

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: Dungeness Crab, Little Rock Crab*



# DAILY WEATHER REPORT.

for Thursday 1<sup>st</sup> September

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	29.48	56	E	2	0	29.58	+ 1.0	55	54	- 2	SW	4	7	*	57	54	0.20	
Hernösand	29.52	60	S	2	bc	29.64	+ 0.5	58	55	- 1	SSW	6	6	*	70	55	0.39	
Stockholm	29.64	62	S	2	0	29.60	- 1.3	62	59	- 3	SW	4	bc	*	72	55	0.28	
Wishby	29.67	66	S	4	0	29.70	- 0.9	63	59	- 1	SW	6	bc	*	73	57	0.04	
Bodo	29.39	51	WSW	2	0	29.42	- 2.2	55	54	+ 3	ENE	2	7	1	57	48	-	
Christiansund	29.21	58	NE	3	0	29.12	- 2.7	55	54	- 1	WSW	4	e	2	61	50	0.08	
Skudesnaes	29.19	59	S	2	0	29.37	- 0.4	56	54	- 2	W	4	0	5	?	?	-	
Christiania Fjord (Purder)	29.36	60	SSW	5	bc	29.36	- 2.2	60	57	0	SSW	6	e	4	?	59	0.59	
Skagen (The Scaw)	29.38	60	SW	4	0	29.44	- 1.6	59	57	- 1	SW	5	0	3	63	57	0.43	
Fanö	29.50	61	SW	6	c	29.58	+ 0.0	63	59	+ 4	WSW	6	c	*	66	59	0.04	
BRITISH ISLANDS.																		
Sumburgh Head	29.21	53	N	1	f	29.31	+ 0.1	54	53	0	NW	1	c	1	57	49	0.01	
Stornoway	29.26	58	E	3	c	29.30	+ 0.7	57	56	0	SW	4	bc	3	62	55	0.04	
Wick	29.24	58	E	1	bc	29.24	+ 1.0	56	55	0	W	0	0	0	60	47	0.01	
Nairn	29.24	58	W	0	r	29.25	+ 1.3	57	54	+ 2	SW	1	c	1	67	52	0.01	
Aberdeen	29.26	57	WNW	1	c	29.38	+ 1.5	54	53	- 3	W	1	e/p	0	60	49	0.03	
Leith	29.25	57	W	1	c	29.43	+ 2.4	58	55	- 1	WSW	1	bc	*	61	53	0.15	
Shields	29.31	62	SW	3	c	29.49	+ 2.6	56	53	- 4	SW	2	c	1	65	53	0.04	
Spurn Head	29.44	60	WSW	5	bc	29.60	+ 2.7	59	55	- 3	SW	5	bc	3	65	55	0.10	
York	29.40	59	W	3	c	29.57	+ 2.8	57	54	- 3	SW	4	c	*	66	54	0.10	
Loughborough	29.51	62	WSW	3	c	29.64	+ 3.1	57	54	- 1	SW	3	0	*	67	53	0.17	
Ardrossan	29.29	57	W	3	op	29.43	+ 2.3	57	55	0	SSW	3	c	2	60	62	0.34	
Malin Head	29.35	57	WNW	3	op/p	29.39	+ 2.0	55	53	- 1	SSW	3	c	3	60	58	0.91	
Mullaghmore	29.44	59	WNW	6	qcp	29.43	+ 1.8	55	53	- 2	SSW	2	c	3	62	50	0.15	
Belmullet	29.49	57	WNW	4	bc	29.40	+ 0.6	57	55	+ 2	SSW	2	0	*	62	55	0.09	
Donaghadee	29.39	57	W	3	0	29.48	+ 2.4	56	54	+ 1	SW	3	bc	1	67	49	0.14	
GERMANY.																		
Barrow-in-Furness	29.37	60	WSW	6	0	29.50	+ 2.4	58	55	- 1	WSW	4	c	*	63	56	0.02	
Liverpool (Bidston)	29.44	57	WSW	7	0	29.57	+ 2.6	57	53	- 1	SSW	1	0	2	65	53	0.05	
Holyhead	29.47	59	W	5	c/p	29.54	+ 2.2	58	55	+ 1	SW	4	c	4	63	54	0.07	
Parsonstown	29.54	59	SW	2	c	29.46	+ 1.0	56	54	- 2	SW	2	c	*	65	51	0.24	
Valencia	29.66	58	W	4	c/p	29.57	- 1.5	58	56	0	SE	5	op	5	65	54	0.17	
Roche's Point	29.64	62	WNW	4	b	29.71	- 0.1	57	55	- 2	SW	3	7m	4	64	54	0.12	
Pembroke	29.59	61	W	7	bc	29.58	+ 1.6	58	56	- 2	S	4	0	6	62	56	0.02	
Seilly	29.75	61	W	6	c	29.60	+ 0.0	58	58	- 4	SSW	5	7	5	64	56	0.46	
Prawle Point	29.74	60	SW	6	bc	29.70	+ 2.3	57	57	- 3	SSW	5	7	5	64	54	0.07	
Jersey	29.83	64	W	7	bm	29.80	+ 1.0	62	59	- 2	WSW	5	op/m	4	67	60	-	
Hurst Castle	29.67	63	WSW	8	bc	29.74	+ 2.0	62	61	+ 1	WSW	6	c	5	65	58	-	
Dungeness	29.65	63	WSW	6	0	29.75	+ 2.3	62	59	- 1	W	6	0	5	66	60	-	
London	29.63	63	SW	3	c/p	29.74	+ 2.5	60	57	- 2	S	2	0	*	69	55	0.10	
Oxford	29.65	59	SW	4	b	29.70	+ 1.6	56	55	- 1	SSW	3	7	*	65	54	0.14	
Cambridge	29.57	64	SSW	4	b	29.70	+ 3.0	59	56	- 3	S	3	0	*	69	52	-	
Yarmouth	29.52	64	WSW	5	bc	29.70	+ 2.6	58	56	- 4	WSW	4	c	4	68	54	-	
Cuxhaven	29.70	60	SW	5	7	29.72	+ 0.5	60	59	- 1	SW	5	0	*	65	58	0.40	
Berlin	29.80	67	SW	2	7	29.91	+ 0.5	64	60	- 3	SSW	3	c	*	81	57	0.12	
Wiesbaden	29.80	67	SW	2	7	29.91	+ 0.5	64	60	- 3	SSW	3	c	*	81	57	0.12	
Munich	29.80	67	SW	2	7	29.91	+ 0.5	64	60	- 3	SSW	3	c	*	81	57	0.12	
FRANCE & NETHERLANDS.																		
The Helder	29.60	63	WSW	7	b	29.71	+ 1.9	62	58	+ 1	SW	5	bc	4	68	61	0.16	
Brussels	29.69	63	W	8	bc	29.86	+ 1.9	57	?	- 5	SSW	4	0	*	70	58	0.04	
Cape Gris Nez	29.69	63	W	8	bc	29.76	+ 1.9	?	?	?	W	8	c	6	?	?	0.04	
Paris	29.86	68	SW	4	b	29.95	+ 1.4	57	56	- 4	SW	1	b	*	74	63	0.04	
Brest	29.91	63	W	5	0	29.92	+ 0.6	60	59	0	SW	5	7	5	73	57	-	
Lorient	29.95	63	WNW	7	bc	29.84	+ 0.3	63	59	0	WSW	5	0	5	66	59	-	
Rochefort	30.04	67	W	4	b	30.01	+ 0.4	64	62	0	SW	4	bc	2	73	59	-	
Belfort	30.03	69	W	1	7	30.01	?	63	57	- 6	W	1	bc	*	76	48	0.16	
Lyons	30.01	67	NE	3	0	30.03	+ 0.6	61	60	- 6	WNW	1	0	*	81	60	0.24	
Nice	30.00	69	W	0	b	30.02	- 0.2	67	62	- 2	W	0	bc	0	79	61	-	
Perpignan	29.98	72	W	0	c	29.94	- 0.4	66	63	- 2	NE	3	b	*	81	62	0.08	
Biarritz	30.07	69	W	0	0	30.01	+ 0.0	67	65	- 3	SW	3	c	5	73	64	-	
Corunna	30.07	66	W	5	b	29.99	- 0.9	66	62	- 3	SSW	1	b	4	72	54	-	
Lisbon	30.07	66	W	5	b	30.03	- 0.3	64	59	- 4	N	7	b	4	71	61	-	

For Explanation of Columns, see p. 4.

† Received too late for insertion in Charts.



# WEATHER CHARTS

for 8 a.m. on

Thursday, 1<sup>st</sup> September

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.

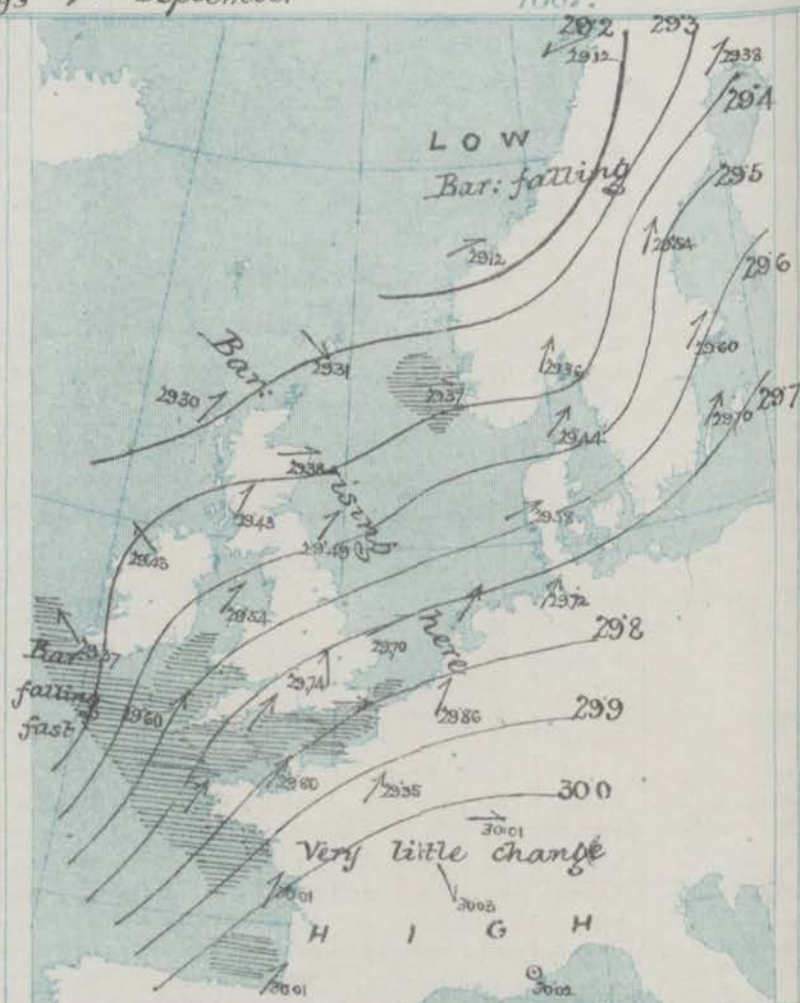
**Sea Disturbance** — where considerable is shown thus

■ = Rough. ■ = High.

## MEAN HEIGHT of the BAROMETER

at 8 a.m. for the month of September.  
During the 10 Years 1871-1880.

STATIONS.	MEAN READINGS.
	in.
Sumburgh Head	29.758
Stornoway	29.781
Wick	29.786
Nairn	29.812
Aberdeen	29.815
Leith	29.851
Shields	29.876
York	29.913
Ardrossan	29.858
Donaghadee	29.875
Holyhead	29.903
Liverpool	29.910
Valencia	29.929
Roche's Point	29.923
Pembroke	29.924
Silly	29.960
Hurst Castle	29.978
Dover	29.955
LONDON	29.958
Oxford	29.943
Cambridge	29.943
Yarmouth	29.928



## 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.

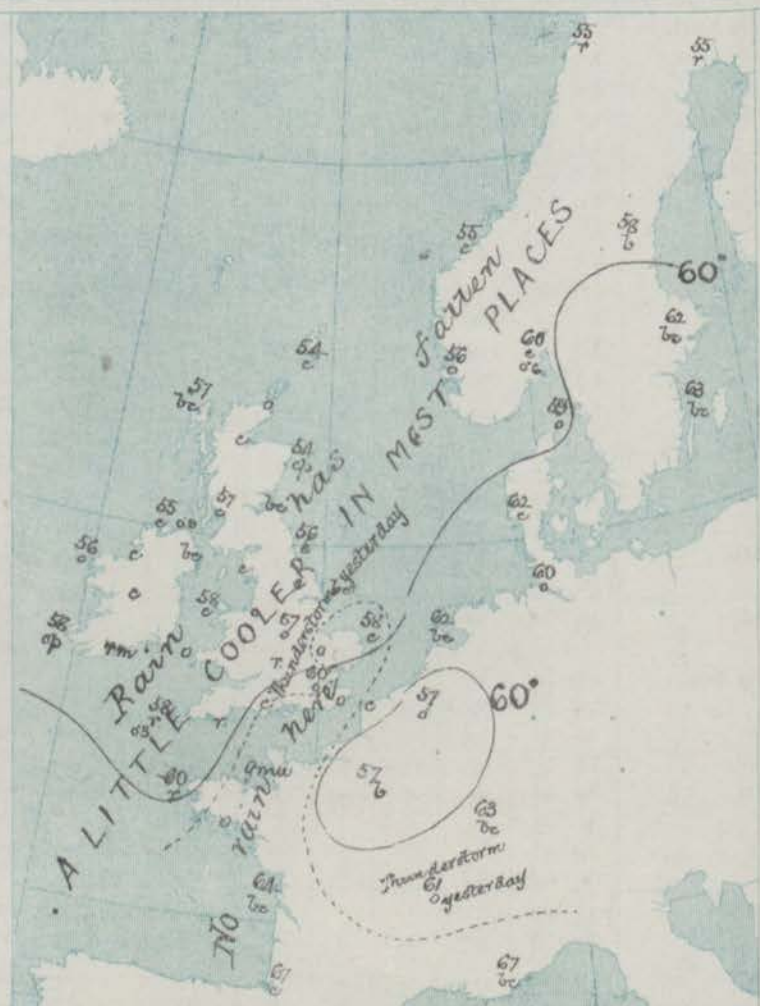
**Rainfall** — A dotted line separates the districts in which rain has fallen from those where there has been none. Falls of 0.5 in. or more, are quoted in figures.

## MEANS OF TEMPERATURE IN SHADE. AND RAINFALL.

for the month of September

STATIONS	TEMPERATURE				RAINFALL (Inches)
	Daily Max	Daily Min	Average Day	Average Night	
Sumburgh Head	55.2	45.2	50.6	49.0	3.46
Stornoway	55.9	45.4	51.0	49.7	4.13
Wick	57.5	46.3	51.6	49.7	2.66
Nairn	59.0	47.0	51.3	48.8	2.73
Aberdeen	58.0	47.1	52.0	49.6	3.22
Leith	62.7	47.8	53.5	51.1	2.47
Shields	60.0	49.0	53.4	51.2	2.58
York	63.2	47.3	53.1	51.2	2.08
Ardrossan	60.0	49.0	53.3	51.0	3.87
Donaghadee	59.5	49.2	53.3	52.1	3.22
Holyhead	61.1	53.1	55.6	53.4	3.35
Liverpool	61.3	51.2	54.7	52.0	3.56
Valencia	61.9	52.0	56.4	53.9	4.87
Roche's Point	62.0	51.7	55.4	53.2	4.39
Pembroke	60.4	53.4	56.3	53.9	3.89
Silly	61.9	55.2	58.5	56.5	3.09
Hurst Castle	64.4	52.9	57.8	56.3	3.35
Dover	63.1	52.8	58.3	55.4	2.86
LONDON	66.9	49.3	56.4	54.0	2.50
Oxford	63.8	39.0	54.2	52.4	2.91
Cambridge	65.8	48.5	54.5	52.9	2.48
Yarmouth	63.2	50.8	56.3	54.4	3.17

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, 30.0 in: and more, over Spain and the southern half of France. Lowest, 29.1 in: in northwest of Norway, 29.3 in: at Lumburgh H <sup>d</sup> , Honoway and off the west of Ireland. Gradients steepest in southwest. Barometer rising in east, falling briskly in southwest, especially at Valencia.
TEMPERATURE	Highest, 67° at Alize and Biarritz, 64° at Lisbon and Rochefort, 63° at Albi, 60° in London. Lowest, 54° at Lumburgh H <sup>d</sup> , 55° in NW of Norway, 56° at Belmullet and 58° at Valencia. It is rather lower in France than it was yesterday.
WIND	Great W <sup>ly</sup> and SW <sup>ly</sup> over the North Sea and English Channel, light SW <sup>ly</sup> in Scotland. S <sup>ly</sup> and SE <sup>ly</sup> in Ireland, and increasing in force at Valencia. The strong winds and moderate gales noticed in the Channel yesterday have lulled. Fair at present in the east and north and over France and very rainy in southwest.
WEATHER	General appearance is changeable and unsettled. [Rain fell yesterday at all but our extreme S <sup>ly</sup> and E <sup>ly</sup> stations, and thunder occurred in many parts of England, France and Holland.]
SEA	Rough in the west and south, slight in the northwest and north, smooth in the east.

## PROBABLE CHANGES IN SYSTEM NOW PREVALENT

The sudden and considerable backing of the wind in the west and southwest, accompanied by rain and a decided fall of the barometer at Valencia, points to the advance of a new depression towards Ireland from the Atlantic.

As the gradients are already rather steep in the SW. the south cone has been at once hoisted in Ireland and England SW.

NOTE. Reports are still coming to hand showing that a very severe gale prevailed over the W. part of the Atlantic on the 26<sup>th</sup> ult.

## FORECASTS

For the 24 hours ending at NOON on 2<sup>nd</sup> September. 1887.

DISTRICTS.	FORECASTS.	DISTRICTS.	FORECASTS.
0 SCOTLAND NORTH	S <sup>ly</sup> winds, increasing; rainy.	6 SCOTLAND WEST	S <sup>ly</sup> and SW <sup>ly</sup> winds, increasing considerably, with rain.
1 SCOTLAND EAST	----- D <sup>o</sup> ----- D <sup>o</sup> ----- D <sup>o</sup> -----	7 ENGLAND N. W.	----- D <sup>o</sup> ----- D <sup>o</sup> ----- D <sup>o</sup> -----
2 ENGLAND N. E.	SW <sup>ly</sup> and S <sup>ly</sup> winds, increasing; fine to rainy.	8 ENGLAND S. W.	----- D <sup>o</sup> ----- D <sup>o</sup> ----- D <sup>o</sup> -----
3 ENGLAND EAST	----- D <sup>o</sup> ----- D <sup>o</sup> ----- D <sup>o</sup> -----	9 IRELAND NORTH	----- D <sup>o</sup> ----- D <sup>o</sup> ----- D <sup>o</sup> -----
4 MIDLAND COUNTIES	Same as No 5	10 IRELAND SOUTH	----- D <sup>o</sup> ----- D <sup>o</sup> ----- D <sup>o</sup> -----
5 ENGLAND SOUTH	S <sup>ly</sup> winds, increasing; becoming rainy again and squally. (Probably a gale.)	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.
Skudeenæs ...	29.26	60	58	SSE 4	T	3	Holyhead ...	29.41	61	57	NW 5	cq/p	5
Sumburgh Head ...	29.28	56	55	EHE 1	m	1	Valencia ...	29.64	64	59	W 6	cq	6
Stornoway ...	29.24	62	60	E 2	bc	2	Scilly ...	29.72	64	62	WNW 7	cq	6
Aberdeen ...	29.23	59	56	NNE 2	0	1	Dungeness ...	29.61	66	61	W 6	c	5
Shields ...	29.26	64	55	SW 3	c	2	London ...	29.57	69	59	NW 5	bc	*
Ardrossan ...	29.25	58	56	SW 4	c	3	Yarmouth ...	29.48	67	60	NW 6	bcq	4
Malin Head ...	29.29	57	56	WNW 3	0	3	Jersey ...	29.81	66	61	NW 7	b	5
Mullaghmore ...	29.40	60	58	WNW 6	cq/p	6	Rocheport ...	30.04	72	70	W 5	bc	2
Belmullet ...	29.46	62	57	WNW 3	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 30.3 ins. and upwards were reported over Central Russia relatively high readings were found over the whole of Southern Europe. The lowest pressures 29.2 ins. and less, were reported in a well defined and somewhat deep depression the centre of which lay off the west of Scotland. Strong breezes from SW. and W. prevailed over England, Ireland and the north of France, and moderate to strong breezes from SE or S. over Scandinavia, Germany and the Baltic, but in the north of Scotland the wind was light from the E<sup>nd</sup>, while over southern Europe it was very variable. Showery, squally, weather was reported over the whole of Northwestern Europe, but in the East and South conditions were mostly fair. Temperature had risen a little in Russia and also in Algeria and Spain, but elsewhere it had fallen slightly; readings ranged from 75° and upwards over Italy and Algeria to 55° or less over Central Russia and the extreme north of our Islands. The highest individual readings were 79° at Algiers and Barcelona, 78° at Oran, La Calle, Biskia, Cagliari and Palermo, and 77° at Aumale, Brindisi and Malta; the lowest were 52° at Christiansund, 53° at Kharkov, and 54° at Sumburgh H<sup>d</sup>, Moscow and Kiev.

In the course of the day the depression off the west of Scotland travelled northwards towards Norway, and the barometer rose in most parts of our Islands. Squally, showery weather continued, however, over Ireland and England, with thunder 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 2<sup>nd</sup> September 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 ..	29.30	57	S	6	O	29.36	-0.2	55	52	0	Wsw	2	b	*	59	52	0.35	
Hernösand ..	29.38	56	S	2	bc	29.64	+1.0	57	54	-1	Z	0	b	*	64	55	-	
Stockholm ..	29.68	57	W	4	bc	29.81	+2.1	60	55	-2	Wsw	2	c	*	68	54	0.35	
Wisby ..	29.78	60	W	4	bc	29.87	+1.7	60	57	-3	Wsw	4	b	*	70	57	-	
Bodo ..	29.17	53	Z	0	T	29.46	+3.4	51	50	-4	Wsw	6	O	3	57	48	0.43	
Christiansund ..	29.44	53	W	1	T	29.56	+1.44	54	53	-1	ESE	1	b	2	59	50	0.59	
Skudesnes ..	29.57	57	S	4	O	29.51	+1.4	58	54	+2	ESE	6	T	4	55	-	-	
Christiania Fjord (Færder)	29.51	60	SW	7	bc	29.69	+3.3	59	57	-1	S	3	bc	3	61	57	-	
Skagen (The Scaw)	29.63	56	W	1	b	29.70	+2.6	59	58	0	S	2	bc	1	61	54	0.28	
Fanø ..	29.74	59	SW	4	b	29.59	+0.1	59	56	-4	SE	5	c	*	64	57	-	
BRITISH ISLANDS.																		
Sumburgh Head	29.43	54	Z	0	O	29.34	+0.3	53	52	-1	E	2	O	2	60	48	-	
Stornoway ..	29.38	58	SW	2	O	29.22	-0.8	55	55	-2	E	4	O	4	61	42	0.15	
Wick ..	29.40	57	Z	0	O	29.18	-1.6	56	56	0	ESE	3	T	1	63	43	0.82	
Nairn ..	29.39	55	NE	1	bc	29.13	-2.2	55	55	-2	ESE	3	T	1	67	48	0.21	
Aberdeen ..	29.41	58	SW	2	b	29.08	-3.0	56	56	+2	SE	3	T	2	65	51	1.20	
Leith ..	29.39	61	SW	1	c	29.02	-4.1	59	55	+1	SE	1	c	*	69	53	0.40	
Shields ..	29.44	60	SE	3	op	29.03	-4.6	55	54	-1	ESE	3	T	3	67	54	0.38	
Spurn Head ..	29.52	60	SSW	5	c	29.12	-4.8	58	55	-1	SSE	6	opq	3	66	51	0.06	
York ..	29.50	59	S	2	T	29.01	-5.6	55	54	-2	SSE	4	T	*	65	54	0.22	
Loughborough	29.50	58	S	3	O	29.02	-6.2	57	55	0	SW	7	cq	*	64	56	0.27	
Androsau ..	29.37	62	Z	0	c	29.03	-4.0	56	56	-1	Wsw	2	opm	1	63	49	0.55	
Malin Head ..	29.28	58	SSE	4	op	29.12	-2.7	57	54	+2	Wsw	4	op	4	61	54	0.24	
Mullaghmore ..	29.22	57	ESE	5	OT	29.22	-2.1	55	54	0	W	6	op	5	61	54	1.33	
Belmullet ..	29.24	55	ESE	2	T	29.34	-0.6	57	55	0	W	4	bc	*	60	54	1.02	
Donaghadee ..	29.33	56	SE	5	O	29.09	-3.9	55	55	-1	Wsw	2	O	0	62	54	1.25	
Barrow-in-Furness	29.38	58	E	6	T	28.95	-5.5	54	54	-4	NE	3	op	*	63	54	0.73	
Liverpool (Bidston)	29.37	56	ESE	3	T	28.89	-6.8	55	54	-2	Wsw	1	T	2	60	54	0.44	
Holyhead ..	29.29	57	ESE	4	Tq	29.03	-5.1	58	57	0	Wsw	5	cq	5	62	54	0.48	
Parsonstown ..	28.96	56	NE	2	T	29.27	-1.9	55	50	-1	NE	3	O	*	60	52	0.56	
Valencia ..	28.90	61	T	2	c	29.46	+0.9	61	56	+3	W	5	cq	5	63	54	0.96	
Roche's Point ..	28.89	58	SSE	5	T	29.36	-1.1	57	53	0	W	5	bc	4	60	53	0.75	
Pembroke ..	29.15	57	S	8	T	29.16	-4.2	58	57	0	W	6	cq	7	60	53	0.79	
Scilly ..	29.25	60	Wsw	8	O	29.47	-1.3	59	59	+1	W	9	c	7	61	55	0.84	
Prawle Point ..	29.36	57	S	8	T	29.34	-3.6	55	55	-2	Wsw	8	T	8	59	53	0.40	
Jersey ..	29.56	63	SW	6	opm	29.52	-2.8	62	57	0	Wsw	8	bc	7	65	59	0.28	
Hurst Castle ..	29.53	59	SW	6	pd	29.34	-4.0	57	57	-5	Wsw	10	T	7	63	54	0.68	
Dungeness ..	29.67	62	SW	4	c	29.41	-3.4	60	57	-2	SW	8	T	6	65	60	0.25	
London ..	29.58	58	SSE	4	ogd	29.29	-4.5	59	55	-1	SW	7	op	*	65	57	0.35	
Oxford ..	29.44	57	SW	3	T	29.14	-5.6	57	55	+1	S	6	Tq	*	64	56	0.31	
Cambridge ..	29.60	61	S	2	O	29.18	-5.2	59	55	0	S	7	O	*	67	55	0.08	
Yarmouth ..	29.64	63	SW	5	cq	29.32	-3.8	61	57	+3	SW	6	cq	6	66	57	0.04	
Cuxhaven ..	29.74	63	SW	3	c	29.67	-0.5	60	58	0	S	4	O	*	63	58	-	
Berlin ..	29.90	67	Z	0	bc	29.82	-0.9	67	62	+3	SSE	2	c	*	77	59	-	
Wiesbaden ..	30.03	62	SE	2	b	29.79	-1.8	65	62	+2	Z	0	c	*	73	57	0.08	
Munich ..	30.03	62	SE	2	b	29.94	-1.3	62	60	0	E	2	b	*	70	54	0.04	
GERMANY.																		
The Helder ..	29.72	60	SSE	1	O	29.47	-2.4	64	61	+2	SW	5	c	3	66	59	0.04	
Brussels ..	29.64	60	S	4	O	29.60	-2.6	63	59	+6	SW	3	T	*	69	61	0.04	
Cape Gris Nez ..	29.77	66	S	3	bc	29.47	-2.9	62	61	?	SW	9	O	7	64	59	0.12	
Brest ..	29.48	59	W	9	O	29.73	-2.2	60	58	+3	SW	4	bc	*	70	57	-	
Lorient ..	29.62	63	SW	9	T	29.65	-1.7	59	53	-1	SW	9	T	7	78	52	0.35	
Rochefort ..	29.85	67	SW	5	O	29.71	-1.3	61	55	-2	W	8	bc	7	66	57	0.24	
Belfort ..	29.95	66	W	1	bc	29.85	-1.5	64	63	0	W	7	b	2	73	57	0.12	
Lyons ..	29.85	73	S	5	bc	29.82	-2.1	68	61	+7	S	5	bc	*	80	57	-	
Nice ..	29.96	67	S	1	b	29.95	-0.7	69	64	+2	Z	0	c	0	77	63	-	
Perpignan ..	29.80	79	S	5	b	29.87	-0.7	67	64	+1	SE	3	c	*	86	64	-	
Biarritz ..	29.79	74	E	4	O	29.93	-0.8	67	62	0	W	7	T	2	80	66	-	
FRANCE & NETHERLANDS.																		
Corunna ..	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	
Lisbon ..	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	

For Explanation of Columns, see p. 4.

† Received too late for insertion in Charts.



# WEATHER CHARTS

For 8 a.m. on

Friday, 2<sup>nd</sup> September

## BAROMETER, WIND & SEA.

(Explanation of Map)

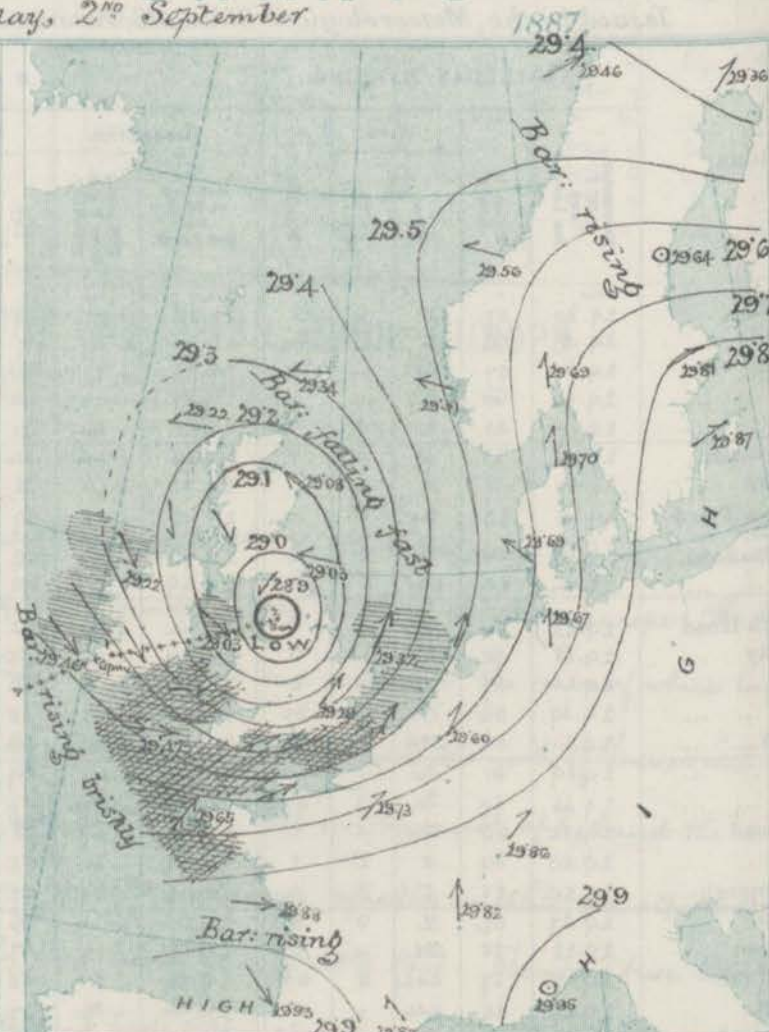
**Barometer** — Isobars are drawn for each tenth of an inch. Changes since previous morning are stated in words.  
**Wind** — Arrows show the prevalent winds. They fly with the wind and their barbs and feathers refer to force, thus —  
 — force above 10, — force 8 to 10,  
 — force 5 to 7, — force 1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

STATIONS	MEAN READINGS
	in.
Sumburgh Head	29.768
Stornoway	29.781
Wick	29.786
Nairn	29.812
Aberdeen	29.815
Leith	29.851
Shields	29.878
York	29.913
Ardrossan	29.858
Donaghadee	29.875
Holyhead	29.903
Liverpool	29.910
Valencia	29.920
Roche's Point	29.923
Pembroke	29.924
Scilly	29.980
Hurst Castle	29.978
Dover	29.965
LONDON	29.968
Oxford	29.943
Cambridge	29.943
Yarmouth	29.938



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

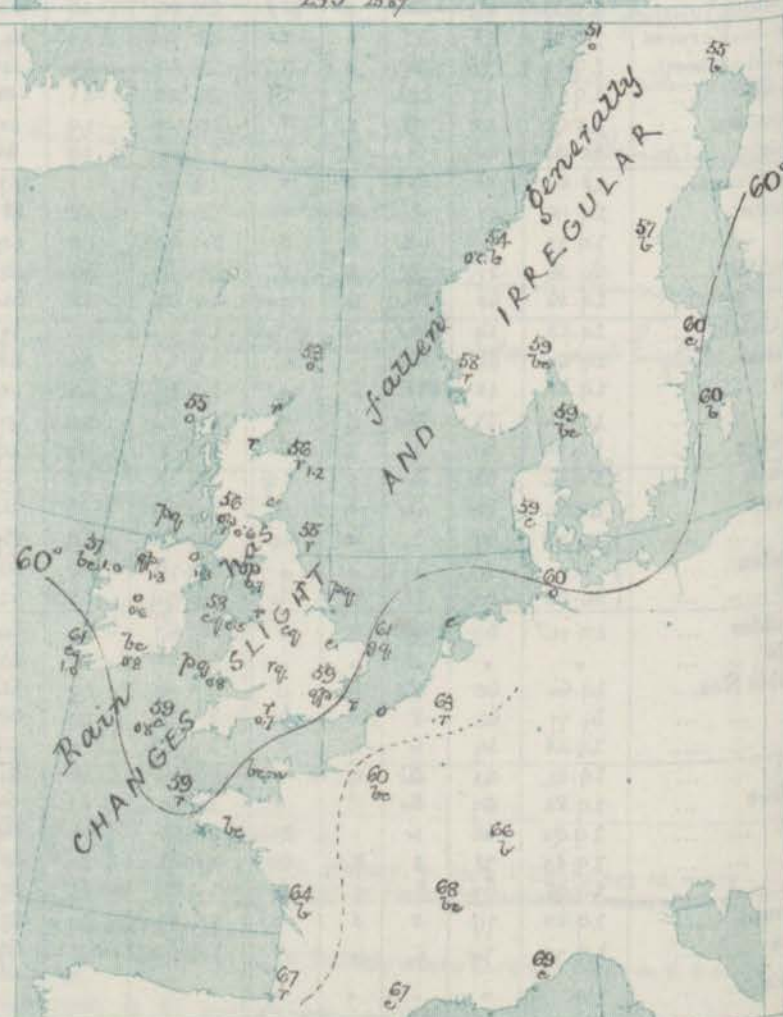
**Temperature** — Isotherms are drawn for each 10° Changes since previous morning are stated in words.  
**Weather** — is shown by Letters of the Beaufort Scale.  
**Rainfall** — A dotted line separates the districts in which rain has fallen from those where there has been none. Falls of 0.5 in. or more,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

## MEANS OF TEMPERATURE IN SHADE. AND RAINFALL.

for the month of September.

STATIONS	TEMPERATURE				RAINFALL (Inches)
	Daily Max.	Daily Min.	At 8 a.m.		
			Day.	Night.	
Sumburgh Head	55.2	46.2	50.6	49.0	3.46
Stornoway.	55.9	45.4	51.0	49.7	4.13
Wick	57.5	45.8	51.6	49.7	2.66
Nairn	59.0	47.0	51.3	48.8	2.73
Aberdeen	58.0	47.1	52.0	49.6	3.22
Leith	62.7	47.8	53.5	51.1	2.47
Shields	60.0	49.0	53.4	51.2	2.58
York	63.2	47.3	53.1	51.2	2.98
Ardrossan.	59.9	49.9	53.6	51.0	3.87
Donaghadee.	59.5	49.2	53.3	52.1	3.23
Holyhead	61.1	53.1	55.6	53.4	3.35
Liverpool	61.3	51.2	54.7	52.0	3.56
Valencia.	61.9	52.0	55.4	53.9	4.57
Roche's Point.	62.0	51.7	55.4	53.2	4.39
Pembroke	60.4	53.4	56.3	53.9	3.89
Scilly	61.9	55.2	58.5	56.5	3.69
Hurst Castle.	64.4	52.9	57.8	56.3	3.35
Dover	63.1	52.8	58.3	55.4	2.86
LONDON.	66.9	49.3	58.4	54.0	2.59
Oxford	63.8	49.0	54.2	52.4	2.91
Cambridge	65.8	48.5	54.5	52.9	2.48
Yarmouth	62.3	50.6	56.3	54.4	3.17

Note — The Temperature means are for the 10 years 1871—80, the Rainfall means are mainly those for the 10 years 1866—75.





# GENERAL SITUATION AT 8 A.M.

## PRESSURE

Highest, 29.9 in. and upwards, in the southwest and southeast of France; 29.8 in. and upwards, over the Baltic. as 28.65 in.  
 Lowest, 28.9 in. and less, in a depression the centre of which lies near Liverpool; at Pembroke the barometer at midday was as low.  
 Barometer rising in W. and SW. falling quickly in the N. and E.

## TEMPERATURE

Highest, 65° at Nice, 68° at Lyons, 67° at Biarritz and Perpignan, and 64° at Helder, Rochefort and Belfort.  
 Lowest, 51° at Bodo, 53° at Sumburg 11°, 54° at Christiansund, and Banow in Turners, and 55° at Haparanda and several of our own NW stations.

## WIND

Fresh or strong from NW. on our west coasts.  
 Strong to a whole gale from SW. or W. over the Channel and Bay of Biscay.  
 Fresh from S. or SE. over the greater part of the North Sea; light from E. or NE. in the north of Scotland.  
 Heavy in the N. and NE. of our Islands, showery in the W. and SW.

## WEATHER

Fair at most of the Continental stations.  
 The heaviest amounts of rain measured this morning are 1.3 in. at Mullaghmore and Donaghadee, 1.2 in. at Aberdeen, and 1.0 in. at Valence.

## SEA

High in the Bristol and English Channels, as well as in the northern part of the Bay of Biscay, rather rough at Mullaghmore, Holyhead and Valence.

## PROBABLE CHANGES IN SYSTEM NOW PREVALENT

Pressure is relatively high (and rising) over the Baltic, and the deep depression over England seems likely to take a somewhat more northerly course than hitherto. Some increase in the force of the NE. wind is probable over Scotland, but over the southern part of our Islands a gradual improvement in the weather is likely.

## FORECASTS

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

1887.

### DISTRICTS.

### FORECASTS.

0	SCOTLAND NORTH	E <sup>2</sup> to NE <sup>2</sup> winds, freshening; squally, rainy.
1	SCOTLAND EAST	..... D <sup>o</sup> ..... D <sup>o</sup> ..... D <sup>o</sup> .....
2	ENGLAND N.E.	S <sup>2</sup> to W <sup>2</sup> winds, strong, squally and rainy at first but improving later.
3	ENGLAND EAST	..... D <sup>o</sup> ..... D <sup>o</sup> ..... D <sup>o</sup> .....
4	MIDLAND COUNTIES	..... D <sup>o</sup> ..... D <sup>o</sup> ..... D <sup>o</sup> .....
5	ENGLAND SOUTH	SW <sup>2</sup> gales, moderating gradually; squally and showery to fair.



### DISTRICTS.

### FORECASTS.

6	SCOTLAND WEST	NW <sup>2</sup> and W <sup>2</sup> winds, increasing in force; squally, showery.
7	ENGLAND N.W.	..... D <sup>o</sup> ..... D <sup>o</sup> ..... D <sup>o</sup> .....
8	ENGLAND S.W.	W <sup>2</sup> and NW <sup>2</sup> strong winds and gales; squally, showery.
9	IRELAND NORTH	W <sup>2</sup> and NW <sup>2</sup> strong winds and gales; squally, showery.
10	IRELAND SOUTH	..... D <sup>o</sup> ..... D <sup>o</sup> ..... D <sup>o</sup> .....

### WARNINGS

The S. cone was hoisted yesterday in districts 3. and 5 to 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.
Skudesnaes ...	29.50	58	53	W 4	0	4	Holyhead ...	29.45	59	57	S 4	c g/p	4
Sumburgh Head ...	29.40	59	54	W 1	c	1	Valencia ...	29.00	62	61	SSW 5	0	5
Stornoway ...	29.36	57	56	W 5	or	3	Seilly ...	29.32	60	60	S 9	T	7
Aberdeen ...	29.41	61	58	S 3	p	0	Dungeness ...	29.74	63	59	W 5	T	4
Shields ...	29.49	57	55	W 3	c	2	London ...	29.67	60	56	SSW 5	op	*
Ardrossan ...	29.44	61	56	SSW 2	bc	2	Yarmouth ...	29.69	66	59	SSW 5	bcg	4
Malin Head ...	29.35	58	54	SE 4	bc	3	Jersey ...	29.67	64	61	SSW 4	0	4
Mullaghmore ...	29.83	60	54	SE 4	ov	3	Rocheport ...	29.95	72	70	W 5	c	2
Belmullet ...	29.30	58	56	SSW 1	0	*							

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

The reports for yesterday morning showed that pressure then varied from 30.3 in: and more over Central Russia and from between 30.0 in: and 30.1 in: over Southern and South-eastern Europe generally to 29.2 in: in the northwest of Norway, and to about 29.3 in: near Valencia (Ireland). The winds reported over Northern and Western Europe were consequently SW<sup>ly</sup> or S<sup>ly</sup> very generally, but had backed to SE in the west of Ireland and to S over Brittany; in force they were fresh to strong except in the N. and NW. of our Islands, and were increasing at our SW<sup>ly</sup> stations. The weather was showery except over Central, south-eastern and eastern Europe where it was fine. Temperature was decreasing as a whole, and from about 73° over the southern part of the Mediterranean and some parts of Algeria to about 50° over Central and Northern Russia. The highest individual values were 79° at Biskra (Algeria) and Cagliari, 77° at Barcelona, Brindisi and Trieste, 73° at Casarsa, Livorno, Palermo, and Capri, 71° at Langueux and C. Sicile and 70° at Croisette; the lowest were 50° at Moscow and Archangel, 54° at Lumburgh, 53° at Haparanda, Bodö, and Christiansund, Malin H. and Mullaghmore.

Later in the day a deep depression arrived over the SW. of our Islands from the Atlantic, and SW<sup>ly</sup> gales and rain prevailed on our SW and S. coasts and in France.

### 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 3<sup>rd</sup> September

1887.

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

STATIONS.	† YESTERDAY EVENING.						8 A.M. TO DAY.										PAST 24 HOURS.		
	Barometer at 32° F. and Sea Level.	Temp. in Shade.	WIND.			Weather.	BAROMETER.		SHADE TEMP.			WIND.			Sea (0 to 9.)	Weather.	SHADE TEMP.		Amount of Rainfall.
			Dir.	Force. (0 to 12.)			Reading at 32° F. and Sea Level.	Difference from 8 a.m. yesterday.	Dry.	Wet.	Difference from 8 a.m. yesterday.	Dir.	Force. (0 to 12.)				Max.	Min.	
<b>SCANDINAVIA.</b>																			
Haparanda ..	29.61	54	SE	0	b		29.79	+ .18	54	53	- 1	SE	2	0	*		64	52	...
Hernösand ...	29.72	53	SE	0	bc		29.52	- .20	57	56	- 1	S	2	0	*		66	50	0.39
Stockholm ...	29.78	59	SE	2	0		29.70	- .08	63	59	+ 4	S	2	0	*		68	55	0.04
Wisby ...	29.78	61	SE	4	bc		29.76	- .02	63	60	+ 3	W	4	bc	*		72	54	0.04
Bodo ...	29.61	?	SE	0	c		29.39	- .22	53	51	+ 2	ENE	5	7	3		53	46	0.08
Christiansund...	29.38	58	E	2	T		29.14	- .24	57	55	+ 2	SE	1	c	2		59	52	0.16
Skudesnaes ...	29.19	59	SE	8	T		29.28	- .09	57	53	- 4	S	8	0	6		59	57	0.87
Christiania Fjord (Parker)	29.46	60	SE	5	c		29.41	- .05	59	57	- 2	SW	9	bc	6		61	59	0.51
Skagen (The Scaw)	29.49	60	S	3	bc		29.52	+ .03	59	56	- 3	SW	6	bc	4		64	57	0.12
Fanö ...	29.50	63	SW	6	c		29.65	+ .15	62	56	+ 6	W	6	c	*		70	59	...
<b>BRITISH ISLANDS.</b>																			
Sumburgh Head	29.08	54	ENE	1	0		29.19	+ .11	54	54	0	SE	0	0	3		55	49	0.39
Stornoway ...	29.19	55	W	4	T		29.39	+ .20	53	53	0	W	4	0	4		57	49	0.55
Wick ...	28.99	57	SE	0	m		29.18	+ .19	54	54	0	W	1	T	0		57	50	0.38
Nairn ...	29.07	54	W	3	0		29.36	+ .29	55	52	- 3	W	3	c	2		57	50	1.00
Aberdeen ...	29.03	56	W	1	T		29.36	+ .33	57	53	- 4	W	3	bc	1		64	51	0.24
Leith ...	29.11	57	W	3	c		29.46	+ .35	58	54	- 4	W	5	b	*		65	52	0.15
Shields ...	29.17	58	W	5	c		29.53	+ .36	58	53	- 5	W	2	bc	2		62	52	0.01
Spurn Head ...	29.35	60	W	5	c		29.68	+ .33	59	55	- 4	W	3	bc	3		65	55	0.04
York ...	29.26	60	W	4	c		29.68	+ .42	57	54	- 3	W	2	b	*		65	53	0.07
Loughborough	29.46	60	W	5	0		29.73	+ .27	58	55	- 3	W	4	bc	*		65	53	0.04
Adrossan ...	29.20	59	W	5	c		29.51	+ .31	57	54	- 3	W	4	c	3		61	51	0.04
Malin Head ...	29.31	57	W	4	bc		29.49	+ .18	55	53	- 2	W	3	b	2		68	52	0.17
Mullaghmore ...	29.39	57	W	5	cp		29.50	+ .11	56	54	- 2	S	4	c	3		61	51	0.06
Belinulet ...	29.44	57	W	5	bc		29.49	+ .05	55	54	- 1	SE	1	c	*		59	55	0.26
Donaghadee ...	29.34	60	W	3	bc		29.57	+ .23	56	54	- 2	W	5	b	3		63	48	0.06
<b>GERMANY.</b>																			
Barrow-in-Furness	29.22	69	W	6	bc		29.59	+ .37	59	54	- 5	W	5	cp	*		61	54	0.10
Liverpool (Bidston)	29.39	60	W	5	b		29.66	+ .27	57	53	- 4	W	2	b	3		60	52	0.13
Holyhead ...	29.42	59	W	5	c		29.64	+ .22	58	55	- 3	W	5	cp	5		61	55	0.03
Parsonstown ...	29.50	60	W	1	b		29.57	+ .07	58	55	- 3	W	2	bc	*		64	51	...
Valencia ...	29.62	57	W	5	op		29.68	+ .06	60	57	- 3	W	2	op	2		64	54	0.23
Roche's Point...	29.58	61	W	5	b		29.62	+ .04	60	57	- 3	W	4	c	4		68	52	0.01
Pembroke ...	29.55	60	W	6	bc		29.70	+ .15	59	57	- 2	W	5	c	5		62	56	0.03
Seilly ...	29.71	60	W	6	0		29.78	+ .07	58	56	- 2	W	4	op	5		61	55	0.16
Prawle Point ...	29.70	58	W	5	c		29.84	+ .14	58	56	- 2	W	5	c	5		62	55	0.02
Jersey ...	29.79	63	W	6	b		29.89	+ .10	62	58	- 4	W	5	bc	5		65	57	...
<b>FRANCE &amp; NETHERLANDS.</b>																			
Hurst Castle ...	29.65	61	W	8	bc		29.85	+ .20	61	57	- 4	W	5	bc	5		63	56	0.03
Dungeness ...	29.59	61	W	7	c		29.83	+ .24	61	58	- 3	W	5	c	5		64	56	0.09
London ...	29.60	58	W	3	bc		29.84	+ .24	60	55	- 5	W	3	bc	*		63	52	0.07
Oxford ...	29.62	57	W	4	c		29.80	+ .18	58	54	- 4	W	4	b	*		63	52	0.15
Cambridge ...	29.54	62	S	4	0		29.79	+ .25	60	56	- 4	W	2	b	*		68	51	0.02
Yarmouth ...	29.44	61	W	6	c		29.77	+ .33	59	56	- 3	W	5	bc	4		64	54	0.07
Cuxhaven ...	29.38	60	W	5	c		29.81	+ .43	59	56	- 3	W	3	b	*		68	56	...
Berlin ...	29.79	66	SE	1	c		30.00	+ .21	64	60	- 4	W	2	b	*		86	59	0.20
Wiesbaden ...	*	*	*	*	*		30.08	+ .08	60	57	- 3	W	2	b	*		73	52	0.08
Munich ...	29.99	66	W	4	c		30.14	+ .15	62	59	- 3	W	3	0	*		82	57	0.04
<b>ITALY.</b>																			
The Helder ...	29.56	63	W	9	0		29.79	+ .23	62	58	- 4	W	5	c	4		66	61	0.01
Brussels ...	*	*	*	*	*		30.12	+ .33	59	54	- 5	W	4	b	*		72	56	...
Cape Gris Nez...	29.63	63	W	9	c		29.87	+ .24	60	58	- 2	W	8	c	6		64	59	...
Paris ...	29.85	65	W	4	bc		30.04	+ .19	56	54	- 2	W	3	0	*		72	57	...
Brest ...	29.82	60	W	5	0		29.93	+ .11	59	57	- 2	W	4	0	5		73	55	0.08
Lorient ...	29.91	62	W	7	bc		29.94	+ .03	61	57	- 4	W	5	bc	5		64	55	...
Roche fort ...	30.02	65	W	7	bc		30.08	+ .06	63	60	- 3	S	4	m	2		72	57	...
Belfort ...	29.95	64	W	1	T		30.11	+ .16	62	54	- 8	W	1	b	*		74	51	0.24
Lyons ...	30.03	59	E	1	T		30.11	+ .08	59	58	- 1	N	1	c	*		77	?	0.47
Nice ...	29.97	69	W	0	bc		30.04	+ .07	60	67	+ 7	W	1	bc	0		79	61	...
Perpignan ...	29.99	70	W	4	0		30.05	+ .06	67	63	- 4	W	3	c	*		85	63	...
Biarritz ...	30.08	65	S	4	0		30.04	+ .04	60	58	- 2	E	4	0	3		70	57	0.04
Corunna ...	*	*	*	*	*		29.98	- .04	64	55	- 9	W	8	bc	5		72	61	...
Lisbon ...	30.02	64	W	7	0														

For Explanation of Columns, see p. 4.

