	op		29.62	-07	58	55	-3	WWS	5	c	4		68	56	0.11
Beltanet ...	29.60	61	SW	2	0		29.63	-04	62	57	0	SW	1	b	*		65	57	0.20
Donaghadee ...	29.64	59	SW	3	r		29.61	-14	61	58	-4	WWS	6	bc	4		69	53	0.48
Barrow-in-Furness	29.73	67	SSW	4	r		29.60	-19	58	58	-3	SW	6	bc	*		68	57	0.45
Liverpool (Bidston)	29.75	65	S	3	0		29.67	-15	61	55	-4	W	6	b	4		74	56	0.05
Holyhead ...	29.71	60	SSW	5	opym		29.70	-11	59	56	-3	SW	4	b	4		66	54	0.19
Parsonstown ...	29.57	63	SW	1	0		29.69	-06	58	57	-5	Z	0	op	*		70	51	0.58
Valencia ...	29.63	63	WWS	3	c		29.71	+04	65	63	+3	WWS	4	0	5		65	54	0.52
Roche's Point...	29.65	62	SW	5	0		29.70	-11	62	60	-2	WWS	2	c	3		65	56	0.03
Pembroke ...	29.76	60	SW	4	bc		29.78	-06	59	57	-1	W	3	cp	4		61	56	0.21
Scilly ...	29.77	60	SW	6	r		29.84	-05	62	62	-7	SW	5	f	6		69	58	0.16
Prawle Point ...	29.90	60	S	6	0		29.81	-14	61	61	-1	WWS	6	cm	6		67	55	0.04
Jersey ...	29.98	68	SE	2	opym		29.87	-13	64	61	+1	WWS	5	cmg	4		71	59	0.03
Hurst Castle ...	29.94	62	WWS	5	0		29.82	-15	64	62	+3	WWS	5	cd	3		76	52	0.03
Dungeness ...	29.94	63	W	4	c		29.78	-15	59	59	-1	WWS	5	m	4		65	57	0.02
London ...	29.90	67	SW	4	bc		29.75	-19	66	64	+2	WWS	4	bc	*		78	57	0.02
Oxford ...	29.86	64	SW	3	b		29.70	-19	66	62	+2	W	3	c	*		76	57	0.05
Cambridge ...	29.84	73	SW	2	c		29.70	-18	67	63	+2	SW	3	c	*		80	57	0.03
Yarmouth ...	29.84	75	WWS	3	b		29.72	-10	62	60	+6	SSW	3	c	3		77	58	0.02
Cuxhaven ...	29.89	58	W	1	0		29.85	-16	62	61	-3	SW	1	m	*		79	58	0.06
Berlin ...	29.88	75	SE	2	0		29.85	-26	66	63	+2	WWS	1	0	*		72	61	0.35
Wiesbaden ...	*	*	*	*	*		29.97	-11	64	62	-4	?NE	3	0	*		82	63	0.43
Munich ...	30.15	69	WWS	2	0		30.08	-13	64	61	-3	SW	4	0	*		82	59	0.39
GERMANY.																			
The Helder ...	29.89	62	SW	3	b		29.80	-05	62	60	-9	SW	3	0	2		72	61	0.12
Brussels ...	*	*	*	*	*		29.89	-07	62	59	-4	WWS	4	r	*		71	61	0.16
Cape Gris Nez...	29.96	62	WWS	5	bc		29.80	-14	60	60	-1	SSW	8	r	6		64	57	0.04
Paris ...	30.01	67	SSW	3	0		29.98	-07	64	61	+1	WWS	3	0	*		75	60	0.08
Brest ...	29.99	62	SW	7	r		29.91	-07	61	58	-1	WWS	4	0	5		75	50	0.08
Lorient ...	30.04	65	WWS	7	0		30.04	-00	64	63	+1	W	3	0	4		72	59	0.08
Rochefort ...	30.15	69	W	4	0		30.14	-01	66	66	-1	WWS	7	0	2		79	61	0.04
Belfort ...	30.08	73	SW	1	0		30.08	-04	64	62	-10	SW	3	0	*		80	59	0.32
Lyons ...	*	*	*	*	*		*	*	*	*	*	*	*	*	*		*	*	*
Nice ...	30.11	76	SW	1	b		29.96	-19	71	62	-5	Z	0	0	1		84	64	-
Perpignan ...	30.08	71	NE	3	0		30.15	-01	74	52	+6	Z	0	bc	*		81	65	0.04
Biarritz ...	30.16	69	WWS	5	0		30.19	+03	68	66	0	WWS	3	c	2		75	64	-
FRANCE & NETHERLANDS.																			
Corunna ...	*	*	*	*	*		30.25	+10	68	66	-4	SW	5	f	5		77	64	-
Lisbon ...	30.21	p	WWS	7	b		30.21	-01	68	62	-4	W	7	b	3		79	63	-

SCANDINAVIA.

BRITISH ISLANDS.

GERMANY.

FRANCE & NETHERLANDS.

PENIN. ISLANDS.

For Explanation of Columns, see p. 4.



# WEATHER

# CHARTS

for 8 a.m. on Sunday 10<sup>th</sup> July. 1887.

## BAROMETER, WIND & SEA.

(Explanation of Map)

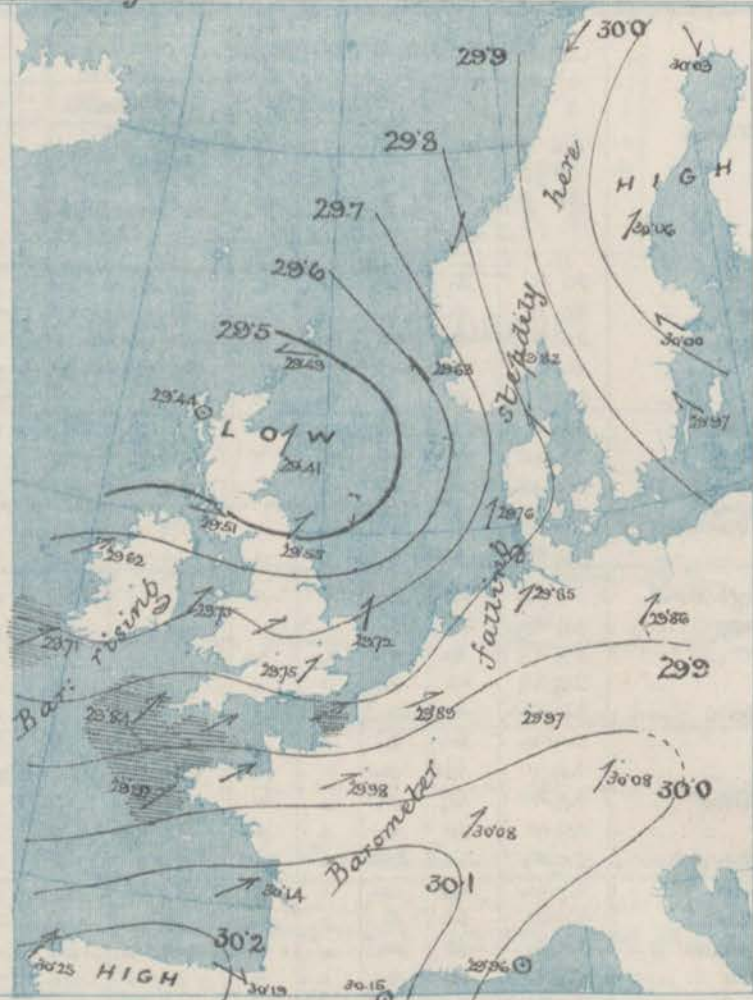
**Barometer** — Isobars are drawn for each tenth of an inch. Changes since previous morning are stated in words.  
**Wind** — Arrows show the prevalent winds. They fly with the wind and their barbs and feathers refer to force, thus —  
 — forces above 10, — forces 8 to 10,  
 — forces 5 to 7, — forces 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 10 Years 1871—1880.

STATIONS.	MEAN READINGS.
	in.
Samburgh Head	29.327
Stornoway	29.799
Wick	29.813
Nairn	29.824
Aberdeen	29.829
Leith	29.848
Shields	29.873
York	29.902
Ardrossan	29.864
Donaghadee	29.878
Holyhead	29.914
Liverpool	29.910
Valencia	29.944
Roche's Point	29.940
Pembroke	29.943
Scilly	29.986
Hurst Castle	29.961
Dover	29.959
LONDON	29.955
Oxford	29.941
Cambridge	29.937
Yarmouth	29.934



## 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.	
Samburgh Head.	57.9	48.5	53.7	52.2	2.09
Stornoway.	60.3	49.7	56.4	54.3	3.02
Wick.	62.4	49.4	56.2	53.9	2.25
Nairn.	65.0	51.6	57.4	53.7	2.57
Aberdeen.	64.4	51.7	57.9	54.4	2.74
Leith.	68.0	52.0	59.1	55.9	2.84
Shields.	64.6	53.6	58.8	55.5	2.63
York.	68.1	52.3	59.7	56.6	2.57
Ardrossan.	64.0	53.8	57.8	54.8	2.91
Donaghadee.	62.9	52.0	57.7	55.9	2.67
Holyhead.	64.5	55.0	58.3	56.1	2.32
Liverpool.	66.4	54.6	59.8	56.1	2.99
Valencia.	64.5	53.9	59.0	56.2	3.91
Roche's Point.	68.2	53.9	59.1	56.0	3.16
Pembroke.	64.0	55.4	58.5	56.2	2.31
Scilly.	65.0	56.9	60.3	58.2	2.29
Hurst Castle.	67.9	56.4	61.7	59.2	2.15
Dover.	67.4	57.5	63.0	59.2	1.82
LONDON.	73.3	54.2	62.5	58.6	2.17
Oxford.	69.9	53.7	60.4	57.1	2.51
Cambridge.	72.5	52.8	61.3	58.0	2.30
Yarmouth.	66.7	55.5	61.4	58.4	2.68

NOTE — The Temperature means are for the 10 years 1871—80, 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 Spain; relatively high 30.0 ins and upwards over the Gulf of Bothnia.  
Lowest, 29.4 ins to 29.5 ins in a depression lying over and to the northward of Scotland.  
Shallow subsidiary disturbances are lying over the central parts of Ireland and England.

## TEMPERATURE

Highest, 74° at Perpignan, 71° at Nice, 68° at Biarritz, Corunna and Lisbon and 67° at Cambridge.  
Lowest, 51° at Helsingland, 52° at Limerick Head, 56° at Brest, Haparanda and Hagen, and 57° at Christiansund, Torden, Hornøya, Vik and Naen.  
[The highest maxima registered yesterday were 80° at Cambridge and 78° at York and in London.]

## WIND

Moderate from E. or S.E. over the Netherlands and south of Scandinavia.  
S.W. or W. elsewhere; fresh or strong in force on exposed parts of our own and the French coasts.

## WEATHER

Fine in the north and east of England, and also in the north of Scandinavia.  
Cloudy or overcast elsewhere, with showers in Scotland and the north of Ireland.  
[Since yesterday morning showers have fallen generally, and thunder has been heard at Limerick Head.]

## SEA

Rough at several of the Channel stations, and rather rough at Valencia, but moderate to smooth elsewhere.

## PROBABLE CHANGES IN SYSTEM NOW PREVALENT

The depression which was approaching our western coasts yesterday morning now lies over Scotland, and the barometer is now rising at nearly all our western stations. Elsewhere the mercury continues to fall slowly.

## FORECASTS

for the 24 hours ending at NOON on 11<sup>th</sup> July 1887.

### 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.

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 ...	29.80	64	56	ESE 4	0	4	Holyhead ...	29.78	63	59	S 3	cp	3
Sumburgh Head ...	29.57	53	53	E 2	m	4	Valencia ...	29.61	64	63	SSW 6	tm	5
Stornoway ...	29.57	67	63	SW 1	c	0	Scilly ...	29.86	65	61	SW 5	0	6
Aberdeen ...	29.63	67	61	S 1	C	1	Dungeness ...	29.96	62	61	W 5	f	4
Shields ...	29.73	71	63	S 4	C	2	London ...	29.97	76	65	SW 3	be	*
Ardrossan ...	29.70	65	61	SSW 1	be	1	Yarmouth ...	29.87	74	63	SW 3	b	2
Malin Head ...	29.63	69	59	ESE 3	T	2	Jersey ...	30.00	67	62	SE 2	c	2
Mullaghmore ...	29.62	66	58	SE 3	op	2	Rochefort ...	30.14	76	69	WNW 3	0	2
Belmullet ...	29.58	60	58	SSE 3	T	*							

## 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 upwards over Southwestern and southern, and central and northern Europe to about 29.6 ins. in the Hebrides, to a little below 29.7 ins. off the southwest of Ireland and to about 29.9 ins. over central Russia. Over the United Kingdom the mercury was falling, but in Germany, Spain, and the south of France it was rising. Southwesterly winds prevailed over France and the south of our Islands, accompanied by some showers, while breezes from a more southerly quarter prevailed in Ireland and Scotland, and southeasterly to easterly winds in Norway. Over Finland and the Gulf of Bothnia the wind was northerly and over Poland and Western Russia northwesterly. Temperature, which was lower over the British Islands and France than on the 8<sup>th</sup>, but higher over Scandinavia, varied from somewhat above 80° over many parts of the Mediterranean to between 50° and 60° over the northern parts of Scandinavia and the Shetland Isles; its distribution between these regions, however, was very irregular. The highest individual values were 82° at Cagliari; 81° at Biskia (Algeria), 80° at Barcelona, 77° at Malta, Brindisi, and Livorno, 73° at Trieste, 72° at Carlsruhe and Utrecht and 68° at Yarmouth; the lowest 49° at Kropis, 50° at Bodi, 52° at Kaparanda and Sumburgh Head and 55° at Lemburg.

Later in the day the weather again became very warm over the continent, but the tendency to showery weather increased in the British Islands generally, though no rain of importance fell in the south and southeast of England.

### 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 11<sup>th</sup> July

1887.

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

Issued by the Meteorological Office, 5, Victoria Street, London, E.C. 1. H. 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 ..	29.92	55	N	2	b	29.86	-17	61	53	+5	NE	2	bc	*	66	41	-	
	Hernösand ...	29.91	50	Z	0	b	29.84	-22	53	49	+2	NE	4	b	*	68	?	-	
	Stockholm ...	29.90	52	E	2	bc	29.80	-20	60	55	-1	SE	2	c	*	64	48	-	
	Wisby ...	29.86	54	E	4	o	29.73	-24	57	53	-2	ESE	4	o	*	63	54	-	
	Bodö ...	29.81	60	SSW	2	bc	29.78	?	58	53	+2	E	2	c	1	64	52	-	
	Christiansund...	29.58	61	ESE	1	c	29.51	?	64	53	+7	SE	3	b	1	64	52	0.04	
	Skudesnaes ...	29.51	56	ESE	4	r	29.60	-03	52	51	-7	S	2	r	4	59	?	0.67	
	Christiania Fjord (Fæder)	29.70	54	E	4	o	29.56	-26	56	55	-1	Z	0	r	2	?	54	1.70	
	Skagen (The Scaw)	29.64	60	SSW	1	o	29.56	-14	58	57	+2	W	2	o	0	64	55	0.32	
	Fanö ...	29.68	58	WSW	4	o	29.67	-09	62	59	-4	W	4	c	*	68	57	0.12	
BRITISH ISLANDS.	Sumburgh Head	29.38	55	NE	1	o	29.48	-01	53	52	0	SW	1	o	2	56	48	0.04	
	Stornoway ...	29.47	62	Z	0	bc	29.56	+12	55	55	-2	SW	2	o	2	65	51	0.03	
	Wick ...	29.46	60	NW	3	o	29.55	+14	57	56	0	NW	2	o	0	63	49	-	
	Nairn ...	29.51	60	Z	0	r	29.53	+11	57	55	0	WSW	1	o	1	63	52	0.18	
	Aberdeen...	29.52	61	NW	1	bc	29.61	+20	61	57	+2	W	1	c	1	64	52	0.46	
	Leith ...	29.57	65	W	3	c	29.65	+21	61	56	-1	W	3	cm	*	69	55	0.02	
	Shields ...	29.61	68	W	4	c	29.71	+16	64	59	+1	WSW	3	c	2	69	55	-	
	Spurn Head ...	29.71	65	WSW	4	bc	29.78	+14	63	61	+1	WSW	4	bc	2	71	59	-	
	York ...	29.70	65	W	3	c	29.76	+12	63	60	-1	W	2	c	*	73	58	0.03	
	Loughborough	29.73	69	W	4	bc	29.83	+15	66	62	+3	W	3	c	*	75	60	-	
GERMANY.	Ardrossan ...	29.61	61	SW	1	r	29.68	+17	58	57	-3	SW	2	op	1	68	55	0.03	
	Malin Head ...	29.59	58	W	4	o	29.66	+12	57	57	-2	WSW	3	o	2	63	56	0.44	
	Mullaghmore ...	29.67	62	W	5	c	29.71	+09	59	59	+1	SSW	2	or	2	64	57	0.19	
	Belmullet ...	29.70	61	W	4	o	29.71	+08	60	59	-2	SW	2	r	*	64	58	0.12	
	Donaghadee ...	29.65	63	WSW	3	c	29.73	+12	60	58	-1	WNW	3	o	2	71	55	0.01	
	Barrow-in-Furness	29.67	60	SW	4	bc	29.73	+13	60	59	+2	SW	4	o	*	62	58	-	
	Liverpool (Bidston)	29.72	62	WNW	1	c	29.78	+11	64	60	+3	WSW	2	c	3	67	61	-	
	Holyhead ...	29.71	60	SSW	3	bc	29.80	+10	59	57	0	SW	3	c	3	62	56	0.03	
	Parsonstown ...	29.74	65	W	1	c	29.79	+10	61	59	+3	SW	1	r	*	68	57	0.11	
	Valencia ...	29.83	65	WSW	4	o	29.81	+10	65	63	0	SW	5	o	6	68	58	0.14	
FRANCE & NETHERLANDS.	Roche's Point...	29.80	69	W	4	bc	29.85	+15	64	62	+2	W	4	c	3	71	59	-	
	Pembroke ...	29.79	60	WSW	4	bc	29.87	+09	59	59	0	SW	3	o	3	62	58	-	
	Scilly ...	29.92	68	WSW	3	c	29.97	+13	64	62	+2	WSW	5	o	5	69	60	0.03	
	Prawle Point ...	29.92	60	SW	4	f	29.95	+14	60	60	-1	WSW	5	f	5	62	57	0.10	
	Jersey ...	30.00	65	W	4	o	30.00	+13	63	63	-1	WSW	5	r	4	68	60	0.05	
	Hurst Castle ...	29.85	62	W	6	m	29.92	+10	62	62	-2	WSW	6	dm	4	67	59	0.02	
	Dungeness ...	29.86	60	SW	5	f	29.91	+13	59	59	0	WSW	4	f	4	67	58	-	
	London ...	29.82	70	SW	4	evp	29.90	+15	68	62	+2	WSW	2	o	*	79	57	-	
	Oxford ...	29.81	66	WSW	3	b	29.87	+14	64	62	-2	SW	2	oa	*	74	60	-	
	Cambridge ...	29.77	71	SW	3	c	29.85	+15	68	61	+1	W	2	o	*	80	59	-	
PENIN- SULA.	Yarmouth ...	29.74	74	W	4	bc	29.83	+11	67	64	+5	W	4	bc	2	77	60	0.08	
	Cuxhaven ...	29.80	57	S	2	r	29.75	-10	63	62	+1	W	2	o	*	70	57	0.24	
	Berlin ...	29.82	68	SW	1	c	29.80	-06	65	61	-1	W	2	r	*	75	61	0.12	
	Wiesbaden ...	*	*	*	*	*	29.97	-00	69	?	+5	SW	4	c	*	72	63	-	
	Munich ...	30.10	62	W	4	c	30.10	+02	64	62	0	W	3	o	*	68	57	0.35	
	The Helder ...	29.77	61	SW	1	o	29.81	+01	62	60	0	WSW	4	c	3	66	61	0.04	
	Brussels ...	*	*	*	*	*	29.95	+06	66	61	+4	SW	5	o	*	75	?	-	
	Cape Gris Nez...	?	60	SW	8	f	29.93	+13	67	57	-3	SW	7	f	4	64	55	0.04	
	Paris ...	30.01	72	WSW	1	o	30.05	+07	67	65	+2	WSW	3	o	*	77	64	0.24	
	Brest ...	30.02	61	SW	7	f	30.09	+12	62	57	+1	NW	5	b	5	73	50	-	

For Explanation of Columns, see p. 4.



# WEATHER CHARTS

for 8 a.m. on Monday, 11<sup>th</sup> July, 1887.

## BAROMETER, WIND & SEA.

(Explanation of Map)

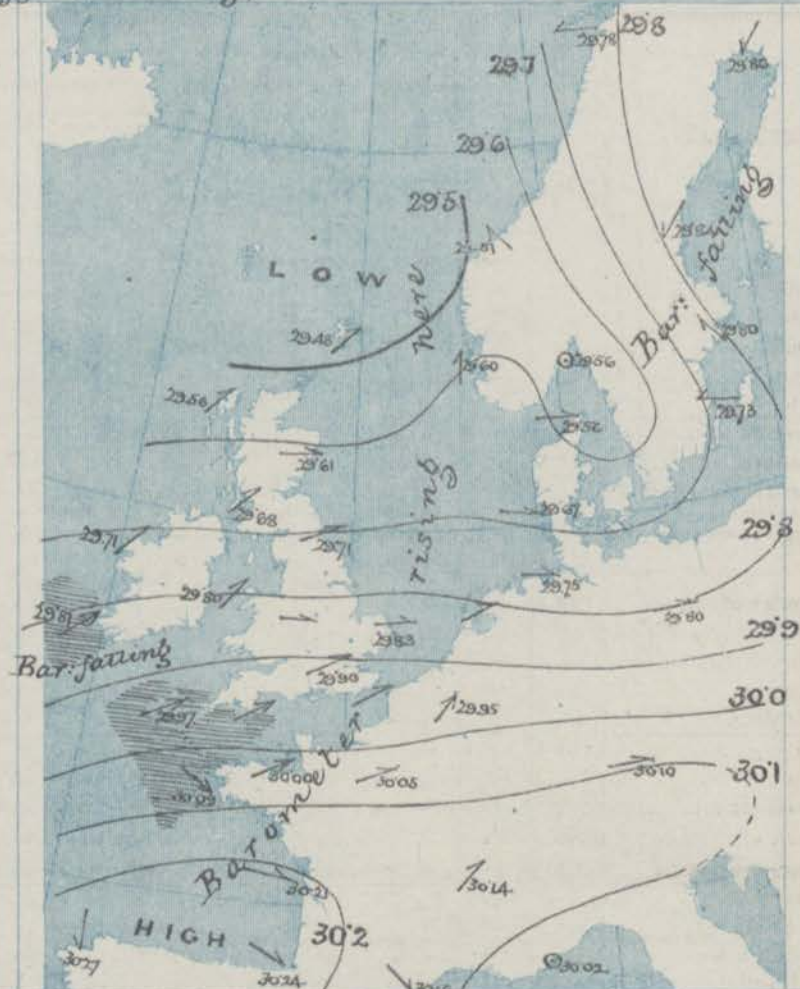
**Barometer**—Isobars are drawn for each tenth of an inch. Changes since previous morning are stated in words.  
**Wind**—Arrows show the prevalent winds. They fly with the wind and their barbs and feathers refer to force, thus—  
 — forces above 10; — forces 8 to 10;  
 — forces 5 to 7; — forces 1 to 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 10 Years 1871—1880.

STATIONS.	MEAN READINGS.
	in.
Sumburgh Head	29.827
Stornoway	29.799
Wick	29.813
Nairn	29.824
Aberdeen	29.829
Leith	29.848
Shields	29.878
York	29.902
Ardrossan	29.864
Donaghadee	29.878
Holyhead	29.914
Liverpool	29.910
Valencia	29.944
Rocha's Point	29.940
Pembroke	29.942
Scilly	29.986
Hurst Castle	29.961
Dover	29.959
LONDON	29.955
Oxford	29.941
Cambridge	29.937
Yarmouth	29.934



## 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.	At 8 a.m.	
			Dry.	Wet.	
Sumburgh Head	57.9	48.5	53.7	52.2	2.09
Stornoway	50.8	49.7	50.4	54.3	3.02
Wick	52.4	49.4	50.2	53.9	2.25
Nairn	55.0	51.6	57.4	53.7	2.57
Aberdeen	64.4	51.7	57.9	54.4	2.74
Leith	68.0	52.0	59.1	55.9	2.84
Shields	64.6	53.6	58.8	55.5	2.83
York	68.1	52.3	59.7	56.5	2.57
Ardrossan	64.0	53.8	57.3	54.8	2.91
Donaghadee	62.9	52.0	57.7	55.9	2.67
Holyhead	64.5	55.0	58.3	50.1	2.32
Liverpool	66.4	54.6	59.8	56.1	2.99
Valencia	64.5	53.9	59.0	56.2	3.91
Rocha's Point	68.2	53.9	59.1	56.0	3.16
Pembroke	64.0	55.4	58.5	56.2	2.31
Scilly	65.0	56.9	60.3	58.2	2.29
Hurst Castle	67.9	56.4	61.7	59.2	2.15
Dover	67.4	57.5	63.0	59.2	1.82
LONDON	73.3	54.2	62.5	58.6	2.17
Oxford	69.9	63.7	60.4	57.1	2.51
Cambridge	72.5	62.8	61.3	58.0	2.30
Yarmouth	66.7	55.5	61.4	58.4	2.68

Note—The Temperature means are for the 10 years 1871—80, the Rainfall means are mainly those for the 10 years 1866—85.





# GENERAL SITUATION AT 8 A.M.

## PRESSURE

Highest, 30.2 in. and upwards, over the north of Spain and the southern part of the Bay of Biscay.  
Lowest, 29.5 in. and less, in a large area lying to the northward of our islands.  
A shallow depression is lying over the Skager Rack.

## TEMPERATURE

Highest, 75° at Perpignan, 71° at Lisbon, 70° at Belfort and Nice, 69° at Wiesbaden and Biebrich, 68° at Cambridge, <sup>London</sup> Lyons & in  
Lowest, 53° at St. Petersburg, 53° at Helsingfors & Lomberg Head, 53° at Stormovoy and 56° at Saarder.  
The highest maxima registered yesterday were 80° at Cambridge, 79° in London and 77° at Harwich.

## WIND

Moderate from S.W. or W. over the greater part of western Europe, but S.E. <sup>4</sup>/<sub>5</sub> or E. <sup>4</sup>/<sub>5</sub> in Sweden and the north of Norway, and N. <sup>4</sup>/<sub>5</sub> at Corunna and Lisbon.

## WEATHER

Fair in the Eastern parts of Great Britain as well as in Sweden and the north of Norway.  
bull elsewhere, with fog at many of the Channel stations & rain over the north of Ireland & south of Norway.  
The rain experienced in London yesterday was very partial; at Bristol there was no measurable amount, but in the northwestern suburbs the showers were heavy.

## SEA

Rough at Valencia and rather rough at the mouth of the Channel, but moderate to smooth elsewhere.

## PROBABLE CHANGES IN SYSTEM NOW PREVALENT

The depression noticed over Scotland yesterday morning has travelled away to Scandinavia, while the shallow subsidiary disturbances which were then lying over England and Ireland have disappeared.

The barometer has consequently risen over the whole of our islands and France.

At Valencia, however, a new fall has set in since 10 pm. and this coupled with the appearance of rain in the north of Ireland seems to show that another depression is approaching from the westward.  
Showery weather is therefore likely to continue in most districts.

## FORECASTS

For the 24 hours ending at NOON on 12<sup>th</sup> JULY 1887.

### DISTRICTS.

### FORECASTS.

0	SCOTLAND NORTH	N <sup>ly</sup> and S <sup>ly</sup> winds, light; changeable; local showers.
1	SCOTLAND EAST	-----D-----D-----D-----
2	ENGLAND N.E.	N <sup>ly</sup> and S <sup>ly</sup> winds, moderate, fair to unsettled and some rain.
3	ENGLAND EAST	-----D-----D-----D-----
4	MIDLAND COUNTIES	Same as N° 5.
5	ENGLAND SOUTH	S <sup>ly</sup> winds, moderate to fresh; cloudy generally, with some showers. Thunder locally.

### DISTRICTS.

### FORECASTS.

6	SCOTLAND WEST	Same as N° 0 and 1.
7	ENGLAND N.W.	Same as N° 2 and 3.
8	ENGLAND S.W.	S <sup>ly</sup> to W <sup>ly</sup> winds, freshening; changeable, some rain.
9	IRELAND NORTH	-----D-----D-----D-----
10	IRELAND SOUTH	-----D-----D-----D-----

### 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 ...	29.59	57	55	SE 6	r	5	Holyhead ...	29.72	57	57	SSW 2	o	3
Sumburgh Head							Valencia ...						
Stornoway ...	29.43	65	60	W 3	bc	2	Scilly ...						
Aberdeen ...							Dungeness ...	29.82	65	63	WSW 5	c	4
Shields ...							London ...						
Ardrossan ...							Yarmouth ...						
Malin Head ...	29.52	61	59	W 3	o	3	Jersey ...	29.98	68	64	WSW 4	c	4
Mullaghmore ...							Rochefort ...	30.18	70	67	WSW 7	o	3
Belmullet ...	29.66	64	59	WNW 3	bc	.							

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

Yesterday morning's reports showed that pressure varied from 30.2 ins and more over Spain, and from about 30.0 ins over Sweden and the Gulf of Bothnia to about 29.4 ins over Scotland and the Hebrides, and to about 29.6 ins over Central Russia. SW winds prevailed over the whole of Western Europe, accompanied by a good deal of cloud, and showers in most places—especially in the west and north, while thunderstorms had been experienced in many parts of France. Temperature varied locally and fitfully, but no general change had occurred worth noting. It varied from 77° and upwards over the southern parts of the Mediterranean to rather below 60° over Northern Europe. The highest individual values were 84° at Cagliari, 81° at Palma, 80° at Biskra, 78° at Bilbao, 77° at Brindisi and San Fernando, 76° at Livourne and Palermo, 74° at Perpignan and 72° at Constantinople; the lowest, 51° at Hemsland, 53° at Kuopio and Sumburgh Head, 54° at Archangel, 55° at Alaborg and 56° at Bodo and the Snow.

Later in the day the tendency to showeriness over the British Islands decreased slightly and the barometer began to rise a little generally, but the change was evidently only temporary.

### SUMMARY OF CHANGES IN THE WEATHER OVER THE BRITISH ISLANDS AND THEIR NEIGHBOURHOOD.

FROM THE 3<sup>RD</sup> TO THE 9<sup>TH</sup> JULY 1887.

During this week there has been a very gradually increasing tendency towards the breaking up of the long period of fine weather which we have recently experienced. At the commencement of the week a band of high-pressure covered the southern part of Ireland, England, the Netherlands and Germany, and the W and SW winds in the north of our islands brought showers to an extreme northern and north-western stations only. Monday, however, found the showers more general, but, the southern, central and eastern stations remained dry and very warm, the daily maxima varying from 83° to 89° over England, while the air became closer than of late. Temperature now began to give way more decidedly, and the wind veered to the N<sup>W</sup> and showers spread southwards down our eastern coasts while small shallow depressions showed themselves in several places. Clouds increased both in amount and density, but the rain was still confined mainly to the northern parts of the United Kingdom, though it became heavy over parts of Scandinavia, Denmark and Germany. On Wednesday a fresh series of depressions began to appear in the north-west bringing with them S<sup>W</sup> winds, but very little rain, while the disturbances over Scandinavia and the Baltic began to decrease in intensity, and showers of rain fell at our northern stations. On Friday, however, the western disturbance increased, and a further quantity of rain fell in the west and north, while thunderstorms occurred in places. It is singular, however, that over London and the home counties the rainfall was scarcely measurable, so that at the close of the week there was no indication that any rain had fallen at all.

#### 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 12<sup>th</sup> July

1887.

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 ...	29.71	54	W	0	0	29.62	- 24	56	54	- 5	W	0	0	*	62	43	0.35	
Hernösand ...	29.76	54	W	0	0	29.68	- 16	58	51	+ 5	W	0	0	*	70	41	-	
Stockholm ...	29.78	54	SE	2	0	29.76	- 04	62	54	+ 2	W	2	0	*	66	46	-	
Wisby ...	29.74	56	E	2	0	29.76	+ 03	62	55	+ 5	ESE	2	0	*	66	52	-	
Bodö ...	29.72	62	ESE	2	0	29.62	- 16	58	52	0	ESE	4	0	1	62	52	-	
Christiansund ...	29.62	59	W	2	0	29.66	+ 15	60	56	- 4	E	2	0	1	68	59	-	
Skudesnaes ...	29.72	54	S	1	0	29.76	+ 16	58	54	+ 3	SE	1	0	3	59	52	0.08	
Christiania Fjord (Færdar) ...	29.68	55	W	4	0	29.73	+ 17	59	56	+ 3	W	2	0	1	?	55	0.08	
Skagen (The Scaw) ...	29.70	55	W	2	0	29.73	+ 17	60	57	+ 2	W	2	0	2	63	52	-	
Fanö ...	29.80	58	W	4	0	29.86	+ 19	63	60	+ 1	W	4	0	*	66	55	-	
BRITISH ISLANDS.																		
Sumburgh Head ...	29.89	52	W	0	0	29.64	+ 16	51	51	- 2	W	1	0	1	53	48	-	
Stornoway ...	29.65	60	W	2	0	29.64	+ 08	55	53	0	W	1	0	1	60	44	-	
Wick ...	29.65	55	W	1	0	29.68	+ 13	58	54	- 1	SE	1	0	0	61	45	0.01	
Nairn ...	29.66	61	W	1	0	29.68	+ 15	58	57	+ 1	W	0	0	1	66	53	-	
Aberdeen ...	29.65	65	SE	1	0	29.71	+ 10	59	57	+ 2	ESE	1	0	1	70	52	0.09	
Leith ...	29.69	64	W	3	0	29.71	+ 06	66	62	+ 5	W	2	0	*	69	58	0.01	
Shields ...	29.75	67	W	2	0	29.80	+ 09	67	63	+ 3	W	3	0	2	71	59	-	
Spurn Head ...	29.81	68	W	3	0	29.89	+ 11	66	62	+ 3	W	4	0	2	69	61	-	
York ...	29.80	68	W	3	0	29.87	+ 11	68	64	+ 3	W	3	0	*	72	60	-	
Loughborough ...	29.88	71	W	3	0	29.95	+ 12	66	63	0	W	3	0	*	77	62	-	
Ardrossan ...	29.71	60	SE	2	0	29.73	+ 05	60	59	+ 2	SE	3	0	3	61	56	0.16	
Malin Head ...	29.70	60	W	2	0	29.64	+ 02	60	60	+ 3	SE	4	0	3	62	47	0.18	
Mullaghmore ...	29.76	60	W	3	0	29.65	- 06	63	60	+ 4	S	6	0	5	66	58	0.15	
Belmullet ...	29.78	62	W	3	0	29.63	- 08	63	61	+ 3	SW	7	0	*	64	60	0.06	
Donaghadee ...	29.73	64	SE	1	0	29.78	+ 05	63	61	+ 3	SW	3	0	2	71	59	0.15	
Barrow-in-Furness ...	29.77	62	SW	5	0	29.83	+ 10	62	60	+ 2	SW	5	0	*	63	59	-	
Liverpool (Bidston) ...	29.81	68	SW	4	0	29.88	+ 10	68	62	+ 4	W	5	0	3	69	61	-	
Holyhead ...	29.81	62	SW	4	0	29.86	+ 06	59	59	0	SW	4	0	4	64	57	0.01	
Parsonstown ...	29.85	66	SW	2	0	29.75	- 04	65	61	+ 4	SE	2	0	*	70	59	0.01	
Valencia ...	29.90	66	SW	6	0	29.72	- 09	65	62	0	S	7	0	6	76	62	-	
Rochester Point ...	29.91	67	W	4	0	29.82	- 03	62	60	- 2	SW	4	0	3	71	57	-	
Pembroke ...	29.91	59	W	4	0	29.91	+ 04	60	60	+ 1	SW	5	0	4	62	58	-	
Scilly ...	30.03	68	W	4	0	29.95	- 02	68	65	+ 4	SW	4	0	5	71	61	-	
Prawle Point ...	30.04	60	W	5	0	30.04	+ 09	59	59	- 1	S	3	0	4	64	56	-	
Jersey ...	30.10	64	W	4	0	30.08	+ 08	64	63	+ 1	SW	2	0	7	68	59	0.02	
Hurst Castle ...	29.98	64	W	6	0	30.04	+ 12	61	60	- 1	W	5	0	4	67	57	-	
Dungeness ...	29.92	64	W	5	0	30.04	+ 13	57	57	- 2	W	4	0	3	64	57	0.01	
London ...	29.93	75	W	4	0	30.01	+ 11	67	62	- 1	W	2	0	*	79	60	-	
Oxford ...	29.95	66	W	3	0	29.99	+ 12	66	60	+ 2	SW	3	0	*	75	63	-	
Cambridge ...	29.88	75	W	3	0	29.98	+ 13	70	63	+ 2	W	2	0	*	80	59	-	
Yarmouth ...	29.84	75	W	4	0	29.96	+ 13	70	64	+ 3	W	4	0	2	77	60	-	
Cuxhaven ...	29.86	59	W	3	0	29.89	+ 14	63	62	0	W	1	0	*	68	57	-	
Berlin ...	29.86	64	W	1	0	29.93	+ 13	66	63	+ 1	W	2	0	*	72	61	0.12	
Wiesbaden ...	30.09	67	W	2	0	30.09	+ 12	67	62	- 2	W	4	0	*	79	63	-	
Munich ...	30.11	62	SW	2	0	30.17	+ 07	63	61	- 1	W	5	0	*	73	59	0.24	
FRANCE & NETHERLANDS.																		
The Helder ...	29.88	63	W	3	0	29.94	+ 13	64	61	+ 2	W	3	0	3	68	61	-	
Brussels ...	30.07	60	W	8	0	30.07	+ 12	63	59	- 3	W	3	0	*	74	60	0.08	
Cape Gris Nez ...	29.92	60	W	8	0	30.04	+ 11	57	57	0	SW	7	0	5	63	54	0.12	
Paris ...	30.06	76	W	4	0	30.14	+ 09	65	62	- 2	W	1	0	*	79	60	0.04	
Brest ...	30.15	66	W	3	0	30.08	- 01	61	60	- 1	S	4	0	5	75	50	-	
Lorient ...	30.16	67	W	5	0	30.11	+ 02	64	63	0	SW	1	0	4	72	61	-	
Rochefort ...	30.23	69	W	5	0	30.18	- 03	65	56	- 2	E	3	0	2	75	61	-	
Belfort ...	30.08	69	SW	1	0	30.14	+ 04	70	65	0	SW	3	0	*	81	62	-	
Lyons ...	30.11	74	W	1	0	30.12	- 02	69	64	+ 1	W	1	0	*	83	63	-	
Nice ...	30.09	73	E	1	0	30.03	+ 01	72	68	+ 2	W	3	0	2	79	63	-	
Perpignan ...	30.09	84	W	3	0	30.07	- 09	79	69	+ 4	W	3	0	*	82	70	-	
Biarritz ...	30.20	74	W	4	0	30.06	- 18	70	68	+ 1	E	4	0	2	77	64	-	
Corunna ...	30.09	76	W	8	0	30.03	- 04	69	64	- 2	W	5	0	2	88	66	-	
Lisbon ...	29.99	76	W	8	0	30.03	- 04	69	64	- 2	W	5	0	2	88	66	-	

For Explanation of Columns, see p. 4.





for 8 a.m. on Tuesday, 12<sup>th</sup> July, 1887.

(Explanation of Map)

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

$\rightarrow$  = forces above  $10_i$   $\rightarrow$  = forces 8 to  $10_i$   
 $\rightarrow$  = forces 5 to  $7_i$   $\rightarrow$  = forces 1 to  $4_i$   
 $\odot$  = dead calm.

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

at 8 a.m. for the month of July.  
During the 10 Years 1871—1880.

This is a hand-drawn weather map of the North Atlantic and Europe. The map features several isobars (lines of equal pressure) and wind direction indicators (arrows). Handwritten annotations provide additional information about the weather conditions.

**Key Features and Annotations:**

- Isobars:** Labeled with values such as 29.6, 29.7, 29.8, 29.9, 30.0, 30.1, 30.2, 30.3, 30.4, 30.5, 30.6, 30.7, 30.8, 30.9, 31.0, 31.1, 31.2, 31.3, 31.4, 31.5, 31.6, 31.7, 31.8, 31.9, 32.0, 32.1, 32.2, 32.3, 32.4, 32.5, 32.6, 32.7, 32.8, 32.9, 33.0, 33.1, 33.2, 33.3, 33.4, 33.5, 33.6, 33.7, 33.8, 33.9, 34.0, 34.1, 34.2, 34.3, 34.4, 34.5, 34.6, 34.7, 34.8, 34.9, 35.0, 35.1, 35.2, 35.3, 35.4, 35.5, 35.6, 35.7, 35.8, 35.9, 36.0, 36.1, 36.2, 36.3, 36.4, 36.5, 36.6, 36.7, 36.8, 36.9, 37.0, 37.1, 37.2, 37.3, 37.4, 37.5, 37.6, 37.7, 37.8, 37.9, 38.0, 38.1, 38.2, 38.3, 38.4, 38.5, 38.6, 38.7, 38.8, 38.9, 39.0, 39.1, 39.2, 39.3, 39.4, 39.5, 39.6, 39.7, 39.8, 39.9, 40.0, 40.1, 40.2, 40.3, 40.4, 40.5, 40.6, 40.7, 40.8, 40.9, 41.0, 41.1, 41.2, 41.3, 41.4, 41.5, 41.6, 41.7, 41.8, 41.9, 42.0, 42.1, 42.2, 42.3, 42.4, 42.5, 42.6, 42.7, 42.8, 42.9, 43.0, 43.1, 43.2, 43.3, 43.4, 43.5, 43.6, 43.7, 43.8, 43.9, 44.0, 44.1, 44.2, 44.3, 44.4, 44.5, 44.6, 44.7, 44.8, 44.9, 45.0, 45.1, 45.2, 45.3, 45.4, 45.5, 45.6, 45.7, 45.8, 45.9, 46.0, 46.1, 46.2, 46.3, 46.4, 46.5, 46.6, 46.7, 46.8, 46.9, 47.0, 47.1, 47.2, 47.3, 47.4, 47.5, 47.6, 47.7, 47.8, 47.9, 48.0, 48.1, 48.2, 48.3, 48.4, 48.5, 48.6, 48.7, 48.8, 48.9, 49.0, 49.1, 49.2, 49.3, 49.4, 49.5, 49.6, 49.7, 49.8, 49.9, 50.0, 50.1, 50.2, 50.3, 50.4, 50.5, 50.6, 50.7, 50.8, 50.9, 51.0, 51.1, 51.2, 51.3, 51.4, 51.5, 51.6, 51.7, 51.8, 51.9, 52.0, 52.1, 52.2, 52.3, 52.4, 52.5, 52.6, 52.7, 52.8, 52.9, 53.0, 53.1, 53.2, 53.3, 53.4, 53.5, 53.6, 53.7, 53.8, 53.9, 54.0, 54.1, 54.2, 54.3, 54.4, 54.5, 54.6, 54.7, 54.8, 54.9, 55.0, 55.1, 55.2, 55.3, 55.4, 55.5, 55.6, 55.7, 55.8, 55.9, 56.0, 56.1, 56.2, 56.3, 56.4, 56.5, 56.6, 56.7, 56.8, 56.9, 57.0, 57.1, 57.2, 57.3, 57.4, 57.5, 57.6, 57.7, 57.8, 57.9, 58.0, 58.1, 58.2, 58.3, 58.4, 58.5, 58.6, 58.7, 58.8, 58.9, 59.0, 59.1, 59.2, 59.3, 59.4, 59.5, 59.6, 59.7, 59.8, 59.9, 60.0, 60.1, 60.2, 60.3, 60.4, 60.5, 60.6, 60.7, 60.8, 60.9, 61.0, 61.1, 61.2, 61.3, 61.4, 61.5, 61.6, 61.7, 61.8, 61.9, 62.0, 62.1, 62.2, 62.3, 62.4, 62.5, 62.6, 62.7, 62.8, 62.9, 63.0, 63.1, 63.2, 63.3, 63.4, 63.5, 63.6, 63.7, 63.8, 63.9, 64.0, 64.1, 64.2, 64.3, 64.4, 64.5, 64.6, 64.7, 64.8, 64.9, 65.0, 65.1, 65.2, 65.3, 65.4, 65.5, 65.6, 65.7, 65.8, 65.9, 66.0, 66.1, 66.2, 66.3, 66.4, 66.5, 66.6, 66.7, 66.8, 66.9, 67.0, 67.1, 67.2, 67.3, 67.4, 67.5, 67.6, 67.7, 67.8, 67.9, 68.0, 68.1, 68.2, 68.3, 68.4, 68.5, 68.6, 68.7, 68.8, 68.9, 69.0, 69.1, 69.2, 69.3, 69.4, 69.5, 69.6, 69.7, 69.8, 69.9, 70.0, 70.1, 70.2, 70.3, 70.4, 70.5, 70.6, 70.7, 70.8, 70.9, 71.0, 71.1, 71.2, 71.3, 71.4, 71.5, 71.6, 71.7, 71.8, 71.9, 72.0, 72.1, 72.2, 72.3, 72.4, 72.5, 72.6, 72.7, 72.8, 72.9, 73.0, 73.1, 73.2, 73.3, 73.4, 73.5, 73.6, 73.7, 73.8, 73.9, 74.0, 74.1, 74.2, 74.3, 74.4, 74.5, 74.6, 74.7, 74.8, 74.9, 75.0, 75.1, 75.2, 75.3, 75.4, 75.5, 75.6, 75.7, 75.8, 75.9, 76.0, 76.1, 76.2, 76.3, 76.4, 76.5, 76.6, 76.7, 76.8, 76.9, 77.0, 77.1, 77.2, 77.3, 77.4, 77.5, 77.6, 77.7, 77.8, 77.9, 78.0, 78.1, 78.2, 78.3, 78.4, 78.5, 78.6, 78.7, 78.8, 78.9, 79.0, 79.1, 79.2, 79.3, 79.4, 79.5, 79.6, 79.7, 79.8, 79.9, 80.0, 80.1, 80.2, 80.3, 80.4, 80.5, 80.6, 80.7, 80.8, 80.9, 81.0, 81.1, 81.2, 81.3, 81.4, 81.5, 81.6, 81.7, 81.8, 81.9, 82.0, 82.1, 82.2, 82.3, 82.4, 82.5, 82.6, 82.7, 82.8, 82.9, 83.0, 83.1, 83.2, 83.3, 83.4, 83.5, 83.6, 83.7, 83.8, 83.9, 84.0, 84.1, 84.2, 84.3, 84.4, 84.5, 84.6, 84.7, 84.8, 84.9, 85.0, 85.1, 85.2, 85.3, 85.4, 85.5, 85.6, 85.7, 85.8, 85.9, 86.0, 86.1, 86.2, 86.3, 86.4, 86.5, 86.6, 86.7, 86.8, 86.9, 87.0, 87.1, 87.2, 87.3, 87.4, 87.5, 87.6, 87.7, 87.8, 87.9, 88.0, 88.1, 88.2, 88.3, 88.4, 88.5, 88.6, 88.7, 88.8, 88.9, 89.0, 89.1, 89.2, 89.3, 89.4, 89.5, 89.6, 89.7, 89.8, 89.9, 90.0, 90.1, 90.2, 90.3, 90.4, 90.5, 90.6, 90.7, 90.8, 90.9, 91.0, 91.1, 91.2, 91.3, 91.4, 91.5, 91.6, 91.7, 91.8, 91.9, 92.0, 92.1, 92.2, 92.3, 92.4, 92.5, 92.6, 92.7, 92.8, 92.9, 93.0, 93.1, 93.2, 93.3, 93.4, 93.5, 93.6, 93.7, 93.8, 93.9, 94.0, 94.1, 94.2, 94.3, 94.4, 94.5, 94.6, 94.7, 94.8, 94.9, 95.0, 95.1, 95

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.

for the month of July.

A hand-drawn map of Europe and North Africa with isotherms and handwritten notes. The map shows isotherms for 50, 60, 70, and 80 degrees. Handwritten notes include "A LITTLE WARMER" near the 60-degree line, "COOLER" near the 70-degree line, and "IN MOST PLACES" near the 80-degree line. Several areas are circled and labeled "Rain has fallen".

*NOTE* - The Temperature means are for the 10 years 1871-80, the Rainfall means are mainly those for the 10 years 1866-85



# GENERAL SITUATION AT 8 A.M.

## PRESSURE

Highest, 30.1 mms and upwards in an anticyclonic band lying over France and South Germany.  
Lowest, 29.6 mms and less in a depression, whose eastern portion lies off our extreme western coasts.  
The barometer is falling somewhat decidedly in Ireland, but rising at our eastern stations.

## TEMPERATURE

Highest, 74° at Lerpiperon, 72° at Nice and 70° at Cambridge, Harmouth, Belfast and Biarritz.  
Lowest, 51° at Dunburgh Head, 55° at Stromway and Skudenes, 56° at Haparanda and Utsik, and 58° at Nodö, Helsingfors and Hain.  
[During yesterday the thermometer rose to 77° at Loughborough and Harmouth, 79° in London and 80° at Cambridge.]

## WIND

Strong from S in the west of Ireland; moderate or fresh from SW over England and the east of Ireland.  
Moderate W in Denmark and Germany; light E in the north-west of Norway and the south-west of France.

## WEATHER

Dull on our western and northern coasts, with rain in some parts of Scotland and the north of Ireland.  
Fair or fine elsewhere, but foggy at many of the Channel stations.  
[Light showers fell yesterday in various localities, but in many instances the amount of rainfall was not measurable.]

## SEA

Rough at Valencia and rather rough at Mullaghmore and Lully, but moderate to smooth elsewhere.

## PROBABLE CHANGES IN SYSTEM NOW PREVALENT

The depression which is approaching our western coast seems likely to travel north-eastwards without materially affecting the weather over England. In the west and north a further increase of wind from the S<sup>W</sup> is, however, probable with rain in many places.  
The anticyclonic system over France is inclined to move eastwards.

## FORECASTS

for the 24 hours ending at NOON on

13<sup>th</sup> July

1887.

### DISTRICTS.

### FORECASTS.

### DISTRICTS.

### FORECASTS.

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

S<sup>W</sup> winds, freshening; cloudy, squally, some rain.

D<sup>o</sup> D<sup>o</sup>

Same as N<sup>o</sup> 5.

Same as N<sup>o</sup> 5.

Same as N<sup>o</sup> 5.

SW<sup>W</sup> winds, freshening; fair to cloudy and showery.

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

SW<sup>W</sup> and S<sup>W</sup> winds, freshening; cloudy, some rain.

D<sup>o</sup> D<sup>o</sup>



D<sup>o</sup> D<sup>o</sup>

S<sup>W</sup> and SW<sup>W</sup> winds, strong; dull, some rain.