† Received too late for insertion in Charts.



# WEATHER CHARTS

for 8 a.m. on Saturday, 3<sup>rd</sup> September.

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.

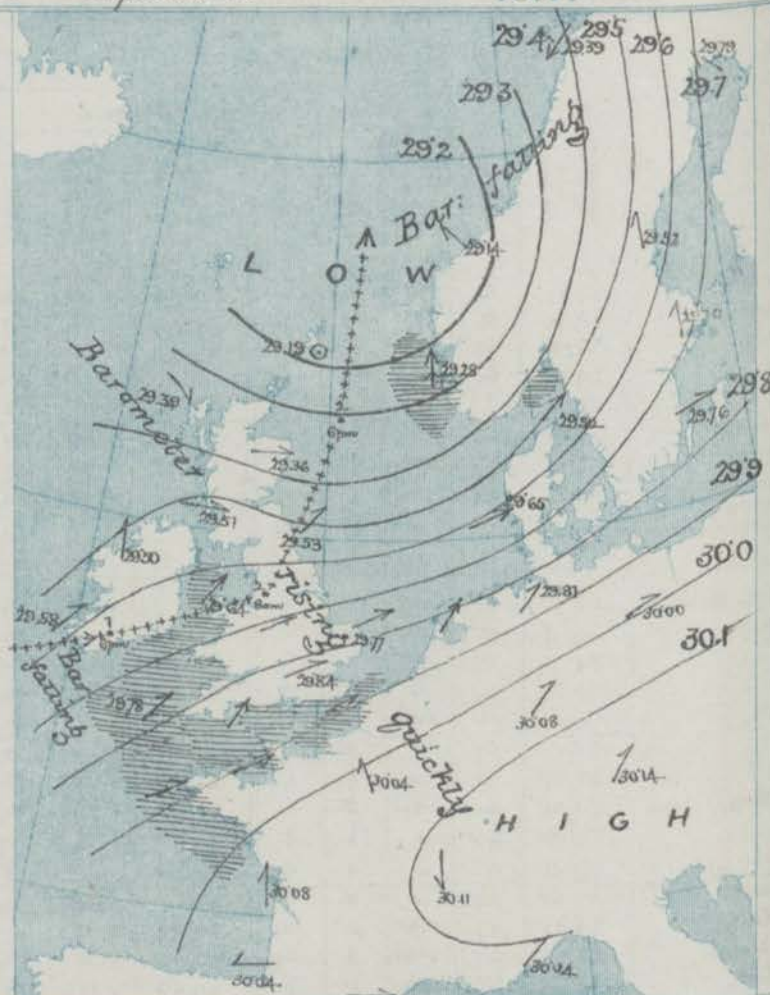
**Sea Disturbance** — where considerable is shown thus

▨ = Rough. ▨ = High.

## MEAN HEIGHT of the BAROMETER

at 8 a.m. for the month of September.  
 During the 10 years 1871—1880.

STATIONS.	MEAN READINGS.
	in.
Sumburgh Head	29.758
Stornoway	29.781
Wick	29.786
Nairn	29.812
Aberdeen	29.815
Leith	29.851
Shields	29.876
York	29.913
Ardrossan	29.858
Donsghadee	29.875
Holyhead	29.903
Liverpool	29.910
Valencia	29.929
Roche's Point	29.923
Pembroke	29.924
Scilly	29.900
Hurst Castle	29.978
Dover	29.955
LONDON	29.956
Oxford	29.943
Cambridge	29.943
Yarmouth	29.928



## 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 September.

STATIONS	TEMPERATURE				RAINFALL (Inches)
	Daily Max	Daily Min.	At 8 a.m.	At 8 p.m.	
Sumburgh Head	55.2	46.2	50.6	49.0	3.46
Stornoway	55.9	45.4	51.0	49.7	4.13
Wick	57.5	45.3	51.6	49.7	2.86
Nairn	59.0	47.0	51.3	48.8	2.78
Aberdeen	58.0	47.1	52.0	49.6	3.22
Leith	62.7	47.8	53.5	51.1	2.47
Shields	60.0	49.0	53.4	51.2	2.58
York	63.2	47.3	53.1	51.2	2.98
Ardrossan	59.9	49.9	53.6	51.0	3.87
Donsghadee	59.5	49.2	53.3	52.1	3.22
Holyhead	61.1	53.1	55.6	53.4	3.35
Liverpool	61.3	51.2	54.7	52.0	3.56
Valencia	61.9	52.0	56.4	53.9	4.87
Roche's Point	62.0	51.7	55.4	53.2	4.39
Pembroke	60.4	53.4	56.3	53.9	3.89
Scilly	61.9	55.2	59.5	56.5	3.69
Hurst Castle	64.4	52.9	57.8	56.3	3.35
Dover	63.1	52.8	58.3	55.4	2.86
LONDON	60.9	49.3	56.4	54.0	2.59
Oxford	63.8	49.0	54.2	52.4	2.91
Cambridge	65.8	48.5	54.5	52.0	2.48
Yarmouth	62.3	50.8	56.3	54.4	3.17

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, 30.10 in. and more, over S Germany and the south east of France. Lowest, about 29.1 in. off the W. of Norway and N. of the Shetland Isles. Gradients somewhat steep, but decreasing. Barometer rising except in extreme west, where slight fall is reported.
TEMPERATURE	Highest, 69° at Nice, 67° at Perpignan, 63° at Stockholm and Marse, 61° at the Helder and 60° in London. Lowest, 53° at Bodø and Storönsby, 54° at Lumburg H <sup>ts</sup> and 55° at Malin H <sup>ts</sup> and Belmullet. It has fallen decidedly over Central Europe during the past 24 hours, but risen slightly over England.
WIND	Moderate W <sup>z</sup> in Scotland, strong gale from S. in south of Norway; moderate NE <sup>z</sup> and E <sup>z</sup> in northwest of Norway. In most other places it is SW <sup>z</sup> , moderate to fresh in force. [The gale of yesterday did not spread to our N. and E. coast, but a strong NW breeze was felt in Scotland as the depression passed N <sup>z</sup> .]
WEATHER	Fair in most places, but not settled - very fine at the eastern and midland stations. Dull in extreme N. and NW, showers in extreme southwest. The rainfall in Scotland has been large - amounting to an inch at Kairn, and was accompanied by thunder locally.]
SEA	Rough on the south coast of Norway, but going down on our coast, but rather rough in the English and Irish Channels smooth in the NW. and E.

## PROBABLE CHANGES IN SYSTEM NOW PREVALENT

The depression of yesterday is passing completely away from our area.

A shallow local depression has appeared off the W. of Ireland, and may produce local showers in many places today, but at present there is no indication of any new large disturbance approaching our coast.

## FORECASTS

for the 24 hours ending at NOON on 4<sup>th</sup> SEPT<sup>r</sup> 1887.

DISTRICTS.	FORECASTS.	DISTRICTS.	FORECASTS.
0 SCOTLAND NORTH	Varying W <sup>z</sup> breezes with improving weather.	6 SCOTLAND WEST	SW <sup>z</sup> and S <sup>z</sup> breezes, moderate; occasional showers.
1 SCOTLAND EAST	----- D <sup>o</sup> ----- D <sup>o</sup> ----- D <sup>o</sup> -----	7 ENGLAND N. W.	----- D <sup>o</sup> ----- D <sup>o</sup> ----- D <sup>o</sup> -----
2 ENGLAND N. E.	Same as N <sup>o</sup> 5	8 ENGLAND S. W.	----- D <sup>o</sup> ----- D <sup>o</sup> ----- D <sup>o</sup> -----
3 ENGLAND EAST	Same as N <sup>o</sup> 5	9 IRELAND NORTH	----- D <sup>o</sup> ----- D <sup>o</sup> ----- D <sup>o</sup> -----
4 MIDLAND COUNTIES	Same as N <sup>o</sup> 5	10 IRELAND SOUTH	----- D <sup>o</sup> ----- D <sup>o</sup> ----- D <sup>o</sup> -----
5 ENGLAND SOUTH	W <sup>z</sup> and SW <sup>z</sup> breezes, perhaps a local shower or two, but 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.
Skudeenæs ...	29.92	58	56	SE 7	7	4	Holyhead ...	29.80	58	55	W 7	5 q	7
Sumburgh Head	29.14	53	53	CNE 4	7	4	Valencia ...	29.57	64	59	W 5	6 q	6
Stornoway ...	29.15	57	56	E 4	0	4	Scilly ...	29.67	61	60	WNW 7	C	6
Aberdeen ...	29.02	59	57	SE 2	C	2	Dungeness ...	29.48	63	59	WNW 9	7 q	7
Shields ...	29.02	69	55	W 8	Cp	3	London ...	29.44	62	57	WSW 6	0 q p	*
Ardrossan ...	29.11	57	55	WNW 5	0	4	Yarmouth ...	29.32	63	59	SW 7	C	6
Malin Head ...	29.22	57	55	NW 4	6	4	Jersey ...	29.73	65	62	W 7	6	6
Mullaghmore ...	29.34	60	55	WNW 5	6	2	Rochefort ...	29.99	70	66	W 7	6	3
Belmullet ...	29.40	57	55	NW 5	0 p	*							

## 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 30.1 ins: and upwards, were situated over Central Russia, relatively high readings were reported over the whole of eastern and southeastern Europe as well as over Spain. The lowest readings 28.9 ins: and less, were found in the centre of a deep depression lying over the north of England, and steep gradients were reported over the west and south of our Islands and the north of France. In the regions covered by the high pressure systems the wind was light and variable, but in the west of the United Kingdom strong NW breezes were reported and over the Channel and Bay of Biscay there was a hard gale from SW. or W., while on the eastern shores of the North Sea the wind was moderate to strong from the SE<sup>th</sup>. Rain was falling in the north and east of our Islands, and showers in most other parts of NW Europe, but in the more eastern and southern countries the weather was mostly fair. Temperature had changed little and irregularly, and readings ranged from 45° and upwards at many of the Spanish, Algerian, and Italian stations to 55° or less over Central Russia and the north of Scotland and some parts of Scandinavia. The highest individual readings were 86° at Safa and Biskra, 81° at La Jolla, 80° at Malta, 79° at Algiers, and 78° at Oran, Barcelona and Cagliari; the lowest were 51° at Bodo, 53° at Sumburgh H., 54° at Christiansund and Harrow in Friesland, and 55° at Haparanda, Norr, and several of our own N. stations.

In the course of the day the depression over England travelled northwards to the North Sea, and finally N along the east coast of Scotland. As the centre passed off the gale in the south gradually subsided, but the weather remained squally and showery in many parts of the Kingdom.

### EXPLANATION OF COLUMNS GIVEN ON PAGE 1.

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

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

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

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



# DAILY WEATHER REPORT.

for Sunday 4<sup>th</sup> September 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 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.	
<b>SCANDINAVIA.</b>																			
Haparanda ..	29.60	57	SSE	3	o		29.41	-.38	56	51	+ 2	SW	4	c	*		57	43	0.24
Hernösand ..	29.49	57	SSW	6	bc		29.60	+ .08	59	53	+ 2	WSW	6	b	*		63	52	—
Stockholm ..	29.82	58	SSW	4	b		29.93	+ .23	60	55	— 3	SW	4	b	*		72	55	—
Wisby ..	29.87	62	W	4	b		29.98	+ .22	63	58	0	SW	4	b	*		70	55	—
Bodö ..	29.24	50	E	2	c		29.40	+ .01	53	52	0	WSW	1	o	1		59	?	0.58
Christiansund ..	29.33	57	WSW	6	r		29.60	+ .45	53	51	— 4	WSW	6	m	4		59	52	0.28
Skudesnaes ..	29.61	57	WSW	7	c		29.70	+ .42	56	54	— 1	S	5	r	5		57	55	0.12
Christiania Fjord (Ferder) ..	29.64	61	SW	9	b		29.79	+ .38	59	57	0	SSW	5	bc	4		61	57	—
Skagen (The Scaw)	29.79	56	W	1	b		29.84	+ .02	55	54	— 4	SW	2	c	1		64	54	—
Fanö ..	29.89	60	SW	4	b		29.82	+ .17	61	58	— 1	SSE	4	c	*		66	59	0.04
<b>BRITISH ISLANDS.</b>																			
Sumburgh Head	29.48	51	NNE	1	o		29.63	+ .44	51	49	— 3	NE	1	o	2		58	45	0.04
Stornoway ..	29.57	55	E	3	c		29.55	+ .16	55	54	+ 2	SE	5	o	4		57	46	0.07
Wick ..	29.51	53	NW	2	r		29.58	+ .30	53	52	— 1	SE	2	c	1		57	40	0.14
Nairn ..	29.56	56	WNW	2	bc		29.56	+ .20	52	50	— 3	SSE	1	o	1		62	44	—
Aberdeen ..	29.56	60	NW	1	c		29.55	+ .19	56	55	— 1	N	1	om	1		67	57	0.01
Leith ..	29.64	55	SW	1	o		29.50	+ .04	56	55	— 2	Z	0	c	*		67	52	0.13
Shields ..	29.63	58	SW	3	o		29.51	— .02	55	54	— 3	SSW	2	o	2		65	53	0.05
Spurn Head ..	29.68	61	S	4	c		29.58	— .10	58	55	— 1	SSW	3	bc	3		67	51	0.09
York ..	29.71	60	SSW	1	c		29.56	— .09	57	54	0	SW	1	bc	*		67	53	0.07
Loughborough	29.74	59	SSW	2	bc		29.61	— .12	57	55	— 1	WSW	3	b	*		68	53	0.24
Ardrossan ..	29.55	59	SSW	2	o		29.48	— .03	56	54	— 1	E	1	cm	1		61	50	0.20
Malin Head ..	29.52	56	ENE	3	o		29.49	00	54	53	— 1	ENE	2	op	2		59	52	0.16
Mullaghmore ..	29.52	60	W	2	bc		29.52	+ .02	55	54	— 1	SSW	2	op	2		64	52	0.11
Belmullet ..	29.55	57	NNE	1	b		29.55	+ .06	56	54	+ 1	S	1	o	*		62	49	—
Donaghadee ..	29.55	59	S	2	c		29.52	+ .05	52	52	— 4	WSW	2	o	0		65	50	0.07
Barrow-in-Furness	29.63	60	SE	4	bc		29.57	— .08	57	55	— 2	S	4	cp	*		63	56	0.08
Liverpool (Bidston)	29.65	58	S	2	c		29.55	— .11	58	54	+ 1	SW	2	o	2		65	53	0.21
Holyhead ..	29.61	59	S	4	c		29.56	— .08	56	55	— 2	SW	3	c	3		63	53	0.18
Parsonstown ..	29.86	56	Z	0	r		29.57	00	55	54	— 3	Z	0	o	*		66	48	0.15
Valencia ..	29.52	59	WSW	3	c		29.62	+ .04	56	55	— 4	W	3	omgjp	3		63	53	0.44
Roche's Point ..	29.57	61	W	4	bc		29.62	00	57	55	— 3	W	3	c	3		63	49	1.08
Pembroke ..	29.62	59	SSW	5	bc		29.62	— .08	58	56	— 1	W	4	bc	5		62	55	0.10
Seilly ..	29.69	58	WSW	6	o		29.71	— .07	59	58	+ 1	WSW	4	o	4		63	55	0.19
Prawle Point ..	29.77	57	SSW	6	r		29.74	— .03	57	56	— 1	SSW	5	og	6		61	54	0.12
Jersey ..	29.88	65	SW	4	o		29.80	— .09	63	59	+ 1	WSW	5	bc	5		69	59	0.02
Hurst Castle ..	29.80	62	SW	5	c		29.74	— .11	60	58	— 1	WSW	6	c	5		64	56	0.48
Dungeness ..	29.87	60	WSW	4	b		29.72	— .11	61	58	0	W	5	bc	4		66	58	0.20
London ..	29.83	61	SSW	4	c		29.70	— .14	59	56	— 1	SW	4	c	*		67	55	0.25
Oxford ..	29.77	59	SSW	2	r		29.67	— .13	59	55	+ 1	SW	3	b	*		64	53	0.13
Cambridge ..	29.79	62	S	3	bc		29.66	— .13	60	57	0	S	3	o	*		70	54	0.23
Yarmouth ..	29.80	62	WSW	1	bc		29.64	— .15	60	57	+ 1	WSW	4	bcg	4		67	55	0.12
Cuxhaven ..	29.93	59	SW	1	b		29.85	+ .04	56	54	— 3	S	2	c	*		65	55	—
Berlin ..	30.07	66	W	1	bc		29.95	— .05	62	58	— 2	SE	1	c	*		70	57	—
Wiesbaden ..	*	*	*	*	*		29.94	— .14	58	57	— 2	Z	0	o	*		72	54	0.24
Munich ..	30.07	62	Z	0	r		30.03	— .11	58	58	— 4	W	2	bc	*		70	54	0.04
<b>GERMANY.</b>																			
The Helder ..	29.90	59	S	1	b		29.72	— .07	58	56	— 4	SSE	1	r	1		66	55	0.12
Brussels ..	*	*	*	*	*		29.82	— .30	61	56	+ 2	SSW	4	c	*		69	57	0.04
Cape Gris Nez ..	29.97	63	SW	4	bc		29.74	— .13	61	59	+ 1	SW	7	r	5		66	59	0.08
Paris ..	29.97	64	S	1	bc		29.93	— .11	57	54	+ 1	SW	5	bc	*		72	53	—
Brest ..	29.89	60	ESE	4	o		29.86	— .07	59	58	0	W	4	o	5		73	55	0.12
Lorient ..	29.93	60	W	7	c		29.87	— .05	59	57	— 2	SW	3	o	5		66	55	0.16
Rocheport ..	30.04	67	WNW	4	c		30.04	— .04	64	60	+ 2	WSW	5	o	2		73	59	—
Belfort ..	30.04	67	SW	1	o		30.02	— .09	64	?	+ 2	SW	1	o	*		69	59	0.35
Lyons ..	*	63	?	1	o		30.00	— .11	65	61	+ 6	W	3	o	*		66	59	0.04
Nice ..	30.04	72	W	1	bc		30.06	+ .02	68	61	— 1	E	1	b	0		82	64	—
Perpignan ..	29.97	71	E	1	c		30.01	— .04	67	64	0	SW	3	o	*		75	63	—
Biarritz ..	29.99	68	NNE	4	o		30.03	— .01	63	61	+ 3	S	3	o	2		70	60	0.12
<b>FRANCE &amp; NETHERLANDS.</b>																			
Corunna ..	*	*	*	*	*		30.08	— .17	64	63	+ 1	SSE	5	o	5		72	55	—
Lisbon ..	30.03	64	NNW	7	b		30.11	+ .13	65	58	+ 1	N	7	b	4		72	63	—

For Explanation of Columns, see p. 4.



# WEATHER CHARTS

for 8 a.m. on

Sunday 4<sup>th</sup> September

1887.

## BAROMETER, WIND & SEA.

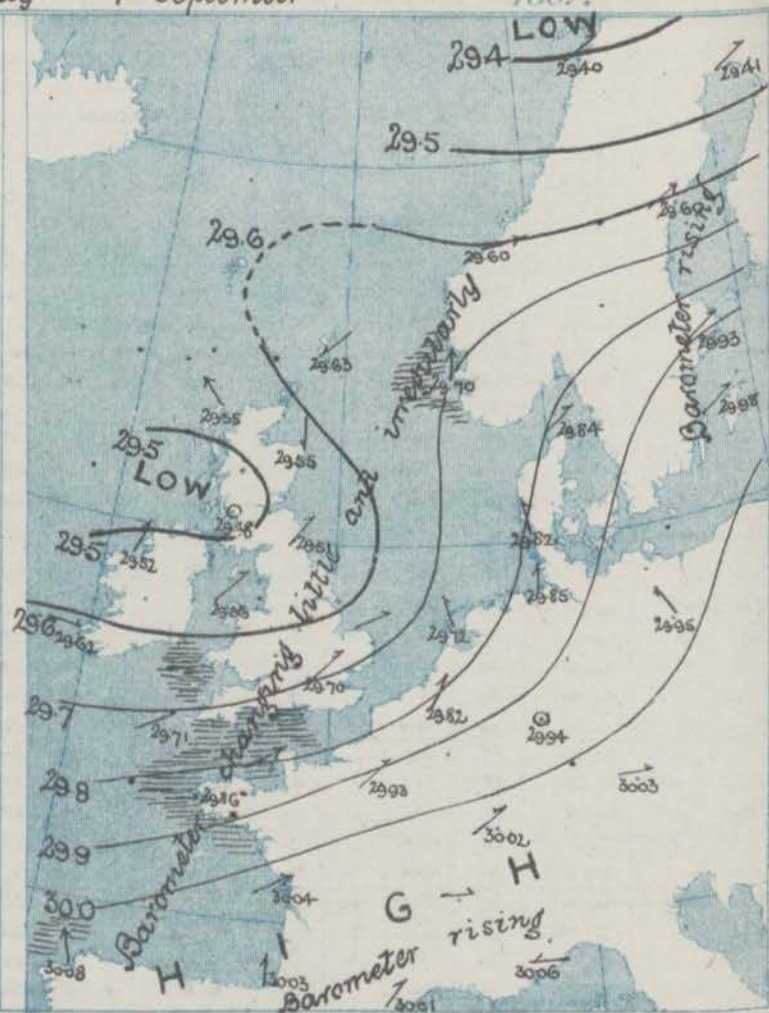
(Explanation of Map)

**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 September.  
 During the 10 Years 1871—1880.

STATIONS.	MEAN READING.
Sumburgh Head	29.758
Stornoway	29.781
Wick	29.786
Nairn	29.812
Aberdeen	29.815
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Donaghadee	29.875
Holyhead	29.903
Liverpool	29.910
Valencia	29.929
Roche's Point	29.923
Pembroke	29.924
Scilly	29.960
Hurst Castle	29.978
Dover	29.955
LONDON	29.956
Oxford	29.943
Cambridge	29.943
Yarmouth	29.928



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

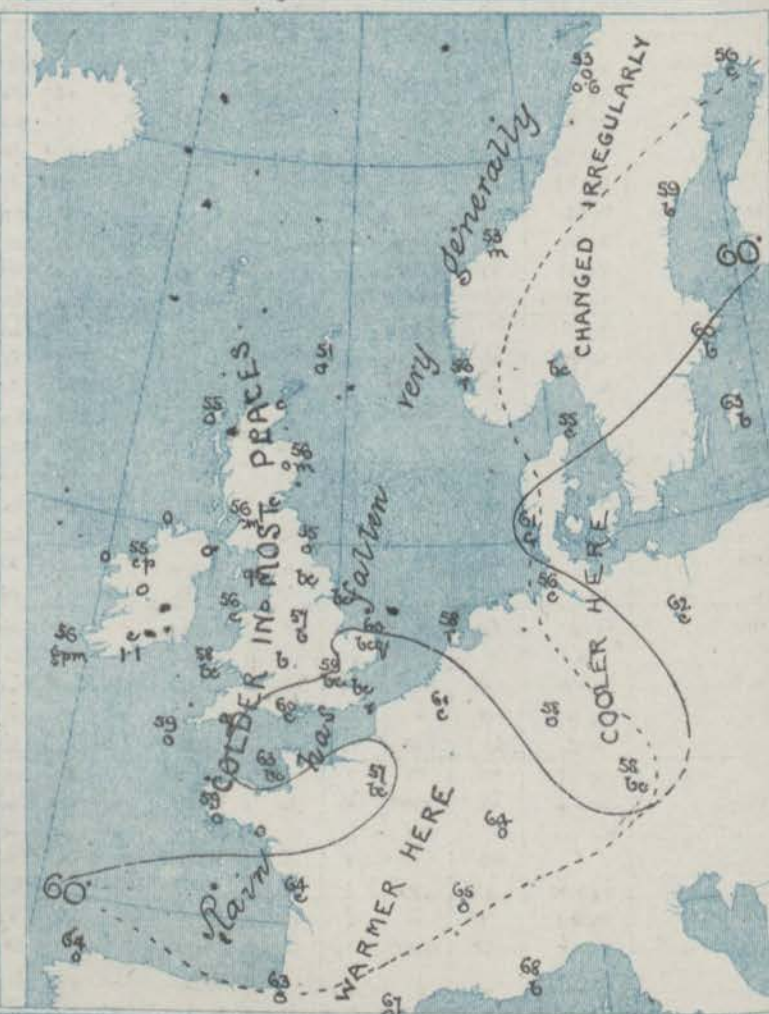
**Temperature** — Isotherms are drawn for each 10° changes since previous morning are stated in words.  
**Weather** — is shown by Letters of the Beaufort Scale.  
**Rainfall** — A dotted line separates the districts in which rain has fallen from those where there has been none. Falls of 0.5 in. or more,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

## MEANS OF TEMPERATURE IN SHADE. AND RAINFALL.

for the month of September.

STATIONS	TEMPERATURE				RAINFALL (Inches)
	Daily Max.	Daily Min.	Avg. Drs.	Avg. Wet.	
Sumburgh Head	56.2	46.2	50.6	49.0	3.46
Stornoway	55.9	45.4	51.0	49.7	4.13
Wick	57.5	45.3	51.6	49.7	2.68
Nairn	59.0	47.0	51.3	48.8	2.78
Aberdeen	58.0	47.1	52.0	49.8	3.22
Leith	62.7	47.8	53.5	51.1	2.47
Shields	60.0	49.0	53.4	51.2	2.58
York	63.2	47.8	58.1	51.2	2.98
Ardrossan	59.9	49.9	53.6	51.0	3.87
Donaghadee	59.5	49.2	53.8	52.1	3.22
Holyhead	61.1	53.1	55.6	53.4	3.35
Liverpool	61.3	51.2	54.7	52.0	3.56
Valencia	61.9	52.0	56.4	53.9	4.87
Roche's Point	62.0	61.7	55.4	53.2	4.89
Pembroke	60.4	53.4	56.3	53.9	3.80
Scilly	61.9	55.2	58.5	56.5	3.09
Hurst Castle	64.4	52.9	57.8	56.3	3.35
Dover	63.1	52.8	58.3	55.4	2.86
LONDON	66.0	49.3	56.4	54.0	2.59
Oxford	63.8	49.0	54.2	52.4	2.91
Cambridge	65.8	48.5	54.5	52.9	2.48
Yarmouth	62.3	50.8	56.3	54.4	3.17

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, in the neighbourhood of Lisbon; relatively high 30.0 in. and upwards over the whole of Central and S. Europe; lowest, 29.4 in. and less in a depression lying over the north of Scandinavia; low 29.5 in. and less in another lying over the W. and S. of Scotland and N. of Ireland.
TEMPERATURE	Highest, 68° at Nice, 67° at Perpignan, 65° at Lyons and Dijon, 64° at Belfast and Rochfort, and 63° at Usterby, Jersey, and Biarritz. Lowest, 51° at Lumbrough H <sup>d</sup> , 52° at Kairi and Donaghadee, and 53° at Bodø, Christiansund, and Utsik.
WIND	SW over the greater part of Ireland, England and France; strong in force at some of the Channel stations. S or SE on the eastern shores of the North Sea and also in Scotland; light or moderate in force generally.
WEATHER	Varying greatly in different localities, but changeable and showery in most districts. [Showers fell generally yesterday, the largest amount being 1.1 in. at Rocherpoint.]
SEA	Rough or rather so over the Channel and Bay of Biscay, but moderate to smooth elsewhere.

### PROBABLE CHANGES IN SYSTEM NOW PREVALENT

The barometer is now rising over Scandinavia and the north of our Islands, but falling elsewhere. The depression over the south of Scotland is of no great depth, but it is apparently extending eastwards.

## FORECASTS

For the 24 hours ending at NOON on 5<sup>th</sup> September 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	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 ...	29.43	56	54	SSW 8	r	6	Holyhead ...	29.64	62	59	SSW 5	bcq	5
Sumburgh Head ...	29.36	55	54	NNE 1	o	3	Valencia ...	29.57	62	58	WSW 4	cp	4
Stornoway ...	29.52	57	55	E 4	o	4	Scilly ...	29.72	59	59	SW 5	p	5
Aberdeen ...	29.49	64	55	W 4	c	1	Dungeness ...	29.89	64	60	WSW 5	c	4
Shields ...	29.62	63	55	SW 4	c	2	London ...	29.82	66	59	SW 4	bc	*
Ardrossan ...	29.57	60	57	SSW 3	c	2	Yarmouth ...	29.82	66	57	WSW 4	bc	3
Malin Head ...	29.53	57	56	ENE 3	o	2	Jersey ...	29.91	68	61	SW 4	c	4
Mullaghmore ...	29.57	63	59	W 3	bv	2	Rocheport ...	30.06	73	64	NW 4	c	2
Belmullet ...	29.53	62	57	NNE 1	b	*							

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

The reports for yesterday morning showed that at that time pressure varied from rather above 30.1 ins. over Southern Russia and the Black Sea and from little above 30.0 ins. over Central, Southern and Southwestern Europe to rather below 29.2 ins. off the west of Norway to which position the depression which lay over the NW. of England on the 2<sup>nd</sup> had advanced. The SW<sup>2</sup> gales had lulled at the English stations, but a S<sup>1</sup> gale had set in on the south coast of Norway. Over the remainder of W and NW Europe the wind was mainly SW<sup>1</sup>, and blew strongly in many places, but in Scotland it had veered to W and was light. Showery unsettled weather was still reported in most places, but the rain was less heavy than on Friday, and over South-Eastern and Central Europe the weather was fair. Temperature ranged from rather above 80° over Algeria and some part of the Mediterranean to about 50° over the extreme north of Europe. The highest individual values were 82° at Biskia (Algeria) and at Palma, 80° at Malta, 76° at Trieste, Livorno and Palermo, 74° at Barcelona, 73° at Constantinople, and 72° at Lirina, Pescara, and Naples, the lowest were 48° at Uleaborg, 53° at Kuopio, Bodö and Stornoway, and 54° at St Petersburg.

Later in the day the depression in the NW. travelled away, but showery weather was still prevalent, with light intervals and thunderstorms again occurred in the south of France.

### 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 5 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 5<sup>th</sup> September 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 ..	29.56	55	SW	2	C	29.60	+1.9	56	54	0	S	2	C	*	63	51	-	
Hernösand ..	29.70	52	Z	0	C	29.56	-0.4	54	52	-5	NE	2	O	*	70	52	-	
Stockholm ...	29.79	59	SE	2	O	29.57	-3.6	57	56	-3	Z	0	O	*	68	62	0.51	
Wisby ...	29.70	58	ESE	2	T	29.62	-3.6	59	56	-4	W	4	B	*	73	55	0.08	
Bodö ...	29.66	50	W	2	O	29.62	+2.2	49	46	-4	Z	0	B	0	3	46	0.04	
Christiansund...	29.63	53	E	2	C	29.40	-2.0	53	51	0	ESE	2	C	3	55	52	-	
Skudesnaes ...	29.50	56	SSE	2	O	29.35	-3.5	57	55	+1	SE	4	T	4	57	55	-	
Christiania Fjord (Furder)	29.64	59	Z	0	T	29.43	-3.6	57	56	-2	W	3	bc	3	61	55	1.10	
Skagen (The Scaw)	29.59	58	S	1	O	29.45	-3.9	57	55	+2	SW	1	C	1	61	54	0.12	
Fanö ...	29.62	59	SW	4	B	29.45	-3.7	57	55	-4	SW	3	C	*	66	55	0.16	
BRITISH ISLANDS.																		
Sumburgh Head	29.58	52	NE	2	O	29.36	-2.7	51	55	0	NNE	3	O	3	55	46	0.03	
Stornoway ...	29.50	52	E	5	O	29.39	-1.6	52	57	-3	E	5	O	5	58	49	0.10	
Wick ...	29.54	54	E	3	O	29.37	-2.1	52	50	-1	N	1	O	0	55	49	0.01	
Nairn ...	29.46	55	E	3	T	29.38	-1.8	51	51	-1	E	1	2	2	55	50	1.03	
Aberdeen...	29.46	56	ESE	1	Op	29.37	-1.8	55	54	-1	N	2	om	1	60	53	0.04	
Leith ...	29.45	60	SE	1	O	29.36	-1.4	54	52	-2	S	1	cm	*	64	48	0.22	
Shields ...	29.45	61	WSE	3	C	29.36	-1.5	56	53	+1	Z	0	m	2	62	48	0.12	
Spurn Head ...	29.49	63	W	3	C	29.45	-1.3	56	54	-2	SW	4	C	2	60	53	0.06	
York ...	29.53	60	W	1	O	29.43	-1.3	54	53	-3	SW	1	O	*	64	50	0.02	
Loughborough	29.58	61	SW	2	O	29.50	-1.1	55	53	-2	SW	3	O	*	67	51	0.09	
Ardrossan ...	29.40	57	Z	0	C	29.34	-1.4	53	52	-3	ESE	1	om	1	62	48	0.03	
Malin Head ...	29.45	57	NW	1	B	29.25	-2.4	52	51	-2	S	3	og	2	60	50	0.08	
Mullaghmore ...	29.50	57	SW	4	bc p	29.23	-2.9	53	51	-2	ESE	5	or	3	62	50	0.14	
Belmullet ...	29.52	57	ESE	1	bc	29.11	-4.4	57	56	+1	SE	6	T	*	59	56	0.58	
Donaghadee ...	29.48	56	SW	2	C	29.34	-1.8	52	52	0	S	2	og	0	63	45	0.26	
Barrow-in-Furness	29.51	58	WSE	3	O	29.40	-1.1	56	54	-1	S	4	O	*	60	55	0.20	
Liverpool (Bidston)	29.52	59	SW	2	C	29.42	-1.3	54	53	-4	S	1	T	2	63	52	0.22	
Holyhead ...	29.53	57	SSW	4	om	29.38	-1.8	55	54	-1	SSE	1	Tm	2	61	53	0.36	
Parsonstown ...	29.55	55	SW	1	C	29.24	-3.3	53	53	-2	S	3	T	*	61	49	0.30	
Valencia ...	29.61	58	W	3	O	29.32	-3.0	60	58	+4	WNW	6	ogm	6	63	53	0.31	
Roche's Point...	29.59	57	W	4	T	29.34	-2.8	62	60	+5	WSE	5	cp	4	62	55	0.30	
Pembroke ...	29.59	58	WSE	5	C	29.37	-2.5	60	60	+2	SW	6	dm	5	61	55	0.12	
Scilly ...	29.63	61	S	2	O	29.56	-1.5	61	61	+2	W	7	op	6	65	56	0.05	
Prawle Point ...	29.68	57	SW	4	C	29.56	-1.8	59	59	+2	SSW	7	TJ	7	62	54	0.20	
Jersey ...	29.76	61	WSE	3	og p	29.71	-0.9	61	60	-2	WSE	5	og p	4	65	59	0.17	
Hurst Castle ...	29.68	60	WSE	7	cp p	29.61	-1.3	59	58	-1	WSE	5	odm	5	65	55	0.41	
Dungeness ...	29.68	61	WSE	5	O	29.60	-1.2	58	56	-3	W	5	O	4	66	56	0.77	
London ...	29.66	61	SSW	3	O	29.59	-1.1	56	55	-3	WSE	2	O	*	68	53	0.03	
Oxford ...	29.63	57	SSW	2	T	29.54	-1.3	56	54	-3	SW	2	T	*	67	52	0.30	
Cambridge ...	29.62	57	S	2	O	29.54	-1.2	56	54	-4	SW	1	O	*	66	50	0.12	
Yarmouth ...	29.62	64	SW	2	cp	29.50	-1.4	56	54	-4	WNW	3	C	3	67	51	0.08	
Cuxhaven ...	29.74	59	SW	4	T	29.56	-2.9	57	56	+1	SW	3	C	*	64	55	0.42	
Berlin ...	29.82	65	SW	1	B	29.67	-2.8	62	59	0	SSW	3	O	*	73	59	-	
Wiesbaden ...	*	*	*	*	*	29.75	-1.9	61	57	+3	SW	4	O	*	73	57	0.35	
Munich ...	30.03	59	SE	1	B	29.93	-0.8	62	59	+4	SW	5	C	*	72	55	0.47	
GERMANY.																		
The Helder ...	29.66	62	SW	4	C	29.47	-2.5	59	57	+1	SSE	3	O	3	64	57	0.83	
Brussels ...	*	*	*	*	*	29.58	-2.4	58	57	-3	W	4	T	*	68	55	0.28	
Cape Gris Nez...	29.73	60	WNW	7	O	29.58	-1.6	59	57	-2	WNW	8	C	6	64	57	0.63	
Paris ...	29.87	59	SW	4	O	29.76	-1.7	62	60	+5	SW	4	O	*	68	57	0.04	
Brest ...	29.76	59	S	5	T	29.74	-1.2	61	58	+2	W	8	f	5	73	55	0.12	
Lorient ...	29.83	63	SSW	4	O	29.82	-0.7	63	61	+4	W	7	O	5	66	57	0.04	
Rochefort ...	29.99	64	WSW	7	T	30.00	-0.4	66	64	+2	WNW	7	T	2	68	63	0.28	
Belfort ...	29.98	66	SW	1	T	29.92	-1.0	64	60	0	SW	4	O	*	69	60	0.08	
Lyons ...	29.97	65	SE	1	O	30.01	+0.1	62	58	-3	SSE	1	C	*	79	61	0.28	
Nice ...	30.02	58	E	1	B	29.89	-1.7	70	63	+2	SSE	1	O	0	84	55	1.10	
Perpignan ...	30.01	73	N	1	E	30.08	+0.7	70	64	+3	Z	0	C	*	80	61	-	
Barritz ...	30.09	69	WSE	4	bc	30.12	+0.9	69	64	+6	SW	4	O	2	72	61	-	
Corunna ...	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
Lisbon ...	30.12	66	WNW	7	B	30.11	0.0	65	62	0	N	7	bc	2	75	63	-	
PENIN- SULA.																		

For Explanation of Columns, see p. 4.

† Received too late for insertion in Charts.



# WEATHER CHARTS

for 8 a.m. on

Monday, 5<sup>th</sup> September.

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.

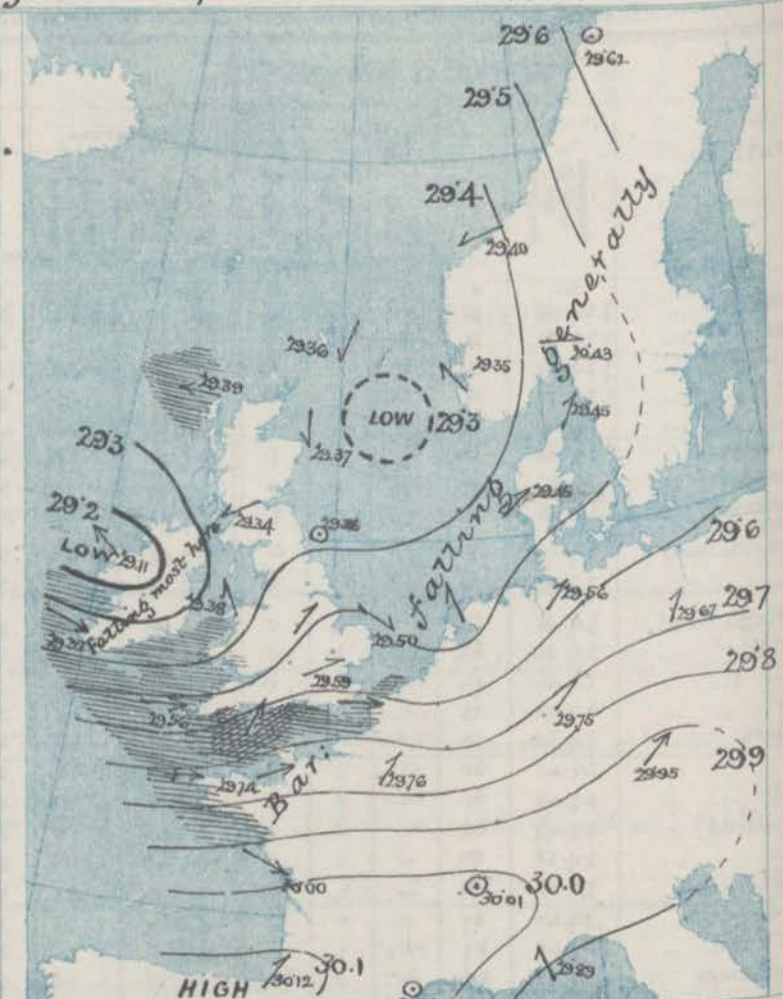
**Sea Disturbance** — where considerable is shown thus

— = Rough. — = High.

## MEAN HEIGHT of the BAROMETER

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

STATIONS.	MEAN READING.
Sumhurgh Head	29.758
Stornoway	29.781
Wick	29.796
Nairn	29.812
Aberdeen	29.815
Leith	29.851
Shields	29.876
York	29.913
Ardrossan	29.858
Donaghadee	29.875
Holyhead	29.903
Liverpool	29.910
Valencia	29.929
Roche's Point	29.923
Pembroke	29.924
Scilly	29.960
Hurst Castle	29.978
Dover	29.955
LONDON	29.956
Oxford	29.943
Cambridge	29.943
Yarmouth	29.928



## 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.

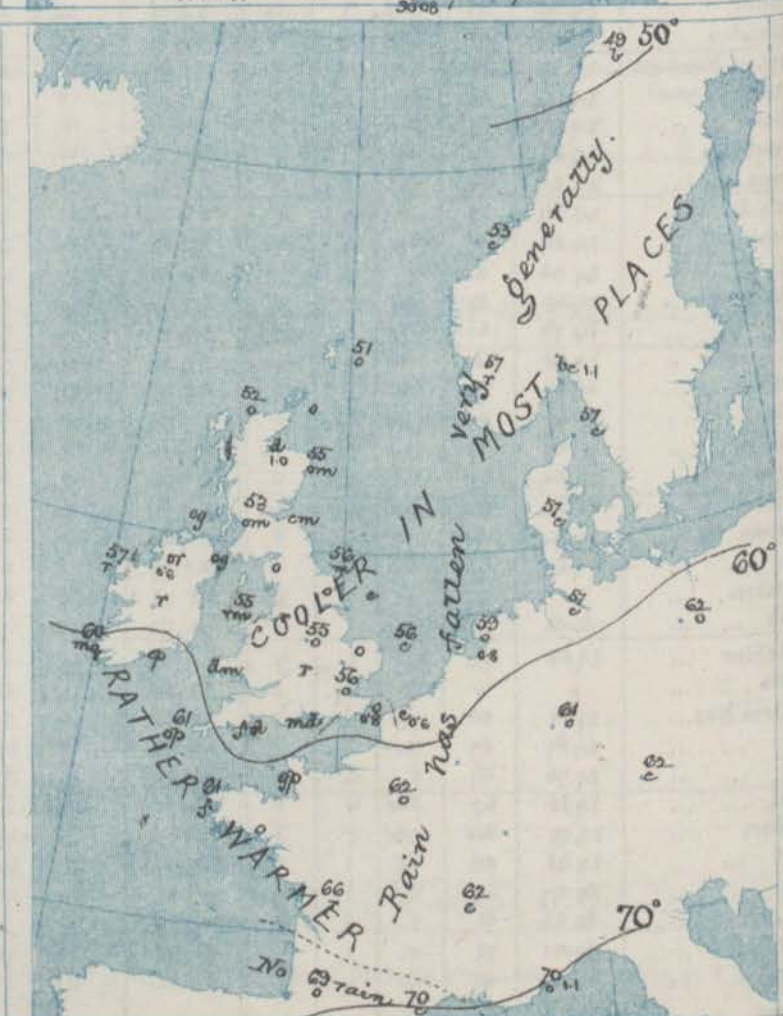
**Rainfall** — A dotted line separates the districts in which rain has fallen from those where there has been none. Falls of 0.5 in. or more, are quoted in figures.

## MEANS OF TEMPERATURE IN SHADE. AND RAINFALL.

for the month of September.

STATIONS	TEMPERATURE.				RAINFALL. (Inches)
	Daily Max.	Daily Min.	At 8 a.m.	At 8 p.m.	
Sumhurgh Head	55.2	46.2	60.6	49.0	3.46
Stornoway	55.9	45.4	51.0	49.7	4.13
Wick	57.5	45.3	51.6	49.7	2.66
Nairn	59.0	47.0	51.3	48.8	2.73
Aberdeen	58.0	47.1	52.0	49.6	3.22
Leith	62.7	47.8	53.5	51.1	2.47
Shields	60.0	49.0	53.4	51.2	2.58
York	63.2	47.3	53.1	51.2	2.98
Ardrossan	59.9	49.9	53.6	51.0	3.87
Donaghadee	59.5	49.2	53.3	52.1	3.22
Holyhead	61.1	53.1	55.6	53.4	3.35
Liverpool	61.3	51.2	54.7	52.0	3.56
Valencia	61.9	52.0	56.4	53.9	4.87
Roche's Point	62.0	51.7	55.4	53.2	4.39
Pembroke	60.4	53.4	56.3	53.9	3.89
Scilly	61.9	55.2	58.5	56.5	3.69
Hurst Castle	64.4	52.9	57.8	56.3	3.35
Dover	63.1	52.8	58.3	55.4	2.86
LONDON	66.9	49.3	56.4	54.0	2.59
Oxford	63.8	49.0	54.2	52.4	2.91
Cambridge	65.8	48.5	54.5	52.9	2.43
Yarmouth	62.3	50.8	56.3	54.4	3.17

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 in: and upwards, over Spain and the southwest of France.  
Lowest, 29.2 in: and less, in a depression lying over the west of Ireland; low (about 29.3 in:) in a shallow disturbance lying between the Irish and Norwegian coasts.

## TEMPERATURE

Highest, 70° at Kils and Loughmoe, 69° at Binnity, 67° at Lyons, 66° at Rochefort, and 65° at Dieppe.  
Lowest, 49° at Ross, 51° at Lumburg H<sup>2</sup>, and Nain, and 52° at Stromway, Wick, Malin Head and Donaghadee.

## WIND

Strong from W. over the Bay of Biscay and our southwest coast, with a gale at Brest.  
Fresh from SW. over the eastern parts of the Channel, light from the same quarter in Germany, Denmark.  
Light from E. or NE. in Scotland, fresh from SE. in the north of Ireland.

## WEATHER

Cloudy or overcast generally with rain and mist in many parts of our Islands, as well as in the coast of France.  
Rain fell yesterday in most places, the largest amounts being 1.0 in: at Nain, 0.8 in: at Dungannon, 0.6 in: at Balmalcolm.

## SEA

High at Howle Point and rough in the S. and SW. generally, but moderate to smooth elsewhere.

## PROBABLE CHANGES IN SYSTEM NOW PREVALENT

The depression off the west of Ireland seems likely to move eastward and occasion a further increase of wind on our south and southwest coasts, with equally rainy weather. With the present irregular distribution of pressure, however, the progress of the disturbance will probably be somewhat slow.

## FORECASTS

for the 24 hours ending at NOON on 6<sup>th</sup> Sept., 1887.

### DISTRICTS.

### FORECASTS.

### DISTRICTS.

### FORECASTS.

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

E<sup>2</sup> and NE<sup>2</sup> winds, moderate; dull, some rain.  
Variable or E<sup>2</sup> breezes dull, some rain.  
S<sup>2</sup> winds, increasing in force; squally, rainy.  
-----D°-----D°-----D°-----  
-----D°-----D°-----D°-----  
SW<sup>2</sup> to W<sup>2</sup> strong winds and gales; squally and rainy to fair.

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

S<sup>2</sup> winds, shifting to W. or NW.; dull and rainy at first, some improvement later.  
-----D°-----D°-----D°-----  
Same as No 5  
Same as No 6  
W<sup>2</sup> and NW<sup>2</sup> strong winds or gales; squally showery.  
S. cone has been hoisted this morning in districts 5, 8, 10, and part of 7.

### WARNINGS

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



# YESTERDAY'S 2 P.M. REPORTS.

	Bar.	Dry.	Wet.	Wind.	Wea.	Sea.		Bar.	Dry.	Wet.	Wind.	Wea.	Sea.
Skudesnaes ...	29.62	59	56	SE 4	r	4	Holyhead ...	29.56	60	57	SW 4	bc	4
Sumburgh Head ...	29.51	55	54	E 5	c	4	Valencia ...						
Stornoway ...							Scilly ...						
Aberdeen ...							Dungeness ...	29.73	63	60	W 5	c	4
Shields ...							London ...						
Ardrossan ...							Yarmouth ...						
Malin Head ...	29.47	57	55	N 1	0	1	Jersey ...	29.80	64	59	W 4	c	4
Mullaghmore ...							Rochefort ...	30.03	61	60	W 5	r	2
Belmullet ...	29.53	56	54	W 2	r	*							

## 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 Western Russia and the Black Sea and in Portugal and from 30.0 ins. and more over the whole of Southern, Central, and Southwestern Europe, to rather below 29.5 ins. over Northern Europe as well as over some parts of the British Isles. Thus, while S. to W. winds, and changeable, showery weather prevailed over nearly the whole of Northern and Western Europe, with thunderstorms in some localities, E. and SE. breezes were reported in the northern parts of Scotland and the Shetland Isles, where the weather was less showery than in other places, but the sky had an unsettled appearance. Temperature was inclined to decrease except over Spain, and varied from between 80° and 85° over several parts of Algeria and Spain, and from between 70° and 78° over many parts of the Mediterranean to very little above 50° in the extreme N. and NW. The highest individual readings were 83° at Algiers, 84° at Biskra, 83° at San Fernando, 81° at Palma, 78° at Livourne, 77° at Brindisi, and 75° at Barcelona, Legna, and Trieste; the lowest 51° at Sumburgh Hd., 53° at Bodo, Christiansund and Wick and 55° at Kuopio and Rye and at several other stations over Northwestern Europe.

Later in the day rain became still more general over the British Isles, and the appearance was very unsettled, but the winds were not of any great force.

### SUMMARY OF CHANGES IN THE WEATHER OVER THE BRITISH ISLES AND THEIR NEIGHBOURHOOD, FROM AUGUST 28<sup>th</sup> TO SEPT. 3<sup>rd</sup> 1887.

Throughout the whole of this week a cyclonic distribution of a SW. type has prevailed over the whole of NW. Europe. At first the type was simple, the winds S. and the rainfall slight, but as depressions began to advance over the country the type became more complex, the winds varied to SW. and W. in the south, while they shifted to E. in the north, and large amounts of rain occurred over the Kingdom — falls of more than an inch in 24 hours being reported several times.

Two important depressions advanced completely over the United Kingdom.

The first reached our NW. coast on the evening of the 30<sup>th</sup>, and as it advanced, spread out greatly, so that the gradients were steep in the south only, and the gales (from W) experienced were confined to the southern parts of the Kingdom.

The second was much deeper and larger; it reached the SW. of Ireland on the afternoon of Sept. 1<sup>st</sup> whence it moved NE. to Lancashire by next morning and to near the Firth of Forth on the following morning. In this case, too, the gradients were steepest in the SW. S. and SE. and in these regions SW. to W. gales of considerable severity were experienced, while over north and north east coasts escaped.

Some other very shallow disturbances occurred later, but these brought only rain and local thunderstorms.

### 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 6<sup>th</sup> September

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.	
			Dirac.	Force. (0 to 12.)		Reading at 32° F. and Sea Level.	Difference from 8 a.m. yesterday.	Dry.	Wet.	Difference from 8 a.m. yesterday.	Dirac.	Force. (0 to 12.)			Max.	Min.		
SCANDINAVIA.																		
Haparanda ..	29.47	54	E	2	r	29.22	-.38	55	55	-1	SSE	2	r	*	57	48	0.43	
Hernösand ...	29.39	54	Z	0	t	29.26	-.30	55	54	+1	Z	0	O	*	57	48	0.16	
Stockholm ...	29.36	57	E	2	t	29.31	-.26	55	54	-2	SW	2	r	*	68	54	0.43	
Wisby ...	29.36	59	WSW	0	0	29.37	-.25	59	56	0	W	6	bc	*	68	57	0.16	
Bodo ...	29.41	50	Z	0	b	29.23	-.29	57	52	+2	ESE	2	b	1	?	46	-	
Christiansund...	29.24	65	NW	2	0	29.21	-.19	54	52	+1	SE	1	c	1	59	50	0.08	
Skudesnaes ...	29.26	57	SSE	6	0	29.25	-.10	56	54	-1	SE	2	O	H	?	?	-	
Christiana Fjord (Farder)	29.30	57	?	3	b	29.28	-.15	58	55	+1	SW	3	b	2	59	55	-	
Skagen (The Seaw)	29.32	53	Z	0	b	29.28	-.17	56	56	-1	SW	1	O	O	61	?	0.08	
Faro ...	29.38	58	SW	4	0	29.35	-.10	60	57	+3	W	6	c	*	63	55	0.24	
BRITISH ISLANDS.																		
Sumburgh Head	29.24	52	NNE	1	0	29.27	-.09	49	48	-2	NNE	2	c	3	57	45	0.01	
Stornoway ...	29.27	54	E	6	0	29.33	-.06	52	51	0	E	6	og	6	57	49	0.08	
Wick ...	29.20	54	NE	2	0	29.33	-.04	51	49	-1	NE	2	d	1	59	44	0.04	
Nairn ...	29.20	54	E	2	0	29.30	-.08	50	50	-1	E	2	d	2	55	49	0.13	
Aberdeen ...	29.26	54	E	2	0	29.28	-.09	53	51	-2	NNE	3	O	1	59	50	-	
Leith ...	29.19	56	SE	1	r	29.25	-.11	52	52	-2	NW	1	O	*	60	51	0.44	
Shields ...	29.21	53	E	3	r	29.29	-.07	59	54	+3	SW	3	c	2	60	50	0.30	
Spurn Head ...	29.28	64	SW	3	bc	29.38	-.07	58	55	+2	SW	5	cg	3	65	55	0.04	
York ...	29.26	58	SW	2	r	29.38	-.05	56	53	+2	SW	3	O	*	59	53	0.21	
Loughborough	29.36	63	WSW	5	bc	29.49	-.01	58	52	+3	W	4	b	*	67	54	0.11	
GERMANY.																		
Ardrossan ...	29.15	55	ESE	2	r	29.28	-.06	57	56	+4	ESE	2	rm	1	60	49	0.44	
Main Head ...	29.02	55	ESE	4	0	29.28	+0.03	54	51	+2	NNE	4	bc	3	55	52	0.51	
Mullaghmore ...	29.03	58	W	7	0	29.34	+0.11	54	52	+1	SW	4	c	H	59	51	0.73	
Belmullet ...	29.19	57	WNW	7	r	29.45	+0.24	58	52	-2	SW	2	O	*	59	51	0.67	
Donaghadee ...	29.14	57	W	4	0	29.36	+0.02	55	52	+3	W	5	b	H	57	52	0.69	
FRANCE & NETHERLANDS.																		
Barrow-in-Furness	29.23	59	SSW	8	0	29.36	-.04	56	53	0	SW	6	O	*	60	53	0.39	
Liverpool (Bidston)	29.29	60	SW	3	0	29.43	+0.01	57	51	+3	W	3	bc	3	62	54	0.12	
Holyhead ...	29.29	59	SW	6	ogm	29.42	+0.04	58	54	+3	SW	4	b	4	62	54	0.12	
Parsonstown ...	29.27	59	WSW	5	0	29.39	+0.15	54	52	+1	S	1	O	*	60	50	0.05	
Valencia ...	29.49	58	W	6	om	29.39	+0.07	56	56	-4	SSW	3	c	3	63	53	0.03	
Roche's Point...	29.45	60	W	6	bc	29.45	+0.11	57	55	-5	W	3	pc	4	63	53	0.08	
Pembroke ...	29.44	59	W	7	0	29.49	+0.12	59	57	-1	W	6	c	5	61	57	-	
Seilly ...	29.62	61	W	6	om	29.56	+0.00	62	60	+1	SW	4	om	6	65	56	0.02	
Prawle Point ...	29.60	59	SW	6	b	29.66	+0.10	60	58	+1	S	4	bc	5	62	55	0.02	
Jersey ...	29.71	65	W	5	c	29.69	-.02	63	60	+2	W	5	ogm	5	68	60	0.07	
SPAIN.																		
Hurst Castle ...	29.55	63	W	7	c	29.63	+0.02	60	58	+1	W	6	cdm	5	65	56	0.04	
Dungeness ...	29.51	63	W	7	rq	29.62	+0.02	61	57	+3	W	6	c	5	65	58	0.05	
London ...	29.48	65	W	4	bc	29.60	+0.01	59	55	+3	W	3	c	*	68	54	0.02	
Oxford ...	29.49	59	SW	5	c	29.57	+0.03	55	53	-1	SW	4	O	*	66	54	0.07	
Cambridge ...	29.45	63	SW	4	c	29.54	0.00	59	53	+3	SW	2	b	*	68	54	0.12	
Yarmouth ...	29.41	65	W	4	cg	29.53	+0.03	58	54	+2	W	3	c	3	65	55	0.05	
ITALY.																		
Cuxhaven ...	29.54	59	W	5	r	29.50	-.06	60	59	+2	W	5	c	*	60	50	0.38	
Berlin ...	29.64	62	WNW	1	c	29.66	-.01	65	58	+3	W	4	bc	*	70	59	0.12	
Wiesbaden ...	*	*	*	*	*	29.79	+0.04	66	62	+5	SW	4	O	*	68	59	0.06	
Munich ...	29.98	65	SW	6	0	29.99	+0.04	64	60	+2	SW	3	O	*	72	?	-	
PORTUGAL.																		
The Helder ...	29.41	63	SW	5	0	29.53	+0.06	60	55	+1	W	5	O	4	63	59	0.12	
Brussels ...	*	*	*	*	*	29.71	+0.13	61	60	+3	W	4	O	*	65	?	0.28	
Cape Gris Nez...	29.55	63	W	9	c	29.63	+0.05	61	57	+2	W	8	f	6	66	57	0.04	
Paris ...	29.80	68	W	5	0	29.81	+0.05	64	61	+2	SW	3	c	*	72	?	0.08	
Brest ...	29.83	62	W	5	0	29.69	-.05	60	59	-1	SW	5	O	5	73	55	-	
Lorient ...	29.83	64	W	8	b	29.77	-.05	61	60	-2	W	1	O	5	71	59	0.12	
Rochefort ...	30.04	67	W	7	0	29.94	-.06	66	65	0	SW	7	O	2	72	63	0.04	
Belfort ...	29.95	68	SW	4	0	29.96	+0.04	67	63	+3	SW	3	O	*	69	59	0.12	
Lyons ...	29.98	72	S	3	b	29.98	-.03	64	59	+2	S	1	b	*	78	57	-	
Nice ...	29.91	72	S	1	bc	29.95	+0.06	66	63	+4	E	1	c	1	86	61	0.12	
AFRICA.																		
Perpignan ...	30.05	74	Z	0	0	30.00	-.08	67	63	-3	NW	1	b	*	85	59	-	
Biarritz ...	30.06	70	NNE	4	b	29.91	-.21	59	59	-10	SSE	4	m	2	77	55	-	
ASIA.																		
Corunna ...	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	
Lisbon ...	30.04	71	NNE	7	b	30.04	-.07	60	61	+1	N	5	b	2	86	63	-	

For Explanation of Columns, see p. 4.



# WEATHER CHARTS

for 8 a.m. on Tuesday, 6<sup>th</sup> September.

1887.

## BAROMETER, WIND & SEA.

(Explanation of Map)

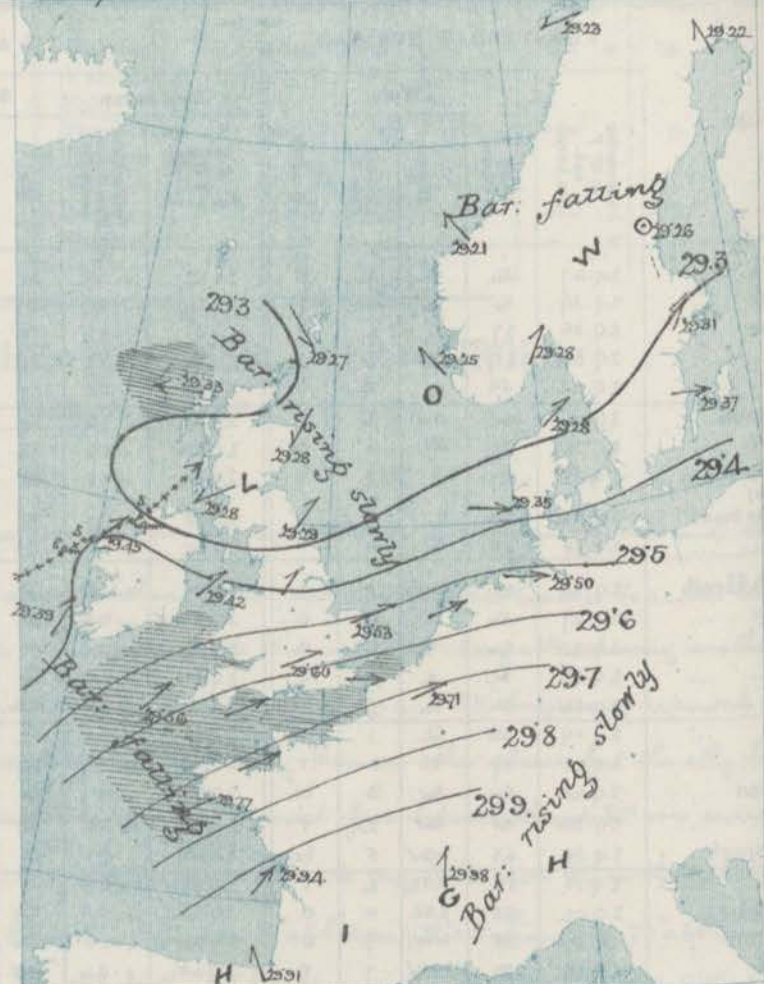
**Barometer** — Iso-bars are drawn for each tenth of an inch. Changes since previous morning are stated in words.  
**Wind** — Arrows show the prevalent winds. They fly with the wind and their barbs and feathers refer to force, thus —  
 — = forces above 10; — = forces 8 to 10;  
 — = forces 5 to 7;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

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

## MEAN HEIGHT of the BAROMETER

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

STATIONS.	MEAN READINGS.
	ins.
Sumburgh Head	29.758
Stornoway	29.781
Wick	29.786
Nairn	29.812
Aberdeen	29.815
Leith	29.851
Shields	29.876
York	29.913
Ardrossan	29.858
Donaghadee	29.875
Holyhead	29.903
Liverpool	29.910
Valencia	29.929
Roche's Point	29.923
Pembroke	29.924
Scilly	29.950
Hurst Castle	29.978
Dover	29.955
LONDON	29.955
Oxford	29.943
Cambridge	29.943
Yarmouth	29.928



## 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 September.

STATIONS	TEMPERATURE				RAINFALL (Inches)
	Daily Max	Daily Min.	At 8 a.m.		
			Day	Night	
Sumburgh Head	55.2	46.2	50.6	49.0	3.46
Stornoway	55.9	45.4	51.0	49.7	4.13
Wick	57.5	45.3	51.6	49.7	2.66
Nairn	59.0	47.0	51.3	48.8	2.73
Aberdeen	58.0	47.1	52.0	49.6	3.22
Leith	62.7	47.8	53.5	51.1	2.47
Shields	60.0	49.0	53.4	51.2	2.58
York	63.2	47.3	53.1	51.2	2.98
Ardrossan	59.9	49.9	53.6	51.0	3.87
Donaghadee	59.5	49.2	53.3	52.1	3.22
Holyhead	61.1	53.1	55.6	53.4	3.35
Liverpool	61.3	51.2	54.7	52.0	3.56
Valencia	61.9	52.0	56.4	53.9	4.87
Roche's Point	62.0	51.7	55.4	53.2	4.39
Pembroke	60.4	53.4	56.3	53.9	3.89
Scilly	61.9	55.2	58.5	56.5	3.09
Hurst Castle	64.4	52.9	57.8	56.3	3.35
Dover	63.1	52.8	58.3	55.4	2.86
LONDON	60.9	49.3	56.4	54.0	2.50
Oxford	63.8	49.0	54.2	52.4	2.91
Cambridge	65.8	48.5	54.5	52.9	2.48
Yarmouth	62.3	50.8	56.3	54.4	3.17

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, 30.0 ins. and upwards, in the neighbourhood of Lisbon. Lowest, 29.3 ins. and less, in a large area extending from Scotland across the North Sea to Scandinavia.
TEMPERATURE	Highest, 66° at Rochefort and Lisbon, 64° at Lyons, 63° at Jersey, 62° at Sully, and 61° at Bungeness, C. Fris. Key, Bournemouth, and Lorient. Lowest, 49° at Lumburgh H <sup>ts</sup> , 50° at Nairn, 51° at Wick, and 52° at Stromway and Leith.
WIND	Light SE <sup>2</sup> in the west of Norway; NE <sup>2</sup> or E <sup>2</sup> in Scotland. SW <sup>2</sup> or W <sup>2</sup> elsewhere; strong in force at several of our western and southern stations, with a gale at C. Fris. Key. [Moderate SW to W <sup>2</sup> gales were experienced in the west and south generally.]
WEATHER	Cloudy in most places, with rain at Stockholm, Nairn, and Ardaraan, and passing showers at Malin H <sup>ts</sup> and Roches Point. [Rain fell generally yesterday, the largest amounts being 0.7 in. at Mullaghmore, Belmullet, and Donaghadee, and 0.5 in. at Malin H <sup>ts</sup> .]
SEA	Rough at Stromway, Sully, and C. Fris. Key, and rather rough in the south and southwest generally.

## PROBABLE CHANGES IN SYSTEM NOW PREVALENT

The depression which lay off the west of Ireland yesterday has travelled north-eastwards to Scotland, and now forms part of the large area of low pressure noticed above.

A new disturbance is, however, approaching our SW. coasts and the barometer is again falling, somewhat decidedly in the south-west of our Islands, as well as in the west of France. Strong and squally SW<sup>2</sup> winds are therefore probable on our south coasts, with rain in many places.

## FORECASTS

For the 24 hours ending at NOON on 7<sup>th</sup> September 1887.

DISTRICTS.	FORECASTS.	DISTRICTS.	FORECASTS.
0 SCOTLAND NORTH	Light or moderate breezes, chiefly NE <sup>2</sup> ; dull, some rain.	6 SCOTLAND WEST	Same as No. 0.
1 SCOTLAND EAST	-----D <sup>2</sup> -----D <sup>2</sup> -----D <sup>2</sup> -----	7 ENGLAND N. W.	SW <sup>2</sup> and W <sup>2</sup> winds, fresh; fair to unsettled and some rain.
2 ENGLAND N. E.	SW <sup>2</sup> winds, fresh; fair to unsettled and some rain.	8 ENGLAND S. W.	SW <sup>2</sup> to W <sup>2</sup> winds, strong; squally, some rain.
3 ENGLAND EAST	-----D <sup>2</sup> -----D <sup>2</sup> -----D <sup>2</sup> -----	9 IRELAND NORTH	Same as No. 7.
4 MIDLAND COUNTIES	-----D <sup>2</sup> -----D <sup>2</sup> -----D <sup>2</sup> -----	10 IRELAND SOUTH	Same as No. 8.
5 ENGLAND SOUTH	SW <sup>2</sup> and W <sup>2</sup> winds, strong; squally, some rain.		

### WARNINGS

The south cone has been lowered this morning in districts 6, 9, and part of 7, but is still flying in districts 3, 5, 8, 10, and the remainder of 7.

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



# YESTERDAY'S 2 P.M. REPORTS.

	Bar.	Dry.	Wet.	Wind.	Wes.	Sea.		Bar.	Dry.	Wet.	Wind.	Wes.	Sea.
Skudonnes ...	29.40	58	55	SE 5	Y	4	Holyhead ...	29.27	60	59	SEW 4	Ym	3
Sumburgh Head ...	29.29	56	53	NHE 3	C	3	Valencia ...	29.43	60	55	NW 7	omq	6
Stornoway ...	29.30	57	55	E 5	bc	5	Scilly ...	29.60	62	61	W 6	0	6
Aberdeen ...	29.31	58	55	NHE 2	C	1	Dungeness ...	29.51	63	62	NW 6	0 qf	5
Shields ...	29.31	58	55	S 3	T	2	London ...	29.46	67	64	NW 5	cg	*
Ardrossan ...	29.24	57	56	SE 3	T	2	Yarmouth ...	29.45	57	56	SEW 3	cp	3
Malin Head ...	29.09	53	52	SE 5	O	3	Jersey ...	29.72	66	64	NW 5	0	4
Mullaghmore ...	29.08	57	57	SW 5	T	4	Rochefort ...	30.05	70	65	NW 7	0	2
Belmullet ...	29.05	58	58	SW 5	T	*							

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

The reports for yesterday morning showed that pressures varied from 30.1 ins: and more over Spain and Central Russia and from about 30 ins over the Mediterranean to rather below 29.5 ins: over the greater part of the North Sea and British Isles to about 29.3 ins: between the Scotch and Norwegian coasts, and to about 29.2 ins: in a depression, the centre of which lay over the NW. of Ireland. Thus, S<sup>3</sup> to W<sup>3</sup> winds of considerable strength prevailed over the greater part of Western and Northern Europe, but N<sup>2</sup> to E<sup>2</sup> winds of less force were felt in Scotland and the north of Ireland and the northwest of Norway. The weather was changeable and rainy generally, and thunderstorms had again occurred in the south. Temperature showed no great change from that of Sunday except over the northern part of the Adriatic, where it had fallen considerably. The readings varied from somewhat above 80° in some part of Algeria, and from between 70° and 80° over the Mediterranean to rather below 50° over the northern part of Scandinavia. The highest individual values were 82° at Biskia (Algeria) 79° at Malta, 78° at Monaco, 77° at Rhindri, 74° at Palermo and Barcelona, and 71° at Bilbao; at Zurich it had fallen to 66°. The lowest values were 49° at Uleaborg and Rode, 51° at Lumburgh H<sup>2</sup>, 52° at Kuopio and Bomoway, 53° at Christiansund, and 54° at Hurnöand.

Later in the day the SW wind blew still more strongly over the British Isles, but the NE<sup>2</sup> breeze in the north began to give way. The weather remained showery and unsettled.

### EXPLANATION OF COLUMNS GIVEN ON PAGE 1.

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

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

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

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



# DAILY WEATHER REPORT.

for Wednesday 7<sup>th</sup> September. 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 35° F. and Sea Level.	Temp. in Shade.	WIND.		Weather.	BAROMETER.		SHADE TEMP.			WIND.		Weather.	Sea. (0 to 9.)	SHADE TEMP.		Amount of Rainfall.	
			Dirac.	Force. (0 to 12.)		Reading at 35° F. and Sea Level.	Difference from 8 a.m. yesterday.	Dry.	Wet.	Difference from 8 a.m. yesterday.	Dirac.	Force. (0 to 12.)			Max.	Min.		
SCANDINAVIA.																		
Haparanda ..	29.17	54	L	0	0	29.28	+ .06	57	58	+ 2	SW	2	0	*	57	50	0.28	
Hernösand ..	29.29	55	SSW	2	0	29.38	+ .12	54	52	- 1	L	0	0	*	64	52	-	
Stockholm ..	29.44	58	S	2	0	29.57	+ .26	59	56	+ 4	S	4	0	*	68	50	-	
Wisby ..	29.50	61	W	6	0	29.62	+ .25	61	57	+ 2	SW	6	0	*	64	55	-	
Bodö ..	28.80	53	L	0	0	29.25	+ .02	54	52	- 3	L	0	0	0	63	50	0.04	
Christiansund ..	29.25	54	SE	1	r	29.44	+ .23	49	46	- 5	WNW	6	r	3	57	46	0.16	
Skudesnaes ..	29.32	56	SSE	1	0	29.57	+ .26	51	50	- 5	NW	6	c	3	59	?	-	
Christiania Fjord (Færder) ..	29.32	54	SSE	2	r	29.41	+ .18	58	56	0	WSW	3	bc	2	59	55	0.08	
Skagen (The Scaw) ..	29.37	59	W	3	0	29.48	+ .20	56	55	0	WSW	3	b	2	59	54	0.08	
Faßö ..	29.51	58	SSW	4	0	29.54	+ .19	62	60	+ 2	SW	4	b	*	63	57	-	
BRITISH ISLANDS.																		
Sumburgh Head ..	29.42	47	N	1	0	29.71	+ .44	46	41	- 3	NNW	3	c	2	51	39	0.01	
Sternoway ..	29.51	50	E	6	0	29.87	+ .54	47	45	- 5	? E	3	0	3	56	43	-	
Wick ..	29.46	49	NE	4	0	29.83	+ .50	47	42	- 4	N	4	c	1	51	43	-	
Nairn ..	29.46	51	NE	3	0	29.82	+ .32	47	45	- 3	N	4	cp	3	57	44	0.18	
Aberdeen ..	29.43	53	N	3	c	29.75	+ .47	48	46	- 5	N	5	cp	3	56	44	0.07	
Leith ..	29.41	52	SE	1	0	29.74	+ .49	50	46	- 2	N	1	0	*	54	47	0.46	
Shields ..	29.39	55	NE	2	op	29.64	+ .35	52	48	- 7	N	6	0	5	65	50	1.62	
Spurn Head ..	29.42	61	S	2	bc	29.56	+ .18	55	53	- 3	WNW	2	bcu	2	63	52	0.08	
York ..	29.41	57	W	1	r	29.61	+ .23	51	50	- 5	NNE	1	r	*	65	45	0.71	
Loughborough ..	29.43	59	S	2	r	29.62	+ .13	51	50	- 7	NW	2	of	*	68	47	0.22	
Ardrossan ..	29.36	55	ENE	1	cp	29.79	+ .51	51	45	- 6	ENE	1	b	1	62	43	0.17	
Malin Head ..	29.36	55	NNW	3	c	29.82	+ .54	52	47	- 2	N	4	op	4	58	51	0.09	
Mullaghmore ..	29.41	55	NNW	4	c	29.87	+ .53	53	48	- 1	NNW	5	c	4	59	52	0.07	
Belmullet ..	29.44	56	NNW	2	bc	29.96	+ .51	53	49	- 2	N	3	0	*	60	51	0.01	
Donaghadee ..	29.37	54	SW	2	r	29.76	+ .40	52	49	- 3	NE	6	bc	5	63	50	0.13	
Barrow-in-Furness ..	29.36	56	N	2	0	29.67	+ .31	51	49	- 5	N	3	r	*	61	50	0.28	
Liverpool (Bidston) ..	29.38	54	SW	1	c	29.66	+ .23	54	51	- 3	NNE	2	c	2	64	51	0.32	
Holyhead ..	29.32	56	SW	3	bc	29.69	+ .27	55	52	- 3	NNE	6	bcu	5	62	51	0.04	
Parsonstown ..	29.39	56	L	0	bc	29.85	+ .46	53	51	- 1	WNW	2	c	*	60	46	0.02	
Valencia ..	29.38	55	SW	3	cp	29.96	+ .57	59	52	+ 3	NNW	5	bcu	4	60	53	0.05	
Roche's Point ..	29.38	57	SW	2	bc	29.83	+ .38	56	52	- 1	N	5	b	4	60	50	0.09	
Pembroke ..	29.40	58	WSW	4	r	29.71	+ .22	56	54	- 3	NW	4	bc	4	62	51	0.47	
Scilly ..	29.45	58	SW	5	c	29.78	+ .22	58	56	- 4	NW	6	c	6	64	54	0.26	
Prawle Point ..	29.53	57	SSW	5	bc	29.68	+ .02	58	55	- 2	NW	4	bc	4	63	51	0.17	
Jersey ..	29.60	64	WSW	3	opg	29.65	- .04	58	55	- 5	WSW	5	ormy	4	69	57	0.04	
Hurst Castle ..	29.54	62	SW	6	cpd	29.61	- .02	63	63	+ 3	NNW	1	r	3	65	52	0.10	
Dungeness ..	29.55	62	WSW	3	c	29.57	- .05	60	57	- 1	WSW	5	c	4	66	57	0.04	
London ..	29.51	63	SW	3	c	29.60	.00	58	55	- 1	W	1	b	*	69	58	0.17	
Oxford ..	29.49	57	SW	3	0	29.61	+ .04	53	52	- 2	SSW	1	ru	*	67	51	0.11	
Cambridge ..	29.47	60	SW	2	b	29.61	+ .07	55	54	- 4	SW	1	r	*	68	48	0.03	
Yarmouth ..	29.52	64	SW	3	c	29.58	+ .05	55	54	- 3	W	1	od	3	67	52	0.01	
Cuxhaven ..	29.58	58	SW	3	c	29.63	+ .13	59	59	- 1	SW	3	0	*	62	57	-	
Berlin ..	29.73	67	L	0	c	29.72	+ .06	67	63	+ 2	SH	2	c	*	75	63	0.04	
Wiesbaden ..	*	*	*	*	*	29.80	+ .01	64	62	- 2	L	0	0	*	72	59	0.08	
Munich ..	29.95	62	L	0	b	29.95	- .04	65	60	+ 1	SE	3	b	*	73	54	-	
FRANCE & NETHERLANDS.																		
The Helder ..	29.50	62	SW	3	0	29.58	+ .05	61	57	+ 1	SW	3	c	3	64	59	0.32	
Brussels ..	*	*	*	*	*	29.65	61	57	?	?	W	7	r	5	66	54	0.20	
Cape Gris Nez ..	29.58	62	WSW	5	c	29.61	- .02	?	?	?	W	7	r	5	66	54	0.20	
Paris ..	29.69	66	SSW	4	r	29.79	- .02	59	57	- 5	SW	4	c	*	68	57	0.32	
Brest ..	?	60	WSW	5	0	?	?	58	55	- 2	NW	7	0	7	72	57	0.12	
Lorient ..	29.70	63	W	5	bc	29.73	- .04	59	55	- 2	NNW	8	bc	6	66	57	0.04	
Rocheport ..	29.84	66	SW	8	r	29.93	- .01	64	60	- 2	W	8	bc	5	70	52	0.57	
Belfort ..	29.93	66	W	3	c	29.87	- .09	67	64	+ 1	W	1	0	*	74	62	-	
Lyons ..	29.86	73	S	3	b	29.86	- .12	60	59	- 4	ESE	1	t	*	80	60	0.35	
Nice ..	29.95	69	E	1	0	29.97	+ .02	70	67	+ 4	E	1	b	1	79	59	-	
Perpignan ..	29.84	73	E	3	0	29.89	+ .11	70	65	+ 3	W	4	r	*	81	67	-	
Biarritz ..	29.88	71	W	4	b	30.03	+ .12	64	62	+ 5	WSW	5	r	3	75	?	-	
Corunna ..	*	*	*	*	*	30.11	+ .14	66	63	- 3	NNW	3	b	6	72	59	0.16	
Lisbon ..	30.01	68	N	5	b	30.07	+ .03	63	58	- 3	N	7	e	4	79	63	-	

For Explanation of Columns, see p. 4.



# WEATHER CHARTS

for 8 a.m. on WEDNESDAY 7<sup>th</sup> September. 1887.

## BAROMETER, WIND & SEA.

(Explanation of Map)

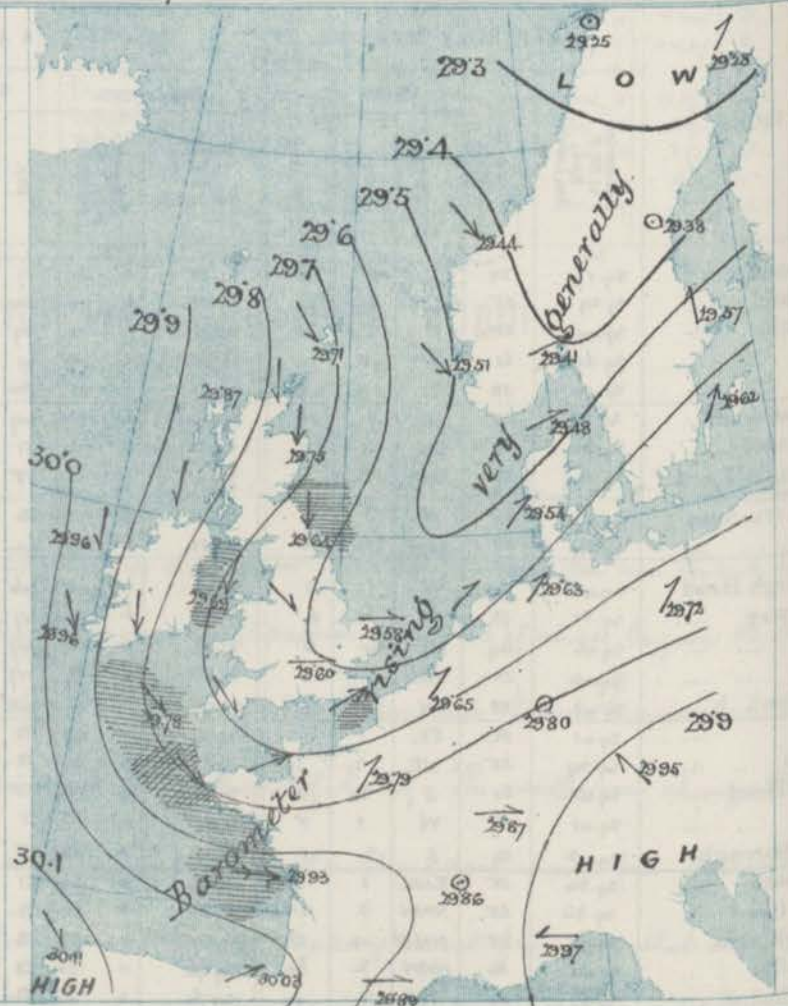
**Barometer** — Isobars are drawn for each tenth of an inch. Changes since previous morning are stated in words.  
**Wind** — Arrows show the prevalent winds. They fly with the wind and their barbs and feathers refer to force, thus —  
 — = forces above 10; — = forces 5 to 10;  
 — = forces 5 to 7; —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

STATIONS.	MEAN READING.
	in.
Sumburgh Head	29.758
Stornoway	29.781
Wick	29.780
Nairn	29.812
Aberdeen	29.815
Leith	29.851
Shields	29.876
York	29.913
Ardrossan	29.858
Donaghadee	29.875
Holyhead	29.908
Liverpool	29.910
Valencia	29.929
Roche's Point	29.923
Pembroke	29.924
Scilly	29.960
Hurst Castle	29.978
Dover	29.955
LONDON	29.956
Oxford	29.943
Cambridge	29.943
Yarmouth	29.928



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

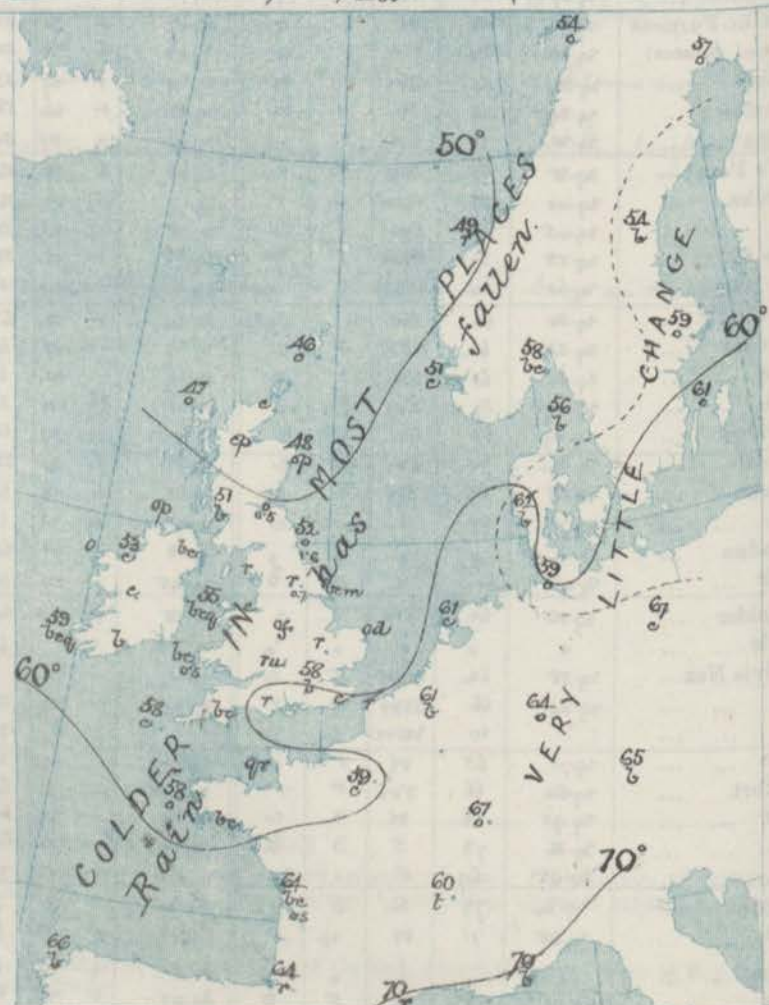
**Temperature** — Isotherms are drawn for each 10° Changes since previous morning are stated in words.  
**Weather** — is shown by Letters of the Beaufort Scale.  
**Rainfall** — A dotted line separates the districts in which rain has fallen from those where there has been none. Falls of 0.5 in. or more,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

## MEANS OF TEMPERATURE IN SHADE. AND RAINFALL.

for the month of September.

STATIONS	TEMPERATURE				RAINFALL (Inches)
	Daily Max	Daily Min.	At 8 a.m.	At 8 p.m.	
Sumburgh Head	55.2	46.2	50.8	49.0	3.46
Stornoway	55.9	45.4	51.0	49.7	4.13
Wick	57.5	45.3	51.6	49.7	2.60
Nairn	59.0	47.0	51.3	48.8	2.73
Aberdeen	58.0	47.1	52.0	49.6	3.22
Leith	62.7	47.8	53.5	51.1	2.47
Shields	60.0	49.0	53.4	51.2	2.58
York	63.2	47.3	53.1	51.2	2.98
Ardrossan	59.9	49.9	53.6	51.0	3.87
Donaghadee	59.5	49.2	53.3	52.1	3.22
Holyhead	61.1	53.1	55.6	53.4	3.35
Liverpool	61.3	51.2	54.7	52.0	3.50
Valencia	61.9	52.0	56.4	53.9	4.87
Roche's Point	62.0	51.7	55.4	53.2	4.89
Pembroke	60.4	53.4	56.3	53.9	3.80
Scilly	61.9	55.2	58.5	56.5	3.69
Hurst Castle	64.4	52.9	57.8	56.3	3.35
Dover	63.1	52.8	58.3	55.4	2.86
LONDON	66.9	49.3	56.4	54.0	2.59
Oxford	63.8	49.0	54.2	52.4	2.91
Cambridge	65.8	48.5	54.5	52.9	2.48
Yarmouth	62.3	50.5	56.3	54.4	3.17

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	<p><u>Highest</u>, 30.0 ins. and more over the Iberian peninsula; 29.9 ins. and more over Switzerland, the west of Ireland, and apparently off the west of Scotland also.</p> <p><u>Lowest</u>, 29.3 ins. and less over Lapland; 29.5 ins. at Fano; 29.6 ins. in London.</p> <p><u>Gradients</u> moderate everywhere, but changing in type. <u>Baromet.</u> rising fast in west and north-west, and rise spreading E.</p>
TEMPERATURE	<p><u>Highest</u>, 70° at Nice and Perpignan, 67° at Belfort and Berlin, 65° at Munich.</p> <p><u>Lowest</u>, 46° at Lumburg Head, 47° at Stornoway, Wick and Inver, 48° at Aberdeen, 49° at Christiansund.</p> <p>It is falling over the British Islands generally, and in most parts of France, but not to the eastward of the North Sea.</p>
WIND	<p>Has shifted to the N<sup>th</sup> at our northern, western and south-western stations, and is moderate to fresh in force.</p> <p>Strong NW<sup>ly</sup> in Brittany; W<sup>ly</sup> in the south-west of France; moderate SW<sup>ly</sup> in Germany and Denmark.</p> <p>Over our midland and eastern counties it is light and variable.</p>
WEATHER	<p>Fair at present over Germany and the eastern shores of the North Sea.</p> <p>Showery over the eastern and midland counties of England (with thunder at times) and in the south of France.</p> <p>In the west it is improving gradually and is clear in some places. Rain has fallen generally, — very heavily at Shields.</p>
SEA	<p>Rough at Lundy, rather so in the Irish Sea; moderate in the English Channel and North Sea; slight in the extreme north.</p>

## PROBABLE CHANGES IN SYSTEM NOW PREVALENT


The northerly winds, improving weather, and increasing pressure now prevalent in the west will probably spread over the whole of the United Kingdom today.


It is probable that the weather will be decidedly cold over our inland counties tonight and in the early morning.

## FORECASTS

for the 24 hours ending at NOON on 8<sup>TH</sup> SEPT: 1887.

DISTRICTS.	FORECASTS.	DISTRICTS.	FORECASTS.
0 { SCOTLAND NORTH	Northerly to North-easterly winds, moderate; showery to fair. Colder.	6 { SCOTLAND WEST	Northerly winds, moderate and fresh; weather improving, but cold.
1 { SCOTLAND EAST	----- D° ----- D° ----- D° -----	7 { ENGLAND N.W.	----- D° ----- D° ----- D° -----
2 { ENGLAND N.E.	----- D° ----- D° ----- D° -----	8 { ENGLAND S.W.	North-westerly winds, fresh; fair as a whole.
3 { ENGLAND EAST	Same as N° 5.	9 { IRELAND NORTH	Northerly and North-westerly winds moderate; fair, very cold at night.
4 { MIDLAND COUNTIES	Same as N° 0.	10 { IRELAND SOUTH	----- L° ----- D° ----- D° -----
5 { ENGLAND SOUTH	Westerly to Northerly winds; some showers, then finer and much colder.	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 ...	29.30	54	55	Z 0	0	3	Holyhead ...	29.39	57	54	SSW 4	cm	4
Sumburgh Head	29.35	50	48	N 1	0	2	Valencia ...	29.32	58	54	SSE 4	cm	4
Stornoway ...	29.43	58	51	E 6	0	6	Scilly ...	29.49	60	59	WSW 4	cp	6
Aberdeen ...	29.37	56	52	NNE 3	op	2	Dungeness ...	29.59	65	61	WSW 5	c	4
Shields ...	29.36	63	54	WSW 3	bcp	2	London ...	29.54	68	59	WSW 4	c	*
Ardrossan ...	29.33	60	56	Z 0	bc	0	Yarmouth ...	29.53	66	58	WSW 4	c	4
Malin Head ...	29.33	57	52	NW 2	c	2	Jersey ...	29.64	68	64	SSW 4	c	4
Mullaghmore ...	29.35	56	51	WSW 2	om	2	Rochefort ...	29.89	69	68	SW 7	o	3
Belmullet ...	29.37	58	53	NNW 1	c	*							

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

Yesterday morning's reports showed that pressure then varied from between 29.9 ins and 30.1 ins over Spain, the south of France and the Mediterranean to a little below 29.3 ins over Scotland, and to 29.2 ins in the west of Norway. There was a shallow complex area of low pressure over Scandinavia and Scotland, and another (smaller) one approaching Ireland from the westward. S<sup>4</sup> to W<sup>4</sup> winds were consequently the prevailing wind currents over Eastern and Western Europe, and were accompanied by showery, changeable weather, but over Eastern and Southern Europe the wind was very light and variable, and the weather fine. Temperatures showed some tendency to increase over Algeria and the Western Mediterranean, and ranged from upwards of 80° in these regions, and from between 70° and 80° over Southern Europe to about 55° at many of the northern stations, and to between 49° and 52° in the extreme north of the British Islands. The highest individual values were 82° at Annaba and Algiers, 81° at Cagliari, 80° at Barcelona and Malta, 79° at Pirindisi and 73° at Livorno; San Fernando and Languisain; the least 49° at Sumburgh Head, 50° at Paris, 51° at Wick and 52° at Lill and Stornoway. Later in the day the disturbances over the British Islands moved eastward, and N<sup>4</sup> wind began to set in over the western part of the United Kingdom, with showers, followed by colder, but 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).

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for Thursday 8<sup>th</sup> September 1887.

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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 ..	29.48	53	Z	0	c	29.39	+1.1	55	54	-2	E	2	0	*	59	57	-		
Hernösand ..	29.48	53	NW	4	c	29.61	+2.3	44	42	-10	NW	4	0	*	54	52	0.12		
Stockholm ..	29.62	55	S	2	bc	29.71	+1.1	53	50	+6	NW	4	0	*	68	54	0.08		
Wishy ..	29.70	60	SW	2	bc	29.77	+1.5	59	56	-2	W	6	0	*	68	57	-		
Bodö ..	29.45	49	NW	9	0	29.49	+2.4	46	43	-8	SE	1	0	1	55	45	0.16		
Christiansund ..	29.62	46	NW	8	r	29.73	+2.9	47	43	-2	NW	9	r	6	52	41	0.43		
Skudesnaes ..	29.80	48	NW	7	c	30.07	+5.6	53	46	+2	NW	2	c	3	54	48	-		
Christiania Fjord (Forder) ..	29.51	58	NW	3	bc	29.91	+5.0	51	43	-7	W	3	0	2	61	48	-		
Skagen (The Scaw) ..	29.57	57	N	2	bc	29.97	+4.9	53	46	-3	N	3	0	3	63	52	0.28		
Faro ..	29.76	53	NW	6	b	30.14	+6.0	54	47	-5	NW	6	0	*	66	52	0.04		
BRITISH ISLANDS.																			
Sumburgh Head ..	29.84	49	NW	1	bc	29.91	+2.0	50	49	+4	SW	2	r	3	53	41	0.05		
Stornoway ..	30.03	52	NW	2	0	29.97	+1.0	57	56	+10	W	3	0	3	57	45	-		
Wick ..	29.94	49	N	4	c	30.03	+2.0	54	50	+7	SW	4	0	1	55	42	0.03		
Nairn ..	30.03	51	NW	2	bc	30.07	+2.5	56	50	+9	NW	3	bc	3	59	43	-		
Aberdeen ..	30.02	52	NW	1	b	30.13	+3.8	52	48	+4	NW	1	bcw	1	55	39	-		
Leith ..	30.05	55	E	1	c	30.18	+4.4	54	49	+4	NW	3	0	*	59	39	-		
Shields ..	30.06	51	N	2	bc	30.28	+6.4	54	47	+2	W	2	c	4	54	40	-		
Spurn Head ..	29.97	55	NW	5	bc	30.33	+7.7	53	48	-2	W	3	bcw	3	58	48	0.01		
York ..	30.05	52	N	2	bc	30.34	+7.3	48	43	-6	SSE	1	0	*	59	38	0.04		
Loughborough ..	30.06	55	N	3	c	30.39	+7.7	43	42	-8	W	1	bcw	*	59	34	-		
Ardrossan ..	30.07	57	W	3	b	30.22	+4.5	56	52	+5	SW	5	0	4	59	49	-		
Malin Head ..	30.12	53	NW	3	0	30.16	+3.4	54	51	+2	SW	1	0	3	55	49	-		
Mullaghmore ..	30.16	54	NW	4	bc	30.21	+3.4	55	51	+2	S	5	bcw	3	59	49	-		
Belmullet ..	30.18	55	NW	2	c	30.18	+2.2	58	54	+5	SW	4	0	*	58	53	-		
Donaghadee ..	30.11	55	N	5	b	30.27	+5.1	51	49	-1	SW	4	bc	3	57	48	-		
Barrow-in-Furness ..	30.06	56	NNE	3	bc	30.28	+6.1	52	49	+1	NW	2	bc	*	59	48	-		
Liverpool (Bidston) ..	30.07	58	NW	2	c	30.34	+6.8	53	49	-1	SW	2	0	2	60	49	-		
Holyhead ..	30.10	54	NW	4	b	30.33	+6.4	57	51	+2	SW	1	bc	2	58	47	-		
Parsonstown ..	30.18	58	NW	2	bc	30.31	+4.6	51	47	-2	SW	0	0	*	60	43	-		
Valencia ..	30.24	58	NW	2	bc	30.31	+4.5	58	54	-1	S	3	0	4	61	50	-		
Roche's Point ..	30.19	58	NW	4	bc	30.35	+5.2	52	49	-4	NW	1	bc	2	62	44	-		
Pembroke ..	30.13	55	N	3	b	30.36	+6.5	54	53	-2	N	2	c	3	60	51	-		
Scilly ..	30.12	59	NW	6	bc	30.37	+5.9	60	57	+2	Z	0	bc	4	60	53	0.01		
Prawle Point ..	30.10	56	N	3	c	30.38	+7.0	60	55	+2	EHE	2	0	2	66	47	0.04		
Jersey ..	30.05	62	NW	4	b	30.35	+7.0	60	55	+2	NNE	3	bcw	3	65	55	0.03		
Hurst Castle ..	30.02	57	NNE	3	c	30.38	+7.7	54	51	-4	EHE	2	0	2	65	44	0.08		
Dungeness ..	29.93	57	N	4	c	30.36	+7.9	50	48	-10	N	3	0	2	63	42	0.39		
London ..	30.03	55	NNE	2	bc	30.40	+8.0	49	46	-9	SW	1	m	*	65	40	-		
Oxford ..	30.15	51	NW	2	b	30.40	+7.9	47	45	-6	Z	0	bcw	*	62	39	0.01		
Cambridge ..	30.07	55	N	3	bc	30.40	+7.9	48	45	-7	W	1	0	*	65	36	0.01		
Yarmouth ..	29.97	56	N	4	cq	30.35	+7.7	53	50	-2	NW	3	c	4	60	50	0.03		
Cuxhaven ..	29.77	59	NW	2	c	30.22	+5.9	58	57	-1	NW	5	c	*	63	55	-		
Berlin ..	29.74	66	SW	1	0	30.13	+4.1	59	55	-8	NW	3	0	*	77	55	-		
Wiesbaden ..	*	*	*	*	*	30.29	+4.9	56	54	-8	Z	0	c	*	68	50	0.04		
Munich ..	30.07	61	W	2	r	30.31	+3.6	57	56	-5	W	1	0	*	79	55	0.28		
FRANCE & NETHERLANDS.																			
The Helder ..	29.92	57	NW	5	0	30.29	+7.1	57	51	-4	N	3	0	2	63	55	0.24		
Brussels ..	*	*	*	*	*	?	?	55	52	-6	NNE	1	0	*	68	53	0.12		
Cape Gris Nez ..	29.94	57	NW	5	c	30.33	+7.2	55	51	?	N	4	0	4	63	54	0.20		
Paris ..	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	
Brest ..	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	
Lorient ..	30.12	61	NW	7	bc	30.36	+6.8	54	53	-5	N	3	0	5	63	54	-		
Rochefort ..	30.17	64	NW	8	bc	30.34	+4.1	55	54	-9	E	4	0	2	68	52	-		
Belfort ..	30.02	59	W	3	c	30.25	+3.8	56	54	-11	W	1	c	*	7	47	0.32		
Lyons ..	30.10	59	E	1	bc	30.26	+4.0	55	52	-5	NW	4	0	*	71	45	0.05		
Nice ..	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	
Perpignan ..	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	
Biarritz ..	30.16	64	N	4	r	30.28	+2.5	59	56	-5	SE	3	r	5	72	57	0.12		
Corunna ..	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	
Lisbon ..	30.04	64	NW	9	b	30.07	0.0	64	56	+1	N	5	0	5	73	61	-		

For Explanation of Columns, see p. 4.