D<sup>o</sup> D<sup>o</sup>

### 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.
Skudeenæs ...	29.70	59	54	S 1	c	3	Holyhead ...	29.82	68	60	SW 2	cmq	4
Sumburgh Head ...	29.85	52	51	W 1	0	2	Valencia ...	29.89	68	64	SW 5	om	5
Stornoway ...	29.62	58	57	W 2	0	2	Scilly ...	30.01	71	66	W 5	bc	5
Aberdeen ...	29.62	64	58	SW 1	c	1	Dungeness ...	29.92	66	62	W 4	m	3
Shields ...	29.71	67	62	W 3	c	2	London ...	29.88	71	67	W 3	bc	•
Ardrossan ...	29.72	60	59	W 4	0	2	Yarmouth ...	29.83	73	66	W 5	bc	2
Malin Head ...	29.69	61	60	W 2	0	1	Jersey ...	30.09	65	63	W 4	0	4
Mullaghmore ...	29.71	62	61	W 2	0 a	2	Rochefort ...	30.23	73	69	W 5	6	2
Belmullet ...	29.72	60	60	W 2	0	•							

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

The reports for yesterday morning showed that pressure varied from between 30.1 in. and 30.2 in. over Spain and the west of France, about 29.5 in. off the north of Scotland and west of Norway, and to about the same value over northern Russia. The winds were consequently W<sup>ly</sup> and SW<sup>ly</sup> except on the shores of the Baltic and over Central Europe, where they were very light and variable. The weather was cloudy in the region of the SW winds, there were local showers in many places, most of them slight, and thunder was reported locally, but over the Baltic the weather was finer. Temperature continued to be very uniformly distributed, the readings varying from 80° and upwards over many parts of the Mediterranean to very little above 50° over many parts of Scandinavia and the extreme northern parts of the British Islands. The highest individual values were 84° at Cagliari, 83° at Biotra, 82° at Palma and Barcelona, 77° at Brindisi, Trieste and Bilbao, 76° at Malta, 70° at Belfort & 68° in London; the lowest were 52° at Skudeenæs, 53° at Helsingfors and Sumburgh Head, 55° at Stornoway and 57° at Wisby.

During the day there was little change of importance to note.

### 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 13<sup>th</sup> July

1887.

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 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 ..	29.67	54	2	0	c	29.86	+ .24	56	54	0	S	2	b	*		64	50	—
Hernösand ...	29.74	58	SSW	4	b	29.83	+ .15	64	58	+ 6	SSW	2	b	*		70	41	—
Stockholm ...	29.86	58	SW	2	b	29.99	+ .23	66	60	+ 4	SW	2	c	*		70	46	—
Wisby ...	29.83	57	W	2	b	29.96	+ .20	63	59	+ 1	W	2	b	*		66	52	—
Bodö ...	29.65	51	WSW	5	c	29.78	+ .16	53	52	- 5	WSW	2	c	1		63	48	0.04
Christiansund...	29.67	55	ESE	1	f	29.67	+ .01	56	53	- 4	SE	2	b	1		61	48	0.28
Skudesnaes ...	29.79	58	SSE	4	f	29.79	+ .03	57	55	+ 2	W	4	f	4		59	55	0.07
Christiania Fjord (Færder)	29.79	62	SW	4	b	29.89	+ .16	58	58	- 1	S	4	b	3		63	57	—
Skagen (The Scaw)	29.87	60	SW	1	b	29.93	+ .20	60	59	0	SSW	1	b	0		68	55	—
Fanö ...	29.73	57	WSW	1	f	29.95	+ .09	65	61	+ 2	SSW	4	b	*		66	57	—
BRITISH ISLANDS.																		
Sumburgh Head	29.63	53	E	1	o	29.53	- .11	54	54	+ 3	2	0	0	1		59	50	0.31
Stornoway ...	29.48	60	SW	5	b	29.45	- .19	57	57	+ 2	2	0	0	0		60	53	0.65
Wick ...	29.54	59	S	1	o	29.51	- .17	62	60	+ 6	SW	2	0	0		62	56	0.10
Nairn ...	29.55	67	W	1	c	29.52	- .16	62	60	+ 4	2	0	c	0		68	57	0.09
Aberdeen...	29.53	67	S	2	c	29.58	- .13	60	59	+ 1	SSW	2	0	1		69	57	—
Leith ...	29.66	69	W	4	o	29.58	- .13	63	61	- 3	W	1	cp	*		74	61	0.06
Shields ...	29.76	71	SW	4	c	29.69	- .11	64	62	- 3	3	4	c	2		75	62	—
Spurn Head ...	29.83	73	WSW	4	b	29.80	- .09	68	63	+ 2	SSW	3	b	2		80	60	—
York ...	29.82	72	WSW	4	b	29.76	- .11	66	63	- 2	S	3	0	*		80	58	—
Loughborough	29.88	72	SW	3	o	29.79	- .16	66	63	0	SSW	3	c	*		80	61	—
GERMANY.																		
Ardrossan ...	29.65	60	S	4	o	29.54	- .14	59	59	- 1	S	4	0	3		63	57	0.27
Malin Head ...	29.49	64	S	4	o	29.42	- .12	60	59	0	S	4	0	3		68	57	0.06
Mullaghmore ...	29.52	67	SSW	7	c	29.47	- .18	60	59	- 3	SSW	4	c	3		68	58	0.15
Belmullet ...	29.52	63	SW	4	b	29.44	- .14	63	60	0	SSW	3	c	*		64	59	0.16
Donaghadee ...	29.65	61	SSW	4	c	29.55	- .23	60	59	- 3	SSW	5	0	3		68	59	0.27
Barrow-in-Furness	29.78	63	SW	5	c	29.76	- .07	61	60	- 1	SE	5	p	*		65	60	0.05
Liverpool (Bidston)	29.81	69	S	3	o	29.69	- .19	67	60	- 1	SSE	4	c	3		74	62	—
Holyhead ...	29.77	61	S	4	c	29.66	- .20	58	58	- 1	SSW	4	b	4		64	58	0.10
Parsonstown ...	29.62	64	SSE	1	o	29.55	- .20	62	59	- 3	S	1	c	*		70	57	0.18
Valencia ...	29.61	65	SSW	5	o	29.51	- .21	62	58	- 3	SSW	7	c	6		66	59	0.18
Roche's Point...	29.67	60	SSW	5	b	29.59	- .23	60	58	- 2	SW	3	b	4		65	55	0.15
Pembroke ...	29.83	61	SSW	5	c	29.70	- .21	58	58	- 2	SW	3	cp	4		63	57	0.14
Scilly ...	29.85	65	S	5	o	29.73	- .22	64	63	- 4	SW	4	b	5		71	58	0.14
Prawle Point ...	29.95	59	S	3	o	29.82	- .22	60	60	+ 1	S	4	0	4		62	56	0.04
Jersey ...	29.76	72	SE	2	b	29.86	- .22	64	62	0	W	3	b	3		72	59	—
Hurst Castle ...	29.90	64	S	1	c	29.83	- .21	66	64	+ 5	WSW	2	c	1		68	57	—
Dungeness ...	30.00	63	WSW	3	b	29.84	- .20	65	62	+ 8	SSE	3	b	3		65	56	—
London ...	29.97	68	WSW	3	b	29.81	- .20	76	67	+ 9	S	5	b	*		79	60	—
Oxford ...	29.93	66	SSW	3	c	29.81	- .18	63	61	- 3	S	1	0	*		76	59	—
Cambridge ...	29.93	71	SW	3	c	29.84	- .14	74	66	+ 4	S	3	b	*		84	57	—
Yarmouth ...	29.91	69	S	5	b	29.85	- .11	65	63	- 4	SSE	4	b	3		75	61	—
Cuxhaven ...	30.00	62	W	2	b	30.01	+ .12	69	65	+ 6	SSW	2	b	*		70	61	—
Berlin ...	30.01	69	WNW	1	b	30.12	+ .19	67	65	+ 1	SW	1	b	*		75	61	—
Wiesbaden ...	30.01	67	W	1	b	30.08	- .01	70	64	+ 3	E	2	b	*		75	59	—
Munich ...	30.13	67	NE	1	b	30.15	- .02	69	63	+ 6	E	6	b	*		75	54	—
FRANCE & NETHERLANDS.																		
The Helder ...	29.97	63	SW	2	b	29.94	- .03	70	66	+ 6	S	1	b	1		70	59	—
Brussels ...	30.00	64	S	1	b	29.93	- .14	74	68	+ 11	SSE	3	b	*		82	63	—
Cape Gris Nez...	30.03	78	SSE	3	b	29.88	- .16	78	67	+ 16	S	3	b	1		84	61	—
Paris ...	29.98	63	SW	5	o	29.93	- .21	68	63	+ 3	SSE	3	b	*		83	61	—
Brest ...	29.99	70	W	3	b	29.92	- .19	64	63	0	WNW	5	0	4		72	63	—
Lorient ...	29.98	73	WNW	4	b	30.02	- .16	66	66	+ 2	W	5	c	2		79	63	—
Rochefort ...	30.06	80	NE	3	b	30.05	- .09	73	66	+ 3	NE	1	b	*		84	59	—
Belfort ...	29.99	80	NNE	1	b	30.02	- .10	72	64	+ 3	SSE	1	b	*		84	62	—
Lyons ...	30.00	93	W	1	b	30.06	+ .03	73	67	+ 1	2	0	b	0		82	64	—
Nice ...	29.96	78	E	1	c	30.02	- .05	72	69	- 7	NE	4	0	*		88	68	—
Perpignan ...	29.88	85	ESE	5	c	30.03	- .03	70	68	0	WSW	4	0	2		91	68	—
Biarritz ...	30.02	67	NNW	7	b	30.13	- .10	65	62	- 4	NNW	5	b	2		82	61	—
PENINSULA.																		
Corunna ...	30.02	67	NNW	7	b	30.13	- .10	65	62	- 4	NNW	5	b	2		82	61	—
Lisbon ...	30.02	67	NNW	7	b	30.13	- .10	65	62	- 4	NNW	5	b	2		82	61	—

For Explanation of Columns, see p. 4.



# WEATHER CHARTS

for 8 a.m. on

WEDNESDAY.

13<sup>th</sup> July.

1887.

## 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 —

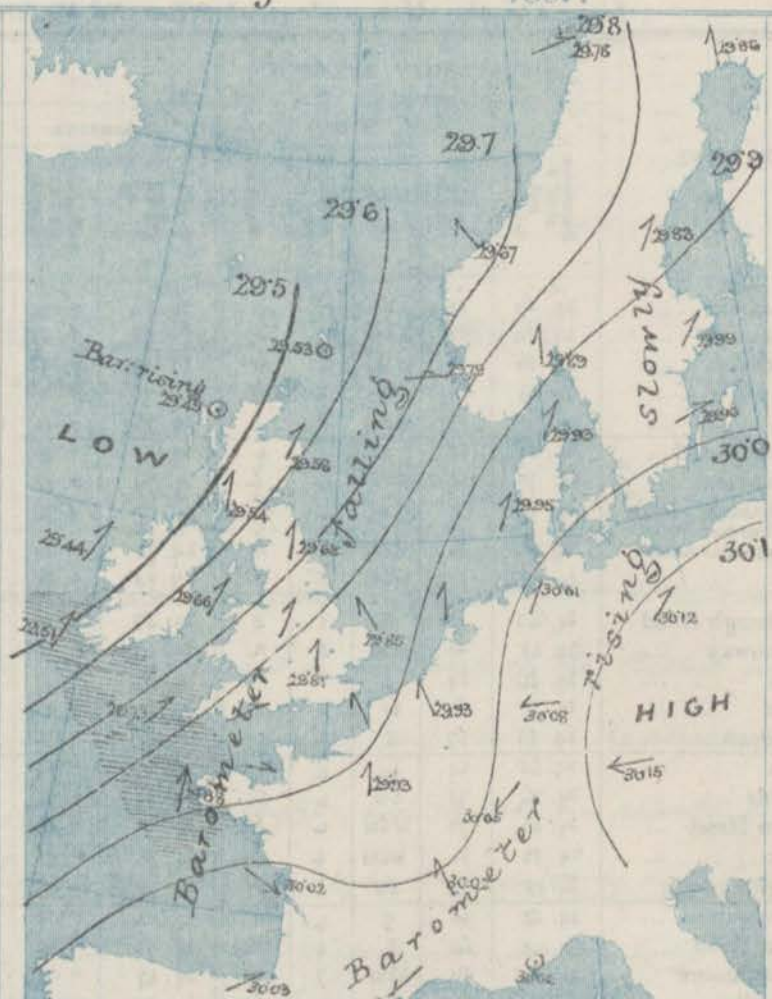
→ = force above 10, → = force 8 to 10,  
→ = force 5 to 7, → = force 1 to 4,  
○ = dead calm.

**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 10 Years 1871—1880.

STATIONS.	MEAN READINGS.
Sumburgh Head	29.827
Stornoway	29.790
Wick	29.813
Nairn	29.824
Aberdeen	29.829
Leith	29.848
Shields	29.873
York	29.902
Ardrossan	29.864
Donaghadee	29.878
Holyhead	29.914
Liverpool	29.910
Valencia	29.944
Roche's Point	29.940
Pembroke	29.942
Scilly	29.986
Hurst Castle	29.961
Dover	29.959
LONDON	29.955
Oxford	29.941
Cambridge	29.937
Yarmouth	29.934



## 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.	At 8 p.m.	
Sumburgh Head	57.9	48.5	53.7	52.2	2.09
Stornoway	60.8	49.7	56.4	54.8	3.02
Wick	62.4	49.4	56.2	53.9	2.25
Nairn	65.0	51.6	57.4	53.7	2.57
Aberdeen	64.4	51.7	57.9	54.4	2.74
Leith	68.0	52.0	59.1	55.0	2.84
Shields	64.6	53.6	58.8	55.5	2.63
York	68.1	52.3	59.7	56.5	2.57
Ardrossan	64.0	53.8	57.8	54.8	2.91
Donaghadee	62.9	52.0	57.7	55.9	2.67
Holyhead	64.5	55.0	58.3	56.1	2.32
Liverpool	66.4	54.6	59.8	56.1	2.00
Valencia	64.5	53.9	59.0	56.2	3.91
Roche's Point	68.2	53.9	59.1	56.0	3.16
Pembroke	64.0	55.4	58.5	56.2	2.31
Scilly	65.0	56.9	60.3	58.2	2.29
Hurst Castle	67.9	56.4	61.7	59.2	2.15
Dover	67.4	57.5	63.0	59.2	1.82
LONDON	73.3	54.2	62.5	58.6	2.17
Oxford	69.9	53.7	60.4	57.1	2.51
Cambridge	72.5	52.8	61.3	58.0	2.80
Yarmouth	66.7	55.5	61.4	58.3	2.68

Note — The Temperature means are for the 10 years 1871—80, 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 Germany and also in the neighbourhood of Lisbon. Lowest, 29.5 ins. and less, over the western coast of Ireland and Scotland. The barometer is falling in our islands and the north of France, but rising elsewhere.
TEMPERATURE	Highest, 46° in London, 44° at Cambridge and Brussels, 73° at Nice and 72° at Lyons & Perpignan. Lowest, 53° at Bordeaux, 54° at Loughborough Head, 56° at Haparanda & Christiansund, and 57° at Skudesnäs and Helsingfors. During yesterday the thermometer rose to 80° at Loughborough Head, York and Loughborough, and to 84° at Cambridge.
WIND	S <sup>W</sup> in our islands, Scandinavia, Denmark and the Netherlands; moderate generally, but strong at Valencia. Moderate W <sup>W</sup> in the west of France; NW <sup>W</sup> at Lisbon; E <sup>W</sup> in South Germany.
WEATHER	Cloudy and unsettled in the west and north of our islands and also in Norway, with rain at Christiansund, Faerder and Hvalfödur and passing showers at Leith, Barrow-in-Furness & Pembroke. Fine in most other localities, but dull in the west of France. [During yesterday 0.7 in. of rain fell at Helsingfors & Rocher Point and 0.6 in. at Pembroke.]
SEA	Rough at Valencia and rather rough at Scilly, but moderate to smooth elsewhere.

## PROBABLE CHANGES IN SYSTEM NOW PREVALENT

A series of large depressions is apparently passing along in a northeasterly direction some distance to the W<sup>W</sup> of our islands and this morning there are indications of a shallow disturbance off the south of England.

The latter is likely to move northwards and unsettled stormy weather is therefore not improbable over our midland and southeastern counties.

## FORECASTS

For the 24 hours ending at NOON on 14<sup>th</sup> July 1887.

DISTRICTS.	FORECASTS.	DISTRICTS.	FORECASTS.
0 SCOTLAND NORTH	S <sup>W</sup> winds, moderate; cloudy, some showers.	6 SCOTLAND WEST	Same as N <sup>o</sup> 0 to 2.
1 SCOTLAND EAST	.....D.....D.....D.....	7 ENGLAND N. W.	Same as N <sup>o</sup> 0 to 2.
2 ENGLAND N. E.	.....D.....D.....D.....	8 ENGLAND S. W.	SW <sup>W</sup> winds, moderate or fresh; changeable, some showers.
3 ENGLAND EAST	Same as N <sup>o</sup> 5.	9 IRELAND NORTH	.....D.....D.....D.....
4 MIDLAND COUNTIES	Same as N <sup>o</sup> 5.	10 IRELAND SOUTH	.....D.....D.....D.....
5 ENGLAND SOUTH	S <sup>W</sup> to W <sup>W</sup> winds, light; cloudy, unsettled, thunderstorms locally.	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 ...	29.79	59	55	SSE 4	c	3	Holyhead ...	29.82	63	61	SSW 4	crisp	4
Sumburgh Head	29.67	57	54	2 0	b	1	Valencia ...	29.64	64	63	SSW 7	on	6
Stornoway ...	29.54	58	55	SW 1	h	1	Scilly ...	29.90	67	65	SSW 5	on	5
Aberdeen ...	29.66	65	61	S 3	c	1	Dungeness ...	30.03	62	61	WSW 4	o	4
Shields ...	29.78	73	67	WSW 4	c	2	London ...	29.98	75	65	WSW 3	b	*
Ardrossan ...	29.69	60	59	SSW 3	o	3	Yarmouth ...	29.94	67	65	SSE 6	b	4
Malin Head ...	29.57	63	63	SSW 4	o	3	Jersey ...	30.04	69	65	SE 2	b	2
Mullaghmore ...	29.66	67	61	S 7	og	5	Rochefort ...						
Belmullet ...	29.53	63	61	SSW 5	h	*							

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

The reports for yesterday morning showed that pressure then varied from between 30.0 in. and 30.1 in. over France and Germany to about 29.5 in. on the northwestern coasts of the British Islands and to about 29.7 in. over Northern Europe. SW<sup>ly</sup> and W<sup>ly</sup> winds were consequently chiefly prevalent and were accompanied by passing showers in many parts of France and the north of the British Islands, although over England the weather remained dry.

In some other parts of the Continent also (e.g. Finland, Eastern Germany and Southern Russia) showers were reported. Temperature had changed but little and ranged from between 77° and 85° over the Southern and western parts of the Mediterranean to a little below 60° over Northern Europe.

The highest individual values were 86° at Oporto, 83° at Cagliari, 81° at Palma, 79° at Sfax (Algeria) and Perpignan, 78° at Trieste, 77° at Legnano, 75° at Palermo and 70° at Belfort and Biarritz; the lowest were 51° at Sumburgh Head, 54° at Uleaborg, 55° at Stornoway, 56° at Knopio and Naparanda and 58° at Bodi and Hemisand.

During the day a depression off our northwestern coast passed slowly to the northeastward, but the barometer began to fall over the Bay of Biscay as though some new disturbances were advancing towards Brittany from the southwestward.

### 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 14<sup>th</sup> July

1887.

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 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 ...	29.91	57	N	0	b	29.99	+13	61	57	+5	S	4	bc	*	66	60	-	
Hernösand ...	29.87	59	S	2	b	29.96	+13	?	?	?	SEW	2	b	*	72	50	-	
Stockholm ...	30.04	63	SW	2	0	30.10	+11	71	66	+5	SSW	2	b	*	73	52	-	
Wisby ...	30.02	62	SW	4	bc	30.06	+10	63	61	0	S	2	b	*	73	54	-	
Bodö ...	29.77	58	N	2	bc	29.80	+02	62	58	+9	E	4	c	2	?	43	-	
Christiansund ...	29.71	60	ENE	2	r	29.60	-07	67	58	+11	ESE	4	0	1	62	?	0.12	
Skudesnaes ...	29.75	59	SSE	6	c	29.77	-02	59	57	+2	SSE	6	bc	4	59	57	0.43	
Christiania Fjord (Fjorder)	29.93	58	SSE	4	b	29.88	-01	62	60	+4	S	4	t	3	?	?	0.04	
Skagen (The Scaw)	29.93	65	N	0	b	29.86	-07	65	62	+5	S	3	c	2	75	59	-	
Fanö ...	29.85	71	SE	4	b	29.89	-06	65	63	0	SW	4	b	*	61	64	0.04	
Sumburgh Head	29.50	56	SE	1	r	29.49	-04	55	53	+1	N	0	c	2	63	50	0.03	
Stornoway ...	29.40	62	SW	3	b	29.51	+06	59	59	+2	SW	4	0	4	64	53	0.05	
Wick ...	29.44	62	S	1	bc	29.54	+03	61	57	-1	S	2	c	0	64	54	0.28	
Nairn ...	No observations taken					29.54	+02	60	57	-2	W	4	bc	4	73	55	0.05	
Aberdeen ...	29.54	64	S	2	b	29.65	+07	62	57	+2	SW	4	b	2	67	55	-	
Leith ...	29.54	61	S	3	c	29.70	+12	64	57	+1	W	5	bc	*	74	56	0.02	
Shields ...	29.60	69	SW	4	bc	29.80	+11	66	57	+2	SW	4	c	2	74	57	0.02	
Spurn Head ...	29.71	70	SW	4	bc	29.90	+10	66	62	-2	SW	4	bc	2	77	57	-	
York ...	29.67	69	SW	3	bc	29.87	+11	65	60	-1	W	3	b	*	79	55	-	
Loughborough	29.74	72	SW	4	bc	29.93	+14	65	61	-1	W	3	0	*	78	57	-	
ARDROSSAN	29.48	62	S	4	bc	29.74	+20	57	57	-2	SSW	5	0	4	63	?	0.01	
Malin Head ...	29.89	58	W	3	0	29.70	+20	57	56	-3	W	4	0	4	66	56	0.53	
Mullaghmore	29.53	61	W	4	b	29.82	+38	60	55	-3	W	5	bc	*	64	56	0.11	
Belinullet	29.50	64	SEW	4	c	29.82	+27	62	58	+2	W	5	b	3	68	54	0.20	
Donaghadee	29.64	64	SEW	7	b	29.84	+08	60	56	-1	W	5	bc	*	66	58	0.05	
Barrow-in-Furness	29.66	67	SW	7	b	29.88	+19	62	55	-5	W	2	c	3	72	58	0.09	
Liverpool (Bidston)	29.66	60	SEW	5	bc	29.88	+22	59	56	+1	SW	3	c	3	64	55	0.11	
Holyhead	29.62	65	SW	2	bc	29.89	+34	60	55	-2	SW	1	c	*	69	53	0.12	
Parsonstown	29.69	64	W	5	bc	29.94	+43	60	56	-2	W	3	0	3	67	55	0.19	
Valencia ...	29.68	64	SW	4	b	29.92	+23	60	58	0	SW	2	c	2	66	57	-	
Roche's Point...	29.75	62	SW	5	bc	29.94	+24	60	59	+2	W	2	c	3	64	57	-	
Pembroke ...	29.84	66	W	5	bc	29.96	+23	63	62	-1	W	4	0	5	70	60	-	
Scilly ...	29.87	61	SW	5	c	29.99	+17	60	59	0	SW	3	om	4	63	56	0.02	
Prawle Point ...	29.93	63	W	3	op	30.04	+18	62	60	-2	SW	3	om	3	73	58	0.06	
Jersey ...	29.87	63	W	3	op	30.04	+18	62	60	-2	SW	3	om	3	73	58	0.06	
Hurst Castle ...	29.87	63	W	5	cp	30.02	+19	62	61	-4	W	4	c	3	68	58	0.02	
Dungeness ...	29.86	64	W	4	c	30.02	+18	61	60	-4	W	4	b	3	71	58	-	
London ...	29.82	68	SW	4	c	30.00	+19	66	61	-10	S	2	0	*	82	58	-	
Oxford ...	29.82	67	SW	2	b	29.97	+16	63	59	0	SW	2	c	*	77	56	-	
Cambridge ...	29.82	68	SW	3	e	29.96	+12	66	61	-8	SEW	2	0	*	85	54	-	
Yarmouth ...	29.76	76	W	4	b	29.96	+11	66	62	+1	SW	3	bc	2	76	58	-	
Cuxhaven ...	29.97	72	SE	1	b	29.94	+07	71	68	+2	W	3	c	*	83	66	0.04	
Berlin ...	30.04	75	SE	2	b	30.05	-07	73	66	+6	SE	4	b	*	?	?	-	
Wiesbaden ...	*	*	*	*	*	30.09	+01	73	65	+3	W	1	b	*	84	64	0.20	
Munich ...	30.12	69	SW	2	0	30.16	+01	73	65	+4	W	3	bc	*	79	61	-	
THE HELDER	*	*	*	*	*	30.04	+11	69	64	-5	W	3	c	*	89	65	-	
Brussels ...	29.88	63	W	5	bc	30.00	+12	57	57	-16	W	5	b	4	82	55	-	
Cape Gris Nez...	29.90	63	W	3	bc	30.09	+16	65	64	-3	SW	3	b	*	92	61	-	
Paris ...	29.96	68	SW	5	0	30.01	+13	62	61	0	W	4	0	2	75	50	-	
Brest ...	29.97	64	W	5	c	30.10	+18	65	62	+1	W	3	0	5	72	63	-	
Lorient ...	30.08	72	W	5	b	30.14	+12	68	67	+2	W	3	0	2	79	63	-	
Rochefort ...	29.97	77	W	3	c	30.11	+09	72	64	0	ENE	1	b	*	92	64	-	
Belfort ...	30.01	75	W	0	b	30.02	-04	80	67	+7	E	1	b	5	84	64	-	
Lyons ...	30.02	75	NE	3	c	30.08	+06	75	71	+3	W	1	b	*	82	66	-	
Nice ...	30.05	73	W	1	0	30.10	+07	71	67	+1	E	4	b	2	93	66	-	
Perpignan ...	*	*	*	*	*	30.16	+03	70	67	+5	W	3	b	2	79	64	-	
Biarritz ...	30.13	69	W	5	b	30.16	+03	70	67	+5	W	3	b	2	79	64	-	
Corunna ...	*	*	*	*	*	30.16	+03	70	67	+5	W	3	b	2	79	64	-	
Lisbon ...	30.13	69	W	5	b	30.16	+03	70	67	+5	W	3	b	2	79	64	-	

For Explanation of Columns, see p. 4.



# WEATHER CHARTS

for 8 a.m. on Thursday, 14<sup>th</sup> July, 1887.

## BAROMETER, WIND & SEA.

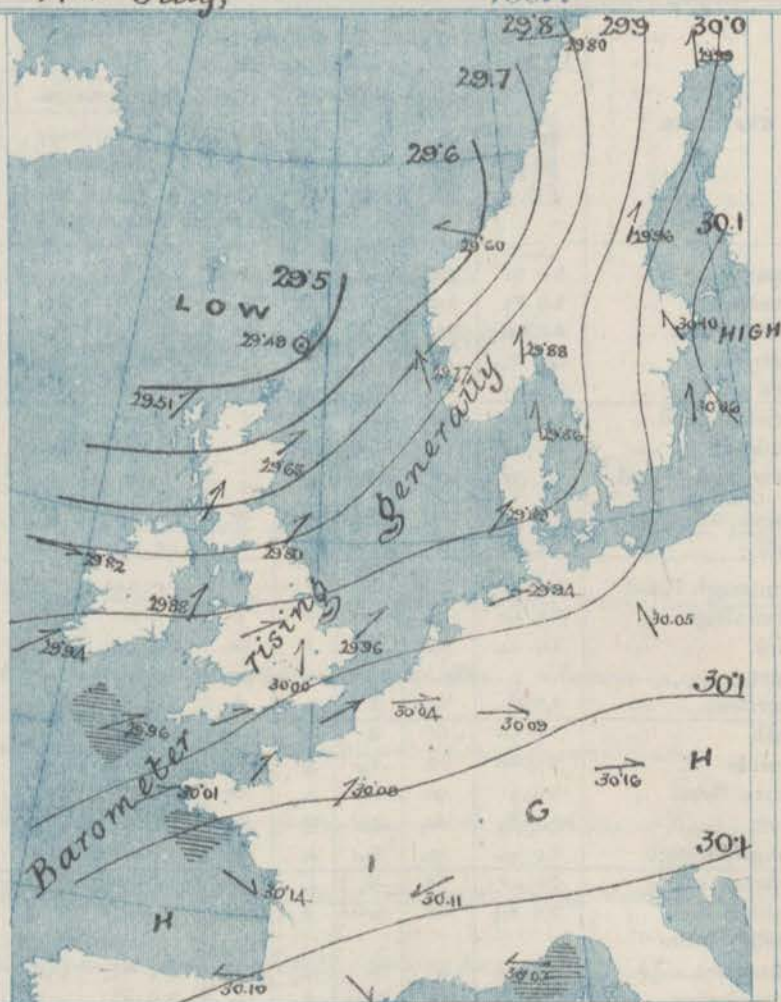
(Explanation of Map)

- 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 10 Years 1871—1880.

STATIONS.	MEAN READINGS.
Sumburgh Head	29.827
Stornoway	29.799
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Holyhead	29.914
Liverpool	29.910
Valencia	29.944
Roche's Point	29.940
Pembroke	29.942
Scilly	29.986
Hurst Castle	29.961
Dover	29.959
LONDON	29.955
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Cambridge	29.937
Yarmouth	29.934



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

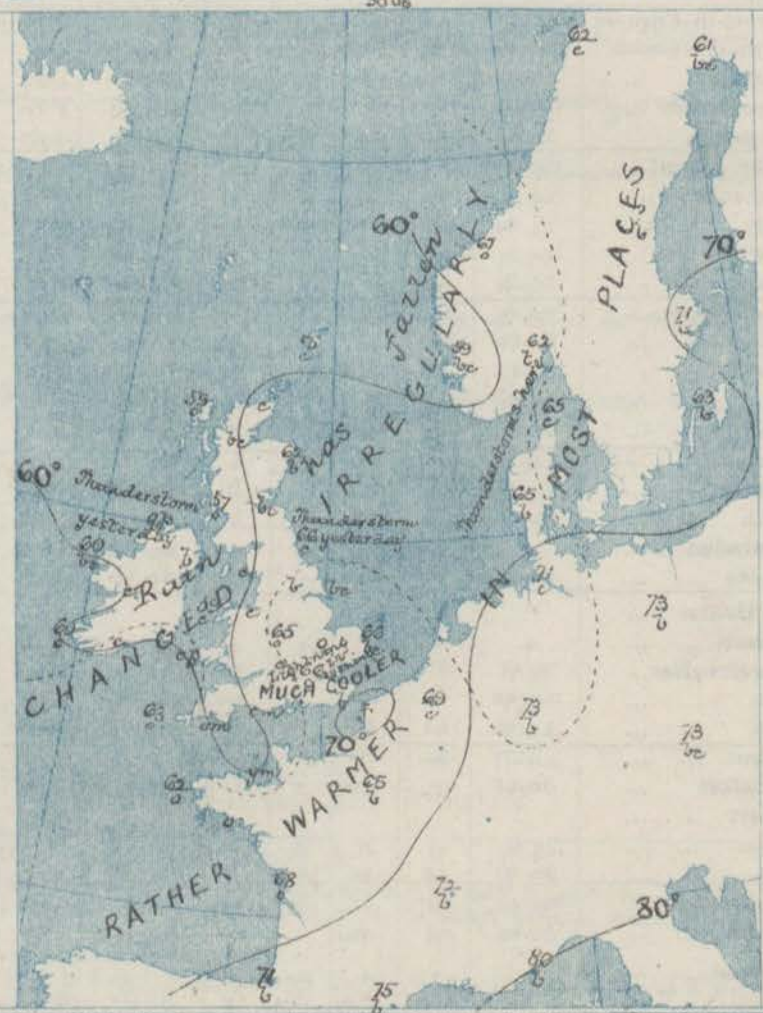
- Temperature** — Isotherms are drawn for each 10° changes since previous morning are stated in words.
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## MEANS OF TEMPERATURE IN SHADE. AND RAINFALL.

for the month of July.

STATIONS.	TEMPERATURE.				RAINFALL. (Inches)
	Daily Max.	Daily Min.	At 8 a.m.	At 8 a.m.	
			Dry.	Wet.	
Sumburgh Head	57.9	48.5	53.7	52.2	2.09
Stornoway	60.3	49.7	56.4	54.8	3.02
Wick	62.4	49.4	56.2	53.9	2.25
Nairn	65.0	51.6	57.4	53.7	2.57
Aberdeen	64.4	51.7	57.9	54.4	2.74
Leith	68.0	52.0	59.1	55.9	2.84
Shields	64.6	53.6	58.8	55.5	2.63
York	68.1	52.3	59.7	56.5	2.57
Ardrossan	64.0	53.8	57.8	54.8	2.91
Donaghadee	62.9	52.0	57.7	55.9	2.67
Holyhead	64.5	55.0	58.3	56.1	2.32
Liverpool	66.4	54.6	59.8	56.1	2.99
Valencia	64.5	53.9	59.0	56.2	3.91
Roche's Point	68.2	53.9	59.1	56.0	3.16
Pembroke	64.0	55.4	58.5	56.2	2.31
Scilly	65.0	56.9	60.3	58.2	2.29
Hurst Castle	67.9	56.4	61.7	59.2	2.15
Dover	67.4	57.5	63.0	59.2	1.82
LONDON	73.3	54.2	62.5	58.6	2.17
Oxford	69.9	53.7	60.4	57.1	2.51
Cambridge	72.5	52.8	61.3	58.0	2.30
Yarmouth	66.7	55.6	61.4	58.4	2.68

NOTE — The Temperature means are for the 10 years 1871—80, 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 in a long band extending from Portugal and the north of Spain to South Germany. Lowest, 29.5 ins and less in a depression lying off the north of Scotland.
TEMPERATURE	{ Highest, 80° at Nice, 75° at Perpignan, 73° at Berlin, Wiesbaden and Munich and 71° at Stockholm and Biarritz. Lowest, 55° at Lumburg Head, 57° at Ardrossan and Malin Head, and 59° at Skudesnaas, Stormoway and Holyhead. [During yesterday the thermometer rose to 79° at York, 82° in London and 85° at Cambridge.]
WIND	{ Moderate or fresh from SW or W over our islands, the Netherlands and the south of Denmark. SE or SE by E in Scandinavia, E in the south of France.
WEATHER	{ B dull at our south-western, southern and the western French stations. Fair or fine in most other localities, but thunder reported at Fœrder. [Thunderstorms occurred yesterday at Shields and Malin Head and lightning was seen in London.]
SEA	{ Rather rough at Lundy and Lorient, but moderate to smooth elsewhere.



## PROBABLE CHANGES IN SYSTEM NOW PREVALENT

The depression which lay off our western coast yesterday has travelled away to the northward of our islands, while the shallow disturbance which advanced over the south-east of England has apparently moved north-eastwards to the North Sea.  
The barometer is now rising generally and there is no sign of any important change in the weather.

## FORECASTS

for the 24 hours ending at NOON on 15<sup>th</sup> July 1887.

DISTRICTS.	FORECASTS.	DISTRICTS.	FORECASTS.
0 { SCOTLAND NORTH	SW <sup>ly</sup> winds, moderate, fair generally, but local showers.	6 { SCOTLAND WEST	Same as N° 0.
1 { SCOTLAND EAST	----- D° ----- D° -----	7 { ENGLAND N. W.	Same as N° 0.
2 { ENGLAND N. E.	----- D° ----- D° -----	8 { ENGLAND S. W.	Same as N° 5.
3 { ENGLAND EAST	----- D° ----- D° -----	9 { IRELAND NORTH	W <sup>ly</sup> and SW <sup>ly</sup> winds, fresh, fair to showery.
4 { MIDLAND COUNTIES	Same as N° 5.	10 { IRELAND SOUTH	----- D° ----- D° -----
5 { ENGLAND SOUTH	SW <sup>ly</sup> and W <sup>ly</sup> winds, moderate, 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.	Wes.	Sea.		Bar.	Dry.	Wet.	Wind.	Wes.	Sea.
Skudeanaes ...	29.82	59	57	S 8	1	5	Holyhead ...	29.65	64	61	SSW 5	bmg	5
Sumburgh Head ...	29.55	58	57	2 0	0	0	Valencia ...	29.61	65	62	WSW 6	bc	6
Stornoway ...	29.44	63	61	SW 4	0	4	Scilly ...	29.80	70	68	WSW 5	bc	5
Aberdeen ...	29.56	61	59	S 4	2	2	Dungeness ...	29.84	68	64	WSW 5	b	4
Shields ...	29.62	71	68	SW 3	op	2	London ...	29.81	75	65	SW 3	c	3
Ardrossan ...	29.43	63	61	S 4	6	3	Yarmouth ...	29.75	69	66	SSW 5	b	3
Malin Head ...	29.41	65	62	SSW 3	0	1	Jersey ...	29.90	67	63	WSW 3	0	3
Mullaghmore ...							Rochefort ...	30.08	77	69	W 4	0	2
Belmullet ...	29.41	60	59	WSW 2	0	0							

## 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 Germany and from 29.9 ins. and upwards over the whole of western, Central, and part of Northern Europe to about 29.5 ins. off our northwestern coasts. The gradients were consequently inappreciable except over the British <sup>Islands</sup> where they were moderate for SW winds, but a shallow local "hemicyclone" lay over the north of France. SW and S winds were consequently prevalent - the latter blowing briskly in London, with very high temperature locally, and a somewhat unsettled appearance.

The sky was clear in France and Germany, cloudy in our islands, with showers in some places. Temperature varied from between 77° and 86° on the shores of the Mediterranean to about 55° over the northern parts of Scandinavia, but was locally very high in London. The highest individual readings were 86° at Biskra (Algeria), 84° at Hermanstadt and Cagliari, 81° at Trieste and Palma, 80° at Bruckna, 79° at Brindisi, 76° at Palermo, Malta, Lwonne and in London. [In London the reading had increased to 82° by 10 am.] The lowest were 53° at Bodø, 54° at Sumburgh Head, 56° at Ulleborg, Haparanda and Christiansund, 57° at Skudeanaes and 58° at Holyhead.

Later in the day the shallow disturbance over France moved northeastwards and the wind in London veered, with a fall of temperature. Sheet lightning and some thunder occurred in the southeast at evening, but there was no rainfall sufficient to be measured.

### 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 15<sup>th</sup> July

1887.

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

Issued by the Meteorological Office, 16, Victoria Street, London, W. 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.	Sun. (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 ..	29.86	62	S	2	b	30.04	+0.05	63	60	+2	S	2	bc	*	70	52	-	
Hernösand ...	29.98	64	Z	0	c	29.99	+0.03	61	58	0	Z	0	bc	*	66	50	-	
Stockholm ...	30.08	63	SE	2	bc	30.09	-0.01	72	66	+1	S	2	b	*	79	57	-	
Wisby ...	30.01	63	SE	4	b	30.03	-0.03	70	63	+7	SE	4	b	*	79	54	-	
Bodö ...	29.76	62	Z	0	r	29.94	+1.4	63	58	+1	SE	2	c	1	75	54	0.28	
Christiansund...	29.80	62	W	1	b	29.89	+1.29	63	58	-4	W	2	b	1	72	52	-	
Skudesnaes ...	29.95	58	SE	4	c	30.00	+1.23	57	56	-2	S	6	0	4	61	57	-	
Christiania Fjord (Furder)	29.93	62	S	4	bc	29.98	+1.0	62	59	0	SEW	4	b	2	63	59	-	
Skagen (The Scaw)	29.99	59	Z	0	bc	30.03	+1.7	61	59	-4	W	1	c	0	73	57	0.12	
Fanö ...	30.02	61	W	1	c	30.09	+1.20	61	59	-4	W	2	c	*	72	59	-	
BRITISH ISLANDS.																		
Sumburgh Head	29.70	58	SSW	2	bc	29.83	+1.36	54	53	-1	W	2	0	2	62	51	0.01	
Stornoway ...	29.70	60	SW	5	c	29.90	+1.39	55	54	-4	Z	0	0	0	62	51	0.03	
Wick ...	29.75	62	W	2	bc	29.92	+1.38	60	57	-1	W	1	c	0	72	52	-	
Nairn ...	29.78	61	W	3	bc	29.93	+1.39	62	56	+2	W	1	c	2	67	51	0.04	
Aberdeen...	29.80	68	W	3	bc	29.96	+1.31	63	56	+1	SW	1	c	1	74	49	-	
Leith ...	29.88	66	W	3	bc	30.01	+1.31	63	56	-1	W	2	c	*	70	51	-	
Shields ...	29.91	70	W	3	bc	30.04	+1.24	61	57	-5	SW	1	m	2	71	57	-	
Spurn Head ...	29.98	65	SEW	2	bc	30.09	+1.9	64	62	-2	W	2	b	2	72	57	-	
York ...	29.95	68	W	3	b	30.09	+1.22	61	57	-4	SEW	1	b	*	73	50	-	
Loughborough	29.99	67	SW	2	0	30.11	+1.18	64	59	-1	W	2	b	*	71	53	-	
GERMANY.																		
Androssau ...	29.90	59	SW	3	0	30.03	+1.29	58	56	+1	SEW	3	c	2	63	54	-	
Malin Head ...	29.87	53	W	3	0	30.00	+1.30	56	55	-1	W	3	0	3	63	54	0.05	
Mullaghmore ...	29.94	60	W	5	c	30.08	-	58	55	-	W	4	c	2	64	51	-	
Belmullet ...	29.94	61	W	3	b	30.09	+1.27	57	55	-3	W	2	r	*	63	54	0.43	
Donaghadee ...	29.93	67	W	2	c	30.07	+1.25	58	54	-4	W	3	b	1	72	57	0.01	
FRANCE & NETHERLANDS.																		
Barrow-in-Furness	29.96	63	SW	3	b	30.05	+1.21	59	58	-1	W	2	p	*	64	57	0.03	
Liverpool (Bidston)	29.98	67	W	3	b	30.09	+1.21	59	57	-3	SW	1	op	2	68	56	0.01	
Holyhead ...	29.99	60	SW	3	bc	30.09	+1.21	59	56	0	W	1	c	2	65	56	-	
Parsonstown ...	29.99	62	SW	2	0	30.12	+1.23	59	55	-1	SW	1	c	*	66	50	-	
Valencia ...	30.01	62	SE	2	c	30.13	+1.19	62	59	+2	SE	1	0	1	65	53	0.11	
PENINSULA.																		
Roche's Point...	30.04	63	SW	3	bc	30.12	+1.20	61	59	+1	Z	0	b	0	65	53	-	
Pembroke ...	30.05	61	W	2	bc	30.10	+1.16	61	58	+1	SW	2	bc	2	63	57	-	
Seilly ...	30.07	67	W	2	bc	30.10	+1.14	67	62	+4	W	2	c	4	68	58	0.02	
Prawle Point ...	30.08	62	W	3	b	30.17	+1.18	61	60	+1	S	2	W	2	67	56	-	
Jersey ...	30.14	67	W	3	b	30.17	+1.13	63	60	+1	SW	1	ogm	1	70	55	-	
AFRICA.																		
Hurst Castle ...	30.07	64	W	4	b	30.16	+1.14	64	61	+2	W	2	bc	2	67	55	-	
Dungeness ...	30.06	62	W	4	c	30.13	+1.11	60	59	-1	W	3	0	3	66	57	-	
London ...	30.04	70	SW	2	b	30.14	+1.14	63	59	-3	SW	1	0	*	75	56	0.03	
Oxford ...	30.05	65	SW	2	bc	30.13	+1.16	60	57	-3	SW	1	c	*	71	53	-	
Cambridge ...	30.03	74	SW	2	6c	30.04	+0.98	64	57	-2	SW	1	0	*	76	53	0.02	
ASIA.																		
Yarmouth ...	30.00	71	SW	3	bc	30.10	+1.14	63	59	-3	W	2	bc	2	76	56	-	
Cuxhaven ...	30.06	62	W	2	bc	30.12	+1.18	60	64	-2	W	2	b	*	74	57	0.08	
Berlin ...	30.03	79	W	2	c	30.08	+1.03	73	66	0	W	2	b	*	91	68	0.04	
Wiesbaden ...	*	*	*	*	*	30.19	+1.10	70	65	-3	N	1	b	*	86	66	-	
Munich ...	30.18	65	SW	2	0	30.23	+1.07	69	65	-4	SW	1	b	*	81	61	0.04	
AUSTRALIA.																		
The Helder ...	30.05	65	SW	1	c	30.08	-	64	62	-	SW	1	c	1	72	59	-	
Brussels ...	*	*	*	*	*	30.17	+1.13	64	58	-5	SW	3	c	*	76	58	-	
Cape Gris Nez...	30.08	62	SW	5	b	30.14	+1.14	57	57	0	W	4	0	3	86	55	-	
Paris ...	30.13	75	W	1	bc	30.19	+1.10	64	60	-1	SW	1	bc	*	79	53	-	
Brest ...	30.17	68	W	3	bc	30.16	+1.15	63	62	+1	S	3	0	5	75	50	-	
AMERICA.																		
Lorient ...	30.16	65	W	4	b	30.19	+1.09	61	59	-4	SE	3	0	2	72	59	-	
Rochefort ...	30.21	70	W	4	c	30.22	+0.8	66	64	-2	N	4	c	2	75	59	-	
Belfort ...	30.11	85	W	1	b	30.17	-	73	67	-	W	4	b	*	94	58	-	
Lyons ...	*	*	*	*	*	30.07	+0.05	77	66	-3	E	1	b	1	86	68	-	
Nice ...	30.01	74	Z	0	0	30.07	+0.05	77	66	-3	E	1	b	1	86	68	-	
Perpignan ...	30.04	76	W	1	c	30.12	+0.04	79	70	+4	SW	1	b	*	88	70	-	
Biarritz ...	30.19	73	N	4	c	30.16	+0.06	72	68	+1	N	1	b	0	77	68	-	
Corunna ...	*	*	*	*	*	30.16	-	68	60	-2	W	7	b	2	82	63	-	
Lisbon ...	30.12	72	N	7	b	30.16	-0.0	68	60	-2	W	7	b	2	82	63	-	

For Explanation of Columns, see p. 4. † Received too late for insertion in Charts.



# WEATHER CHARTS

for 8 a.m. on Friday, 15<sup>th</sup> July, 1887.

## 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.

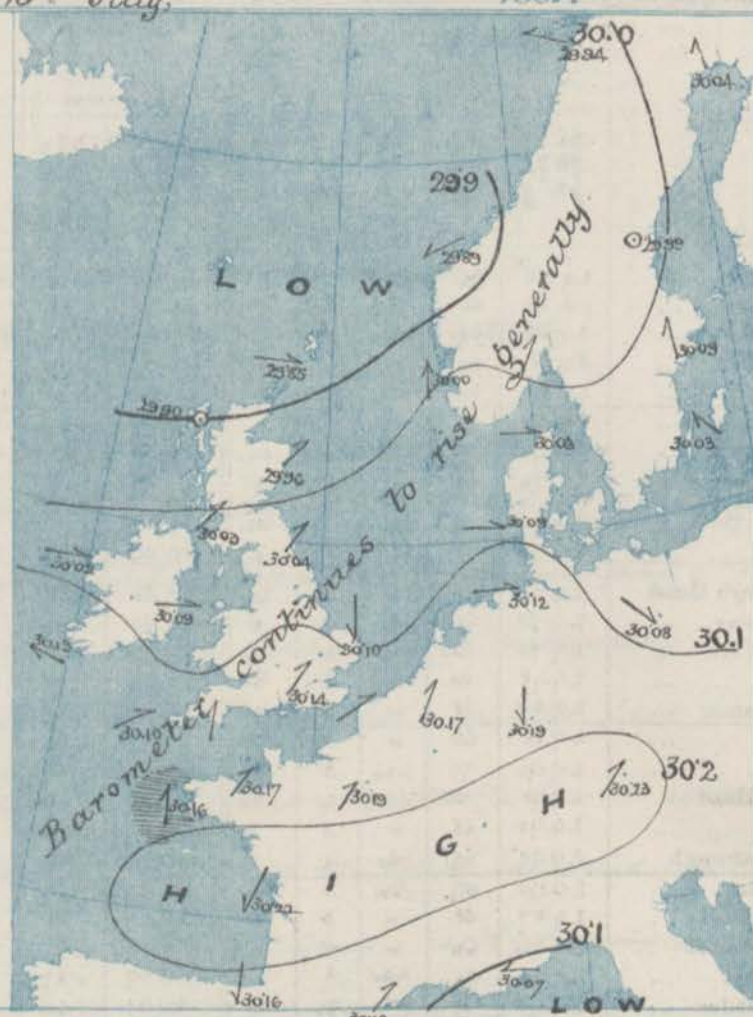
**Sea Disturbance** — where considerable is shown thus

■ = Rough. ■ = High.

## MEAN HEIGHT of the BAROMETER

at 8 a.m. for the month of July.  
During the 10 Years 1871—1880.

STATIONS.	MEAN READINGS.
	in.
Sumburgh Head	29.827
Stornoway	29.799
Wick	29.813
Nairn	29.824
Aberdeen	29.829
Leith	29.848
Shields	29.873
York	29.902
Ardrossan	29.864
Donaghadee	29.878
Holyhead	29.914
Liverpool	29.910
Valencia	29.944
Roche's Point	29.940
Pembroke	29.942
Scilly	29.986
Hurst Castle	29.961
Dover	29.959
LONDON	29.955
Oxford	29.941
Cambridge	29.937
Yarmouth	29.934



## 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	
Sunburgh Head	57.9	48.5	58.7	52.2	2.09
Stornoway	60.3	49.7	56.4	54.3	3.02
Wick	62.4	49.4	56.2	53.9	2.25
Nairn	65.0	51.6	57.4	53.7	2.57
Aberdeen	64.4	51.7	57.9	54.4	2.74
Leith	65.0	52.0	59.1	55.9	2.84
Shields	64.6	53.6	58.8	55.5	2.63
York	68.1	52.3	59.7	56.5	2.57
Ardrossan	64.0	53.8	57.8	54.8	2.91
Donaghadee	62.9	52.0	57.7	55.9	2.67
Holyhead	64.5	55.0	58.3	56.1	2.32
Liverpool	66.4	54.6	59.8	56.1	2.99
Valencia	64.5	53.9	59.0	56.2	3.91
Roche's Point	68.2	53.9	59.1	56.0	3.16
Pembroke	64.0	55.4	58.5	56.2	2.31
Scilly	65.0	56.9	60.3	58.2	2.29
Hurst Castle	67.9	56.4	61.7	59.2	2.15
Dover	67.4	57.5	63.0	59.2	1.32
LONDON	73.3	54.2	62.5	58.6	2.17
Oxford	69.9	53.7	60.4	57.1	2.51
Cambridge	72.5	52.8	61.3	58.0	2.30
Yarmouth	66.7	55.5	61.4	58.4	2.68

NOTE — The Temperature means are for the 10 years 1871—80, 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 in an anticyclonic band extending from South Germany to the Bay of Biscay. Lowest, 29.9 ins. and less in a large area lying to the northward of our islands.
TEMPERATURE	Highest, 79° at Perpignan, 77° at Nice, 73° at Berlin, and 72° at Stockholm and Biarritz. Lowest, 54° at Lumburgh Head, 55° at Hornøysund & Malin Head, 57° at Skudesnæs & Berlin & 58° at Ardrossan, Mullaghmore and <sup>Dungannon</sup> . The highest maxima registered over our islands yesterday were 76° at Cambridge & Yarmouth and 75° in London.
WIND	Slight from SW. or W. over our islands, Denmark and the north of France. Moderate to strong from S. in Norway; variable in the south of France.
WEATHER	Fair or fine generally, but showery in the north of Ireland and northwest of England. [Local showers were experienced over the United Kingdom yesterday, with thunder in the east of England].
SEA	Moderate at Scilly, but slight or smooth elsewhere.