# WEATHER CHARTS

for 8 a.m. on

Thursday, 8<sup>th</sup> September.

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 —

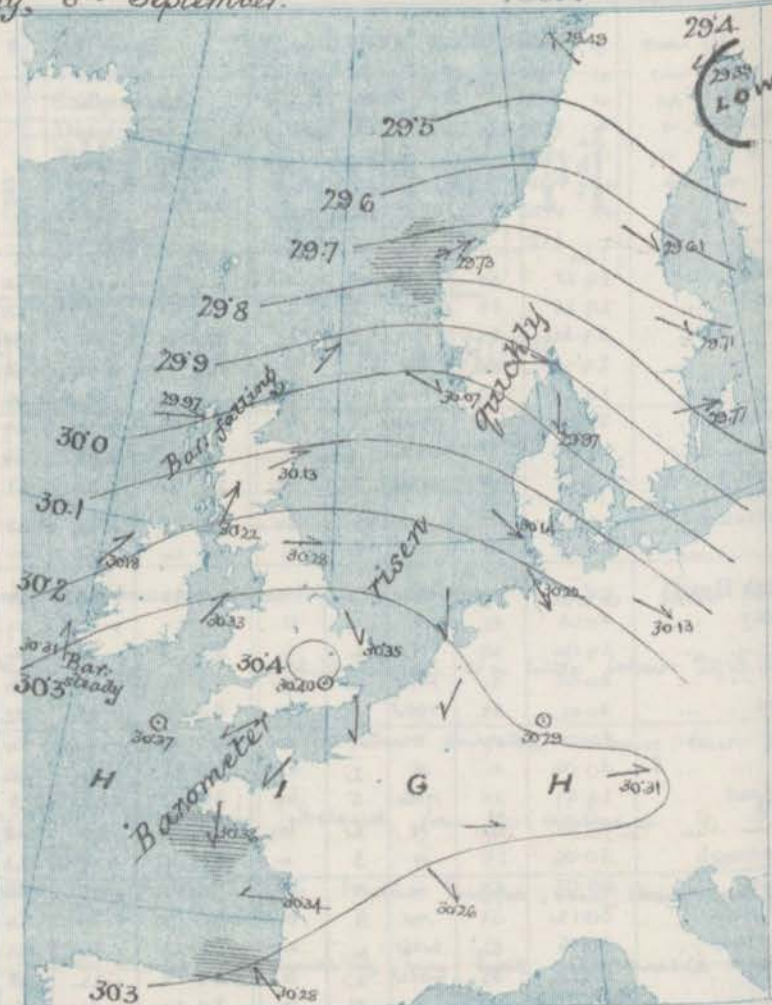
→ = forces above 10, → = forces 6 to 10,  
 → = forces 5 to 7, → = forces 1 to 4,  
 ⊙ = dead calm.

**Sea Disturbance** — where considerable is shown thus  
 [Symbol] = Rough, [Symbol] = High

## MEAN HEIGHT of the BAROMETER

at 8 a.m. for the month of September.  
 During the 10 Years 1877—1886.

STATIONS.	MEAN READINGS.
	in.
Sumburgh Head	29.758
Stornoway	29.781
Wick	29.786
Nairn	29.812
Aberdeen	29.815
Leith	29.851
Shields	29.876
York	29.913
Ardrossan	29.858
Donaghadee	29.875
Holyhead	29.903
Liverpool	29.910
Valencia	29.920
Roche's Point	29.923
Pembroke	29.924
Selly	29.960
Hurst Castle	29.978
Dover	29.955
LONDON	29.956
Oxford	29.943
Cambridge	29.943
Yarmouth	29.928



## 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 September

STATIONS	TEMPERATURE				RAINFALL (Inches)
	Daily Max	Daily Min.	AT 8 A.M.	AT 8 P.M.	
Sumburgh Head	55.2	46.2	50.6	49.0	3.48
Stornoway	55.9	45.4	51.0	49.7	4.13
Wick	57.5	45.3	51.0	49.7	2.66
Nairn	59.0	47.0	51.3	48.8	2.73
Aberdeen	58.0	47.1	52.0	49.6	3.22
Leith	62.7	47.8	53.5	51.1	2.47
Shields	60.0	49.0	53.4	51.2	2.58
York	63.2	47.3	53.1	51.2	2.98
Ardrossan	59.9	49.9	53.6	51.0	3.57
Donaghadee	59.5	49.2	53.8	52.1	3.22
Holyhead	61.1	53.1	55.0	53.4	3.35
Liverpool	61.3	51.2	54.7	53.0	3.56
Valencia	61.9	52.0	56.4	53.9	4.87
Roche's Point	62.0	51.7	55.4	53.2	4.39
Pembroke	60.4	53.4	56.3	53.9	3.89
Selly	61.9	55.2	58.5	56.5	3.69
Hurst Castle	64.4	52.9	57.9	56.3	3.35
Dover	63.1	52.8	58.3	55.4	2.86
LONDON	65.9	49.3	56.4	54.0	2.59
Oxford	63.8	49.0	54.2	52.9	2.91
Cambridge	65.8	48.6	54.6	52.9	2.48
Yarmouth	62.3	50.8	56.3	54.4	3.17

Notes — The Temperature means are for the 10 years 1877—86, the Rainfall means are mainly those for the 20 years 1866—85.





## GENERAL SITUATION AT 8 A.M.

### PRESSURE

Highest, 30.3 ins. to 30.4 ins., in an anticyclone lying over the greater part of Ireland, England and France, as well as over South Germany.  
 Lowest, 29.4 ins.; and less, over the northern parts of the Gulf of Bothnia.  
 Gradients for W<sup>2</sup> winds rather steep over the coast of Norway.

### TEMPERATURE

Highest, 64° at Limerick, 60° at Scilly, Plover Point and Jersey, and 59° at Nisby, Berlin, and Biarritz.  
 Lowest, 43° at Loughborough, 44° at Humber and, 45° at York and 47° at Christiansund and Oxford.  
 It is now rising decidedly in the north and northwest.

### WIND

Moderate on fresh from SW over Scotland and the north of Ireland.  
 Moderate to strong from W. or NW. over Scandinavia and Denmark, with a gale at Christiansund.  
 Light or moderate from E. or NE. over the Channel and Bay of Biscay.

### WEATHER

Fine over the greater part of our Islands and their immediate neighbourhood, but dull in Sweden, Germany and the Netherlands, with rain at Christiansund and Sumburgh Head.  
 [Showers fell yesterday, at our eastern, southern, and most of the Continental stations, and a thunderstorm was experienced at Huel Castle.]

### SEA

Rough at Christiansund and rather rough at Lorient and Biarritz, but moderate to smooth elsewhere.

### PROBABLE CHANGES IN SYSTEM NOW PREVALENT

In the course of the night the barometer has begun to fall again on our extreme northwest coast, while the wind there has backed to SW. or S. A depression is probably advancing from the Atlantic, and although its size and depth are at present unknown freshening SW<sup>1</sup> winds and unsettled weather are probable in the north and northwest generally.

## FORECASTS

for the 24 hours ending at NOON on 9<sup>th</sup> Sept

1887.

### DISTRICTS.

### FORECASTS.

0	SCOTLAND NORTH	SW <sup>2</sup> winds, freshening; fair to unsettled and some rain.
1	SCOTLAND EAST	-----D°-----D°-----D°-----
2	ENGLAND N.E.	W <sup>2</sup> winds, light to fresh; fair generally.
3	ENGLAND EAST	Same as N° 5
4	MIDLAND COUNTIES	Same as N° 5.
5	ENGLAND SOUTH	Variable or W <sup>2</sup> airs; fine generally, cold and foggy in night or early morning.

### DISTRICTS.

### FORECASTS.

6	SCOTLAND WEST	SW <sup>2</sup> winds, increasing in force; fair to unsettled and some rain.
7	ENGLAND N.W.	W <sup>2</sup> and SW <sup>2</sup> winds, moderate; fair generally.
8	ENGLAND S.W.	Variable breezes, finally SW <sup>2</sup> fine generally.
9	IRELAND NORTH	Same as N° 6
10	IRELAND SOUTH	Same as N° 0
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 ...	29.65	54	46	W 4	c	4	Holyhead ...	30.00	56	50	N 5	bc	4
Sumburgh Head ...	29.80	51	46	NW 2	bc	2	Valencia ...	30.17	60	53	N 4	bc q	4
Stornoway ...	29.99	53	49	W 3	c	3	Scilly ...	29.99	59	56	N 6	c	6
Aberdeen ...	29.93	54	48	N 5	c	3	Dungeness ...	29.77	63	58	W 3	c	2
Shields ...	29.94	53	48	N 5	c	5	London ...	29.85	60	55	NW 4	cp	*
Ardrossan ...	29.98	58	50	W 3	b	2	Yarmouth ...	29.78	57	55	N 2	cp	3
Malin Head ...	30.06	54	48	N 3	o	3	Jersey ...	29.95	62	56	NW 5	c	4
Mullaghmore ...	30.09	57	50	NW 5	cv	3	Rocheport ...	30.08	68	60	NW 8	c	3
Belmullet ...	30.14	55	51	NW 4	o	*							

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

The reports for yesterday morning showed that pressure then varied from about 30 ins: over SE and S-Europe from 30.1 ins: over Portugal, and from 29.9 ins: off the coast of Ireland to about 29.3 ins: in a depression lying over Lapland, to about 29.8 ins: in a V-shaped subsidiary extending thence across the North Sea to the east of England, and to 29.8 ins: in a shallow local disturbance which lay over Algeria. Thus, while SW breezes still held over the Baltic, Germany, and the greater part of France, accompanied by mild and slightly showery weather, N<sup>ly</sup> and NW<sup>ly</sup> winds had set in over the northern and western part of the British Isles, the mouth of the Channel and Brittany, and were accompanied by cold weather and some showers, but with a tendency to improve. Over the Western Mediterranean there was a cyclonic circulation of light winds, with fine weather while in eastern and south-eastern Europe the weather was fine and the wind light and variable. Temperature was giving way in the west and northwest, and varied from upwards of 80° over Algeria and some parts of the Mediterranean to less than 60° over Brittany and the British Isles generally, and to less than 50° over the N. of Scotland and W. of Norway. The highest individual values were 84° at La Calle, and 82° at Aumale (Algeria), 82° at Cagliari, 79° at Brindisi, Malta, and Barcelona 77° at Palma, 75° at Marseilles, and 74° at Genoa, Trieste and Languair, the lowest 46° at Sumburgh, 44° at Kavi, Wick and Stornoway, 48° at Aberdeen, and 49° at Christiansund. Later in the day N<sup>ly</sup> and NW<sup>ly</sup> winds became still more general, but fell light, at night, and a slight frost occurred on the ground at the inland stations of England, with local fogs.

### 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 9<sup>th</sup> September 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 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 ..	29.46	50	2	0	C	29.94	+ .48	50	48	- 5	N	2	0	*	57	48	0.12	
Hernösand ..	29.81	48	NW	6	b	30.08	+ .27	49	46	+ 5	W	2	0	*	59	41	-	
Stockholm ..	30.08	51	SW	2	b	30.19	+ .11	54	50	+ 1	NW	4	0	*	59	46	-	
Widby ..	30.13	52	NW	4	b	30.23	+ .10	55	52	- 4	NW	4	0	*	61	55	-	
Bodö ..	29.73	48	NW	4	bc	29.85	+ .12	49	48	+ 3	SW	2	0	1	60	46	0.04	
Christiansund...	29.86	50	SSE	2	0	29.75	+ .11	53	49	+ 6	SSE	3	0	3	?	?	0.12	
Skudesnaes ..	30.11	54	SW	4	bc	29.96	+ .15	57	54	+ 4	SSE	8	1	5	59	52	-	
Christiania Fjord (Fæder) ..	30.08	57	N	5	b	30.10	+ .02	56	52	+ 5	SW	5	0	5	59	?	-	
Skagen (The Scaw)	30.16	53	NW	2	b	30.18	+ .02	54	51	+ 1	NW	3	0	3	59	50	-	
Faßø ..	30.30	54	NW	4	bc	30.26	+ .04	58	51	+ 4	NW	3	0	*	59	54	-	
BRITISH ISLANDS.																		
Sumburgh Head	29.82	53	S	2	0	29.56	- .26	54	53	+ 4	SW	3	0	4	55	42	0.34	
Stornoway ..	29.69	45	SW	8	TU	29.56	- .13	55	55	- 2	SW	7	12	7	58	52	0.40	
Wick ..	29.85	54	SW	4	T	29.60	- .25	57	54	+ 3	SW	3	0	1	60	52	0.08	
Nairn ..	29.91	57	NW	2	C	29.66	- .25	59	55	+ 3	NW	3	0	2	61	56	0.08	
Aberdeen...	30.01	57	SW	4	0	29.74	- .27	60	57	+ 8	SW	5	0	2	65	51	0.07	
Leith ..	30.07	56	NW	3	0	29.85	- .22	59	56	+ 5	W	5	0	*	63	54	-	
Shields ..	30.17	56	SW	2	C	29.96	- .21	58	54	+ 4	SW	4	0	2	60	50	0.12	
Spurn Head ..	30.26	59	SW	3	b	30.15	- .11	55	52	+ 2	SW	4	0	3	63	49	-	
York ..	30.25	59	SW	1	bc	30.10	- .15	54	51	+ 4	S	2	0	*	63	45	-	
Loughborough	30.29	58	SW	2	b	30.18	- .11	54	51	+ 11	SW	3	0	*	64	43	-	
Ardrossan ..	30.06	57	SSE	6	0	29.85	- .21	57	56	+ 1	SW	5	1	5	60	49	0.10	
Malin Head ..	29.87	53	SW	7	OT	29.80	- .07	58	58	+ 4	SW	4	0.2	3	58	53	0.27	
Mullaghmore ..	29.95	55	SW	7	T	29.89	- .06	59	58	+ 4	SW	4	0.2	3	59	54	0.40	
Belmullet ..	29.93	58	SW	8	T	29.92	- .01	58	55	- 2	W	3	0	*	59	56	0.24	
Donaghadee ..	30.09	57	SW	3	C	29.92	- .17	57	57	+ 6	SW	5	0	3	62	50	0.13	
Barrow-in-Furness	30.18	58	SW	4	C	30.03	- .15	58	56	+ 6	S	7	0.0	*	60	52	0.04	
Liverpool (Bidston)	30.22	57	SW	2	0	30.08	- .14	57	53	+ 4	S	3	0	3	62	51	0.05	
Holyhead ..	30.19	56	SW	6	0.0	30.05	- .14	57	56	0	SW	6	0.0	5	62	55	0.04	
Parsonstown ..	30.15	56	SW	1	T	29.99	- .16	60	55	+ 9	SW	2	0	*	61	49	0.11	
Valencia ..	30.11	58	S	7	T	30.02	- .09	60	59	+ 2	NW	2	0	3	60	57	0.38	
Roche's Point...	30.21	58	SW	4	0	30.04	- .17	58	58	+ 6	SW	4	1.0	4	60	50	0.16	
Pembroke ..	30.27	57	SW	4	C	30.13	- .14	57	57	+ 3	SW	5	0.0	4	62	54	-	
Seilly ..	30.30	58	SW	2	0	30.18	- .12	58	57	- 2	SW	4	0	4	62	56	0.01	
Prawle Point ..	30.34	57	SW	2	b	30.25	- .09	57	54	- 3	S	3	0	3	62	52	-	
Jersey ..	30.35	63	SSE	1	bm	30.29	- .06	60	57	0	SSE	2	0	2	68	49	-	
Hurst Castle ..	30.25	59	SW	1	b	30.25	- .01	59	55	+ 5	SW	3	0	1	63	51	-	
Dungeness ..	30.33	60	N	1	b	30.26	- .07	48	47	- 2	N	1	0	1	63	42	-	
London ..	30.34	54	SSE	1	b	30.26	- .08	54	50	+ 5	S	2	0	*	61	47	-	
Oxford ..	30.31	54	SW	2	b	30.23	- .08	53	50	+ 6	S	3	0	*	63	46	-	
Cambridge ..	30.32	54	S	1	b	30.24	- .08	53	50	+ 5	SW	2	0	*	65	45	-	
Yarmouth ..	30.33	57	SW	3	bv	30.25	- .08	54	51	+ 1	SW	2	0	3	60	48	-	
Cuxhaven ..	30.36	57	N	2	b	30.35	+ .01	54	53	- 4	SW	2	0	*	59	52	-	
Berlin ..	30.34	57	NW	3	b	30.37	+ .03	54	49	- 5	W	0	0	*	64	50	-	
Wiesbaden ..	*	*	*	*	*	30.31	+ .02	57	52	+ 1	W	0	0	*	64	50	-	
Munich ..	30.33	53	NW	2	T	30.28	- .05	53	52	- 4	NW	5	1	*	59	52	0.75	
FRANCE & NETHERLANDS.																		
The Helder ..	30.34	54	W	1	b	30.27	- .07	53	49	- 4	S	1	0	1	63	48	-	
Brussels ..	*	*	*	*	*	30.32	?	52	50	- 3	NW	1	0	*	60	46	-	
Cape Gris Nez...	30.34	58	NW	1	b	30.29	- .05	54	52	- 1	SW	3	0	0	64	50	-	
Paris ..	30.33	57	N	1	b	30.33	?	46	45	?	NW	1	0	*	66	43	-	
Brest ..	30.32	60	N	4	0	30.28	- .04	56	53	?	W	0	0	3	73	50	-	
Lorient ..	30.34	62	W	3	C	30.28	- .06	57	54	+ 3	SSE	1	0	3	68	54	-	
Rochefort ..	30.32	65	WNW	5	b	30.32	- .02	65	54	0	E	4	0	2	70	50	-	
Belfort ..	30.22	60	W	1	C	30.22	- .03	57	47	- 2	E	1	0	*	61	49	-	
Lyons ..	30.25	62	N	3	bc	30.24	- .02	54	52	- 1	NW	1	0	*	66	52	-	
Nice ..	30.25	69	W	0	C	30.08	- .17	69	68	?	W	0	0	2	74	63	0.04	
Perpignan ..	30.18	67	NW	4	0	30.17	- .01	61	55	?	NW	1	0	*	73	55	-	
Biarritz ..	*	*	*	*	*	30.23	- .04	61	58	- 3	NW	1	0	4	68	50	-	
Corunna ..	30.02	40	NW	8	b	30.04	- .02	66	64	+ 2	NW	5	0	2	79	64	-	
Lisbon ..	*	*	*	*	*	30.04	- .03	66	64	+ 2	NW	5	0	2	79	64	-	



# WEATHER CHARTS

for 8 a.m. on

FRIDAY 9<sup>th</sup> SEPTEMBER

1887.

## BAROMETER, WIND & SEA.

(Explanation of Map)

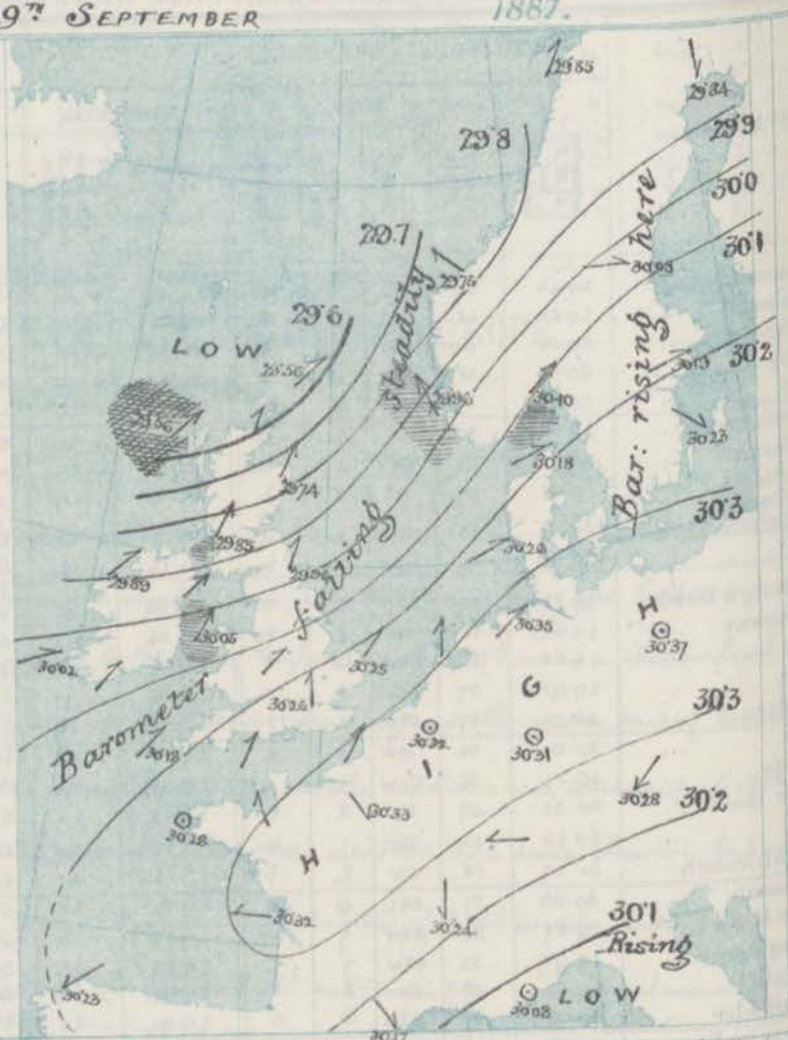
**Barometer** — Isobars are drawn for each tenth of an inch. Changes since previous morning are stated in words.  
**Wind** — Arrows show the prevalent winds. They fly with the wind and their barbs and feathers refer to force thus —  
 — force above 10, — force 8 to 10,  
 — force 5 to 7, — force 1 to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

STATIONS.	MEAN READINGS
	in.
Sumburgh Head	29.758
Stornoway	29.781
Wick	29.786
Nairn	29.812
Aberdeen	29.815
Leith	29.851
Shields	29.876
York	29.913
Ardrossan	29.888
Donaghadee	29.875
Holyhead	29.903
Liverpool	29.910
Valencia	29.929
Roche's Point	29.928
Pembroke	29.924
Scilly	29.960
Hurst Castle	29.978
Dover	29.955
LONDON	29.956
Oxford	29.948
Cambridge	29.943
Yarmouth	29.928



## 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 September.

STATIONS	TEMPERATURE				RAINFALL (Inches)
	Daily Max.	Daily Min.	Average Dry	Average Wet	
Sumburgh Head	55.2	40.2	50.6	40.0	3.48
Stornoway	55.9	45.4	51.0	40.7	4.12
Wick	57.5	45.8	51.6	40.7	2.66
Nairn	59.0	47.0	51.3	45.8	2.73
Aberdeen	58.0	47.1	52.0	45.0	3.22
Leith	62.7	47.8	53.6	51.1	2.47
Shields	60.0	40.0	53.4	51.2	2.68
York	63.2	47.3	53.1	51.2	2.98
Ardrossan	59.9	40.9	53.6	51.0	3.87
Donaghadee	59.5	40.2	53.3	52.1	3.22
Holyhead	61.1	53.1	55.6	53.4	3.35
Liverpool	61.3	51.2	54.7	52.0	3.26
Valencia	61.9	52.0	56.4	53.9	4.87
Roche's Point	62.0	51.7	55.4	53.2	4.39
Pembroke	60.4	53.4	56.3	53.9	3.99
Scilly	61.9	55.2	58.5	56.5	3.69
Hurst Castle	64.4	52.9	57.8	56.3	3.35
Dover	63.1	52.8	58.3	55.4	2.98
LONDON	66.9	49.3	58.4	54.0	2.59
Oxford	63.8	49.0	54.2	52.4	2.91
Cambridge	65.8	48.5	54.5	52.9	2.48
Yarmouth	62.3	50.8	56.3	54.4	3.17

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 in: and upwards, in an anticyclonic band extending from the southern shore of the Baltic to the W. of France.  
Lowest, 29.6 in: and less, in a depression lying off the north of Scotland.  
Gradients for SW winds rather steep over the North Sea and the northern parts of our Islands.

## TEMPERATURE

Highest, 69° at Nice, 66° at Lisbon, 61° at Lerpignan, and 60° at Aberdeen, Harrogate, Valencia and Jersey.  
Lowest, 46° at Paris, 43° at Dungeness, and 49° at Rost, Christiansund, and Hornsund.

## WIND

S. or SW. in our Islands, light or moderate in the S. and SE. strong in the N. and NW.  
SE in the west of Norway; E in the west of France, variable in the south of France.  
[Moderate to fresh SW gales were experienced last night on our northern and extreme western coasts.]

## WEATHER

Fair or fine in Sweden, Denmark, North Germany, the east and south of England, and the greater part of France.  
Dull elsewhere with rain at many of our western and northwestern stations, as well as at Munich and Kiev.  
[In the course of the past 24 hours rain has fallen in the west and north generally.]

## SEA

High at Lornoway, and rather rough at Ardnam and Holyhead, but moderate to smooth elsewhere.

## PROBABLE CHANGES IN SYSTEM NOW PREVALENT

At Valencia the barometer is apparently rising, but at Lornoway a new fall has set in since 3 am.  
Conditions are therefore still unsettled and further disturbances are likely to approach our north-west coast shortly.

## FORECASTS

for the 24 hours ending at NOON on 10<sup>th</sup> SEPT<sup>r</sup>

1887.

### DISTRICTS.

### FORECASTS.

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

### DISTRICTS.

### FORECASTS.

6	SCOTLAND WEST	Same as N°0
7	ENGLAND N.W.	Same as N°0
8	ENGLAND S.W.	Stand, SW <sup>2</sup> winds, increasing in force; dull, some rain.
9	IRELAND NORTH	Same as N°0
10	IRELAND SOUTH	SW <sup>2</sup> winds, moderate to S <sup>2</sup> strong; unsettled, some rain.
WARNINGS		The S. cone was hoisted yesterday in districts 0 to 2 and 6 to 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.	Wva.	Sea.		Bar.	Dry.	Wet.	Wind.	Wva.	Sea.
Skudesnaes ...	30.13	59	50	W 4	e	3	Holyhead ...	30.27	60	53	SEW 5	bcq	4
Sumburgh Head ...	29.82	58	53	SW 3	o	3	Valencia ...	30.22	59	56	S 6	o u	6
Stornoway ...	29.88	56	56	SW 7	tu	6	Scilly ...	30.35	62	58	W 1	bc	4
Aberdeen ...	30.06	58	55	SSW 3	b	1	Dungeness ...	30.36	61	55	NNE 1	b	1
Shields ...	30.21	59	51	SSW 3	c	3	London ...	30.36	59	51	W 1	bm	*
Ardrossan ...	30.15	57	52	SSW 6	o	5	Yarmouth ...	30.36	59	52	SSE 1	bc	4
Malin Head ...	30.02	55	54	SW 6	o	4	Jersey ...	30.37	68	58	E 2	bc	2
Mullaghmore ...	30.09	56	54	S 6	o T	5	Rochefort ...						
Belmullet ...	30.03	58	56	SW 7	T	4							

GENERAL REMARKS ON THE WEATHER OVER EUROPE

DURING THE PAST 24 HOURS.

Yesterday morning's reports showed that a great increase of pressure had occurred over Western Europe during the preceding 24 hours, and that readings varied from between 30.3 ins. and 30.4 ins. over the Bay of Biscay, the north of France and the south of the British Isles, and from 30.1 ins. and more over the south of Russia to rather below 29.3 ins. over Lapland, and to between 29.7 ins. and 29.9 ins. over the southern half of the Baltic. Light to moderate NW<sup>3</sup> and N<sup>1</sup> breezes had set in over the British Isles and France, accompanied by fine dry cold weather, but fog locally, and similar winds with less settled weather were reported over Germany and the Baltic; in Russia, however, the wind was SW<sup>1</sup> and mild. Temperature ranged from between 80° and 90° over some parts of Algeria and from between 68° and 82° over the Mediterranean to between 50° and 60° over Northern Europe, but to less than 50° over Scandinavia. In the previous night frost had occurred on the grass over the inland parts of the British Isles and France. The highest 8 a.m. readings reported were 86° at La Halle and 81° at Algiers, 82° at Cagliari, 79° at Malta, 77° at Brindisi and Trieste, 75° at Palermo, 74° at Langunair, and 73° at Constantinople, Monaco, Livorno and Genoa, but only 70° at Nice, and 66° at Toulon. The lowest were 43° at Loughborough, 44° at Hemörand, 45° at York, 46° at Bodo, 47° at Christianmünd, Oxford, and Limoges, 49° in London and 51° at Paris.

Later in the day a large depression approached the extreme NW. coasts of the British Isles, and the wind there backed to SW. and S. again, with squalls and showers, but in the east and south the weather remained fine.

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 10<sup>th</sup> September 1887.

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

		+ YESTERDAY EVENING.					8 A.M. TO DAY.										PAST 24 HOURS.		
STATIONS.		Barometer at 32° F. and Sea Level.	Temp. in Shade.	WIND.		Weather.	BAROMETER.		SHADE TEMP.			WIND.		Sea. (0 to 9.)	Weather.	SHADE TEMP.		Amount of Rainfall.	
				Dir.	Force. (0 to 12.)		Reading at 32° F. and Sea Level.	Difference from 8 a.m. yesterday.	Dry.	Wet.	Difference from 8 a.m. yesterday.	Dir.	Force. (0 to 12.)			Max.	Min.		
SCANDINAVIA.																			
Haparanda ..	29.97	48	X	0	b	29.95	+1.1	49	49	-1	E	2	0	*	57	45			
Hernösand ..	29.94	54	SSW	4	b	29.89	-1.9	52	49	+3	SEW	4	0	*	59	41			
Stockholm ..	30.17	53	X	0	b	30.06	-1.3	55	50	+1	S	2	7	*	63	45			
Wisby ..	30.23	53	SEW	4	c	30.06	-1.7	57	52	+2	SW	2	6	*	66	52			
Bodo ..	29.78	54	ENE	2	bc	29.60	-2.5	57	54	+8	ESE	6	0	3	?	48			
Christiansund...	29.56	57	ENE	4	0	29.49	-2.6	51	49	-2	WSW	1	0	2	61	48			
Skudesnaes ..	29.72	56	S	8	T	29.61	-3.5	54	48	-3	SSW	4	0	5	57	?			
Christiania Fjord (Furder)	29.99	58	S	5	0	29.70	-4.0	56	53	0	SSC	7	7	6	59	55			
Skagen (The Seaw)	30.02	56	SW	4	0	29.75	-4.3	56	53	+2	SSW	7	0	4	59	54			
Faño ..	30.05	53	S	4	c	29.78	-4.8	59	56	+1	S	6	0	*	63	54			
BRITISH ISLANDS.																			
Sumburgh Head	29.47	49	SW	2	c	29.22	-3.4	46	44	-8	WSW	3	0	5	55	41	0.76		
Stornoway ..	29.59	49	W	6	cqhp	29.55	-0.1	52	50	-3	HW	7	7	6	56	44	0.66		
Wick ..	29.59	53	NW	3	bc	29.46	-1.4	50	48	-7	HW	6	bc	2	59	42	0.05		
Nairn ..	29.65	52	SW	1	b	29.56	-1.0	52	49	-7	W	6	bc	4	61	46	0.22		
Aberdeen...	29.65	55	NW	3	bc	29.60	-1.4	51	47	-9	WSW	4	0	1	61	41	0.12		
Leith ..	29.75	58	WSW	4	bc	29.73	-1.2	52	48	-7	W	5	bc	*	64	47	0.07		
Shields ..	29.78	61	SSW	5	cqhp	29.81	-1.5	54	48	-4	W	4	bc	2	65	45	0.09		
Spurn Head ..	29.97	62	SSW	5	c	29.89	-2.6	54	51	-1	W	4	b	2	66	51	0.03		
York ..	29.94	61	S	3	c	29.90	-2.0	52	49	-2	W	3	b	*	68	49	0.02		
Loughborough	30.03	60	SW	4	0	29.99	-1.9	54	50	0	W	3	b	*	67	47	0.13		
Ardrossan ..	29.78	56	W	6	cqhp	29.81	-0.4	52	49	-5	W	7	bc	5	59	50	0.18		
Malin Head ..	29.82	54	NW	4	cqhp	29.85	+0.5	53	48	-5	WSW	5	cqhp	6	58	49	0.13		
Mullaghmore ..	29.94	56	WSW	6	c	30.00	+1.1	54	48	-5	NW	7	cqhp	6	60	51	0.08		
Belmullet ..	30.00	57	WSW	4	b	30.06	+1.4	53	48	-3	NW	4	0	*	59	41			
Donaghadee ..	29.88	56	WSW	4	T	29.94	+0.2	50	48	-7	SW	4	bc	2	63	49	0.12		
GERMANY.																			
Barrow-in-Furness	29.86	59	SW	7	T	29.92	-1.1	54	49	-4	W	5	bc	*	59	42	0.07		
Liverpool (Biston)	29.91	61	SW	4	0	29.96	-1.2	54	48	-3	W	4	c	4	62	53	0.08		
Holyhead ..	29.93	58	SW	6	gm	30.00	-0.5	56	51	-1	WSW	6	b	6	59	51	0.03		
Parsonstown ..	30.00	59	Z	0	0	30.09	+1.0	52	48	-8	Z	0	c	*	65	47	0.02		
Valencia ..	30.10	59	WSW	3	cqgm	30.17	+0.5	57	53	-3	WSW	2	c	2	62	52	0.10		
Roche's Point...	30.03	60	NW	4	bc	30.13	+0.9	56	52	+2	WSW	3	bc	3	62	52	0.04		
Pembroke ..	30.03	59	SSW	5	T	30.08	-0.5	55	52	-2	NW	3	bc	2	59	53	0.03		
Seilly ..	30.12	60	SSW	6	spa	30.13	-0.5	58	57	0	N	2	cp	4	65	56	0.05		
Prawle Point ..	30.16	57	SW	4	bc	30.09	-1.6	58	57	+1	NW	2	0	2	60	55	0.02		
Jersey ..	30.20	64	WSW	2	bc	30.11	-1.8	60	59	0	WSW	4	cqgm	3	66	54			
Hurst Castle ..	30.16	60	WSW	4	c	30.04	-2.1	58	57	-1	WSW	2	c	2	65	55	0.08		
Dungeness ..	30.14	61	W	4	c	29.97	-2.9	60	60	+12	W	4	T	3	64	48	0.13		
London ..	30.13	60	SSC	2	c	30.00	-2.6	55	52	+1	NW	1	0	*	66	54	0.05		
Oxford ..	30.08	58	WSW	5	0	30.03	-2.0	54	52	+1	NW	1	0	*	66	50	0.10		
Cambridge ..	30.07	61	SSW	3	0	29.99	-2.5	55	52	+2	W	1	b	*	69	51	0.11		
Yarmouth ..	30.05	61	SSW	2	bc	29.93	-3.2	55	53	+1	WSW	3	bc	3	64	58	0.22		
Cuxhaven ..	30.20	59	SW	2	c	29.92	-4.3	54	52	0	SW	3	0	*	59	50			
Berlin ..	30.25	59	Z	0	0	30.09	-2.8	55	51	+1	SSC	2	c	*	64	50			
Wiesbaden ..	*	*	*	*	*	30.13	-1.8	52	50	-5	Z	0	b	*	68	48			
Munich ..	30.23	54	E	3	0	30.19	-0.9	54	53	+1	W	3	0	*	55	52	0.67		
FRANCE & NETHERLANDS.																			
The Helder ..	30.12	56	S	1	c	29.87	-4.0	58	56	+5	NW	7	T	3	61	52	0.08		
Brussels ..	*	*	*	*	*	30.02	-3.0	58	53	+6	SSW	4	0	*	63	52			
Cape Gris Nez...	30.16	61	WSW	4	c	29.93	-3.6	60	58	+6	WSW	7	0	5	64	52			
Paris ..	30.23	58	NE	1	bc	30.17	-1.6	50	48	+4	SW	1	b	*	66	46			
Brest ..	30.18	61	SW	3	bc	30.17	-1.1	57	55	+1	N	5	m	2	75	50	0.35		
Lorient ..	30.24	60	WSW	1	c	30.20	-0.8	60	57	+3	W	4	bc	4	68	54			
Rochefort ..	30.24	68	NW	4	0	30.21	-1.1	57	55	+2	ENE	3	c	2	79	52			
Belfort ..	30.19	59	E	1	b	30.12	-1.0	58	52	+4	E	1	b	*	68	53			
Lyons ..	30.17	62	NE	2	0	30.15	-0.9	54	53	0	WSW	1	0	*	66	52			
Nice ..	30.03	64	E	1	b	30.00	-0.8	68	65	-1	Z	0	b	1	81	61			
Perpignan ..	30.11	?	N	3	b	30.13	-0.4	59	56	-2	N	1	bc	*	79	51			
Biarritz ..	30.12	68	NE	8	b	30.15		61	58		SE	3	b	1	70	57			
Corunna ..	*	*	*	*	*														
Lisbon ..	30.03	70	WSW	8	b	30.06	+0.2	64	55	-2	NE	1	b	2	82	61			

For Explanation of Columns, see p. 4.



# WEATHER CHARTS

for 8 a.m. on

Saturday, 10<sup>th</sup> September

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 6 to 10;  
→→ = forces 5 to 6; → = forces 1 to 4;  
○ = dead calm.

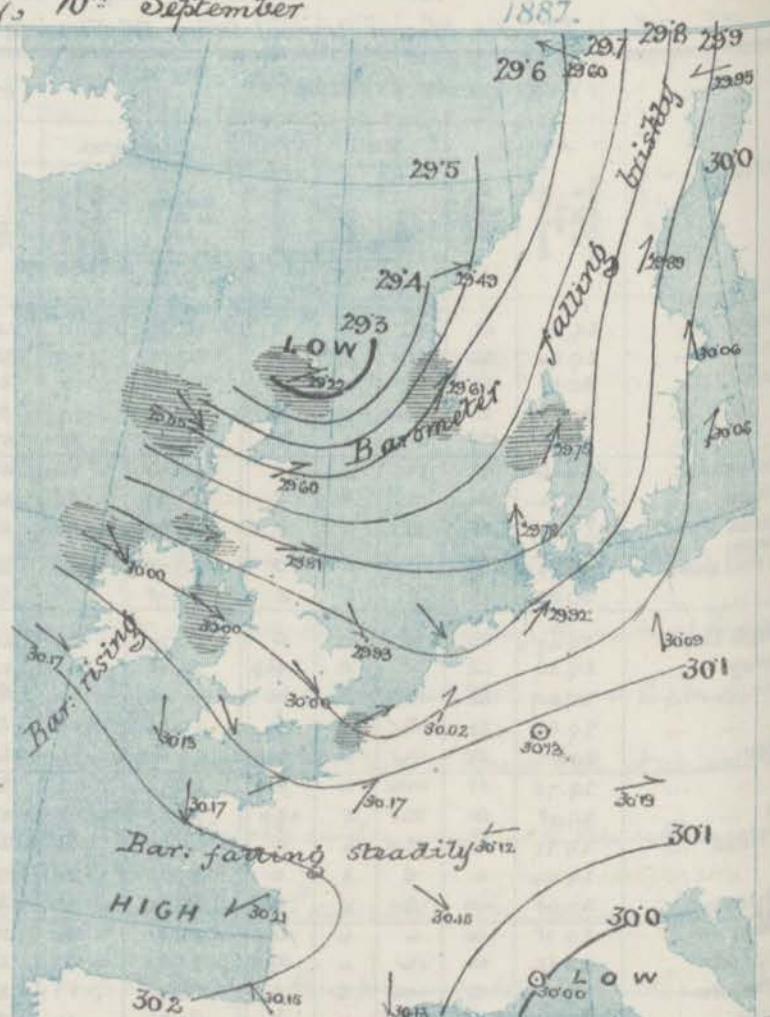
**Sea Disturbance** — where considerable is shown thus

■ = Rough. ■ = High.

## MEAN HEIGHT of the BAROMETER

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

STATIONS.	MEAN READING.
Sumburgh Head	29.758
Stornoway	29.781
Wick	29.786
Nairn	29.812
Aberdeen	29.815
Leith	29.851
Shields	29.876
York	29.913
Ardrossan	29.858
Donaghadee	29.875
Holyhead	29.908
Liverpool	29.910
Valencia	29.920
Roche's Point	29.923
Pembroke	29.924
Scilly	29.960
Hurst Castle	29.978
Dover	29.955
LONDON	29.956
Oxford	29.948
Cambridge	29.943
Yarmouth	29.928



## 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.

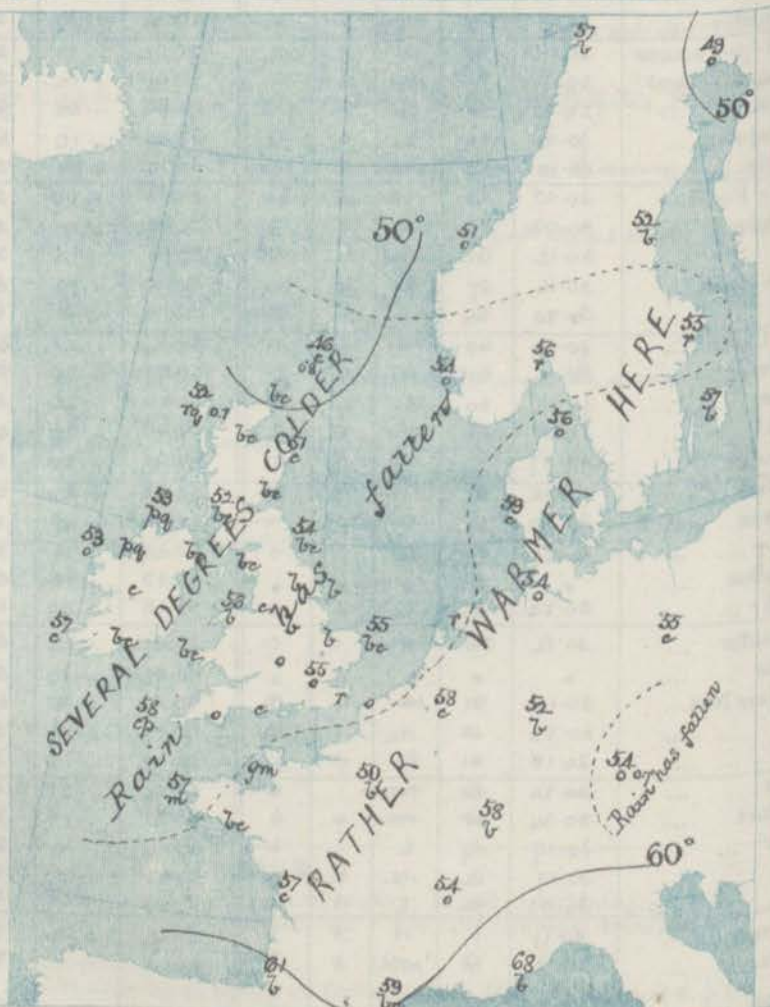
**Rainfall** — A dotted line separates the districts in which rain has fallen from those where there has been none. Falls of 0.5 in. or more, are quoted in figures.

## MEANS OF TEMPERATURE IN SHADE. AND RAINFALL.

for the month of September.

STATIONS	TEMPERATURE				RAINFALL (Inches)
	Daily Max.	Daily Min.	Average Day.	Average Night.	
Sumburgh Head	55.2	46.2	50.6	49.0	2.49
Stornoway	55.9	45.4	51.0	49.7	4.13
Wick	57.5	46.3	51.8	49.7	2.66
Nairn	59.0	47.0	53.0	48.5	2.78
Aberdeen	55.0	47.1	51.0	49.0	2.22
Leith	59.7	47.8	53.5	51.1	2.47
Shields	59.0	49.0	54.0	51.2	2.58
York	63.2	47.3	55.1	51.2	3.95
Ardrossan	59.9	49.9	54.9	51.0	2.57
Donaghadee	59.5	49.2	54.3	52.1	2.22
Holyhead	61.1	52.1	56.6	53.4	2.35
Liverpool	61.8	51.2	56.7	52.0	2.56
Valencia	61.9	52.0	56.4	53.9	4.87
Roche's Point	62.0	51.7	56.4	53.2	4.39
Pembroke	60.4	53.4	56.9	53.0	3.80
Scilly	61.9	56.2	59.0	56.5	2.59
Hurst Castle	64.4	52.9	57.9	56.3	2.35
Dover	63.1	52.5	57.8	55.4	2.86
LONDON	63.9	52.3	58.4	54.0	2.69
Oxford	63.5	49.0	56.2	52.4	2.91
Cambridge	65.8	48.3	57.5	52.9	2.43
Yarmouth	62.3	50.5	56.5	54.4	3.17

Note — The Temperature means are for the 10 years 1871—80, the Rainfall means are mainly those for the 10 years 1865—85.





# GENERAL SITUATION AT 8 A.M.

## PRESSURE

Highest, 30.2 in: and upwards, in an anticyclone lying over the Bay of Biscay and to the SW of our Islands; relatively high 30.0 in: and upwards over the Baltic.  
Lowest, 29.3 in: and less, in a depression lying in the neighbourhood of the Shetlands.

## TEMPERATURE

Highest, 68° at Aice, 64° at Lisbon, 61° at Helsingfors, and 60° at Jersey and Ouessant.  
Lowest, 46° at Lumbagh H., 49° at Hafslunda, 50° at Hiel, 51° at Christiansund and Aberdeen, and 52° at Helsingfors, Helsingfors, Helsingfors, and Helsingfors.

## WIND

Strong to a gale from NW on our NW. and extreme N. coast; moderate from the same quarter or from W. in other parts of our Islands.  
Strong from the S.W. on the eastern shore of the North Sea; light from the E. in the southwest of France.

## WEATHER

Showery and squally on our extreme NW. coast; rainy at Ouessant and Helsingfors.  
Fair in most other districts, but dull locally.  
[Since yesterday morning rain has fallen generally, the largest amount, being 0.8 in: at Lumbagh H. and 0.7 in: at Helsingfors and Helsingfors.]

## SEA

Rough on our NW. and extreme N. coast, as well as off the S. of Norway, but moderate to smooth elsewhere.

## PROBABLE CHANGES IN SYSTEM NOW PREVALENT

The depression noticed off the north of Scotland yesterday is now lying close to the Shetlands, and is growing deeper. In the meantime some subsidiary disturbances have moved eastwards across our Islands to the North Sea; and although the barometer is now rising in the west and south of our Islands it is falling at all our more northern and eastern stations.

The depression in the north seems likely to occasion a further increase of the NW. wind on our N. and NW. coasts, but in the southern part of the Kingdom no important change is probable excepting, perhaps, a slight fall in temperature.

## FORECASTS

For the 24 hours ending at NOON on 11<sup>th</sup> Sept 1887.

DISTRICTS.	FORECASTS.	DISTRICTS.	FORECASTS.
1 SCOTLAND NORTH	NW. strong winds or gales; squally, some rain.	6 SCOTLAND WEST	W. to NW. strong winds or gales; squally, some showers.
2 SCOTLAND EAST	W. to NW. winds, increasing in force, unsettled some showers.	7 ENGLAND N. W.	D. D. D.
3 ENGLAND N. E.	D. D. D.	8 ENGLAND S. W.	NW. winds, moderate; fair generally.
4 ENGLAND EAST	Same as No 5	9 IRELAND NORTH	Same as No 6
5 MIDLAND COUNTIES	Same as No 5	10 IRELAND SOUTH	Same as No 8
6 ENGLAND SOUTH	W. and NW. winds, moderate; fair generally, but possibly some showers.	WARNINGS	
		The S. cone is still flying in districts 0. 1. 2 6. 7. and 9.	

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	57	54	S 5	0	6	Holyhead ...	29.98	58	58	SSW 6	omg	6
Sumburgh Head ...	29.44	54	54	S 3	7	5	Valencia ...	30.08	60	58	HW 3	0	3
Stornoway ...	29.61	54	51	W 6	C	6	Scilly ...	30.14	63	61	SSW 5	0	4
Aberdeen ...	29.65	61	58	SSW 5	0	2	Dungeness ...	30.20	63	58	W 4	C	2
Shields ...	29.66	63	57	SSW 7	C	2	London ...	30.16	66	58	SSW 4	C	*
Ardrossan ...	29.76	58	56	W 5	0	4	Yarmouth ...	30.14	63	56	SW 3	0	3
Malin Head ...	29.80	54	54	HW 5	0	4	Jersey ...	30.24	64	59	HW 2	C	2
Mullaghmore ...	29.90	59	57	W 5	0	5	Rocheport ...	30.28	71	63	HW 4	C	2
Belmullet ...	29.95	59	57	HW 4	0	9							

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

The reports for yesterday morning showed that the depression which lay over Lapland on Thursday had moved eastwards to the White Sea, while a new and large low pressure system had appeared off the NW. coast of the British Isles, and was apparently travelling in a NE direction. Pressure consequently varied from 30.1 in. and upwards over Spain, France, Germany, and Central Russia and the southern half of the Baltic, and from 30.3 in. and more over the northern parts of France and Germany to 29.5 in. both off our extreme NW coast and on the shores of the White Sea. In a S<sup>2</sup> direction it decreased to 30.0 in. over Algeria. Strong SW winds prevailed over our northwestern districts and SW to W winds over Northern Europe with showery weather, while light variable breezes, and fine cool weather were reported over nearly all other parts of the Continent. In Algeria thunderstorms prevailed. Temperature was much lower over Russia than over Eastern Europe, and the differences between the readings over the northern and southern shores of the Mediterranean were large. The highest individual values were 84° at La Cella, 81° at Cagliari, 75° at Naples and Sanguinari, 72° at Palermo, 69° at Nice and 66° at Toulon. In the north of the Adriatic, however, readings were as high as 76° to 79°. The lowest values were 45° at Krasno, 43° at Rode, Christianund, and Hermand; also 46° at Paris and Li Man and 50° at Charleville.

Later in the day a subsidiary disturbance brought showery weather to the southern part of the British Isles and Channel, but the wind subsequently veered to NW. generally.

### 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 11<sup>th</sup> September

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	29.88	54	Z	0	r		29.87	-.08	52	52	+ 3	SE	2	o	*	55	41	—	
Hernösand	29.94	53	SSW	6	o		29.65	-.24	53	51	+ 1	SE	4	r	*	54	50	—	
Stockholm	29.82	55	SSE	2	o		29.72	-.34	53	50	- 2	SSW	2	bc	*	64	45	0.04	
Wisby	29.85	53	S	2	o		29.76	-.30	55	51	- 2	WNW	6	b	*	63	?	0.16	
Bodö	29.59	59	ENE	2	o		29.56	-.04	57	51	- 3	ENE	6	c	3	59	54	—	
Christiansund	29.32	50	NNE	4	c		29.32	-.17	51	48	0	WSW	1	c	3	54	45	0.12	
Skudesnaes	29.55	52	WSW	7	o		29.49	-.12	50	47	- 4	WSW	5	o	5	54	?	—	
Christiania Fjord (Fierder)	29.58	50	WSW	5	o		29.56	-.15	57	53	+ 1	SSW	5	c	4	?	54	0.59	
Skagen (The Scaw)	29.64	57	W	2	bc		29.59	-.16	53	51	- 3	WSW	3	b	2	57	48	0.39	
Fanö	29.78	54	WSW	4	c		29.72	-.06	50	53	- 3	WSW	5	c	*	59	52	0.47	
BRITISH ISLANDS.																			
Sumburgh Head	29.32	45	W	6	r		29.39	+ .17	47	45	+ 1	W	5	r	6	50	42	0.36	
Stornoway	29.64	50	W	6	rej		29.63	+ .08	48	47	- 4	NW	6	op	6	54	44	0.12	
Wick	29.54	50	W	6	bc		29.58	+ .12	45	44	- 5	NW	2	or	1	55	43	0.08	
Nairn	29.63	52	W	4	c		29.62	+ .06	49	47	- 3	WNW	3	c	2	58	47	0.02	
Aberdeen	29.65	55	W	2	c		29.62	+ .02	48	47	- 3	NNW	3	p	1	62	47	0.02	
Leith	29.75	54	W	5	c		29.66	-.07	49	48	- 3	W	1	r	*	61	48	0.15	
Shields	29.51	55	W	3	c		29.69	-.12	52	50	- 2	SW	2	r	2	59	50	0.03	
Spurn Head	29.90	56	W	5	c		29.81	-.08	58	52	+ 4	SW	4	bc	2	59	52	0.01	
York	29.92	55	W	3	o		29.76	-.14	53	51	+ 1	SW	2	r	*	62	50	—	
Loughborough	29.99	56	WNW	3	o		29.87	-.12	55	51	+ 1	WSW	3	o	*	61	50	—	
Ardrossan	29.82	54	W	6	bc		29.61	-.20	53	52	+ 1	ENE	1	cm	1	58	51	0.22	
Malin Head	29.87	53	WNW	4	op		29.66	-.19	52	52	- 1	N	3	op	3	55	50	0.35	
Mullaghmore	30.00	55	WNW	6	cm		29.73	-.27	57	55	+ 3	W	7	op	6	57	51	0.26	
Belmullet	30.05	55	WNW	5	o		29.82	-.24	55	54	+ 2	NW	5	c	*	57	53	0.12	
Donaghadee	29.94	54	SW	4	o		29.66	-.28	55	55	+ 5	W	4	r	2	63	49	0.06	
Barrow-in-Furness	29.93	55	W	5	o		29.71	-.21	54	53	0	S	7	r	*	57	53	0.18	
Liverpool (Bidston)	29.95	55	W	5	o		29.80	-.16	53	51	- 1	SW	3	r	3	58	53	0.01	
Holyhead	30.01	55	W	4	op		29.79	-.21	53	53	- 3	SW	6	rm	6	60	53	0.11	
Parsonstown	30.08	55	Z	0	c		29.83	-.26	59	57	+ 7	SW	1	c	*	58	50	0.04	
Valencia	30.10	58	WNW	3	bc		29.96	-.21	58	57	+ 1	W	3	rm	3	62	52	0.09	
Roche's Point	30.12	58	NW	4	bc		29.93	-.20	57	55	+ 1	W	4	o	3	62	50	—	
Pembroke	30.07	57	WNW	3	bc		29.93	-.15	57	55	+ 2	SW	5	og	4	58	55	—	
Scilly	30.14	58	NNW	3	c		30.05	-.08	58	57	0	W	5	c	4	62	55	—	
Prawle Point	30.11	56	WNW	2	c		30.02	-.07	57	54	- 1	W	5	bc	4	61	50	—	
Jersey	30.11	61	WNW	3	c		30.06	-.05	60	55	0	WNW	3	bc	3	64	50	0.01	
Hurst Castle	30.06	58	WNW	2	c		29.98	-.08	57	54	- 1	NW	3	bc	1	62	47	—	
Dungeness	30.01	58	WNW	1	bc		29.95	-.02	56	52	- 4	WNW	2	b	1	64	43	0.02	
London	30.02	57	NW	1	c		29.95	-.05	56	51	+ 1	WNW	2	bc	*	64	46	—	
Oxford	30.04	53	NW	2	c		29.93	-.10	54	50	0	WSW	2	b	*	61	47	—	
Cambridge	30.00	55	WSW	1	c		29.91	-.08	56	51	+ 1	SW	1	c	*	63	48	—	
Yarmouth	29.96	57	WNW	3	c		29.89	-.04	54	51	- 1	W	3	c	3	61	50	—	
Cuxhaven	29.86	55	WSW	4	r		29.85	-.07	55	53	+ 1	SW	4	o	*	50	53	0.46	
Berlin	29.92	60	Z	0	o		29.92	-.17	50	53	+ 1	WNW	1	c	*	70	54	0.04	
Wiesbaden	*	*	*	*	*		29.97	-.16	58	55	+ 6	W	1	bc	*	72	?	0.04	
Munich	30.13	59	SW	1	b		30.06	-.13	54	51	0	W	4	b	*	63	46	—	
FRANCE & NETHERLANDS.																			
The Helder	29.93	58	W	3	o		29.85	-.02	57	53	- 1	WSW	3	o	3	59	55	0.16	
Brussels	*	*	*	*	*		29.97	-.05	53	51	- 5	SW	3	c	*	62	50	0.20	
Cape Gris Nez	30.00	59	NW	5	o		30.00	+ .07	55	50	- 5	NW	5	bc	4	63	54	0.12	
Paris	30.06	65	WNW	4	r		30.06	-.11	51	50	+ 1	SW	1	c	*	72	48	—	
Brest	30.14	59	W	2	c		30.12	-.05	56	53	- 1	NW	1	b	3	73	50	—	
Lorient	30.15	62	N	4	c		30.11	-.09	55	53	- 5	NE	3	c	3	66	52	—	
Rochefort	30.21	66	NW	5	b		30.13	-.08	62	60	+ 5	WNW	4	o	3	73	57	—	
Belfort	*	*	*	*	*		*	*	*	*	*	*	*	*	*	*	*	*	
Lyons	30.11	63	N	1	b		30.07	-.08	55	53	+ 1	N	1	b	*	69	50	—	
Nice	29.99	67	SE	1	c		29.92	-.08	66	60	- 2	Z	0	b	1	77	59	—	
Perpignan	30.05	67	Z	0	bc		30.08	-.05	63	57	+ 4	W	3	b	*	83	57	—	
Biarritz	30.15	68	NE	5	b		30.14	-.01	59	55	- 2	Z	0	b	0	70	55	—	
Corunna	*	*	*	*	*		30.10	-.06	65	61	+ 3	NE	1	rm	5	72	54	—	
Lisbon	30.02	70	NW	4	b		30.05	-.01	68	59	+ 4	Z	0	bc	2	82	64	—	

For Explanation of Columns, see p. 4.



## 1887

(Explanation of Map)

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

$\Rightarrow$  forces above 10,  $\Rightarrow$  forces 8 to 10,  
 $\Rightarrow$  forces 5 to 7,  $\Rightarrow$  forces 1 to 4.

Sea Disturbance—where considerable is shown thus

 = Rough,  = High

at 8 a.m. for the month of September.  
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 September

[illegible]

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 the Bay of Biscay and the west of France, 29.9 ins: and upwards over the Gulf of Bohemia.  
Lowest, 29.4 ins: and less, in a large depression lying off the west of Norway.  
A shallow subsidiary depression is lying over the north-west of our Islands.

## TEMPERATURE

Highest, 68° at Lisbon, 66° at Nice, 65° at Comuna, 63° at Perpignan, 62° at Rochefort, and 60° at Jersey.  
Lowest, 45° at Wick, 47° at Lumburgh H<sup>d</sup>, 48° at Stromsø and Aberdeen, and 49° at Kairi and Leith.

## WIND

W<sup>1</sup> or NW<sup>1</sup> over Scotland, Ireland, and the west of France; strong at Stromsø and Mullaghmore.  
Moderate SW<sup>1</sup> over England, the Netherlands and the North Sea.  
Light S<sup>1</sup> or SE<sup>1</sup> over the greater part of Sweden.

## WEATHER

Rainy or showery at all our more northern stations as well as at Hernösand.  
Fair or fine in most other localities.  
Since yesterday morning rain has fallen in the west and north generally, and slight showers at some of our Stations.

## SEA

Rough off the north of Scotland, and also at Mullaghmore and Holyhead, rather rough at Huddersdale, moderate to smooth elsewhere.

## PROBABLE CHANGES IN SYSTEM NOW PREVALENT

The depression which lay near the Shetlands yesterday has travelled away in a northeasterly direction, and the barometer has risen on our northern coast. Owing, however, to a subsidiary disturbance which has appeared off the north of Ireland the barometer is now falling steadily at all the Irish and English stations, and less decidedly in France.

## FORECASTS

For the 24 hours ending at NOON on 13<sup>th</sup> Sept 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.

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.		
Skudeenæs ...	29.56	51	47	SSW	6	r	6	Holyhead ...	30.03	56	51	W	4	o	5
Sumburgh Head	29.32	48	45	W	7	op	6	Valencia ...	30.17	60	54	NW	3	bc	3
Stornoway ...	29.65	54	52	NW	6	qf	6	Scilly ...	30.14	60	55	NNW	2	c	4
Aberdeen ...	29.95	61	54	WNW	4	bc	1	Dungeness ...	30.00	61	59	W	1	o	2
Shields ...	29.79	58	51	W	5	bc	2	London ...	30.02	62	52	NW	3	bc	*
Ardrossan ...	29.83	56	52	W	7	bc	5	Yarmouth ...	29.95	60	54	WNW	3	bc	3
Malin Head ...	29.84	55	52	WNW	5	c	6	Jersey ...	30.11	63	59	W	4	o	3
Mullaghmore ...	30.02	54	50	WNW	6	opq	5	Rocheport ...	30.14	72	64	NNW	4	c	?
Belmullet ...	30.07	56	50	WNW	5	o	*								

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

The reports for yesterday morning showed that while the highest readings of all, 30.2 ins. and upwards, were reported in an anticyclone lying over the Bay of Biscay a long band in which readings exceeded 30.1 ins. extended thence across France, Germany, and Austria to central Russia. The lowest readings, 29.3 ins. and less, were found in a somewhat deep depression the centre of which lay close to the Shetlands. Strong NW breezes prevailed in our Islands, and SW or S breezes over Scandinavia, the Baltic and North Germany, but in South Europe the wind was light and variable. Rain was falling in the Netherlands, as well as some of the Spanish and Algerian stations, and passing showers in the north west of the United Kingdom, but elsewhere the weather was mostly fair. Temperature had risen a little over France, the south east of England, and the eastern shores of the North Sea but fallen elsewhere; readings ranged from 75° and upwards over Algeria and the southern parts of Spain, Italy, and Austria to 50° or less over Northern Russia and the extreme north of our Islands. The highest individual readings were 80° at La Calle, 79° at Brindisi and Rishia, 78° at Palermo and Aosta, and 77° at Algiers, Tunis, Lerina and Cagliari; the lowest were 44° at Uleaborg, 46° at Sumburgh Head, 48° at Archangel and 49° at Haparanda.

In the course of the day the depression near the Shetlands moved slowly north-eastwards, but some subsidiary disturbances advanced over the United Kingdom occasioning showers in many places.

### EXPLANATION OF COLUMNS GIVEN ON PAGE 1.

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

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

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# DAILY WEATHER REPORT.

for

Monday 12<sup>th</sup> September

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 ..	29.54	49	2	bc	29.90	+0.3	53	51	+1	SE	2	0	*		59	46	
	Hernösand ...	29.69	50	2	b	29.71	+0.6	53	53	+1	SE	4	0	*		59	46	0.08
	Stockholm ...	29.72	51	2	b	29.69	-0.3	57	54	+4	SE	2	0	*		63	50	
	Wisby ...	29.76	54	2	c	29.71	-0.5	54	52	-1	S	4	7	*		61	52	0.04
	Bodö ...	29.61	55	2	c	29.71	+1.5	58	55	+4	ESE	4	0	2		59	50	
	Christiansund...	29.44	50	2	bc	29.56	+2.4	46	46	-5	E	1	m	2		57	44	
	Skudesnaes ...	29.57	49	1	c	29.52	+0.8	52	48	+2	ESE	2	0	4		52	48	
	Christiania Fjord (Færd)	29.51	55	5	0	29.53	-0.2	49	46	-8	WNW	2	b	3		57	48	0.16
	Skagen (The Scaw)	29.56	53	3	0	29.53	-0.6	51	50	-2	W	1	0	0		57	48	0.08
	Fanö ...	29.63	52	2	T	29.49	-2.3	51	51	-5	WNW	4	0	*		59	47	0.39
BRITISH ISLANDS.	Sumburgh Head	29.53	46	1	0	29.53	+1.4	45	43	-2	W	0	0	3		51	38	0.07
	Stornoway ...	29.75	47	1	0	29.65	+0.2	47	47	-1	W	3	0	3		52	43	0.39
	Wick ...	29.64	45	1	0	29.59	+0.1	44	43	-1	W	2	b	1		52	41	0.25
	Nairn ...	29.70	49	1	bc	29.63	+0.7	44	44	-5	W	1	0	1		55	43	0.17
	Aberdeen ...	29.67	51	2	bc	29.61	-0.1	46	44	-2	W	4	0	1		57	43	0.08
	Leith ...	29.69	55	1	0	29.65	-0.1	47	45	-2	W	3	0	*		66	44	0.11
	Shields ...	29.67	52	2	c	29.66	-0.3	47	44	-5	W	1	0	2		55	45	0.36
	Spurn Head ...	29.62	59	5	bc	29.64	-1.7	50	48	-8	W	4	b	2		59	49	0.08
	York ...	29.69	54	1	0	29.67	-0.9	49	46	-4	WNW	1	0	*		59	44	0.09
	Loughborough	29.72	59	4	T	29.73	-1.4	51	48	-4	WNW	3	0	*		60	47	0.06
GERMANY.	Ardrossan ...	29.72	54	5	c	29.68	+0.7	52	48	-1	WNW	4	0	3		60	45	0.03
	Malin Head ...	29.79	52	3	bc	29.73	+0.7	52	48	0	W	4	0	4		54	48	0.01
	Mullaghmore ...	29.84	52	4	0	29.83	+1.0	54	49	-3	W	6	cq/p	5		58	49	0.10
	Belmullet ...	29.89	55	2	b	29.87	+0.3	53	48	-2	W	2	0	*		57	51	0.05
	Donaghadee ...	29.79	54	4	bc	29.66	-0.0	49	48	-6	W	4	0	2		60	45	0.01
	Barrow-in-Furness	29.69	58	5	b	29.71	-0.0	52	48	-2	WNW	3	b	*		59	49	0.08
	Liverpool (Bidston)	29.74	56	3	c	29.73	-0.7	52	47	-1	WNW	4	0	4		61	50	0.07
	Holyhead ...	29.77	57	3	c	29.78	-0.1	56	51	+3	WNW	4	bq	2		62	51	0.05
	Parsonstown ...	29.86	58	2	0	29.87	+0.4	50	48	-9	W	1	0	*		62	48	
	Valencia ...	29.93	58	2	0	29.94	-0.2	56	50	-2	WNW	2	0	2		60	53	0.04
FRANCE & NETHERLANDS.	Roche's Point...	29.86	60	4	bc	29.87	-0.6	53	49	-4	WNW	3	0	3		63	49	0.01
	Pembroke ...	29.83	59	4	c	29.82	-1.1	54	52	-3	W	3	cq/p	2		60	52	0.07
	Scilly ...	29.92	60	5	0	29.86	-1.9	57	57	-1	W	5	0	4		63	56	0.03
	Prawle Point ...	29.89	57	4	T	29.81	-2.1	55	54	-2	W	4	0	2		61	53	0.20
	Jersey ...	29.97	61	4	cq	29.82	-2.4	61	58	+1	W	4	0	3		63	57	
	Hurst Castle ...	29.87	59	5	0	29.76	-2.2	55	54	-2	NE	1	0	0		63	51	0.02
	Dungeness ...	29.81	60	5	c	29.71	-2.4	55	52	-1	W	2	b	2		66	52	0.02
	London ...	29.81	60	2	0	29.75	-2.0	53	50	-3	WNW	1	0	*		65	52	0.01
	Oxford ...	29.79	57	3	0	29.76	-1.7	52	48	-2	W	2	0	*		60	51	0.03
	Cambridge ...	29.72	53	1	c	29.78	-1.3	58	54	+2	W	1	0	*		64	47	
PENIN. ISLS.	Yarmouth ...	29.75	58	4	c	29.67	-2.2	53	51	-1	WNW	3	0	3		61	50	0.07
	Cuxhaven ...	29.76	56	5	T	29.59	-2.6	55	54	0	SW	5	0	*		59	52	0.03
	Berlin ...	29.85	58	2	bc	29.77	-1.5	53	50	-3	SSW	2	0	*		64	51	
	Wiesbaden ...	*	*	*	*	29.85	-1.2	52	49	-6	W	0	0	*		66	45	
	Manich ...	30.01	57	1	c	29.93	-1.3	56	53	+2	SE	2	0	*		66	50	
	The Helder ...	29.71	58	5	T	29.62	-2.3	57	53	0	WNW	1	0	2		59	57	0.08
	Brussels ...	*	*	*	*	29.72	-2.5	53	53	0	SW	4	T	*		62	53	0.39
	Cape Gris Nez...	29.89	59	8	0	29.73	-2.7	55	54	0	W	4	T	4		63	55	0.59
	Paris ...	29.97	58	1	c	29.85	-2.1	51	49	0	SW	3	0	*		66	48	
	Brest ...	30.02	60	4	0	29.90	-2.2	58	57	+2	WNW	1	T	2		73	50	0.12
FRANCE & NETHERLANDS.	Lorient ...	30.02	59	5	c	29.92	-1.9	59	53	+4	W	5	0	4		63	48	
	Rochefort ...	30.07	64	5	b	29.99	-1.6	59	57	-3	SSW	4	0	2		68	55	
	Belfort ...	29.90	58	3	b	29.88	-1.5	58	52	-6	W	3	b	*		68	45	
	Lyons ...	29.99	64	1	bc	29.92	-1.5	57	55	+2	W	1	0	*		75	55	
	Nice ...	29.91	65	1	b	29.85	-0.7	67	61	+1	E	1	0	*		75	59	
	Perpignan ...	29.96	64	3	b	29.94	-1.4	60	58	-3	W	1	0	*		81	57	
	Biarritz ...	30.02	66	4	bc	29.96	-1.8	59	56	0	ESW	4	0	2		70	57	
	Corunna ...	*	*	*	*	*	*	*	*	*	*	*	*	*		*	*	
	Lisbon ...	29.95	70	3	b	29.95	-1.0	64	61	-4	SSW	1	0	2		79	61	

For Explanation of Columns, see p. 4.



# WEATHER CHARTS

for 8 a.m. on Monday, 12<sup>th</sup> September 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.

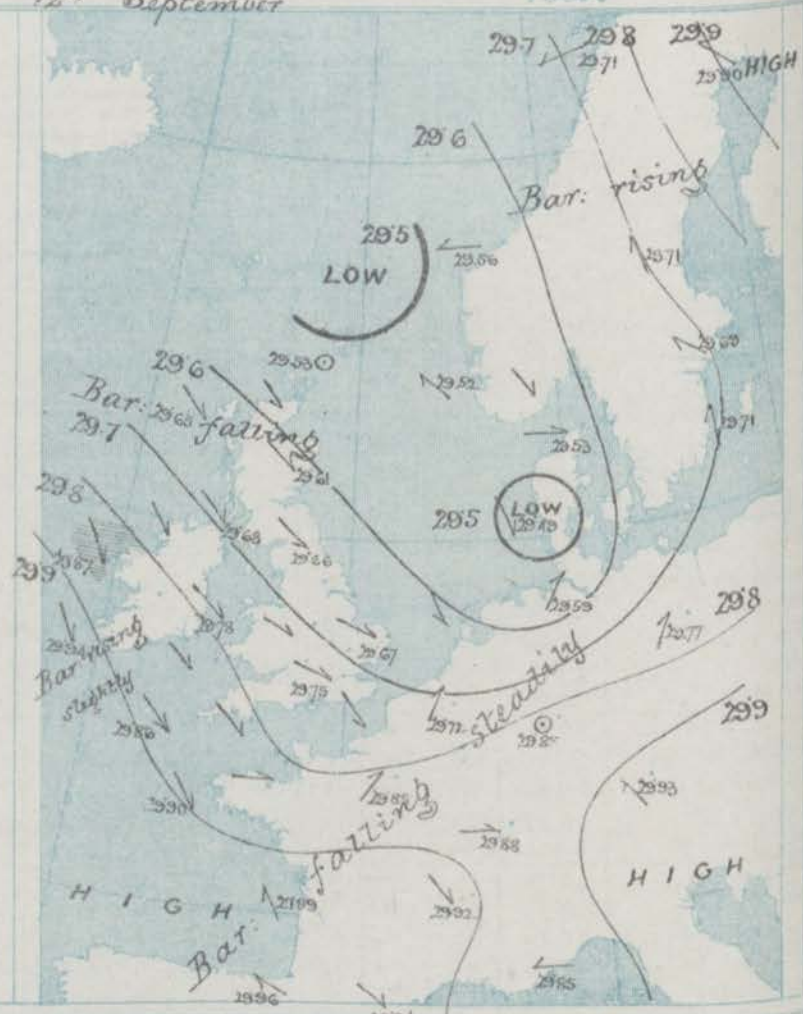
**Sea Disturbance** — where considerable is shown thus

— Rough. — High.

## MEAN HEIGHT of the BAROMETER

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

STATIONS.	MEAN READINGS.
	in.
Sumburgh Head	29.768
Stornoway	29.781
Wick	29.786
Nairn	29.812
Aberdeen	29.815
Leith	29.851
Shields	29.876
York	29.913
Ardrossan	29.853
Dunghadue	29.876
Holyhead	29.903
Liverpool	29.910
Valencia	29.929
Roche's Point	29.928
Pembroke	29.934
Scilly	29.960
Hurst Castle	29.978
Dover	29.956
LONDON	29.956
Oxford	29.948
Cambridge	29.943
Yarmouth	29.928



## 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 September.

STATIONS	TEMPERATURE.				RAINFALL. (Inches)
	Daily Max	Daily Min.	A.T. & W.	Wet.	
Sumburgh Head	55.2	46.2	50.6	49.0	3.46
Stornoway	55.9	45.4	51.0	49.7	4.12
Wick	57.5	45.8	51.5	49.7	2.66
Nairn	59.0	47.0	51.8	48.9	2.78
Aberdeen	58.0	47.1	52.0	49.5	3.22
Leith	62.7	47.8	53.5	51.1	2.47
Shields	60.0	49.0	53.4	51.2	2.58
York	63.2	47.8	53.1	51.2	2.98
Ardrossan	59.9	49.9	53.0	51.0	3.87
Dunghadue	59.5	49.2	53.3	52.1	3.22
Holyhead	61.1	53.1	53.6	53.4	3.35
Liverpool	61.3	51.2	54.7	52.0	3.56
Valencia	61.9	52.0	55.4	53.9	4.87
Roche's Point	62.0	51.7	55.4	53.3	4.39
Pembroke	60.4	53.4	53.8	53.9	3.89
Scilly	61.9	55.2	58.5	56.5	3.00
Hurst Castle	64.4	52.9	57.8	56.8	3.35
Dover	63.1	52.8	58.3	56.4	2.86
LONDON	63.9	49.3	56.4	54.0	3.50
Oxford	63.8	49.0	54.2	52.4	2.91
Cambridge	65.8	45.5	54.5	52.9	2.48
Yarmouth	62.3	50.8	56.3	54.4	3.17

NOTE — The Temperature means are for the 10 years 1871—80, the Rainfall means are mainly those for the 20 years 1860—85.





# GENERAL SITUATION AT 8 A.M.

## PRESSURE

Highest, 29.99 in. at Rochfort, and 29.94 in. at Valencia — also 29.93 in. at Munich and 29.90 in. at Haparanda.  
Lowest, 29.49 in. at Tins, 29.52 in. at Skudenare, and 29.53 in. at Sumburgh Head.  
Gradients slight, — for NW winds in our Islands and for SE over Scandinavia.  
Barometer changing little and irregularly.

## TEMPERATURE

Highest, 67° at Nice, 59° on the west coast of France, 57° at Stockholm.  
Lowest, 44° at Wick and Kinn, 45° at Sumburgh Head, 47° at Feth and Shield, and 49° at York and Tander.  
It is lower over our Islands generally, than it was yesterday.

## WIND

NW<sup>ly</sup>, light to moderate over the British Isles — SE<sup>ly</sup>, light over Scandinavia.  
SW<sup>ly</sup> in the Netherlands and at Paris and Berlin.  
SE<sup>ly</sup> moderate in the south-west of France and at Munich.

## WEATHER

Cloudy, very generally, with rain in the Netherlands and north-east of France.  
Light showers at some of our northwestern stations — elsewhere it is dry.  
[Rain has fallen generally since yesterday — most at our northern stations, in the Netherlands, and the NE. of France]

## SEA

Moderate to smooth.

## PROBABLE CHANGES IN SYSTEM NOW PREVALENT

The changes in progress are too slight and irregular to indicate any great change of weather during the coming twenty-four hours. Beyond a clearing of the sky, and the consequent probability of sharp cold at the inland stations during the night.

## FORECASTS

For the 24 hours ending at NOON on 13<sup>th</sup> SEPT<sup>r</sup>

1887.

### DISTRICTS.

### FORECASTS.

0	SCOTLAND NORTH	W. and SW <sup>ly</sup> winds, moderate; fair as a whole.
1	SCOTLAND EAST	..... D° ..... 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	NW <sup>ly</sup> breezes, light; cloudy to fair. Very cold inland at night.

### DISTRICTS.

### FORECASTS.

6	SCOTLAND WEST	NW <sup>ly</sup> to SW <sup>ly</sup> breezes, light; fair generally.
7	ENGLAND N.W.	..... D° ..... D° ..... D° .....
8	ENGLAND S.W.	Same as N° 5
9	IRELAND NORTH	NW <sup>ly</sup> to SW <sup>ly</sup> breezes, light; fine.
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 ...	29.52	52	48	Sw 5	r	5	Holyhead ...	29.75	61	58	W 4	c	4
Sumburgh Head							Valencia ...						
Stornoway ...	29.72	51	49	NW 5	e	4	Scilly ...						
Aberdeen ...							Dungeness ...	29.86	61	57	W 5	c	3
Shields ...							London ...						
Ardrossan ...							Yarmouth ...						
Malin Head ...	29.77	52	49	NW 3	0	4	Jersey ...	30.02	62	54	W 4	c	3
Mullaghmore ...							Rochefort ...	30.13	67	59	WNW 5	b	2
Belmullet ...	29.69	57	53	WNW 3	e	*							

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

The reports for yesterday morning showed that pressure was highest 30.1 ins. and upwards over the Bay of Biscay, and the adjacent coasts, but relatively high 30.0 ins. and upwards over the White Sea. The lowest pressure 29.4 ins. and less, was found in a depression which lay off the west of Norway, but a shallow subsidiary disturbance was reported over the northwest of our islands while another shallow system lay over the Gulf of Genoa. Moderate to strong NW breezes prevailed over Ireland and Scotland and the greater part of France, SW breezes over England and the North Sea, and S or SE breezes over Central Europe and the Baltic, but on the shores of the Mediterranean the wind was light and variable. The weather was fine over the more southern countries, but rain was falling over the northern part of Ireland and England, as well as at Herivard, Oco, and Carlsruhe. Temperature had changed rather irregularly, but the general tendency was for a slight fall, readings ranged from 75° and upwards at several of the Spanish, Algerian and Italian stations to 50° or less over Scotland and northern Russia. The highest individual readings were 82° at Oron, 81° at Orléans and Biskaw, 79° at Brindisi, and 78° at Algiers and La Calle; the lowest were 45° at Archangel and Wick, 47° at Sumburgh Hd., 48° at Stornoway and Aberdeen and 49° at Kuopio, Kain, Leth and Lorient.

In the course of the day the shallow depression over our northwest coasts passed eastward to the North Sea, and the wind veered to the NW over the greater part of the Kingdom, with improving weather.

### SUMMARY OF CHANGES IN THE WEATHER OVER THE BRITISH ISLANDS AND THEIR NEIGHBOURHOOD FROM SEPT. 4<sup>th</sup> TO 10<sup>th</sup> 1887.

During the past week the weather over our islands and their neighbourhood has remained in a very unsettled state, with rain in all districts and a somewhat low temperature.

At the commencement of the period barometrical pressure was highest over Spain and two depressions advanced over the United Kingdom from the Atlantic.

The first, a shallow system, lay over Scotland on the 4<sup>th</sup>, and subsequently moved away to Scandinavia. Its progress was attended by heavy rain at some of our northern stations, and squally, showery weather with strong SW winds in the south.

The second, a deeper disturbance advanced slowly across the north of Ireland on the 5<sup>th</sup>, and reached Scotland on the following day. As it came on moderate SW gales were experienced in the west and south generally, with heavy rain at the Irish stations.

On the evening of the 6<sup>th</sup> the latter depression was joined by a shallow subsidiary disturbance which appeared over our SW coasts, and in the course of the ensuing night the two systems moved away eastward to Scandinavia and the North Sea, the wind in their rear veering to the N generally.

By the morning of the 8<sup>th</sup> a large anticyclone had advanced over Ireland, England, and France. This, however, soon passed eastwards, and on the 9<sup>th</sup> and 10<sup>th</sup> the weather over our islands was affected by a large and somewhat deep depression, the centre of which after moving NE to our NW coast subsequently changed its course and travelled eastwards to Scandinavia. The advance of this system was marked by fresh SW gales in the extreme W. and N. while in the rear the wind on the same coasts blew very strongly from the NW. Steady rain fell at many of our northern stations, and smaller amounts in the south.

Temperature has been low for the time of year the maximum readings being usually below 70° in the S. and frequently below 60° at the more northern stations.

#### EXPLANATION OF COLUMNS GIVEN ON PAGE 1.

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

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

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

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



# DAILY WEATHER REPORT.

for Tuesday 13<sup>th</sup> September 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 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	29.97	52	2	0	0	29.07	+1.7	48	46	-5	2	0	bc	*		59	46	-
	Hernösand	29.83	53	SSW	4	T	29.96	+1.25	54	53	0	SE	2	0	*		59	48	0.04
	Stockholm	29.76	55	SE	2	0	29.85	+1.16	57	54	0	SE	4	0	*		66	48	-
	Wisby	29.75	54	SW	4	0	29.77	+0.02	58	56	+4	SE	4	0	*		64	52	0.04
	Bodo	29.62	54	ENE	2	C	29.95	+1.24	56	52	-2	SE	2	0	1		59	48	-
	Christiansund	29.66	47	SSW	2	0	29.74	+1.18	46	46	0	C	1	0	2		50	41	0.39
	Skudesnaes	29.55	52	ENE	2	T	29.55	+0.03	50	48	-2	NNE	2	0	3		51	41	-
	Christiania Fjord (Fjorder)	?	52	NE	2	T	29.52	-0.01	53	51	+4	NE	3	0	2		51	48	0.32
	Skagen (The Scaw)	29.47	53	NNE	3	0	29.50	-0.03	53	52	+2	2	0	0	0		54	50	0.08
	Faro	29.54	51	2	0	C	29.51	+0.02	50	49	-1	S	2	0	*		57	48	0.20
BRITISH ISLANDS.	Sumburgh Head	29.63	47	2	0	C	29.75	+1.22	48	45	+3	NW	1	0	3		51	38	-
	Stornoway	29.74	50	N	4	bep	29.93	+1.28	49	49	+2	N	4	0	3		57	42	0.08
	Wick	29.68	45	NW	1	bc	29.86	+1.24	49	47	+5	NW	2	0	1		52	36	0.10
	Nairn	29.70	49	ENE	2	0	29.88	+1.25	46	44	+2	SW	1	0	1		52	41	0.10
	Aberdeen	29.64	47	NW	4	b	29.82	+1.21	50	48	+4	NW	5	0	2		52	42	0.05
	Leith	29.65	48	N	2	C	29.87	+1.22	50	45	+3	NW	2	0	*		55	42	0.07
	Shields	29.64	47	NW	2	C	29.76	+1.10	46	45	-1	NW	3	0	4		54	42	0.36
	Spurn Head	29.64	48	NW	4	C	29.71	+1.07	47	46	-3	NW	6	bc/p	3		54	45	0.20
	York	29.66	49	NW	1	C	29.77	+1.10	47	44	-2	NW	3	C	*		59	40	0.08
	Loughborough	29.72	52	NW	3	C	29.81	+1.08	47	45	-4	NW	2	bc	*		61	44	0.01
GERMANY.	Ardrossan	29.69	53	NW	4	C	29.90	+1.22	49	45	-3	NW	3	0	2		55	42	0.02
	Malin Head	29.76	52	NW	4	cp	29.95	+1.22	52	48	0	NNE	4	bc/p	3		54	50	0.05
	Mullaghmore	29.85	53	NW	5	cp/y	29.99	+1.16	51	49	-3	N	4	cp	3		58	50	-
	Belmullet	29.91	54	NW	2	0	30.04	+1.17	54	50	+1	N	2	C	*		56	50	0.04
	Donaghadee	29.77	52	N	5	C	29.92	+1.26	52	49	+3	NNE	4	0	2		55	48	0.13
	Barrow-in-Furness	29.68	53	NW	5	bc	29.84	+1.13	47	44	-5	N	2	bc	*		55	43	0.16
	Liverpool (Bidston)	29.71	53	W	5	C	29.84	+1.11	51	45	-1	NW	2	0	3		56	43	0.25
	Headly	29.77	54	NW	5	bc/p	29.89	+1.11	53	47	-3	N	3	0	3		59	49	0.10
	Parsonstown	29.88	54	2	0	bc	30.00	+1.13	50	49	0	NW	2	0	*		58	47	0.01
	Valencia	29.96	55	NW	2	cp	30.05	+1.11	54	50	-2	NE	2	C	2		60	51	0.04
FRANCE & NETHERLANDS.	Roche's Point	29.89	57	NW	3	C	29.98	+1.11	53	50	0	NW	3	0	3		58	50	-
	Pembroke	29.84	56	NW	3	C	29.90	+1.08	53	51	-1	N	4	cp	2		57	53	-
	Seilly	29.90	57	NW	4	0	29.93	+1.07	56	56	-1	NW	5	0	4		59	54	-
	Prawle Point	29.85	54	NW	3	bc	29.89	+1.08	54	50	-1	NW	3	0	2		64	49	0.01
	Jersey	29.85	60	NW	3	bc	29.87	+1.05	58	53	-3	NW	4	bc	3		68	58	0.11
	Hurst Castle	29.79	57	NW	3	bc	29.81	+1.05	54	51	-1	NW	3	C	1		60	48	0.04
	Dungeness	29.73	58	NW	4	C	29.76	+1.05	48	47	-1	NW	3	C	2		59	43	0.02
	London	29.73	54	NW	2	C	29.78	+1.03	49	46	-4	NW	2	C	*		61	43	0.01
	Oxford	29.77	51	W	2	0	29.81	+1.05	48	46	-4	NW	3	0	*		59	44	0.03
	Cambridge	29.69	55	NW	2	C	29.77	-0.01	49	45	-9	N	1	0	*		62	42	-
PENIN. ISLS.	Yarmouth	29.65	45	NW	2	C	29.70	+1.03	48	46	-5	NW	3	0	3		57	42	0.07
	Cuxhaven	29.53	51	NW	4	T	29.61	+1.02	50	50	-5	SSW	2	0	*		58	48	0.24
	Berlin	29.70	60	SSW	3	0	29.76	-0.01	58	53	+5	SW	1	0	*		66	52	-
	Wiesbaden	*	*	*	*	*	29.80	-0.05	55	51	+3	SW	1	0	*		66	52	-
	Munich	29.87	56	SW	2	C	29.91	-0.02	57	53	+1	SW	3	0	*		64	54	-
	The Helder	29.60	45	NW	4	0	29.65	+1.03	53	48	-4	NW	4	C	3		59	52	0.32
	Brussels	*	*	*	*	*	29.76	+1.04	52	49	-1	NW	3	bc	*		60	49	0.08
	Cape Gris Nez	29.72	57	W	5	bc	29.77	+1.04	53	50	-2	NW	7	C	5		61	52	-
	Paris	29.80	60	NW	3	0	29.85	-0.00	54	53	+3	W	1	bc	*		65	51	-
	Brest	29.97	57	NW	5	bc	29.97	+0.07	57	54	-1	NW	4	0	3		73	50	-
AFRICA.	Lorient	29.93	59	NW	5	bc	29.93	+1.01	56	54	-3	NW	4	0	3		64	54	0.03
	Rochefort	29.95	65	NW	5	0	30.01	+1.02	58	53	-1	NW	5	0	2		72	54	-
	Belfort	29.86	56	W	3	C	29.84	-0.04	55	51	-3	SW	3	0	*		64	44	-
	Lyons	29.86	61	NW	3	0	29.93	+1.01	60	55	+3	NW	1	bc	*		81	53	-
	Nice	29.78	67	NNE	1	0	29.79	-0.06	66	60	-1	ENE	1	0	1		75	57	-
	Perpignan	29.89	66	2	0	C	29.96	+1.02	64	58	+4	NW	3	bc	*		81	57	-
	Barritz	29.97	66	N	3	0	30.01	+1.05	63	61	+4	SW	5	C	2		72	61	-
	Corunna	*	*	*	*	*	*	*	*	*	*	*	*	*	*		*	*	-
	Lisbon	29.93	66	NW	5	0	29.98	+1.03	64	60	0	NW	5	0	2		79	61	-

For Explanation of Columns, see p. 4.



# WEATHER CHARTS

for 8 a.m. on

Tuesday, 13<sup>th</sup> September

1887.

## BAROMETER, WIND & SEA.

(Explanation of Map)

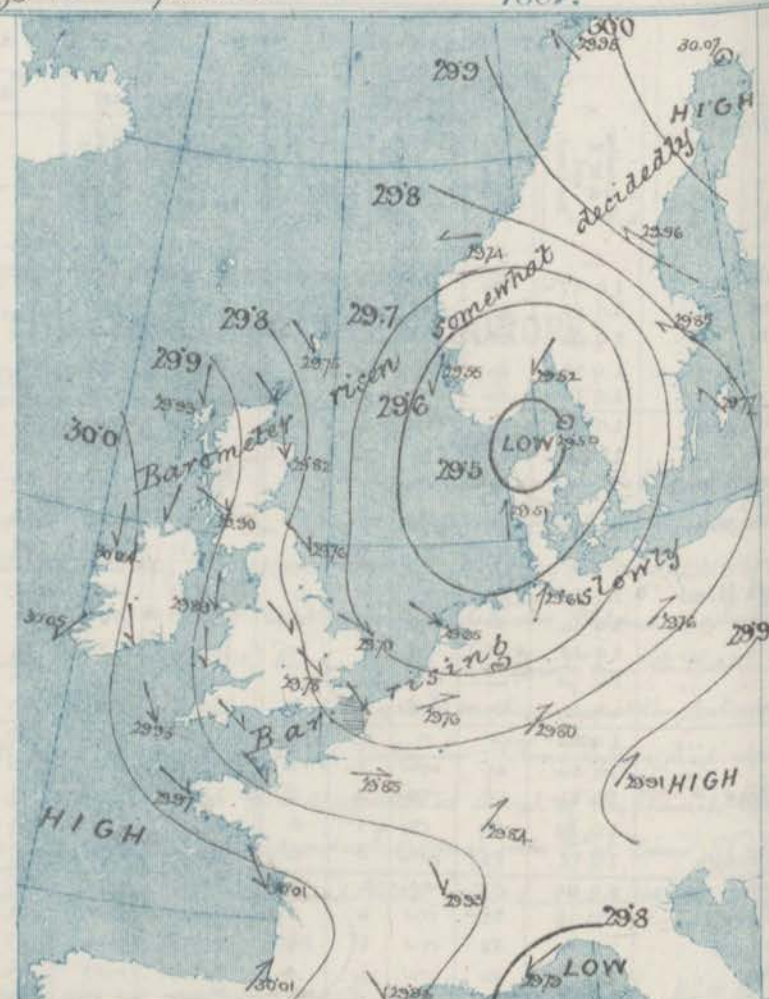
**Barometer**—Isobars are drawn for each tenth of an inch. Changes since previous morning are stated in words.  
**Wind**—Arrows show the prevalent winds. They fly with the wind and their barbs and feathers refer to force, thus—  
 → = forces above 10; →→ = forces 8 to 10;  
 →→ = forces 5 to 7; → =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

**Sea Disturbance**—where considerable is shown thus  
 [Symbol] = Rough. [Symbol] = High.

## MEAN HEIGHT of the BAROMETER

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

STATIONS.	MEAN READINGS.
	<i>in.</i>
Sumburgh Head	29.758
Stornoway	29.781
Wick	29.786
Nairn	29.812
Aberdeen	29.815
Leith	29.851
Shields	29.876
York	29.913
Ardrossan	29.858
Donaghadee	29.875
Holyhead	29.903
Liverpool	29.910
Valencia	29.929
Roche's Point	29.923
Pembroke	29.924
Scilly	29.960
Hurst Castle	29.978
Dover	29.955
LONDON	29.956
Oxford	29.943
Cambridge	29.943
Yarmouth	29.928



## 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 September.

STATIONS	TEMPERATURE				RAINFALL (Inches)
	Daily Max	Daily Min.	At 8 a.m.		
			Dir.	Wet	
Sumburgh Head	55.2	46.2	50.6	49.0	3.46
Stornoway	55.0	45.4	51.0	49.7	4.13
Wick	57.5	45.3	51.6	49.7	2.66
Nairn	59.0	47.0	51.3	48.8	2.73
Aberdeen	58.0	47.1	52.0	49.6	3.22
Leith	62.7	47.8	53.5	51.1	2.47
Shields	60.0	49.0	53.4	51.2	2.59
York	63.2	47.3	53.1	51.2	2.98
Ardrossan	59.9	49.9	53.6	51.0	3.87
Donaghadee	59.5	49.2	53.3	52.1	3.22
Holyhead	61.1	53.1	55.6	53.4	3.35
Liverpool	61.8	51.2	54.7	52.0	3.56
Valencia	61.9	52.0	56.4	53.9	4.87
Roche's Point	62.0	51.7	55.4	53.2	4.39
Pembroke	60.4	53.4	56.3	53.9	3.80
Scilly	61.9	55.2	58.5	56.5	3.69
Hurst Castle	64.4	52.9	57.8	56.3	3.35
Dover	63.1	52.8	58.3	55.4	2.86
LONDON	66.9	49.3	56.4	54.0	2.59
Oxford	63.8	49.0	54.2	52.4	2.91
Cambridge	65.8	48.5	54.5	52.9	2.48
Yarmouth	62.3	50.8	56.3	54.4	3.17

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, west of Ireland 30.05 ins., southwest of France 30.01 ins., Harpenden (Hampshire) 30.07 ins., Munich 29.91 ins.;  
lowest, The Scaw 29.50 ins., Faro 29.51 ins., Skutumpah 29.55 ins., Yarmouth 29.70 ins.  
Gradients for N<sup>W</sup> winds have become more decided over the North Sea. Barometer still rising in most places - especially in north.

## TEMPERATURE

Highest, 66° at Nice, 64° at Perpignan and Lisbon, 58° at Liège and Berlin, 57° at Stockholm and Kassel.  
lowest, 46° at Christianund and Kain, 47° at York and Loughborough, 48° at Oxford, 49° at Spinn H<sup>nd</sup> (Lombardy) and in London.  
It has risen slightly in the north of Scotland and some part of France, fallen decidedly over England.

## WIND

Light to moderate from SE. over Scandinavia - and from N. in Scotland and Ireland.  
Moderate to strong from NW. at the eastern and southeastern stations - S<sup>W</sup> in Denmark.  
Over France it is moderate from NW. and W., while in Germany it is light from SW.

## WEATHER

Cloudy, but fair, in most places. Light showers, however, still prevail on our NE. and NW. coasts.  
Light cold showers have occurred in most places, and thunder on our northeast coasts and at Helder.

## SEA

Little disturbed except on the Dutch and Belgian coasts and on the French side of the Straits of Dover, where it is rather rough.

## PROBABLE CHANGES IN SYSTEM NOW PREVALENT

The barometer continues to rise throughout our islands, most in the north, while the depression over Denmark and the North Sea shows no definite movement at present. A further freshening of the N<sup>W</sup> wind in the east and southeast is therefore likely, with occasional cold showers, but moderate N<sup>W</sup> breezes are probable over the United Kingdom, with cold, and, as a whole, fair dry weather.

## FORECASTS

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

### DISTRICTS.



### FORECASTS.

0	SCOTLAND NORTH	NW <sup>W</sup> and N <sup>W</sup> winds, light; fine.
1	SCOTLAND EAST	NW <sup>W</sup> winds, fresh to light; cold, a few cold showers.
2	ENGLAND N.E.	-----D°-----D°-----D°-----
3	ENGLAND EAST	-----D°-----D°-----D°-----
4	MIDLAND COUNTIES	Same as No 5
5	ENGLAND SOUTH	NW <sup>W</sup> breezes, light; cold, fair as a whole.