## PROBABLE CHANGES IN SYSTEM NOW PREVALENT



The barometer continues to rise generally, but a shallow depression is lying over Wales, and the shift of wind to ESE. at Valencia seems to show that another disturbance is advancing towards our southwest coasts.

Showers are therefore likely in most districts.

## FORECASTS

For the 24 hours ending at NOON on 16<sup>TH</sup> JULY 1887.

DISTRICTS.	FORECASTS.	DISTRICTS.	FORECASTS.
0 SCOTLAND NORTH	SW <sup>ly</sup> and N <sup>ly</sup> winds, light; fair generally, but local showers.	6 SCOTLAND WEST	Same as N <sup>os</sup> 0 to 2.
1 SCOTLAND EAST	-----D-----D-----D-----	7 ENGLAND N. W.	Same as N <sup>os</sup> 0 to 2.
2 ENGLAND N. E.	-----D-----D-----D-----	8 ENGLAND S. W.	SW <sup>ly</sup> winds, moderate; fair to showery.
3 ENGLAND EAST	Same as N <sup>o</sup> 5.	9 IRELAND NORTH	Same as N <sup>os</sup> 0 to 2.
4 MIDLAND COUNTIES	Same as N <sup>o</sup> 5.	10 IRELAND SOUTH	Light variable breezes; fair to dull and some rain.
5 ENGLAND SOUTH	SW <sup>ly</sup> winds, light, fair generally, but perhaps local showers.	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 ...	29.89	61	57	S 6	bc f	4	Holyhead ...	29.96	62	56	SW 3	b	3
Sumburgh Head	29.64	57	55	W 1	c	2	Valencia ...	30.00	62	59	W 3	0	3
Stornoway ...	29.65	61	58	SW 5	o q	5	Scilly ...	30.05	68	63	W 3	c	5
Aberdeen ...	29.73	70	61	SW 4	c	2	Dungeness ...	30.06	63	61	W 4	c	3
Shields ...	29.87	70	57	SW 3	c	2	London ...	30.02	70	63	SW 3	0	*
Ardrossan ...	29.86	63	58	SW 4	0	3	Yarmouth ...	29.99	72	62	SW 3	c	3
Malin Head ...	29.83	62	60	W 3	0	3	Jersey ...	30.12	69	61	W 3	b	3
Mullaghmore ...	29.89	63	56	W 6	c y	5	Rochefort ...	30.21	71	68	W 4	0	2
Belmullet ...	29.91	61	55	W 4	bc	*							

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

*Continental Reports not yet received.*

### 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 16<sup>th</sup> July

1887.

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

Issued by the Meteorological Office, 16, Victoria Street, London, W. 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.		Difference from 8 a.m. yesterday.	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.		Dirac.	Force. (0 to 12.)			Max.	Min.		
SCANDINAVIA.	Haparanda ...	30.01	64	2	o	bc	30.01	-.03	64	61	+1	S	2	c	*	73	57	—
	Hernösand ...	29.98	61	4	4	bc	30.03	+.04	61	59	0	NE	2	o	*	73	57	0.02
	Stockholm ...	30.05	65	2	0	bc	30.06	-.03	70	64	-2	Z	0	bc	*	81	57	—
	Wishby ...	29.96	77	WSW	2	bc	30.01	-.02	63	61	-7	NE	2	bc	*	79	55	—
	Bodö ...	29.91	59	W	2	bc	30.02	+.08	60	58	-3	E	2	bc	1	66	52	0.75
	Christiansund...	29.97	53	NW	2	o	30.09	+.20	57	54	-6	W	2	c	2	5	50	0.16
	Skudesnaes ...	30.06	58	SW	2	o	30.11	+.11	55	54	-2	SSW	1	o	3	63	53	—
	Christiania Fjord (Færd)	30.01	61	S	4	bc	30.01	+.03	58	57	-4	Z	0	f	2	64	55	—
	Skagen (The Scaw)	30.04	57	WNW	1	c	30.04	+.01	62	59	-1	W	1	bc	0	66	52	—
	Fanö ...	30.08	59	WSW	1	c	30.06	-.03	62	59	-1	N	4	c	*	66	57	—
BRITISH ISLANDS.	Sumburgh Head	29.93	56	W	3	bc	30.05	+.20	51	51	-3	NW	2	o	2	58	49	0.01
	Stornoway ...	30.05	56	W	2	cp	30.12	+.32	56	54	+1	Z	0	c	0	60	47	—
	Wick ...	30.03	56	NW	1	c	30.20	+.28	55	51	-5	NW	3	bc	0	62	48	0.24
	Nairn ...	30.05	64	W	2	bc	30.23	+.30	56	51	-6	W	1	c	1	66	50	0.06
	Aberdeen...	30.04	49	SW	1	c	30.20	+.24	59	53	-4	NW	3	bc	1	68	49	0.18
	Leith ...	30.04	64	W	3	c	30.23	+.22	61	54	-2	NW	1	bc	*	71	50	0.02
	Shields ...	30.05	61	SE	2	bc	30.22	+.18	59	56	-2	NE	3	c	2	63	50	0.20
	Spurn Head ...	30.06	66	SE	3	bc	30.17	+.08	60	57	-4	N	4	bc	1	70	57	0.07
	York ...	30.08	67	W	1	c	30.19	+.10	61	57	0	NW	2	bc	*	72	50	0.08
	Loughborough	30.09	68	WNW	2	c	30.20	+.09	65	59	+1	NW	2	bc	*	76	51	—
GERMANY.	Ardrossan ...	30.08	63	NW	3	bc	30.25	+.22	61	56	+3	WNW	3	bc	2	65	50	—
	Malin Head ...	30.11	60	NW	3	o	30.27	+.27	59	55	+3	NW	1	o	0	63	54	0.04
	Mullaghmore ...	30.15	62	NW	4	bc	30.30	+.25	61	57	+3	NW	2	c	1	64	52	—
	Belmullet ...	30.18	62	N	2	bc	30.34	+.25	56	54	-1	S	2	o	*	63	49	0.08
	Donaghadee ...	30.12	58	SSW	2	bc	30.30	+.23	59	56	+1	N	3	bc	1	67	51	0.07
	Barrow-in-Furness	30.09	63	W	2	bc	30.20	+.15	58	55	-1	NW	3	bc	*	65	55	—
	Liverpool (Bidston)	30.11	64	WNW	2	bc	30.24	+.15	61	54	+2	WNW	3	bc	4	68	56	0.03
	Holyhead ...	30.13	62	WNW	1	bc	30.28	+.19	60	56	+1	N	2	bc	1	64	52	—
	Parsonstown ...	30.16	64	NW	2	c	30.34	+.22	57	55	-2	Z	0	bc	*	69	65	—
	Valencia ...	30.21	63	NW	3	bc	30.35	+.22	63	58	+1	Z	0	bc	2	67	49	0.02
FRANCE & NETHERLANDS.	Roche's Point...	30.16	63	WNW	1	bc	30.32	+.20	60	58	-1	N	2	bc	2	64	53	0.05
	Pembroke ...	30.14	60	WNW	2	bc	30.27	+.17	62	59	+1	NNE	2	bc	2	64	55	—
	Scilly ...	30.15	66	NW	3	bc	30.27	+.17	64	61	-3	WNW	1	c	2	69	59	—
	Prawle Point ...	30.13	63	W	3	bc	30.25	+.08	69	59	+8	NNW	2	bc	2	70	56	0.01
	Jersey ...	30.15	65	WNW	1	og	30.22	+.05	63	59	0	NNW	3	bc	3	68	46	—
	Hurst Castle ...	30.12	64	W	4	c	30.22	+.06	65	59	-1	N	3	bc	2	68	55	—
	Dungeness ...	30.10	61	W	3	c	30.16	+.03	65	61	+5	NW	1	bc	1	65	55	—
	London ...	30.11	60	SE	1	bc	30.18	+.04	61	56	-2	W	2	bc	*	76	55	0.42
	Oxford ...	30.13	60	NW	1	bc	30.21	+.08	61	56	+1	NNW	1	bc	*	75	51	0.06
	Cambridge ...	30.07	66	WSW	1	o	30.17	+.13	64	57	0	NW	1	bc	*	77	54	—
PENINSULA.	Yarmouth ...	30.10	64	E	3	bc	30.16	+.06	62	60	-1	NNE	3	c	3	67	57	—
	Cuxhaven ...	30.15	63	NNE	1	o	30.25	-.07	65	63	-4	NE	4	o	*	70	63	—
	Berlin ...	30.08	75	NNW	3	c	29.97	-.11	70	63	-3	NE	2	o	*	82	68	—
	Wiesbaden ...	*	*	*	*	*	30.01	-.18	66	62	-4	N	1	o	*	82	61	0.28
	Munich ...	30.14	68	NE	3	bc	30.10	-.13	71	65	+2	SW	3	bc	*	82	61	0.04
	The Helder ...	30.10	63	WNW	1	c	30.08	-.00	61	58	-3	N	3	c	3	68	61	—
	Brussels ...	*	*	*	*	*	30.13	-.04	60	58	-4	WSW	3	o	*	76	58	0.43
	Cape Gris Nez...	30.12	59	SW	1	bc	30.13	-.01	60	59	+3	NW	4	o	2	64	55	0.08
	Paris ...	30.12	69	N	3	bc	30.20	+.01	61	56	-3	NW	3	bc	*	81	55	0.20
	Brest ...	30.20	62	W	3	o	30.31	+.15	60	58	-3	N	1	c	2	75	50	0.04

For Explanation of Columns, see p. 4.



# WEATHER CHARTS

for 8 a.m. on Saturday, 16<sup>th</sup> July, 1887.

## 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 10 Years 1871—1880.

STATIONS.	MEAN READINGS.
	IN.
Sumburgh Head	29.827
Stornoway	29.799
Wick	29.818
Nairn	29.824
Aberdeen	29.828
Leith	29.848
Shields	29.878
York	29.902
Ardrossan	29.864
Donaghadee	29.878
Holyhead	29.914
Liverpool	29.910
Valencia	29.944
Roche's Point	29.940
Pembroke	29.942
Sailly	29.986
Hurst Castle	29.961
Dover	29.959
LONDON	29.965
Oxford	29.941
Cambridge	29.937
Yarmouth	29.934



## 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.

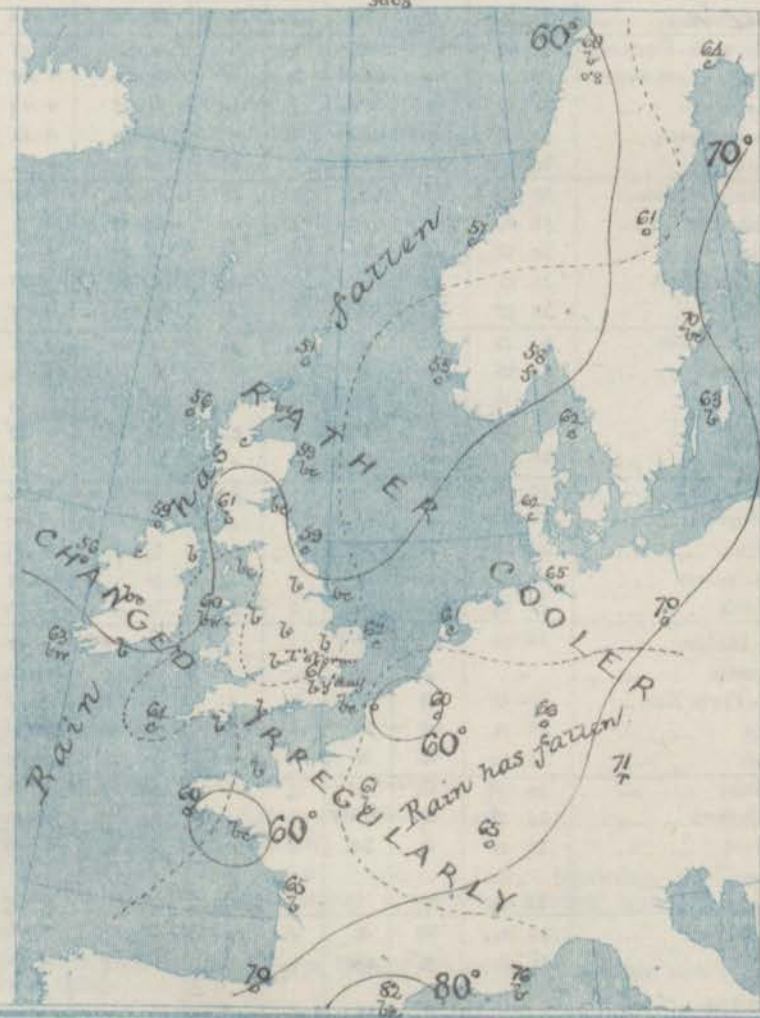
**Rainfall** A dotted line separates the districts in which rain has fallen from those where there has been none. Falls of 0.5 in. or more, are quoted in figures.

## 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	57.9	48.5	53.7	52.2	2.09
Stornoway	60.3	49.7	56.4	54.3	3.02
Wick	62.4	49.4	56.2	53.9	2.25
Nairn	65.0	51.6	57.4	53.7	2.57
Aberdeen	64.4	51.7	57.9	54.4	2.74
Leith	68.0	52.0	59.1	55.9	2.84
Shields	64.6	53.6	58.8	55.5	2.63
York	68.1	52.3	59.7	56.5	2.57
Ardrossan	64.0	53.8	57.8	54.8	2.91
Donaghadee	62.9	52.0	57.7	55.9	2.07
Holyhead	64.5	55.0	59.3	56.1	2.32
Liverpool	66.4	54.6	59.8	56.1	2.99
Valencia	64.5	53.9	59.0	56.2	3.91
Roche's Point	66.2	53.9	59.1	56.0	3.16
Pembroke	64.0	55.4	58.5	56.2	2.81
Scilly	65.0	56.9	60.3	58.2	2.29
Hurst Castle	67.9	56.4	61.7	59.2	2.15
Dover	67.4	57.5	63.0	59.2	1.82
LONDON	73.3	54.2	62.5	58.6	2.17
Oxford	68.9	53.7	60.4	57.1	2.51
Cambridge	72.5	62.8	61.3	58.0	2.30
Yarmouth	66.7	55.5	61.4	58.4	2.68

Note — The Temperature means are for the 10 years 1871—80, the Rainfall means are mainly those for the 10 years 1866—85.





# GENERAL SITUATION AT 8 A.M.

PRESSURE	{ Highest, 30.3 ins. and upwards, in an anticyclone lying over our west and southwest coasts. Lowest, 29.9 ins. and less, in a depression the centre of which lies over North Germany.
TEMPERATURE	{ Highest, 82° at Lerpignaw, 76° at Nice, 71° at Munich, 70° at Berlin and Biarritz and 60° at Stawle Point. Lowest, 51° at Lumburgh Head, 55° at Skudesnaes and Abo and 56° at Larnacway, Nauru and Behuallat.
WIND	{ Light from the NW <sup>th</sup> over the greater part of our islands as well as in the north of France. Moderate from NE. in the west of France; light from SW. in South Germany. Variable in Scandinavia and the south of France.
WEATHER :	{ Fine generally, but dull over Germany and the Netherlands, with rain at Munich. Showers fell yesterday over the United Kingdom & a thunderstorm with heavy rain was experienced in London
SEA	{ Smooth generally.

## PROBABLE CHANGES IN SYSTEM NOW PREVALENT

The anticyclone in the west will probably spread eastward, and fine weather is therefore likely to continue for a time in most districts.

Over the east of England, however, there are some local irregularities in pressure and these may possibly occasion slight showers in places.

## FORECASTS

For the 24 hours ending at NOON on 17<sup>th</sup> JULY 1887.

DISTRICTS.	FORECASTS.	DISTRICTS.	FORECASTS.
0 { SCOTLAND NORTH	NW <sup>th</sup> winds, light; fair generally.	6 { SCOTLAND WEST	Same as N <sup>o</sup> 0 and 1.
1 { SCOTLAND EAST	.....D.....D.....D.....	7 { ENGLAND N. W.	Same as N <sup>o</sup> 0 and 1.
2 { ENGLAND N. E.	Same as N <sup>o</sup> 5.	8 { ENGLAND S. W.	N <sup>th</sup> winds, light; fine generally.
3 { ENGLAND EAST	Same as N <sup>o</sup> 5.	9 { IRELAND NORTH	Same as N <sup>o</sup> 0 and 1.
4 { MIDLAND COUNTIES	Same as N <sup>o</sup> 5.	10 { IRELAND SOUTH	Same as N <sup>o</sup> 8.
5 { ENGLAND SOUTH	N <sup>th</sup> winds, light; fine generally, but local showers at first.	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 ...	30.05	63	58	S 2	c	3	Holyhead ...	30.12	62	59	NNW 1	b	1
Sumburgh Head ...	29.90	58	54	W 3	b	2	Valencia ...	30.17	66	60	WNN 3	cv	3
Stornoway ...	29.99	59	57	W 2	c	1	Scilly ...	30.13	68	62	W 3	bz	4
Aberdeen ...	29.98	66	59	SSW 2	c	1	Dungeness ...	30.15	60	59	WSW 4	f	2
Shields ...	30.06	58	57	E 1	c	2	London ...	30.10	73	61	WSW 3	c	*
Ardrossan ...	30.06	65	60	WNW 3	c	2	Yarmouth ...	30.14	66	59	ESE 2	bz	2
Malin Head ...	30.06	61	57	WNW 3	c	3	Jersey ...	30.17	67	63	SE 2	c	2
Mullaghmore ...	30.12	63	59	WNW 4	cv	2	Rocheport ...	30.21	73	67	NW 5	c	2
Belmullet ...	30.15	62	56	NNW 1	bz	*							

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

The continental reports for yesterday morning showed that pressure was highest, 30.2 in. and upwards, in a large band which extended from the Bay of Biscay to South Germany, and relatively low, 29.9 in. & less, in two large areas lying respectively over Central Russia and to the northward of the British Islands. A small shallow depression was lying over Wales. The wind was light in force generally, - from S.W. to W. in our islands, Denmark and the north of France, and from N.W. in Italy, but from varying directions elsewhere. The weather was fine generally, but rain was falling at Copenhagen and passing showers in the north of Ireland & the northwest of England. Temperature had risen somewhat in Russia, Italy, the south of France and the extreme southwest of our islands, but fallen in most other localities; readings ranged from between 75 and 85 over Southern Europe, the Mediterranean & Algeria to 60 or less in the northwest & north of the United Kingdom as well as over Eastern Russia. The highest individual readings were 88° at Cagliari, 85° at Barcelona, 84° at Cetta & Biatra, 83° at Cape Boem & 82° at La Calle, the lowest were 54° at Sumburgh Head, 55° at Stornoway & Malin Head, 57° at Skudesnaes & Berlin and 58° at Ardrossan, Mullaghmore & <sup>Donaghadee</sup>.

In the course of the day the shallow depression over Wales moved E<sup>th</sup> while other small disturbances appeared over the south of England. Showers were therefore experienced over the greater part of the United Kingdom & in London, where a thunderstorm occurred; heavy rain fell between 4 and 6 p.m. At Bristol the amount measured was 0.4 in.

### REMARKS for the 24 hours ending JULY 15<sup>th</sup>.

The continental reports for Thursday morning showed that while areas of high pressure (30.1 in. & upwards) were lying respectively over France & the southern part of the Bay of Biscay & over the Belkiz provinces a large depression with readings below 29.5 in. was passing away to the northward of our islands. Moderate breezes from between S. & W. prevailed at the more northern stations, but over Central Europe the wind was chiefly N.E., while in the south it was very light and variable. Fine weather was reported over the greater part of the Continent, but in the southwest & south of our islands and also in the west of France the sky was very cloudy. Temperature had changed irregularly in Spain & the west and north of our islands and fallen somewhat over the Netherlands & southeast of England, but elsewhere a slight rise was shown; readings ranged from between 75° & 85° at the Italian, Mediterranean & Algerian stations to 60° or less in the west & north of the British Islands as well as in some parts of Northern Russia. The highest individual readings were 86° at Biatra & Cagliari, 84° at Barcelona, 82° at Trieste & 80° at Nice, Nemours & Brindisi; the lowest were 55° at Haugø and Sumburgh Head, 57° at Ardrossan & Malin Head & 58° at Helmsfors & Kharkov.

In the course of the day the depression to the northward of our islands gradually dispersed and the barometer rose generally. Slight local showers were experienced over various parts of the United Kingdom, with thunderstorms in a few 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

Sunday 17<sup>th</sup> July

1887.

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 ...	30.00	63	S	2	c	30.04	+ .03	70	64	+ 6	Z	0	bc	*		75	59	—
	Hernösand ...	30.02	62	Z	0	b	30.04	+ .01	65	61	+ 4	NE	2	bc	*		75	55	—
	Stockholm ...	30.01	68	E NE	2	o	29.92	— .14	70	64	0	E NE	4	c	*		79	61	—
	Wishby ...	29.94	64	E	2	b	29.80	— .21	74	64	+ 11	SE	6	bc	*		67	59	0.04
	Bodo ...	30.10	55	W	2	bc	30.20	+ .18	51	50	— 9	W	4	o	3		61	51	—
	Christiansund ...	30.16	53	NW	3	o	30.20	+ .11	52	49	— 5	NNE	5	o	3		57	46	—
	Skadesnæs ...	30.11	57	NW	7	bc	29.97	— .24	56	53	+ 1	NNW	8	o	3		64	55	—
	Christiania Fjord (Færder) ...	29.97	63	S	2	c	29.85	— .16	59	57	+ 1	NNW	6	r	1		64	59	0.43
	Skagen (The Seaw) ...	29.97	59	NW	1	o	29.80	— .24	59	56	— 3	N	3	o	2		73	55	0.08
	Fanø ...	30.04	58	NNW	4	c	29.99	— .07	61	55	— 1	WSW	6	c	*		68	55	—
BRITISH ISLANDS.	Sumburgh Head ...	30.22	49	NNW	3	o	30.28	+ .23	47	44	— 4	N	3	o	3		52	43	0.01
	Stornoway ...	30.30	56	Z	0	b	30.37	+ .15	56	54	0	NNW	1	bc	1		59	47	—
	Wick ...	30.28	53	NW	2	c	30.35	+ .15	52	49	— 3	N	4	bc	1		55	48	—
	Nairn ...	30.29	57	NNE	2	c	30.36	+ .13	53	50	— 3	WNW	2	o	2		60	55	—
	Aberdeen ...	30.26	60	NNW	2	bc	30.31	+ .11	52	48	— 7	NNW	4	c	2		62	47	0.03
	Leith ...	30.26	60	NW	1	c	30.34	+ .11	53	49	— 8	N	1	c	*		71	50	0.07
	Shields ...	30.26	56	E	2	c	30.29	+ .07	53	51	— 6	N	3	op	2		61	50	0.02
	Spurn Head ...	30.25	59	NNE	4	bc	30.25	+ .08	55	54	— 5	N	4	op	2		65	53	0.04
	York ...	30.27	64	NE	1	c	30.31	+ .12	55	53	— 6	N	2	o	*		71	50	0.04
	Loughborough ...	30.26	63	E NE	1	c	30.27	+ .07	56	54	— 9	WNW	1	om	*		73	43	0.02
GERMANY.	Ardrossan ...	30.27	64	E NE	3	b	30.35	+ .10	59	53	— 2	E NE	1	bc	1		67	?	—
	Malin Head ...	30.31	61	NW	2	b	30.36	+ .09	58	54	— 1	NNE	3	b	3		62	55	0.03
	Mullaghmore ...	30.30	61	NW	4	cv	30.39	+ .09	59	55	— 2	NNW	5	cup	3		65	54	0.01
	Belmullet ...	30.39	61	NNW	1	b	30.44	+ .10	59	54	+ 3	N	3	o	*		63	55	0.03
	Donaghadee ...	30.32	58	N	2	bc	30.35	+ .05	58	56	— 1	N	4	b	2		63	56	0.05
	Barrow-in-Furness ...	30.25	62	NNW	4	bc	30.27	+ .07	60	59	+ 2	NE	3	bc	*		66	54	—
	Liverpool (Bidston) ...	30.28	63	WNW	4	b	30.28	+ .04	61	?	0	N	1	o	?		?	?	?
	Holyhead ...	30.32	58	NNW	2	b	30.30	+ .02	59	57	— 1	NNW	3	bc	2		62	55	—
	Parsonstown ...	30.35	64	NNW	1	c	30.39	+ .05	60	56	+ 3	Z	0	bc	*		69	51	—
	Valencia ...	30.37	65	NNW	3	bc	30.40	+ .05	60	51	— 3	NE	3	c	3		67	54	—
FRANCE & NETHERLANDS.	Roche's Point ...	30.35	61	SW	2	bc	30.36	+ .04	62	58	+ 2	NNE	3	b	3		65	55	—
	Pembroke ...	30.34	60	NNW	1	b	30.29	+ .02	59	58	— 3	NE	4	bc	2		67	53	—
	Scilly ...	30.29	65	N	3	bc	30.27	.00	59	56	— 5	NE	5	c	4		68	57	—
	Prawle Point ...	30.25	60	WNW	3	b	30.23	— .02	59	56	— 10	N	4	o	2		70	53	—
	Jersey ...	30.26	68	NW	2	bc	30.27	— .05	63	60	0	NE	3	cm	3		70	58	—
	Hurst Castle ...	30.20	73	NNE	2	b	30.23	+ .01	62	58	— 3	E NE	2	bc	1		76	54	—
	Dungeness ...	30.19	58	E	4	hl	30.19	+ .03	60	58	— 5	E	4	c	3		68	52	0.83
	London ...	30.20	67	E	1	c	30.24	+ .06	62	57	— 1	NE	1	b	*		73	53	0.04
	Oxford ...	30.25	61	NE	3	b	30.26	+ .05	58	55	— 3	NE	1	bc	*		73	49	—
	Cambridge ...	30.26	63	N	2	o	30.25	+ .08	60	56	— 4	NE	1	bc	*		74	49	0.33
PENIN-SULA.	Yarmouth ...	30.21	63	NNE	4	bc	30.22	+ .06	61	56	— 1	NNE	4	b	3		68	52	—
	Cuxhaven ...	30.01	63	N	4	r	30.06	+ .01	61	58	— 4	NNW	4	c	*		66	59	0.48
	Berlin ...	29.85	62	NW	2	o	30.02	+ .05	58	56	— 12	NW	3	o	*		70	57	0.87
	Wiesbaden ...	30.21	61	NW	3	b	30.16	+ .15	63	57	— 3	NW	2	b	*		73	54	0.32
	Munich ...	30.21	61	NW	3	b	30.08	— .02	62	57	— 9	NE	1	c	*		77	52	0.04
	The Helder ...	30.16	62	N	3	c	30.15	+ .07	61	54	0	NW	3	c	3		64	57	—
	Brussels ...	30.19	62	NNE	1	*	30.17	+ .04	61	58	+ 1	NE	3	o	*		73	55	—
	Cape Gris Nez ...	30.19	62	NNE	1	*	30.20	+ .07	59	57	— 1	NE	5	c	4		70	55	—
	Paris ...	30.18	70	N	3	bc	30.15	— .05	59	57	— 2	NNE	3	b	*		75	55	—
	Brest ...	30.27	66	NNW	5	c	30.22	— .09	57	55	— 3	NNE	4	c	3		75	50	—
PENIN-SULA.	Lorient ...	30.23	69	WNW	3	bc	30.20	— .07	59	56	+ 4	NE	4	b	2		72	54	—
	Rochefort ...	30.16	77	NNW	5	bc	30.13	— .11	64	60	— 1	NNE	5	c	2		79	59	—
	Belfort ...	30.17	73	SW	1	b	30.08	— .06	65	59	0	NE	3	b	*		81	51	—
	Lyons ...	29.93	79	Z	0	b	29.94	— .08	73	69	— 3	Z	0	c	0		88	66	—
	Nice ...	30.04	75	W	4	A	30.01	— .07	77	71	— 5	Z	0	bc	*		97	66	0.08
	Perpignan ...	30.13	73	N	4	o	30.08	— .09	69	67	— 1	W	7	hl	3		77	68	0.28
	Biarritz ...	30.05	61	NW	5	b	30.12	— .02	66	63	— 6	NNE	5	c	5		77	63	—
	Corunna ...	30.05	61	NW	5	b	29.99	— .13	68	65	0	NNW	5	b	2		79	63	—
	Lisbon ...	30.05	61	NW	5	b	29.99	— .13	68	65	0	NNW	5	b	2		79	63	—
	Lisbon ...	30.05	61	NW	5	b	29.99	— .13	68	65	0	NNW	5	b	2		79	63	—

For Explanation of Columns, see p. 4.



# WEATHER CHARTS

for 8 a.m. on Sunday, 17<sup>th</sup> July.

1887.

## 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.

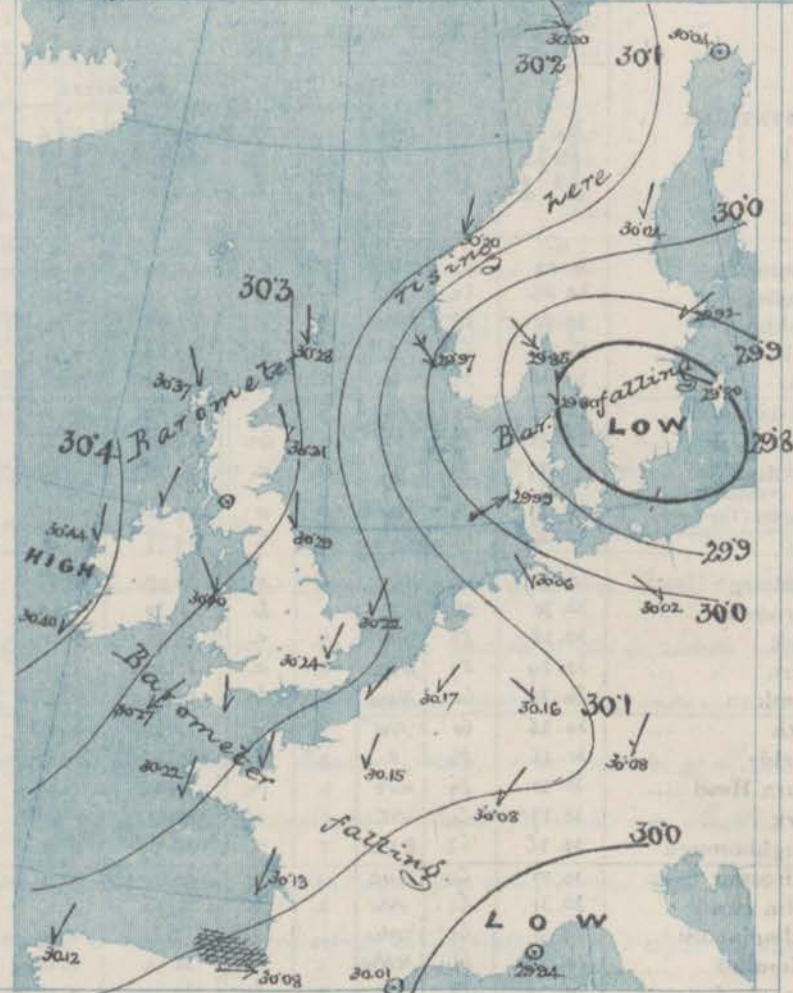
**Sea Disturbance** — where considerable is shown thus

■ = Rough. ■ = High.

## MEAN HEIGHT of the BAROMETER

at 8 a.m. for the month of July.  
During the 10 Years 1871—1880.

STATIONS.	MEAN READINGS.
	<i>ins.</i>
Sumburgh Head	29.827
Stornoway	29.799
Wick	29.813
Nairn	29.824
Aberdeen	29.829
Leith	29.848
Shields	29.873
York	29.902
Ardrossan	29.864
Donaghadee	29.878
Holyhead	29.914
Liverpool	29.910
Valencia	29.944
Roches's Point	29.940
Pembroke	29.942
Scilly	29.966
Hurst Castle	29.961
Dover	29.959
LONDON	29.955
Oxford	29.941
Cambridge	29.937
Yarmouth	29.984



## 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	57.0	48.5	53.7	52.2	2.09
Stornoway	60.3	49.7	56.4	54.3	3.02
Wick	62.4	49.4	56.2	53.9	2.25
Nairn	65.0	51.6	57.4	53.7	2.57
Aberdeen	64.4	51.7	57.9	54.4	2.74
Leith	68.0	52.0	59.1	55.9	2.84
Shields	64.6	53.6	58.8	55.5	2.63
York	68.1	52.8	59.7	56.5	2.57
Ardrossan	64.0	53.8	57.8	54.8	2.91
Donaghadee	62.9	52.0	57.7	55.9	2.67
Holyhead	64.5	55.0	58.3	56.1	2.32
Liverpool	68.4	54.6	59.8	56.1	2.90
Valencia	64.5	53.9	59.0	56.2	3.91
Roche's Point	68.2	53.9	59.1	56.0	3.16
Pembroke	64.0	55.4	58.5	56.2	2.31
Scilly	65.0	56.9	60.3	58.2	2.20
Hurst Castle	67.9	56.4	61.7	59.2	2.15
Dover	67.4	57.5	63.0	59.2	1.82
LONDON	73.3	64.2	62.5	58.6	2.17
Oxford	69.9	58.7	60.4	57.1	2.51
Cambridge	72.5	62.8	61.3	58.0	2.30
Yarmouth	66.7	55.5	61.4	58.4	2.68

NOTE — The Temperature means are for the 10 years 1871—80, the Rainfall means are mainly those for the 20 years 1866—85.





# GENERAL SITUATION AT 8 A.M.

PRESSURE	Highest, 30.4 in. and upwards, in an anticyclone lying off the west of Ireland. Lowest, 29.8 in. and less, in a well marked depression lying over the south of Sweden; relatively low, 30.0 in. and less, over Spain and the extreme south of France.
TEMPERATURE	Highest, 77° at Perpignan, 74° at Wisby, 73° at Nice, 70° at Haparanda and Stockholm & 69° at Biarritz. Lowest, 47° at Lumburgh Head, 51° at Bodø, 52° at Christiansund, Trondheim and Aberdeen & 53° at Naime, South & Shields.
WIND	Moderate N. over our islands and the greater part of France, as well as at Corunna and Lisbon. Strong from W. in the eastern shores of the North Sea, with a gale at Rudesnaes. Moderate to strong from E. or S.E. in the south of Sweden.
WEATHER	Fair generally, but dull in Norway, with rain at Laarder (Christians Fiord). A thunderstorm is reported at Biarritz, and passing showers are falling at Shields, Spurn Head & Mullaghmore. [Showers fell yesterday at all but our western & south-western stations, and thunderstorms were experienced in the S.E. of England.]
SEA	High at Biarritz, but moderate to smooth elsewhere.

## PROBABLE CHANGES IN SYSTEM NOW PREVALENT

In the course of the past 24 hours a well defined depression has been formed over the south of Sweden and the barometer is now falling over the whole of Denmark and the south of Scandinavia. A separate fall is also reported over France. In our islands, however, the mercury continues to rise steadily.

## FORECASTS

for the 24 hours ending at NOON on 18<sup>th</sup> JULY 1887.

DISTRICTS.	FORECASTS.	DISTRICTS.	FORECASTS.
0 SCOTLAND NORTH	NONE ISSUED	6 SCOTLAND WEST	NONE ISSUED
1 SCOTLAND EAST		7 ENGLAND N.W.	
2 ENGLAND N.E.		8 ENGLAND S.W.	
3 ENGLAND EAST		9 IRELAND NORTH	
4 MIDLAND COUNTIES		10 IRELAND SOUTH	
5 ENGLAND SOUTH			
		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.	Wes.	Sea.		Bar.	Dry.	Wet.	Wind.	Wes.	Sea.
Skudesnaes ...	30.11	63	56	WNW 4	b	3	Holyhead ...	30.32	61	56	NNW 2	b	1
Sumburgh Head ...	30.11	51	48	NNW 2	o	2	Valencia ...	30.37	66	59	NNW 3	cv	3
Stornoway ...	30.12	57	55	2 0	bc	0	Scilly ...	30.29	67	63	N 2	c	3
Aberdeen ...	30.14	61	56	NNW 2	c	1	Dungeness ...	30.17	65	62	SW 1	bc	1
Shields ...	30.16	59	55	W 3	c	3	London ...	30.18	70	60	NNW 2	c	*
Ardrossan ...	30.27	65	59	WNW 3	c	2	Yarmouth ...	30.18	66	62	NNW 4	c	3
Malin Head ...	30.30	62	57	NW 2	o	1	Jersey ...	30.27	69	57	NNE 3	bc	3
Mullaghmore ...	30.35	61	56	WNW 4	bc	5	Rocheport ...						
Belmullet ...	30.38	63	55	NW 2	bc	*							

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

The reports for yesterday morning showed that while an anticyclone, with readings above 30.4 in. lay over the west and southwest of the British Islands, pressure over the Continent was exceedingly uniform between 30.0 in. and 30.1 in.. Over the south of Russia, however, there was an area in which readings were below 29.9 in., while over North Germany there was a shallow depression, with readings below 30.0 in.. Light or moderate breezes from the NW<sup>th</sup> prevailed over our islands and the north of France, and NE<sup>th</sup> breezes over the Bay of Biscay, while over Germany there was a cyclonic circulation round the depression mentioned above. Elsewhere, however, the wind was exceedingly light and variable. The weather was fine generally, but over Germany and the Netherlands the sky was overcast, with rain at Frankfurt, Dordrecht and Munich. Temperature had risen a little in Russia and fallen in the northeast of our islands, but elsewhere the changes were very irregular; readings ranged from between 75° and 85° over Southern Europe, the Mediterranean and Algeria to 60° or less over Norway and the northern parts of our islands. The highest individual readings were 86° at Bittwa, 84° at Trieste and Barcelona, 83° at Cetta, Crotte and Palma and 82° at Perpignan and Cagliari; the lowest were 51° at Sumburgh Head, 55° at Skudesnaes and Wick, 56° at Stornoway, Nairn and Belmullet and 57° at Christiansund & Roserston.

In the course of the day a rather large depression was developed over the south of Sweden, while some small shallow disturbances appeared over England. The latter occasioned thunderstorms in many places and at Dungeness the accompanying rainfall amounted to as much as 0.8 in.

### 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 18<sup>th</sup> July

1887.

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.		
	Inch.	°				Inch.	Inch.	°	°	°					°	°	Inch.	
SCANDINAVIA.																		
Haparanda ..	30.09	68	2	0	b	30.04	Ins.	73	67	+ 3	N	4	b	*	79	57	—	
Hernösand ...	30.02	66	2	0	b	29.98	-.06	61	60	- 4	NE	2	b	*	79	54	0.04	
Stockholm ...	29.93	63	2	0	0	30.07	+ .15	63	60	- 7	WSW	2	0	*	?	?	0.08	
Wisby ...	29.90	61	SW	2	b	30.04	+ .24	61	58	- 13	W	2	b	*	75	54	0.16	
Bodo ...	30.25	51	NNW	2	c	30.05	-.15	55	52	+ 4	NW	1	b	1	57	48	—	
Christiansund...	30.13	53	NE	8	c	29.92	-.28	54	51	+ 2	NNE	5	c	3	55	48	—	
Skudesnaes ...	29.79	54	NW	7	b	29.79	-.18	64	57	+ 8	E	2	c	3	?	54	—	
Christiania Fjord (Farder)	29.62	60	SE	6	0	29.94	-.09	58	55	- 1	SSE	5	0	4	61	57	1.06	
Skagen (The Seaw)	29.80	58	SW	2	0	29.95	+ .15	58	54	- 1	SW	5	c	2	61	55	0.24	
Fanö ...	29.97	56	WSW	4	c	30.01	+ .02	59	55	- 2	WSW	4	b	*	64	55	—	
BRITISH ISLANDS.																		
Sumburgh Head	30.15	49	N	4	0	30.08	-.20	50	46	+ 3	N	5	c	4	51	46	—	
Stornoway ...	30.36	55	NE	1	b	30.24	-.13	54	52	- 2	SW	1	0	1	60	39	—	
Wick ...	30.23	52	N	4	0	30.17	-.18	54	52	+ 2	N	4	c	1	57	43	—	
Nairn ...	30.33	55	NNE	3	b	30.25	-.11	50	47	- 3	W	2	b	2	61	40	0.01	
Aberdeen...	30.29	52	NNW	4	b	30.19	-.12	54	48	+ 2	N	6	b	2	58	43	—	
Leith ...	30.29	62	SW	3	b	30.24	-.10	57	51	+ 4	NW	1	b	*	68	43	—	
Shields ...	30.28	55	N	3	c	30.23	-.06	52	49	- 1	NNW	1	b	3	58	44	—	
Spurn Head ...	30.24	56	NNW	6	b	30.24	-.01	54	52	- 1	N	4	b	4	59	50	—	
York ...	30.29	57	N	1	b	30.26	-.05	54	51	- 1	N	1	b	*	61	54	—	
Loughborough	30.27	58	SW	3	c	30.28	+ .01	58	52	+ 2	NNW	2	b	*	67	42	0.02	
GERMANY.																		
Ardrossan ...	30.29	66	NW	1	b	30.25	-.10	57	51	- 2	NW	4	b	3	66	49	—	
Malin Head ...	30.36	60	SW	3	b	30.30	-.06	57	54	- 1	NNW	3	0	3	61	56	—	
Mullaghmore ...	30.41	61	NNW	5	b	30.36	-.03	59	53	0	NW	4	cv	2	66	55	—	
Behnullet ...	30.45	60	NNE	2	b	30.39	-.05	59	55	0	WNW	2	0	*	62	50	—	
Donaghadee ...	30.36	60	NNE	4	b	30.33	-.02	57	53	- 1	NNW	4	c	2	63	52	—	
FRANCE & NETHERLANDS.																		
Barrow-in-Furness	30.28	61	N	3	b	30.24	-.03	56	52	- 4	NNW	4	b	*	64	54	—	
Liverpool (Bidston)	30.29	60	NNE	3	b	30.28	.00	59	53	- 2	WNW	3	b	4	65	55	—	
Holyhead ...	30.33	57	NNE	3	c	30.31	+ .01	59	54	0	NNW	3	b	3	60	56	—	
Parsonstown ...	30.37	66	NE	1	b	30.38	-.01	59	54	- 1	W	1	b	*	67	46	—	
Valencia...	30.42	64	NNW	3	b	30.43	+ .03	63	56	+ 3	N	2	b	2	67	53	—	
BRITISH ISLANDS.																		
Roche's Point...	30.34	62	ESE	2	c	30.39	+ .03	57	55	- 4	N	2	b	2	70	50	—	
Pembroke ...	30.29	62	NNE	4	b	30.32	+ .03	59	56	0	NNE	3	b	2	64	56	—	
Scilly ...	30.24	62	NNE	6	b	30.31	+ .04	62	57	+ 3	NNE	5	b	4	64	57	—	
Prawle Point ...	30.26	63	ENE	1	b	30.30	+ .07	63	54	+ 4	N	3	b	2	69	49	—	
Jersey ...	30.14	65	NNE	4	b	30.22	+ .05	59	52	- 4	NE	5	b	4	67	55	—	
FRANCE & NETHERLANDS.																		
Hurst Castle ...	30.20	62	SSE	1	b	30.27	+ .04	53	50	- 9	NNE	2	b	1	73	36	0.62	
Dungeness ...	30.16	61	E	5	b	30.20	+ .01	56	52	- 4	N	4	c	3	66	49	—	
London ...	30.24	62	NE	1	b	30.26	+ .02	55	49	- 7	NE	1	b	*	68	48	0.02	
Oxford ...	30.25	56	NE	4	0	30.28	+ .02	55	50	- 3	NNE	3	b	*	69	44	0.01	
Cambridge ...	30.26	60	N	2	b	30.26	+ .01	58	51	- 2	N	2	b	*	67	43	0.02	
GERMANY.																		
Yarmouth ...	30.21	60	N	4	b	30.21	-.01	56	51	- 5	NNW	4	c	4	63	50	0.01	
Cuxhaven ...	30.08	60	NW	3	b	30.08	+ .02	63	59	+ 2	W	4	c	*	63	60	—	
Berlin ...	30.07	66	W	1	b	30.13	+ .11	64	60	+ 6	SSW	2	c	*	72	57	—	
Wiesbaden ...	*	*	*	*	*	30.06	-.10	65	58	+ 2	N	1	0	*	72	59	—	
Munich ...	30.05	65	NE	2	b	30.02	-.06	61	58	- 1	SW	1	0	*	70	54	0.04	
FRANCE & NETHERLANDS.																		
The Helder ...	30.13	58	N	3	c	30.15	.00	57	54	- 4	NW	3	c	3	63	55	—	
Brussels ...	*	*	*	*	*	30.17	.00	58	54	- 3	NNE	3	0	*	68	50	0.04	
Cape Gris Nez...	30.17	57	NE	5	b	30.20	.00	55	52	- 4	NNE	7	0	5	64	50	—	
Paris ...	30.05	67	NE	5	c	30.12	-.03	55	52	- 4	NNE	5	0	*	73	50	—	
Brest ...	30.17	63	NNE	5	b	30.26	+ .04	58	53	+ 1	NE	4	b	3	75	50	—	
FRANCE & NETHERLANDS.																		
Lorient ...	30.10	66	ENE	7	c	30.19	-.01	57	54	- 2	NNE	4	b	2	72	55	0.32	
Rochefort ...	30.01	71	NNW	5	c	30.05	-.08	58	56	- 6	NE	8	0	2	79	54	—	
Belfort ...	?	65	?	1	0	29.94		60	59		NNE	1	b	*	73	59	0.20	
Nice ...	29.85	72	0	2	0	29.89	-.05	75	68	+ 2	E	1	c	1	84	64	—	
FRANCE & NETHERLANDS.																		
Perpignan ...	29.95	72	SW	3	b	29.91	-.10	62	59	- 15	W	3	0	*	87	61	2.36	
Biarritz ...	*	*	*	*	*												—	
PENINSULA.																		
Corunna ...	*	*	*	*	*												—	
Lisbon ...	29.90	70	NW	6	b	29.91	-.08	67	60	- 1	NNW	5	b	3	81	63	—	

For Explanation of Columns see n. 4.



# WEATHER CHARTS

for 8 a.m. on *Monday, 18<sup>th</sup> July 1887.*

## 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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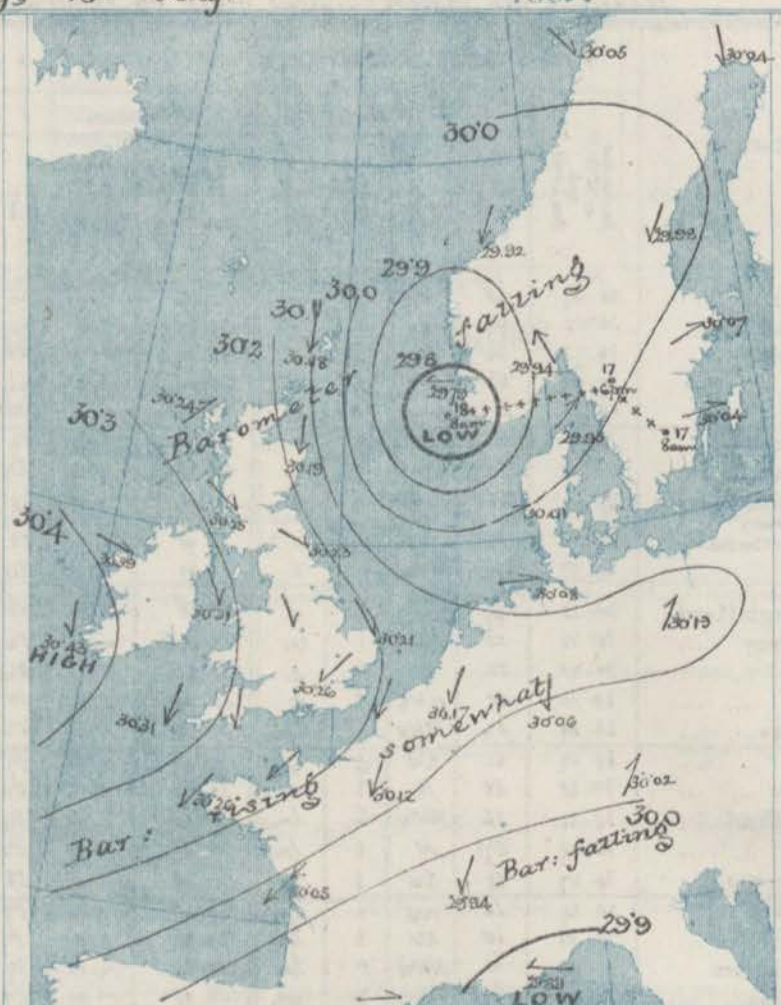
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at 8 a.m. for the month of July.  
During the 10 Years 1871—1880.

STATIONS.	MEAN READINGS.
	in.
Sumburgh Head	29.827
Stornoway	29.799
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Leith	29.848
Shields	29.873
York	29.902
Ardrossan	29.864
Donaghadee	29.878
Holyhead	29.914
Liverpool	29.910
Valencia	29.944
Roche's Point	29.940
Pembroke	29.942
Scilly	29.986
Hurst Castle	29.961
Dover	29.959
LONDON	29.955
Oxford	29.941
Cambridge	29.937
Yarmouth	29.934



## 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.	At 8 p.m.	
Sumburgh Head	57.9	48.5	53.7	52.2	2.09
Stornoway	60.3	49.7	56.4	54.3	3.02
Wick	62.4	49.4	56.2	53.9	2.25
Nairn	65.0	51.0	57.4	53.7	2.57
Aberdeen	64.4	51.7	57.9	54.4	2.74
Leith	68.0	52.0	59.1	55.9	2.84
Shields	64.6	53.6	58.8	55.5	2.63
York	68.1	52.3	59.7	56.5	2.57
Ardrossan	64.0	53.8	57.8	54.8	2.91
Donaghadee	62.9	52.0	57.7	55.9	2.67
Holyhead	64.5	55.0	58.3	56.1	2.32
Liverpool	66.4	54.6	59.8	56.1	2.99
Valencia	64.5	53.9	59.0	56.2	3.91
Roche's Point	68.2	53.9	59.1	56.0	3.16
Pembroke	64.0	55.4	58.5	56.2	2.31
Scilly	65.0	56.9	60.3	58.2	2.29
Hurst Castle	67.9	56.4	61.7	59.2	2.15
Dover	67.4	57.5	63.0	59.2	1.82
LONDON	73.3	54.2	62.5	58.6	2.17
Oxford	69.9	53.7	60.4	57.1	2.51
Cambridge	72.5	52.8	61.3	58.0	2.30
Yarmouth	66.7	55.5	61.4	58.4	2.68

NOTE — The Temperature means are for the 10 years 1871—80, the Rainfall means are mainly those for the 10 years 1866—85





# GENERAL SITUATION AT 8 A.M.

PRESSURE	Highest, 30.4 in. and upwards, in an anticyclone lying off the Southwest of Ireland. Lowest, 29.8 in. and less, in a well marked depression having its centre near Skudenes. Another depression with readings below 29.9 in. is lying over the Gulf of Genoa.
TEMPERATURE	Highest, 75° at Nice, 73° at Haparanda, 67° at Lisbon, 65° at Wrocław, 64° at Berlin and 63° at Stockholm, Valencia and Prowle Point. Lowest, 50° at Lumburgh Head & Nairn, 52° at Shields and 54° at Christiansund, Stornoway, Wick, Aberdeen, Spurn Head & York.
WIND	Moderate to fresh from NW. or N. over the greater part of the United Kingdom, but light from SW. at Stornoway. Fresh NE. in France: moderate SW. in Denmark. N. or NE. over Norway and the north of Sweden.
WEATHER	Fair generally, but dull at several of the Scandinavian, German and French stations, with rain at Helsingfors & Lyng. [Shower fell yesterday in many parts of England, and at Harst Castle a thunderstorm, with heavy rain (0.62 in.) was reported.
SEA	Rather rough at C. Grieg, but moderate to smooth elsewhere.