### DISTRICTS.

### FORECASTS.

6	SCOTLAND WEST	NW <sup>W</sup> and N <sup>W</sup> winds, moderate; slight showers.
7	ENGLAND N.W.	-----D°-----D°-----D°-----
8	ENGLAND S.W.	-----D°-----D°-----D°-----
9	IRELAND NORTH	N <sup>W</sup> breezes, moderate; fair in the east, showery in the west, cold.
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 ...	29.53	58	50	E.N.E. 2	c	3	Holyhead ...	29.78	55	50	W.N.W. 4	cq	2
Sumburgh Head ...	29.58	50	45	N.E. 1	c	3	Valencia ...	29.95	59	54	N.W. 4	b.c.v	4
Stornoway ...	29.68	51	50	N 5	c	4	Scilly ...	29.89	59	59	N.W. 5	c	4
Aberdeen ...	29.61	51	48	N.W. 4	p	1	Dungeness ...	29.73	58	53	W 3	0	2
Shields ...	29.63	49	47	N 2	r	2	London ...	29.74	60	51	N.W. 3	c	*
Ardrossan ...	29.69	55	49	N.W. 6	c	4	Yarmouth ...	29.66	56	51	N.W. 4	c	3
Malin Head ...	29.76	53	49	N.W. 4	0	4	Jersey ...	29.84	53	58	N.W. 3	c	3
Mullaghmore ...	29.85	54	50	N.W. 6	0	3	Rochefort ...	29.97	66	63	N.W. 5	0	2
Belmullet ...	29.91	56	51	N 2	b.c.p	*							

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

The reports for yesterday morning showed that a large area of relatively high pressure, 29.9 ins. and upwards, was lying over the Bay of Biscay, Spain and Algeria, while a smaller area with similar readings existed over Northern Russia. The lowest readings, 29.5 ins. and less, were found in two small depressions lying respectively off the west of Norway and over Denmark. Moderate NW breezes prevailed over our Islands and the north of France, but in Germany the wind was SW, and over the Baltic and Scandinavia it drew into SE, while over Southern Europe it was very variable. Fine weather prevailed at the more southern stations, but elsewhere the sky was generally cloudy, with rain in the Netherlands and north-east of France, as well as at Nisby and Copenhagen. Temperature had risen a little in Denmark and the Netherlands, but fallen elsewhere; readings ranged from 75° and upwards over Algeria and South Italy, to 50° or less over the northern parts of our Islands and Russia. The highest individual readings were 81° at Algiers, 80° at Biskra, 79° at Oran and Malta, 78° at Tunis and 77° at Brindisi; the lowest were 42° at Archangel, 44° at Uleik and Kain, 45° at Sumburgh H., 47° at Leth and Shields and 48° at Riga.

In the course of the day very little change was observed either in pressure winds or 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 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 Wednesday 14<sup>th</sup> September

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.	Reading at 32° F. and Sea Level.	BAROMETER.		SHADE TEMP.			WIND.		Weather.	Sea. (0 to 9.)	SHADE TEMP.		Amount of Rainfall.	
			Dir.	Force. (0 to 12.)			Difference from 8 a.m. yesterday.	Dry.	Wet.	Difference from 8 a.m. yesterday.	Dir.	Force. (0 to 12.)	Max.			Min.			
SCANDINAVIA.																			
Haparanda ..	30.14	45	Z	0	b	30.28	+ .21	55	52	+	.7	W	2	b	*	55	45	—	
Hernösand ..	30.13	49	Z	0	b	30.28	+ .32	54	52	+	0	NE	3	0	*	57	48	—	
Stockholm ..	29.98	57	SE	2	c	30.10	+ .25	59	57	+	2	NE	2	0	*	66	54	—	
Wisby ..	29.92	55	S	2	b	29.98	+ .21	61	59	+	3	E	4	0	*	66	52	—	
Bodö ..	30.08	49	Z	0	b	30.22	+ .27	51	51	—	2	ESE	2	b	1	57	48	—	
Christiansund ..	29.86	56	ESE	6	b	30.02	+ .28	53	50	+	7	ESE	3	b	2	61	48	—	
Skudesnaes ..	29.69	54	Z	0	c	29.90	+ .35	56	49	+	6	E	4	c	3	7	60	—	
Christiania Fjord (Varder) ..	29.76	54	SE	3	b	29.98	+ .46	54	52	+	1	NE	3	0	2	57	52	—	
Skagen (The Scaw) ..	29.72	54	S	5	b	29.94	+ .42	54	52	+	1	SE	4	0	3	59	52	—	
Fanö ..	29.72	49	S	1	c	29.82	+ .31	50	48	0	SE	4	b	*	57	45	0.20		
BRITISH ISLANDS.																			
Sumburgh Head ..	29.76	52	N	3	0	29.88	+ .08	52	51	+	4	Z	0	0	3	53	45	0.01	
Stornoway ..	30.01	50	NW	5	c	29.96	+ .03	50	50	+	1	NE	6	0	5	54	41	—	
Wick ..	29.85	49	N	2	T	29.92	— .02	51	50	+	2	N	2	2	1	52	48	0.08	
Nairn ..	29.93	49	NNW	5	T	29.88	— .05	50	49	+	4	W	3	0	1	54	46	0.01	
Aberdeen ..	29.82	49	NW	6	0	29.80	— .02	51	50	+	1	NNE	1	T	2	55	47	0.69	
Leith ..	29.88	52	NW	1	c	29.85	— .02	48	48	—	2	W	1	rm	*	58	47	0.14	
Shields ..	29.85	52	NNW	1	0	29.77	+ .01	49	48	+	3	NW	3	r	4	54	45	0.30	
Spurn Head ..	29.74	53	NNW	5	b	29.77	+ .06	50	49	+	3	W	5	rm	3	53	45	0.06	
York ..	29.88	50	NNW	1	b	29.80	+ .03	50	48	+	3	NNW	1	m	*	55	44	0.15	
Loughborough ..	29.91	52	NNW	3	0	29.87	+ .06	50	48	+	3	W	3	0	*	55	46	—	
GERMANY.																			
Ardrossan ..	29.91	55	NW	4	b	29.86	— .04	54	50	+	5	NW	4	b	3	59	47	—	
Malin Head ..	29.98	52	N	4	0	29.95	— .00	52	50	+	0	NNW	4	og	3	55	50	—	
Mallaghmore ..	30.06	53	NW	4	0	30.04	+ .05	52	48	+	1	NW	5	c	3	58	50	—	
Belmullet ..	30.11	55	NNW	2	0	30.08	+ .04	52	48	—	2	NNW	1	0	*	57	51	—	
Donaghadee ..	29.98	53	N	6	0	29.92	— .06	53	50	+	1	N	6	b	4	58	50	—	
FRANCE & NETHERLANDS.																			
Barrow-in-Furness ..	29.90	54	NNW	3	b	29.86	+ .02	51	48	+	2	N	2	0	*	56	47	—	
Liverpool (Bidston) ..	29.93	53	NNW	3	b	29.88	+ .02	54	49	+	3	NNW	3	c	3	56	50	0.07	
Holyhead ..	29.97	54	NNW	4	c	29.92	+ .03	51	50	—	2	NNW	4	rgm	4	50	51	0.08	
Parsonstown ..	30.06	55	NW	2	b	30.05	+ .05	51	50	+	1	Z	0	b	*	59	45	—	
Valencia ..	30.10	58	NW	2	b	30.09	+ .04	56	52	+	2	N	1	0	1	62	52	—	
Roche's Point ..	30.06	57	N	3	b	30.05	+ .07	55	49	+	0	N	3	0	0	61	51	—	
Pembroke ..	29.99	54	N	2	b	29.97	+ .07	54	51	+	1	NW	4	og	2	58	50	0.01	
Seilly ..	30.00	56	NNW	4	b	30.03	+ .10	56	50	+	0	NNW	5	c	3	58	54	—	
Prawle Point ..	29.98	55	NNW	2	b	30.00	+ .11	58	51	—	1	NNW	1	b	1	61	49	0.07	
Jersey ..	29.97	58	NW	3	b	30.01	+ .14	58	51	+	0	NW	3	b	3	60	46	0.01	
ITALY.																			
Hurst Castle ..	29.94	57	N	2	b	29.96	+ .15	54	51	+	0	NNW	2	b	1	61	43	—	
Dungeness ..	29.84	55	NNW	3	c	29.91	+ .15	53	49	+	5	NNW	3	c	3	58	42	—	
London ..	29.90	52	NW	4	0	29.92	+ .14	49	46	+	0	W	1	c	*	59	43	—	
Oxford ..	29.96	50	NW	3	0	29.90	+ .09	49	47	+	1	W	2	c	*	56	42	—	
Cambridge ..	29.87	53	N	1	0	29.87	+ .10	50	47	+	0	W	1	b	*	59	41	0.02	
Yarmouth ..	29.79	51	NW	4	cp	29.83	+ .13	48	46	+	0	W	3	c	3	55	42	0.22	
Cuxhaven ..	29.74	57	SW	1	c	29.81	+ .20	47	47	—	3	SSW	1	r	*	55	45	0.24	
Berlin ..	29.84	56	W	1	b	29.86	+ .10	53	52	—	5	SE	1	r	*	66	52	0.39	
Wiesbaden ..	*	*	*	*	*	29.99	+ .19	51	48	—	4	SW	4	0	*	61	46	0.16	
Munich ..	29.89	56	SW	2	c	30.08	+ .17	46	45	—	11	NW	3	0	*	64	46	0.08	
SPAIN.																			
The Helder ..	29.72	53	NNW	1	0	29.80	+ .15	54	50	+	1	NNW	1	0	1	57	45	0.51	
Brussels ..	*	*	*	*	*	29.94	+ .18	49	48	—	3	WSW	1	c	*	54	46	—	
Cape Gris Nez ..	29.88	53	NNW	4	6	29.83	+ .16	53	49	+	0	NNW	5	0	4	59	50	—	
Paris ..	29.91	49	W	1	b	30.03	+ .18	43	42	—	11	SSW	1	b	*	62	44	0.04	
Brest ..	30.07	57	N	5	b	30.07	+ .10	50	49	+	7	N	1	b	2	63	46	—	
Lorient ..	30.01	59	NNE	4	b	30.07	+ .14	52	49	—	4	N	3	b	2	61	50	—	
Rochefort ..	30.02	61	NNW	4	0	30.09	+ .08	55	53	—	3	E	4	c	2	68	50	—	
Belfort ..	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	
Lyons ..	29.96	59	W	1	c	30.06	+ .13	52	48	—	8	NE	1	b	*	69	46	—	
Nice ..	29.76	66	ENE	1	b	29.84	+ .08	64	55	—	2	E	3	b	2	75	59	—	
Perpignan ..	29.96	65	NW	3	0	30.04	+ .08	62	58	—	2	NW	3	0	*	73	54	—	
Biarritz ..	30.01	65	NW	3	0	30.03	+ .02	59	58	—	4	SE	4	0	2	66	55	0.12	
Coruna ..	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	
Lisbon ..	29.98	64	NW	5	b	30.06	+ .08	63	60	—	1	N	5	b	2	75	60	—	

For Explanation of Columns, see p. 1.



# WEATHER CHARTS

Wednesday, 14<sup>th</sup> September 1887.  
for 8 a.m. on

## BAROMETER, WIND & SEA.

(Explanation of Map)

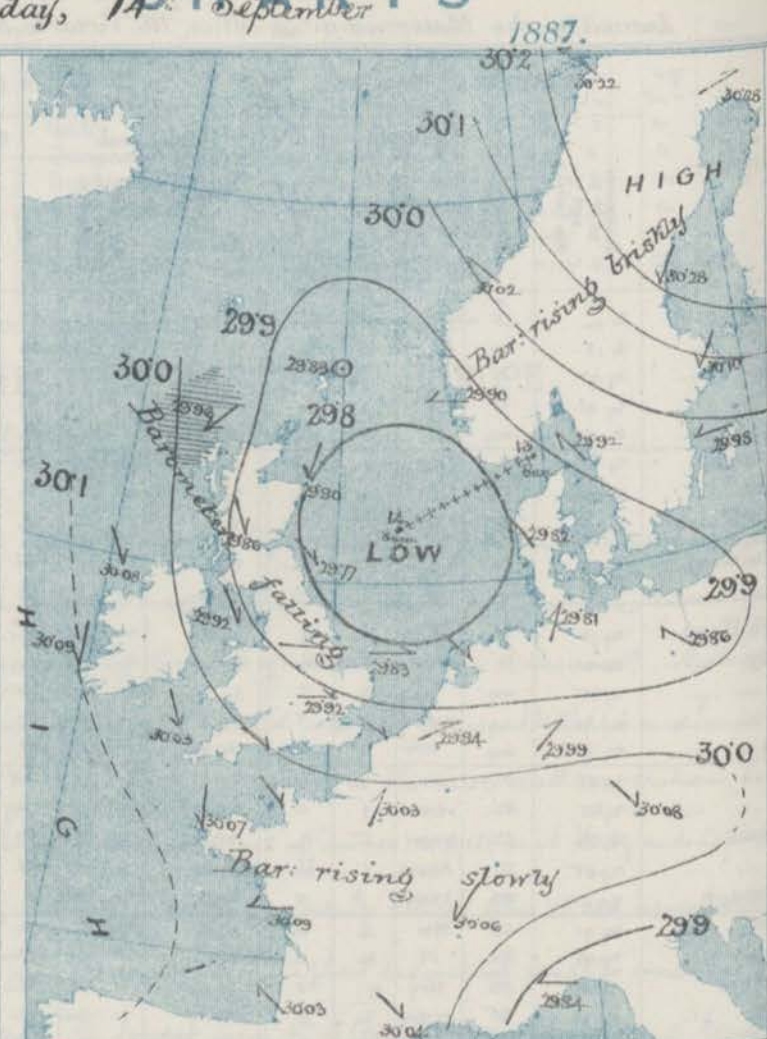
**Barometer** — Isobars are drawn for each tenth of an inch. Changes since previous morning are stated in words.  
**Wind** — Arrows show the prevalent winds. They fly with the wind and their barbs and feathers refer to force, thus —  
→ = forces above 10; → = forces 8 to 10;  
→ = forces 5 to 7; → =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

STATIONS.	MEAN READINGS.
	in.
Sumburgh Head	29.758
Stornoway	29.781
Wick	29.786
Nairn	29.812
Aberdeen	29.815
Leith	29.851
Shields	29.876
York	29.913
Ardrossan	29.858
Donaghadee	29.875
Holyhead	29.903
Liverpool	29.910
Valencia	29.929
Roche's Point	29.923
Pembroke	29.924
Scilly	29.960
Hurst Castle	29.978
Dover	29.955
LONDON	29.956
Oxford	29.943
Cambridge	29.943
Yarmouth	29.928



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

**Temperature** — Isotherms are drawn for each 1° change 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 September

STATIONS	TEMPERATURE				RAINFALL (Inches)
	Daily Max.	Daily Min.	At 8 a.m.	At 8 a.m.	
			Dry	Wet	
Sumburgh Head	55.2	46.2	50.6	49.0	3.46
Stornoway	55.9	45.4	51.0	49.7	4.13
Wick	57.5	45.8	51.6	49.7	2.00
Nairn	59.0	47.0	51.3	48.8	2.73
Aberdeen	58.0	47.1	52.0	49.6	3.22
Leith	62.7	47.8	53.6	51.1	2.47
Shields	60.0	49.0	53.4	51.2	2.58
York	63.2	47.8	53.1	51.2	2.98
Ardrossan	59.9	49.9	53.6	51.0	3.87
Donaghadee	59.5	49.2	53.3	52.1	3.22
Holyhead	61.1	53.1	55.6	53.4	3.35
Liverpool	61.3	51.2	54.7	52.0	3.56
Valencia	61.9	52.0	56.4	53.9	4.87
Roche's Point	62.0	51.7	55.4	53.2	4.39
Pembroke	60.4	53.4	56.3	53.9	3.89
Scilly	61.9	55.2	58.5	56.5	3.69
Hurst Castle	64.4	52.9	57.8	56.3	3.35
Dover	63.1	52.8	58.3	55.4	2.86
LONDON	65.9	49.3	56.4	54.0	2.50
Oxford	63.8	49.0	54.2	52.4	2.91
Cambridge	65.8	48.5	54.5	52.9	2.48
Yarmouth	62.3	50.8	56.3	54.4	3.17

NOTE — The Temperature means are for the 10 years 1871—80; the Rainfall means are mainly those for the 30 years 1863—85.





# GENERAL SITUATION AT 8 A.M.

## PRESSURE

Highest, 30.20 to 30.30 ins. over north of Sweden, 30.10 ins. off the southwest of Ireland & over the Bay of Biscay, 30.08 ins. at Munich.  
Lowest, apparently about 29.7 ins. over North Sea and off our northeast coast.  
Gradients moderate - for S.E. and E. winds over Scandinavia, for N. and N.W. winds in the British Islands.  
Barometer falling in northeast and east of our islands, rising elsewhere.

## TEMPERATURE

Highest, 64° at Nice, 63° at Lisbon, 61° at Wexley, 56° at Valencia.  
Lowest, 43° at Paris, 46° at Munich, 47° at Cuxhaven, 48° at Leith and 49° at Shields and in London.  
It has fallen fast in France and Germany, but risen over Scandinavia and the British Islands.

## WIND

Moderate N.E. in Sweden, E. in Norway, S.E. in Denmark.  
Light to fresh N. in Scotland and Ireland, N.W. and W. in England.  
Variable in France, S.W. to S.E. over Germany.

## WEATHER

dull and very rainy on our northeast coasts and over Germany.  
 Fine at the southwestern & southern stations and over Scandinavia, cloudy elsewhere and unsettled.  
 [Heavy rain has fallen in the northeast and over part of Germany; thunder has occurred at C. Eric Neg.]

## SEA

Rather rough in the north, moderate in the Irish Channel, slight or smooth elsewhere.

## PROBABLE CHANGES IN SYSTEM NOW PREVALENT

As the depression mentioned above advances over England the rainy weather will probably spread over the whole country, with local thunderstorms.

The system, however, is very likely to fill up shortly.

## FORECASTS

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

### DISTRICTS.



### FORECASTS.

0	SCOTLAND NORTH	N <sup>ly</sup> and N.E. <sup>ly</sup> breezes, moderate; rainy to fair.
1	SCOTLAND EAST	.....D.....D.....D.....
2	ENGLAND N.E.	N.W. and varying winds, moderate; rainy, then finer.
3	ENGLAND EAST	Same as N <sup>o</sup> 5.
4	MIDLAND COUNTIES	Same as N <sup>o</sup> 2
5	ENGLAND SOUTH	N <sup>ly</sup> breezes, light; fine at first, uncertain later, but possibly very rainy, thunder locally

### DISTRICTS.

### FORECASTS.

6	SCOTLAND WEST	N.W. <sup>ly</sup> breezes; cloudy, some rain.
7	ENGLAND N.W.	.....D.....D.....D.....
8	ENGLAND S.W.	N.W. <sup>ly</sup> to W. <sup>ly</sup> breezes, moderate; fair.
9	IRELAND NORTH	N <sup>ly</sup> and N.W. <sup>ly</sup> breezes, moderate; fair.
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	60	52	ENE, 2	c	3	Holyhead ...	29.97	55	48	NNW 3	b	3
Sumburgh Head ...	29.75	52	49	NNE 3	o	3	Valencia ...	30.09	61	55	NNW 2	ev	2
Stornoway ...	29.99	52	51	N 5	o	4	Scilly ...	30.00	57	57	N 5	c	4
Aberdeen ...	29.63	54	50	NNW 5	c	2	Dungeness ...	29.79	58	57	N 4	c	2
Shields ...	29.85	50	48	N 4	o/p	4	London ...	29.83	56	48	NW 3	c	3
Ardrossan ...	29.91	57	50	NW 4	b	3	Yarmouth ...	29.75	53	50	NW 4	c	3
Malin Head ...	29.92	50	49	NNW 4	o	3	Jersey ...	29.92	59	53	NW 3	bc	3
Mullaghmore ...	30.04	56	50	NNW 5	cv	2	Rocheport ...	30.01	58	56	NNW 4	o	3
Belmullet ...	30.10	57	51	NNW 2	c	3							

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

The reports for yesterday morning showed that pressure was highest, 30.1 in. and upwards, over Central and Northern Russia and relatively high, 30.0 in. and upwards, over Spain, the Bay of Biscay and the west of Ireland. The lowest readings, 29.5 in. and less, were found in a small depression lying over the north of Denmark, but a second and shallower disturbance lay over the Gulf of Genoa. Light or moderate breezes from the NW. or N. prevailed over the United Kingdom and France, SE breezes over Central Europe, SE breezes over the Baltic and E. or NE breezes in Scandinavia. Over Spain, Italy and Algeria, however, the wind was light and variable. Rain was falling at several of the more central stations and passing showers in the northeast and northwest of our islands, but elsewhere the weather though somewhat cloudy was generally fair. Temperatures had risen a little in Italy, the south of France and the north of our islands, but fallen in most other regions; readings ranged from 70° and upwards over Southern Europe to 45° or less over Central and Northern Russia. The highest individual readings were 81° at Algiers, 77° at Oran, Tunis, Brindisi and Malta and 74° at Barcelona; the lowest were 35° at Archangel, 44° at Krasnoe, 45° at Tverskoe, and 46° at Christiansund and Naum.

In the course of the day the depression over Denmark moved slightly in a westerly direction and showers fell at several of our western stations. No further change was reported.

### 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 15<sup>th</sup> September

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.		
<b>SCANDINAVIA.</b>																		
Haparanda ..	30.41	50	Z	0	b	30.47	+0.06	52	52	-3	Z	0	b	*	61	43	-	
Hernösand ...	30.39	53	NE	2	b	30.41	+0.13	54	52	0	NE	2	0	*	64	46	-	
Stockholm ...	30.21	58	ESE	4	b	30.21	+0.11	60	58	+1	ESE	4	0	*	66	52	-	
Wisby ...	30.07	60	SSE	2	b	30.12	+0.14	60	58	-1	ESE	4	0	*	70	50	-	
Bodö ...	30.28	52	Z	0	b	30.28	+0.06	57	53	+3	ESE	4	b	2	59	48	-	
Christiansund ...	30.08	57	ESE	7	b	30.05	+0.03	58	54	+5	ESE	4	b	2	63	?	-	
Skudesnaes ...	29.77	51	E	4	r	29.99	+0.09	55	51	-1	ESE	4	0	4	61	50	-	
Christiania Fjord (Færdar)	29.87	58	ESE	5	r	30.09	+0.11	56	52	+2	SSW	2	c	2	59	54	0.79	
Skagen (The Scaw)	29.88	54	S	5	b	30.09	+0.17	55	53	+1	SSW	1	b	0	59	52	0.51	
Faro ...	29.90	49	S	4	r	30.01	+0.19	47	46	-3	SE	6	b	*	54	45	0.83	
<b>BRITISH ISLANDS.</b>																		
Sumburgh Head	29.90	55	E	1	c	29.72	-0.11	51	48	-1	SSW	4	b	4	58	46	0.13	
Stornoway ...	29.85	51	N	4	rm	29.80	-0.16	50	50	0	E	3	rg	3	53	43	0.18	
Wick ...	29.86	52	SE	2	b	29.78	-0.06	50	49	-1	W	1	r	1	57	47	0.25	
Nairn ...	29.82	51	Z	0	r	29.78	-0.10	48	47	-2	SW	1	c	1	53	44	0.22	
Aberdeen ...	29.82	48	ESE	2	c	29.79	-0.01	49	48	-2	W	1	b	1	57	41	0.15	
Leith ...	29.83	50	W	1	c	29.80	-0.05	50	48	+2	W	1	b	1	53	47	0.38	
Shields ...	29.76	51	NEW	2	c	29.75	-0.02	50	49	+1	W	1	c	2	53	46	0.19	
Spurn Head ...	29.76	51	W	4	r	29.78	+0.01	51	49	+1	SW	4	c	3	54	48	0.19	
York ...	29.79	50	N	1	r	29.76	-0.04	48	47	-2	W	1	r	*	52	44	0.54	
Loughborough	29.83	52	WNW	2	r	29.85	-0.02	52	49	+2	WSW	4	c	*	60	49	0.05	
<b>GERMANY.</b>																		
Ardrossan ...	29.80	52	WNW	1	rm	29.81	-0.05	53	50	-1	Z	0	b	0	59	46	0.43	
Malin Head ...	29.86	52	NEW	4	0	29.81	-0.14	52	51	0	NEW	2	c	2	53	50	0.20	
Mullaghmore ...	29.95	53	NW	5	0	29.85	-0.19	53	51	+1	W	3	op	2	55	50	0.01	
Behaulet ...	30.00	52	N	1	0	29.89	-0.19	51	50	-1	NEW	2	r	*	59	51	0.12	
Donaghadee ...	29.85	53	N	5	0	29.83	-0.09	53	51	0	NE	3	b	1	55	49	0.02	
Barrow-in-Furness	29.79	52	NW	3	r	29.77	-0.09	48	48	-3	N	2	0	*	55	48	0.53	
Liverpool (Bidston)	29.79	52	W	3	0	29.79	-0.07	51	49	-3	WSW	3	c	3	57	50	0.62	
Holyhead ...	29.86	52	NW	5	rg	29.84	-0.08	52	49	+1	W	5	og	6	55	51	0.13	
Parsonstown ...	29.98	53	WNW	1	0	29.93	-0.12	49	47	-2	SW	1	0	*	56	47	-	
Valencia ...	30.02	57	Z	0	ov	29.97	-0.12	55	51	-1	WNW	1	b	1	61	52	-	
Roche's Point...	30.01	57	N	2	0	29.95	-0.10	54	49	+1	WNW	2	b	2	58	50	-	
Pembroke ...	29.94	54	W	4	c	29.94	-0.03	52	52	-2	W	3	odm	2	55	52	-	
Scilly ...	30.01	56	NW	5	c	29.97	-0.06	56	54	0	SW	4	cp	4	58	54	0.01	
Prawle Point ...	29.97	53	W	3	0	29.99	-0.01	56	53	+3	WSW	4	c	4	59	50	-	
Jersey ...	30.00	57	W	3	c	30.06	+0.05	59	50	+1	WSW	4	cg	3	63	54	-	
Hurst Castle ...	29.88	55	WNW	3	c	29.98	+0.02	57	53	+3	W	5	c	1	61	51	-	
Dungeness ...	29.86	57	WSW	4	c	29.96	+0.05	55	53	+2	W	4	0	3	62	52	0.03	
London ...	29.87	55	SW	1	0	29.95	+0.03	54	50	+5	W	3	0	*	61	48	-	
Oxford ...	29.89	52	W	2	0	29.93	+0.03	53	49	+4	SW	3	c	*	61	49	-	
Cambridge ...	29.82	54	SW	1	0	29.89	+0.02	53	51	+3	SW	2	0	*	60	48	0.04	
Yarmouth ...	29.82	53	W	3	c	29.86	+0.03	53	51	+5	WSW	4	c	3	55	46	0.09	
Cuxhaven ...	29.89	57	SW	1	c	30.05	+0.24	48	47	+1	SSE	3	b	*	53	44	0.28	
Berlin ...	30.09	53	SW	3	b	30.21	+0.35	47	45	-6	SSE	1	b	*	59	43	0.04	
Wiesbaden ...	*	*	*	*	*	30.16	+0.17	42	41	-9	Z	0	b	*	61	41	-	
Munich ...	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	
<b>FRANCE &amp; NETHERLANDS.</b>																		
The Helder ...	29.87	51	S	4	L	29.89	+0.09	51	50	-3	S	4	0	3	57	50	1.06	
Brussels ...	*	*	*	*	*	30.04	+0.10	52	49	+3	S	4	0	*	58	48	0.12	
Cape Gris Nez...	29.90	57	WNW	7	0	29.96	+0.13	54	51	+1	WNW	7	r	5	61	50	0.20	
Paris ...	30.01	55	SSW	3	b	30.06	+0.03	46	45	+3	Z	0	b	*	64	43	-	
Brest ...	30.07	57	N	3	0	30.07	0.00	57	53	+7	Z	0	0	3	7	46	-	
Lorient ...	30.06	58	WNW	4	0	30.12	+0.05	58	49	+6	SW	3	0	2	63	50	-	
Rocheport ...	30.08	62	NW	4	b	30.15	+0.06	52	51	-3	E	3	b	2	70	50	-	
Belfort ...	30.08	55	W	1	b	30.13	+0.05	48	43	-5	W	1	b	*	59	36	-	
Lyons ...	30.05	56	ESE	1	b	30.16	+0.10	48	46	-4	N	1	b	*	65	46	-	
Nice ...	29.93	67	SW	1	b	30.03	+0.19	64	55	0	E	1	b	2	73	58	-	
Perpignan ...	30.03	65	NW	3	0	30.10	+0.06	59	57	-3	Z	0	0	*	73	53	-	
Biarritz ...	30.03	66	NE	5	b	30.09	+0.06	60	56	+1	SW	1	0	0	75	55	-	
Corunna ...	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	
Lisbon ...	30.12	64	WNW	7	b	30.15	+0.09	61	59	-2	WNW	3	c	2	73	57	-	

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



# WEATHER CHARTS

for 8 a.m. on Thursday, 15<sup>th</sup> September 1887.

## BAROMETER, WIND & SEA.

(Explanation of Map)

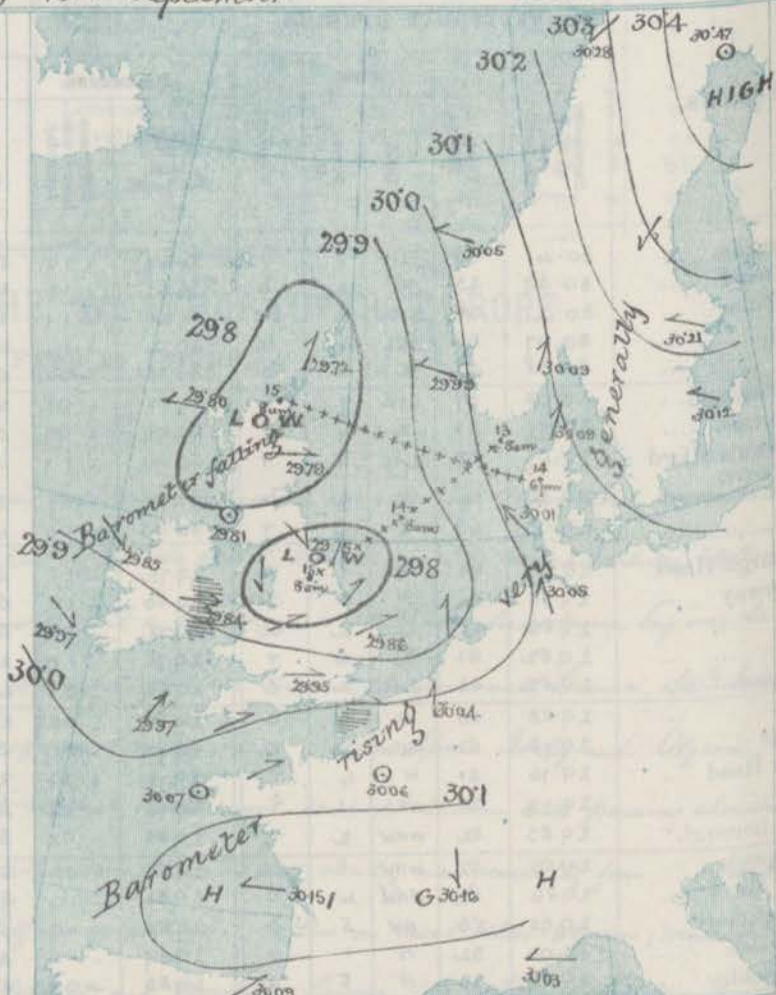
**Barometer** — Iso-bars are drawn for each tenth of an inch. Changes since previous morning are stated in words.  
**Wind** — Arrows show the prevalent winds. They fly with the wind and their barbs and feathers refer to force, thus —  
 \* — forces above 10; \* — forces 8 to 10;  
 — forces 5 to 7;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

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

## MEAN HEIGHT of the BAROMETER

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

STATIONS.	MEAN READING
	in.
Sumburgh Head	29.758
Stornoway	29.781
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York	29.918
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Holyhead	29.908
Liverpool	29.910
Valencia	29.929
Roche's Point	29.933
Pembroke	29.924
Scilly	29.900
Hurst Castle	29.978
Dover	29.955
LONDON	29.956
Oxford	29.948
Cambridge	29.948
Yarmouth	29.928



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

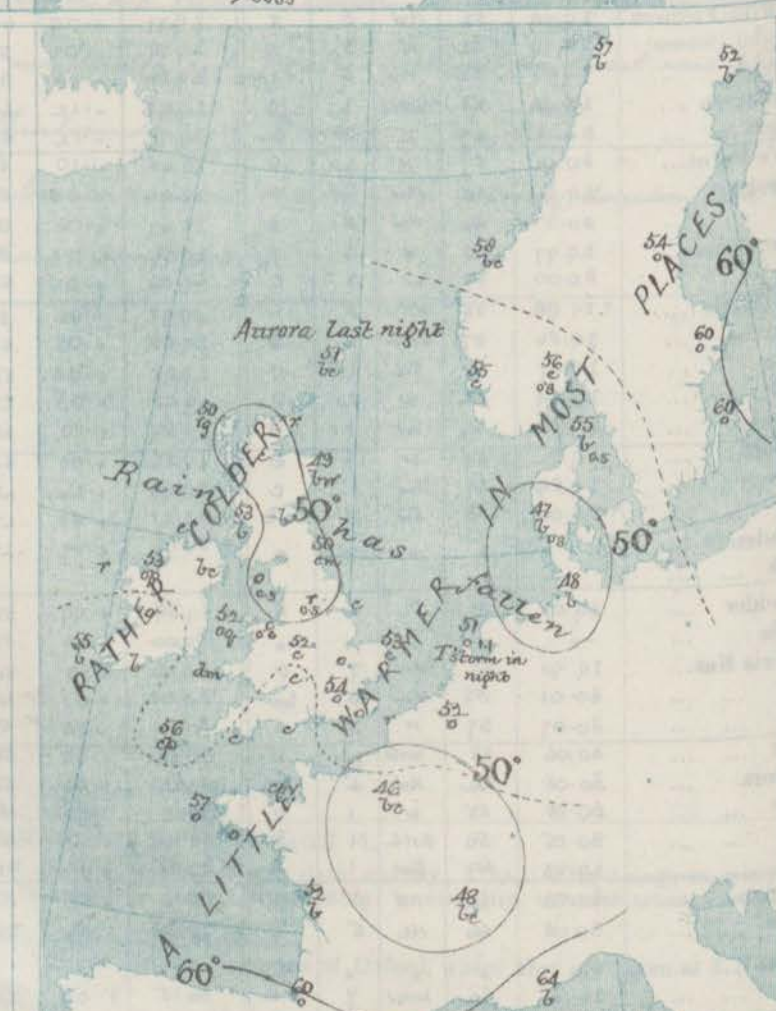
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**Weather** — is shown by Letters of the Beaufort Scale.  
**Rainfall** — A dotted line separates the districts in which rain has fallen from those where there has been none. Falls of 0.5 in. or more, are quoted in figures.

## MEANS OF TEMPERATURE IN SHADE. AND RAINFALL.

for the month of September.

STATIONS	TEMPERATURE				RAINFALL. (Inches)
	Daily Max.	Daily Min.	At 8 a.m.	At 8 p.m.	
			Dry	Wet	
Sumburgh Head	55.2	46.2	50.6	49.0	8.46
Stornoway	55.9	45.4	51.0	49.7	4.13
Wick	57.5	45.8	51.6	49.7	2.66
Nairn	59.0	47.0	51.3	48.8	2.78
Aberdeen	58.0	47.1	52.0	49.6	3.22
Leith	62.7	47.8	53.5	51.1	2.47
Shields	61.0	49.0	53.4	51.2	2.58
York	63.2	47.8	53.1	51.2	2.96
Ardrossan	59.9	49.9	53.6	51.0	3.87
Donaghadee	59.5	49.2	53.3	52.1	3.22
Holyhead	61.1	53.1	55.6	53.4	3.35
Liverpool	61.3	51.2	54.7	52.0	3.56
Valencia	61.9	52.0	56.4	53.9	4.87
Roche's Point	62.0	51.7	55.4	53.7	4.39
Pembroke	60.4	53.4	56.3	53.9	3.99
Scilly	61.9	55.2	58.5	56.5	3.69
Hurst Castle	64.4	53.9	57.8	56.3	3.35
Dover	63.1	52.8	58.3	55.4	2.86
LONDON	66.9	49.3	56.4	54.0	2.59
Oxford	63.8	49.0	54.2	52.4	2.91
Cambridge	65.8	48.5	54.5	52.9	2.48
Yarmouth	62.3	50.8	56.3	54.4	3.17

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, 30.3 to 30.4 ins. over the north of Sweden, 30.10 ins. and more over Central France.  
Lowest, 29.75 ins. at Shields and 29.7 ins. at Lumburg Head.  
Gradients moderate - for W. winds in the south, and for S. to SE. in the east and north-east.  
Barometer rising in the south and east, falling in north-west.

## TEMPERATURE

Highest, 64° at Nice, 61° at Lisbon, 60° at Biarritz, Stockholm and Vidy.  
Lowest, 46° at Paris, 47° at Tunis, 48° at Copenhagen, Barrow in Turners, and Naum.  
It is now rising in the south, but has fallen in Ireland and Scotland since yesterday.

## WIND

Moderate from SE. in Norway and Denmark - Moderate S. in the Netherlands.  
Moderate to fresh from W. and SW. over England and the Channel.  
Light NW. in Ireland - light and variable in Scotland.

## WEATHER

Fine in France, the Netherlands and the eastern shores of the North Sea.  
Cloudy over our Islands, with steady rain at several northern and northwestern stations. Shower in the southeast.  
[Much rain has fallen in the northwest and north, as well as on the North Sea, and thunderstorms have occurred locally.]

## SEA

Very little disturbed.

## PROBABLE CHANGES IN SYSTEM NOW PREVALENT

As the depressions in the north pass off or fill up the weather there will improve temporarily, but the distribution of pressure and the changes reported are indicative of showery but milder weather generally.

## FORECASTS

For the 24 hours ending at NOON on 16<sup>th</sup> Sept<sup>r</sup>

1887.

### DISTRICTS.

### FORECASTS.

0	SCOTLAND NORTH	S <sup>w</sup> winds, moderate; some showers, milder
1	SCOTLAND EAST	-----D°-----D°-----D°-----
2	ENGLAND N.E.	Same as No 4
3	ENGLAND EAST	Same as No 5
4	MIDLAND COUNTIES	SW <sup>ly</sup> winds, mild, cloudy, rain at times.
5	ENGLAND SOUTH	W <sup>ly</sup> to S <sup>ly</sup> winds, moderate, cloudy, rain at times. Mild.

### DISTRICTS.

### FORECASTS.

6	SCOTLAND WEST	Wind shifting to SW. and S, moderate, showery.
7	ENGLAND N.W.	-----D°-----D°-----D°-----
8	ENGLAND S.W.	SW <sup>ly</sup> to W <sup>ly</sup> winds, fresh, showery.
9	IRELAND NORTH	NW <sup>ly</sup> to SW <sup>ly</sup> winds, light, rain at times.
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 ...	29.93	60	52	20 0	0	2	Holyhead ...	29.89	55	52	W 5	0 m q	4
Sumburgh Head ...	29.87	56	52	E 1	bc	3	Valencia ...	30.05	60	54	W 1	c v	1
Stornoway ...	29.89	51	51	W 5	r	4	Scilly ...	30.02	58	56	W 4	c	3
Aberdeen ...	29.81	55	53	NE 2	bc	2	Dungeness ...	29.88	59	55	WNW 4	c	3
Shields ...	29.76	51	50	W 2	or	4	London ...	29.88	60	51	W 2	c	3
Ardrossan ...	29.81	56	54	W 4	0	3	Yarmouth ...	29.81	54	51	W 3	c	3
Malin Head ...	29.91	53	50	WNW 4	0	3	Jersey ...	30.00	60	53	WNW 4	bc	3
Mullaghmore ...	30.00	53	49	W 5	0	3	Rocheport ...	30.10	64	58	W 4	b	?
Belmullet ...	30.05	54	48	WNW 1	0 q	*							

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

The reports for yesterday morning showed that pressure was highest 30.3 in: and upwards, over Central and Northern Russia but high 30.1 in: and upwards to the SW of the British Isles. The lowest reading 29.8 in: and less, were found in a large shallow depression which lay over the North Sea, but a trough of low pressure extended in a southeasterly direction from Great Britain to Central Europe and the Adriatic. Moderate to strong NW breezes prevailed over the British Isles and also in the south of France, but in Spain, Algeria and the north of France the wind was rather variable and over the Netherlands it was SW, while over Scandinavia and the Baltic it varied between SE. and E. The weather was rainy in the northeast of Great Britain, and cloudy over Northwestern Europe generally, but fair or fine elsewhere. Temperature had risen a little over our Islands, Scandinavia, and the greater part of Russia but fallen elsewhere, readings ranged from 75° and upwards over Algeria and South Italy to 45° or less over Northern Russia and at some of the inland French stations. The highest individual readings were 79° at Algiers, La Calle, and Lfay, 78° at Biskra, 77° at Khiridi and Malta and 73° at Loran; the lowest were 41° at Uleaborg and Le Mans, 42° at Kuopio, 43° at Paris, 45° at Charleville and Nantes, and 46° at Munich and Besancon.

In the course of the day the depression over the North Sea moved slowly westwards over the north of England, while a new disturbance began to form near Denmark. Rain fell at all our more northern stations and slight showers in the south.

### EXPLANATION OF COLUMNS GIVEN ON PAGE 1.

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

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

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



# DAILY WEATHER REPORT.

for Friday 16<sup>th</sup> September 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. Reading at 32° F. and Sea Level.	Difference from 8 a.m. yesterday.	SHADE TEMP.			WIND.		Weather.	Sea. (0 to 9.)	SHADE TEMP.		Amount of Rainfall.	
			Dir.	Force. (0 to 12.)				Dry.	Wet.	Difference from 8 a.m. yesterday.	Dir.	Force. (0 to 12.)			Max.	Min.		
SCANDINAVIA.																		
Haparanda ..	30.40	44	Z	0	b	30.28	-19	53	51	+1	S	2	b	*	59	43	-	
Hernösand ..	30.34	47	Z	0	b	30.20	-21	53	52	+1	E	2	o	*	55	46	-	
Stockholm ...	30.21	50	E	2	o	30.12	-09	59	57	-1	SSW	2	o	*	62	55	0.32	
Wisby ...	30.20	57	NE	2	e	30.17	+05	58	55	-2	W	4	bc	*	64	50	-	
Bodö ...	30.22	58	E	2	b	30.08	-20	59	55	+2	E	2	b	1	66	52	-	
Christiansund...	30.10	54	SSE	1	b	30.03	-02	60	48	-8	S	1	bc	1	59	45	-	
Skudesnaes ...	29.99	57	SE	0	c	29.98	-01	55	50	0	E	4	o	3	59	55	-	
Christiania Fjord (Fjorder)	30.15	56	SSE	2	b	30.08	-01	52	51	-4	ESE	2	o	2	59	52	-	
Skagen (The Scaw)	30.12	56	S	4	b	30.01	-08	55	53	0	S	5	o	3	59	52	0.28	
Fanö ...	30.04	57	S	2	r	30.00	-01	53	52	+6	WSE	4	c	*	61	45	0.91	
BRITISH ISLANDS.																		
Sumburgh Head	29.84	52	ESE	3	r	29.89	+17	52	52	+1	ESE	1	o	5	56	47	0.11	
Stornoway ...	29.75	50	SW	3	o	29.86	+06	51	51	+1	E	3	o	3	51	41	0.32	
Wick ...	29.72	52	E	1	o	29.84	+09	51	50	+1	S	2	bc	0	59	47	0.08	
Nairn ...	29.79	48	W	1	b	29.85	+07	48	45	0	SW	1	bc	1	59	43	-	
Aberdeen...	29.79	54	NE	1	bc	29.85	+06	49	48	0	Z	0	c	0	58	43	0.07	
Leith ...	29.80	55	W	1	c	29.87	+07	51	50	+1	W	1	cm	*	63	47	0.12	
Shields ...	29.84	53	W	1	c	29.88	+13	49	48	-1	SW	3	o	2	55	47	0.24	
Spurn Head ...	29.86	54	WSE	3	bc	29.98	+21	52	50	+1	SSW	3	bm	3	54	47	0.02	
York ...	29.89	54	W	1	bc	29.96	+20	49	47	+1	S	2	b	*	57	43	0.03	
Loughborough	29.94	54	WNW	1	c	30.01	+16	52	50	0	WSE	3	opd	*	58	41	0.04	
Ardrossan ...	29.82	55	W	1	p	29.87	+06	53	50	0	WNW	3	p	2	58	49	0.37	
Malin Head ...	29.83	53	WNW	3	op	29.87	+06	53	51	+1	W	3	c	3	57	51	0.13	
Mullaghmore ...	29.89	55	W	3	bc	29.94	+09	54	52	+1	W	2	c	2	59	51	0.15	
Belmullet ...	29.91	56	WNW	1	c	29.97	+08	54	52	+3	N	1	o	*	59	53	0.08	
Donaghadee ...	29.86	54	W	2	bc	29.92	+09	50	50	-3	W	2	c	1	57	48	0.08	
GERMANY.																		
Barrow-in-Furness	29.87	55	SW	2	b	29.93	+16	55	52	+7	WNW	2	c	*	57	48	-	
Liverpool (Bidston)	29.91	52	W	2	bc	29.96	+17	55	52	+4	SW	1	bc	2	55	49	0.28	
Holyhead ...	29.91	55	SW	2	bc	29.95	+11	56	53	+4	W	1	bc	2	58	51	0.01	
Parsonstown ...	29.94	54	Z	0	r	29.98	+05	53	52	+4	Z	0	o	*	55	48	0.11	
Valencia ...	29.98	60	WSW	2	c	30.00	+03	57	55	+2	Z	0	o	1	62	55	-	
Roche's Point...	29.97	57	WSW	4	c	30.00	+05	56	55	+2	SW	1	r	2	60	52	-	
Pembroke ...	29.97	56	W	3	c	30.01	+07	57	56	+5	SSW	3	cp	3	57	51	-	
Seilly ...	30.03	56	WNW	4	o	30.03	+06	59	58	+3	SSE	2	o	2	61	52	0.01	
Prawle Point ...	30.00	57	SW	5	c	30.10	+11	57	56	+1	SW	2	c	3	61	50	-	
Jersey ...	30.09	62	NE	3	c	30.13	+07	62	56	+3	SW	3	c	3	64	58	-	
NETHERLANDS.																		
Hurst Castle ...	30.00	59	NE	6	c	30.10	+12	57	55	0	WNW	2	c	2	63	46	0.03	
Dungeness ...	30.00	59	W	1	c	30.08	+12	56	54	+1	W	3	c	3	61	49	0.06	
London ...	30.00	55	SW	3	or	30.08	+13	54	52	0	SW	1	c	*	61	49	0.05	
Oxford ...	29.99	52	SW	1	r	30.07	+14	54	52	+1	SW	1	c	*	58	48	0.19	
Cambridge ...	29.97	54	SW	2	r	30.07	+18	53	51	0	SW	1	o	*	60	45	0.01	
Yarmouth ...	29.94	56	NE	3	bc	30.02	+16	50	49	-3	W	3	bc	3	57	45	0.01	
Cuxhaven ...	30.05	51	SSE	2	o	30.10	+05	51	50	+3	S	2	c	*	51	?	0.10	
Berlin ...	30.19	57	Z	0	b	30.21	00	50	49	+3	SSE	1	b	*	63	46	-	
Wiesbaden ...	*	*	*	*	*	30.24	+08	47	45	+5	S	1	bc	*	64	43	-	
Munich ...	30.23	50	Z	0	b	30.27	-	49	48	-	E	1	b	*	59	39	-	
FRANCE.																		
The Helder ...	29.98	55	SW	4	E	30.01	+12	53	51	+2	S	4	c	3	57	?	1.10	
Brussels ...	*	*	*	*	*	30.15	+11	53	50	+1	SW	5	c	*	59	49	-	
Cape Gris Nez...	30.06	59	W	7	c	30.09	+13	56	54	+2	W	7	c	5	61	52	0.24	
Paris ...	30.15	54	WNW	1	bc	30.21	+15	45	45	-1	Z	0	bc	*	65	41	-	
Brest ...	30.08	60	SW	4	o	30.10	+03	59	55	+2	S	5	o	3	64	50	-	
Lorient ...	30.12	61	W	4	bc	30.14	+02	58	55	0	SE	3	c	2	64	50	-	
Rocheport ...	30.17	66	NE	3	c	30.17	+02	54	51	+2	ESE	4	b	2	73	50	-	
Belfort ...	30.17	56	SSE	1	b	30.22	+09	56	50	+8	W	1	b	*	64	43	-	
Lyons ...	30.16	59	ESE	1	b	30.22	+06	52	49	+4	N	1	b	*	67	46	-	
Nice ...	29.97	67	SE	1	b	30.12	+09	68	58	+4	E	3	b	2	72	55	-	
Perpignan ...	30.12	62	Z	0	b	30.17	+07	57	57	-2	NE	1	b	*	75	51	-	
Biarritz ...	30.11	67	NE	4	b	30.11	+02	63	57	+3	SW	3	b	0	70	57	-	
Corunna ...	*	*	*	*	*	30.12	-03	59	59	-2	NE	1	m	2	70	57	-	
Lisbon ...	30.17	64	NE	4	b	30.12	-03	59	59	-2	NE	1	m	2	70	57	-	

For Explanation of Columns, see p. 4.



# WEATHER CHARTS

for 8 a.m. on *Friday, 16<sup>th</sup> September.*

1887.

## BAROMETER, WIND & SEA.

(Explanation of Map)

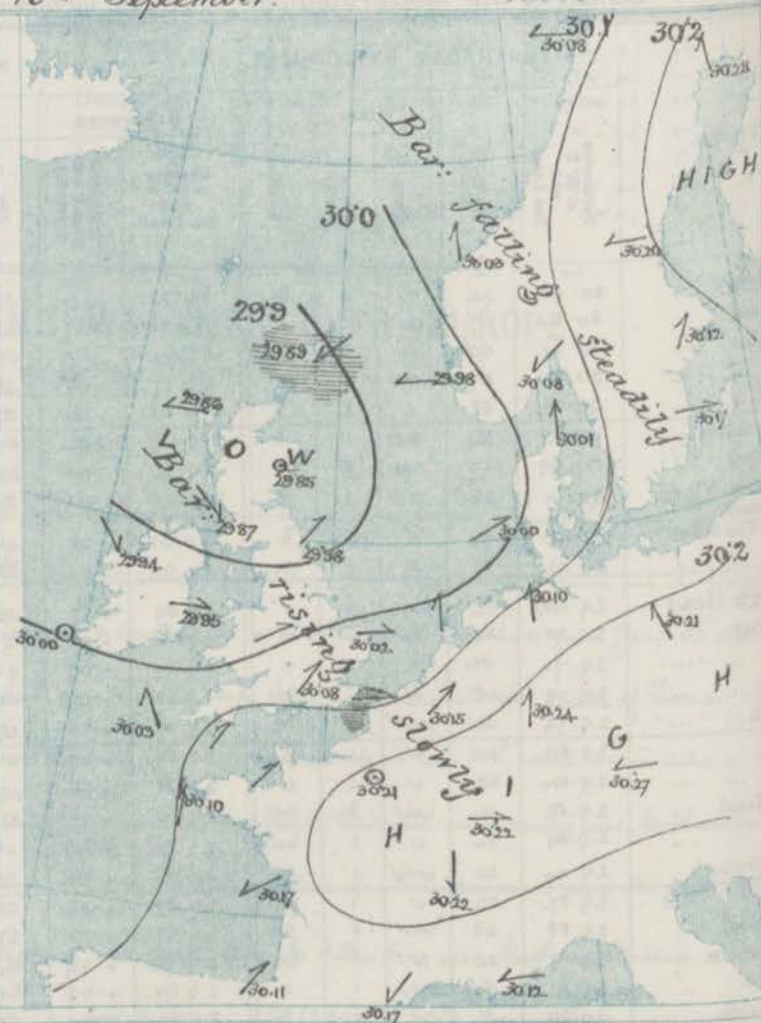
**Barometer**—Isobars are drawn for each tenth of an inch. Changes since previous morning are stated in words.  
**Wind**—Arrows show the prevalent winds. They fly with the wind and their barbs and feathers refer to force, thus—  
 — force above 10; — force 8 to 10;  
 — force 5 to 7; — force 1 to 4;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

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

## MEAN HEIGHT of the BAROMETER

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

STATIONS.	MEAN READINGS.
	in.
Sumburgh Head	29.758
Stornoway	29.781
Wick	29.790
Nairn	29.812
Aberdeen	29.815
Leith	29.851
Shields	29.876
York	29.913
Ardrossan	29.858
Donaghadee	29.875
Holyhead	29.903
Liverpool	29.910
Valencia	29.929
Roche's Point	29.923
Pembroke	29.924
Scilly	29.960
Hurst Castle	29.978
Dover	29.955
LONDON	29.956
Oxford	29.943
Cambridge	29.943
Yarmouth	29.928



## 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.

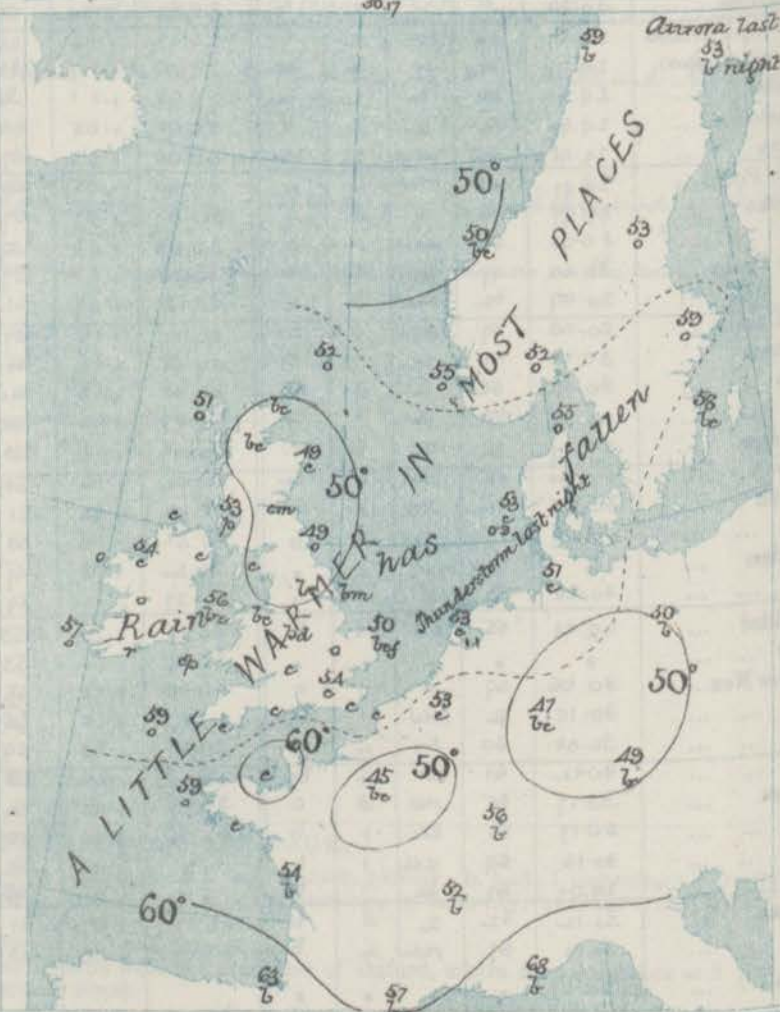
**Rainfall**—A dotted line separates the districts in which rain has fallen from those where there has been none. Falls of 0.5 in. or more, are quoted in figures.

## MEANS OF TEMPERATURE IN SHADE. AND RAINFALL.

for the month of September.

STATIONS	TEMPERATURE				RAINFALL (Inches)
	Daily Max	Daily Min	Avg & St.	Dis. Wet	
Sumburgh Head	55.2	40.2	50.8	49.0	3.46
Stornoway	55.9	45.4	51.0	49.7	4.13
Wick	57.5	45.8	51.6	49.7	2.08
Nairn	59.0	47.0	51.3	48.8	2.78
Aberdeen	58.0	47.1	52.0	49.6	3.28
Leith	62.7	47.8	55.5	51.1	2.47
Shields	60.0	49.0	53.4	51.2	2.58
York	68.2	47.3	53.1	51.3	2.98
Ardrossan	59.9	49.9	53.6	51.0	3.87
Donaghadee	59.5	49.2	53.3	52.1	3.22
Holyhead	61.1	53.1	56.6	53.4	3.35
Liverpool	61.3	51.2	54.7	52.0	3.56
Valencia	61.9	52.0	56.4	53.9	4.87
Roche's Point	62.0	51.7	56.4	53.2	4.89
Pembroke	60.4	53.4	56.8	53.9	3.90
Scilly	61.9	55.2	58.5	56.5	3.69
Hurst Castle	64.4	52.9	57.8	55.3	3.35
Dover	68.1	62.8	65.3	65.4	2.86
LONDON	66.9	49.8	56.4	54.0	2.59
Oxford	63.8	49.0	54.2	52.4	2.91
Cambridge	65.8	48.5	54.5	52.9	2.43
Yarmouth	62.3	50.8	56.3	54.4	3.17

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 more over the Gulf of Bothnia, and also over Germany and Central France.  
Lowest, 29.7 to 29.8 in. over Scotland. Gradients are slight. Barometer rising slowly in most places, but falling over Northern Europe and the Gulf of Bothnia.

## TEMPERATURE

Highest, 68° at Nice, 63° at Biarritz, 62° at Jersey, and 59° at Stockholm, Oslo, and Scilly.  
Lowest, 46° at Paris, 47° at Wiesbaden, 48° at Tain, and 49° at Shields, York and Munich.  
It is apparently increasing in most places, though still so low over France and Germany.

## WIND

Varies greatly in direction, but is light generally.  
It is chiefly NW<sup>ly</sup> on our north coast coasts. W<sup>ly</sup> and SW<sup>ly</sup> over England.  
E<sup>ly</sup> at our extreme northern stations and Shetland as well as over the north of Scandinavia.

## WEATHER

Remains showery in several places, but is improving slowly over the United Kingdom.  
The rainfall over the British Islands yesterday was slight, but a large amount fell in Denmark and the Netherlands, where also thunder and lightning occurred.

## SEA

Slight or smooth except at C<sup>o</sup>ris Key, where it is rough locally.

## PROBABLE CHANGES IN SYSTEM NOW PREVALENT

As the Scotch depression fills up and the Scandinavian high pressure area gives way, the wind will probably become more generally SW<sup>ly</sup>, with finer and warmer weather in the south and east, but showers in the west and north.

## FORECASTS

For the 24 hours ending at NOON on 17<sup>th</sup> SEPT<sup>r</sup>

1887.

### DISTRICTS.

### FORECASTS.

0	SCOTLAND NORTH	Varying light breezes; fair as a whole.
1	SCOTLAND EAST	----- D <sup>o</sup> ----- D <sup>o</sup> ----- D <sup>o</sup> -----
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> breezes, moderate or light; fair as a whole.



### DISTRICTS.

### FORECASTS.

6	SCOTLAND WEST	SW <sup>ly</sup> breezes, moderate; some rain.
7	ENGLAND N.W.	----- D <sup>o</sup> ----- D <sup>o</sup> ----- D <sup>o</sup> -----
8	ENGLAND S.W.	Wind becoming S <sup>ly</sup> or SW <sup>ly</sup> ; local showers, with bright intervals.
9	IRELAND NORTH	----- D <sup>o</sup> ----- D <sup>o</sup> ----- D <sup>o</sup> -----
10	IRELAND SOUTH	----- D <sup>o</sup> ----- 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.	Dry.	Wet.	Wind.	Wea.	Sea.		Bar.	Dry.	Wet.	Wind.	Wea.	Sea.
Skudesnes ...	29.98	59	52	ESSE 5	c	3	Holyhead ...	29.90	56	52	W 3	c	4
Sumburgh Head ...	29.84	55	52	SE 3	bc	4	Valencia ...	29.98	60	56	SW 3	c	4
Stornoway ...	29.75	49	49	W 3	r	3	Scilly ...	29.99	58	54	W 5	c	5
Aberdeen ...	29.76	57	53	W 2	c	1	Dungeness ...	29.98	59	55	W 5	c	4
Shields ...	29.80	53	50	SSSE 1	c	2	London ...	29.67	60	55	SW 4	c	*
Ardrossan ...	29.82	57	52	SSW 2	o	1	Yarmouth ...	29.90	55	51	WSW 3	c	3
Malin Head ...	29.82	54	52	W 2	o	2	Jersey ...	30.08	64	58	SW 3	bc	3
Mullaghmore ...	29.88	56	53	SW 3	bc	2	Rocheport ...	30.17	68	60	W 3	b	2
Belmullet ...	29.90	58	55	E 1	c	*							

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

The reports for yesterday morning showed that pressure was highest 30.5 ins: and upwards, over Lapland and the White Sea, but high 30.1 ins: and upwards over the whole of northern and Central Europe as well as in Portugal. The lowest readings 29.8 ins: and less, were found in two depressions lying respectively over Scotland and the north of England. Moderate or fresh E<sup>3</sup> breezes were reported over the whole of Northern Europe, and W or SW breezes over the south of our Islands and the north of France, but elsewhere the wind was light and variable. Rain was falling in the north and northwest of our Islands and showers in the southwest, but elsewhere the weather was mostly fair. Temperature had fallen in the north and west of our Islands as well as in Germany and Italy, but risen in most other regions; readings ranged from 45° and upwards over Algeria and South Italy, and some parts of Spain to 50° or less, over the north of our Islands and also over Northern Russia and Central France. The highest individual readings were 82° at Algiers, 80° at La Felle, 78° at Biskia and Palma, 77 at Giza and 76° at Oran, Brindisi, and Malta; the lowest were 42° at Besancon, 44° at Bleaton and Clermont, 45° at Nancy and Charleville, 46° at Kiosco and Paris and 47° at Rio.

In the course of the day the depression over Scotland moved slightly westward, while that over Northern England slowly dispersed. Showery weather continued, however, in most parts of the Kingdom and temperature remained very low for the time of year.

### 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 17<sup>th</sup> September

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 ..	30.12	54	W	0	0	30.11	- .17	55	52	+ 2	S	2	0	*	57	43	-	
Hernösand ...	30.10	53	SSW	2	0	30.19	- .01	50	49	- 3	SSW	2	0	*	55	45	0.47	
Stockholm ...	30.24	52	W	0	0	30.26	+ .14	57	55	- 2	S	4	0	*	63	52	-	
Wisby ...	30.23	52	N	4	0	30.25	+ .08	54	53	- 4	SSW	4	0	*	61	50	-	
Bodo ...	30.03	52	W	0	0	30.03	- .05	49	48	- 10	W	0	0	0	59	48	-	
Christiansund...	30.03	52	W	1	0	30.09	+ .06	50	50	0	W	2	1	1	56	48	0.16	
Skudesnaes ...	30.04	53	W	0	0	30.10	+ .12	54	52	- 1	W	0	0	3	?	?	-	
Christiania Fjord (Fjorden)	30.06	55	SSW	2	0	30.09	+ .01	52	52	0	W	2	1	1	55	52	0.35	
Skagen (The Sow)	30.08	53	W	1	0	30.08	+ .07	54	53	- 1	W	0	0	0	57	50	0.51	
Fanö ...	30.09	55	W	2	0	30.09	+ .09	57	56	+ 4	SSW	4	0	*	59	52	0.04	
BRITISH ISLANDS.																		
Sumburgh Head	29.99	52	ENE	1	0	30.16	+ .27	51	49	- 1	NE	1	0	2	55	46	0.02	
Stornoway ...	30.00	54	E	3	0	30.24	+ .38	51	51	0	E	3	0	3	57	44	0.04	
Wick ...	29.99	52	E	1	0	30.22	+ .35	51	50	0	E	1	0	0	61	44	-	
Nairn ...	29.98	53	E	1	0	30.21	+ .36	51	49	+ 3	W	1	0	1	60	47	-	
Aberdeen ...	29.95	53	NE	1	0	30.15	+ .30	53	52	+ 4	N	3	0	1	57	48	0.02	
Leith ...	29.94	53	SE	1	0	30.15	+ .28	51	49	0	W	1	0	*	57	48	-	
Shields ...	29.95	52	W	0	0	30.09	+ .21	52	50	+ 3	W	2	0	2	59	43	0.15	
Spurn Head ...	30.01	53	S	3	0	30.09	+ .11	51	51	- 1	W	3	0	2	59	43	0.08	
York ...	29.98	55	SSW	1	0	30.11	+ .15	47	46	- 2	W	1	0	*	60	41	0.07	
Loughborough	30.05	52	W	1	0	30.11	+ .10	50	50	- 2	W	1	0	*	60	49	0.45	
Ardrossan ...	29.95	56	W	2	0	30.19	+ .32	52	49	- 1	W	1	0	1	58	45	0.17	
Malin Head ...	29.98	54	W	2	0	30.19	+ .32	54	51	+ 1	W	3	0	3	56	52	0.09	
Mullaghmore ...	30.02	57	W	3	0	30.19	+ .23	55	52	+ 1	W	1	0	2	61	49	0.08	
Belmullet ...	30.06	55	W	2	0	30.22	+ .25	56	52	+ 2	W	3	0	*	59	47	-	
Donaghadee ...	29.99	55	W	2	0	30.18	+ .26	54	52	+ 4	W	4	0	2	62	47	0.11	
Barrow-in-Furness	29.98	56	W	2	0	30.12	+ .19	54	51	- 1	W	1	0	*	58	46	0.03	
Liverpool (Bidston)	30.00	54	W	2	0	30.11	+ .15	54	52	- 1	W	1	0	1	59	51	-	
Holyhead ...	30.01	55	SSW	2	0	30.13	+ .18	56	53	0	N	2	0	2	63	53	-	
Parsonstown ...	30.02	59	W	0	0	30.18	+ .20	42	42	- 11	W	0	0	*	63	38	-	
Valencia ...	30.00	60	N	3	0	30.16	+ .16	57	52	0	W	3	0	3	65	50	-	
Roche's Point...	30.00	58	SE	1	0	30.12	+ .12	52	50	- 4	N	2	0	3	61	48	0.01	
Pembroke ...	30.04	57	SW	2	0	30.09	+ .08	56	55	- 1	W	2	0	2	59	52	0.13	
Scilly ...	29.99	60	S	4	0	30.04	+ .01	58	58	- 1	W	3	0	4	61	49	0.37	
Prawle Point ...	30.10	57	S	3	0	30.04	- .06	58	58	+ 1	W	2	0	3	61	54	0.44	
Jersey ...	30.11	64	SW	2	0	30.10	- .03	63	59	+ 1	S	3	0	3	67	57	-	
Hurst Castle ...	30.11	58	W	4	0	30.08	- .02	57	57	0	SSW	2	0	1	63	55	0.30	
Dungeness ...	30.10	61	W	4	0	30.09	+ .01	60	59	+ 4	SSW	1	0	1	65	56	0.06	
London ...	30.08	60	SSW	2	0	30.11	+ .03	57	56	+ 3	W	0	0	*	66	53	0.25	
Oxford ...	30.09	56	SW	1	0	30.10	+ .03	54	54	0	W	1	0	*	63	54	0.54	
Cambridge ...	30.08	56	SW	1	0	30.10	+ .03	56	55	+ 3	W	1	0	*	66	51	0.13	
Yarmouth ...	30.05	59	W	2	0	30.08	+ .06	56	55	+ 4	W	1	0	3	62	49	0.05	
Cuxhaven ...	30.13	54	S	2	0	30.13	+ .03	53	52	+ 2	S	1	0	*	60	50	-	
Berlin ...	30.21	60	W	0	0	30.22	+ .01	51	48	+ 1	SE	1	0	*	68	50	-	
Wiesbaden ...	*	*	*	*	*	30.20	- .04	50	48	+ 3	W	0	0	*	66	45	-	
Munich ...	30.25	53	E	1	0	30.23	- .04	48	47	- 1	W	0	0	*	64	41	-	
FRANCE & NETHERLANDS.																		
The Helder ...	30.10	57	SW	1	0	30.09	+ .08	56	55	+ 3	S	1	0	1	59	?	0.04	
Brussels ...	*	*	*	*	*	30.15	- .00	56	52	+ 3	S	3	0	*	64	52	-	
Cape Gris Nez...	30.13	60	SW	5	0	30.11	+ .02	57	55	+ 1	W	0	0	0	64	55	0.04	
Paris ...	30.16	57	SE	1	0	30.15	- .06	47	46	+ 2	W	1	0	*	68	42	-	
Brest ...	30.12	62	SSW	4	0	30.10	- .00	59	55	0	SSW	1	0	4	73	48	-	
Lorient ...	30.13	62	S	1	0	30.09	- .03	55	52	- 3	SSW	3	0	2	68	54	-	
Rocheport ...	30.10	72	SW	3	0	30.11	- .06	61	59	+ 7	E	4	0	2	84	?	-	
Belfort ...	30.13	62	E	1	0	30.15	- .07	58	51	+ 2	E	1	0	*	67	40	-	
Lyons ...	30.17	61	E	1	0	30.17	- .05	55	52	+ 3	W	1	0	*	69	46	-	
Nice ...	30.10	67	W	0	0	30.09	- .03	66	59	- 2	W	3	0	1	75	61	-	
Perpignan ...	30.12	63	E	3	0	30.13	- .04	61	60	+ 4	W	3	0	*	75	54	-	
Biarritz ...	30.02	70	ENE	3	0	30.09	- .02	68	65	+ 5	W	4	0	2	75	54	-	
PENINSULA.																		
Corunna ...	*	*	*	*	*	30.10	- .02	68	62	+ 4	SSW	4	0	3	72	?	-	
Lisbon ...	30.12	66	SW	5	0	30.10	- .02	68	62	+ 4	SSW	4	0	3	72	?	-	

For Explanation of Columns, see p. 4.



# WEATHER CHARTS

for 8 a.m. on

Saturday, 17<sup>th</sup> September.

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—  
 — 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 September.  
 During the 10 Years 1871—1880.

STATIONS	MEAN READINGS
	in.
Sambargh Head	29.758
Stornoway	29.781
Wick	29.786
Nairn	29.812
Aberdeen	29.815
Leith	29.851
Shields	29.876
York	29.913
Ardrossan	29.858
Donaghadee	29.875
Holyhead	29.903
Liverpool	29.910
Valencia	29.929
Roche's Point	29.923
Pembroke	29.924
Scilly	29.960
Hurst Castle	29.978
Dover	29.955
LONDON	29.956
Oxford	29.948
Cambridge	29.943
Yarmouth	29.928



## 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 September.

STATIONS	TEMPERATURE				RAINFALL (Inches)
	Daily Max.	Daily Min.	At 8 a.m.	At 8 p.m.	
Sambargh Head	55.2	46.2	50.6	49.0	3.46
Stornoway	55.9	45.4	51.0	49.7	4.13
Wick	57.5	45.8	51.6	49.7	2.66
Nairn	59.0	47.0	51.3	48.8	2.73
Aberdeen	58.0	47.1	52.0	49.6	3.22
Leith	62.7	47.8	53.5	51.1	2.47
Shields	60.0	49.0	53.4	51.2	2.58
York	63.2	47.3	53.1	51.2	2.98
Ardrossan	59.9	49.9	53.6	51.0	3.87
Donaghadee	59.5	49.2	53.3	52.1	3.22
Holyhead	61.1	53.1	55.6	53.4	3.35
Liverpool	61.3	51.2	54.7	52.0	3.56
Valencia	61.9	52.0	56.4	53.9	4.87
Roche's Point	62.0	51.7	55.4	53.2	4.89
Pembroke	60.4	53.4	56.3	53.9	3.89
Scilly	61.9	55.2	59.5	56.6	3.69
Hurst Castle	64.4	52.9	57.8	56.3	3.35
Dover	63.1	52.8	58.3	55.4	2.88
LONDON	66.0	49.3	56.4	54.0	2.69
Oxford	63.8	49.0	54.2	52.4	2.91
Cambridge	65.8	48.5	54.5	52.9	2.48
Yarmouth	62.3	60.8	56.3	54.4	3.17

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 the extreme N. and NW. of our Islands, as well as over the Baltic and Germany.  
Lowest, 30.4 ins. at Scilly, 30.08 ins. at Hurst Castle, and about 30.0 ins. over the North Sea.

### TEMPERATURE

Highest, 68° at Biarritz, 66° at Nice, 63° at Jersey and Dieppe, 61° at Rochefort and Perpignan and 60° at Dungeness.  
Lowest, 42° at Larcomtown, 47° at York and Paris, 48° at Munich, and 49° at Christiansund.

### WIND

Light N<sup>W</sup> or NE<sup>W</sup> in the north and east of our Islands and also in the south of France.  
S<sup>W</sup> or SW over the Channel, the Netherlands, Denmark and Sweden.  
Calms or light variable over Germany and the east of France.

### WEATHER

Dull, rainy and foggy over the south and south-east of England as well as in Norway.  
Fair or fine in most other localities.  
[Since yesterday rain has fallen at all but a few of our western stations]

### SEA

Moderate at Scilly, but slight or smooth elsewhere.

### PROBABLE CHANGES IN SYSTEM NOW PREVALENT

There is at present no definite indication of any immediate change, but the high pressure system over Germany and the Baltic may possibly give way, in which case N<sup>W</sup> or NE<sup>W</sup> winds would extend over the whole of our Islands.

## FORECASTS

For the 24 hours ending at NOON on 18<sup>th</sup> Sept

1887.

### DISTRICTS.

### FORECASTS.

0	SCOTLAND NORTH	N <sup>W</sup> to NE <sup>W</sup> breezes, light; some showers to fair.
1	SCOTLAND EAST	-----D°-----D°-----D°-----
2	ENGLAND N.E.	N <sup>W</sup> breezes, light; fine.
3	ENGLAND EAST	Same as No 5
4	MIDLAND COUNTIES	Same as No 2
5	ENGLAND SOUTH	Varying airs; much rain, colder, perhaps thunder then finer.

### DISTRICTS.

### FORECASTS.

6	SCOTLAND WEST	N <sup>W</sup> breezes, light; fine.
7	ENGLAND N.W.	-----D°-----D°-----D°-----
8	ENGLAND S.W.	Same as No 5.
9	IRELAND NORTH	NE <sup>W</sup> breezes, light; fine.
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 ...	30.00	56	51	SE 2	0	3	Holyhead ...	29.99	60	54	SW 1	bc	2
Sumburgh Head ...	29.95	54	53	E 1	e	4	Valencia ...	29.99	65	57	N 1	ev	1
Stornoway ...	29.93	57	56	E 3	bc	3	Scilly ...	30.01	60	59	S 2	r	2
Aberdeen ...	29.90	54	50	E 1	c	0	Dungeness ...	30.10	64	60	W 4	bc	3
Shields ...	29.92	56	52	SW 3	cp	2	London ...	30.08	65	57	W 3	c	*
Ardrossan ...	29.90	56	52	WNW 3	e	2	Yarmouth ...	30.05	62	56	WSW 3	bc	2
Malin Head ...	29.94	55	52	WNW 2	bc	2	Jersey ...	30.13	66	57	SSW 2	c	2
Mullaghmore ...	29.98	59	54	WNW 4	bc	2	Rochefort ...	30.15	82	69	E 3	c	2
Belmullet ...	30.02	58	53	WNW 4	H	*							

## 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 30.5 ins: were found in an anticyclone lying over Central Russia, a long band of high readings extended thence across Germany to France and the Bay of Biscay. The lowest readings, 29.7 ins: and less, were reported in a depression which lay near the Sea of Azov, but another disturbance, with readings below 29.9 ins:, was lying over the north of the British Isles. W<sup>3</sup> breezes (NW to SW) prevailed over the greater part of the United Kingdom and also in the Netherlands and north of France, S<sup>3</sup> breezes over the Baltic, and E<sup>3</sup> breezes at most of the Scandinavian stations. Over Central Europe, however, the wind was light and variable, while on the borders of the Mediterranean it was chiefly NE<sup>3</sup> or N<sup>3</sup>. The weather was fine over Southern Europe, but somewhat cloudy elsewhere, with showers in many parts of the British Islands. Temperature had risen a little in most places, and readings ranged from 70° and upwards over Spain, Algeria, and the southern parts of Italy and Austria to 50° or less, over the Central parts of Russia, Germany and France, and the north-east of England. The highest individual readings were 77° at Brindisi, Malta, and Biskra, 76° at Oran and Algiers, 75° at La Calle and Barcelona, and 73° at Tunis and Cagliari; the lowest were 43° at Charlottesville and Le Mans, 44° at Uleaborg, 45° at Paris, Besançon and Moscow, and 46° at Nantes and Carlsruhe.

In the course of the day the depression over the north of the Islands filled up, but a new disturbance was formed over our SW coasts, and rain fell at night at all our more southern stations.

### EXPLANATION OF COLUMNS GIVEN ON PAGE 1.

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

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

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

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# DAILY WEATHER REPORT.

for Sunday 18<sup>th</sup> September

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. Reading at 32° F. and Sea Level.	Difference from 8 a.m. yesterday.	SHADE TEMP.			WIND.		Weather.	Sea. (0 to 9.)	SHADE TEMP.		Amount of Rainfall.	
			Dir.	Force. (0 to 12.)				Dry.	Wet.	Difference from 8 a.m. yesterday.	Dir.	Force. (0 to 12.)			Max.	Min.		
SCANDINAVIA.																		
Haparanda ..	30.12	53	S	2	0	29.99	-.12	53	52	-.2	Z	0	bc	*	57	41	-	
Hernösand ...	30.07	52	Z	0	r	30.13	-.06	48	47	-.2	W	2	c	*	55	45	-	
Stockholm ...	30.25	55	SSE	4	c	30.19	-.07	55	54	-.2	Z	0	*	*	64	48	-	
Wisby ...	30.26	56	SW	4	0	30.19	-.06	59	57	+.5	SW	4	0	*	66	46	-	
Bodö ...	30.07	47	ENE	4	0	30.03	-.00	46	44	-.3	WSW	4	0	2	52	43	-	
Christiansund...	30.15	51	WSW	4	0	30.17	+.08	49	48	-.1	SW	2	c	2	52	45	0.16	
Skudesnaes ...	30.19	52	NW	2	c	30.28	+.18	54	50	0	NW	2	0	2	59	52	-	
Christiania Fjord (Furder)	30.14	55	WSW	2	b	30.18	+.09	46	46	-.6	Z	0	f	1	54	45	0.32	
Skagen (The Scaw)	30.16	50	Z	0	bc	30.20	+.12	53	53	-.1	NW	1	b	0	57	48	0.04	
Fanö ...	30.20	52	Z	0	0	30.24	+.15	52	53	-.3	Z	0	b	*	61	46	0.12	
BRITISH ISLANDS.																		
Sumburgh Head	30.24	47	NNW	1	0	30.32	+.16	48	48	-.3	NNW	2	0	2	53	46	-	
Stornoway ...	30.28	51	N	3	c	30.48	+.24	50	49	-.1	Z	0	0	2	57	47	-	
Wick ...	30.44	50	NNE	2	0	30.43	+.21	50	50	-.1	W	2	0	0	60	47	0.02	
Nairn ...	30.33	52	ENE	1	bc	30.47	+.26	48	45	-.3	SW	1	bc	1	61	45	-	
Aberdeen...	30.31	53	N	4	b	30.46	+.31	51	48	-.2	NW	2	0	1	57	48	-	
Leith ...	30.39	55	SE	1	c	30.47	+.32	50	47	-.1	Z	0	bc	*	63	42	0.14	
Shields ...	30.26	53	N	4	0	30.46	+.37	52	50	0	NNW	3	0	3	58	49	-	
Spurn Head ...	30.20	55	N	3	b	30.38	+.39	55	53	+.4	N	4	bc	3	59	50	-	
York ...	30.23	54	NW	1	b	30.43	+.32	53	50	+.6	NNW	1	b	*	61	45	-	
Loughborough	30.21	57	NNE	2	b	30.41	+.30	51	50	+.1	N	2	bc	*	66	45	-	
Ardrossan ...	30.31	54	ENE	1	0	30.48	+.29	50	47	-.2	Z	0	bc	0	60	42	-	
Malin Head ...	30.28	55	N	2	b	30.49	+.30	52	52	-.2	N	3	bc	3	58	50	-	
Mullaghmore ...	30.31	59	NE	5	b	30.51	+.32	54	52	-.1	E	4	bc	2	62	48	-	
Belmullet ...	30.33	57	ENE	2	b	30.50	+.28	55	52	-.1	E	1	b	*	60	48	-	
Donaghadee ...	30.30	56	N	4	b	30.49	+.31	52	51	-.2	W	3	b	1	59	48	-	
GERMANY.																		
Barrow-in-Furness	30.29	54	NE	2	b	30.46	+.34	55	51	+.1	NNE	3	b	*	61	47	-	
Liverpool (Bidston)	30.22	54	NNE	2	b	30.44	+.33	51	48	-.3	NE	1	b	1	60	46	-	
Holyhead ...	30.25	57	NNE	5	b	30.45	+.32	56	52	0	NE	4	bc	2	57	50	-	
Parsonstown ...	30.29	58	Z	0	b	30.48	+.30	46	45	+.4	Z	0	b	*	62	41	-	
Valencia ...	30.24	60	ENE	3	b	30.41	+.25	58	52	+.1	Z	0	bc	1	65	48	-	
Roche's Point...	30.23	57	SE	3	b	30.40	+.28	56	51	+.3	ENE	3	b	3	61	49	-	
Pembroke ...	30.19	56	NE	3	bc	30.37	+.28	51	48	-.5	NE	4	b	2	60	50	-	
Scilly ...	30.12	59	NE	4	0	30.28	+.24	57	52	-.1	ENE	5	c	4	59	55	0.01	
Prawle Point ...	30.16	57	NNE	2	0	30.32	+.28	52	51	-.6	NNE	6	bc	6	61	49	0.38	
Jersey ...	30.12	64	NW	1	c	30.27	+.17	62	58	-.1	NE	4	cm	3	68	59	-	
Hurst Castle ...	30.14	58	ENE	1	c	30.32	+.24	52	51	-.5	NNE	5	cm	2	58	48	0.88	
Dungeness ...	30.13	60	NNE	1	r	30.27	+.18	55	54	-.5	NE	4	c	2	62	50	0.45	
London ...	30.17	56	Z	0	f	30.32	+.21	53	50	-.4	NE	3	bc	*	58	49	0.20	
Oxford ...	30.24	54	NE	2	b	30.38	+.28	51	49	-.3	NNE	3	0	*	59	45	-	
Cambridge ...	30.18	57	N	1	c	30.36	+.26	49	48	-.7	N	1	bc	*	63	42	-	
Yarmouth ...	30.17	57	NNE	2	c	30.30	+.22	57	54	+.1	NNE	4	bc	4	59	50	0.07	
Cuxhaven ...	30.17	52	N	1	r	30.23	+.10	56	56	+.3	?	3	f	*	60	51	0.06	
Berlin ...	30.19	63	SE	1	b	30.17	-.05	57	56	+.6	SE	1	c	*	72	?	-	
Wiesbaden ...	*	*	*	*	*	30.22	+.02	54	52	+.4	Z	0	b	*	68	48	-	
Munich ...	30.22	56	E	3	b	30.28	+.05	55	53	+.7	SW	1	bc	*	66	36	-	
FRANCE & NETHERLANDS.																		
The Helder ...	30.17	57	S	1	0	30.25	+.16	56	54	0	N	1	0	1	61	55	0.20	
Brussels ...	*	*	*	*	*	30.23	+.18	58	56	+.2	NNE	1	0	*	68	54	-	
Cape Gris Nez...	30.12	59	NE	1	0	30.26	+.15	57	56	0	NE	5	r	4	64	55	0.24	
Paris ...	30.12	62	Z	0	b	30.19	+.04	56	52	+.9	N	1	0	*	73	?	-	
Brest ...	30.13	63	NNW	1	0	30.22	+.12	58	56	-.1	E	3	0	2	73	48	-	
Lorient ...	30.10	64	NNW	1	bc	30.18	+.09	59	55	+.4	NE	5	0	2	72	54	-	
Rochefort ...	30.07	70	NNW	4	b	30.15	+.04	61	61	0	E	3	f	2	79	57	-	
Belfort ...	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	
Lyons ...	30.13	67	E	1	b	30.22	+.05	55	54	0	NNW	1	b	*	74	43	-	
Nice ...	30.10	67	Z	0	b	30.17	+.08	69	58	+.3	E	3	b	1	79	61	-	
Perpignan ...	30.11	66	NE	1	b	30.17	+.04	59	59	-.2	Z	0	b	*	75	64	-	
Biarritz ...	30.08	69	W	1	0	30.08	-.01	62	61	-.6	SE	3	bc	2	73	57	-	
Corunna ...	*	*	*	*	*	30.07	+.01	70	68	0	NE	1	c	0	82	63	-	
Lisbon ...	30.08	67	SW	7	b	30.11	+.01	65	64	+.2	E	3	c	2	75	?	-	

For Explanation of Columns, see p. 4.



# WEATHER CHARTS

for 8 a.m. on

Sunday, 18<sup>th</sup> September.

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 September.  
 During the 10 Years 1871—1880.

STATIONS.	MEAN READINGS.
	in.
Sumburgh Head	29.758
Stornoway	29.781
Wick	29.786
Nairn	29.812
Aberdeen	29.815
Leith	29.851
Shields	29.876
York	29.913
Ardrossan	29.858
Donaghadee	29.875
Holyhead	29.903
Liverpool	29.910
Valencia	29.929
Roche's Point	29.923
Pembroke	29.924
Scilly	29.960
Hurst Castle	29.978
Dover	29.955
LONDON	29.956
Oxford	29.948
Cambridge	29.948
Yarmouth	29.928



## 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 September.

STATIONS	TEMPERATURE.				RAINFALL. (Inches)
	Daily Max.	Daily Min.	At 8 a.m. Dry.	Wet.	
Sumburgh Head	55.2	46.2	50.8	49.0	3.46
Stornoway	55.9	45.4	51.0	49.7	4.18
Wick	57.5	45.3	51.6	49.7	2.66
Nairn	59.0	47.0	51.3	48.8	2.78
Aberdeen	58.0	47.1	52.0	49.6	3.22
Leith	62.7	47.8	53.6	51.1	2.47
Shields	60.0	49.0	53.4	51.2	2.58
York	63.2	47.3	53.1	51.3	2.98
Ardrossan	59.9	49.9	53.6	51.0	3.87
Donaghadee	59.5	49.2	53.3	52.1	3.22
Holyhead	61.1	53.1	55.6	53.4	3.35
Liverpool	61.3	51.2	54.7	52.0	3.56
Valencia	61.9	52.0	56.4	53.9	4.87
Roche's Point	62.0	51.7	55.4	53.2	4.39
Pembroke	60.4	53.4	56.3	53.9	3.89
Scilly	61.9	55.2	58.5	56.5	3.69
Hurst Castle	64.4	52.9	57.8	56.3	3.35
Dover	63.1	52.8	58.3	55.4	2.86
LONDON	66.9	49.3	56.4	54.0	2.59
Oxford	63.8	49.0	54.2	52.4	2.91
Cambridge	65.8	48.5	54.5	52.9	2.48
Yarmouth	62.3	50.8	56.3	54.4	3.17

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, 30.5 ins. and upwards, in the central portion of an anticyclone lying over the NW. of Ireland.  
Lowest, 30.0 ins. and less, in the north of Sweden, 30.1 ins. and less in the north of Spain, 30.2 ins. and less, over Germany.

## TEMPERATURE

Highest, 70° at Corunna, 69° at Nice, 65° at Lisbon, 62° at Jersey and Biarritz, and 61° at Rochefort.  
Lowest, 46° at Rodez and Pau, 48° at Huesca and Lumburg Head, and 49° at Christiansund and Famlridge.

## WIND

Light W<sup>3</sup> in the north of Scotland, and also over the greater part of Scandinavia.  
Moderate on fresh from NE or N. over England, Ireland, and the coast of France.  
Variable over Germany, the Netherlands, and the south of France.

## WEATHER

Fair generally, but hazy in many parts of Great Britain and rainy at C. F. Key.  
Rain fell yesterday in the extreme south and southeast, the largest amount being 0.8 in. at Huel Carle and 0.5 in. at Bournemouth.

## SEA

Rough at Pasa Point and moderate at Kelly and Yarmouth, but slight or smooth elsewhere.

## PROBABLE CHANGES IN SYSTEM NOW PREVALENT

The trough of low pressure which extended yesterday from our southwest coasts to the North Sea has disappeared, and a large anticyclone has advanced over our Islands from the northward. The barometer is at present rising at all but the Swedish stations.

## FORECASTS

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

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

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 ...	30.15	59	54	WNW 2	c	2	Holyhead ...	30.19	57	55	NNE 4	b	2
Sumburgh Head ...	30.22	49	47	NNW 1	c	2	Valencia ...	30.19	64	56	NE 4	bc	3
Stornoway ...	30.21	55	54	E 3	c	3	Scilly ...	30.09	59	57	NE 4	o	4
Aberdeen ...	30.24	57	53	N 5	bc	2	Dungeness ...	30.10	61	59	WSW 1	r	1
Shields ...	30.17	57	53	NE 3	b	2	London ...	30.13	57	56	WNW 2	ond	*
Ardrossan ...	30.24	55	52	ENE 1	b	1	Yarmouth ...	30.12	58	57	NNE 2	czdp	2
Malin Head ...	30.28	56	53	NNW 2	o	2	Jersey ...	30.11	65	57	SSE 2	c	2
Mullaghmore ...	30.26	61	55	NE 4	bc	3	Rochefort ...	30.10	75	68	WNW 5	c	2
Belmullet ...	30.29	60	54	NE 2	b	*							

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

The reports for yesterday showed that the barometer was highest, 30.5 ins. and upwards, in an anticyclone, which lay over Central Russia, but relatively high, 30.2 ins. and upwards, in the extreme northwest of the British Isles. Over Norway, the North Sea and the English Channel there was a trough of low pressure containing two distinct minima, one of which lay near the mouth of the Channel, while the other was situated over the southern part of the North Sea. Variable breezes were reported over Central and Southern Europe, but E<sup>3</sup> or SE<sup>3</sup> breezes over the greater part of France and Western Germany, and S or SW winds over Scandinavia and the Baltic. Over the greater part of our Islands, however, the wind was NE or N<sup>3</sup>. Rain was falling in the south and southeast of England, as well as at many of the Norwegian stations, but elsewhere the weather was mostly fair. Temperature had risen somewhat over the greater part of France, but elsewhere the changes were slight and irregular, readings ranged from 70° and upwards over Algeria and the southern parts of Italy and Austria to 40° or less over Central Russia. The highest individual readings were 80° at Algiers, 78° at Biskra, 77° at Khindire, 76° at Malta, 75° at Oran and 74° at Feina; the lowest were 37° at Moscow, 42° at Pansmatown, 44° at Casrel, 46° at Charleville, and 47° at York, Paris and Nancy.

In the course of the day the high pressure system to the northwestward of our Islands extended southeastwards and NE<sup>3</sup> winds therefore set in over all parts of the Kingdom with improving weather in the south.

### EXPLANATION OF COLUMNS GIVEN ON PAGE 1.

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

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

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

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



# DAILY WEATHER REPORT.

for Monday 19<sup>th</sup> September.

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.										LAST 24 HOURS.		
	Barometer at 32° F. and Sea Level.	Temp. in Shade.	WIND.		Weather.	BAROMETER.		SHADE TEMP.			WIND.		Weather.	Sea. (0 to 9.)	SHADE TEMP.		Amount of Rainfall.	
			Dir.	Force. (0 to 12.)		Reading at 32° F. and Sea Level.	Difference from 8 a.m. yesterday.	Dry.	Wet.	Difference from 8 a.m. yesterday.	Dir.	Force. (0 to 12.)			Max.	Min.		
SCANDINAVIA.																		
Haparanda ..	29.73	50	2	0	bc	29.51	-.42	49	46	-.4	2	0	c	*	59	48	0.04	
Hernösand ..	30.02	47	2	0	b	29.75	-.38	49	45	+ .1	sw	4	0	*	64	46	-	
Stockholm ..	30.15	51	2	0	b	29.95	-.24	51	49	-.4	sw	2	0	*	64	48	-	
Wishby ..	30.14	57	N	2	0	29.98	-.21	55	52	-.4	N	4	0	*	66	54	-	
Bodö ..	29.73	45	2	0	c	29.56	-.47	47	47	+ .1	sw	4	0	*	48	46	0.47	
Christiansund ..	30.03	50	sw	8	r	29.81	-.36	60	49	+ .1	W	8	0	5	52	46	1.10	
Skudesnaes ..	30.00	50	sw	2	0	30.10	-.18	54	52	0	sw	6	0	4	54	50	-	
Christiania Fjord (Færder) ..	30.13	55	sw	2	b	29.94	-.24	54	50	+ .8	sw	2	bc	1	55	?	-	
Skagen (The Scaw) ..	30.15	52	W	1	bc	29.99	-.21	54	51	+ .1	sw	3	0	2	59	48	-	
Faro ..	30.29	52	sw	3	c	30.20	-.04	54	52	0	sw	4	c	*	61	50	-	
BRITISH ISLANDS.																		
Sumburgh Head ..	30.28	50	W	3	0	30.14	-.18	51	51	+ .3	sw	3	0	4	52	45	0.10	
Stornoway ..	30.53	50	sw	1	om	30.45	-.03	54	53	+ .4	sw	3	0	3	54	48	-	
Wick ..	30.44	52	sw	2	0	30.35	-.08	54	51	+ .4	sw	5	0	2	55	49	0.02	
Nairn ..	30.48	53	sw	1	c	30.46	-.01	54	50	+ .6	W	1	bc	1	54	48	-	
Aberdeen ..	30.47	54	sw	3	c	30.43	-.03	55	50	+ .4	sw	5	c	1	58	49	-	
Leith ..	30.48	53	W	1	bc	30.50	+ .03	49	47	-.1	sw	1	cm	*	61	46	-	
Shields ..	30.49	54	sw	3	c	30.48	+ .02	51	49	-.1	W	2	bc	3	56	44	-	
Spurn Head ..	30.45	54	N	4	c	30.45	+ .07	52	51	-.3	sw	3	bc	3	57	49	0.01	
York ..	30.50	52	sw	1	0	30.30	+ .07	47	45	-.6	sw	1	b	*	58	44	-	
Loughborough ..	30.47	55	N	3	bc	30.51	+ .10	51	49	0	sw	2	ow	*	63	45	-	
Ardrossan ..	30.50	57	sw	1	b	30.52	+ .04	55	51	+ .5	sw	3	c	2	60	44	-	
Malin Head ..	30.55	54	N	3	c	30.56	+ .07	54	53	+ .2	sw	2	0	3	57	43	-	
Mullaghmore ..	30.58	57	sw	5	bc	30.61	+ .10	50	47	-.4	sw	1	ow	0	62	42	-	
Belmullet ..	30.56	56	E	2	b	30.61	+ .11	55	52	0	E	1	b	*	61	46	-	
Donaghadee ..	30.57	55	sw	3	b	30.56	+ .07	55	52	+ .3	sw	4	c	2	60	52	-	
Barrow-in-Furness ..	30.49	58	sw	3	b	30.50	+ .04	51	50	-.4	sw	2	bc	*	60	47	-	
Liverpool (Bidston) ..	30.50	54	sw	2	b	30.51	+ .07	54	50	+ .3	sw	2	c	3	60	49	-	
Holyhead ..	30.51	55	sw	3	b	30.55	+ .10	54	50	-.2	sw	4	c	2	57	52	-	
Parsonstown ..	30.52	58	2	0	b	30.62	+ .14	40	39	-.6	2	0	*	*	63	37	-	
Valencia ..	30.47	62	E	4	cm	30.56	+ .15	54	50	-.4	sw	1	bc	1	65	46	-	
Roche's Point ..	30.49	57	sw	4	b	30.55	+ .15	54	51	-.1	E	3	b	4	60	48	-	
Pembroke ..	30.45	55	sw	3	b	30.56	+ .19	52	50	+ .1	sw	1	b	1	60	47	-	
Scilly ..	30.38	58	sw	5	c	30.48	+ .20	56	53	-.1	sw	5	b	3	60	53	-	
Prawle Point ..	30.39	57	sw	4	bc	30.51	+ .19	54	50	+ .2	sw	5	bc	4	60	45	-	
Jersey ..	30.34	60	sw	4	cm	30.46	+ .19	58	53	+ .4	sw	4	bc	3	62	54	-	
Hurst Castle ..	30.40	57	sw	3	b	30.49	+ .17	51	50	-.1	sw	3	c	1	63	44	-	
Dungeness ..	30.44	59	sw	3	bc	30.41	+ .14	53	52	-.2	sw	3	c	2	62	46	-	
London ..	30.41	57	sw	4	b	30.48	+ .16	52	50	-.1	N	2	c	*	62	49	-	
Oxford ..	30.49	51	sw	2	b	30.51	+ .13	51	48	0	N	1	b	*	60	44	-	
Cambridge ..	30.46	55	N	1	c	30.48	+ .12	52	49	+ .3	N	1	c	*	61	47	-	
Yarmouth ..	30.37	57	sw	5	c	30.44	+ .11	55	52	-.2	N	4	c	4	60	51	0.01	
Cuxhaven ..	30.26	56	N	4	0	30.21	-.02	56	55	0	N	3	0	*	56	51	-	
Berlin ..	30.14	64	sw	2	b	30.15	-.02	56	54	-.1	sw	3	0	*	72	55	-	
Wiesbaden ..	*	*	*	*	*	30.17	-.05	57	55	+ .3	sw	1	0	*	70	48	0.51	
Munich ..	30.21	57	E	2	b	30.19	-.09	57	53	+ .2	sw	4	c	*	69	48	-	
FRANCE & NETHERLANDS.																		
The Helder ..	30.31	56	sw	3	b	30.38	+ .08	55	52	-.1	N	4	c	3	59	54	-	
Brussels ..	*	*	*	*	*	30.33	+ .10	53	50	-.5	N	1	0	*	?	52	0.83	
Cape Gris Nez ..	30.35	56	sw	7	r	30.37	+ .12	55	53	-.2	sw	7	0	5	63	54	0.04	
Paris ..	30.28	56	N	3	bc	30.35	+ .16	51	49	-.5	N	4	bc	*	65	47	0.04	
Brest ..	30.26	60	sw	5	0	30.40	+ .18	53	49	-.5	E	4	b	3	73	46	-	
Lorient ..	30.26	64	sw	5	bc	30.45	+ .27	53	51	-.6	E	5	b	2	72	50	-	
Rocheport ..	30.18	72	sw	5	bc	30.32	+ .17	53	51	-.8	sw	7	b	2	77	50	-	
Belfort ..	*	*	*	*	*	30.25	+ .03	52	50	-.3	N	3	0	*	78	52	-	
Lyons ..	30.13	70	E	1	b	30.03	-.14	62	58	-.1	E	1	b	1	81	54	-	
Nice ..	30.10	68	2	0	0	30.09	-.08	63	60	+ .4	2	0	c	*	76	56	-	
Perpignan ..	30.10	72	sw	4	b	30.21	+ .13	64	62	+ .2	sw	4	b	1	79	?	-	
Biarritz ..	*	*	*	*	*	30.19	+ .08	61	61	-.4	N	3	0	2	75	61	-	
Corunna ..	30.15	68	sw	4	b	30.19	+ .08	61	61	-.4	N	3	0	2	75	61	-	
Lisbon ..	30.15	68	sw	4	b	30.19	+ .08	61	61	-.4	N	3	0	2	75	61	-	

For Explanation of Columns, see p. 4.



# WEATHER CHARTS

for 8 a.m. on *Monday, 19<sup>th</sup> September.* 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.