## PROBABLE CHANGES IN SYSTEM NOW PREVALENT

With the present distribution of pressure the depression over the south of Norway is likely to change its course and move southwards down the North Sea.

The backing of the wind to SW. at Stornoway seems to indicate the advance of other disturbances from the north-westward.

## FORECASTS

For the 24 hours ending at NOON on 19<sup>th</sup> JULY

1887.

DISTRICTS.	FORECASTS.	DISTRICTS.	FORECASTS.
0 SCOTLAND NORTH	N <sup>ly</sup> to W <sup>ly</sup> winds, moderate or fresh; fair to dull and some rain.	6 SCOTLAND WEST	NW <sup>ly</sup> winds, moderate; fair generally.
1 SCOTLAND EAST	N <sup>ly</sup> winds, strong, & NW <sup>ly</sup> moderate; fair generally, but local showers.	7 ENGLAND N.W.	..... D. .... D. .... D. ....
2 ENGLAND N.E.	Same as N <sup>o</sup> 5.	8 ENGLAND S.W.	N <sup>ly</sup> winds, moderate or fresh; fair generally.
3 ENGLAND EAST	Same as N <sup>o</sup> 5.	9 IRELAND NORTH	NW <sup>ly</sup> to W <sup>ly</sup> winds freshening, cloudy, rain locally.
4 MIDLAND COUNTIES	Same as N <sup>o</sup> 5.	10 IRELAND SOUTH	N <sup>ly</sup> to NW <sup>ly</sup> winds, light; fair generally.
5 ENGLAND SOUTH	N <sup>ly</sup> winds, freshening; fair generally, but local showers.	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 ...	29.88	58	54	NNW 8	0	4	Holyhead ...	30.34	58	54	NNE 3	b	2
Sumburgh Head							Valencia ...						
Stornoway ...	30.39	58	54	NE 1	bz	1	Scilly ...						
Aberdeen ...							Dungeness ...	30.07	61	57	E 4	c	3
Shields ...							London ...						*
Ardrossan ...							Yarmouth ...						
Malin Head ...	30.12	60	55	N 3	bz	3	Jersey ...	30.18	63	59	NNE 4	0	3
Mullaghmore ...							Rocheport ...	30.08	77	69	NW 4	c	2
Belmullet ...	30.45	62	57	NNE 2	0	*							

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

The continental reports for yesterday morning showed that while an anticyclone, with readings above 30 in., lay to the westward of the British Islands, areas of low pressure existed respectively over the south of Sweden and the Baltic, over the Black Sea provinces, over the Gulf of Lyons and over the north of Algeria. With these conditions N winds (NW at the more northern stations, but NE in the south) were prevalent over our islands, the North Sea and France, but at the Baltic stations the wind was SE, while in Eastern and Southern Europe it was very variable. The weather was fair on the whole, but in the neighbourhood of the various low pressure areas the sky was overcast & at Lorient rain was falling. Temperature had risen a little at several of the Scandinavian and Russian stations, but fallen in most other localities; readings ranged from 75° upwards in Spain, Italy, Algeria & the extreme South of France and 70° upwards over Finland & Northern Russia to 55° or less in the west of Norway & the north & northeast of the British Islands. The highest individual readings were 82° at Lorient, 81° at Cherbourg & La Celle, 80° at Livorno & Malaga, 79° at Oren, Barcelona & Brindisi; the lowest were 47° in the Shetlands, 51° at Bodø, 52° at Christianund, Trondheim and Aberdeen and 53° at Naime, Seith and Shields.

In the course of the day the depression over the south of Sweden moved slowly in a westnorthwestly direction, while some shallow disturbances appeared over England. The latter system occasioned heavy local showers over some parts of an midland & eastern Britain, with a thunderstorm at Harlow.

## SUMMARY OF CHANGES IN THE WEATHER OVER THE BRITISH ISLANDS AND THEIR NEIGHBOURHOOD. FROM THE 10<sup>th</sup> TO THE 16<sup>th</sup> JULY 1887.

The weather of this period has been less settled than for many weeks past, and rain has fallen over the whole of the United Kingdom. Over the eastern and southern parts of England, however, the showers have been very partial, and in the extreme Southeast the amount of rainfall has been scarcely sufficient to admit of measurement.

Throughout the greater part of the week the type of pressure distribution was southerly, the barometer being highest over France or Spain, but relatively high over Central Europe and the Baltic. On Sunday the 10<sup>th</sup> the centre of a well defined depression lay over Scotland but since that time the more important disturbances have moved northward outside our extreme west and northwest coasts, and on Tuesday the 12<sup>th</sup> and Wednesday the 13<sup>th</sup>, when two rather extensive systems passed along, the wind blew very strongly from S. and SW. in the west of Ireland. In other parts of the Kingdom nothing more than moderate or fresh breezes from the SW. have been experienced.

The principal depression in the west and north have, however, been attended by shallow secondary disturbances and these have advanced eastward over the Kingdom, occasioning showers and local thunderstorms. At the close of the week the main depressions had moved away to the north of our islands, while the smaller systems had travelled to the south, leaving a well marked anticyclone advanced from the NW bringing a renewal of fine weather to all but our NW stations.

Temperature has been somewhat low for the time of year in Ireland and Scotland, but over England the weather has remained warm, maxima exceeding 80° being registered on several occasions. The highest readings of all were recorded on the 13<sup>th</sup>, when the thermometer rose to 82° in London and to 85° at Cambridge.

## 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 19<sup>th</sup> July

1887.

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

Issued by the Meteorological Office, 16, Victoria Street, London, E.C. 1, 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 ..	29.90	72	SE	4	c	29.88	— .16	63	60	— .10	S	2	bc	*	70	61	0.24	
	Hernösand ...	29.92	59	L	0	c	29.90	— .08	62	56	— .1	SW	2	b	*	72	57	0.24	
	Stockholm ...	30.09	60	L	0	bc	30.03	— .04	70	61	— .7	SSW	2	bc	*	73	57	—	
	Wisby ...	30.06	60	S	4	b	30.02	— .02	64	59	— .3	SW	4	c	*	72	55	—	
	Bodö ...	29.83	58	NNW	2	o	29.78	— .27	54	53	— .1	WSW	4	r	2	68	48	0.24	
	Christiansund...	29.89	54	WNW	2	f	30.02	— .10	51	50	— .3	WSW	1	f	1	61	48	0.04	
	Skudesnaes ...	29.94	55	NNW	6	o	30.06	— .27	53	52	— .11	WNW	6	r	4	68	?	—	
	Christiania Fjord (Fjorder)	29.89	54	SSE	3	o	29.95	— .01	59	55	— .1	ENE	2	bc	3	61	54	0.20	
	Skagen (The Scaw)	29.91	55	SW	5	o	29.90	— .05	58	57	— .0	NNE	1	bc	1	63	54	0.12	
	Fanö ...	30.01	55	SW	6	r	30.05	— .04	57	55	— .2	W	6	c	*	63	54	0.16	
BRITISH ISLANDS.	Sumburgh Head	30.07	54	NW	1	c	30.11	— .03	50	50	— .0	NW	2	o	2	55	47	0.01	
	Stornoway ...	30.16	60	SW	3	cm	30.23	— .01	58	57	— .4	W	2	cm	2	61	53	—	
	Wick ...	30.14	53	SW	1	o	30.20	— .03	57	55	— .3	NW	3	o	1	69	50	—	
	Nairn ...	30.17	62	SW	2	c	30.25	— .00	58	55	— .8	W	2	o	1	68	49	—	
	Aberdeen...	30.17	61	SE	1	c	30.24	— .05	60	55	— .6	NNW	4	bc	1	66	53	—	
	Leith ...	30.19	64	NW	2	bc	30.25	— .01	68	60	— .11	W	1	b	*	74	55	—	
	Shields ...	30.19	58	E	2	bc	30.23	— .00	65	61	— .13	NE	1	c	3	65	51	—	
	Spurn Head ...	30.23	57	ENE	1	b	30.25	— .01	61	60	— .7	NNW	3	bc	3	61	52	—	
	York ...	30.20	68	SE	1	b	30.26	— .00	63	60	— .9	NW	1	o	*	72	51	—	
	Loughborough	30.21	67	W	4	b	30.28	— .00	61	59	— .3	NW	2	ogm	*	70	42	—	
GERMANY.	Ardrossau ...	30.25	60	WNW	3	o	30.30	— .05	58	56	— .1	NW	3	bc	2	66	49	—	
	Malin Head ...	30.24	60	W	3	cf	30.35	— .05	59	59	— .2	NW	3	o	3	61	56	0.01	
	Mullaghmore ...	30.30	60	WSW	4	ad	30.41	— .05	60	58	— .1	NW	4	c	3	62	57	—	
	Belmullet ...	30.34	61	NNW	3	o	30.46	— .07	59	56	— .0	NW	2	o	*	62	56	0.01	
	Donaghadee ...	30.29	59	NE	3	o	30.35	— .02	61	57	— .4	NNE	4	b	2	63	55	—	
	Barrow-in-Furness	30.23	64	NW	3	b	30.31	— .07	60	60	— .4	NNW	3	o	*	65	55	—	
	Liverpool (Bidston)	30.26	62	W	4	b	30.30	— .02	58	57	— .1	WNW	3	ad	3	64	57	0.03	
	Holyhead ...	30.30	60	WNW	1	bc	30.34	— .03	59	57	— .0	NNW	3	c	2	67	57	0.01	
	Parsonstown ...	30.33	64	W	1	o	30.40	— .02	61	57	— .2	NW	1	c	*	69	57	—	
	Valencia ...	30.39	60	WSW	1	om	30.43	— .00	65	61	— .2	N	3	bc	3	69	58	—	
FRANCE & NETHERLANDS.	Roche's Point...	30.33	67	NNW	4	bc	30.39	— .00	63	60	— .6	NNE	3	b	2	69	57	—	
	Pembroke ...	30.31	61	NW	1	b	30.33	— .01	60	60	— .1	NNE	3	o	2	62	56	0.01	
	Scilly ...	30.33	62	N	5	bc	30.31	— .03	65	61	— .3	NNE	2	b	3	65	59	—	
	Prawle Point ...	30.25	63	SSW	1	b	30.28	— .02	65	58	— .2	NNE	4	bm	3	66	50	—	
	Jersey ...	30.22	62	NNW	3	b	30.23	— .01	61	55	— .2	NE	3	b	3	69	48	—	
	Hurst Castle ...	30.24	63	NNE	3	bc	30.28	— .01	60	56	— .7	ENE	2	m	1	70	46	—	
	Dungeness ...	30.18	60	E	4	bc	30.24	— .04	56	53	— .0	NNE	3	bc	1	65	44	—	
	London ...	30.20	68	ESE	2	b	30.27	— .01	60	55	— .5	NW	1	bm	*	70	46	—	
	Oxford ...	30.24	62	N	2	b	30.28	— .00	61	58	— .6	NNE	2	b	*	69	47	—	
	Cambridge ...	30.22	64	E	1	bc	30.26	— .00	63	55	— .5	W	1	b	*	72	41	—	
PENINSULA.	Yarmouth ...	30.23	60	N	4	bc	30.24	— .03	60	54	— .4	WNW	2	b	3	63	46	—	
	Cuxhaven ...	30.13	57	W	3	c	30.10	— .02	59	57	— .4	WNW	4	o	*	63	56	—	
	Berlin ...	30.07	68	NE	1	b	30.12	— .01	61	58	— .3	NW	2	bc	*	72	57	—	
	Wiesbaden ...	*	*	*	*	*	30.12	— .06	66	59	— .1	N	3	b	*	73	61	—	
	Munich ...	30.08	68	L	0	c	30.08	— .06	68	63	— .7	NE	2	b	*	75	55	—	
	The Helder ...	30.18	57	NW	3	c	30.21	— .06	59	53	— .2	N	3	c	2	69	57	—	
	Brussels ...	*	*	*	*	*	30.21	— .04	57	52	— .1	NNE	4	bc	*	69	57	—	
	Cape Gris Nez...	30.21	59	NE	5	b	30.25	— .05	58	54	— .3	NE	5	b	4	64	54	—	
	Paris ...	30.09	67	NNE	5	b	30.14	— .02	56	52	— .1	N	4	b	*	70	52	—	
	Brest ...	30.25	61	NE	5	bc	30.26	— .00	60	55	— .2	NE	4	b	3	75	50	—	
FRANCE & NETHERLANDS.	Lorient ...	30.19	62	NNE	8	b	30.19	— .00	58	52	— .1	NE	7	b	4	66	54	—	
	Rochefort ...	30.07	58	NNE	7	r	29.99	— .06	57	57	— .1	NE	8	o	3	70	52	2.36	
	Belfort ...	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	
	Lyons ...	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	
	Nice ...	29.94	77	SE	3	b	29.98	— .01	80	63	— .5	E	5	b	6	86	70	—	
FRANCE & NETHERLANDS.	Perpignan ...	29.90	62	NW	3	r	29.89	— .02	60	59	— .2	W	3	o	*	70	57	0.55	
	Biarritz ...	29.99	64	N	4	o	29.91	— .08	60	58	— .2	NW	5	blr	3	68	57	1.93	
	Corunna ...	*	*	*	*	*	30.29	— .07	58	58	— .0	N	7	o	5	60	57	—	
PENINSULA.	Lisbon ...	29.98	70	NNW	8	b	30.11	— .20	65	54	— .2	N	7	b	2	79	61	—	

For Explanation of Columns, see p. 4. Received too late for insertion in charts



# WEATHER CHARTS

for 8 a.m. on Tuesday, 19<sup>th</sup> July, 1887.

## BAROMETER, WIND & SEA.

(Explanation of Map)

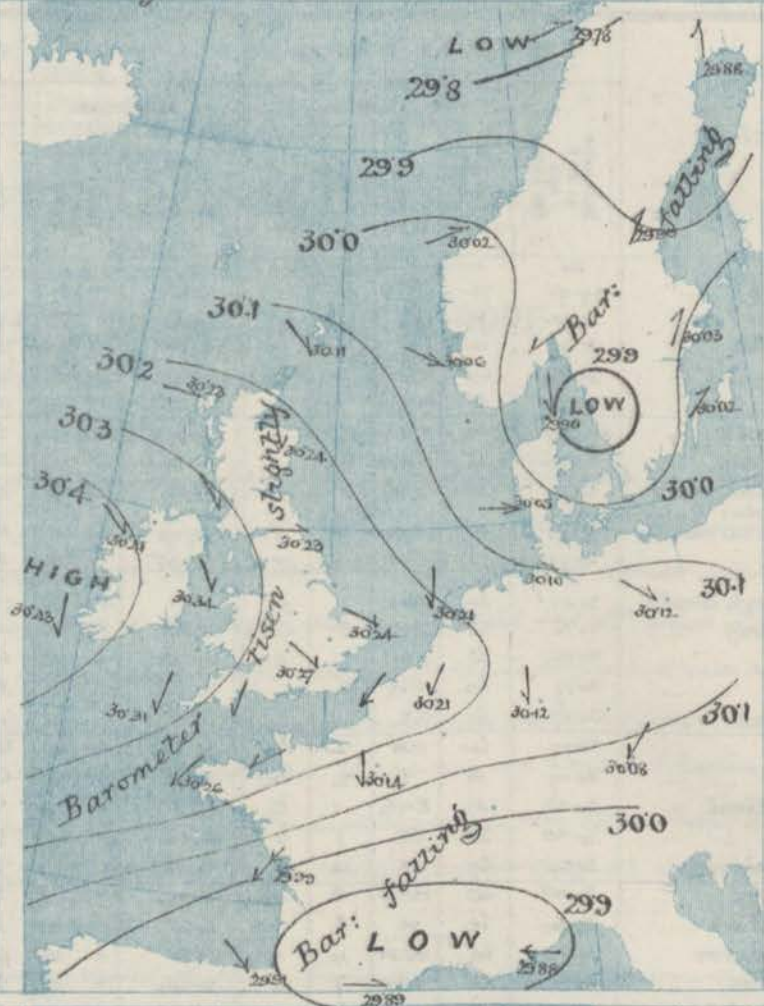
**Barometer** — Isobars are drawn for each tenth of an inch. Changes since previous morning are stated in words.  
**Wind** — Arrows show the prevalent winds. They fly with the wind and their barbs and feathers refer to force, thus —  
 — force above 10; — force 8 to 10;  
 — force 5 to 7; — force 1 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 10 Years 1871—1880.

STATIONS.	MEAN READINGS.
Sumburgh Head	29.827
Stornoway	29.799
Wick	29.813
Nairn	29.824
Aberdeen	29.829
Leith	29.848
Shields	29.873
York	29.902
Ardrossan	29.864
Donsghadee	29.878
Holyhead	29.914
Liverpool	29.910
Valencia	29.944
Roche's Point	29.940
Pembroke	29.942
Scilly	29.986
Hurst Castle	29.961
Dover	29.959
LONDON	29.955
Oxford	29.941
Cambridge	29.937
Yarmouth	29.934



## 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.	Average	Wet.	
Sumburgh Head	57.9	48.5	53.7	52.2	2.09
Stornoway	60.3	49.7	56.4	54.8	3.02
Wick	62.4	49.4	56.2	53.9	2.25
Nairn	65.0	51.6	57.4	53.7	2.57
Aberdeen	64.4	51.7	57.9	54.4	2.74
Leith	68.0	52.0	59.1	55.9	2.84
Shields	64.6	53.0	58.8	55.5	2.63
York	68.1	52.3	59.7	56.5	2.57
Ardrossan	64.0	53.8	57.8	54.8	2.91
Donsghadee	62.9	52.0	57.7	55.9	2.67
Holyhead	64.5	55.0	58.3	56.1	2.32
Liverpool	66.4	54.6	59.8	56.1	2.99
Valencia	64.5	53.9	59.0	56.2	3.91
Roche's Point	68.2	53.9	59.1	56.0	3.16
Pembroke	64.0	55.4	58.5	56.2	2.31
Scilly	65.0	56.9	60.3	58.2	2.29
Hurst Castle	67.9	56.4	61.7	59.2	2.15
Dover	67.4	57.5	63.0	59.2	1.82
LONDON	73.3	54.2	62.5	58.6	2.17
Oxford	69.9	58.7	60.4	57.1	2.51
Cambridge	72.5	62.8	61.3	58.0	2.30
Yarmouth	68.7	56.5	61.4	58.4	2.68

Note — The Temperature means are for the 10 years 1871—80, the Rainfall means are mainly those for the 20 years 1866—85





# GENERAL SITUATION AT 8 A.M.

## PRESSURE

Highest, 30.6 ins to 30.6 ins over the western parts of Ireland, 30.3 ins and more at all our western stations.  
Lowest, 29.9 ins both over the south of France and the Sound, 29.8 ins and less in the north of Norway.  
Gradients, moderate in France, slight elsewhere. Barometer falling in south of France.

## TEMPERATURE

Highest, 80° at Nice, 70° at Stockholm, 68° at Munich, 65° at Valencia, Seilly, and Prowle Point.  
Lowest, 50° at Lumburg Head, 51° at Christiansund, 53° at Hudesnaes, 54° at Bodø, 56° at Paris, 57° at Rochefort.  
It has risen over the whole of our islands since yesterday [Maximum over Great Britain yesterday 70° to 74°]

## WIND

W<sup>ly</sup> moderate in Norway and Denmark; S.W. light in Sweden.  
W<sup>ly</sup> light at our northern stations. N.E. moderate in the south.  
A fresh N.E. gale is blowing over the Bay of Biscay — Moderate W<sup>ly</sup> winds in the south-west of France.

## WEATHER

Fine over our islands — but dull in the extreme west and north-west.  
Dull in the south of France, with a thunderstorm at Biarritz. Foggy and rainy in Norway.  
Rain has fallen generally on the eastern shores of the North Sea, and slight misty drizzle in the west of Ireland. Very heavy rain has fallen in the south-west of France.

## SEA

Very little disturbed except on the western and southern coasts of France.

## PROBABLE CHANGES IN SYSTEM NOW PREVALENT

The barometer still rises in our islands; this, together with the fall in the south of France may cause some freshening of the N.E. wind in the south, but no other change of importance appears likely at present.

## FORECASTS

For the 24 hours ending at NOON on 20<sup>th</sup> July 1887.

### DISTRICTS.

### FORECASTS.

0	SCOTLAND NORTH	W <sup>ly</sup> and NW <sup>ly</sup> breezes, light, cloudy, some rain.
1	SCOTLAND EAST	NW <sup>ly</sup> breezes, light, fine.
2	ENGLAND N.E.	----- D° ----- D° -----
3	ENGLAND EAST	Same as N° 5.
4	MIDLAND COUNTIES	Same as N° 5.
5	ENGLAND SOUTH	NE <sup>ly</sup> breezes, freshening, fair, warm.

### DISTRICTS.

### FORECASTS.

6	SCOTLAND WEST	Same as N° 0.
7	ENGLAND N.W.	N <sup>ly</sup> breezes, moderate, fair.
8	ENGLAND S.W.	----- D° ----- D° -----
9	IRELAND NORTH	N <sup>ly</sup> and NW <sup>ly</sup> breezes, moderate, fine in the eastern parts, dull and showery in the west.
10	IRELAND SOUTH	----- D° ----- D° -----
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 ...	29.88	68	59	NW 2	c	3	Holyhead ...	30.31	63	58	WNW 1	b	2
Sumburgh Head ...	30.07	52	48	NNW 4	c	4	Valencia ...	30.42	63	58	WNW 2	sm	2
Stornoway ...	30.16	59	57	SW 3	o	3	Scilly ...	30.33	62	56	NNE 5	c	4
Aberdeen ...	30.15	66	58	NW 4	bc	1	Dungeness ...	30.20	64	56	NE 4	bc	2
Shields ...	30.21	60	56	E 2	c	3	London ...	30.22	66	53	NNE 3	b	*
Ardrossan ...	30.23	66	60	NW 4	c	2	Yarmouth ...	30.23	64	54	N 4	bc	4
Malin Head ...	30.27	59	59	W 3	o	3	Jersey ...	30.24	63	54	N 4	b	3
Mullaghmore ...	30.33	60	57	SW 4	om	2	Rochefort ...						
Belmullet ...	30.33	60	59	WSW 3	od	*							

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

The Continental reports for yesterday morning showed that pressure was highest 30.4 ins: and upwards, in an anticyclone which lay off the southwest of Ireland and lowest 29.8 ins: and less, in a well marked depression having its centre near Skudesnaes. In addition to the disturbance over the south of Norway, however, there was a large area of relatively low pressure (29.9 ins: and less) over the western part of the Mediterranean and the adjacent coasts. Moderate to strong breezes from NW. or N. prevailed in the north of the British Islands, and NE breezes over the Channel and France, but in the neighbourhood of the two low pressure systems a cyclonic circulation was shown, while over eastern and central Europe the wind was very light and variable. The weather was fair generally, but cloudy at several of the Scandinavian German and French stations, with rain at Hernösand and Lyons. Temperature had risen a little in Norway and the NE of our Islands, but fallen elsewhere, and readings ranged from between 80° and 90° in many parts of Algeria and Southern Europe to 55° or below over the north and east of the British Islands. The highest individual readings were 90° at La Galle, 87° at Biskra, 86° at Coghiani, 85° at Laghouat, and 82° at Slat; the lowest were 50° at Sumburgh Head and Kairi, 52° at Shields, and 54° at Christiansund, Stornoway, Wick, Aberdeen, Queen Head, and York.

In the course of the day the depression over the south of Norway partially dispersed, but a new fall of the barometer set in on our extreme NW. coast, while the wind there backed to the SW<sup>2</sup>. Toward evening, however, the fall had ceased, and the wind had again returned to NW.

### 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 20<sup>th</sup> July

1887.

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.	Max. (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.		
		Inch.	°				Inch.	°	°	°	°	°				°	°	Inch.	
SCANDINAVIA.																			
Haparanda ..	29.76	58	S	6	b	29.65	-.23	58	56	-5	S	4	c	*	72	57	-		
Hernösand ...	29.82	61	SW	2	c	29.76	-.14	58	54	-4	SW	2	c	*	70	54	-		
Stockholm ...	29.57	60	S	2	b	29.89	-.14	67	59	-3	WSW	2	b	*	73	57	0.04		
Wisby ...	29.91	58	S	4	b	29.92	-.10	60	58	-4	W	2	b	*	70	57	0.12		
Bodo ...	29.60	53	ENE	2	c	29.43	-.35	52	50	-2	WSW	2	c	1	54	48	0.16		
Christiansund...	29.89	52	WSW	6	f	29.76	-.26	52	49	+1	WSW	8	f	4	55	48	0.24		
Skudesnaes ...	30.09	54	WNW	2	o	30.07	+.01	54	51	+1	?	4	o	3	59	?	-		
Christiania Fjord (Furder)	29.91	63	SSW	3	bc	29.84	-.11	61	55	+2	W	3	b	2	66	59	-		
Skagen (The Sea)	29.96	56	W	3	b	29.91	+.01	60	57	+2	WNW	7	b	4	66	54	-		
Fanö ...	30.14	56	WNW	4	c	30.15	+.10	58	57	+1	WNW	6	o	*	59	54	-		
BRITISH ISLANDS.																			
Sumburgh Head	30.02	55	W	3	o	30.06	-.05	52	49	+2	WNW	2	o	4	56	48	0.03		
Stornoway ...	30.22	61	W	4	c	30.25	+.02	56	54	-2	W	2	c	2	69	54	-		
Wick ...	30.14	65	NW	3	o	30.20	.00	56	54	-1	NW	5	o	3	70	52	-		
Nairn ...	30.20	68	WSW	2	c	30.26	+.01	60	54	+2	WNW	3	c	2	71	53	-		
Aberdeen...	30.19	66	S	1	c	30.28	+.04	60	56	0	WNW	3	c	1	71	55	-		
Leith ...	30.26	68	W	3	b	30.29	+.04	61	56	-7	NW	1	c	*	78	57	-		
Shields ...	30.25	60	ESE	2	bc	30.28	+.05	66	62	+1	NW	2	bc	3	66	57	-		
Spurn Head ...	30.29	60	ENE	3	b	30.28	+.03	63	60	+2	NNW	2	bm	3	67	56	-		
York ...	30.28	70	S	2	b	30.29	+.03	65	61	+2	WNW	1	b	*	74	53	-		
Loughborough	30.27	74	ENE	2	b	30.31	+.03	66	63	+5	W	3	c	*	78	52	-		
Ardrossan ...	30.32	65	NW	3	o	30.34	+.04	60	56	+2	WNW	3	c	2	67	55	-		
Malin Head ...	30.26	62	WNW	3	og	30.36	+.01	60	59	+1	NNW	2	om	2	63	56	-		
Mullaghmore ...	30.42	65	WNW	3	c	30.41	.00	61	61	+1	NW	2	om	2	66	59	-		
Belmullet ...	30.45	65	NNW	3	b	30.42	-.04	60	60	+1	NNW	3	od	*	67	57	0.01		
Donaghadee ...	30.37	64	NE	3	c	30.39	+.04	59	57	-2	NE	3	c	1	65	55	-		
Barrow-in-Furness	30.28	67	NW	3	b	30.31	.00	61	61	+1	NW	4	bc	*	68	59	-		
Liverpool (Bidston)	30.32	66	WNW	3	b	30.35	+.05	62	59	+4	NW	3	o	3	66	58	-		
Holyhead ...	30.36	60	NNW	1	b	30.38	+.04	62	60	+3	WNW	1	c	1	64	57	-		
Parsonstown ...	30.40	72	NW	1	bc	30.42	+.02	64	60	+3	Z	0	o	*	75	59	-		
Valencia ...	30.44	66	N	3	bc	30.45	+.02	64	62	-1	NNW	1	o	1	68	57	-		
Roche's Point...	30.38	64	W	2	bc	30.42	+.03	65	62	+2	N	1	b	1	76	59	-		
Pembroke ...	30.32	66	NNE	4	b	30.35	+.02	62	60	+2	N	3	bc	3	66	58	-		
Scilly ...	30.30	63	N	5	bc	30.31	.00	64	63	-1	NNE	4	bm	4	66	60	-		
Prawle Point ...	30.24	70	NNE	2	b	30.29	+.01	71	61	+6	NNE	3	bm	3	75	56	-		
Jersey ...	30.20	65	NNE	3	b	30.21	-.02	62	57	+1	NE	5	bm	4	70	53	-		
Hurst Castle ...	30.22	71	NE	3	b	30.30	+.02	65	60	+5	NE	2	m	1	74	51	-		
Dungeness ...	30.21	62	E	4	bc	30.26	+.02	62	59	+6	ENE	4	c	3	65	56	-		
London ...	30.22	72	E	1	b	30.29	+.02	65	58	+5	NE	1	bm	*	77	51	-		
Oxford ...	30.29	66	NE	2	b	30.32	+.04	64	61	+3	NE	2	c	*	71	54	-		
Cambridge ...	30.26	69	NE	1	b	30.29	+.03	68	59	+5	NW	1	b	*	77	52	-		
Yarmouth ...	30.27	64	NE	3	b	30.29	+.05	62	59	+2	NNE	1	b	2	66	54	-		
Cuxhaven ...	30.18	56	WNW	3	o	30.21	+.11	58	56	-1	WNW	2	o	*	60	55	-		
Berlin ...	30.12	64	WNW	3	b	30.19	+.07	59	54	-2	WNW	4	b	*	73	54	-		
Wiesbaden ...	+	*	*	*	*	30.19	+.07	63	57	-3	NW	1	b	*	75	55	-		
Munich ...	30.05	72	NE	2	b	30.12	+.04	68	63	0	NE	4	b	*	81	57	-		
FRANCE & NETHERLANDS.																			
The Helder ...	30.24	60	N	3	c	30.26	+.05	59	55	0	N	1	b	1	63	57	-		
Brussels ...	*	*	*	*	*	30.26	+.05	59	54	+2	NNE	4	b	*	68	48	-		
Cape Gris Nez...	30.22	61	ENE	5	b	30.24	-.01	61	58	+3	NE	5	c	3	66	55	-		
Paris ...	30.09	69	NNE	5	b	30.17	+.03	58	54	+2	NNE	4	bc	*	74	?	-		
Brest ...	30.22	68	E	5	b	30.19	-.07	62	56	+2	NE	7	b	3	75	55	-		
Lorient ...	30.12	67	ENE	8	b	29.97	-.22	61	55	+3	ENE	5	b	4	70	57	-		
Rochefort ...	30.04	61	NNW	4	r	30.08	+.09	61	60	+4	ENE	5	o	2	63	57	1.26		
Belfort ...	+	*	*	*	*	+	+	+	+	+	+	+	+	+	+	+	+		
Lyons ...	29.93	68	ENE	1	o	30.04	+	62	60	+	NNW	3	o	*	74	60	1.70		
Nice ...	29.90	81	NE	3	c	30.05	+.17	72	66	-8	E	4	o	3	86	66	0.91		
Perpignan ...	29.93	72	NE	3	b	30.00	+.11	69	65	+9	NE	3	b	*	73	60	-		
Biarritz ...	29.97	60	SW	4	r	30.02	+.11	60	57	0	SW	4	r	3	66	55	1.18		
Corunna ...	*	*	*	*	*	+	+	+	+	+	+	+	+	+	+	+	+		
Lisbon ...	30.05	64	NNW	8	b	30.01	-.10	65	56	0	N	7	b	3	75	59	-		

For Explanation of Columns, see p. 4. +. Received too late for mention in charts.



# WEATHER CHARTS

for 8 a.m. on

WEDNESDAY 20<sup>th</sup> July,

1887.

## 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.

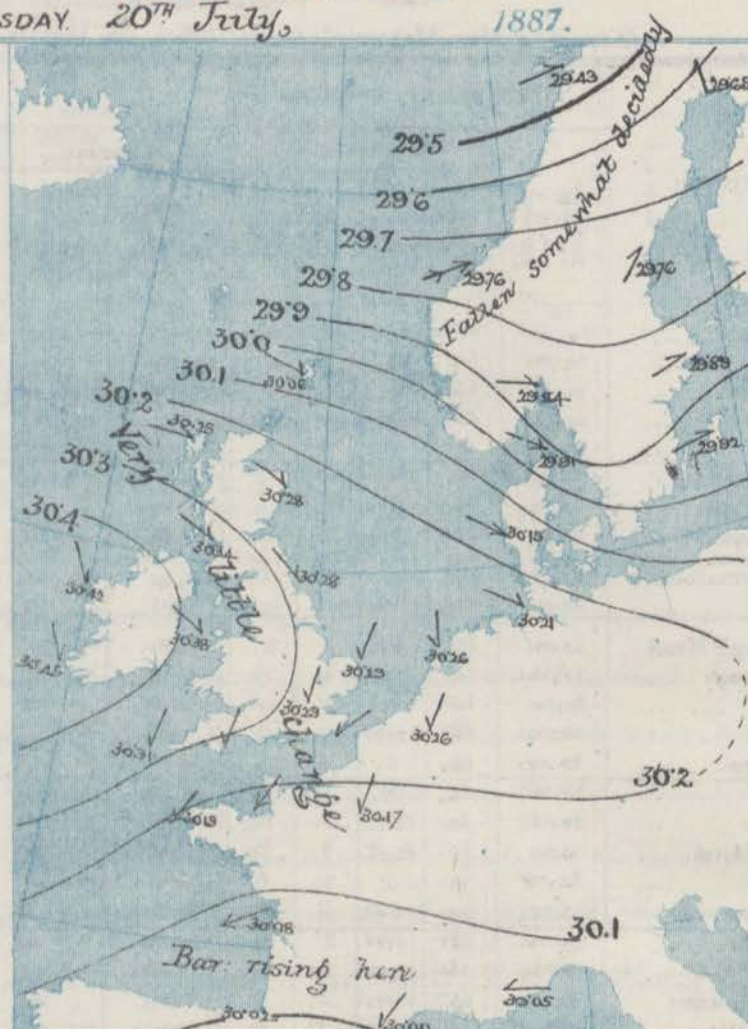
**Sea Disturbance** — where considerable is shown thus

— Rough. — High.

## MEAN HEIGHT of the BAROMETER

at 8 a.m. for the month of July.  
During the 10 Years 1871—1880.

STATIONS.	MEAN READINGS.
Sumburgh Head	29.827
Stornoway	29.799
Wick	29.813
Nairn	29.824
Aberdeen	29.829
Leith	29.848
Shields	29.873
York	29.902
Ardrossan	29.864
Donaghadee	29.878
Holyhead	30.014
Liverpool	29.910
Valencia	29.944
Roshe's Point	29.940
Pembroke	29.942
Scilly	29.986
Hurst Castle	29.961
Dover	29.959
LONDON	29.955
Oxford	29.941
Cambridge	29.937
Yarmouth	29.934



## 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.	Average	Wet.	
Sumburgh Head	57.9	48.6	53.7	52.2	2.09
Stornoway	60.3	49.7	55.4	54.8	3.02
Wick	62.4	49.4	56.2	53.9	2.25
Nairn	65.0	51.6	57.4	53.7	2.57
Aberdeen	64.4	51.7	57.9	54.4	2.74
Leith	68.0	52.0	59.1	55.9	2.84
Shields	64.6	53.6	58.8	55.5	2.03
York	68.1	52.3	59.7	56.5	2.57
Ardrossan	64.0	53.8	57.8	54.8	2.91
Donaghadee	62.9	52.0	57.7	55.9	2.67
Holyhead	64.5	55.0	58.3	56.1	2.82
Liverpool	66.4	54.6	59.8	56.1	2.99
Valencia	64.5	53.9	59.0	56.2	3.91
Roshe's Point	68.2	53.9	59.1	56.0	3.16
Pembroke	64.0	55.4	58.5	56.2	2.31
Scilly	65.0	56.9	60.3	58.2	2.29
Hurst Castle	67.9	56.4	61.7	59.2	2.15
Dover	67.4	57.5	62.0	59.2	1.82
LONDON	73.3	54.2	62.5	58.6	2.17
Oxford	69.9	53.7	60.4	57.1	2.51
Cambridge	72.5	52.8	61.3	58.0	2.30
Yarmouth	66.7	55.5	61.4	58.4	2.68

NOTE — The Temperature means are for the 10 years 1871—80, the Rainfall means are mainly those for the 10 years 1866—85.





# GENERAL SITUATION AT 8 A.M.

## PRESSURE

Highest, 30.40 ins to 30.45 ins over Ireland, 30.3 ins and more over Wales and the west of England.  
lowest, 29.4 ins at Rode, 29.7 ins at Christiansund, and about 30.00 ins at Perpignan and Lisbon.  
Gradients are slight, except in the far north. Barometer falling Scandinavia, rising in south of France.

## TEMPERATURE

Highest, 72° at Nice, 71° (locally) at Hawke Point, 69° at Perpignan, 68° at Cambridge and 65° in London and at Roches Point.  
lowest, 52° at Rode, Christiansund and Lumbagh Head, 56° at Wick and Hornsby, 58° at Paris, Copenhagen and Fanti.  
The daily range at the inland stations is large. The highest of the maxima over Great Britain yesterday varied from 70° to 73°.

## WIND

Light W<sup>ly</sup> and W<sup>ly</sup> at our northern and western stations, moderate NE<sup>ly</sup> in the south and over France.  
Strong to moderate W<sup>ly</sup> in Norway, light W<sup>ly</sup> to SE in Sweden.  
Calm over central Ireland.

## WEATHER

Cloudy in the north of Scandinavia, the Shetlands and the west of Ireland, as well as in the south of France - with rain at Bismritz.  
Fine generally elsewhere.  
[Heavy rain has again fallen in the south of France and a small quantity at the Scandinavian stations]

## SEA

Moderate in the south-west and in the far north, slight or smooth elsewhere.

## PROBABLE CHANGES IN SYSTEM NOW PREVALENT

The changes in progress are so slight that no important alteration of weather over our islands is anticipated, beyond a further rise of temperature in most places.

## FORECASTS

for the 24 hours ending at NOON on 21<sup>st</sup> July 1887.

### DISTRICTS.



### FORECASTS.

0	SCOTLAND NORTH	W <sup>ly</sup> and NW <sup>ly</sup> winds, moderate, fair.
1	SCOTLAND EAST	----- D° ----- D°
2	ENGLAND N.E.	NW <sup>ly</sup> and variable airs, fine.
3	ENGLAND EAST	Same as N° 5.
4	MIDLAND COUNTIES	Same as N° 2.
5	ENGLAND SOUTH	NE <sup>ly</sup> breezes, light or moderate, fine.

### DISTRICTS.

### FORECASTS.

6	SCOTLAND WEST	NW <sup>ly</sup> breezes, light; rather cloudy, fair.
7	ENGLAND N.W.	----- D° ----- D°
8	ENGLAND S.W.	Same as N° 5.
9	IRELAND NORTH	NW <sup>ly</sup> and N <sup>ly</sup> airs, fine in the east, dull and misty in west.
10	IRELAND SOUTH	----- D° ----- D°
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.	Ther.	Wet.	Wind.	Wca.	Sea.		Bar.	Ther.	Wet.	Wind.	Wca.	Sea.
Skudesnaes ...	30.10	58	52	WNW 4	b	3	Holyhead ...	30.35	62	58	NNW 1	b	2
Sumburgh Head ...	30.09	55	53	WSW 2	o	2	Valencia ...	30.43	68	62	NNW 4	b	4
Stornoway ...	30.10	69	63	W 4	c	4	Scilly ...	30.22	66	64	NNE 5	c	4
Aberdeen ...	30.13	64	59	S 1	o	1	Dungeness ...	30.22	65	60	E 5	bc	4
Shields ...	30.28	60	57	ENE 3	c	3	London ...	30.24	73	69	NW 2	c	*
Ardrossan ...	30.33	67	63	NW 3	o	2	Yarmouth ...	30.27	65	59	E 3	b	3
Malin Head ...	30.36	62	61	W 3	o	3	Jersey ...	30.23	69	57	NE 4	b	3
Mullaghmore ...	30.42	65	63	WNW 4	mm	3	Rochefort ...	30.03	59	59	NE 7	r	3
Belmullet ...	30.45	66	62	WNW 2	b	*							

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

The Continental reports for yesterday morning showed that while the highest pressures, 30.4 in. + up to 30.5 in., were reported over the west of Ireland and the lowest, 29.8 in. and less, over the north of Norway a small depression, with readings below 29.9 in., was lying over the Sound, and a large area of low pressure, with similar readings, over the south of France and the western part of the Mediterranean. Over Eastern and Central Europe pressure was very uniform. Moderate NW winds were reported in the north of the British Islands and fresh or strong NE winds at our southern and the French stations, but in the neighbourhood of the low pressure system the wind showed a distinct cyclonic circulation, while in other regions it was very variable.

Rain was falling at the Norwegian and the Baltic stations, and thunderstorms were reported in the south of France, but elsewhere the weather was fair or fine. Temperature had risen somewhat in our islands, but fallen in Germany and the west and south of France; elsewhere the changes were very irregular. Readings ranged from between 75° & 85° over Algeria, Austria and Southern Italy to 55° or less on the north of the British Islands and the west of Norway. The highest individual readings were 90° at Biskra, 86° at Cagliari, 82° at La Cella, Brindisi and Trieste, 81° at Lyons and 80° at Nice and Palermo; the lowest were 50° at Sumburgh Head, 51° at Christiansund, 53° at Skudesnaes, 54° at Bodø and 57° at Lari and Wick.

In the course of the day the anticyclone over the west of our islands extended slightly in an easterly direction, but no other change of importance was observed. Over Great Britain the weather remained fine, and at the eastern and Central stations the thermometer rose to between 75° and 78°.

### 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 Thursday 21<sup>st</sup> July

1887.

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

Issued by the Meteorological Office, 16, Victoria Street, London, R. H. SCOTT, Secretary.

STATIONS.	+ YESTERDAY EVENING.						8 A.M. TO DAY.										PAST 24 HOURS.		
	Barometer at 3 P.M. and Sea Level.	Temp. in Shade.	WIND.		Weather.	BAROMETER.		SHADE TEMP.			WIND.		Sea. (0 to 9.)	SHADE TEMP.		Amount of Rainfall.			
			Dir.	Force. (0 to 12.)		Reading at 8 P.M. 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.		
	Inch.	°					Inch.	Inch.	°	°	°					Inch.			
SCANDINAVIA.																			
Haparanda ..	29.57	59	SW	2	C	29.62	- .03	59	55	+ 1	SW	4	b	*	64	48	-		
Hernösand ...	29.76	59	SSW	2	C	29.81	+ .05	54	50	- 4	Z	0	o	*	75	52	0.04		
Stockholm ...	29.80	65	Z	0	O	29.75	- .14	63	55	- 4	SW	4	b	*	77	54	-		
Wisby ...	29.86	63	WSW	4	b	29.80	- .12	59	55	- 1	W	4	b	*	73	55	-		
Bodö ...	29.57	50	SW	6	r	29.60	+ .17	50	49	- 2	S	4	r	3	54	48	0.28		
Christiansund...	29.84	49	WSW	8	r	29.93	+ .17	48	45	- 4	W	8	r	5	52	45	0.51		
Skudesnaes ...	30.09	54	WNW	6	o	30.12	+ .05	54	50	0	NW	4	o	3	?	54	-		
Christiania Fjord (Færd)	29.83	65	WNW	5	b	29.92	+ .08	60	50	- 1	WNW	3	b	3	66	57	-		
Skagen (The Seaw)	29.89	57	W	5	b	29.96	+ .05	58	52	- 2	NNW	4	b	3	64	54	-		
Fanö ...	?	56	WNW	6	C	?	?	61	55	+ 3	WNW	6	bc	*	81	54	-		
BRITISH ISLANDS.																			
Sumburgh Head	30.10	51	WNW	2	o	30.13	+ .07	52	51	0	Z	0	o	1	57	47	0.01		
Stornoway ...	30.26	58	NW	4	o	30.12	- .18	57	56	+ 1	W	3	o	3	61	48	-		
Wick ...	30.28	56	NW	4	bc	30.40	- .04	59	55	+ 3	SW	2	o	0	64	50	-		
Nairn ...	30.25	65	W	2	b	30.49	- .07	59	55	- 1	W	2	C	1	69	51	-		
Aberdeen...	30.25	63	ESE	1	C	30.23	- .05	63	57	+ 3	SSW	3	b	0	68	47	-		
Leith ...	30.26	66	W	1	b	30.26	- .03	62	55	+ 1	W	1	bm	*	77	51	-		
Shields ...	30.27	60	ESE	3	b	30.24	- .04	61	57	- 5	W	2	b	2	67	50	-		
Spurn Head ...	30.28	60	ENE	3	b	30.29	+ .01	59	57	- 4	SE	3	C	2	68	57	-		
York ...	30.27	66	E	2	b	30.29	.00	62	58	- 3	SSE	1	bc	*	83	56	-		
Loughborough	30.21	74	WNW	2	b	30.28	- .03	64	60	- 2	SSE	2	C	*	88	59	-		
ARDROSSAN.																			
Ardrossan ...	30.30	64	WNW	3	b	30.26	- .08	60	56	0	Z	0	ow	0	68	51	-		
Malin Head ...	30.34	61	WNW	3	o	30.24	- .12	60	60	0	W	3	op	2	67	59	0.01		
Mullaghmore ...	30.38	63	WNW	2	cm	30.28	- .13	63	61	+ 2	SW	2	bc	2	66	59	0.02		
Belmullet ...	30.40	64	NW	2	b	30.28	- .14	60	59	0	SW	2	o	*	66	58	0.04		
Donaghadee ...	30.34	62	NNE	3	b	30.26	- .13	62	60	+ 3	S	2	o	0	65	57	-		
GERMANY.																			
Barrow-in-Furness	30.25	66	NW	3	b	30.27	- .04	60	56	- 1	NW	3	b	*	67	55	-		
Liverpool (Bidston)	30.30	65	WNW	4	b	30.28	- .07	63	60	+ 1	WNW	1	bc	2	67	58	-		
Holyhead ...	30.33	59	N	1	b	30.30	- .08	64	60	+ 2	WNW	1	bcw	1	64	55	-		
Parsonstown ...	30.36	60	NW	1	o	30.31	- .11	63	60	- 1	Z	0	o	*	71	56	-		
Valencia ...	30.37	67	N	3	bc	30.30	- .15	65	62	+ 1	Z	0	bcw	0	70	63	-		
FRANCE & NETHERLANDS.																			
Roche's Point...	30.34	66	SE	1	C	30.31	- .11	64	60	- 1	N	1	b	1	75	61	-		
Pembroke ...	30.30	65	NNE	4	b	30.26	- .09	65	62	+ 3	NNE	3	bc	2	70	55	-		
Scilly ...	30.27	64	N	4	b	30.23	- .08	65	62	+ 1	NNE	4	bc	3	67	61	-		
Prawle Point ...	30.22	71	W	2	b	30.23	- .06	67	60	- 4	NNE	3	cm	2	74	60	-		
Jersey ...	30.18	70	ENE	3	bc	30.16	- .05	63	59	+ 1	NE	3	cm	3	72	58	-		
NETHERLANDS.																			
Hurst Castle ...	30.22	66	WSW	2	bcw	30.25	- .05	64	61	- 1	E	2	bc	1	75	56	-		
Dungeness ...	30.20	63	E	5	b	30.21	- .05	61	60	- 1	E	4	C	3	66	58	-		
London ...	30.20	74	ENE	1	bc	30.26	- .03	63	58	- 2	NE	1	b	*	80	57	-		
Oxford ...	30.22	70	NNW	2	b	30.27	- .05	62	58	- 2	NE	1	o	*	77	57	-		
Cambridge ...	30.24	76	NE	1	b	30.28	- .01	64	57	- 4	E	1	b	*	82	54	-		
GERMANY.																			
Yarmouth ...	30.24	66	NNE	2	b	30.28	- .01	60	57	- 2	ENE	4	bc	3	67	56	-		
Cuxhaven ...	30.20	56	WNW	4	o	30.18	- .03	58	55	0	NNW	5	o	*	62	56	-		
Berlin ...	30.13	66	WNW	4	bc	30.15	- .04	59	56	0	NW	4	o	*	73	59	-		
Wiesbaden ...	*	*	*	*	*	30.16	- .03	64	58	+ 1	N	3	b	*	73	55	-		
Munich ...	30.15	65	SW	2	r	30.14	+ .02	68	65	0	SW	3	o	*	82	61	0.51		
FRANCE & NETHERLANDS.																			
The Helder ...	30.21	61	N	1	o	30.25	- .01	60	53	+ 1	NE	3	bc	3	66	57	-		
Brussels ...	*	*	*	*	*	30.21	- .05	62	58	+ 3	NNE	4	o	*	74	55	-		
Cape Gris Nez...	30.19	62	NE	7	b	30.20	- .04	61	60	0	NE	7	o	4	66	55	-		
Paris ...	30.11	68	NNE	3	o	30.13	- .04	61	56	+ 3	NNE	4	C	*	72	58	-		
Brest ...	30.20	68	E	7	b	30.18	- .01	62	58	0	NE	5	bc	3	75	54	-		
NETHERLANDS.																			
Lorient ...	30.15	66	NNE	5	C	30.12	+ .15	61	57	0	ESE	3	C	2	72	57	-		
Rochefort ...	30.04	69	NE	5	o	30.07	- .01	63	63	+ 2	E	4	bc	2	75	59	0.67		
Belfort ...	29.65	70	NE	3	C	30.12		66	62		NE	3	o		73	55	-		
Lyons ...																			
Nice ...																			
FRANCE & NETHERLANDS.																			
Perpignan ...	30.08	73	Z	0	o	30.10	+ .05	65	61	- 7	NE	3	r	2	81	59	0.28		
Biarritz ...	29.98	74	E	3	bc	30.04	+ .04	69	64	0	SE	3	bc	*	77	61	-		
GERMANY.																			
Corunna ...	+	*	*	*	*	30.14	- .03	65	63	- 1	N	4	C	4	72	50	-		
Lisbon ...	29.93	71	NNW	8	b	29.93	- .08	71	59	+ 6	NNE	7	b	2	79	?	-		

For Explanation of Columns, see p. 4. + Received too late for insertion in chart.



# WEATHER CHARTS

for 8 a.m. on

Thursday, 21<sup>st</sup> July,

1887.

## BAROMETER, WIND & SEA.

(Explanation of Map)

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

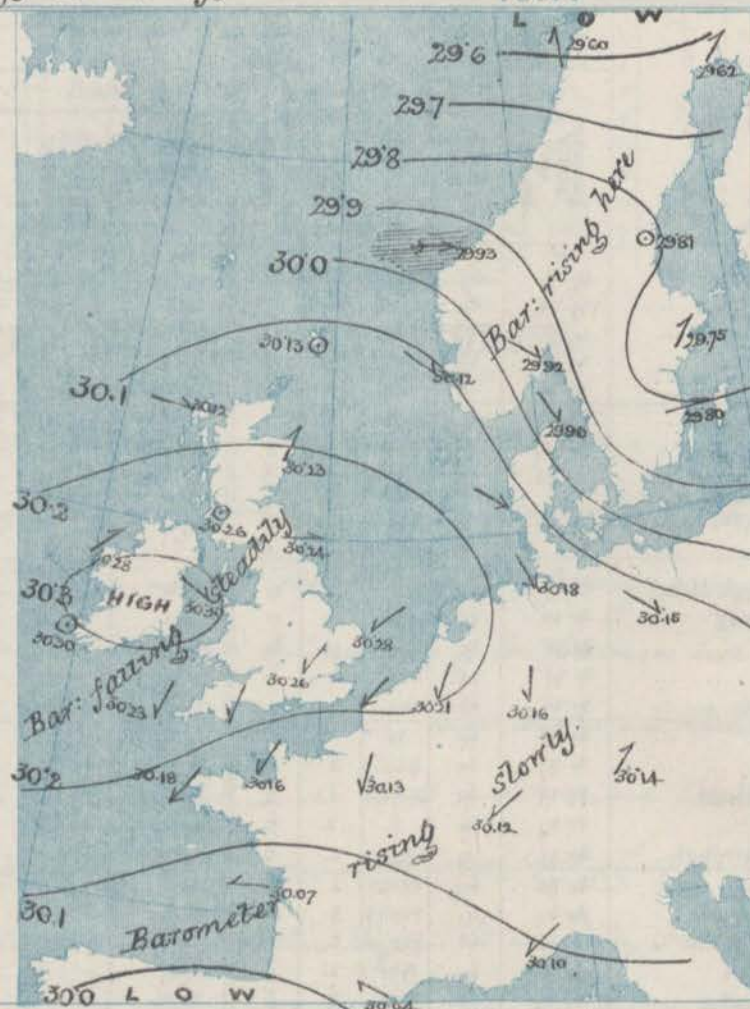
**Sea Disturbance** — where considerable is shown thus

■ = Rough. ■ = High.

## MEAN HEIGHT of the BAROMETER

at 8 a.m. for the month of July.  
 During the 10 Years 1871—1880.

STATIONS.	MEAN READINGS.
	in.
Sumburgh Head	29.827
Stornoway	29.799
Wick	29.813
Nairn	29.824
Aberdeen	29.829
Leith	29.848
Shields	29.873
York	29.902
Ardrossan	29.864
Donaghadee	29.878
Holyhead	29.914
Liverpool	29.910
Valencia	29.944
Roche's Point	29.940
Pembroke	29.942
Scilly	29.986
Hurst Castle	29.961
Dover	29.959
LONDON	29.955
Oxford	29.941
Cambridge	29.937
Yarmouth	29.934





# GENERAL SITUATION AT 8 A.M.

## PRESSURE

Highest, 30.3 ins. and more over Great Britain and the Irish Sea, 30.2 ins. and more over nearly the whole of the British Islands and Holland.  
Lowest, 29.9 ins. over the south of Spain, 29.6 ins. over the extreme north of Scandinavia.  
Gradients slight except in Denmark and the south of Sweden. Barometer falling over the United Kingdom, most in the west.

## TEMPERATURE

Highest, 71° at Lisbon, 69° at Perpignan, 68° at Munich and 65° at Pembroke and Valencia.  
Lowest, 48° at Christiansund, 50° at Bordeaux, 52° at Limerick Head, 58° at Copenhagen and 59° at Berlin.  
The highest of the maxima over England yesterday varied from 80° to 83°.

## WIND

W. moderate to a gale in Norway; W. fresh in Denmark; S.W. light on our north-western coasts.  
N.E. light to moderate in the south and over the Bay of Biscay.  
Light and variable elsewhere.

## WEATHER

Raining again in Norway and also at Riga - dull in North Germany and the western parts of Ireland and Scotland.  
Fine and bright elsewhere.

## SEA

Rather rough at Christiansund, slight to dead calm elsewhere.  
At Bournemouth it is slight, and at Holyhead very smooth.

## PROBABLE CHANGES IN SYSTEM NOW PREVALENT

The anticyclone appears to be moving very slowly to the south-eastward. Warmer weather is therefore likely in our islands, followed by rain in the far west.

## FORECASTS

for the 24 hours ending at NOON on 22<sup>nd</sup> July 1887.

### DISTRICTS.



### FORECASTS.

0	SCOTLAND NORTH	SW <sup>ly</sup> winds, freshening; some rain.
1	SCOTLAND EAST	Variable and SW <sup>ly</sup> breezes; fine.
2	ENGLAND N.E.	----- D° ----- D° -----
3	ENGLAND EAST	Same as N° 5.
4	MIDLAND COUNTIES	S <sup>ly</sup> and SW <sup>ly</sup> breezes, light to moderate; fine, very warm.
5	ENGLAND SOUTH	E <sup>ly</sup> winds lulling and veering S <sup>ds</sup> ; fine very warm.

### DISTRICTS.

### FORECASTS.

6	SCOTLAND WEST	Same as N° 0.
7	ENGLAND N.W.	SW <sup>ly</sup> breezes, moderate; fine to cloudy.
8	ENGLAND S.W.	Same as N° 5.
9	IRELAND NORTH	S <sup>ly</sup> and SW <sup>ly</sup> winds, freshening; showers at the more western stations.
10	IRELAND SOUTH	----- D° ----- D° -----
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.		
Skudeanase ...	30.09	59	51	NW	6	0	3	Holyhead ...	30.36	62	59	N	1	b	1
Sumburgh Head ...	30.09	55	51	W	3	c	4	Valencia ...	30.40	70	64	NNW	3	bc	2
Stornoway ...	30.27	59	55	W	3	0	3	Scilly ...	30.31	67	64	NNE	5	bc	4
Aberdeen ...	30.24	66	59	S	4	bc	1	Dungeness ...	30.24	65	62	ENE	5	c	3
Shields ...	30.29	61	58	E	2	b	3	London ...	30.24	75	64	ENE	2	bc	*
Ardrossan ...	30.32	67	61	WNN	4	b	3	Yarmouth ...	30.27	66	61	ESE	2	bc	2
Malin Head ...	30.36	63	63	NW	2	0	3	Jersey ...	30.22	70	63	NE	4	b	3
Mullaghmore ...	30.40	64	61	WNW	3	0	2	Rocheport ...	30.08	72	69	N	5	0	2
Belmullet ...	30.42	63	61	WNW	2	0	*								

## GENERAL REMARKS ON THE WEATHER OVER EUROPE

DURING THE PAST 24 HOURS.

The Continental reports for yesterday morning showed that pressure was still highest (30.4 ins. and upwards) over the extreme west of our Islands, the lowest readings, 29.5 ins. and less, being found in a depression which lay over the northwest of Norway. Relatively low pressures 30.0 ins. and less, were however reported over Southern Europe. The wind was moderate from W. or NW. in the north of the British Isles, and strong from the same quarters in Norway, and Denmark, with a W. gale at Christiansund. On our southern and the French coast, however, it drew into NE. while over Central and Southern Europe light variable breezes were reported. The weather was dull at most of the northern stations, as well as over the southern parts of France, with rain at Riga, and also at Nantes, Biarritz, and Borne; elsewhere, however, conditions were fine and bright. Temperature had fallen a little in Northern Europe, but risen elsewhere; readings ranged from between 45° and 55° over Algeria, Italy, and the southern part of Austria and Spain to 55° or below over Norway and the north of Scotland. The highest individual readings were 85° at Trieste, 84° at Biskra, 81° at La Galle, Sfax, Lesina, Livourne, Brindisi, Cagliari, and Malta, and 80° at Naples and Palermo; the lowest were 52° at Rodo, Christiansund, and Sumburgh Hd., 54° at Skudeanase, 56° at Stornoway and Wick, and 57° at Munster, St. Petersburg, and Riga.

In the course of the day very little change occurred either in pressure, wind, and weather. The weather remained very fine over England, and temperature rose to 80° in London, 82° at Cambridge, and 83° at York and 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.

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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 9.)	SHADE TEMP.		Amount of Rainfall.	
			Dir.	Force. (0 to 12.)		Reading at 8 A.M. and Sea Level.	Difference from 8 A.M. yesterday.	Dry.	Wet.	Difference from 8 A.M. yesterday.	Dir.	Force. (0 to 12.)			Max.	Min.		
SCANDINAVIA.																		
Haparanda ..	29.66	59	Z	0	bc	29.70	+ .08	61	55	+ 2	N	2	bc	*	63	57	—	
Hernösand ...	29.86	56	NW	4	b	29.91	+ .10	54	47	—	NW	4	bc	*	66	50	—	
Stockholm ...	29.94	54	NW	2	b	30.04	+ .19	56	50	—	NNW	2	bc	*	68	52	0.08	
Wisby ...	29.84	58	NW	4	bc	29.99	+ .19	59	53	0	NNW	4	bc	*	68	54	—	
Bodö ...	29.81	48	N	6	r	29.89	+ .29	48	46	—	E	4	c	2	50	45	0.28	
Christiansund...	30.04	50	WSW	5	c	29.85	— .08	51	47	+ 3	ESE	4	r	3	52	45	0.28	
Skudesnaes ...	30.14	64	WNW	2	o	30.00	— .12	56	51	+ 2	SE	6	o	4	59	54	—	
Christiania Fjord (Furder)	29.98	68	WSW	2	b	30.02	+ .10	61	55	+ 1	Z	0	bc	2	66	57	—	
Skagen (The Sow)	30.01	56	WNW	1	b	30.04	+ .08	60	56	+ 2	W	1	bc	1	66	54	—	
Faao ...	30.18	55	NW	4	b	30.15	?	65	60	+ 4	WNW	2	bc	*	?	50	—	
BRITISH ISLANDS.																		
Sumburgh Head	30.01	52	SSW	1	r	29.75	— .38	55	55	+ 3	W	2	r	2	57	50	0.40	
Stornoway ...	29.97	60	SW	5	fdr	29.80	— .32	55	54	—	SW	4	c	4	61	54	0.34	
Wick ...	30.01	58	SW	1	o	29.78	— .38	59	56	0	NW	2	o	0	61	51	0.11	
Nairn ...	30.05	65	W	2	c	29.83	— .36	60	59	+ 1	WNW	2	o	2	70	58	0.02	
Aberdeen...	30.07	64	S	3	bc	29.88	— .35	61	59	—	SW	3	r	1	65	57	0.04	
Leith ...	30.13	67	W	1	b	29.94	— .32	65	59	+ 3	W	2	o	*	74	60	—	
Shields ...	30.15	64	E	2	bm	30.01	— .23	62	58	+ 1	SW	1	cm	2	68	52	—	
Spurn Head ...	30.21	62	ESE	5	b	30.09	— .20	64	61	+ 5	S	3	bc	2	65	55	—	
York ...	30.19	73	W	2	bc	30.07	— .22	61	56	—	S	1	bc	*	77	52	—	
Loughborough	30.18	78	ESE	2	b	30.09	— .19	67	61	+ 3	ESE	1	bc	*	81	51	—	
Ardrossan ...	30.15	61	SSW	3	o	29.96	— .30	58	58	—	SSW	4	op	3	63	51	0.04	
Malin Head ...	30.11	61	W	3	o	29.97	— .27	59	59	—	W	4	agg	3	64	50	0.12	
Mullaghmore ...	30.16	66	W	2	c	30.04	— .24	61	57	—	WNW	4	cm	4	67	58	0.16	
Belmullet ...	30.17	68	WSW	3	o	30.09	— .19	58	54	—	W	4	bc	*	67	57	0.22	
Donaghadee ...	30.18	64	SSW	3	o	30.01	— .25	62	60	0	SSW	4	c	2	66	58	—	
GERMANY.																		
Barrow-in-Furness	30.17	64	NW	2	b	30.07	— .20	58	57	—	WNW	1	o	*	66	55	—	
Liverpool (Bidston)	30.10	67	NW	1	o	30.08	— .20	65	59	+ 2	WNW	1	bc	2	70	57	—	
Holyhead ...	30.21	62	Z	0	bc	30.09	— .21	62	60	—	SSW	2	bc	1	66	56	—	
Parsonstown ...	30.17	71	W	1	o	30.07	— .24	63	62	0	W	1	og	*	74	58	—	
Valencia ...	30.23	63	WNW	2	c	30.14	— .16	62	61	—	NNW	3	cm	3	70	59	0.04	
FRANCE & NETHERLANDS.																		
Roche's Point...	30.22	67	SW	2	b	30.13	— .18	62	60	—	Z	0	c	0	69	55	—	
Pembroke ...	30.19	68	NNE	2	b	30.13	— .13	61	61	—	WNW	2	cg	1	72	56	—	
Seilly ...	30.20	65	NE	2	c	30.15	— .08	64	62	—	WNW	1	c	3	70	59	—	
Prawle Point ...	30.20	63	E	1	b	30.11	— .12	69	63	+ 2	ENE	1	bm	0	72	56	—	
Jersey ...	30.15	66	ENE	3	cm	30.09	— .07	67	61	+ 4	NNE	3	bm	3	70	57	—	
PENINSULA.																		
Hurst Castle ...	30.18	70	ENE	2	b	30.11	— .14	64	60	0	Z	0	bm	0	74	51	—	
Dungeness ...	30.18	63	ENE	5	b	30.06	— .15	64	61	+ 3	ENE	4	bc	3	67	59	—	
London ...	30.21	67	E	2	b	30.11	— .15	59	57	—	S	1	bm	*	75	52	—	
Oxford ...	30.17	69	NE	1	b	30.10	— .17	63	59	+ 1	SE	1	bc	*	77	48	—	
Cambridge ...	30.23	70	E	1	b	30.10	— .18	61	58	—	SE	1	b	*	77	46	—	
Yarmouth ...	30.26	63	E	3	b	30.12	— .16	62	59	+ 2	SE	2	bc	2	65	58	—	
Cuxhaven ...	30.24	57	NNW	3	o	30.20	+ .02	61	58	+ 3	N	1	c	*	61	57	—	
Berlin ...	30.18	62	WNW	3	b	30.21	+ .06	59	53	0	NW	2	bc	*	68	54	—	
Wiesbaden ...	*	*	*	*	*	30.19	+ .03	65	58	+ 1	NE	2	bc	*	68	57	—	
Munich ...	30.18	66	Z	0	b	30.18	+ .04	62	62	—	NE	3	m	*	72	55	—	
PENINSULA.																		
The Helder ...	30.24	62	ENE	3	b	30.15	— .10	62	57	+ 2	ESE	1	bc	2	64	55	—	
Brussels ...	*	*	*	*	*	30.07	— .14	59	56	—	ENE	1	bc	*	74	54	—	
Cape Gris Nez...	30.17	63	NE	7	b	30.04	— .16	61	59	0	E	4	bc	2	68	55	—	
Paris ...	30.08	75	NE	3	bc	30.07	— .06	65	64	+ 4	E	1	bc	*	77	?	0.16	
Brest ...	30.14	72	E	5	b	30.16	— .02	61	?	—	N	1	bc	1	75	54	—	
Lorient ...	30.15	66	ENE	4	o	30.10	— .02	60	57	—	NNE	3	c	2	68	57	—	
Rocheport ...	30.09	67	NW	3	c	30.10	+ .03	64	63	+ 1	SW	4	c	2	77	59	0.08	
Belfort ...	30.08	74	NE	4	o	30.09	— .03	67	66	+ 1	NNE	1	bc	*	78	61	0.47	
Lyons ...	30.00	73	ESE	1	c	30.07	— .01	68	66	—	SSE	1	o	*	81	64	—	
Nice ...	30.02	77	SW	1	b	30.09	— .01	72	62	+ 7	E	4	o	2	84	?	0.08	
Perpignan ...	30.00	72	?	3	b	30.06	+ .02	72	67	+ 3	W	4	bc	*	77	62	0.04	
Biarritz ...	30.04	66	W	5	r	30.10	— .02	64	60	—	SSW	4	c	2	72	61	0.16	
PENINSULA.																		
Corunna ...	*	*	*	*	*	30.22	+ .08	68	64	+ 3	NNE	5	bc	4	72	59	—	
Lisbon ...	29.86	77	NNW	8	b	29.91	— .02	77	60	+ 6	NNE	5	bc	4	86	70	—	

For Explanation of Columns, see p. 4.



# WEATHER CHARTS

for 8 a.m. on Friday, 22<sup>nd</sup> July, 1887.

## 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.

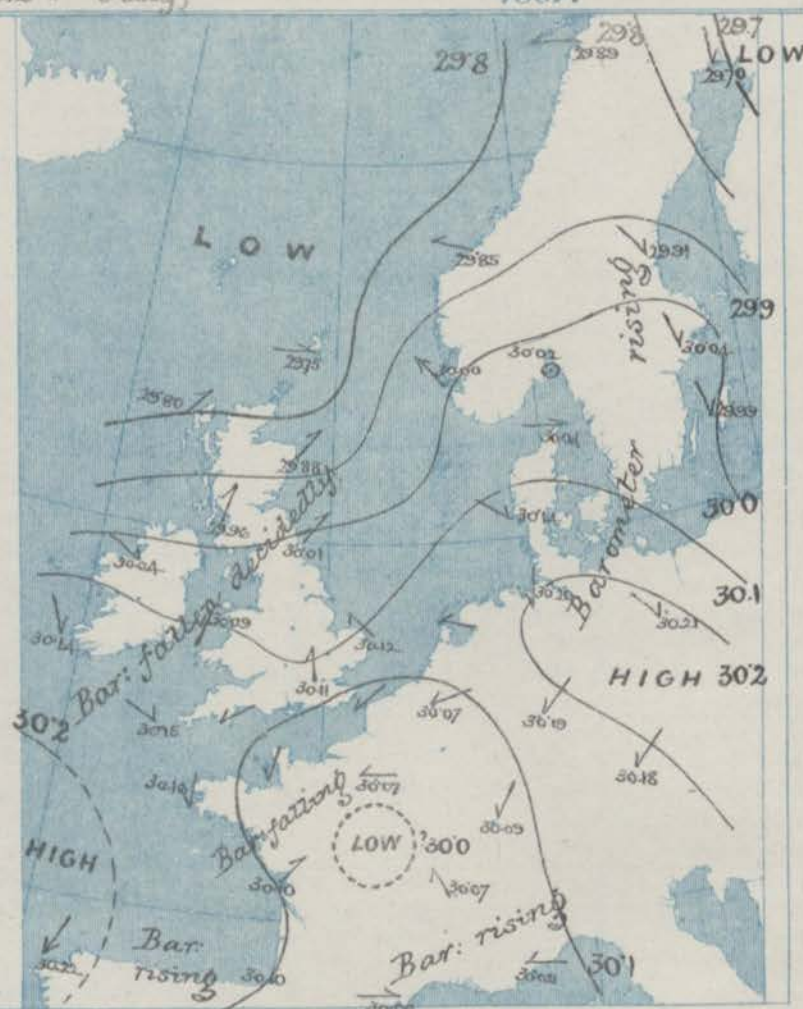
**Sea Disturbance** — where considerable is shown thus

■ = Rough. ■ = High.

## MEAN HEIGHT of the BAROMETER

at 8 a.m. for the month of July.  
During the 10 Years 1871—1880.

STATIONS.	MEAN READINGS.
	in.
Sumburgh Head	29.827
Stornoway	29.790
Wick	29.813
Nairn	29.824
Aberdeen	29.829
Leith	29.848
Shields	29.873
York	29.902
Ardrossan	29.864
Donaghadee	29.878
Holyhead	29.914
Liverpool	29.910
Valencia	29.944
Roche's Point	29.940
Pembroke	29.942
Scilly	29.986
Hurst Castle	29.961
Dover	29.959
LONDON	29.955
Oxford	29.941
Cambridge	29.987
Yarmouth	29.934



## 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.

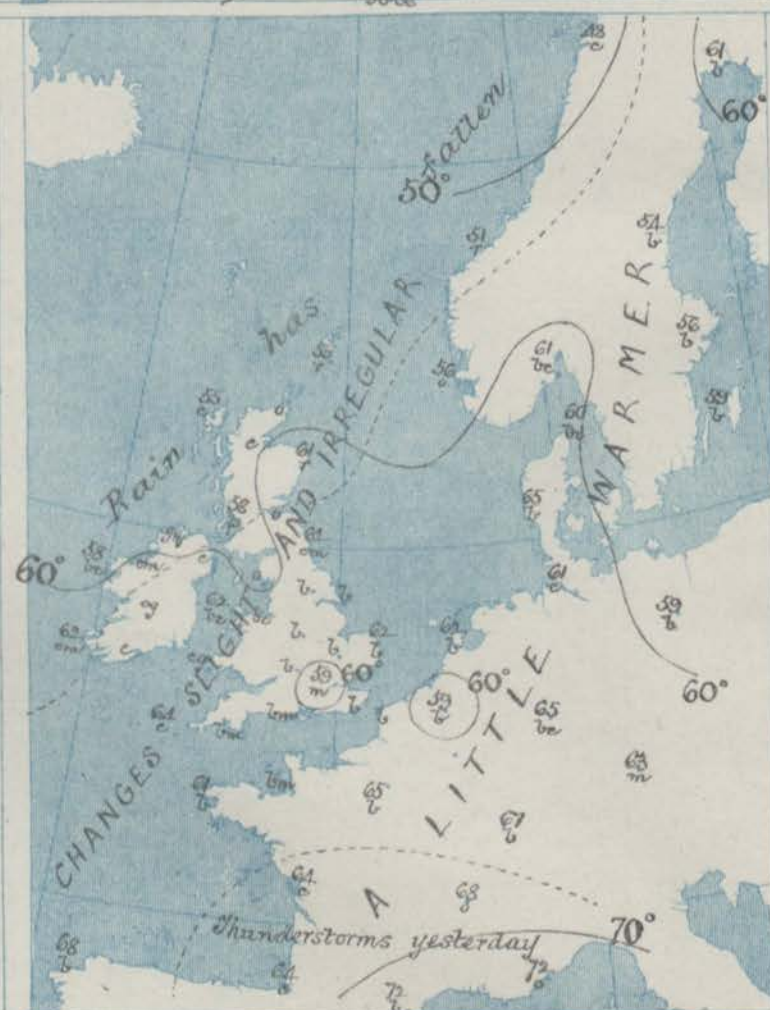
**Rainfall** — A dotted line separates the districts in which rain has fallen from those where there has been none. Falls of 0.5 in. or more, are quoted in figures.

## 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	57.9	48.5	53.7	52.2	2.09
Stornoway	60.3	49.7	56.4	54.3	3.02
Wick	62.4	49.4	56.2	53.9	2.25
Nairn	65.0	51.6	57.4	53.7	2.57
Aberdeen	64.4	51.7	57.9	54.4	2.74
Leith	68.0	52.0	59.1	55.9	2.84
Shields	64.6	53.6	58.8	55.5	2.63
York	68.1	52.3	59.7	56.5	2.57
Ardrossan	64.0	53.8	57.8	54.8	2.91
Donaghadee	62.9	52.0	57.7	55.9	2.87
Holyhead	64.5	55.0	58.3	56.1	2.32
Liverpool	66.4	54.6	59.8	56.1	2.90
Valencia	64.5	53.9	59.0	56.2	3.91
Roche's Point	68.2	53.9	59.1	56.0	3.16
Pembroke	64.0	55.4	58.5	56.2	2.31
Scilly	65.0	56.9	60.3	58.2	2.29
Hurst Castle	67.9	56.4	61.7	59.2	2.15
Dover	67.4	57.5	63.0	59.2	1.82
LONDON	73.3	54.2	62.5	58.6	2.17
Oxford	69.9	53.7	60.4	57.1	2.51
Cambridge	72.5	52.8	61.3	58.0	2.30
Yarmouth	66.7	55.5	61.4	58.4	2.68

NOTE — The Temperature means are for the 10 years 1871—80, the Rainfall means are mainly those for the 10 years 1866—85.





# GENERAL SITUATION AT 8 A.M.

PRESSURE	Highest, 30.2 ins and more at Corunna and apparently over the Bay of Biscay, as well as over Germany and South-eastern Europe. Lowest, 29.8 ins and less off our extreme northern coasts, 30.0 ins over Central France, and 29.9 ins over the south of Spain. Gradients, moderate in the north, slight elsewhere and very irregular. Barometer falling in our islands, rising both over Southern and Northern Europe.
TEMPERATURE	Highest, 77° at Lisbon, 72° at Perpignan and Nice, 69° at Brank Point, 68° at Corunna and Lyons. Lowest, 48° at Rods, 51° at Chirkensund, 55° at Hornum, 58° at Baven-in-Tannes and 59° at Brussels and Berlin. It is changing rather irregularly and fitfully.
WIND	N. and S.W. in Ireland and Scotland. S.E. in Norway. W. in Sweden, Denmark and Germany—very variable over England and France. There is a complete cyclonic circulation of light winds over France.
WEATHER	Cloudy in the south of France, in Ireland, the north-east of Scotland and west of Norway, with rain locally, and at some stations thunder. Fine over the greater part of England, France and Germany, with local fogs, and heavy dew at inland stations. Thunderstorms again occurred in the south of France yesterday.
SEA	Moderate at Farder, Hornum and Mullaghmore, slight or smooth elsewhere.



## PROBABLE CHANGES IN SYSTEM NOW PREVALENT

The distribution of pressure is of a less settled type than of late, and is favourable for the formation of local thunderstorms and showers, especially over the northern parts of our area and France.

## FORECASTS

For the 24 hours ending at NOON on 23<sup>rd</sup> July 1887.

DISTRICTS.	FORECASTS.	DISTRICTS.	FORECASTS.
0 SCOTLAND NORTH	SW <sup>ly</sup> winds, light or moderate, changeable, some rain.	6 SCOTLAND WEST	Same as N° 0.
1 SCOTLAND EAST	— D° — D° —	7 ENGLAND N. W.	SW <sup>ly</sup> and W <sup>ly</sup> winds, light, fair to unsettled, and some rain.
2 ENGLAND N. E.	Same as N° 5.	8 ENGLAND S. W.	Variable or W <sup>ly</sup> airs, cloudy, some rain, thunder locally.
3 ENGLAND EAST	Same as N° 5.	9 IRELAND NORTH	W <sup>ly</sup> and SW <sup>ly</sup> winds, moderate, changeable, some showers.
4 MIDLAND COUNTIES	Same as N° 5.	10 IRELAND SOUTH	— D° — D° —
5 ENGLAND SOUTH	SW <sup>ly</sup> and S <sup>ly</sup> winds, light, fine and warm at first, less settled later, perhaps thunder.	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.		
Skudeanæs ...	30.15	58	51	WNW	6	c	3	Holyhead ...	30.25	64	60	WNW	1	6	1
Sumburgh Head ...	30.08	53	52	SW	1	r	1	Valencia ...	30.28	65	62	WSW	3	0	3
Stornoway ...	30.05	60	59	SW	4	m	4	Scilly ...	30.22	66	63	NE	2	c	3
Aberdeen ...	30.15	64	59	S	6	bc	1	Dungeness ...	30.21	66	61	ENE	5	bc	4
Shields ...	30.19	62	59	E	2	bm	2	London ...	30.24	72	61	ENE	2	6	*
Ardrossan ...	30.22	62	60	SSW	3	c	2	Yarmouth ...	30.28	64	58	E	3	6	2
Malin Head ...	30.19	62	62	W	2	0	2	Jersey ...	30.18	70	65	ENE	4	6	3
Mullaghmore ...	30.12	66	62	WNW	2	0	2	Rochefort ...	30.11	72	67	NW	4	bc	2
Belmullet ...	30.23	64	61	WSW	3	0	*								

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

The reports for yesterday morning showed that while the highest pressures of all (30.3 ins. and upwards) were still lying over Ireland, a large anticyclone, with readings above 30.2 ins., covered nearly the whole of the British Isles and also the Netherlands. The lowest readings, 29.6 ins. and less, existed off the south of Spain. Moderate breezes from S. or SW. prevailed over the Baltic, Finland, and the north of Scandinavia, and fresh breezes from W. or NW. over the north of our Islands and the eastern shores of the North Sea. Over the south of England and north of France, however, the wind was E<sup>ly</sup> or NE<sup>ly</sup>, while over Southern Europe it was very light and variable. Rain was falling in the NW. of Norway as well as at several of the German and French stations, and dull weather was reported in many parts of Central and Southern Europe. Over our Islands, however, conditions remained fine. Temperature has fallen a little in Austria, Russia, and North Germany, but elsewhere the changes were slight and irregular; readings ranged from between 75° and 85° over Algeria, Italy, Southern Austria, and the Spanish Peninsula to 55° or less in Scandinavia and the extreme north of our Islands. The highest individual readings were 88° at Cagliari, 87° at La Galle and Trieste, 82° at Naples, Brindisi, and Malta, and 81° at Tunis, Tifz, and Trieste; the lowest were 48° at Christiansund, 50° at Rode, 52° at Lumburgh Ht., and 54° at Hunsand and Skudeenæs.

In the course of the day the barometer fell, in all parts of our Islands, and the anticyclone became less clearly defined. Unsettled rainy weather set in on our extreme N. and NW. coasts, but over England conditions remained fine, and temperature rose to a maximum of 77° at York, Oxford, and Cambridge, and 81° 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 8 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 23<sup>rd</sup> July

1887.

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.	Sun. (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 ..	29.75	57	N	2	b	29.74	+ .04	63	57	+ 2	Z	0	b	*	70	55	—	
Hernösand ...	29.82	58	SSW	2	o	29.73	— .18	58	56	+ 4	SW	2	c	*	77	46	—	
Stockholm ...	29.92	61	SSW	2	bc	29.86	— .18	63	57	+ 7	SW	2	o	*	70	46	—	
Wisby ...	29.94	61	SW	4	b	29.91	— .08	63	59	+ 4	WSW	4	b	*	70	55	—	
Bodö ...	29.75	55	NNE	2	b	29.64	— .25	52	51	+ 4	E	2	r	1	54	46	0.21	
Christiansund...	29.70	54	ESE	1	o	29.67	— .18	53	53	+ 4	SE	1	r	2	59	50	0.32	
Skudesnaes ...	29.85	57	SW	6	f	29.87	— .12	59	55	+ 3	WSW	2	o	3	59	55	—	
Christiania Fjord (Fjorder)	29.84	60	SW	8	o	29.80	— .22	61	58	0	WSW	5	bc	4	63	57	—	
Skagen (The Scaw)	29.94	58	W	1	o	29.86	— .18	58	56	— 2	W	1	c	1	66	54	0.08	
Fanö ...	30.00	61	N	1	b	29.93	— .22	68	62	+ 3	WNW	2	b	*	7	55	—	
BRITISH ISLANDS.																		
Sumburgh Head	29.72	56	WSW	3	b	29.73	— .02	53	51	— 2	WSW	3	r	3	59	49	0.17	
Stornoway ...	29.83	57	W	4	c	29.86	+ .06	56	53	+ 1	W	5	c	5	60	50	0.18	
Wick ...	29.83	59	NW	3	bc	29.85	+ .07	58	55	— 1	NW	3	o	0	65	50	—	
Nairn ...	29.89	60	WNW	2	c	29.90	+ .07	59	57	— 1	SW	2	b	1	67	53	—	
Aberdeen...	29.86	69	WNW	4	b	29.93	+ .05	65	60	+ 4	W	2	b	0	74	49	—	
Leith ...	29.95	66	W	5	bc	29.99	+ .05	59	55	— 6	W	4	c	*	71	53	—	
Shields ...	29.94	70	W	3	bc	30.07	+ .06	59	55	— 3	SW	2	o	2	73	50	—	
Spurn Head ...	29.97	64	SSE	3	bc	30.12	+ .03	60	58	— 4	WNW	4	b	2	67	55	—	
York ...	29.99	66	WNW	1	o	30.12	+ .05	61	55	0	W	3	b	*	79	49	—	
Loughborough	29.99	72	W	3	c	30.16	+ .07	64	58	— 3	WNW	2	c	*	81	52	—	
GERMANY.																		
Ardrossan ...	30.00	60	WNW	4	b	30.04	+ .08	56	56	— 2	SW	2	opd	2	67	54	0.02	
Malin Head ...	30.02	59	W	4	o	30.03	+ .06	57	57	— 2	W	3	opg	3	62	55	0.03	
Mullaghmore ...	30.10	62	W	6	bc	30.11	+ .07	57	55	— 4	WSW	5	op	4	64	55	0.06	
Belmullet ...	30.13	60	WNW	4	c	30.12	+ .03	60	55	+ 2	SW	2	o	*	63	58	—	
Donaghadee ...	30.06	60	N	1	c	30.12	+ .11	58	55	— 4	WSW	2	c	1	69	54	—	
FRANCE & NETHERLANDS.																		
Barrow-in-Furness	30.03	62	NW	3	b	30.12	+ .05	59	55	+ 1	WNW	4	bc	*	65	56	0.06	
Liverpool (Bilston)	30.05	61	W	2	o	30.15	+ .07	61	54	— 4	WNW	3	bc	3	71	55	0.04	
Holyhead ...	30.08	61	NNN	1	b	30.17	+ .08	66	59	+ 4	W	2	bc	1	66	53	0.17	
Parsonstown ...	30.14	63	NW	1	bc	30.17	+ .10	62	56	— 1	Z	0	c	*	70	49	—	
Valencia ...	30.20	63	NNW	2	o	30.17	+ .03	62	56	0	S	2	o	3	67	57	—	
PENIN. SULA.																		
Roche's Point...	30.13	68	NNW	3	b	30.18	+ .05	62	56	0	S	1	c	1	71	55	—	
Pembroke ...	30.10	63	W	2	bc	30.20	+ .07	60	58	— 1	ENE	1	c	0	67	55	—	
Scilly ...	30.15	66	W	2	c	30.21	+ .06	63	61	— 1	NNW	1	c	5	69	59	—	
Prawle Point ...	30.07	70	WNW	4	b	30.25	+ .14	67	62	— 2	Z	0	b	0	77	55	—	
Jersey ...	30.11	65	WNW	3	bc	30.20	+ .11	62	61	— 5	NW	3	f	3	74	59	—	
Hurst Castle ...	30.02	73	WNW	4	bc	30.19	+ .08	66	62	+ 2	WSW	1	b	1	75	55	—	
Dungeness ...	30.00	63	SW	3	bc	30.12	+ .06	64	60	0	N	3	bc	2	69	58	—	
London ...	29.96	75	E	1	cf	30.17	+ .06	66	56	+ 7	NW	2	b	*	79	58	—	
Oxford ...	30.01	71	NW	2	b	30.18	+ .06	63	58	0	NW	1	b	*	80	55	—	
Cambridge ...	29.98	76	N	1	c	30.15	+ .05	66	56	+ 5	NW	1	b	*	84	53	—	
Yarmouth ...	30.00	65	SE	1	b	30.12	— .00	63	56	+ 1	NW	3	b	3	69	57	—	
Cuxhaven ...	30.04	62	NE	2	b	29.95	— .25	66	62	+ 5	N	1	b	*	67	61	—	
Berlin ...	30.01	68	SE	1	b	29.88	— .33	57	56	— 2	NNW	3	o	*	75	57	0.16	
Wiesbaden ...	*	*	*	*	*	30.06	— .13	66	63	+ 1	SW	3	o	*	81	61	0.24	
Munich ...	30.09	62	NW	1	r	30.15	— .03	66	60	+ 3	W	5	o	*	79	59	0.24	
FRANCE & NETHERLANDS.																		
The Helder ...	29.96	65	NNE	1	c	30.02	— .13	62	60	0	NNW	3	c	3	73	61	—	
Brussels ...	*	*	*	*	*	30.05	— .02	61	58	+ 2	W	3	c	*	76	56	—	
Cape Gris Nez...	30.00	63	NE	1	b	30.12	+ .08	63	61	+ 2	N	4	o	2	70	55	—	
Paris ...	30.02	68	SW	1	bc	30.17	+ .10	61	59	— 4	W	1	o	*	79	55	0.24	
Brest ...	30.18	63	NW	4	b	30.26	+ .10	60	59	— 1	NW	3	c	3	77	54	—	
Lorient ...	30.14	71	NNW	3	c	30.23	+ .13	61	59	+ 1	N	1	o	2	79	57	—	
Rochefort ...	30.16	66	NW	4	b	30.16	+ .16	64	63	0	E	3	b	1	79	57	—	
Belfort ...	30.05	70	NE	1	bc	30.19	+ .10	61	60	— 6	SSW	3	o	*	77	54	0.23	
Lyons ...	30.07	71	NNE	1	bc	30.22	+ .15	65	59	— 3	NNW	1	b	*	82	60	0.04	
Nice ...	30.06	79	E	3	o	29.97	— .12	79	65	+ 7	Z	0	b	1	86	72	—	
Perpignan ...	30.05	78	NW	4	o	30.15	+ .09	72	65	0	NW	4	b	*	88	64	—	
Biarritz ...	30.18	70	NW	4	b	30.23	+ .13	69	65	+ 5	SW	1	o	0	72	64	—	
FRANCE & NETHERLANDS.																		
Corunna ...	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
Lisbon ...	29.96	82	SW	1	b	29.99	+ .08	78	62	+ 1	NE	1	b	2	90	73	—	

For Explanation of Columns, see p. 4.



# WEATHER CHARTS

for 8 a.m. on Saturday, 23<sup>rd</sup> July 1887.

## 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.

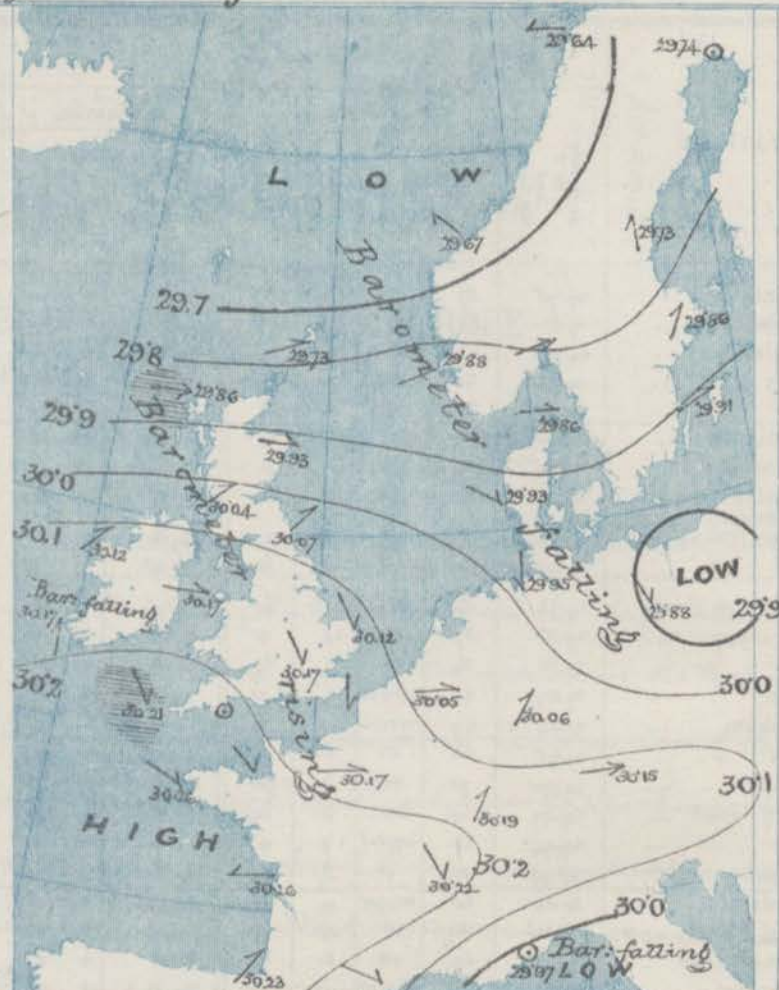
**Sea Disturbance** — where considerable is shown thus

■ = Rough. ■ = High.

## MEAN HEIGHT of the BAROMETER

at 8 a.m. for the month of July.  
During the 10 Years 1871—1880.

STATIONS.	MEAN READINGS.
	in.
Sumburgh Head	29.827
Stornoway	29.790
Wick	29.813
Nairn	29.824
Aberdeen	29.829
Leith	29.848
Shields	29.873
York	29.902
Ardrossan	29.864
Donaghadee	29.878
Holyhead	29.914
Liverpool	29.910
Valencia	29.944
Roche's Point	29.940
Pembroke	29.942
Seilly	29.986
Hurst Castle	29.981
Dover	29.959
LONDON	29.955
Oxford	29.941
Cambridge	29.937
Yarmouth	29.934



## 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	57.9	48.5	53.7	52.2	2.09
Stornoway	60.3	49.7	56.4	54.3	3.02
Wick	62.4	49.4	56.2	53.9	2.25
Nairn	65.0	51.6	57.4	53.7	2.57
Aberdeen	64.4	51.7	57.9	54.4	2.74
Leith	68.0	52.0	59.1	55.9	2.84
Shields	64.6	53.6	58.8	55.5	2.63
York	68.1	52.3	59.7	56.5	2.57
Ardrossan	64.0	53.8	57.8	54.8	2.91
Donaghadee	62.9	52.0	57.7	55.9	2.87
Holyhead	64.5	55.0	58.3	56.1	2.32
Liverpool	66.4	54.6	59.8	56.1	2.99
Valencia	64.5	53.9	59.0	56.2	3.91
Roche's Point	68.2	53.9	59.1	56.0	3.16
Pembroke	64.0	55.4	58.5	56.2	2.31
Seilly	65.0	56.9	60.3	58.2	2.29
Hurst Castle	67.9	56.4	61.7	59.2	2.15
Dover	67.4	57.5	63.0	59.2	1.82
LONDON	73.3	54.2	62.5	58.6	2.17
Oxford	69.9	53.7	60.4	57.1	2.51
Cambridge	72.5	52.8	61.3	58.0	2.30
Yarmouth	68.7	55.5	61.4	58.4	2.68

Note — The Temperature means are for the 10 years 1871—80, the Rainfall means are mainly those for the 10 years 1866—85.





# GENERAL SITUATION AT 8 A.M.

## PRESSURE

Highest, 30.2 ins and more over the south-west of England, the coast of France and the north of Spain, with the Bay of Biscay.  
Lowest, 29.7 ins and less over the west of Norway, and off our extreme northern coast.  
Tendency, slight in the south, moderate in the north. Barometer rising in the south and east falling slightly in west.

## TEMPERATURE

Highest, 74° at Nice, 78° at Lisbon, 72° at Perpignan, 68° at Genoa, 64° to 67° over the south of England and West Germany.  
Lowest, 52° at Oslo, 53° at Lumburg Head, 56° in the west of Scotland and 57° at Berlin.  
It has risen decidedly over our south-eastern Counties, but changed very irregularly elsewhere.

## WIND

Slight to moderate from W and NW over Great Britain, the north of France and North Germany.  
SWly to SEly over Scandinavia, variable over the Bay of Biscay.  
In Ireland it is falling very light and backing to S by.

## WEATHER

Varies greatly. It is very fine over the North Sea, Great Britain and the east of Ireland.  
Rainy in Norway, cloudy with local showers in the west of Ireland.  
Dull over Germany and the east of France, where thunder showers have occurred.

## SEA

Rather rough at Lillip, moderate at Mullaghmore, slight or smooth elsewhere.

## PROBABLE CHANGES IN SYSTEM NOW PREVALENT

The weather is likely to remain fine over England during the next 24 hours, but the fall of the barometer and SW winds in the west point to the approach of new disturbances from the Atlantic, which will probably cause showery weather in Ireland and the west and north of Scotland.

## FORECASTS

for the 24 hours ending at NOON on 24<sup>th</sup> July 1887.

### DISTRICTS.



### FORECASTS.

0	SCOTLAND NORTH	Wly breezes, moderate, some showers.
1	SCOTLAND EAST	Wly breezes, light, fair generally.
2	ENGLAND N.E.	----- D° ----- D° -----
3	ENGLAND EAST	Same as N° 5.
4	MIDLAND COUNTIES	Same as N° 1.
5	ENGLAND SOUTH	NWly breezes, light, fine, warm.

### DISTRICTS.

### FORECASTS.

6	SCOTLAND WEST	SWly breezes, light, changeable, some showers, with bright intervals.
7	ENGLAND N.W.	----- D° ----- D° -----
8	ENGLAND S.W.	SWly airs and calms, fine, hazy at times.
9	IRELAND NORTH	SEly breezes, fine, very warm.
10	IRELAND SOUTH	----- D° ----- D° -----
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 ...	29.91	59	57	SSE	6	0	4	Holyhead ...	30.06	60	60	SW	3	rmv	2
Sumburgh Head ...	29.73	58	52	W	3	c	3	Valencia ...	30.18	66	59	NNW	4	c	4
Stornoway ...	29.81	60	55	SW	4	cpq	4	Scilly ...	30.15	69	55	WNW	2	bc	3
Aberdeen ...	29.83	72	62	W	3	bc	1	Dungeness ...	30.02	68	63	E	4	b	3
Shields ...	29.94	71	65	W	2	c	2	London ...	30.01	76	62	ESE	1	mv	*
Ardrossan ...	29.99	63	59	W	3	0	2	Yarmouth ...	30.05	66	60	SE	3	b	2
Malin Head ...								Jersey ...	30.10	71	61	WNW	2	bc	2
Mullaghmore ...	30.09	63	58	WNW	6	cpq	5	Rocheport ...	30.17	75	? 69	SW	4	bc	2
Belmullet ...	30.12	62	56	WNW	4	0	*								

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

*The Continental Information will appear in Sunday's Report.*

### 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 24<sup>th</sup> July

1887.

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

Issued by the Meteorological Office, 16, 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 ..	Inc.	60	2	0	0	Inc.	Inc.	58	55	-5	NW	2	0	*	70	46	—		
Hernösand ...	29.67	57	2	0	0	29.63	-11	58	53	0	NNE	2	0	*	77	50	0.20		
Stockholm ...	29.68	61	2	0	0	29.72	-01	64	57	+1	WSW	2	0	*	72	55	—		
Wisby ...	29.82	62	5	2	0	29.81	-02	61	57	-2	W	4	0	*	70	55	—		
Bodö ...	29.84	52	2	0	0	29.87	-04	53	51	+1	SSW	1	0	0	55	30	0.32		
Christiansund...	29.64	52	WSW	4	0	29.58	-09	56	50	+1	ESE	1	0	0	?	30	0.16		
Skudesnaes ...	29.71	57	W	1	0	29.72	-16	57	55	-2	S	6	0	4	61	57	—		
Christiania Fjord (Farder)	29.93	65	WSW	3	0	29.79	-01	58	52	-3	W	2	0	2	64	57	—		
Skagen (The Scaw)	29.76	57	W	3	0	29.87	+01	59	54	+1	WNW	4	0	3	64	54	—		
Faßö ...	29.85	58	NW	4	0	29.97	+04	62	?	-6	W	4	0	*	68	55	—		
BRITISH ISLANDS.																			
Sumburgh Head	30.04	55	WSW	3	0	29.49	-24	53	53	0	2	0	0	1	58	50	0.52		
Stornoway ...	29.77	56	SW	4	0	29.55	-31	56	55	0	SW	3	0	3	61	50	0.58		
Wick ...	29.80	60	S	2	0	29.55	-30	56	53	-2	W	2	0	0	60	52	0.10		
Nairn ...	29.87	61	SW	2	0	29.61	-29	53	52	-6	2	0	0	1	66	58	0.15		
Aberdeen...	29.89	65	SW	3	0	29.62	-31	59	57	-6	WSW	2	0	0	71	55	0.17		
Leith ...	29.87	62	W	3	0	29.68	-31	56	55	-3	W	1	0	*	66	55	0.24		
Shields ...	30.03	65	WSW	3	0	29.44	-33	62	60	+3	SSW	4	0	2	66	58	—		
Spurn Head ...	30.07	64	SSE	2	0	29.89	-13	64	61	+4	SW	4	0	3	70	57	—		
York ...	30.07	67	W	2	0	29.82	-30	67	61	+6	SW	3	0	*	69	56	—		
Loughborough	30.07	73	WSW	2	0	29.92	-24	65	61	+1	WSW	3	0	*	77	55	—		
ARDROSSAN.																			
Malin Head ...	29.97	58	SW	3	0	29.69	-35	57	56	+1	WNW	4	0	3	62	53	0.41		
Mullaghmore ...	29.88	57	S	3	0	29.70	-33	62	61	+5	NW	4	0	3	62	54	0.30		
Beltanlet ...	29.93	58	SSW	6	0	29.78	-33	60	58	+3	WNW	5	0	4	63	54	0.59		
Donaghadee ...	29.92	61	SW	3	0	29.82	-30	59	54	-1	WNW	4	0	*	68	56	0.21		
Barrow-in-Furness	30.01	59	SW	4	0	29.74	-38	58	58	0	WNW	2	0	0	69	55	0.42		
Liverpool (Bidston)	30.06	61	WSW	2	0	29.77	-35	62	60	+3	SW	5	0	*	63	58	—		
Holyhead ...	30.08	62	NW	1	0	29.84	-31	66	61	+5	SW	3	0	3	68	58	—		
Parsonstown ...	30.07	59	SSW	4	0	29.83	-34	60	60	-6	SSW	5	0	4	67	57	0.02		
Valencia ...	30.00	59	SSW	1	0	29.82	-35	62	61	0	SW	1	0	*	68	58	0.39		
Roche's Point...	30.04	63	SW	4	0	29.90	-27	61	60	-1	NW	2	0	3	65	57	0.27		
Pembroke ...	30.08	65	SSW	3	0	29.89	-29	63	62	+1	WSW	5	0	4	67	59	0.01		
Scilly ...	30.13	60	S	3	0	29.93	-27	61	61	+1	SW	4	0	4	65	60	0.03		
Prawle Point ...	30.16	67	WSW	3	0	30.02	-19	66	63	+3	SW	4	0	5	70	60	—		
Jersey ...	30.15	63	WSW	1	0	30.05	-20	63	62	-4	WSW	4	0	3	71	56	0.03		
Hurst Castle ...	30.19	66	WNW	3	0	30.08	-12	63	61	+1	W	2	0	2	72	52	—		
Dungeness ...	30.16	63	SW	4	0	30.05	-14	63	61	-3	SW	4	0	1	73	56	—		
London ...	30.14	65	SW	2	0	30.03	-09	60	58	-4	WSW	4	0	2	71	56	—		
Oxford ...	30.09	75	SW	3	0	30.01	-16	64	60	-2	SSW	2	0	*	79	54	—		
Cambridge ...	30.09	69	SW	2	0	29.98	-20	63	59	0	SW	3	0	*	76	53	—		
Yarmouth ...	30.08	74	SW	1	0	29.95	-20	69	61	+3	SW	2	0	*	79	61	—		
GERMANY.																			
Cuxhaven ...	30.13	63	SSE	4	0	29.95	-17	65	58	+2	WSW	3	0	2	67	57	—		
Berlin ...	30.04	60	NW	3	0	30.04	+09	62	59	-4	SW	2	0	*	67	59	—		
Wiesbaden ...	29.97	68	2	0	0	30.06	+18	60	56	+3	W	4	0	*	72	55	0.12		
Munich ...	*	*	*	*	*	30.11	+05	64	60	-2	2	0	0	*	79	55	—		
FRANCE & NETHERLANDS.																			
The Helder ...	30.21	63	SW	3	0	30.18	+03	64	56	-2	SW	3	0	*	72	55	—		
Brussels ...	30.13	61	WNW	1	0	30.00	-02	61	56	-1	SSW	4	0	3	64	52	—		
Cape Gris Nez...	*	*	*	*	*	?	?	63	57	+2	NW	1	0	*	76	55	—		
Paris ...	30.14	66	2	0	0	30.03	-09	59	59	-4	SSW	4	0	1	73	55	—		
Brest ...	30.14	76	W	3	0	30.09	-08	63	60	+2	2	0	0	*	79	54	—		
Lorient ...	30.25	66	S	4	0	30.12	-14	60	58	0	2	0	0	1	77	55	—		
Rochefort ...	30.19	67	NW	5	0	30.12	-11	57	55	-4	ENE	1	0	2	72	54	—		
Belfort ...	30.20	67	NW	5	0	30.12	-14	65	64	+1	ENE	4	0	2	77	57	—		
Lyons ...	30.17	73	SW	1	0	30.09	-10	71	64	+10	NE	3	0	*	78	48	—		
Nice ...	30.13	73	2	3	0	30.06	-14	65	59	0	NW	1	0	*	85	59	—		
Perpignan ...	29.88	80	2	0	0	29.96	-01	75	67	+4	SSW	1	0	*	88	66	—		
Biarritz ...	30.07	81	NW	1	0	30.03	-12	74	68	+2	NW	1	0	*	85	62	—		
PENINSULA.																			
Corunna ...	30.12	72	NNE	5	0	30.04	-19	66	64	-3	SSE	4	0	2	73	64	—		
Lisbon ...	*	*	*	*	*	30.05	-10	70	66	-1	NNE	1	0	8	84	62	—		
	30.03	77	NW	5	0	30.12	+13	70	64	-8	WNW	3	0	2	90	64	—		

For Explanation of Columns, see p. 4.



# WEATHER CHARTS

for 8 a.m. on Sunday, 24<sup>th</sup> July,

1887.

## 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 heads and feathers refer to force, thus —

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

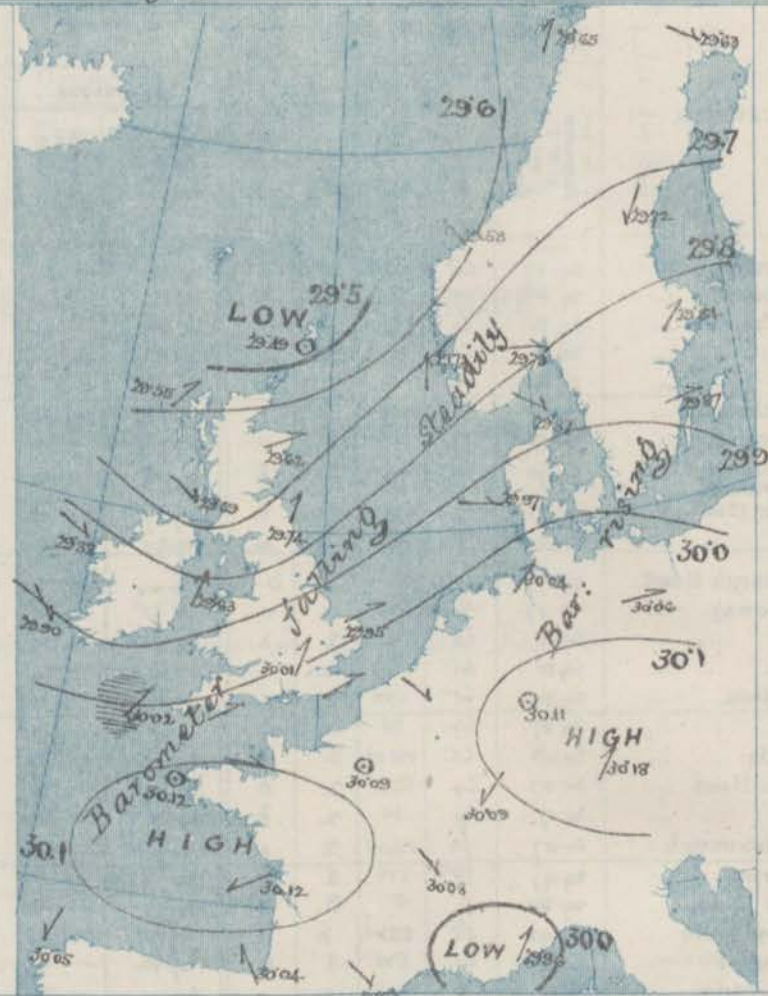
**Sea Disturbance** — where considerable is shown thus

— Rough. — High.

## MEAN HEIGHT of the BAROMETER

at 8 a.m. for the month of July.  
During the 10 Years 1871—1880.

STATIONS.	MEAN READINGS.
	in.
Sumburgh Head	29.827
Stornoway	29.799
Wick	29.813
Nairn	29.824
Aberdeen	29.829
Leith	29.848
Shields	29.873
York	29.902
Ardrossan	29.864
Donaghadee	29.878
Holyhead	29.914
Liverpool	29.910
Valencia	29.944
Roche's Point	29.940
Pembroke	29.942
Scilly	29.986
Hurst Castle	29.961
Dover	29.959
LONDON	29.955
Oxford	29.941
Cambridge	29.937
Yarmouth	29.934



## 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.

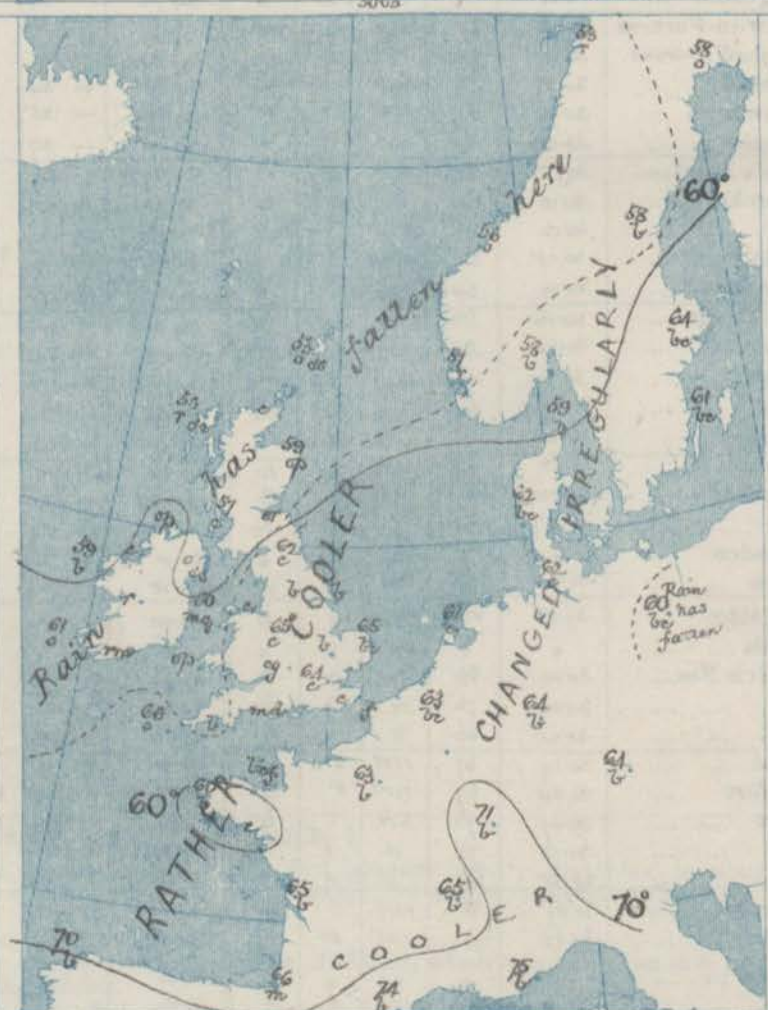
**Rainfall** — A dotted line separates the districts in which rain has fallen from those where there has been none. Falls of 0.5 in. or more, are quoted in figures.

## MEANS OF TEMPERATURE IN SHADE. AND RAINFALL.

for the month of July.

STATIONS	TEMPERATURE.				RAINFALL. (Inches)
	Daily Max.	Daily Min.	Air & M. Dry.	Wet.	
Sumburgh Head	57.9	48.5	53.7	52.2	2.09
Stornoway	60.3	49.7	55.4	54.3	3.02
Wick	62.4	49.4	56.2	53.9	2.25
Nairn	65.0	51.6	57.4	53.7	2.57
Aberdeen	64.4	51.7	57.9	54.4	2.74
Leith	68.0	52.0	59.1	55.9	2.84
Shields	64.6	53.6	58.8	55.5	2.63
York	68.1	52.3	59.7	56.5	2.57
Ardrossan	64.0	53.8	57.8	54.8	2.91
Donaghadee	62.9	52.0	57.7	55.9	2.67
Holyhead	64.5	55.0	58.3	56.1	2.32
Liverpool	66.4	54.6	59.8	56.1	2.99
Valencia	64.5	53.9	59.0	56.2	3.91
Roche's Point	68.2	53.9	59.1	56.0	3.16
Pembroke	64.0	55.4	58.5	56.2	2.31
Scilly	65.0	56.9	60.3	58.2	2.29
Hurst Castle	67.9	56.4	61.7	59.2	2.15
Dover	67.4	57.5	63.0	59.2	1.82
LONDON	73.3	54.2	62.5	58.0	2.17
Oxford	69.9	58.7	60.4	57.1	2.51
Cambridge	72.5	52.8	61.3	58.0	2.90
Yarmouth	66.7	55.5	61.4	58.4	2.68

NOTE — The Temperature means are for the 10 years 1871—80, 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, in anticyclonic areas lying respectively over Germany, Portugal, and the west of France. Lowest, 29.5 ins. and less, in a depression lying to the southward of Scotland. Shallow subsidiary disturbances are reported over various parts of our western and northern districts.
TEMPERATURE	Highest, 75° at Kici, 74° at Lerpignan, 71° at Belfast, 70° at Fiumana and Lisbon, and 69° at Cambridge. Lowest, 53° at Boats, Lumburgh H <sup>d</sup> and Kairi, and 56° at Christiansund, Stenavay, Nisk, and Leith.
WIND	Moderate from W. or N.W. in Ireland and the west of Scotland. Light to fresh from S.W. over Great Britain, the Netherlands and the North Sea. Light E. in the west of France; variable in the east and south of that country.
WEATHER	Dull and unsettled in the west and north of our Islands and the west of Norway, with rain in many places. Fair or fine at our eastern, southern and the Continental stations.
SEA	Rather rough at Lally, moderate to smooth elsewhere.

## PROBABLE CHANGES IN SYSTEM NOW PREVALENT

In the course of the past 24 hours a large depression has advanced to our extreme northern coasts, while some secondary disturbances have appeared over Ireland and Scotland. The barometer has, therefore, fallen generally, and the area of high pressure in the south has separated into three distinct portions. The general appearance is less settled than of late.

## FORECASTS

for the 24 hours ending at NOON on 25<sup>th</sup> July. 1887.

### 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*

*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.		
Skutumpahes ...	29.93	60	55	WSW	2	0	3	Holyhead ...	30.15	62	56	SSW	3	c	2
Stamburgh Head ...	29.77	56	52	WSW	4	c	3	Valencia ...	30.11	64	60	SSW	4	0	5
Stornoway ...	29.56	57	55	SW	5	cq	5	Scilly ...	30.29	68	65	SSE	1	c	4
Aberdeen ...	29.93	69	59	W	2	c	0	Dungeness ...	30.17	69	64	SE	2	b	2
Shields ...	30.06	65	59	WSW	3	0	2	London ...	30.15	71	62	SW	2	b	*
Ardrossan ...	30.04	59	58	WSW	4	0	3	Yarmouth ...	30.14	67	59	NNE	3	b	3
Malin Head ...	29.99	58	?	WSW	3	0	3	Jersey ...	30.13	70	62	NNW	3	b	3
Mullaghmore ...	30.03	62	57	SSW	5	0	H	Rochefort ...	30.26	76	70	NW	3	b	2
Belmullet ...	30.03	65	62	SW	2	r	*								

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

The reports for yesterday morning showed that pressure was highest (30.2 ins. and more) over the NW<sup>2</sup> half of Spain, the west of France and the southwest of England with the Bay of Biscay, and that it exceeded 30 ins. over nearly the whole of Western and Central Europe. To the northward, however, it decreased to about 29.7 ins. off the west of Norway, while to the southward it decreased to rather below 30 ins. over the Gulf of Genoa. W<sup>1</sup> and SW<sup>1</sup> breezes prevailed over the greater part of our Islands and S to E winds in Scandinavia. Over France and Germany the wind varied between SW. and NW. and was very light in force. Thundery weather prevailed in France, and showers over our northwestern and northern districts, but elsewhere the weather was fair. Temperature ranged from between 80° and 85° over the southern part of the Mediterranean to between 50° and 55° over Northern Europe. The highest individual values were 90° at Cagliari, 85° at Algiers, Tunis, and Biskra, 83° at Palma, 82° at Malta and Livorno, 80° at Barcelona and 77° at Oporto; the lowest were 52° at Rodez and Archangel, 53° at Sumburgh H<sup>1</sup>, 55° at Christiansund, 56° at Stornoway, and 57° at Berlin.

Later in the day the barometer began to fall again in the west, and the wind backed to SW. or S. in Ireland, and freshened with showery weather.

### Remarks for the 24 hours ended at 8 a.m. July 23<sup>rd</sup> 1887.

The reports for Friday morning showed that pressure varied from 30.1 ins. and upwards in a band which lay over the Bay of Biscay, the Channel, the south of England, Holland, and Germany, to rather below 29.7 ins. over Northern Europe, and to rather below 29.5 ins. over the south of Spain. The gradients for W<sup>1</sup> winds, on the northern side of this band were slight and somewhat irregular, while those on its southern side were still slighter and more irregular. Winds varying in direction from SW. to NW. were felt over the greater part of NW and N Europe, but in Norway the wind was SE; to the southward of the high pressure band the wind was extremely variable, and over France there was a complete cyclonic circulation of light breezes, round a very shallow depression which lay over the Central Departments. (Dull weather and some rain were prevalent over the west of Ireland, the west of Norway and several parts of the Baltic; and over the S half of France thunderstorms had again occurred, with much rain. Over England, however, with the north of France and Germany the weather was fine and bright. Temperature varied from between 80° and 90° over many parts of the Mediterranean to rather below 50° in the northwest of Norway, and was locally low over Central Germany and Belgium. The highest individual readings reported were 90° at Cagliari, 85° at Naples, Palermo and Hobbs, 84° at Christiania, Palma and Algiers, 83° at Livorno, Tunis and Barcelona, and 80° at Languedoc; the lowest 48° at Rodez, 51° at Christiansund, 55° at Sumburgh H<sup>1</sup> and Stornoway, 54° at Cassel, and 59° at Berlin and Brussels.

Later in the day the depression in France moved northwards to our Islands and then eastwards towards Germany causing an unsettled appearance and in some places rain, after which the barometer rose over France and the United Kingdom and the weather cleared 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 *Monday 25<sup>th</sup> July* 1887.  
 Issued by the Meteorological Office, 116, Victoria Street, London, R. H. SCOTT, Secretary.

Issued by the Meteorological Office, 116, Victoria Street, London, W. 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.		WIND.	Force (0 to 12.)	Weather.	Sea. (0 to 9.)	SHADE TEMP.		Amount of Rainfall.			
			Dir.	Force. (0 to 12.)				Dry.	Wet.					Dir.	Max.		Min.		
SCANDINAVIA.																			
Haparanda ...	29.69	57	SSW	2	c	29.57	-.06	63	60	+ 5	S	4	c	*	70	54	—		
Hernösand ...	29.64	55	S	2	o	29.52	-.20	59	57	+ 1	S	6	r	*	73	50	0.12		
Stockholm ...	29.49	63	W	2	b	29.73	-.11	63	57	- 1	SSW	4	o	*	73	54	—		
Wisby ...	29.86	60	SW	4	b	29.83	-.04	64	59	+ 3	SW	6	c	*	73	58	—		
Bodö ...	29.48	60	ENE	4	o	29.37	-.28	51	50	- 2	WSW	6	r	3	61	50	0.16		
Christiansund...	29.41	51	NW	3	r	29.48	-.10	55	51	- 1	S	2	c	2	?	48	0.24		
Skudesnaes ...	29.63	54	WSW	1	c	29.66	-.06	58	54	+ 1	SW	2	c	4	?	54	—		
Christiania Fjord (Fjorder)	29.63	60	SSW	7	o	29.64	-.15	59	53	+ 1	WSW	3	b	3	61	57	—		
Skagen (The Scaw)	29.69	61	SW	2	c	29.69	-.18	58	56	- 1	WNW	2	bc	1	68	55	0.04		
Fanö ...	29.80	62	SSW	4	c	29.74	-.23	61	61	- 1	WNW	2	c	*	68	59	0.08		
Sumburgh Head	29.50	55	W	1	c	29.58	+ .09	52	48	- 1	W	1	bc	1	58	47	—		
Stornoway ...	29.57	57	SW	5	c	29.65	+ .10	54	52	- 2	SW	2	c	2	57	48	0.24		
Wick ...	29.51	55	SW	3	c	29.64	+ .09	55	51	- 1	SW	3	c	0	70	41	0.03		
Nairn ...	29.63	60	WSW	2	bc	29.69	+ .08	56	52	+ 3	W	2	c	2	65	47	0.06		
Aberdeen...	29.62	67	WNW	3	bc	29.71	+ .09	61	53	+ 2	WSW	2	bc	0	69	45	0.07		
Leith ...	29.70	62	W	4	b	29.76	+ .08	58	53	+ 2	W	2	c	*	68	50	0.01		
Shields ...	29.71	67	W	3	bc	29.80	+ .06	60	55	- 2	SW	3	c	2	69	50	0.05		
Spurn Head ...	29.79	63	WNW	5	c	29.83	-.06	60	56	- 4	N	2	b	2	74	56	0.17		
York ...	29.79	65	W	2	c	29.83	+ .01	60	55	- 7	W	1	bc	*	74	53	0.06		
Loughborough	29.84	67	WSW	3	r	29.85	-.07	64	59	- 3	Z	0	bc	*	75	53	0.26		
Ardrossan ...	29.75	62	WNW	4	b	29.79	+ .10	59	55	+ 2	WNW	3	o	2	66	52	0.01		
Malin Head ...	29.76	58	WNW	4	c	29.79	+ .69	53	53	- 9	W	3	oq	3	62	52	0.05		
Mullaghmore ...	29.85	59	W	6	c	29.85	+ .07	55	52	- 5	WSW	5	cp	4	63	53	0.03		
Belmullet ...	29.89	50	NW	3	c	29.87	+ .05	58	51	- 1	WNW	2	c	*	62	52	0.06		
Donaghadee ...	29.87	63	WNW	3	bc	29.84	+ .10	58	54	0	W	3	c	1	69	53	0.02		
Barrow-in-Furness	29.80	61	SW	3	o	29.80	+ .06	56	53	- 6	NW	2	bc	*	62	54	0.11		
Liverpool (Bidston)	29.83	61	W	2	c	29.85	+ .01	58	54	- 8	WNW	2	bc	3	71	56	0.19		
Holyhead ...	29.84	63	SW	2	c	29.88	+ .05	65	?	+ 5	WNW	2	b	2	65	54	0.07		
Parsonstown ...	29.88	62	W	1	c	29.89	+ .07	59	54	- 3	SW	1	bc	*	68	48	0.02		
Valencia ...	29.95	62	NW	3	o	29.92	+ .02	62	55	+ 1	W	1	c	1	65	50	—		
Roche's Point...	29.91	64	NNW	4	c	29.92	+ .03	60	57	- 3	SSE	1	b	1	67	52	0.04		
Pembroke ...	29.87	60	WSW	1	f	29.90	-.03	58	57	- 3	NW	2	c	2	64	54	0.06		
Scilly ...	29.95	66	SW	4	o	29.91	-.11	63	60	- 3	NNW	2	bc	5	72	58	0.09		
Prawle Point ...	29.95	63	WSW	4	c	29.88	-.17	62	60	- 1	SW	1	c	1	69	57	0.36		
Jersey ...	30.02	68	NNW	2	b	29.91	-.17	63	60	0	WSW	3	bc	3	70	69	—		
Hurst Castle ...	29.94	65	WSW	5	bc	29.85	-.20	64	64	+ 1	WSW	2	cam	2	69	60	0.04		
Dungeness ...	29.93	63	WSW	4	bc	29.84	-.19	62	61	+ 2	WSW	4	o	3	64	59	—		
London ...	29.87	74	SSW	3	bc	29.85	-.16	60	58	- 4	NE	1	ofd	*	78	59	0.32		
Oxford ...	29.88	66	WSW	2	o	29.84	-.14	63	60	0	NNE	1	b	*	75	58	0.36		
Cambridge ...	29.88	75	SW	1	bc	29.84	-.11	63	60	- 6	NW	1	b	*	80	57	0.15		
Yarmouth ...	29.83	76	WSW	5	c	29.82	-.13	61	59	- 4	NNW	1	bc	3	79	57	0.24		
Cuxhaven ...	29.99	63	SW	1	b	29.83	-.21	65	63	+ 3	SW	2	c	*	70	62	—		
Berlin ...	29.96	68	Z	0	bc	29.87	-.19	67	62	+ 7	SW	1	b	*	75	57	—		
Wiesbaden ...	*	*	*	*	*	29.87	-.24	69	64	+ 5	SW	2	bc	*	81	59	—		
Munich ...	30.06	64	NE	2	b	29.96	-.22	65	60	+ 1	NE	1	b	*	75	50	—		
The Helder ...	29.88	64	SW	3	c	29.78	-.22	65	62	+ 4	WSW	1	o	1	70	61	—		
Brussels ...	*	*	*	*	*	29.86	?	61	58	- 2	WSW	1	c	*	80	59	—		
Cape Gris Nez...	29.94	63	SW	5	f	29.88	-.15	58	58	- 1	SW	5	f	4	64	57	—		
Paris ...	29.96	76	WSW	1	b	29.94	-.15	61	57	- 2	Z	0	bc	*	84	52	—		
Brest ...	30.01	65	WSW	4	b	29.96	-.16	61	60	+ 1	SW	4	f	4	77	55	—		
Lorient ...	*	*	*	*	*	29.96	-.16	61	60	+ 1	SW	4	f	4	77	55	—		
Rocheport ...	30.02	68	NW	5	b	29.99	-.13	63	62	- 2	SSW	3	c	2	75	61	—		
Belfort ...	30.00	78	NE	1	b	29.91	-.18	72	64	+ 1	SW	1	bc	*	83	53	—		
Lyons ...	29.94	80	NE	1	b	29.90	-.18	71	64	+ 6	ESE	1	b	*	81	61	—		
Nice ...	29.88	80	Z	0	b	29.89	-.07	78	67	+ 3	ENE	1	b	0	84	70	—		
Perpignan ...	29.94	79	E	1	b	29.88	-.16	70	70	- 1	E	3	o	*	85	65	—		
Biarritz ...	29.98	77	N	1	b	30.01	-.03	69	63	+ 3	WNW	4	c	3	79	64	—		
Corunna ...	*	*	*	*	*	30.04	-.01	69	68	- 1	NW	1	m	2	84	61	—		
Lisbon ...	30.13	67	NW	5	c	30.16	+ .04	65	59	- 5	NNW	7	o	2	79	64	—		

For Explanation of Columns, see p. 4.



# WEATHER CHARTS

for 8 a.m. on Monday, 25<sup>th</sup> July, 1887.

## 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.

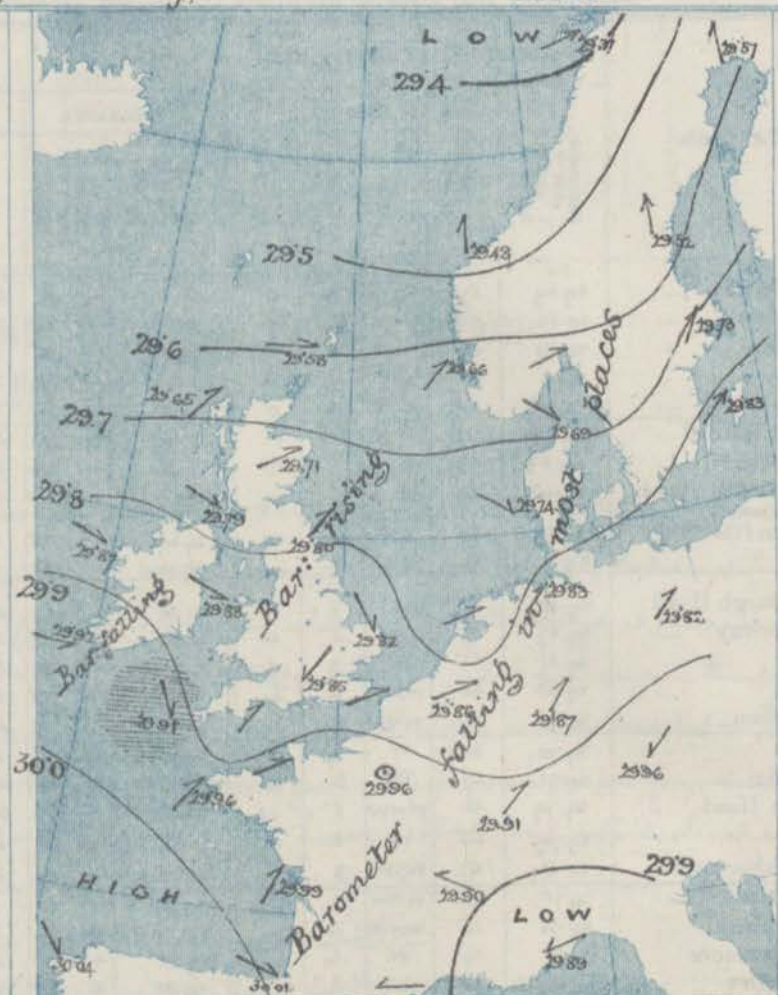
**Sea Disturbance** — where considerable is shown thus

■ = Rough. ■ = High.

## MEAN HEIGHT of the BAROMETER

at 8 a.m. for the month of July.  
During the 10 Years 1871—1880.

STATIONS.	MEAN READINGS.
	IN.
Sumburgh Head	29.827
Stornoway	29.799
Wick	29.813
Nairn	29.824
Aberdeen	29.829
Leith	29.848
Shields	29.873
York	29.902
Ardrossan	29.864
Donaghadee	29.878
Holyhead	29.914
Liverpool	29.910
Valencia	29.944
Roche's Point	29.940
Pembroke	29.942
Seilly	29.986
Hurst Castle	29.961
Dover	29.959
LONDON	29.955
Oxford	29.941
Cambridge	29.937
Yarmouth	29.934



## 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 & 12.		
			Dry.	Wet.	
Sumburgh Head	57.9	48.5	53.7	52.2	2.09
Stornoway	60.3	49.7	56.4	54.3	3.02
Wick	62.4	49.4	56.2	53.9	2.25
Nairn	65.0	51.6	57.4	53.7	2.57
Aberdeen	64.4	51.7	57.9	54.4	2.74
Leith	68.0	52.0	59.1	55.9	2.84
Shields	64.6	53.6	58.8	55.5	2.63
York	68.1	52.3	59.7	56.5	2.57
Ardrossan	64.0	53.8	57.8	54.8	2.91
Donaghadee	62.9	52.0	57.7	55.9	2.67
Holyhead	64.5	55.0	58.3	56.1	2.32
Liverpool	66.4	54.6	59.8	56.1	2.99
Valencia	64.5	53.9	59.0	56.2	3.91
Roche's Point	68.2	53.9	59.1	56.0	3.16
Pembroke	64.0	55.4	58.5	56.2	2.31
Scilly	65.0	56.9	60.3	58.2	2.29
Hurst Castle	67.9	56.4	61.7	59.2	2.15
Dover	67.4	57.5	63.0	59.2	1.82
LONDON	73.3	64.2	62.5	58.6	2.17
Oxford	69.9	53.7	60.4	57.1	2.51
Cambridge	72.5	62.8	61.3	58.0	2.30
Yarmouth	66.7	55.5	61.4	58.4	2.68

NOTE — The Temperature means are for the 10 years 1871—80, 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, 29.4 in. and less, in the north of Norway. A shallow depression, with reading, below 29.9 in., lies over the S. of France.
TEMPERATURE	Highest, 78° at Nice, 73° at Perpignan, 72° at Belfort, 71° at Lyons & 69° at Cornua and Biarritz. Lowest, 51° at Bodø, 52° at Lumburgh Head, 54° at Stornoway and 55° at Christiansund, Trich and Mullaghmore.
WIND	Moderate to strong from S.W. or S. in Sweden, light NW <sup>ly</sup> over the greater part of England. Light E <sup>ly</sup> in the south of France; W <sup>ly</sup> or SW <sup>ly</sup> elsewhere.
WEATHER	Fair generally, but rainy at some of the Scandinavia stations. Mist or drizzling rain reported over the Southeast of England and the eastern part of the Channel. [Since yesterday morning rain has fallen generally.]
SEA	Rather rough at Scilly, but moderate to smooth elsewhere.

## PROBABLE CHANGES IN SYSTEM NOW PREVALENT

The large depression which lay to the northward of our islands yesterday has travelled away to the northeastward, while the subsidiary disturbances then noticed over our western and northern districts have moved in an easterly or a southeasterly direction to the North Sea and the southeast of England. The barometer is, however, again falling slightly in the west of Ireland.

The fresh fall of the barometer in the extreme west seems to indicate the advance of further small depression, but these are scarcely likely to affect our eastern districts at present.

## FORECASTS

For the 24 hours ending at NOON on 26<sup>th</sup> JULY 1887.

DISTRICTS.	FORECASTS.	DISTRICTS.	FORECASTS.
0 { SCOTLAND NORTH	N <sup>ly</sup> winds, light, fair generally, but perhaps local showers.	6 { SCOTLAND WEST	Same as N <sup>o</sup> 0 and 1.
1 { SCOTLAND EAST	-----D-----D-----D-----	7 { ENGLAND N.W.	NW <sup>ly</sup> to SW <sup>ly</sup> winds, light; fine to cloudy and some rain.
2 { ENGLAND N.E.	Same as N <sup>o</sup> 5.	8 { ENGLAND S.W.	-----D-----D-----D-----
3 { ENGLAND EAST	Same as N <sup>o</sup> 5.	9 { IRELAND NORTH	N <sup>ly</sup> to SW <sup>ly</sup> winds, moderate; changeable; some rain.
4 { MIDLAND COUNTIES	Same as N <sup>o</sup> 5.	10 { IRELAND SOUTH	-----D-----D-----D-----
5 { ENGLAND SOUTH	N <sup>ly</sup> and NW <sup>ly</sup> winds, light; fine 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.	Wen.	Sea.		Bar.	Dry.	Wet.	Wind.	Wen.	Sea.
Skudesnaes ...	29.59	57	56	S 6	N	5	Holyhead ...	29.84	60	60	SW 2	0	3
Sumburgh Head							Valencia ...						
Stornoway ...	29.56	55	53	SW 4	N	4	Scilly ...						
Aberdeen ...							Dungeness ...	29.97	64	61	WSW 4	c	3
Shields ...							London ...						
Ardrossan ...							Yarmouth ...						
Malin Head ...	29.78	60	60	W 4	c	4	Jersey ...	30.05	69	62	WSW 2	b	2
Mullaghmore ...							Rocheport ...	30.08	75	69	W 4	b	2
Belmullet ...	29.87	62	56	WNW 3	0								

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

The reports for yesterday morning showed that pressure varied from 30.1 ms and more over Brittany and from 30.0 ms and more over Germany, France and Spain to about 29.5 ms off the extreme north of Scotland and west of Norway as well as over Central Russia. The gradients were consequently favourable for W and SW winds over the British Islands and their neighbourhood, and for NW to N winds over the Baltic and Central Europe. The winds reported agreed with these conditions and blew somewhat freshly in many parts of our islands. The weather was showery in the west and north of our islands as well as over Scandinavia and Germany, fine elsewhere and, rather warm. Temperature had fallen somewhat decidedly over Southern Europe and ranged from about 84° over the southern parts of the Mediterranean to between 50° and 60° over Scandinavia and to rather below 50° on the shores of the White Sea. The highest individual values were 84° at Lfay and Biskra (Algeria), at Cagliari, Malta and Barcelona, 82° at Palermo, 81° at Brindisi and 80° at Rome; the lowest, 47° at Archangel, 52° at Rode, 57° at Christiansund and 59° at Hango.

Little change of importance occurred later except that the tendency for showery weather began to spread to England generally.

## SUMMARY OF CHANGES IN THE WEATHER OVER THE BRITISH ISLANDS AND THEIR NEIGHBOURHOOD.

FROM THE 17<sup>TH</sup> TO THE 23<sup>RD</sup> JULY 1887.

The weather experienced over the United Kingdom during the last week was again fine, and on the whole, very dry over the British Islands, but dull and very rainy over Scandinavia and the southern half of France; in the latter region thunderstorms were of daily occurrence. At first the winds over our islands were N and the highest of the daily maximum temperatures were very little above 70°; a ridge then stretched from west to east over our southern districts and temperature rose till on Wednesday maxima of 80° to 83° occurred in many parts of Great Britain, and at the same time a little rain began to fall in the north-west of Ireland. On Thursday and early on Friday the rainfall was more general both in Ireland and Scotland, but over England the weather remained fine, though an increased amount of cloud during the day time caused a decrease of heat. On Saturday fine weather was general at first with W and NW winds, but during the day the barometer began to fall rather decidedly in the west, the wind backed to SW or S very generally, rain fell at the Irish stations, and towards night the sky began to wear a less settled appearance, even in London. Over the Channel the day was very fine and fog occurred 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).

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# DAILY WEATHER REPORT.

for Tuesday 26<sup>th</sup> July

1887.

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.	
				Direc.	Force. (0 to 12.)		Reading at 32° F. and Sea Level.	Difference from 8 a.m. yesterday.	Dry.	Wet.	Difference from 8 a.m. yesterday.	Direc.	Force. (0 to 12.)			Max.	Min.		
		Inch.	°				Inch.	Inch.	°	°							°	°	Inch.
SCANDINAVIA.	Haparanda ..	29.61	55	W	2	c	29.59	+ .02	59	58	- 4	E	4	o	*	66	50	0.04	
	Hernösand ...	29.58	55	L	0	b	29.56	+ .04	56	54	- 2	NW	2	r	*	77	50	0.47	
	Stockholm ...	29.65	60	SE	2	r	29.76	+ .03	60	54	- 3	SW	4	c	*	73	55	0.59	
	Wisby ...	29.70	63	S	4	o	29.78	- .05	59	56	- 5	W	4	bc	*	73	55	-	
	Bodö ...	29.62	53	WSW	2	c	29.63	+ .26	50	48	- 1	WSW	6	bc	3	54	50	0.04	
	Christiansund...	29.59	52	WSW	4	c	29.70	+ .22	54	48	- 1	SW	3	c	3	55	45	-	
	Skudesnaes ...	29.73	54	WNW	2	c	29.80	+ .14	57	53	- 1	SSE	3	c	3	63	54	-	
	Christiania Fjord (Fjorder)	29.60	60	WSW	5	bc	29.76	+ .12	57	49	- 2	WNW	2	bc	3	61	55	-	
	Skagen (The Seaw)	29.67	55	W	3	b	29.80	+ .11	58	57	0	WNW	3	bc	2	64	52	-	
	Fanö ...	29.80	56	WSW	2	b	29.83	+ .09	60	60	- 1	SSE	2	b	*	63	52	-	
BRITISH ISLANDS.	Sumburgh Head	29.63	53	W	1	c	29.65	+ .07	55	50	+ 3	S	1	b	1	58	46	-	
	Stornoway ...	29.67	57	W	2	bc	29.51	- .14	56	54	+ 2	S	3	o	3	58	50	-	
	Wick ...	29.69	53	S	3	p	29.60	- .04	56	53	+ 1	S	2	b	0	59	43	0.18	
	Nairn ...	29.71	57	L	0	bc	29.60	- .09	60	55	+ 4	SW	1	bc	1	63	45	0.04	
	Aberdeen...	29.70	57	L	0	cp	29.67	- .04	60	55	- 1	SSW	2	b	0	66	45	0.13	
	Leith ...	29.75	60	WSW	2	c	29.64	- .12	64	56	+ 6	S	1	b	*	65	48	-	
	Shields ...	29.78	62	W	3	o	29.67	- .12	60	57	0	NE	1	b	2	66	51	-	
	Spurn Head ...	29.80	62	ESE	4	c	29.70	- .13	61	60	+ 1	W	3	om	3	63	59	-	
	York ...	29.79	66	W	2	b	29.71	- .12	58	54	- 2	N	1	b	*	70	52	-	
	Loughborough	29.79	70	NW	1	o	29.73	- .12	62	55	- 2	ESE	1	bm	*	75	53	-	
GERMANY.	Ardrossan ...	29.77	57	WSW	3	o	29.61	- .18	62	56	+ 3	SSE	3	b	2	62	52	0.03	
	Malin Head ...	29.74	56	WNW	2	up	29.41	- .38	59	59	+ 6	S	4	o	3	61	52	0.07	
	Mullaghmore ...	29.76	58	SSW	2	p	29.40	- .45	59	55	+ 4	SE	6	og	4	61	53	0.03	
	Belmullet ...	29.74	57	SSW	3	r	29.29	- .58	60	58	+ 2	S	8	o	*	60	55	0.04	
	Donaghadee ...	29.79	59	SSE	2	o	29.60	- .24	58	55	0	SSW	4	c	2	64	53	0.07	
	Barrow-in-Furness	29.81	60	W	2	c	29.68	- .15	58	54	+ 2	NE	3	b	*	63	53	-	
	Liverpool (Bidston)	29.82	62	WNW	1	c	29.68	- .17	62	53	+ 4	ESE	2	bc	2	65	54	-	
	Holyhead ...	29.83	58	SW	3	bc	29.65	- .23	62	?	- 3	SSE	3	c	2	66	51	-	
	Parsonstown ...	29.78	64	L	0	r	29.45	- .44	61	59	+ 2	SE	2	ogq	*	65	53	-	
	Valencia ...	29.76	61	SSE	6	o	29.26	- .56	63	62	+ 1	S	6	og	6	63	59	0.21	
FRANCE & NETHERLANDS.	Roche's Point...	29.82	62	SW	3	c	29.44	- .48	63	60	+ 3	SSW	5	bc	4	66	59	0.08	
	Pembroke ...	29.80	58	W	1	bc	29.64	- .26	60	58	+ 2	SE	4	bc	3	60	55	-	
	Scilly ...	29.85	63	L	0	o	29.62	- .29	63	63	0	S	5	od	5	67	59	0.03	
	Prawle Point ...	29.83	63	WSW	2	c	29.68	- .20	60	60	- 2	S	3	o	3	72	55	-	
	Jersey ...	29.86	68	W	3	bc	29.77	- .14	64	63	+ 1	SW	3	ogmpd	3	71	61	0.02	
	Hurst Castle ...	29.82	65	WSW	4	bc	29.76	- .09	62	60	- 2	SW	3	c	1	71	54	-	
	Dungeness ...	29.82	61	WSW	4	f	29.79	- .05	61	59	- 1	W	4	c	2	66	58	-	
	London ...	29.79	72	SSE	1	bc	29.76	- .09	65	59	+ 5	S	2	c	*	72	56	-	
	Oxford ...	29.78	65	WSW	1	bc	29.73	- .11	62	57	- 1	SW	1	b	*	75	54	-	
	Cambridge ...	29.77	68	SE	1	c	29.74	- .10	67	59	+ 4	SW	1	bc	*	79	54	-	
PENIN- SULA.	Yarmouth ...	29.83	64	SE	4	bc	29.75	- .07	65	60	+ 4	SW	3	bc	2	66	59	-	
	Cuxhaven ...	29.84	59	WNW	2	c	29.89	+ .06	61	59	- 4	S	1	c	*	71	59	-	
	Berlin ...	29.77	74	L	0	b	29.91	+ .04	64	59	- 3	NW	3	b	*	82	59	-	
	Wiesbaden ...	*	*	*	*	*	29.87	- .00	67	62	- 2	N	1	b	*	82	57	-	
	Munich ...	29.91	69	SW	2	o	29.95	- .01	67	62	+ 2	W	1	b	*	79	54	0.16	
	The Helder ...	29.82	62	L	0	o	29.80	+ .02	64	63	- 1	SSE	1	*	1	70	61	0.63	
	Brussels ...	*	*	*	*	*	29.81	- .05	71	63	+ 10	SSW	1	b	*	75	61	-	
	Cape Gris Nez...	29.83	62	SW	4	c	29.81	- .07	63	59	+ 5	SW	4	o	2	68	57	-	
	Paris ...	29.86	75	S	1	bc	29.87	- .07	64	60	+ 3	SSW	3	b	*	82	56	-	
	Brest ...	29.92	62	SSW	3	f	29.81	- .15	62	61	+ 1	S	4	o	3	75	55	0.08	
	Lorient ...	29.93	67	WSW	4	o	29.85	- .08	64	63	+ 2	W	3	c	2	70	61	-	
	Rochefort ...	30.00	66	NW	5	b	29.97	- .02	65	64	+ 2	SSW	4	o	2	72	61	-	
	Belfort ...	29.86	77	SW	1	b	29.94	+ .03	68	64	- 4	L	0	b	*	82	55	-	
	Lyons ...	29.83	75	NNW	3	c	29.89	- .01	67	64	- 4	NNE	1	b	*	83	61	1.14	
	Nice ...	29.82	72	SSW	3	b	29.79	- .10	68	61	- 10	NNE	4	o	2	86	63	0.04	
	Perpignan ...	29.93	66	L	0	r	29.89	+ .01	72	63	- 1	W	4	o	*	83	64	0.12	
	Biarritz ...	29.99	71	W	4	o	29.97	- .04	67	63	- 2	SW	4	o	2	73	64	-	
	Corunna ...	*	*	*	*	*	29.96	- .08	68	64	- 1	SW	4	o	1	72	63	-	
	Lisbon ...	30.12	69	NNW	5	c	30.09	- .07	67	64	+ 2	WNW	4	c	2	75	64	-	

For Explanation of Columns, see p. 4.



# WEATHER CHARTS

for 8 a.m. on

Tuesday, 26<sup>th</sup> July

1887.

## BAROMETER, WIND & SEA.

(Explanation of Map)

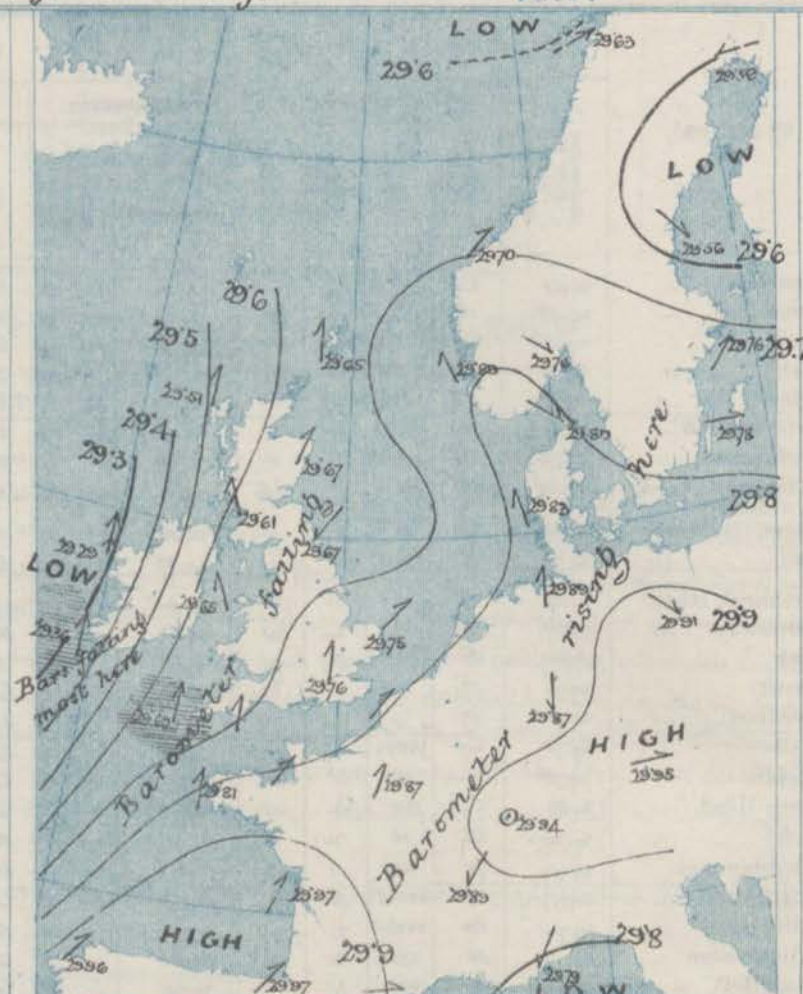
**Barometer** — Isobars are drawn for each tenth of an inch. Changes since previous morning are stated in words.  
**Wind** — Arrows show the prevalent winds. They fly with the wind and their barbs and feathers refer to force, thus —  
 — = forces above 10; — = forces 8 to 10;  
 — = forces 5 to 7; — = 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 10 Years 1871—1880.

STATIONS.	MEAN READINGS.
Sumburgh Head	29.827
Stornoway	29.799
Wick	29.813
Nairn	29.824
Aberdeen	29.829
Leith	29.848
Shields	29.873
York	29.902
Ardrossan	29.864
Donaghadee	29.878
Holyhead	29.914
Liverpool	29.910
Valencia	29.944
Roche's Point	29.940
Pembroke	29.942
Scilly	29.986
Hurst Castle	29.961
Dover	29.959
LONDON	29.955
Oxford	29.941
Cambridge	29.937
Yarmouth	29.934



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

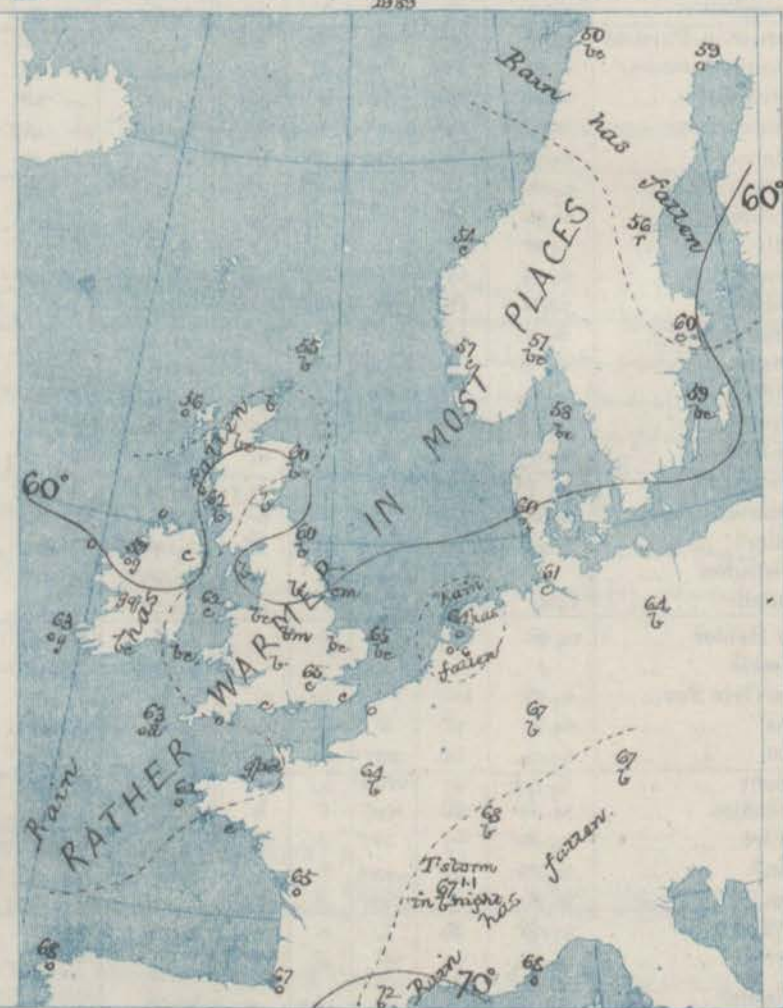
**Temperature** — Isotherms are drawn for each 10° Changes since previous morning are stated in words.  
**Weather** — is shown by Letters of the Beaufort Scale.  
**Rainfall** — A dotted line separates the districts in which rain has fallen from those where there has been none. Falls of 0.5 in. or more, 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	57.9	48.5	53.7	52.2	2.09
Stornoway	60.3	49.7	56.4	54.3	3.02
Wick	62.4	49.4	56.2	53.9	2.25
Nairn	65.0	51.6	57.4	53.7	2.57
Aberdeen	64.4	51.7	57.9	54.4	2.74
Leith	68.0	52.0	59.1	55.9	2.84
Shields	64.6	53.6	58.8	55.5	2.63
York	68.1	52.3	59.7	56.5	2.57
Ardrossan	64.0	53.8	57.8	54.8	2.91
Donaghadee	62.9	52.0	57.7	55.9	2.67
Holyhead	64.5	55.0	58.3	56.1	2.32
Liverpool	66.4	54.6	59.8	56.1	2.99
Valencia	64.5	53.9	59.0	56.2	3.91
Roche's Point	68.2	53.9	59.1	56.0	3.16
Pembroke	64.0	55.4	58.5	56.2	2.31
Scilly	65.0	56.9	60.3	58.2	2.29
Hurst Castle	67.9	56.4	61.7	59.2	2.15
Dover	67.4	57.5	63.0	59.2	1.82
LONDON	73.3	54.2	62.5	58.6	2.17
Oxford	69.9	53.7	60.4	57.1	2.51
Cambridge	72.5	52.8	61.3	58.0	2.30
Yarmouth	66.7	55.5	61.4	58.4	2.68

NOTE — The Temperature means are for the 10 years 1871—80, the Rainfall means are mainly those for the 10 years 1868—85.





# GENERAL SITUATION AT 8 A.M.

## PRESSURE

Highest, 30.0 ins and upwards over the Iberian peninsula, relatively high, 29.9 ins and upwards, over Germany.  
Lowest, 29.3 ins and less in a depression, the centre of which lies to the W. of Ireland.

## TEMPERATURE

Highest, 72° at Perpignan, 68° at Belfast, Nice and Corunna, and 67° at Cambridge, Wiesbaden, Munich, Lyons, Biarritz and Lisbon.  
Lowest, 50° at Rodez, 51° at Christiansund, 55° at Dunburgh Head and 58° at Hernessand, Stormoey and Wick.  
[During yesterday the thermometer rose to 75° at Loughborough and Offord and 79° at Cambridge.]

## WIND

S. or S.W. over the greater part of our islands and their neighbourhood; strong in the extreme west with a gale at Belmullet.  
Light W. in Germany and the south of Sweden; variable in the north-east of England.

## WEATHER

Bell on the west coasts of Ireland and France and also in the south-west of England, with drizzling rain at Scilly and Jersey.  
Fine in most other localities, but rainy at Hernessand.  
[Auroræ boreales were seen yesterday at several of the English stations.]

## SEA

Rough at Valencia and rather rough at Scilly, but moderate to smooth elsewhere.

## PROBABLE CHANGES IN SYSTEM NOW PREVALENT

The barometer continues to fall quickly in Ireland, and the depression which is advancing from the westward is evidently of considerable size and depth.

Its centre will probably move northwards along our western coasts, but there are some indications of the formation of secondary disturbances over England, and unsettled weather is therefore likely in most districts.

## FORECASTS

for the 24 hours ending at NOON on 27<sup>th</sup> July. 1887.

### DISTRICTS.

### FORECASTS.

0	SCOTLAND NORTH	S. winds increasing in force, fine to unsettled and some rain.
1	SCOTLAND EAST	D° ————— D°
2	ENGLAND N.E.	Variable or S.E. breezes, fine to dull and some rain.
3	ENGLAND EAST	Same as N° 5.
4	MIDLAND COUNTIES	Same as N° 5.
5	ENGLAND SOUTH	S.W. winds, freshening; changeable, some showers.

### DISTRICTS.

### FORECASTS.

6	SCOTLAND WEST	Same as N° 0.
7	ENGLAND N.W.	S.E. winds, freshening considerably, fair to dull and some rain.
8	ENGLAND S.W.	S. and S.W. winds, strong; cloudy, some rain.
9	IRELAND NORTH	S. to S.W. strong winds or gales; dull, squally, some rain.
10	IRELAND SOUTH	D° ————— D°
WARNINGS		The S. cone has been hoisted this morning in districts 6, 9 and 10.

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 ...	29.70	62	55	W 4	c	4	Holyhead ...	29.88	62	?	NNW 2	b	2
Sumburgh Head ...	29.61	55	51	W 2	c	1	Valencia ...	29.85	61	56	SSE 3	o	5
Stornoway ...	29.68	58	53	W 2	bc	2	Scilly ...	29.88	66	61	SSE 1	o	4
Aberdeen ...	29.70	60	54	S 3	bc	0	Dungeness ...	29.84	66	63	WSW 5	c	4
Shields ...	29.79	64	58	WSW 3	c	2	London ...	29.81	70	63	E 1	o	*
Ardrossan ...	29.79	60	53	WNW 3	o	2	Yarmouth ...	29.84	65	60	ENE 4	b	3
Malin Head ...	29.77	58	58	W 3	o	2	Jersey ...	29.89	66	60	SW 2	c	2
Mullaghmore ...	29.81	60	54	WNW 2	ow	2	Rocheport ...	30.01	68	66	NW 4	b	0
Belmullet ...	29.82	58	52	WSW 2	o	*							

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

The reports for yesterday morning showed that pressure then varied from 29.9 in: and more over nearly the whole of western and central Europe to rather below 29.4 in: over Lapland. Shallow local disturbances were found over the North Sea and south of England. The gradients were mainly favourable for W<sup>2</sup> to S<sup>2</sup> winds, and, being moderate, the winds reported were light to moderate in force. The weather was showery over the United Kingdom, Scandinavia, and the Baltic, but fair over France, Germany, Austria, and Western Russia, and thunderstorms had again occurred in the southwest of France during the preceding night. Temperature had decreased somewhat over the British Islands and their neighbourhood, and readings ranged from between 80° and 86° over the southern part of the Mediterranean to but little above 50° over Lapland. The highest individual values were 87° at Biskra (Algeria), 84° at Cagliari, 81° at Khendisi, 80° at Palermo and Malta, 79° at Palma, and 78° at Rome, Livorno and Nice; the lowest 51° at Bodö, 52° at Sumburgh Head, 54° at Stornoway, 58° at the Læsø, 60° in London and 61° at Paris.

Later in the day the weather improved a little over the United Kingdom, but the thermometer did not rise much above 70° over the greater part of the British Isles, though it reached 79° at Cambridge and 75° at Oxford and 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 Wednesday 27<sup>th</sup> JULY.

1887.

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 9.)	SHADE TEMP.		Amount of Rainfall.			
			Dir.	Force (0 to 12.)		Reading at 8° 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	52	ESE	6	r	29.86	+ .27	57	52	— 2	NW	4	b	*	61	50	0.35		
Hernösand ...	29.85	55	?	2	bc	29.98	+ .42	59	54	+ 3	NW	3	b	*	73	54	—		
Stockholm ...	29.92	61	2	0	o	30.02	+ .26	67	56	+ 7	SE	2	b	*	72	52	—		
Wisby ...	29.90	59	S	4	b	29.95	+ .17	66	60	+ 7	SSW	4	b	*	73	55	—		
Bodö ...	29.76	51	WSW	4	c	29.82	+ .14	62	50	+ 2	ENE	2	o	1	54	46	—		
Christiansund...	29.78	53	ENE	2	c	29.86	— .14	62	53	+ 8	ESE	3	c	2	63	45	—		
Skudesnaes ...	29.75	58	SSE	6	o	29.49	— .31	61	59	+ 4	SSE	8	b	5	61	57	—		
Christiania Fjord (Færder)	29.85	59	SSW	4	c	29.83	+ .07	59	57	+ 2	E	4	r	3	63	57	—		
Skagen (The Scaw)	29.86	60	S	1	bc	29.79	— .01	63	60	+ 5	S	4	c	3	68	57	0.04		
Fanö ...	29.77	61	SSE	6	c	29.68	— .15	68	63	+ 8	SSE	6	c	*	68	57	—		
BRITISH ISLANDS.																			
Sumburgh Head	29.52	54	SSE	3	o	29.11	— .54	55	54	0	SW	2	m	4	58	52	0.24		
Stornoway ...	29.30	58	S	3	r	29.05	— .46	57	56	+ 1	SW	5	cp	5	63	54	0.23		
Wick ...	29.34	56	S	2	o	29.15	— .45	62	57	+ 6	SSW	4	bc	3	63	52	0.50		
Nairn ...	29.28	65	2	0	o	29.14	— .46	63	58	+ 3	SSW	3	o	1	70	55	0.10		
Aberdeen...	29.41	57	SSE	5	o	29.24	— .43	62	59	+ 2	S	4	b	2	64	55	0.26		
Leith ...	29.37	66	S	1	r	29.25	— .39	64	58	0	SW	3	c	*	72	58	0.14		
Shields ...	29.43	61	E	3	o	29.36	— .31	63	61	+ 3	SSW	4	c	3	67	57	0.05		
Spurn Head ...	29.55	71	S	4	b	29.49	— .21	65	63	+ 4	SW	5	b	3	74	59	0.07		
York ...	29.49	74	S	3	o	29.45	— .26	63	60	+ 5	S	3	c	*	75	52	0.17		
Loughborough	29.55	67	SSW	4	c	29.53	— .20	65	61	+ 3	SW	6	c	*	79	57	0.18		
Ardrossan ...	29.28	59	SSE	7	r	29.23	— .38	60	57	— 2	SSW	4	o	3	64	56	0.22		
Malin Head ...	29.09	59	S	5	op	29.10	— .31	56	56	— 3	S	3	or	2	63	52	0.63		
Mullaghmore ...	29.13	65	WSW	5	bc	29.17	— .23	61	58	+ 2	WSW	6	bc	6	65	53	0.88		
Belmullet ...	29.12	63	SW	6	bc	29.22	— .07	60	57	0	W	5	c	*	64	58	0.36		
Donaghadee ...	29.25	58	SW	6	o	29.26	— .34	59	57	+ 1	SW	6	c	4	59	52	0.25		
Barrow-in-Furness	29.37	66	SSE	5	r	29.38	— .30	61	61	+ 3	SE	7	bc	*	69	57	0.21		
Liverpool (Bidston)	29.40	63	SE	4	r	29.42	— .26	65	59	+ 3	SW	4	c	3	74	57	0.31		
Holyhead ...	29.35	60	S	6	r	29.38	— .27	60	60	— 2	SSW	5	cmq	5	68	57	0.44		
Parsonstown ...	29.24	65	SW	2	bc	29.33	— .12	60	58	— 1	SW	1	om	*	66	55	0.17		
Valencia ...	29.26	63	SW	6	c	29.47	+ .11	61	58	— 2	WSW	6	c	6	67	57	0.51		
Roche's Point...	29.33	65	WSW	5	bc	29.45	+ .01	62	58	— 1	W	5	bc	4	66	58	0.32		
Pembroke ...	29.38	60	S	5	r	29.50	— .14	61	60	+ 1	SW	6	bc	6	62	57	0.83		
Scilly ...	29.48	64	SSW	6	o	29.66	+ .04	64	62	+ 1	WSW	6	cp	6	66	58	0.45		
Prawle Point ...	29.61	60	SSW	6	f	29.67	— .01	63	61	+ 3	SSW	6	cm	6	64	50	0.17		
Jersey ...	29.71	64	SSW	3	o	29.76	— .01	66	62	+ 2	SW	5	bm	4	72	62	—		
Hurst Castle ...	29.65	66	SSW	5	o	29.70	— .06	64	61	+ 2	SW	6	c	5	68	60	0.20		
Dungeness ...	29.71	64	SW	3	c	29.70	— .09	62	61	+ 1	WSW	4	c	4	70	60	0.09		
London ...	29.66	70	SW	3	c	29.67	— .09	65	61	0	SW	4	c	*	76	62	0.15		
Oxford ...	29.58	64	S	4	r	29.61	— .11	64	60	+ 2	SW	2	b	*	74	59	0.17		
Cambridge ...	29.60	70	SSW	3	c	29.61	— .12	67	61	0	SSW	3	bc	*	79	60	0.04		
Yarmouth ...	29.64	71	S	5	bc	29.60	— .15	68	65	+ 3	SSW	5	bc	3	71	61	0.06		
Cuxhaven ...	29.85	63	ESE	1	b	29.88	— .09	70	67	+ 9	S	2	b	*	71	?	—		
Berlin ...	29.89	74	NE	1	b	29.91	00	70	65	+ 6	ESE	4	b	*	79	63	—		
Wiesbaden ...	*	*	*	*	*	29.94	+ .07	67	62	0	SW	1	b	*	82	59	—		
Munich ...	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*		
FRANCE & NETHERLANDS.																			
The Helder ...	29.75	68	SSW	1	c	29.71	— .09	65	62	+ 1	SSW	4	r	2	75	61	—		
Brussels ...	*	*	*	*	*	29.85	+ .04	67	64	— 4	SSW	4	o	*	84	64	0.04		
Cape Gris Nez...	29.74	67	SSW	1	c	29.77	— .09	64	64	+ 1	SW	7	c	5	73	63	0.08		
Paris ...	29.82	76	SW	3	bc	29.89	+ .02	65	63	+ 1	SW	4	c	*	81	64	—		
Brest ...	29.72	62	SW	7	r	29.79	— .02	61	60	— 1	SSW	7	o	5	75	56	0.12		
Lorient ...	29.77	64	SW	5	f	29.82	— .03	64	62	0	WNW	5	bc	5	68	61	0.20		
Rocheport ...	29.95	68	WSW	5	o	29.99	+ .02	67	65	+ 2	SSW	5	o	2	77	64	—		
Belfort ...	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*		
Lyons ...	29.85	75	NNE	1	b	30.00	+ .11	69	63	+ 2	W	1	b	*	79	60	—		
Nice ...	29.84	75	2	0	c	29.94	+ .15	74	62	+ 6	E	1	b	1	82	66	—		
Perpignan ...	29.89	61	N	1	b	29.97	+ .08	70	67	— 2	N	1	c	*	83	62	—		
Biarritz ...	29.90	74	NE	4	b	29.99	+ .02	72	68	+ 5	NE	1	b	0	77	66	—		
Corunna ...	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*		
Lisbon ...	30.08	73	NW	5	o	30.13	+ .04	70	64	+ 3	N	4	c	2	75	?	—		

For Explanation of Columns, see p. 4.



# WEATHER CHARTS

for 8 a.m. on WEDNESDAY 27<sup>th</sup> July, 1887.

## 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.

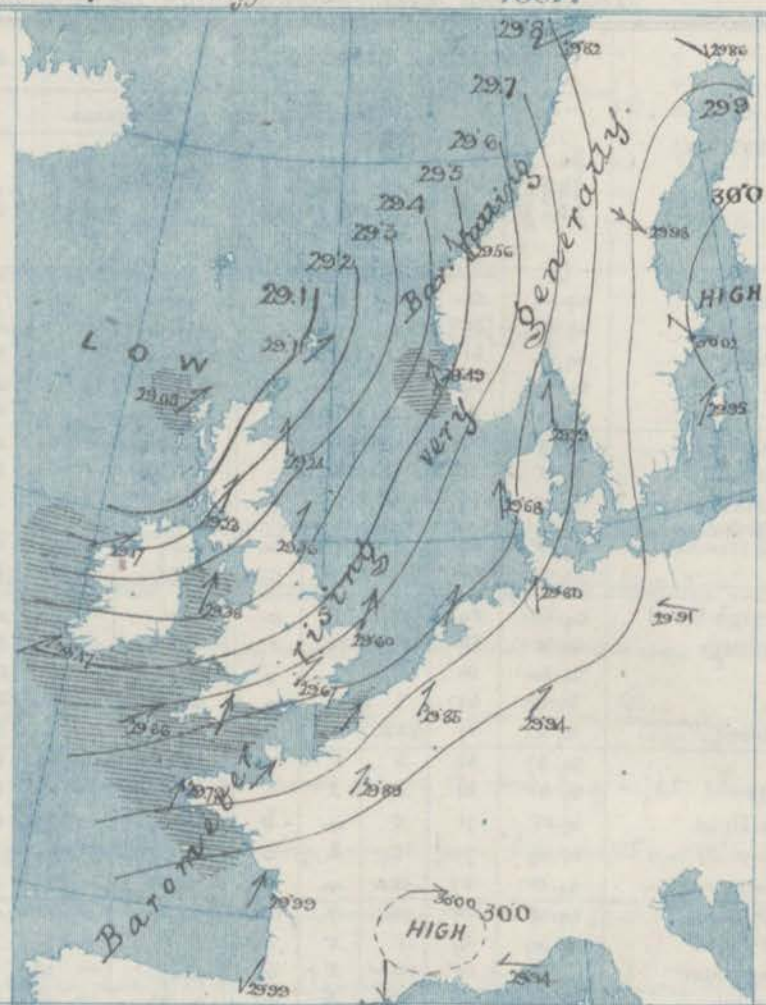
**Sea Disturbance** — where considerable is shown thus

— Rough. — High.

## MEAN HEIGHT of the BAROMETER

at 8 a.m. for the month of July.  
During the 10 Years 1871—1880.

STATIONS.	MEAN READINGS.
	in.
Sumburgh Head	29.827
Stornoway	29.799
Wick	29.813
Nairn	29.824
Aberdeen	29.829
Leith	29.848
Shields	29.873
York	29.902
Ardrossan	29.884
Donaghadee	29.878
Holyhead	29.914
Liverpool	29.910
Valencia	29.944
Roche's Point	29.940
Pembroke	29.942
Scilly	29.986
Hurst Castle	29.961
Dover	29.959
LONDON	29.955
Oxford	29.941
Cambridge	29.937
Yarmouth	29.934



## 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	57.9	48.5	53.7	52.2	2.09
Stornoway	60.3	49.7	56.4	54.3	3.02
Wick	62.4	49.4	56.2	53.9	2.25
Nairn	65.0	51.6	57.4	53.7	2.57
Aberdeen	64.4	51.7	57.9	54.4	2.74
Leith	68.0	52.0	59.1	55.9	2.84
Shields	64.6	53.6	58.8	55.5	2.63
York	68.1	52.3	59.7	56.5	2.57
Ardrossan	64.0	53.8	57.8	54.8	2.91
Donaghadee	62.9	52.0	57.7	55.9	2.07
Holyhead	64.5	55.0	58.3	56.1	2.32
Liverpool	66.4	54.6	59.8	56.1	2.99
Valencia	64.5	53.9	59.0	56.2	3.91
Roche's Point	68.2	53.9	59.1	56.0	3.16
Pembroke	64.0	55.4	58.5	56.2	2.31
Scilly	65.0	56.9	60.3	58.2	2.29
Hurst Castle	67.9	56.4	61.7	59.2	2.15
Dover	67.4	57.5	63.0	59.2	1.82
LONDON	73.3	54.2	62.5	58.6	2.17
Oxford	69.9	53.7	60.4	57.1	2.51
Cambridge	72.5	52.8	61.3	58.0	2.30
Yarmouth	66.7	55.5	61.4	58.4	2.68

NOTE — The Temperature means are for the 10 years 1871—80, 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 in the neighbourhood of Lisbon, 30.0 ins and upwards over the Baltic. Lowest, 29.1 ins and less in a depression the centre of which lies off the west and north-west of Scotland. (A recovery of pressure is now in progress over the whole of our islands and France.)
TEMPERATURE	Highest, 74° at Nice 72° at Biarritz, 70° at Copenhagen, Berlin, Perpignan and Lisbon, and 68° at Harwich. Lowest, 52° at Rods, 55 at Lumburgh Head, 56° at Malin Head and 57° at Haparanda and Hornöway. (During yesterday the thermometer rose to 76° in London and 79° at Loughborough and Cambridge.)
WIND	Strong, S.W. on our western and southern coasts; moderate from the same quarter in the north and east. Strong from S or S.E. on the eastern shores of the North Sea. Variable in the south of France.
WEATHER	Fair generally, but cloudy and showery on our extreme north west coasts. [Rain fell generally yesterday, the largest amount being 0.9 in at Mullaghmore, 0.8 in at Pembroke, 0.6 in at Malin Head, 0.5 in at Hornöway, York Water and Bally.]
SEA	Rough or rather so on our western and southern coasts, but moderate to smooth elsewhere.

## PROBABLE CHANGES IN SYSTEM NOW PREVALENT

The depression in the north-west will probably move away to the northward, but the distribution of pressure is favourable for the advance of secondary disturbances over our islands, and showers are therefore likely in most places.

## FORECASTS

for the 24 hours ending at NOON on 28<sup>th</sup> July 1887.

DISTRICTS.	FORECASTS.	DISTRICTS.	FORECASTS.
0 { SCOTLAND NORTH	S <sup>ly</sup> and S.W <sup>ly</sup> winds, moderate or fresh, fair generally, but some showers.	6 { SCOTLAND WEST	Same as N° 0
1 { SCOTLAND EAST	----- D° ----- D°	* 7 { ENGLAND N. W.	S.W <sup>ly</sup> and W <sup>ly</sup> winds, strong; squally, some showers.
2 { ENGLAND N. E.	----- D° ----- D°	* 8 { ENGLAND S. W.	----- D° ----- D°
3 { ENGLAND EAST	Same as N° 5.	* 9 { IRELAND NORTH	----- D° ----- D°
4 { MIDLAND COUNTIES	Same as N° 5.	* 10 { IRELAND SOUTH	----- D° ----- D°
* 5 { ENGLAND SOUTH	S.W <sup>ly</sup> winds, strong; squally, some showers.		

### WARNINGS

The signals have been lowered this morning in districts 0, 1, and 6.  
An asterisk is inserted against those districts in which the signals are now flying.

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.		
Skudeenaes ...	29.81	61	50	SSE	6	c	4	Holyhead ...	29.48	63	?	S	5	rmqj	4
Sumburgh Head ...	29.60	58	55	SSE	3	b	3	Valencia ...	29.27	67	64	SW	5	c	6
Stornoway ...	29.33	62	59	S	3	c	3	Scilly ...	29.53	63	63	SSW	5	r	5
Aberdeen ...	29.56	61	58	SSE	4	c	1	Dungeness ...	29.75	69	65	WSW	4	b	2
Shields ...	29.57	61	59	E	4	c	3	London ...	29.70	73	62	SW	4	bc	*
Ardrossan ...	29.45	63	56	SE	5	o	3	Yarmouth ...	29.71	68	64	SSE	5	c	4
Malin Head ...	29.18	56	50	S	5	o	4	Jersey ...	29.74	71	66	SE	3	bc	3
Mullaghmore ...	29.21	61	60	SSW	6	or	4	Rochefort ...	29.97	73	67	WSW	5	c	2
Belmullet ...	29.15	60	59	SW	5	r	*								

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

Yesterday morning's reports showed that pressure varied from a little above 29.9 ins. over Spain, the southwest of France, Belgium and western Russia to about 29.6 ins. over the Gulf of Bothnia and to rather below 29.3 ins. off the west of Ireland. Thus while freshening S<sup>W</sup> winds had become prevalent over the United Kingdom and the north of France, NW to W<sup>W</sup> breezes were reported in Sweden and SW winds over the Gulf of Finland. The weather had become somewhat showery over Western and Northwestern Europe generally, and thunderstorms had again been prevalent in France over night. Temperature had decreased and varied from about 90° over the southern part of Algeria and from 80° and more over the southern part of the Mediterranean to between 50° and 60° over Scotland and Scandinavia. The highest individual values were 90° at Sfax, 82° at Biskra (Algeria) and Cagliari, 80° at Palermo, 77° at Naples and Langunaria, 76° at Livorno and Constantinople; the lowest were 51° at Bodö, 54° at Christiansund, 53° at Sumburgh Head and 56° at Stornoway.

During the day showery weather continued prevalent over the United Kingdom and the wind rose to a moderate gale from the S<sup>W</sup> in many places as a depression in the far west moved northwards.

### 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 28<sup>th</sup> July

1887.

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 ...	29.93	59	S	6	b	29.89	+ .03	60	56	+ 3	S	6	bc	*	68	48	—
	Hernösand ...	29.88	59	S	4	c	29.79	— .19	58	56	— 1	S	6	c	*	68	45	0.04
	Stockholm ...	30.00	59	SE	2	bc	29.94	— .08	67	62	0	SSW	2	o	*	72	54	—
	Wisby ...	29.94	60	ESE	4	b	29.91	— .04	68	64	+ 2	SE	2	bc	*	75	55	—
	Bodö ...	29.58	61	SW	4	o	29.50	— .32	69	57	+ 7	E	4	r	2	66	52	0.16
	Christiansund...	29.41	60	SW	2	c	29.55	— .01	61	55	— 1	SSW	3	c	1	68	54	—
	Skudesnaes ...	29.56	59	SSE	6	of	29.83	+ .34	58	55	— 3	SSW	6	c	5	61	?	—
	Christiania Fjord (Fjorder)	29.71	62	SSW	5	r	29.82	— .01	62	59	+ 3	SW	5	b	4	64	59	0.35
	Skagen (The Scaw)	29.74	63	SSW	2	o	29.95	+ .16	62	60	— 1	W	2	bc	3	66	57	0.20
	Faenø ...	29.80	62	SSW	4	bc	29.95	+ .27	67	62	— 1	WSW	4	bc	*	72	61	0.04
BRITISH ISLANDS.	Sumburgh Head	29.24	55	Z	0	o	29.54	+ .43	50	52	+ 1	WSW	4	bc	4	61	52	0.22
	Stornoway ...	29.20	59	W	6	c	29.55	+ .50	59	57	+ 2	W	6	cp	6	62	51	0.24
	Wick ...	29.26	60	W	4	bc	29.66	+ .51	61	56	— 1	SW	5	b	3	63	50	0.10
	Nairn ...	29.31	61	SSW	3	c	29.65	+ .51	62	57	— 1	SSW	3	b	1	68	53	0.07
	Aberdeen...	29.36	66	SW	6	b	29.74	+ .50	58	55	— 4	SSW	2	o	1	69	51	0.02
	Leith ...	29.45	63	SW	4	bc	29.78	+ .53	61	56	— 3	SW	4	c	*	70	54	0.47
	Shields ...	29.54	65	SW	5	cp	29.87	+ .51	61	59	— 2	SSW	4	o	2	71	54	—
	Spurn Head ...	29.66	70	SSW	6	b	29.98	+ .49	66	62	+ 1	SSW	3	b	2	73	56	—
	York ...	29.64	68	SW	5	o	29.95	+ .50	62	58	— 1	SSW	3	c	*	74	54	0.03
	Loughborough	29.74	70	WSW	4	c	30.00	+ .47	64	60	— 1	SW	4	bc	*	75	56	—
GERMANY.	Ardrossan ...	29.51	60	WSW	5	c	29.77	+ .54	59	56	— 1	SSW	3	o	2	62	55	0.10
	Malin Head ...	29.45	59	W	6	oq	29.62	+ .52	58	56	+ 2	S	4	ag	3	63	55	0.09
	Mullaghmore ...	29.58	61	WSW	7	c	29.68	+ .51	60	56	— 1	S	6	o	5	64	56	—
	Belmullet ...	29.59	60	WSW	6	c	29.62	+ .40	60	58	0	S	4	r	*	62	58	0.06
	Donaghadee ...	29.60	65	WNW	5	bc	29.76	+ .50	62	58	+ 3	SW	4	c	2	68	52	0.11
	Barrow-in-Furness	29.63	63	SW	5	bc	29.87	+ .49	63	62	+ 2	S	6	c	*	65	59	—
	Liverpool (Bidston)	29.69	67	WSW	4	c	29.92	+ .50	62	58	— 3	SSE	2	o	3	74	56	—
	Holyhead ...	29.69	61	SW	5	bc	29.88	+ .50	60	60	0	SSW	3	opm	3	65	56	0.07
	Parsonstown ...	29.71	62	WSW	3	o	29.76	+ .43	62	59	+ 2	SSE	2	cg	*	66	56	0.09
	Valencia ...	29.75	63	SSW	5	cm	29.69	+ .22	63	60	+ 2	SSE	7	ogw	6	66	57	0.02
FRANCE & NETHERLANDS.	Roche's Point...	29.78	63	WSW	4	c	29.78	+ .33	60	57	— 2	SSW	4	o	4	67	57	—
	Pembroke ...	29.80	61	SW	5	bc	29.91	+ .41	61	61	0	SW	4	ag	3	62	58	0.02
	Scilly ...	29.89	66	WSW	5	bc	29.95	+ .29	67	64	+ 3	SSW	4	c	6	70	60	0.02
	Prawle Point ...	29.91	63	SW	3	b	30.04	+ .37	60	60	— 3	S	4	om	4	67	57	—
	Jersey ...	29.97	67	WNW	4	bc	30.10	+ .34	63	61	— 3	SSW	3	ef	3	70	58	—
	Hurst Castle ...	29.90	66	SW	7	b	30.09	+ .39	62	62	— 2	SW	3	m	3	68	?	—
	Dungeness ...	29.86	64	W	6	c	30.11	+ .41	62	61	0	WSW	4	o	3	68	59	—
	London ...	29.83	71	WSW	4	bc	30.08	+ .41	66	60	+ 1	SW	3	bc	*	75	55	—
	Oxford ...	29.89	63	WSW	3	b	30.06	+ .44	62	58	— 2	S	3	c	*	70	54	0.01
	Cambridge ...	29.79	72	SSW	4	b	30.06	+ .44	65	61	— 2	SSW	2	bc	*	77	51	—
PENINSULA.	Yarmouth ...	29.75	74	WSW	5	cg	30.05	+ .45	66	61	— 2	WSW	3	b	2	77	58	—
	Cuxhaven ...	29.85	67	SSW	2	bc	30.06	+ .26	65	63	— 3	SW	3	m	*	76	62	0.05
	Berlin ...	29.99	73	S	1	o	30.12	+ .21	70	62	0	NNW	3	b	*	88	66	0.12
	Wiesbaden ...	*	*	*	*	*	30.19	+ .25	70	65	+ 3	Z	0	c	*	82	61	—
	Munich ...	30.13	69	Z	0	b	30.28	*	70	64	*	NNW	1	o	*	81	61	—
	The Helder ...	29.85	65	SW	4	b	30.08	+ .37	65	61	0	SW	3	bc	2	72	63	—
	Brussels ...	*	*	*	*	*	30.15	+ .30	65	60	— 2	W	3	bc	*	75	61	0.08
	Cape Gris Nez...	29.89	64	WSW	8	b	30.12	+ .40	61	60	— 3	WSW	4	o	4	68	57	—
	Paris ...	29.98	72	SSW	3	bc	30.16	+ .27	60	59	— 5	Z	0	b	*	81	56	0.12
	Brest ...	30.01	63	SW	4	o	30.06	+ .27	61	60	0	S	4	c	4	75	55	—

For Explanation of Columns, see p. 4.



for 8 a.m. on Thursday, 23<sup>th</sup> July, 1887.

(Explanation of Map)

Wind — Arrives with the wind and their barbs and feathers refer to force, thus —

⑤ = dead calm.

 = Rough,  = High

at 8 a.m., for the month of July.  
During the 10 Years 1871—1880.

[illegible]

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.

for the month of July.

[illegible]

*Note*—The Temperature means are for the 10 years 1871–80, 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 in anticyclonic areas lying respectively over North Germany and the west of France.  
Lowest, 29.5 ins and less off the north-west of Norway; 29.6 ins and less off the west of Ireland.

## TEMPERATURE

Highest, 77° at Poppiam, 76° at Nice, 73° at Belfort, 71° at Biarritz and 70° at Berlin, Wiesbaden and Muenchen.  
Lowest, 56° at St. Petersburg Head, 58° at Helsingland, Aberdeen and Malin Head and 57° at Bodø, Hornøya and Andøya.

## WIND

Light or moderate from W in Germany; variable in the east and south of France.  
S.W. elsewhere; moderate or fresh in force generally but strong in the west of Ireland.

## WEATHER

Fair generally, but dull at several of our western and north-western stations, with rain at Belmullet, and passing showers at Hornøya and Holyhead.  
[Showers fell yesterday in nearly all parts of the United Kingdom]

## SEA

Rough at Hornøya, Valencia and Scilly and rather rough at Helsingland, but moderate to smooth elsewhere.

## PROBABLE CHANGES IN SYSTEM NOW PREVALENT

The large depression which lay to the north-westward of our islands yesterday morning subsequently travelled away in a north-north-easterly direction and in its rear the barometer rose generally.

At Valencia, however, a new and somewhat decided fall of the mercury has set in since ten pm, with a backing and increasing wind and there can be no doubt that a fresh disturbance is approaching the west of Ireland. The system will probably move northwards and a considerable increase of wind is likely on our western and northern coasts.

## FORECASTS

For the 24 hours ending at NOON on 29<sup>th</sup> July 1887.

### DISTRICTS.

### FORECASTS.

0	SCOTLAND NORTH	SW <sup>ly</sup> winds, moderate to S <sup>ly</sup> strong, fair to unsettled and some rain.
1	SCOTLAND EAST	----- D° ----- D° -----
2	ENGLAND N.E.	Same as N° 5.
3	ENGLAND EAST	Same as N° 5.
4	MIDLAND COUNTIES	Same as N° 5.
5	ENGLAND SOUTH	SW <sup>ly</sup> and S <sup>ly</sup> winds, moderate to strong, fair to squally and showery.

### DISTRICTS.

### FORECASTS.

6	SCOTLAND WEST	S <sup>ly</sup> winds, moderate to strong, dull, some rain.
* 7	ENGLAND N.W.	S <sup>ly</sup> winds, increasing in force; squally, some rain.
* 8	ENGLAND S.W.	----- D° ----- D° -----
* 9	IRELAND NORTH	S <sup>ly</sup> winds, increasing to a gale, squally, some rain.
* 10	IRELAND SOUTH	----- D° ----- D° -----

### WARNINGS

The S. cone has been rehoisted this morning in districts 9 and 10, but lowered in district 5.  
An asterisk is inserted against those districts in which the signals are still flying.

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.		
Skudeenæs ...	29.49	60	59	SSE	8	r	5	Holyhead ...	29.50	63	?	SSW	5	bcmg	5
Sumburgh Head ...	29.21	60	59	SW	3	b	5	Valencia ...	29.69	66	59	WSW	5	cmy	6
Stornoway ...	29.15	58	58	W	5	r	5	Scilly ...	29.82	69	65	WSW	4	c	6
Aberdeen ...	29.27	63	59	S	5	cp	3	Dungeness ...	29.80	68	64	W	6	b	5
Shields ...	29.43	68	63	SW	6	cp	2	London ...	29.74	75	64	SSW	5	cq	9
Ardrossan ...	29.34	60	58	SSW	3	c	2	Yarmouth ...	29.67	76	67	SW	5	bq	4
Malin Head ...	29.31	58	57	W	6	o	4	Jersey ...	29.91	69	62	W	5	b	4
Mullaghmore ...	29.46	62	56	W	8	c	6	Rocheport ...	30.08	69	67	WSW	7	o	3
Belmullet ...	29.49	61	55	W	6	c	*								

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

The reports for yesterday morning showed that pressure varied from between 29.9 and 30.1 ins. over Russia, Austria, Germany, the south of France and the whole of Spain and Portugal, to about 29.0 ins. off the extreme northwestern part of the British Isles, in which region there was a large depression, moving northeastwards. Fresh to strong SW<sup>2</sup> winds and occasional showers prevailed over Ireland, England, and the north of France, S<sup>3</sup> winds in the east of Scotland, and SE<sup>2</sup> in the coast of Norway, while over the more southern and eastern parts of the Continent the wind was light and very variable, and the weather fine and bright. Temperature ranged from 80° and more over many parts of the Mediterranean to a little above 50° in the north of Norway, its distribution between these extreme points being comparatively regular. The highest individual values were 84° at Cagliari, 82° at Malta, 81° at Barcelona and Trieste, 79° at Algiers and 78° at Constantinople and Langueira; the lowest 52° at Bodø, 56° at Malin H<sup>d</sup>, Kuopio, and Uleaborg, 57° at Haparanda, 59° at Oco (Christiansund).

(During the day the depression in the northwest moved away to the northwest, and the weather improved temporarily, and temperature rose to between 75° and 77° over England during the afternoon.)

### 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 29<sup>th</sup> July 1887.  
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 12 P.M. and Sea Level.	Temp. in Shade.	WIND.		Weather.		BAROMETER.		SHADE TEMP.			WIND.		Weather.	Sea (0 to 9.)		SHADE TEMP.		Amount of Rainfall.
			Dir.	Force (0 to 12.)			Reading at 8 A.M. and Sea Level.	Difference from 8 A.M. yesterday.	Dry.	Wet.	Difference from 8 A.M. yesterday.	Dir.	Force (0 to 12.)				Max.	Min.	
SCANDINAVIA.	Haparanda ...	29.77	57	S	4	0	29.85	- .04	64	58	+ .4	NW	2	b	*		68	55	-
	Hernösand ...	29.82	60	2	0	bc	29.99	+ .20	60	56	+ 2	NE	2	bc	*		68	55	-
	Stockholm ...	30.02	65	W	2	b	30.10	+ .16	65	57	- 2	SSW	2	b	*		79	55	-
	Wisby ...	29.97	66	SW	2	b	30.10	+ .19	66	61	- 2	W	4	b	*		81	59	-
	Bodö ...	29.71	54	WSW	6	r	29.81	+ .31	53	52	- 6	SW	4	r	3		59	30	0.87
	Christiansund ...	29.80	57	SW	3	c	29.85	+ .30	58	53	- 3	ESE	3	o	2		71	52	0.08
	Skudesnaes ...	29.97	59	S	6	of	29.91	+ .08	61	56	+ 3	SSE	6	o	5		63	57	-
	Christiania Fjord (Furder)	29.99	61	SW	5	b	30.05	+ .23	61	58	- 1	SSW	3	c	3		63	59	-
	Skagen (The Scaw)	30.06	59	WSW	1	o	30.08	+ .13	59	57	- 3	WSW	1	o	0		70	55	-
	Fanö ...	30.07	58	WSW	1	b	30.02	+ .07	67	63	0	SSE	4	c	*		68	54	-
BRITISH ISLANDS.	Sumburgh Head	29.71	55	SW	1	r	29.55	+ .01	55	55	+ 1	SSE	4	o	5		60	52	0.05
	Stornoway ...	29.56	58	SW	5	o	29.34	- .21	58	57	- 1	SW	7	op	6		61	56	0.06
	Wick ...	29.67	60	S	3	bc	29.47	- .19	60	58	- 1	SSE	5	b	3		64	50	0.01
	Nairn ...	29.65	66	SSW	2	c	29.48	- .17	65	59	+ 3	SSW	5	b	2		68	60	-
	Aberdeen ...	29.75	60	S	4	c	29.60	- .14	59	57	+ 1	S	4	c	2		61	56	0.05
	Leith ...	29.77	63	S	3	c	29.63	- .15	64	57	+ 3	SW	5	bc	*		68	59	-
	Shields ...	29.85	67	SSW	3	o	29.74	- .13	63	61	+ 2	SSW	4	cp	2		70	58	-
	Spurn Head ...	29.94	71	SSW	3	bc	29.88	- .10	65	62	- 1	SSW	5	bc	3		75	59	-
	York ...	29.92	70	SSW	2	o	29.80	- .12	62	59	0	S	3	o	*		75	57	-
	Loughborough	29.96	71	SSW	3	c	29.90	- .06	64	61	0	SSW	4	cq	*		74	59	0.01
GERMANY.	Ardrossan ...	29.72	61	SSE	5	p	29.60	- .17	60	57	+ 1	SSW	6	o	4		61	57	0.06
	Malin Head ...	29.57	65	S	5	og	29.47	- .15	60	55	+ 2	SW	5	bcq	4		66	50	0.17
	Mullaghmore ...	29.49	65	SSE	9	op	29.55	- .13	58	57	- 2	WSW	6	cp	5		67	50	0.13
	Belmullet ...	29.48	64	SW	6	bc	29.58	- .04	60	55	0	W	7	bc	*		64	57	0.23
	Donaghadee ...	29.71	61	SW	6	o	29.65	- .11	62	57	0	SW	6	bc	4		66	58	-
	Barrow-in-Furness	29.85	64	SSW	4	bc	29.77	- .10	67	62	+ 4	SW	6	bc	*		68	59	0.12
	Liverpool (Bidston)	29.88	66	S	3	c	29.8	- .11	64	57	+ 2	SSW	3	c	3		70	60	0.02
	Holyhead ...	29.98	63	S	5	cmq	29.76	- .12	61	57	+ 1	SSW	5	cmq	5		65	57	0.24
	Parsonstown ...	29.64	64	SSE	3	r	29.69	- .07	59	58	- 3	SW	1	cp	*		67	55	0.07
	Valencia ...	29.60	64	SSW	7	cmv	29.80	+ .11	60	57	- 3	WNW	5	cpq	5		66	55	0.34
FRANCE & NETHERLANDS.	Roche's Point...	29.70	61	SW	6	r	29.79	+ .01	60	57	0	WSW	4	bc	4		63	58	0.40
	Pembroke ...	29.88	63	SSW	5	c	29.87	- .04	62	60	+ 1	SW	5	bcq	5		65	58	0.19
	Scilly ...	29.91	66	S	5	c	29.94	- .01	63	61	- 4	WSW	4	om	6		71	59	0.13
	Prawle Point ...	30.03	63	S	3	c	29.97	- .07	61	61	+ 1	WSW	3	om	3		66	58	0.02
	Jersey ...	30.08	69	SSE	2	bcv	30.02	- .08	67	64	+ 4	SSW	4	ogm	3		71	59	-
	Hurst Castle ...	30.07	66	SSW	3	bc	29.98	- .11	64	63	+ 2	SW	4	cfr	4		69	61	-
	Dungeness ...	30.08	66	SW	2	c	30.01	- .10	64	62	+ 2	SW	3	bc	2		68	60	-
	London ...	30.06	70	SSW	3	bc	29.99	- .09	69	63	+ 3	SW	3	c	*		75	59	-
	Oxford ...	30.01	64	S	3	b	29.94	- .12	63	60	+ 1	S	1	od	*		70	58	-
	Cambridge ...	30.01	71	SSW	3	bc	29.95	- .11	68	62	+ 3	SSW	2	c	*		77	56	-
PENIN. SULA.	Yarmouth ...	30.03	68	SSE	5	b	29.98	- .07	70	62	+ 4	SSW	3	b	3		70	61	-
	Cuxhaven ...	30.16	62	N	2	b	30.10	+ .04	66	63	+ 1	SSE	2	b	*		71	60	-
	Berlin ...	30.15	76	WNW	2	b	30.17	+ .05	73	63	+ 3	NE	3	b	*		82	64	-
	Wiesbaden ...	*	*	*	*	*	30.15	- .04	71	66	+ 1	2	0	b	*		84	63	-
	Munich ...	30.25	69	SE	1	b	30.24	- .04	69	66	- 1	NE	3	b	*		79	55	-
	The Helder ...	30.09	66	SSW	1	c	30.03	- .05	69	62	+ 4	S	1	b	1		73	63	-
	Brussels ...	*	*	*	*	*	30.08	- .07	69	62	+ 4	SSW	1	b	*		82	60	-
	Cape Gris Nez...	30.10	68	SW	1	b	30.06	- .06	66	62	+ 5	S	4	bc	2		72	57	-
	Paris ...	30.12	75	WSW	3	bc	30.13	- .03	65	60	+ 5	S	1	bc	*		80	54	-
	Brest ...	30.05	64	S	5	o	30.01	- .05	61	60	0	SW	5	r	5		75	55	0.12
PENIN. SULA.	Lorient ...	30.12	67	SSW	3	bc	30.07	- .06	65	64	+ 1	WSW	4	bc	4		72	61	-
	Rochefort ...	30.16	73	NY	3	c	30.13	- .09	69	68	+ 5	N	4	bc	2		81	64	-
	Belfort ...	30.14	84	SW	1	b	30.15	- .03	74	68	+ 1	WSW	1	b	*		90	62	-
	Lyons ...	30.12	78	NE	3	b	30.15	- .03	69	62	0	NNE	3	b	*		81	62	-
	Nice ...	30.04	76	E	1	bc	30.06	.00	76	64	0	E	1	b	0		86	50	-
	Perpignan ...	30.06	81	NE	1	b	30.11	- .02	?	69	?	E	?	?	*		89	66	-
	Biarritz ...	30.12	75	N	4	b	30.12	- .02	71	69	0	WSW	4	bc	2		81	68	-
	Corunna ...	*	*	*	*	*	*	*	*	*	*	*	*	*	*		*	*	*
	Lisbon ...	30.08	73	NY	7	b	30.08	- .07	69	63	+ 3	N	5	b	2		86	64	-

For Explanation of Columns, see p. 4.



# WEATHER CHARTS

for 8 a.m. on Friday, 29<sup>th</sup> July 1887.

## 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—

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

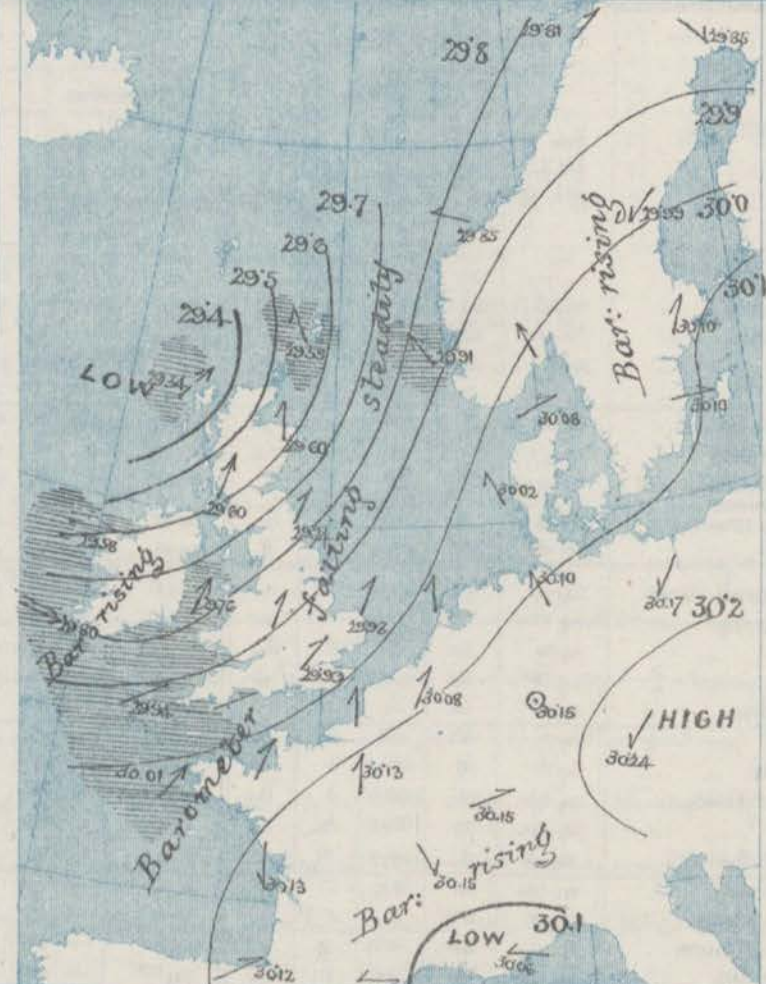
**Sea Disturbance**—where considerable is shown thus

■ = Rough. ■ = High.

## MEAN HEIGHT of the BAROMETER

at 8 a.m. for the month of July.  
During the 10 Years 1871—1880.

STATIONS.	MEAN READINGS.
	<i>in.</i>
Sumburgh Head	29.827
Stornoway	29.799
Wick	29.813
Nairn	29.824
Aberdeen	29.829
Leith	29.848
Shields	29.873
York	29.902
Ardrossan	29.864
Donaghadee	29.878
Holyhead	29.914
Liverpool	29.910
Valencia	29.944
Rocha's Point	29.940
Pembroke	29.942
Scilly	29.986
Hurst Castle	29.901
Dover	29.959
LONDON	29.955
Oxford	29.941
Cambridge	29.937
Yarmouth	29.934



## 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.

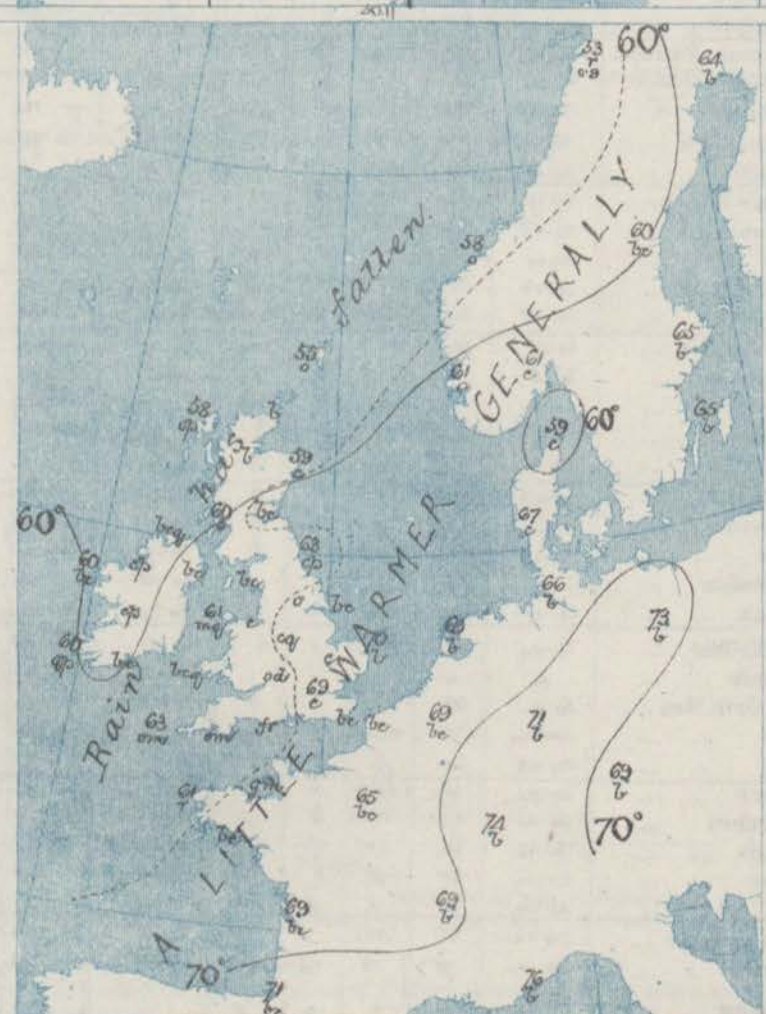
**Rainfall** A dotted line separates the districts in which rain has fallen from those where there has been none. Falls of 0.5 in. or more, are quoted in figures.

## 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	57.9	48.5	53.7	52.2	2.09
Stornoway	60.3	49.7	56.4	54.3	3.02
Wick	62.4	49.4	56.2	53.9	2.25
Nairn	65.0	51.6	57.4	53.7	2.57
Aberdeen	64.4	51.7	57.9	54.4	2.74
Leith	68.0	52.0	59.1	55.9	2.84
Shields	64.6	53.6	58.8	55.5	2.03
York	68.1	52.3	59.7	56.5	2.57
Ardrossan	64.0	53.8	57.8	54.8	2.91
Donaghadee	62.9	52.0	57.7	55.9	2.67
Holyhead	64.5	55.0	58.3	56.1	2.32
Liverpool	66.4	54.6	59.8	56.1	2.99
Valencia	64.5	53.9	59.0	56.2	3.91
Roche's Point	68.2	53.9	59.1	56.0	3.16
Pembroke	64.0	55.4	58.5	56.2	2.31
Scilly	65.0	56.9	60.3	58.2	2.29
Hurst Castle	67.9	56.4	61.7	59.2	2.15
Dover	67.4	57.5	63.0	59.2	1.82
LONDON	73.3	64.2	62.5	58.6	2.17
Oxford	69.9	53.7	60.4	57.1	2.51
Cambridge	72.5	52.8	61.3	58.0	2.30
Yarmouth	66.7	55.5	61.4	58.4	2.68

Note—The Temperature means are for the 10 years 1871—80, 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 South Germany.  
Lowest, 29.4 ins and less in a depression the centre of which lies to the westward of the Hebrides.  
A recovery of pressure has set in over Ireland and the south-west of England.

## TEMPERATURE

Highest, 76° at Nice, 74° at Belfast, 73° at Berlin, 71° at Wiesbaden and Biarritz and 70° at Harwich.  
Lowest, 53° at Rodez, 55° at Dunstaff Head and 58° at Christiansund, Norway and Mullaghmore.

## WIND

Strong from W in the west of Ireland, and from SW on all our north-western coasts.  
Moderate or fresh from SW or S in other parts of our islands.  
SE in the eastern shores of the North Sea; NE or E in Germany and the south of France.

## WEATHER

Fine over the greater part of Western Europe, but rain falling at Hurl Castle and Brest, and passing showers at Hovurway, Shields, Mullaghmore and Valencia.  
[Rain fell yesterday at all our western and extreme northern stations.]

## SEA

Rough at Hovurway and Brest, and rather rough on our south-western, western and extreme northern coasts generally.

## PROBABLE CHANGES IN SYSTEM NOW PREVALENT

The depression which was approaching Ireland yesterday morning has since travelled in a north-easterly direction and now has its centre off the north-west of Scotland. In its rear a recovery of pressure has set in over Ireland and the south-west of England, but in the west of France and the remaining parts of Great Britain the barometer is falling somewhat.

The depression will probably continue to move north-eastwards, but the distribution of pressure is favourable for the advance of other disturbances from the westward.

## FORECASTS

for the 24 hours ending at NOON on 30<sup>th</sup> July 1887.

### DISTRICTS.

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

### FORECASTS.

Sly winds, strong; squally, some showers.

D° D°

Same as N° 5.

Same as N° 5.

Same as N° 5.

SWly winds, fresh, fair generally, but some showers.

### DISTRICTS.

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

### WARNINGS

### FORECASTS.

Sly and SWly winds, strong; squally, some showers.

D° D°

Same as N° 5.

SWly and Wly winds, strong; squally, some showers.

D° D°

The S cone was hoisted last evening in districts 0, 1, 6 and 7.  
An asterisk is inserted against those districts in which the signals are now flying.

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 (^) 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 ...	29.95	62	58	SSE	6	c	5	Holyhead ...	29.87	64	?	SSW	5	cmg	5
Samburgh Head ...	29.69	55	53	WSW	1	c	4	Valencia ...	29.63	63	62	S	7	om	6
Stornoway ...	29.62	59	55	N	5	o	5	Scilly ...	29.95	69	66	SSW	5	c	6.
Aberdeen ...	29.78	60	57	S	4	cp	2	Dungeness ...	30.11	66	64	SW	2	c	2
Shields ...	29.88	69	64	SW	4	o	2	London ...	30.08	71	61	SSW	4	c	*
Ardrossan ...	29.75	61	59	SSW	3	o	2	Yarmouth ...	30.04	69	64	SSE	5	bg	3
Malin Head ...	29.54	64	59	S	5	o	3	Jersey ...	30.11	71	65	SSW	3	c	3
Mullaghmore ...	29.57	67	61	SSE	8	cp	6	Rocheport ...	30.21	77	70	NW	3	b	2
Belmullet ...	29.53	63	61	SW	6	o	.								

## 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 over the Bay of Biscay, France and Germany and from 30 ins: and upwards over Poland, Hungary, and Russia to about 29.5 ins: in the north-west of Norway and the Shetland Isles and to 29.7 ins: at Valencia. Gradients for SW<sup>2</sup> and S<sup>2</sup> winds were consequently prevalent over the whole of Northwestern Europe, and were moderately steep. The wind experienced were consequently S<sup>2</sup> and SW<sup>2</sup>, and blew strongly at stations situated on the western coasts of the British Isles and Norway, where they were accompanied by squally showery weather. Showers of rain had occurred during the previous night in many parts of France and Germany, and thunderstorms were reported at some German stations. Temperature had changed little, except over the Mediterranean, where it had fallen, and ranged from a little above 80° over some part of Algeria and a little below 80° over the southern part of the Mediterranean, to between 50° and 60° over Northern Europe and the northern parts of the British Isles. The highest individual readings were 82° at Biskra, Cetta and Trieste and 81° at Algiers, 80° at Malta and Palermo, and 79° at Cagliari, Ravenna, Livorno, Ancona, Brindisi and Sanguinaccio; the lowest were 56° at Samburgh Head, 58° at Archangel, 59° at Bodo, Stornoway and Ardrossan, and 60° at Mullaghmore, Belmullet, Cape Point and Paris.

Later in the day the S<sup>2</sup> wind blew again in the far west, and a fresh squally breeze elsewhere, and temperature rose to between 75° and 77° over England, but the rainfall in our Islands was reported over the western and northern districts only.

### 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 30<sup>th</sup> July 1887.

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

JOURNAL OF THE METEOROLOGICAL OFFICE, 116, VICTORIA STREET, LONDON, E.C.1, SECRETARY.																
</																

For Explanation of Columns, see p. 4.



# WEATHER CHARTS

for 8 a.m. on

Saturday 30<sup>th</sup> July

1887.

## BAROMETER, WIND & SEA.

(Explanation of Map)

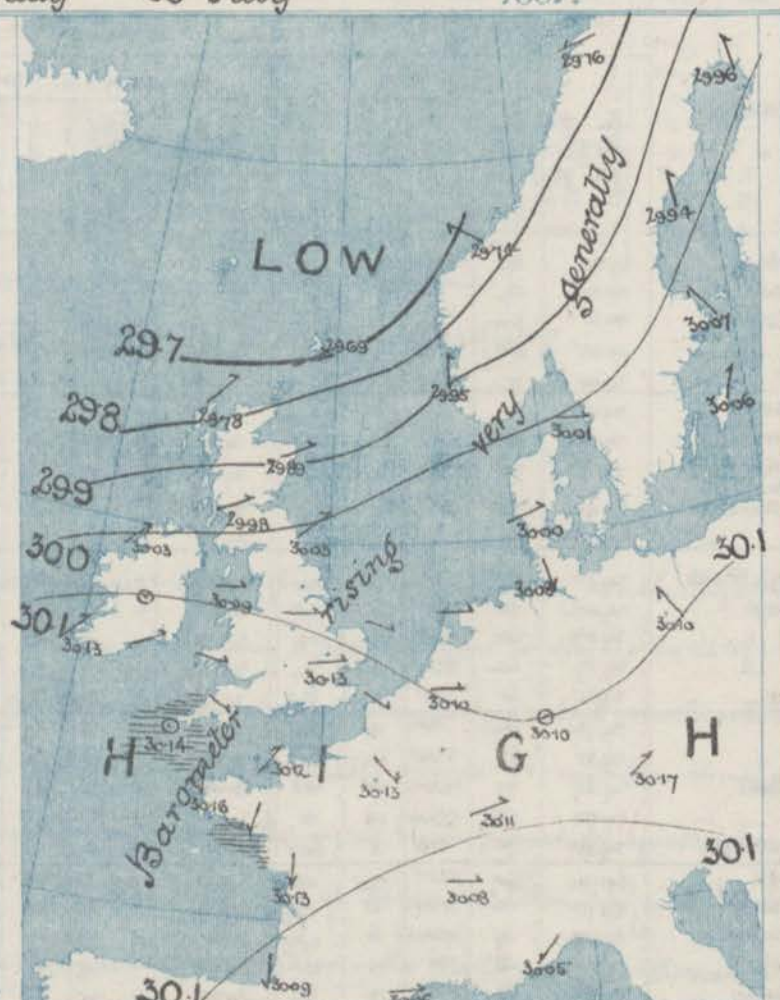
**Barometer** — Isobars are drawn for each tenth of an inch. Changes since previous morning are stated in words.  
**Wind** — Arrows show the prevalent winds. They fly with the wind and their barbs and feathers refer to force, thus —  
 — force above 10; — force 8 to 10;  
 — force 5 to 7; — force 1 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 10 Years 1871—1880.

STATIONS.	MEAN READINGS.
	ins.
Sumburgh Head	29.827
Stornoway	29.799
Wick	29.813
Nairn	29.824
Aberdeen	29.829
Leith	29.848
Shields	29.873
York	29.902
Ardrossan	29.864
Donaghadee	29.878
Holyhead	29.914
Liverpool	29.910
Valencia	29.944
Roche's Point	29.940
Pembroke	29.942
Scilly	29.986
Hurst Castle	29.961
Dover	29.959
LONDON	29.955
Oxford	29.941
Cambridge	29.937
Yarmouth	29.984



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

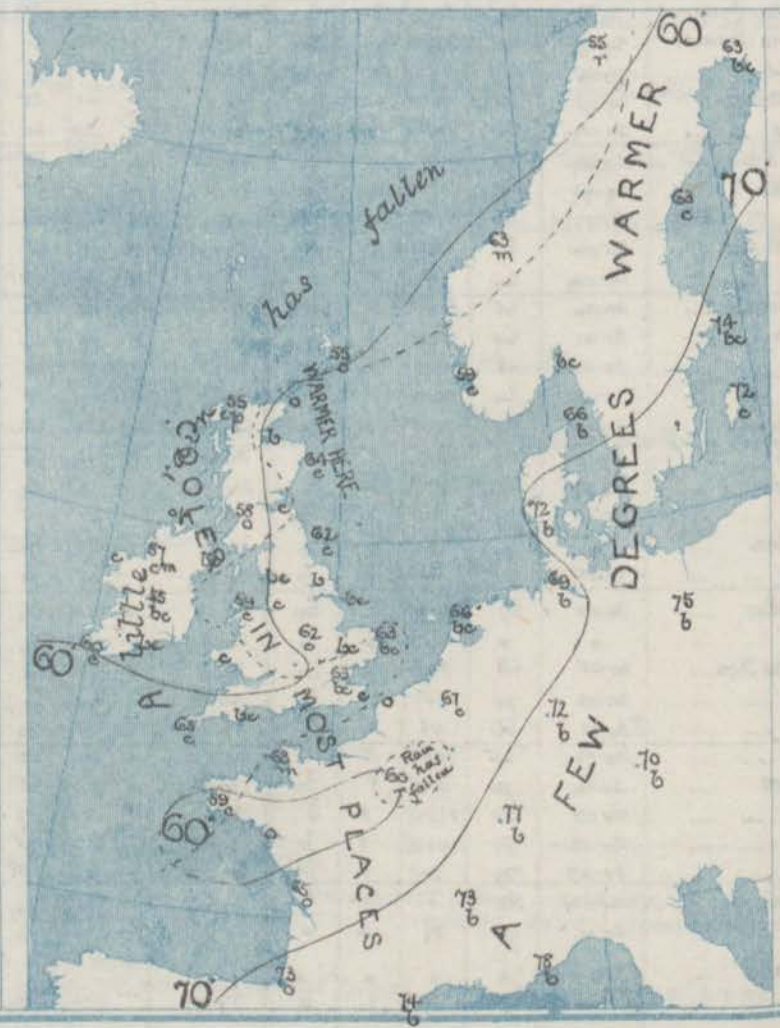
**Temperature** — Isotherms are drawn for each 10° changes since previous morning are stated in words.  
**Weather** — is shown by Letters of the Beaufort Scale.  
**Rainfall** — A dotted line separates the districts in which rain has fallen from those where there has been none. Falls of 0.5 in. or more, 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.	At 8 p.m.	
			Dry.	Wet.	
Sumburgh Head	57.9	48.6	58.7	52.2	2.09
Stornoway	60.3	49.7	56.4	54.3	3.02
Wick	62.4	49.4	56.2	53.9	2.25
Nairn	65.0	51.6	57.4	53.7	2.57
Aberdeen	64.4	51.7	57.9	54.4	2.74
Leith	68.0	52.0	59.1	55.9	2.84
Shields	64.6	53.6	58.8	55.5	2.63
York	69.1	52.3	59.7	56.5	2.57
Ardrossan	64.0	53.8	57.8	54.8	2.91
Donaghadee	62.9	52.0	57.7	55.9	2.67
Holyhead	64.5	55.0	58.3	56.1	2.32
Liverpool	66.4	54.6	59.8	56.1	2.99
Valencia	64.5	53.9	59.0	56.2	3.91
Roche's Point	68.2	53.9	59.1	56.0	3.16
Pembroke	64.0	55.4	58.5	56.2	2.31
Scilly	65.0	56.9	60.3	58.2	2.29
Hurst Castle	67.9	56.4	61.7	59.2	2.15
Dover	67.4	57.5	63.0	59.2	1.82
LONDON	73.3	54.2	62.5	58.6	2.17
Oxford	69.9	53.7	60.4	57.1	2.51
Cambridge	72.5	62.8	61.3	58.0	2.30
Yarmouth	66.7	55.5	61.4	58.4	2.68

NOTE — The Temperature means are for the 10 years 1871—80, 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 Germany, the south of our islands, the north of France and the Bay of Biscay. Lowest, 29.7 ins and less in a large area lying to the northward of Scotland.
TEMPERATURE	Highest, 78° at Nice, 77° at Belfort, 75° at Berlin and 74° at Stockholm and Perpignan. Lowest, 55° at Lumburg Head, Norway, Robin Head and Parnassus, 56° at Rodé and Rocher Point and 57° at Mullaghmore and Balmullet.
WIND	SW <sup>ly</sup> or W <sup>ly</sup> in all the more northern parts of our islands; moderate generally, but strong at Lough. Moderate S <sup>ly</sup> or SE <sup>ly</sup> in Scandinavia and Germany. Variable or light from NW at the Channel stations; moderate from N in the coast of France.
WEATHER	Fair generally, but dull in the west of France, showery on our extreme north-west coasts and rainy at Rodé and Paris. [Rain fell yesterday in many parts of the United Kingdom.]
SEA	Rough at Lough, but moderate to smooth elsewhere.

## PROBABLE CHANGES IN SYSTEM NOW PREVALENT

The depression which lay to the north-westward of our islands yesterday has now travelled away to the northward of Scotland and the barometer has risen at all but the Scandinavian, Danish and German stations.

There is at present no sign of the advance of any new depression, and fair weather is therefore likely to continue for a time in most districts.

## FORECASTS

for the 24 hours ending at NOON on 31<sup>st</sup> July 1887.

DISTRICTS.	FORECASTS.	DISTRICTS.	FORECASTS.
0 SCOTLAND NORTH	W <sup>ly</sup> winds, moderating; fair generally, but some showers.	6 SCOTLAND WEST	Same as No. 1.
1 SCOTLAND EAST	W <sup>ly</sup> winds, moderate; fair generally.	7 ENGLAND N. W.	Same as No. 1.
2 ENGLAND N. E.	-----D°-----D°-----	8 ENGLAND S. W.	Same as No. 5.
3 ENGLAND EAST	Same as No. 5.	9 IRELAND NORTH	W <sup>ly</sup> winds, moderate or fresh; fair generally, but local showers.
4 MIDLAND COUNTIES	Same as No. 5.	10 IRELAND SOUTH	SW <sup>ly</sup> and W <sup>ly</sup> winds, light; fair generally.
5 ENGLAND SOUTH	NW <sup>ly</sup> winds, light; fine generally.		
		WARNINGS	The S. cone has been lowered this morning in districts 0, 1, 6 and 7.

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.	Wva.	Sea.		Bar.	Dry.	Wet.	Wind.	Wva.	Sea.		
Skudesnes ...	29.88	62	58	SSE	6	0	5	Holyhead ...	29.85	61	59	SSW	5	cmg	5
Sumburgh Head ...	29.49	60	56	SSE	5	bc	5	Valencia ...	29.95	64	59	W	5	bcg	5
Stornoway ...	29.38	59	58	SH	5	0	7	Scilly ...	30.02	65	62	W	5	c	6
Aberdeen ...	29.62	63	58	S	5	c	3	Dungeness ...	30.01	69	65	W	3	bc	2
Shields ...	29.77	68	63	WSW	4	c	2	London ...	30.01	66	65	SSW	3	or	*
Ardrossan ...	29.67	59	57	SSW	3	c	2	Yarmouth ...	29.97	69	65	S	5	0	4
Malin Head ...	29.62	60	57	W	6	0	4	Jersey ...	30.09	64	64	WSW	3	0	3
Mullaghmore ...	29.75	59	57	WSW	7	opq	6	Rochefort ...	30.45	75	69	NW	5	bc	2
Beimullet ...	29.78	58	55	W	6	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 over the northwest of Spain, Central France and North Germany to about 29.3 ins. off the Hebrides and to about 29.2 ins. over the southeastern parts of the Mediterranean. S<sup>3</sup> to W<sup>1</sup> winds prevailed over the British Islands and their neighbourhood, and blew strongly at the more western stations, where showers were prevalent, while over Central and Eastern Europe the weather was fine and bright, and the winds light and variable. Temperature ranged from between 80° and 84° over the southern part of the Mediterranean to very little above 50° over Northern Europe. The highest individual readings were 84° at Malta, 83° at Palma, 82° at Cagliari, 81° at Barcelona and 80° at Constantinople, Naples, and San Fernando; the lowest were 53° at Rode, 55° at Archangel and Sumburgh Head, 58° at Christiansund and Stornoway and 59° at the Scaw.

Later in the day showers fell in many parts of the British Isles, where also the maximum temperature did not exceed 75° anywhere. At Brussels, however, the thermometer rose to 85°, at Paris to 89°, at Berlin to 90°, and at Relfort to 91°. The night was cool over England.

### 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.

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# DAILY WEATHER REPORT.

for Sunday 31<sup>st</sup> July

1887.

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

Issued by the Meteorological Office, 116, Victoria Street, London, W. K. 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 ..	29.84	59	S	4	b	29.45	-.01	67	60	+ .44	N	2	b	*	72	54	-		
Hernösand ...	29.89	62	S	2	b	30.01	+.07	65	60	+ .22	S	2	b	*	77	50	-		
Stockholm ...	30.08	71	W	2	b	30.12	+.05	69	61	- .5	NE	2	o	*	81	59	-		
Wisby ...	30.03	68	SW	4	b	30.05	-.01	75	67	+ .3	S	2	bc	*	81	61	-		
Bodo ...	29.86	56	SSE	2	o	29.97	+.21	54	52	- .2	WSW	4	bc	2	59	50	0.08		
Christiansund...	29.92	56	WSW	4	o	30.02	+.28	60	56	- .3	ESE	1	b	3	61	48	0.04		
Skudesnaes ...	30.05	58	S	2	c	30.03	+.08	59	55	0	ESE	2	c	3	64	57	-		
Christiania Fjord (Færdar)	30.00	62	S	3	bc	30.01	+.03	64	59	+ .1	L	0	c	1	64	61	-		
Skagen (The Scaw)	30.04	64	L	0	c	29.97	-.04	63	60	- .3	NNE	1	o	0	75	61	-		
Fanø ...	30.02	62	NW	2	bc	29.97	-.03	57	56	- .15	NNW	4	r	*	75	57	0.12		
BRITISH ISLANDS.																			
Sumburgh Head	29.90	56	WSW	2	bc	30.00	+.31	55	52	0	WSW	1	b	2	60	47	-		
Stornoway ...	29.95	57	SW	4	bc	30.00	+.22	55	54	0	SW	2	c	3	60	44	0.10		
Wick ...	29.95	60	E	1	o	30.05	+.22	60	55	- .3	S	1	bc	0	65	44	-		
Nairn ...	29.89	62	SW	1	c	30.05	+.19	53	50	- .8	SW	1	b	1	68	42	-		
Aberdeen...	29.97	60	NNE	1	r	30.06	+.17	56	52	- .8	W	1	bc	1	71	47	0.01		
Leith ...	30.03	62	W	3	c	30.06	+.10	57	53	- .3	SW	1	c	*	65	50	-		
Shields ...	30.04	65	WSW	2	c	30.06	+.03	61	55	- .1	NE	1	c	2	66	50	-		
Spurn Head ...	30.06	62	SSE	3	c	30.04	-.04	61	60	0	E	2	c	2	65	56	-		
York ...	30.08	65	WNW	1	c	30.06	-.02	57	52	- .4	NNW	1	c	*	70	47	-		
Loughborough	30.07	67	WNW	1	o	30.08	-.03	57	52	- .5	W	2	og	*	74	55	-		
Ardrossan ...	30.05	59	GSW	2	c	30.06	+.07	59	53	+ .1	L	0	o	0	65	50	-		
Malin Head ...	30.01	60	NW	2	o	30.01	+.03	58	56	+ .3	W	1	o	0	62	52	-		
Mullaghmore ...	30.05	58	WSW	1	c	30.05	+.02	57	54	0	WSW	2	c	2	63	50	0.07		
Belinulet ...	30.05	58	WSW	2	c	30.10	+.05	57	53	0	W	2	b	*	61	52	0.13		
Donaghadee ...	30.06	59	NE	2	o	30.07	+.02	54	53	- .6	SSW	2	o	*	68	52	0.11		
Barrow-in-Furness	30.07	61	WSW	3	bc	30.06	+.02	56	56	- .2	SE	1	bc	*	63	55	-		
Liverpool (Bidston)	30.09	59	NNW	1	c	30.07	-.02	59	54	- .2	SSW	1	o	1	66	54	0.01		
Holyhead ...	30.09	60	SW	2	c	30.07	-.02	58	56	- .1	SSW	1	cw	2	66	52	-		
Parsonstown ...	30.09	56	L	0	r	30.08	-.02	57	54	+ .2	SW	1	bc	*	63	47	0.42		
Valencia ...	30.10	60	SW	2	c	30.10	-.03	60	55	0	W	1	bc	1	64	54	0.05		
Roche's Point...	30.10	63	SSW	3	b	30.07	-.05	56	54	0	NW	1	bc	2	65	50	-		
Pembroke ...	30.10	61	NNW	2	bc	30.09	-.04	60	58	+ .2	S	1	b	1	62	53	-		
Scilly ...	30.12	63	W	2	c	30.11	-.03	66	61	+ .3	SW	1	bc	4	67	54	-		
Prawle Point ...	30.10	62	WSW	4	b	30.12	-.02	59	55	- .5	W	3	b	3	65	49	-		
Jersey ...	30.10	65	NW	3	b	30.09	-.03	64	57	+ .1	NW	3	b	3	69	53	-		
Hurst Castle ...	30.08	66	W	4	b	30.05	-.09	62	57	0	NW	2	m	1	69	52	-		
Dungeness ...	30.05	63	WSW	2	c	30.06	-.11	63	60	- .1	L	0	bc	1	69	57	0.04		
London ...	30.04	72	L	0	bc	30.02	-.11	64	59	+ .1	NNW	1	bc	*	75	55	-		
Oxford ...	30.07	63	W	1	c	30.05	-.08	58	56	0	L	0	o	*	71	53	-		
Cambridge ...	30.06	68	N	1	c	30.03	-.08	61	59	- .1	N	1	ow	*	78	50	-		
Yarmouth ...	30.09	65	ENE	3	b	30.02	-.07	62	61	- .1	NE	3	c	3	67	60	0.01		
Cuxhaven ...	30.09	64	N	2	t	30.00	-.08	66	65	- .3	NNE	2	c	*	71	?	0.40		
Berlin ...	30.02	81	L	0	c	29.98	-.12	76	68	+ .1	S	1	b	*	93	70	-		
Wiesbaden ...	*	*	*	*	*	30.00	-.10	74	68	+ .2	NW	3	c	*	90	66	-		
Munich ...	30.08	72	L	0	b	30.09	-.08	72	65	+ .2	SW	4	b	*	82	57	-		
FRANCE & NETHERLANDS.																			
The Helder ...	*	*	*	*	*	29.99	-.11	64	63	- .3	SSW	3	o	*	78	61	0.08		
Brussels ...	30.05	65	NE	1	c	30.01	-.10	62	60	+ .1	N	1	c	0	72	59	0.08		
Cape Gris Nez...	30.02	67	SE	1	c	30.04	-.09	59	58	- .1	NW	3	o	*	78	59	0.91		
Brest ...	30.11	61	NNW	4	bc	30.15	-.01	58	55	- .1	NE	3	b	4	75	53	-		
Lorient ...	30.06	66	W	5	bc	30.11	-.06	59	55	+ .1	NE	3	bc	2	70	55	-		
Rochefort ...	30.04	72	NNW	5	c	30.11	-.02	65	63	0	NNE	4	c	2	77	61	0.20		
Belfort ...	30.00	83	WSW	1	bc	30.11	00	69	65	- .8	W	5	bc	*	90	57	-		
Lyons ...	29.96	86	E	1	b	30.09	+.01	71	64	- .2	N	1	b	*	89	62	-		
Nice ...	30.00	77	L	0	o	30.02	-.03	77	66	- .1	ESE	1	b	1	84	70	-		
Perpignan ...	29.96	78	L	0	o	30.04	-.02	76	73	+ .2	W	1	b	*	88	67	-		
Biarritz ...	30.03	72	WSW	5	c	30.08	-.01	69	67	- .4	ENE	4	r	2	77	68	-		
SPAIN.																			
Corunna ...	*	*	*	*	*	30.10	-.03	65	64	+ .3	NNE	8	o	7	66	61	-		
Lisbon ...	29.97	66	NNW	8	b	30.00	+.01	64	61	- .5	NNW	5	bc	2	87	64	-		

For Explanation of Columns, see p. 4.



# WEATHER CHARTS

for 8 a.m. on

Sunday 31<sup>st</sup> July

1887.

## 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.

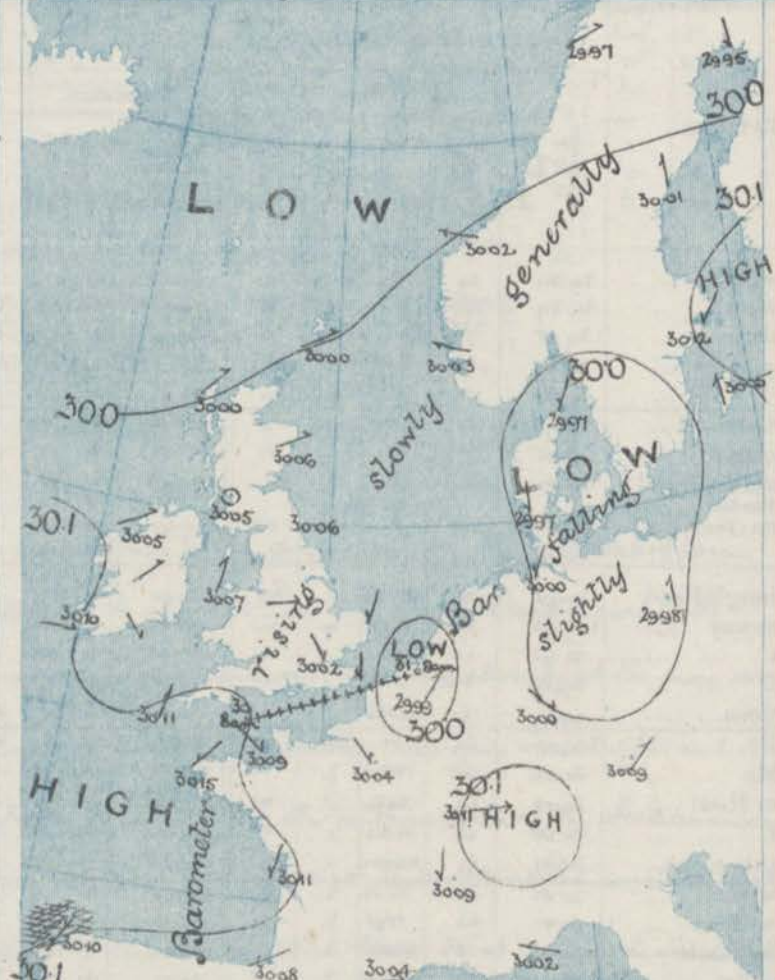
**Sea Disturbance** — where considerable is shown thus

— Rough. — High.

## MEAN HEIGHT of the BAROMETER

at 8 a.m. for the month of July.  
During the 10 Years 1871—1880.

STATIONS.	MEAN READINGS.
	in.
Sumburgh Head	29.827
Stornoway	29.799
Wick	29.813
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Shields	29.873
York	29.902
Ardrossan	29.864
Donaghadee	29.878
Holyhead	29.914
Liverpool	29.910
Valencia	29.944
Roche's Point	29.940
Pembroke	29.942
Scilly	29.986
Hurst Castle	29.961
Dover	29.959
LONDON	29.955
Oxford	29.941
Cambridge	29.937
Yarmouth	29.934



## 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.

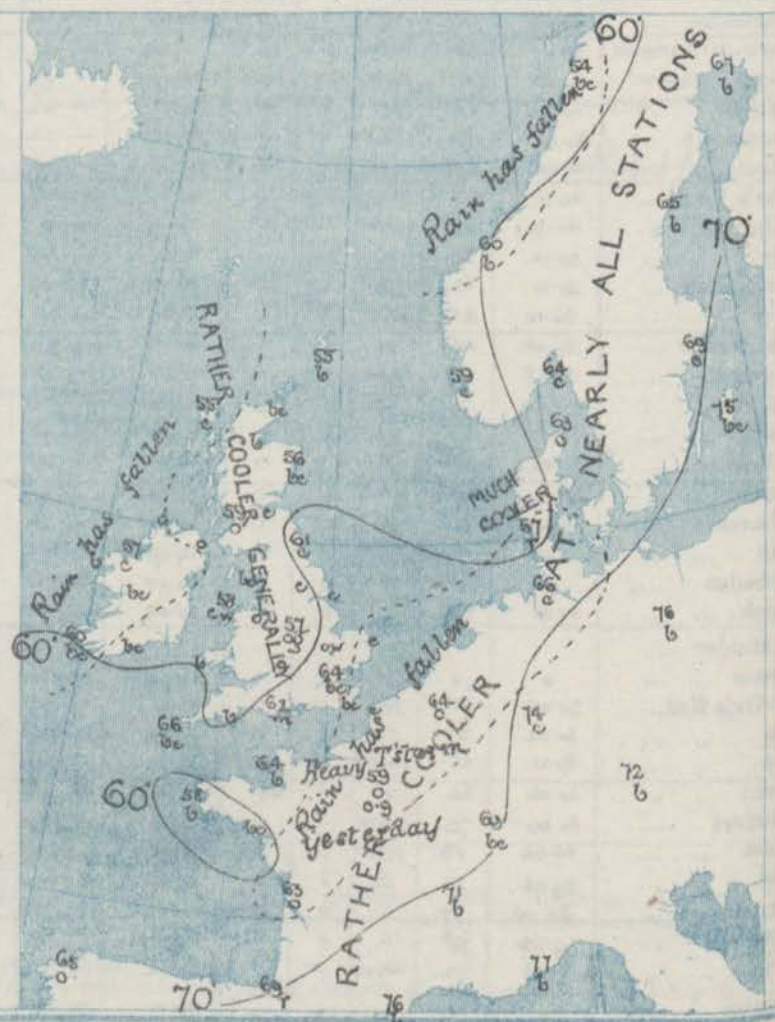
**Rainfall** — A dotted line separates the districts in which rain has fallen from those where there has been none. Falls of 0.5 in. or more, are quoted in figures.

## MEANS OF TEMPERATURE IN SHADE. AND RAINFALL.

for the month of July.

STATIONS	TEMPERATURE				RAINFALL. (Inches)
	Daily Max	Daily Min.	A.T. & N.		
			Dry.	Wet.	
Sumburgh Head	57.9	48.5	53.7	52.2	2.06
Stornoway	60.3	40.7	56.4	54.3	3.02
Wick	62.4	49.4	56.2	53.9	2.25
Nairn	65.0	51.6	57.4	53.7	2.57
Aberdeen	64.4	51.7	57.9	54.4	2.74
Leith	68.0	52.0	59.1	55.9	2.84
Shields	64.6	53.6	58.8	55.5	2.63
York	68.1	52.3	59.7	56.5	2.57
Ardrossan	64.0	53.8	57.8	54.8	2.91
Donaghadee	62.9	52.0	57.7	55.9	2.67
Holyhead	64.5	55.0	58.3	56.1	2.32
Liverpool	66.4	54.6	59.8	56.1	2.09
Valencia	64.5	53.9	59.0	56.2	3.01
Roche's Point	68.2	63.9	59.1	56.0	3.16
Pembroke	64.0	55.4	58.5	56.2	2.31
Scilly	65.0	56.9	60.3	58.2	2.29
Hurst Castle	67.9	56.4	61.7	59.2	2.15
Dover	67.4	57.5	63.0	59.2	1.82
LONDON	78.3	54.2	62.5	58.6	2.17
Oxford	69.9	53.7	60.4	57.1	2.51
Cambridge	72.5	52.8	61.3	58.0	2.30
Yarmouth	66.7	55.5	61.4	58.4	2.68

NOTE — The Temperature means are for the 10 years 1871—80, 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, in a large area lying over the Baltic and to the eastward of Ireland, and in two smaller areas lying respectively over the Baltic and Switzerland.  
Lowest, 30.0 ins: and less, over the north of Scandinavia and to the northward of Scotland, as well as in a large depression lying over Denmark and North Germany and a small disturbance lying over the Netherlands.

## TEMPERATURE

Highest, 77° at Nice, 76° at Berlin and Perpignan, 75° at Niaby, 74° at Wiesbaden, 72° at Munich and 71° at Lyons.  
Lowest, 53° at Kain, 54° at Rato and Donaghadee, 55° at Sumburgh H<sup>d</sup> and Stromoway, and 56° at Aberdeen and Roskell.

## WIND

Light and variable over the greater part of our Islands.  
N<sup>W</sup> in Denmark, S<sup>W</sup> on the shores of the Baltic; SE or E<sup>W</sup> in the west of Norway.  
NE<sup>W</sup> over the Bay of Biscay; variable in the south of France.

## WEATHER

Fine generally, but dull at some of the English stations, and rainy at Faro and Biarritz.  
Showers fell yesterday in many places and heavy thunderstorms were experienced over France.

## SEA

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

## PROBABLE CHANGES IN SYSTEM NOW PREVALENT

Since yesterday morning the barometer has continued to rise at all our northern stations. Elsewhere however, a slight fall has taken place and depression systems of irregular form have appeared over various parts of the Continent. At Valencia the barometer has risen since six am.

## FORECASTS

For the 24 hours ending at NOON on 1<sup>st</sup> August 1887.

### 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.

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.
Skudeenæs ...	30.04	64	58	S 4	c	4	Holyhead ...	30.11	64	55	SSW 1	b	1
Sumburgh Head ...	29.86	58	54	WSW 3	b	4	Valencia ...	30.12	64	58	WSW 3	b	3
Stornoway ...	29.90	59	57	SW 4	b	4	Scilly ...	30.14	63	61	WNW 2	c	6
Aberdeen ...	29.94	68	57	SSW 4	c	1	Dungeness ...	30.08	65	61	SW 2	c	1
Shields ...	30.05	65	58	W 3	c	2	London ...	30.09	73	61	WNW 1	c	
Ardrossan ...	30.06	62	56	SSW 2	o	1	Yarmouth ...	30.09	65	62	NE 3	b	
Malin Head ...	30.01	60	53	W 3	o	3	Jersey ...	30.12	68	58	NW 3	b	3
Mullaghmore ...	30.05	62	56	WNW 4	c	3	Rochefort ...	30.08	73	70	NW 5	c	2
Belmullet ...	30.00	60	54	WSW 2	o	*							

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

The Continental reports for yesterday morning showed that pressure was highest (30.1 ins. and upwards) in two large areas lying respectively over North Germany and the Baltic provinces and the south of our Islands and the north of France. The lowest readings, 29.7 ins. and less, were found in a large area which lay to the northward of Scotland. Moderate to strong breezes from the SW<sup>th</sup> prevailed over the northern part of the British Isles, and light or moderate S<sup>th</sup> breezes over Scandinavia, but in the west of France the wind was N<sup>th</sup>, while over Central and Southern Europe it was very variable. Fine weather was reported very generally, but showers were falling on our extreme northwest coasts and rain at Paris. Temperature had fallen a few degrees in our Islands and slightly in Austria, but risen elsewhere; readings ranged from 80° and upwards over Italy, Spain, Algeria, and the south of Austria to 60° or less in the west and extreme north of our Islands. The highest individual readings were 86° at Cagliari, 84° at Legna, Palma, and Barcelona, 82° at Chiem, Biskia, and Trieste, and 81° at Croisset, Oran, Algiers, Brindisi, and Malta; the lowest were 55° at Sumburgh H<sup>d</sup>, Stornoway, Malin H<sup>d</sup> and Rossmore, 56° at Bodo and Locherpoint, and 57° at Mullaghmore and Belmullet.

In the course of the day a small depression was formed over the English Channel and towards night when this moved eastwards severe thunderstorms were experienced at many of the French stations. Elsewhere no important change was observed.

### 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 1887

## 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.		
				Direc.	Force. (0 to 12.)		Reading at 32° F. and Sea Level.	Difference from 8 a.m. yesterday.	Dry.	Wet.	Difference from 8 a.m. yesterday.	Direc.	Force. (0 to 12.)			Max.	Min.			
1	Belfort .....	30.11	74	NE	5	bc	30.16	.00	66	-	- 1	NE	3	b	*	60	50	-		
	Corunna .....	*	*	*	*	*	30.06	-.09	71	69	0	ESE	1	c	?	73	?	-		
2	Corunna .....	*	*	*	*	*	30.08	+ .02	74	67	+ 3	NE	1	m	1	82	61	-		
3	Helder .....	30.23	61	W	1	b	30.24	-.01	63	-	- 1	NE	1	b	1	66	57	-		
	Corunna .....	*	*	*	*	*	29.99	-.09	76	74	+ 2	NE	1	b	3	81	61	-		
4	Belfort .....	30.12	82	NE	1	b	30.09	-.14	79	-	+ 8	NE	1	c	*	87	54	-		
	Corunna .....	*	*	*	*	*	30.05	+ .06	65	62	- 11	WNW	4	m	2	81	59	0.16		
6	Corunna .....	*	*	*	*	*	30.19	-.06	68	-	+ 2	N	1	b	2	72	59	0.12		
7	Corunna .....	*	*	*	*	*	30.04	-.15	76	72	+ 8	NE	1	b	3	77	57	-		
8	Corunna .....	*	*	*	*	*	30.07	+ .03	71	68	- 5	SW	1	bc	1	84	57	-		
10	Lyons .....	30.13	64	S	3	r	30.12	-.03	66	-	+ 2	ESE	1	o	*	86	63	0.39		
12	Corunna .....	*	*	*	*	*	30.06	-.21	66	64	0	NNE	1	f	4	72	61	-		
13	Corunna .....	*	*	*	*	*	30.17	+ .11	69	64	+ 3	SSE	5	bc	0	73	64	-		
14	Mullaghmore .....	29.51	61	W	6	bc	29.79	+ .32	60	56	0	WNW	6	c	6	66	56	0.63		
	Helder .....	29.82	71	SW	3	c	29.99	+ .05	66	-	- 4	SW	1	c	0	80	61	-		
	Corunna .....	*	*	*	*	*	30.19	+ .02	66	63	- 3	WNW	1	f	3	79	56	-		
15	Lyons .....	30.09	81	WNW	7	c	30.15	+ .04	70	-	- 2	WNW	3	b	*	84	65	-		
	Corunna .....	*	*	*	*	*	30.19	.00	72	66	+ 6	E	1	m	2	79	?	-		
16	Corunna .....	*	*	*	*	*	30.14	-.05	72	67	0	NNE	3	f	3	79	63	-		
17	Lyons .....	30.10	68	WNW	1	bc	30.04	-	65	-	-	N	3	bc	*	76	60	-		
18	Belfort .....	30.00	70	NE	1	o	30.00	-.08	60	-	- 5	NE	1	r	*	72	57	0.04		
	Blairitz .....	30.01	65	NE	7	o	29.93	-.15	60	-	- 9	SE	4	o	2	?	?	0.59		
	Corunna .....	*	*	*	*	*	30.15	+ .03	65	63	- 1	NNE	8	bc	6	72	59	-		
19	Lyons .....	29.95	63	NNE	3	o	29.94	.00	61	-	+ 1	N	3	o	*	65	60	0.16		
20	Belfort .....	29.95	75	NE	4	o	30.11	-	64	61	-	NE	3	o	*	79	52	0.04		
	Corunna .....	*	*	*	*	*	30.17	-.12	66	65	-	N	7	m	6	72	59	-		
21	Lyons .....	29.99	71	N	1	o	30.07	+ .03	63	-	+ 1	W	1	c	*	73	63	0.75		
	Blairitz .....	30.06	65	WNW	3	o	30.03	+ .01	63	-	+ 3	SE	4	r	5	68	60	0.32		
23	Corunna .....	*	*	*	*	*	30.15	-.07	71	63	+ 3	NNE	1	b	4	77	59	-		
27	Belfort .....	29.88	74	ESE	1	b	29.98	+ .04	75	65	+ 7	NW	1	b	*	83	55	-		
	Corunna .....	*	*	*	*	*	30.02	+ .06	68	66	0	SEW	4	f	4	77	64	-		
29	Corunna .....	*	*	*	*	*	30.13	+ .01	68	-	0	SW	3	bc	4	79	59	-		
30	Corunna .....	*	*	*	*	*	30.13	.00	62	61	- 6	N	7	f	7	77	61	-		
31	Helder .....	30.06	64	NNE	1	c	29.99	-.09	63	-	- 3	NE	3	o	3	70	63	0.04		



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. ins.	Air Temperature.								Tension of Vapour ins.
			At 8 a.m.	Means of			Absolute Extremes.				
				Minima	Maxima	Min. and Max. combined	Minimum	Date	Maximum	Date	
0. SCOTLAND, N.	{ Sumburgh Head ... Wick ... Stornoway ...	29.801 29.845 29.877	52.4 57.3 55.9	47.7 48.8 49.6	57.0 63.5 61.6	52.4 56.2 55.6	39 38 39	7 <sup>th</sup> 7 <sup>th</sup> 6 <sup>th</sup> + 18 <sup>th</sup>	64 75 70	1 <sup>st</sup> 1 <sup>st</sup> 8 <sup>th</sup>	0.343 .382 .409
1. SCOTLAND, E.	{ Nairn ... Aberdeen ... Leith ...	29.864 29.891 29.922	58.2 59.7 61.2	51.4 50.9 53.6	67.4 67.1 70.9	59.4 59.0 62.3	40 39 41	6 <sup>th</sup> + 18 <sup>th</sup> 6 <sup>th</sup> 6 <sup>th</sup>	78 76 82	1 <sup>st</sup> 1 <sup>st</sup> + 9 <sup>th</sup> 8 <sup>th</sup>	.377 .380 .386
2. ENGLAND, N.E.	{ Shields ... York ... Spurn Head ...	29.960 30.005 30.011	61.8 62.5 62.1	53.7 53.3 56.6	68.5 74.4 69.2	61.1 63.9 62.9	42 40 50	6 <sup>th</sup> 6 <sup>th</sup> 6 <sup>th</sup> + 18 <sup>th</sup>	79 88 80	2 <sup>nd</sup> + 3 <sup>rd</sup> 3 <sup>rd</sup> 12 <sup>th</sup>	.420 .436 .464
3. ENGLAND, E.	{ Yarmouth ... Cambridge ...	30.034 30.044	63.9 65.7	56.5 53.2	70.4 78.7	63.5 66.0	46 41	6 <sup>th</sup> + 19 <sup>th</sup> 19 <sup>th</sup>	79 89	2 <sup>nd</sup> 3 <sup>rd</sup>	.450 .418
4. MIDLAND COUNTIES.	{ Loughborough ... Oxford ...	30.041 30.059	64.0 62.8	53.7 54.4	76.6 74.8	65.2 64.6	42 44	6 <sup>th</sup> + 18 <sup>th</sup> + 19 <sup>th</sup> 15 <sup>th</sup>	86 85	3 <sup>rd</sup> 3 <sup>rd</sup>	.440 .434
5. ENGLAND, S.	{ London ... Dungeness ... Hurst Castle...	30.064 30.056 30.080	64.9 61.8 63.1	55.4 55.9 54.6	77.1 67.9 70.8	66.3 61.9 62.7	46 44 46	14 <sup>th</sup> 19 <sup>th</sup> 18 <sup>th</sup> + 19 <sup>th</sup>	88 77 70	4 <sup>th</sup> 3 <sup>rd</sup> 5 <sup>th</sup> + 7 <sup>th</sup> + 9 <sup>th</sup> + 10 <sup>th</sup>	.428 .478 .484
6. SCOTLAND, W.	Ardrossan ...	29.934	59.1	53.3	64.5	58.9	48	6 <sup>th</sup>	73	8 <sup>th</sup>	.421
7. ENGLAND, N.W.	{ *Hawes Junction ... Barrow-in-Furness ... Liverpool Obs <sup>y</sup> (Bidston) Holyhead ...	28.769 29.992 30.013 30.016	57.0 59.7 63.0 61.0	49.2 56.3 56.6 55.0	64.5 65.8 69.8 66.1	56.9 61.1 63.2 60.6	36 48 49 51	6 <sup>th</sup> 6 <sup>th</sup> 6 <sup>th</sup> 26 <sup>th</sup>	78 79 83 79	8 <sup>th</sup> 8 <sup>th</sup> 8 <sup>th</sup> 8 <sup>th</sup>	.394 .460 .453 .448
8. ENGLAND, S.W.	{ Pembroke ... Prawle Point ...	30.045 30.083	60.3 63.2	56.0 54.6	64.3 68.9	60.2 61.8	53 49	5 <sup>th</sup> + 17 <sup>th</sup> + 18 <sup>th</sup> 18 <sup>th</sup> + 31 <sup>st</sup>	72 82	21 <sup>st</sup> 4 <sup>th</sup>	.480 .456
9. IRELAND, N.	{ Malin Head ... Donaghadee ... Mullaghmore ... Belmullet ...	29.931 29.973 29.947 29.965	58.6 60.3 60.2 60.3	54.8 54.2 55.3 56.3	64.0 67.5 65.5 63.9	59.4 60.9 60.4 60.1	47 49 50 49	6 <sup>th</sup> 1 <sup>st</sup> + 6 <sup>th</sup> 29 <sup>th</sup> + 31 <sup>st</sup> 16 <sup>th</sup>	75 80 72 71	8 <sup>th</sup> 3 <sup>rd</sup> 3 <sup>rd</sup> + 7 <sup>th</sup> 8 <sup>th</sup>	.445 .434 .423 .416
10. IRELAND, S.	{ Parsonstown ... Valencia ... Roche's Point ...	30.000 30.014 30.025	61.3 62.8 62.0	53.3 55.8 56.4	69.6 67.1 68.2	61.5 61.5 62.3	45 49 49	16 <sup>th</sup> 16 <sup>th</sup> 30 <sup>th</sup>	77 71 76	1 <sup>st</sup> 1 <sup>st</sup> + 2 <sup>nd</sup> + 16 <sup>th</sup> 19 <sup>th</sup>	.436 .455 .462
CHANNEL ISLANDS.	{ Scilly (St. Mary's) .. Jersey (Noirmont) ...	30.066 30.080	64.3 64.3	58.7 57.1	68.8 71.2	63.8 64.2	54 45	31 <sup>st</sup> 19 <sup>th</sup>	72 81	6 <sup>th</sup> + 8 <sup>th</sup> + 24 <sup>th</sup> 3 <sup>rd</sup>	.501 .454

\* Hawes Junction is 1185 feet above mean Sea Level and the

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STATIONS in the BRITISH ISLANDS during the Month of JULY 1887  
 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								
					Rain	Snow	Hail	Thunderstorms	Clear Sky	Overcast	Gales	North	N.E.	East	S.E.	South	S.W.	West	N.W.	Calms
%		ins.	in.																	
87	8.4	2.84	0.52	23 <sup>rd</sup>	24	0	0	0	2	20	0	5	0	1	2	2	5	9	2	5
87	4.0	3.40	0.84	8 <sup>th</sup>	17	0	0	2	4	13	0	3	0	0	1	7	6	9	9	2
92	8.4	4.40	0.65	12 <sup>th</sup>	22	0	0	0	1	17	2	1	1	0	1	1	15	5	0	7
78	5.8	2.05	0.42	4 <sup>th</sup>	20	0	0	0	7	9	0	2	1	0	1	2	5	11	2	7
75	5.9	1.94	0.46	10 <sup>th</sup>	17	0	0	1	6	9	0	4	1	0	2	5	10	5	4	6
72	6.3	2.18	0.47	27 <sup>th</sup>	18	0	0	4	5	9	0	1	1	1	0	2	5	15	5	1
78	6.0	0.73	0.26	1 <sup>st</sup>	9	0	0	2	7	6	0	2	4	0	1	5	13	3	3	0
77	3.9	1.10	0.47	26 <sup>th</sup>	10	0	0	0	16	4	0	5	0	0	0	6	2	13	5	0
83	3.0	0.57	0.26	4 <sup>th</sup>	7	0	0	1	15	1	0	7	0	1	2	2	7	6	6	0
76	3.1	1.26	0.55	31 <sup>st</sup>	10	0	0	2	15	0	0	3	3	1	1	4	7	6	6	0
66	3.3	0.60	0.33	16 <sup>th</sup>	8	0	0	3	17	5	0	6	1	1	1	4	9	4	5	0
74	6.0	0.75	0.26	24 <sup>th</sup>	8	0	0	1	6	9	1	1	0	2	2	2	6	12	4	2
76	4.7	0.69	0.26	24 <sup>th</sup>	7	0	0	1	14	7	0	2	5	0	2	3	9	2	2	6
71	4.0	1.12	0.42	15 <sup>th</sup>	9	0	0	2	14	4	0	1	4	1	1	5	7	7	4	1
87	5.4	1.00	0.83	16 <sup>th</sup>	6	0	0	1	7	7	0	6	3	5	0	1	6	8	1	1
83	4.7	1.09	0.62	17 <sup>th</sup>	8	0	0	1	8	1	1	2	4	4	2	1	10	6	1	1
84	7.0	2.51	0.50	8 <sup>th</sup>	19	0	0	0	5	15	2	0	0	1	1	7	9	4	6	3
85	6.5	3.97	1.18	26 <sup>th</sup>	19	0	0	4	10	17	0	6	1	0	5	9	7	2	1	0
91	5.5	1.13	0.45	9 <sup>th</sup>	10	0	0	0	3	9	2	1	4	1	4	1	8	3	9	0
70	5.6	1.12	0.31	26 <sup>th</sup>	14	0	0	0	6	7	1	1	0	1	3	2	7	12	5	0
84	5.1	1.99	0.44	26 <sup>th</sup>	14	0	0	1	9	3	0	3	0	0	1	6	10	5	3	3
92	5.7	2.31	0.83	26 <sup>th</sup>	12	0	0	0	4	7	2	4	4	2	4	2	9	3	3	0
79	5.2	1.10	0.56	24 <sup>th</sup>	10	0	0	0	12	10	1	4	3	3	0	5	6	5	3	2
91	9.5	3.64	0.63	26 <sup>th</sup>	26	0	0	1	1	29	0	3	1	0	0	7	5	10	5	0
83	5.9	2.55	0.48	9 <sup>th</sup>	21	0	0	0	7	8	1	3	4	0	0	5	10	6	3	0
82	7.5	4.17	0.88	26 <sup>th</sup>	20	0	0	1	1	7	9	1	0	0	3	5	9	5	7	1
80	8.0	3.39	0.43	14 <sup>th</sup>	24	0	0	0	3	20	3	2	0	0	0	5	10	9	5	0
87	7.1	2.87	0.58	9 <sup>th</sup>	14	0	0	0	1	11	0	0	0	0	4	3	11	2	1	10
80	8.2	2.99	0.54	9 <sup>th</sup>	20	0	0	1	1	8	6	3	1	1	2	6	11	4	5	2
83	4.7	1.94	0.65	12 <sup>th</sup>	11	0	0	0	10	5	0	7	1	0	1	5	7	6	1	3
83	5.7	1.40	0.45	26 <sup>th</sup>	12	0	0	0	7	8	0	6	5	0	0	4	9	4	2	1
74	4.5	0.43	0.15	29 <sup>th</sup>	7	0	0	0	7	9	0	3	8	3	0	1	9	4	3	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.	Therm. 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.	
2	Malin Head	-	-	-	-	-	-	-	-	-	-	-	1 N.E.	-	-	-	-	-
3	Loughborough	-	-	-	-	-	-	-	-	64	-	-	-	-	-	-	-	-
5	Yarmouth...	-	-	-	-	-	29.86	-14	-	-	-	-	-	-	-	-	-	-
6	Mullaghmore	-	-	-	-	-	-	-	-	-	-	-	-	-	-	63	-	-
-	Parsonstown	-	-	-	-	-	-	-	-	-	-	-	-	-	-	68	-	-
-	Prawle Point..	-	-	-	-	-	30.17	-	-	-	-	-	-	-	-	-	-	-
7	Loughborough	-	-	-	-	-	-	-	-	-	-	-	-	C	-	-	-	-
-	Yarmouth...	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	No rain
8	Belmullet...	29.90	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
9	Sumburgh Hd	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.02
-	Mullaghmore	-	-	W.S.W.	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	Belmullet...	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.10
-	Roche's Point..	-	-	-	-	-	29.75	-	-	-	-	-	-	-	-	-	-	-
11	Stornoway...	-	-	-	-	-	-	-	-	-	-	-	-	-	-	65	-	-
-	Mullaghmore	-	-	-	-	-	-	-	-	58	-	-	-	-	-	-	-	-
-	Prawle Point..	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.06
12	Sumburgh Hd	-	-	-	-	-	-	-	-	-	-	-	-	-	-	55	-	-
-	Nairn.....	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.01
-	Malin Head	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	57	-
-	Mullaghmore	-	62	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	Valencia.....	-	-	-	-	-	-	-	-	-	-	-	-	-	-	69	-	-
13	Bano.....	29.97	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	Aberdeen.....	29.63	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	Jersey.....	29.96	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	Sumburgh Hd 2pm	-	-	-	-	-	29.57	-	-	-	-	-	-	-	-	-	-	-
14	Jersey.....	-	-	-	-	-	-	-	62	60	-	-	-	-	-	-	-	-
15	Scilly.....	-	-	-	-	-	29.15	+19	-	-	-	-	-	-	-	-	-	-
16	Mullaghmore 2pm	-	-	-	-	-	-	-	57	-	-	-	-	-	2	-	-	-
17	Liverpool.....	-	-	-	-	-	-	-	-	55	-	-	-	-	2	65	52	0.23
18	Loughborough	-	-	W.S.W.	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	Kilrush Castle..	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	46	-
19	Stornoway	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.01
-	Valencia.....	-	-	-	-	-	-	-	-	-	-	-	-	-	-	65	-	0.01
20	Nairn.....	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.01
21	Trick.....	30.22	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.01
-	Belmullet.....	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
23	Belmullet. 2pm	-	-	-	-	-	-	-	62	-	-	-	-	-	-	62	-	-
24	Belmullet	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	Scilly.....	-	-	-	-	-	30.02	-	-	-	-	-	-	-	-	-	-	-
25	Malin Hd..	-	-	-	-	-	-	-	-	-	-	-	-	-	-	62	-	-
26	Ardrrossan...	-	-	-	-	-	-	-	57	-	2	-	-	-	-	61	-	-
-	Malin Head	-	-	-	-	-	-	-	-	-	-	-	-	-	-	60	-	-
-	Prawle Point.	-	-	-	-	-	29.74	-14	-	-	-	-	-	-	-	-	-	-
27	Jersey.....	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.09
28	Parsonstown	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.10
-	Darrov. in. div.	-	-	-	-	-	-	-	62	-	-1	-	-	-	-	-	-	-