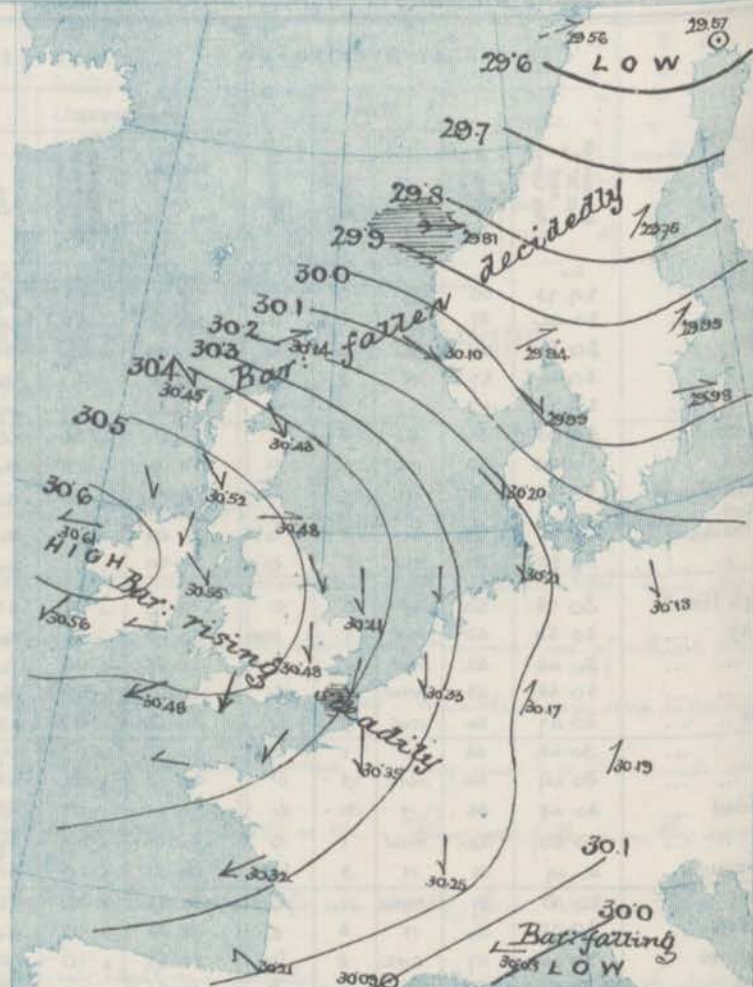
**Sea Disturbance** — where considerable is shown thus

■ = Rough. ■ = high

## MEAN HEIGHT of the BAROMETER

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

STATIONS.	MEAN READINGS.
	in.
Sumburgh Head	29.758
Stornoway	29.781
Wick	29.796
Nairn	29.812
Aberdeen	29.815
Leith	29.851
Shields	29.876
York	29.913
Ardrossan	29.858
Donaghadee	29.875
Holyhead	29.903
Liverpool	29.910
Valencia	29.920
Roche's Point	29.923
Pembroke	29.924
Scilly	29.960
Hurst Castle	29.978
Dover	29.955
LONDON	29.956
Oxford	29.943
Cambridge	29.943
Yarmouth	30.928



## 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.

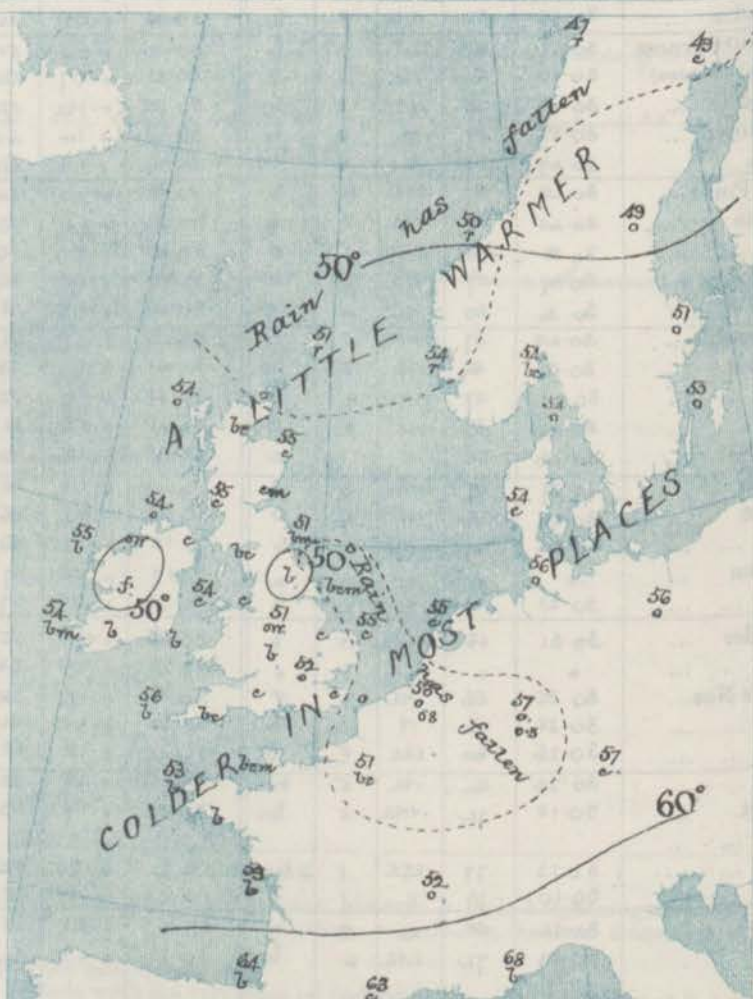
**Rainfall** — A dotted line separates the districts in which rain has fallen from those where there has been none. Falls of 0.5 in. or more, are quoted in figures.

## MEANS OF TEMPERATURE IN SHADE. AND RAINFALL.

for the month of September

STATIONS	TEMPERATURE.				RAINFALL (Inches)
	Daily Max.	Daily Min.	AT 8 A.M.		
			Day.	Night.	
Sumburgh Head	55.2	46.2	50.6	49.0	3.46
Stornoway	55.9	45.4	51.0	49.7	4.13
Wick	57.5	45.8	51.6	49.7	2.66
Nairn	59.0	47.0	51.3	48.8	3.73
Aberdeen	58.0	47.1	52.0	49.6	3.22
Leith	62.7	47.8	53.6	51.1	2.47
Shields	60.0	49.0	53.4	51.2	2.68
York	63.2	47.3	53.1	51.2	2.98
Ardrossan	59.0	49.9	53.6	51.0	2.87
Donaghadee	59.5	49.2	53.3	52.1	3.22
Holyhead	61.1	53.1	55.6	53.4	3.35
Liverpool	61.3	51.2	54.7	52.0	3.56
Valencia	61.9	52.0	56.4	53.9	4.87
Roche's Point	62.0	51.7	55.4	53.2	4.89
Pembroke	60.4	53.4	56.3	53.0	3.89
Scilly	61.9	55.2	58.5	56.5	3.09
Hurst Castle	64.4	52.9	57.8	56.3	3.35
Dover	63.1	52.8	58.3	55.4	2.96
LONDON	66.9	49.3	56.4	54.0	2.59
Oxford	62.8	49.0	54.2	52.4	3.91
Cambridge	65.8	48.5	54.5	52.0	2.48
Yarmouth	62.3	50.8	56.3	54.4	3.17

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. and upwards, over Western and Central Ireland. Lowest, 29.6 ins. and less, in a large depression lying over the north of Scandinavia; relatively low 30.1 ins. and less, off the south of France.
TEMPERATURE	Highest, 58° at Nieu, 64° at Kinnaird, 63° at Kippin, 61° at Dorn, and 58° at Jersey. Lowest, 40° at Parsonstown, 47° at Bodø and York, 49° at Haparanda, Helsingfors and Seeth, and 50° at Ch. Lianund, Mallesmoore.
WIND	W <sup>1</sup> or NW <sup>1</sup> over Scandinavia, Denmark, and the north and east coast of Great Britain; strong to a gale at Christiansund. N <sup>1</sup> or NE <sup>1</sup> over France and the south of our Islands; variable in Germany and the south of France.
WEATHER	Rainy in the coast of Norway, and also at Lumburg Head; — dull over the whole of Scandinavia, Denmark, Germany, and the north of Scotland. Fair or fine in most other localities, but foggy over Central Ireland. [Heavy rain fell yesterday in some parts of Germany and the Netherlands.]
SEA	Rather rough at Christiansund, but moderate to smooth elsewhere.

## PROBABLE CHANGES IN SYSTEM NOW PREVALENT

The depression in the north will probably move away in an easterly or a southeasterly direction, but conditions are favourable for the advance of other disturbances towards our extreme northern coasts. Unsettled weather is therefore likely to continue in the north, with a further increase in the force of the NW<sup>1</sup> winds.

## FORECASTS

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

DISTRICTS.	FORECASTS.	DISTRICTS.	FORECASTS.
0 SCOTLAND NORTH	W <sup>1</sup> and NW <sup>1</sup> winds, strong; dull, some rain.	6 SCOTLAND WEST	NW <sup>1</sup> winds, moderate; fair generally.
1 SCOTLAND EAST	NW <sup>1</sup> winds, fresh; squally, some showers.	7 ENGLAND N. W.	D° ——— D° ——— D°
2 ENGLAND N. E.	NW <sup>1</sup> and N <sup>1</sup> winds, fresh; fair generally, but some showers.	8 ENGLAND S. W.	NE <sup>1</sup> and N <sup>1</sup> winds, fresh; fine generally.
3 ENGLAND EAST	———— D° ——— D° ——— D° ———	9 IRELAND NORTH	Same as No 2
4 MIDLAND COUNTIES	Same as No 5	10 IRELAND SOUTH	NE <sup>1</sup> winds, light; fine generally.
5 ENGLAND SOUTH	N <sup>1</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.
Skudesnaes ...	30.30	54	50	NW 4	0	3	Holyhead ...	30.50	57	51	NW 3	6	2
Sumburgh Head ...							Valencia ...						
Stornoway ...	30.49	54	53	W 1	0	2	Scilly ...						
Aberdeen ...							Dungeness ...	30.51	62	58	NW 4	6	3
Shields ...							London ...						
Ardrossan ...							Yarmouth ...						
Malin Head ...	30.53	56	54	N 2	0	2	Jersey ...	30.82	61	57	NW 4	0	3
Mullaghmore ...							Rocheport ...	30.18	71	68	NW 4	m	2
Belmullet ...	30.54	60	55	NW 1	6	*							

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

The reports for yesterday morning showed that two important anticyclonic systems were lying over Europe. One over the northwest of the British Islands and the other over Central Russia. The lowest pressures were found in three large areas lying respectively over the north of Scandinavia, the north of Spain and over Italy and Greece. Light W. breezes (NW to SW) prevailed over Northern Europe, and moderate or fresh NE<sup>ly</sup> breezes over the greater part of Ireland, England, and France, but elsewhere the wind was very light and variable. The weather was fair on the whole, but rain was falling over the Netherlands as well as at Copenhagen. Temperature had fallen a little over our Islands and Scandinavia, but risen in most other countries; readings ranged from 40° and upwards at many of the Algerian, Spanish and Italian stations as well as in the south of Austria to 40° or less over Central Russia. The highest individual readings were 77° at Algiers, Bilbao, Barcelona, and Brindisi, 76° at Birkra and Malta, 74° at Oran, and 73° at La Palme and Ifas; the lowest were 36° at Moscow, 46° at Kiev, Rode, Lander, and Parnoutown, and 48° at Lumburgh<sup>st</sup> and Kain.

In the course of the day the anticyclone over our northwest coasts extended southwards, while a large depression began to show itself off the west of Norway. No important change took place, however, in the winds or weather.

## SUMMARY OF THE CHANGES IN THE WEATHER OVER THE BRITISH ISLANDS AND THEIR NEIGHBOURHOOD FROM SEPT 11<sup>th</sup> TO SEPT 17<sup>th</sup> 1887.

During the past week the weather has remained in a very unsettled condition, with rain in all parts of the Kingdom and a low temperature. On the morning of the 11<sup>th</sup> an anticyclone lay over the Bay of Biscay, and a large area of low pressure to the westward of Norway, while over the northwest of our Islands a subsidiary disturbance was forming. Varying W<sup>ly</sup> winds were reported generally, with steady rain over the northern part of Ireland and England.

In the course of the ensuing 24 hours the subsidiary disturbance became more fully developed, and moved eastwards to Denmark. In its rear the wind over our Islands veered to the NW<sup>ly</sup> with some improvement in the weather. During the 13<sup>th</sup> and 14<sup>th</sup> however, the system, after undergoing various changes both in size and depth, advanced slowly W<sup>ad</sup> to the north of England, occasioning more heavy rain at our northern stations, and some freshening of the NW<sup>ly</sup> wind. On the 15<sup>th</sup> a new depression which had formed over the north of Denmark during the ensuing night was also found over Scotland, and variable air with rainy weather were reported over our northern districts, while W<sup>ly</sup> breezes and showers prevailed in the south.

The two depressions now filled up gradually, and by the morning of the 17<sup>th</sup> an area of high pressure had appeared over our north and northwest coasts. As readings were also high over the Baltic, Germany, and France, a trough of relatively low pressure was formed over the southern part of England and the North Sea, and in those regions the weather was very unsettled, with variable air and rain and fog in many places. In the W. and N. however, the wind had become N<sup>ly</sup> or NE<sup>ly</sup>, and the weather was improving. Temperature has scarcely once reached 65° even over Central England, and on the 13<sup>th</sup> the minima were below 60° on all but our extreme southern coast.

### 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 Tuesday 20<sup>th</sup> September

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 8 <sup>th</sup> P. and Sea Level.	Difference from 8 a.m. yesterday.	Dry.	Wet.	Difference from 8 a.m. yesterday.	Dir.	Force. (0 to 12.)			Max.	Min.		
SCANDINAVIA.																			
Haparanda ..	29.41	47	Z	0	T		29.62		41	39		N	8	C	*	54	46	0.95	
Hernösand ...	29.58	46	NW	4	b		29.72	-.02	45	39	-4	NW	8	b	*	59	43	-	
Stockholm ...	29.65	50	NW	2	C		29.69	-.26	46	41	-5	N	4	O	*	63	45	0.12	
Wisby ...	29.65	55	W	7	T		29.58	-.40	49	47	-6	N	8	O	*	59	?	0.20	
Bodö ...	29.69	45	NW	2	O		29.97	+ .41	43	43	-4	NW	2	bc	1	41		-	
Christiansund...	29.96	47	W	8	T		30.17	+ .36	46	42	-4	NW	4	C	4	?	41	0.24	
Skudesnaes ...	30.02	53	NW	6	O		30.16	+ .06	51	49	-3	NW	6	bc	3	54	?	-	
Christiania Fjord (Forder)	29.72	58	NW	3	b		29.98	+ .04	49	42	-5	NNE	5	b	1	59	48	-	
Skagen (The Scaw)	29.74	57	NW	7	b		29.92	-.07	53	47	-1	NE	7	b	4	59	?	-	
Faßö ...	30.00	54	NW	6	O		29.97	-.23	55	52	+1	NW	6	b	*	57	54	0.04	
BRITISH ISLANDS.																			
Sumburgh Head	30.13	51	NW	4	T		30.29	+ .15	49	48	-2	Z	0	O	3	52	45	0.16	
Stornoway ...	30.42	55	NW	5	O		30.44	-.01	52	52	-2	NW	4	om	3	56	50	-	
Wick ...	30.31	53	NW	7	O		30.40	+ .05	52	50	-2	NW	3	O	1	55	48	0.04	
Nairn ...	30.40	56	W	2	C		30.44	-.02	53	50	-1	Z	0	b	1	57	49	-	
Aberdeen...	30.35	57	NW	4	C		30.39	-.04	53	50	-2	NW	4	O	2	60	52	-	
Leith ...	30.40	56	SE	1	C		30.40	-.10	54	51	+5	SE	1	bm	*	65	42	-	
Shields ...	30.38	58	WSW	1	bc		30.39	-.09	54	51	+3	NNE	3	O	3	60	48	-	
Spurn Head ...	30.41	56	N	3	C		30.35	-.10	55	53	+3	N	5	cq	4	59	51	-	
York ...	30.42	57	N	1	bc		30.38	-.12	52	50	+5	NW	1	bc	*	64	45	-	
Loughborough	30.43	57	NW	2	O		30.38	-.13	48	47	-3	NW	1	bcfw	*	65	43	-	
GERMANY.																			
Ardrossan ...	30.45	56	NW	5	O		30.39	-.13	52	49	-3	Z	0	bmw	0	59	44	-	
Malin Head ...	30.52	55	NW	3	O		30.44	-.12	54	54	0	NW	3	O	3	56	54	-	
Mullaghmore ...	30.56	54	NW	4	C		30.48	-.13	55	51	+5	N	4	cr	3	59	49	-	
Belmullet ...	30.57	55	NNE	1	O		30.51	-.10	53	50	-2	NNE	2	O	*	59	47	-	
Donaghadee ...	30.50	56	N	3	C		30.42	-.14	55	51	0	N	5	bc	3	58	53	-	
IRELAND.																			
Barrow-in-Furness	30.43	57	NW	3	bc		30.37	-.13	53	51	+2	NNE	2	b	*	59	49	-	
Liverpool (Bidston)	30.45	55	NW	3	C		30.38	-.13	56	53	+2	NW	1	b	1	58	51	-	
Holyhead ...	30.49	55	N	5	C		30.39	-.16	56	53	+2	N	3	O	3	57	53	-	
Parsonstown ...	30.54	58	Z	0	C		30.42	-.14	46	45	+6	Z	0	O	*	61	39	-	
Valencia ...	30.52	58	W	1	b		30.45	-.11	55	52	+1	NE	1	bw	1	67	43	-	
FRANCE & NETHERLANDS.																			
Roche's Point...	30.52	59	SE	1	b		30.44	-.11	52	49	-2	N	3	b	3	61	46	-	
Pembroke ...	30.48	54	N	3	bc		30.39	-.17	56	54	+4	NNE	1	cq	0	58	51	-	
Scilly ...	30.45	56	NE	4	bc		30.37	-.11	58	55	+2	NE	2	bc	3	59	52	-	
Prawle Point ...	30.45	53	NW	2	b		30.36	-.15	58	54	+4	NNE	2	b	2	60	47	-	
Jersey ...	30.44	60	NNE	3	bc		30.33	-.13	61	57	+8	NNE	2	bm	2	61	55	-	
NETHERLANDS.																			
Hurat Castle ...	30.44	58	Z	0	bc		30.36	-.13	51	50	0	N	1	m	0	62	45	-	
Dungeness ...	30.36	57	NE	3	O		30.31	-.10	53	51	0	NNE	3	C	2	59	48	-	
London ...	30.41	52	NE	2	om		30.34	-.14	50	49	-2	N	1	bcw	*	61	44	-	
Oxford ...	30.43	54	NW	2	bc		30.38	-.13	47	46	-4	NW	1	b f	*	61	45	-	
Cambridge ...	30.43	56	N	1	O		30.35	-.13	53	51	+1	N	1	C	*	63	43	-	
PORTUGAL.																			
Yarmouth ...	30.40	55	N	2	C		30.30	-.11	56	54	+1	N	4	C	4	57	48	-	
Cuxhaven ...	30.23	51	N	5	T		29.99	-.22	56	54	0	N	6	C	*	56	51	0.04	
Berlin ...	30.10	56	NNW	3	O		29.88	-.37	54	52	-2	W	1	b	*	63	52	0.08	
Wiesbaden ...	*	*	*	*	*		30.15	-.02	55	53	-2	W	4	O	*	64	50	-	
Munich ...	30.17	57	W	1	bc		30.19	.00	57	50	-6	NW	2	O	*	63	48	-	
SPAIN.																			
The Helder ...	30.29	57	NW	4	O		30.17	-.16	57	54	+2	NW	5	O	4	59	54	-	
Brussels ...	*	*	*	*	*		30.24	-.09	54	53	+1	NW	3	O	*	59	54	0.04	
Cape Gris Nez...	30.37	57	NNE	8	O		30.30	-.08	56	54	+1	NE	5	O	4	61	54	-	
Paris ...	30.32	57	N	4	O		30.28	-.07	50	52	+2	N	7	O	*	61	47	-	
Brest ...	30.48	58	E	4	b		30.34	-.06	64	58	+11	?SE	4	O	2	?	48	-	
FRANCE & NETHERLANDS.																			
Lorient ...	30.35	60	NNE	5	b		30.33	-.12	54	52	+1	NNE	3	C	2	64	50	-	
Rochefort ...	30.30	64	NNE	4	bc		30.25	-.07	53	51	0	NE	7	b	2	72	48	-	
Belfort ...	30.18	56	SW	1	O		30.10	-.12	56	52	+2	N	4	b	*	60	48	-	
Lyons ...	30.19	52	NW	3	C		30.05	-.20	52	50	0	NW	3	O	*	60	49	-	
Nice ...	29.85	67	SSE	1	b		29.90	-.13	62	58	-6	E	3	O	3	75	60	-	
PORTUGAL.																			
Perpignan ...	30.02	74	NNW	3	O		30.03	-.06	58	50	-5	NW	4	b	*	79	56	-	
Biarritz ...	30.15	70	N	4	b		30.17	-.04	50	48	-14	E	3	b	2	73	48	-	
ITALY.																			
Corunna ...	*	*	*	*	*		30.05	-.16	61	63	-6	NE	1	f	2	73	55	-	
Lisbon ...	30.11	66	NW	5	b		30.05	-.14	64	61	+3	W	5	e	2	77	?	-	

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



# WEATHER CHARTS

for 8 a.m. on

Tuesday 20<sup>th</sup> September

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.

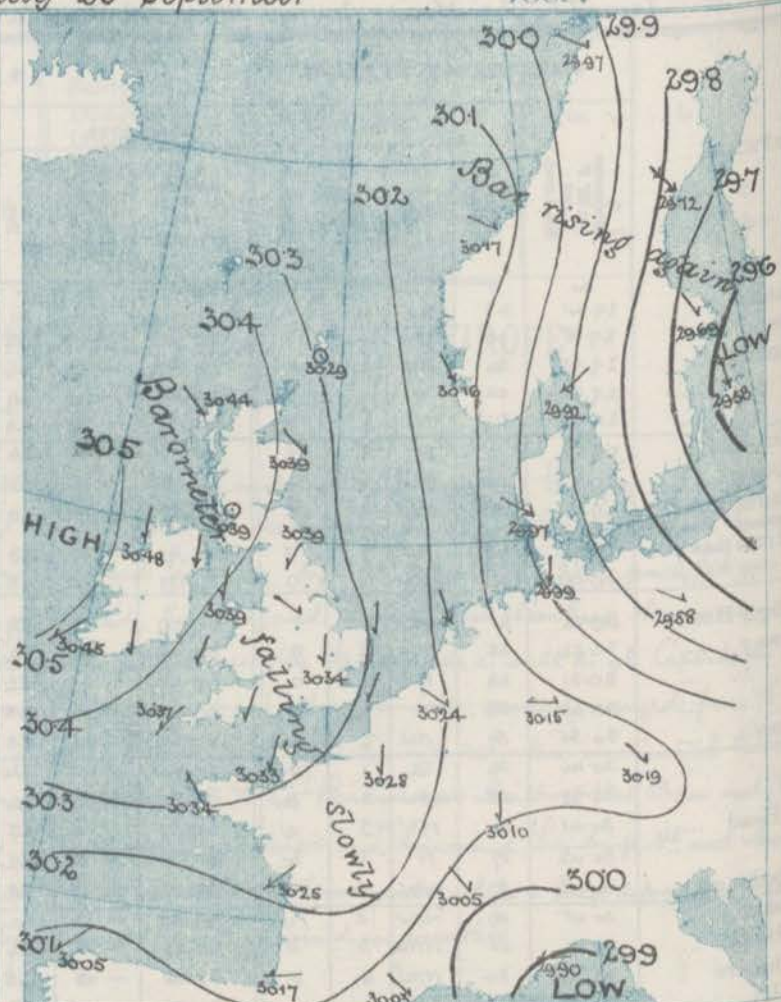
**Sea Disturbance**—where considerable is shown thus

■ = Rough. ■ = High.

## MEAN HEIGHT of the BAROMETER

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

STATIONS.	MEAN READINGS.
	in.
Sumburgh Head	29.758
Stornoway	29.781
Wick	29.786
Nairn	29.812
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Leith	29.851
Shields	29.876
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Ardrossan	29.858
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Roche's Point	29.923
Pembroke	29.924
Scilly	29.960
Hurst Castle	29.978
Dover	29.955
LONDON	29.966
Oxford	29.948
Cambridge	29.943
Yarmouth	29.928





# GENERAL SITUATION AT 8 A.M.

PRESSURE	Highest, 30.5 in. and upwards, in the extreme west of Ireland. Lowest, 29.6 in. and less, over the Baltic, relatively low 29.9 in. and less, over the Gulf of Genoa.
TEMPERATURE	Highest, 65° at Gornna, 64° at Århus and Dublin, 62° at Åre, 61° at Jæren, 58° at Seilly and Howells, and 57° at Hildes. Lowest, 43° at Haparanda, 45° at Helsingfors, 46° at Stockholm, Christianmünd and Harrowden, and 47° at Oxford.
WIND	Chiefly N <sup>W</sup> in the north, but NE <sup>W</sup> in the south. Light to fresh in force in our Islands and France, but strong in Scandinavia and Denmark, with gales in Sweden. At Haparanda a hurricane is reported to have occurred during the night.
WEATHER	Fair generally, but dull in Germany, the Netherlands, and the south of Sweden, with rain at Berlin. [Rain fell yesterday at some of the Scandinavian stations.]
SEA	Moderate at Christianmünd, Skagen, Spurn H <sup>d</sup> , Harmouth, Helder and Cbris Key, but slight or smooth elsewhere.

## PROBABLE CHANGES IN SYSTEM NOW PREVALENT

The large depression noticed over the north of Scandinavia yesterday has travelled away southwards, and the barometer is rising again in Scandinavia and the north of Scotland. Elsewhere, however, a gradual fall is in progress.

There are at present no signs of the advance of any new depression, and fair weather is therefore likely to continue over the greater part of our Islands.

## FORECASTS

For the 24 hours ending at NOON on 21<sup>st</sup> Sept.

1887.

DISTRICTS.	FORECASTS.	DISTRICTS.	FORECASTS.
0 SCOTLAND NORTH	N <sup>W</sup> and N <sup>E</sup> winds, moderate; fair generally, but some cold showers.	6 SCOTLAND WEST	N <sup>E</sup> and NW <sup>W</sup> winds, light; fair generally.
1 SCOTLAND EAST	.....D <sup>o</sup> .....D <sup>o</sup> .....D <sup>o</sup> .....	7 ENGLAND N.W.	.....D <sup>o</sup> .....D <sup>o</sup> .....D <sup>o</sup> .....
2 ENGLAND N.E.	.....D <sup>o</sup> .....D <sup>o</sup> .....D <sup>o</sup> .....	8 ENGLAND S.W.	N <sup>E</sup> and NE <sup>W</sup> winds, light or moderate; fine generally.
3 ENGLAND EAST	Same as No 5	9 IRELAND NORTH	Same as No 0 to 2
4 MIDLAND COUNTIES	Same as No 5	10 IRELAND SOUTH	Same as No 8
5 ENGLAND SOUTH	N <sup>E</sup> winds, light or moderate; fair generally, but possibly some 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 ...	30.01	54	53	WNW 6	7f	4	Holyhead ...	30.52	56	52	WNW 4	cq	3
Sumburgh Head ...	30.12	52	52	WNW 4	7	5	Valencia ...	30.53	65	57	WNW 1	bm	1
Stornoway ...	30.44	56	55	NW 5	0	4	Scilly ...	30.50	57	53	ENE 4	bc	2
Aberdeen ...	30.38	58	53	NW 5	c	2	Dungeness ...	30.40	59	56	NE 4	c	3
Shields ...	30.43	57	53	ENE 2	c	2	London ...	30.45	59	52	NNE 3	c	*
Ardrossan ...	30.47	59	55	WNW 5	0	4	Yarmouth ...	30.41	57	54	WNW 4	c	4
Malin Head ...	30.56	53	54	WNW 3	0	2	Jersey ...	30.44	60	54	NE 3	bc	3
Mullaghmore ...	30.50	59	54	N 1	c	1	Rocheport ...	30.31	69	59	ENE 7	b	2
Belmullet ...	30.60	52	53	NNE 1	6	*							

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

The reports for yesterday morning showed that two large anticyclones were lying over Europe,—the first, in which readings exceeded 30.6 ins: being situated over the west of the British Isles, while the second, with readings above 30.3 ins: was reported over Central Russia. The lowest pressures 29.6 ins: and less, were found in a large depression, which had appeared over Lapland. Over Northern Europe the wind was therefore chiefly W<sup>ly</sup>, but in our Islands and France it drew into N. and NE. and over Central Europe and the Mediterranean it was variable, while over Russia it was E<sup>ly</sup> or SE<sup>ly</sup>. The weather was rainy in the west of Norway as well as at Lumburgh Hd and Neufahrwasser, but fair or fine in all other localities. Temperature had risen a little in Scandinavia and the north of our Islands, as well as at several of the Spanish stations, but fallen in most other countries; readings ranged from 70° and upwards over Algeria and Southern Europe to 45° or less over the Central parts of Ireland and Russia. The highest individual readings were 78° at Oran, 77° at Brindisi, 76° at Cap. Beum, Algiers and Malta, and 75° at Rostock, the lowest were 39° at Moscow, 40° at Bournemouth, 46° at Helsingfors, 47° at Rode and York, and 48° at Haparanda, Helsingfors, Uleaborg and Leith.

In the course of the day the large depression over the north of Scandinavia travelled southeastwards, and the wind in Norway and Sweden drew into the NW. and increased in force. Elsewhere little 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.



# DAILY WEATHER REPORT.

for Wednesday 21<sup>st</sup> Sept.

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.		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.)		Weather.	Max.		Min.	
SCANDINAVIA.																		
Haparanda ..	29.89	35	N	4	b	29.95	+ .23	40	39	- 1	S	2	bc	*	46	32	—	
Hernösand ..	29.99	44	NNW	6	b	30.05	+ .33	45	42	0	NW	2	o	*	65	41	—	
Stockholm ..	29.93	45	NW	6	bc	30.11	+ .42	44	39	- 2	N	6	b	*	64	41	—	
Wisby ..	29.87	51	N	8	o	30.00	+ .42	48	47	- 1	N	6	bc	*	54	43	—	
Bodö ..	29.99	45	W	4	o	29.87	- .10	48	48	+ 5	W	4	r	2	48	41	0.24	
Christiansund...	30.24	47	WSW	4	o	30.11	- .06	50	48	+ 4	SW	6	r	4	50	45	—	
Skudesnaes ..	30.24	57	NNW	6	o	30.28	+ .12	50	47	- 1	L	0	c	2	54	50	—	
Christiania Fjord (Ferder)	30.09	55	N	3	b	30.23	+ .25	49	44	0	NE	2	b	1	57	48	—	
Skagen (The Scaw)	30.08	55	N	3	b	30.24	+ .32	50	44	- 3	NE	2	b	2	57	46	—	
Faro ..	30.15	47	N	1	b	30.26	+ .29	51	47	- 4	N	1	b	*	63	41	—	
BRITISH ISLANDS.																		
Sumburgh Head	30.30	49	W	1	o	30.28	- .01	50	48	+ 1	W	1	o	2	51	45	0.01	
Stornoway ..	30.41	53	L	0	o	30.37	- .07	50	50	- 2	L	0	o	2	54	48	—	
Wick ..	30.39	53	NW	2	o	30.36	- .04	48	48	- 4	NW	1	o	0	53	47	0.05	
Nairn ..	30.41	54	L	0	o	30.39	- .05	51	49	- 2	L	0	om	1	56	49	—	
Aberdeen...	30.40	63	NNW	2	o	30.38	- .01	50	49	- 3	NNW	1	om	1	56	48	—	
Leith ..	30.39	50	SE	1	b	30.40	0.00	52	50	- 2	WSW	1	om	*	61	49	—	
Shields ..	30.29	53	NE	2	o	30.39	0.00	52	50	- 2	L	0	o	2	56	50	—	
Spurn Head ..	30.32	54	N	6	c	30.37	+ .02	53	51	- 2	NE	4	cpd	4	56	50	0.01	
York ..	30.38	54	N	2	o	30.36	- .02	52	50	0	N	1	c	*	57	49	—	
Loughborough	30.37	55	N	3	o	30.39	+ .01	52	50	+ 4	NNE	2	o	*	62	47	—	
Ardrossan ..	30.36	61	NNW	1	bm	30.40	+ .01	50	49	- 2	ENE	1	and	0	62	45	—	
Malin Head ..	30.40	55	NNE	3	o	30.37	- .07	53	52	- 1	NW	1	o	2	55	52	—	
Mullaghmore ..	30.42	55	ENE	5	om	30.39	- .09	53	49	- 2	E	2	om	2	58	52	—	
Belanulet ..	30.40	55	NE	2	o	30.39	- .12	53	50	0	E	1	o	*	57	52	—	
Donaghadee ..	30.29	55	NNE	4	o	30.40	- .02	52	53	- 1	SE	2	o	0	60	53	—	
GERMANY.																		
Barrow-in-Farress	30.35	59	NE	2	b	30.39	+ .02	52	50	- 1	E	3	o	*	62	49	—	
Liverpool (Bidston)	30.37	56	NNE	1	m	30.40	+ .02	57	49	- 5	ESE	1	o	1	59	48	—	
Holyhead ..	30.35	56	NNW	1	b	30.37	- .02	53	51	- 3	L	0	mur	0	58	49	—	
Parsonstown ..	30.29	58	L	0	c	30.39	- .09	47	46	+ 1	L	0	o	*	64	43	—	
Valencia ..	30.38	58	SW	1	bm	30.35	- .10	52	57	- 3	L	0	bmw	0	65	44	—	
Roche's Point...	30.38	61	SE	1	b	30.34	- .10	52	50	0	NNW	2	om	3	61	47	—	
Pembroke ..	30.32	55	NNE	3	b	30.35	- .04	52	57	- 4	E	2	m	1	61	51	—	
Scilly ..	30.30	57	NE	4	b	30.29	- .08	57	55	- 1	E	4	bm	2	60	55	—	
Prawle Point ..	30.31	58	NE	1	b	30.33	- .03	53	57	- 5	ENE	5	o	5	66	51	—	
Jersey ..	30.27	62	NE	3	bc	30.26	- .07	58	55	- 3	ENE	4	omg	3	65	56	0.04	
Hurst Castle ..	30.29	61	ENE	3	m	30.33	- .03	54	52	+ 3	NE	4	bc	1	66	50	—	
Dungeness ..	30.25	58	NE	5	c	30.28	- .03	54	54	+ 1	NNE	3	o	2	63	52	—	
London ..	30.32	56	ENE	3	o	30.35	+ .01	52	57	+ 2	NNE	2	opd	*	63	49	—	
Oxford ..	30.36	55	NE	3	o	30.37	- .01	52	49	+ 5	NE	2	o	*	65	47	—	
Cambridge ..	30.35	55	N	2	r	30.36	+ .01	52	52	- 1	N	1	o	*	62	48	0.07	
Yarmouth ..	30.29	55	N	4	c	30.32	+ .02	54	52	+ 2	NE	4	cv	4	57	50	0.01	
Cuxhaven ..	30.09	57	NNW	4	b	30.25	+ .26	56	57	- 1	NNE	2	b	*	57	53	—	
Berlin ..	30.00	57	NW	3	b	30.15	+ .27	48	43	- 6	NW	2	b	*	61	43	—	
Wiesbaden ..	*	*	*	*	*	30.25	+ .10	57	48	- 4	NNW	3	o	*	61	45	—	
Munich ..	30.05	50	W	3	r	30.20	+ .01	47	45	- 4	NW	3	c	*	55	43	0.16	
FRANCE & NETHERLANDS.																		
The Heider ..	30.21	50	NNE	3	bc	30.27	+ .10	55	57	- 2	NNE	1	c	1	59	54	—	
Brussels ..	*	*	*	*	*	30.22	+ .04	53	57	- 1	NE	3	bc	*	58	50	0.04	
Cape Gris Nez...	30.23	56	NE	8	r	30.27	- .03	56	55	0	NNE	7	c	5	61	54	—	
Paris ..	30.20	57	N	4	o	30.23	- .05	49	47	- 4	NE	4	b	*	59	46	—	
Brest ..	30.24	58	NE	5	o	30.25	- .09	56	54	- 8	NE	4	o	3	?	46	—	
Lorient ..	30.19	61	NE	4	b	30.19	- .14	57	57	+ 3	E	8	o	3	70	52	—	
Rochefort ..	30.16	62	NE	7	o	30.10	- .15	57	55	+ 4	ENE	5	o	2	72	?	—	
Belfort ..	30.05	57	N	4	o	30.12	+ .02	53	47	- 3	NNE	4	b	*	62	43	—	
Lyons ..	29.99	58	N	5	c	30.01	- .04	57	50	- 1	N	3	c	*	59	57	—	
Nice ..	29.88	62	SW	3	b	29.78	- .12	62	53	0	E	3	b	1	72	55	—	
Perpignan ..	29.95	59	NW	3	r	29.88	- .15	60	54	+ 2	NNW	3	c	*	67	57	0.08	
Biarritz ..	30.03	65	NE	7	c	29.97	- .20	57	55	+ 7	E	4	o	2	66	?	—	
Corunna ..	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	
Lisbon ..	29.97	66	NNW	5	o	29.87	- .18	64	61	0	NW	4	c	4	73	63	—	

For Explanation of Columns, see p. 4.



# WEATHER CHARTS

for 8 a.m. on

WEDNESDAY 21<sup>st</sup> SEPTEMBER

1887.

## BAROMETER, WIND & SEA.

(Explanation of Map)

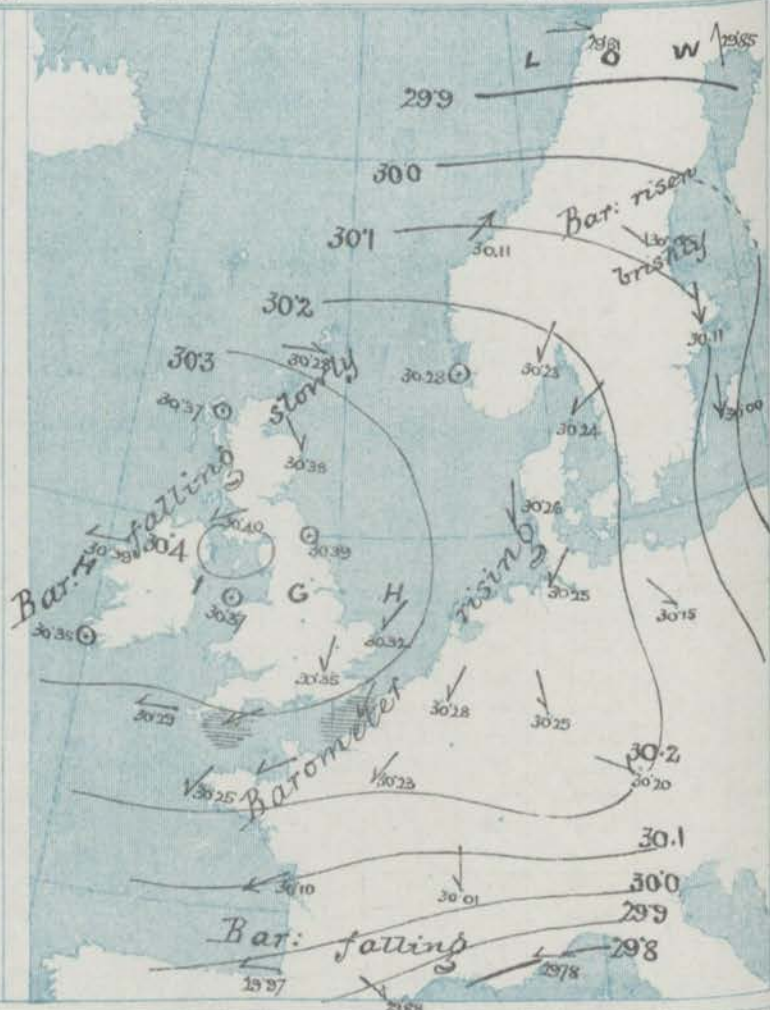
**Barometer**—Isobars are drawn for each tenth of an inch. Changes since previous morning are stated in words.  
**Wind**—Arrows show the prevalent winds. They fly with the wind and their barbs and feathers refer to force, thus—  
 — force above 10, — forces 6 to 10,  
 — force 5 to 7, — forces 1 to 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 September.  
 During the 10 Years 1871—1880.

STATIONS.	MEAN READINGS.
	in.
Sumburgh Head	29.758
Stornoway	29.781
Wick	29.788
Nairn	29.812
Aberdeen	29.815
Leith	29.851
Shields	29.876
York	29.913
Ardrossan	29.858
Donaghadee	29.875
Holyhead	29.903
Liverpool	29.910
Valencia	29.929
Roche's Point	29.923
Pembroke	29.924
Scilly	29.960
Hurst Castle	29.978
Dover	29.955
LONDON	29.956
Oxford	29.943
Cambridge	29.943
Yarmouth	29.928



## 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 September.

STATIONS	TEMPERATURE.				RAINFALL. (Inches)
	Daily Max.	Daily Min.	Average Dry.	Average Wet.	
Sumburgh Head	55.2	46.2	50.6	49.0	3.46
Stornoway	55.9	45.4	51.0	49.7	4.13
Wick	57.5	45.3	51.0	49.7	2.66
Nairn	59.0	47.0	51.3	48.8	2.73
Aberdeen	58.0	47.1	52.0	49.5	3.22
Leith	62.7	47.8	53.6	51.1	2.47
Shields	60.0	49.0	53.4	51.2	2.58
York	63.2	47.3	53.1	51.2	2.98
Ardrossan	59.9	49.9	53.6	51.0	3.87
Donaghadee	59.5	49.2	53.3	52.1	3.22
Holyhead	61.1	53.1	55.0	53.4	3.35
Liverpool	61.3	51.2	54.7	52.0	3.56
Valencia	61.9	52.0	55.4	53.9	4.87
Roche's Point	62.0	51.7	55.4	53.2	4.39
Pembroke	60.4	53.4	56.8	53.9	3.89
Scilly	61.9	55.2	58.5	56.5	3.09
Hurst Castle	64.4	52.9	57.8	56.3	3.35
Dover	63.1	52.8	58.3	55.4	2.86
LONDON	66.9	49.3	56.4	54.0	2.59
Oxford	63.8	49.0	54.2	52.4	2.91
Cambridge	65.8	48.5	54.5	52.9	2.48
Yarmouth	62.3	50.8	56.3	54.4	3.17

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 to 30.4 in. in a large anticyclone lying over the British Islands.  
Lowest, 29.8 in. and less in a depression lying over the Gulf of Genoa, 29.9 in. and less in the north of Scandinavia.  
The barometer is falling a little in most places, - decidedly in the northwest of Norway.

### TEMPERATURE

Highest, 64° at Lisbon, 62° at Nice, 60° at Perpignan, 58° at Jersey and 57° at Sally-tales in the west of France.  
Lowest, 40° at Haparanda, 44° at Stockholm, 45° at Helsingfors & 47° at Parosutoron and Munich.

### WIND

Light NW<sup>ly</sup> in the north and east of Scotland, N<sup>ly</sup> in Denmark and the Netherlands.  
Moderate to fresh from NE. or E. over France and the south of England.  
Strong from SW at Christiansund and from N. in the south of Sweden.

### WEATHER

Fine in Denmark, North Germany, the Netherlands, the south of Sweden and the southwest of our islands.  
Cloudy or overcast elsewhere, with rain in the northwest of Norway, & slight drizzle at Spurn Head & in London.  
[Lightning was seen at Prawle Point during the night.]

### SEA

Rather rough at Prawle Point and C. G. N. T. and moderate off the east of England, but slight or smooth elsewhere.

### PROBABLE CHANGES IN SYSTEM NOW PREVALENT

The new depression which is appearing in the far north will probably occasion freshening winds from NW or NW. and rain in the north of Scotland. Elsewhere, however, no important change is likely at present.

## FORECASTS

For the 24 hours ending at NOON on 22<sup>nd</sup> September 1887.

### DISTRICTS.

### FORECASTS.

0	SCOTLAND NORTH	NW <sup>ly</sup> winds, light to fresh; dull, some rain.
1	SCOTLAND EAST	-----D-----D-----D-----
2	ENGLAND N.E.	N <sup>ly</sup> winds, moderate; cloudy; local showers.
3	ENGLAND EAST	Same as N <sup>o</sup> 5.
4	MIDLAND COUNTIES	Same as N <sup>o</sup> 5.
5	ENGLAND SOUTH	N <sup>ly</sup> and NE <sup>ly</sup> winds, moderate; fair generally, but slight local showers.



### DISTRICTS.

### FORECASTS.

6	SCOTLAND WEST	Variable breezes, finally N <sup>ly</sup> , fair generally.
7	ENGLAND N.W.	-----D-----D-----D-----
8	ENGLAND S.W.	E <sup>ly</sup> and NE <sup>ly</sup> winds, fresh; fair generally.
9	IRELAND NORTH	Light breezes, chiefly NE <sup>ly</sup> , fair generally.
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.	Wes.	Sea.		Bar.	Dry.	Wet.	Wind.	Wes.	Sea.		
Skudonnes ...	30.19	54.	48	NNW	6	6	4	Holyhead ...	30.38	58	54	NNW	2	bc	2
Sumburgh Head ...	30.32	53	49	NNW	2	0	3	Valencia ...	30.40	65	58	S	1	bom	0
Stornoway ...	30.43	54	53	E	3	0	3	Scilly ...	30.24	59	55	NNE	3	bc	3
Aberdeen ...	30.44	56	53	NNW	4	0	2	Dungeness ...	30.25	60	57	NNE	4	0	3
Shields ...	30.39	55	51	N	3	0	4	London ...	30.33	59	54	NW	2	0	*
Ardrossan ...	30.38	61	56	WNW	2	6	1	Yarmouth ...	30.29	56	54	N	5	cg	5
Malin Head ...	30.43	55	54	NNW	3	0	3	Jersey ...	30.29	65	58	NNE	3	6	3
Mullaghmore ...	30.45	56	52	NNW	4	om	2	Rocheport ...	30.20	71	62	NE	5	6	2
Belmullet ...	30.45	57	52	ENE	2	0	*								

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

The reports for yesterday morning showed that pressure was highest, 30.5 in. and upwards, in a large anticyclone the centre of which lay off the west of Ireland. The large depression noticed over the north of Scandinavia on Monday had travelled southeastwards to the Baltic provinces and the anticyclone over Central Russia had entirely disappeared.

The wind was NW. or N. over all the more northern countries, and strong to a gale in force over the Baltic, but in the west of France and also on the Algerian coast it was NE<sup>ly</sup>, while in the south of Italy it was SE<sup>ly</sup>. The weather was fair on the whole, but a good deal of cloud was reported locally. Temperature had risen slightly over Ireland and England, but fallen elsewhere and readings ranged from 70° and upwards over Algeria and the southern parts of Italy and Spain to 45° or less in the north of Scandinavia. The highest individual readings were 78° at Algiers, 77° at Oran, 75° at Brindisi; the lowest were 41° at Haparanda, 43° at Bodö, 44° at Moscon and 45° at Helsingfors and Uleåfjord.

In the course of the day very little change was observed either in pressure, wind or weather, but a little misty rain occurred over the east & southeast of England in the evening.

### EXPLANATION OF COLUMNS GIVEN ON PAGE 1.

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

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

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

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



# DAILY WEATHER REPORT.

for Thursday 22<sup>nd</sup> September

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.		Sec. (0 to 9.)	SHADE TEMP.		Amount of Rainfall.		
			Dir.	Force, (0 to 12.)		Reading at 32° F. and Sea Level.	Difference from 8 a.m. yesterday.	Dry.	Wet.	Difference from 8 a.m. yesterday.	Dir.	Force, (0 to 12.)		Weather.	Max.		Min.	
SCANDINAVIA.																		
Haparanda	29.71	48	Z	0	b	29.64	-0.21	50	48	+10	W	2	c	*	52	37	-	
Hernösand	29.97	51	N	2	0	29.91	-0.14	52	48	+7	W	2	bc	*	63	37	-	
Stockholm	30.09	48	Z	0	0	30.02	-0.09	48	46	+4	Z	0	b	*	61	39	-	
Wisby	30.09	51	NW	4	b	30.02	+0.02	51	49	+3	WSW	2	bc	*	52	45	-	
Bodo	30.13	56	WSW	4	bc	29.66	-1.5	53	50	+5	NW	1	c	1	59	?	-	
Christiansund	29.99	51	SW	9	0	29.99	-1.2	50	49	0	SW	6	r	0	52	48	0.08	
Skudeaues	30.24	52	NW	4	0	30.19	-0.09	55	52	+5	NW	4	c	3	?	50	-	
Christiania Fjord (Varder)	30.06	56	SW	3	b	30.01	-1.22	58	48	+9	NW	3	b	1	?	?	-	
Skagen (The Scaw)	30.11	51	NW	1	b	29.99	-1.25	56	54	+6	N	2	0	1	57	48	-	
Fanö	30.25	51	W	3	b	30.17	-0.09	53	51	+2	WNW	4	0	*	61	46	-	
BRITISH ISLANDS.																		
Sumburgh Head	30.26	51	W	1	c	30.18	-1.10	52	51	+2	WSW	1	c	2	54	47	-	
Stornoway	30.34	53	W	2	0	30.31	-0.06	52	50	+2	Z	0	of	2	55	48	-	
Wick	30.33	52	NW	1	bc	30.29	-0.07	52	50	+4	WSW	3	bc	0	55	47	-	
Nairn	30.35	50	Z	0	bc	30.33	-0.06	51	49	0	SW	1	b	1	54	47	-	
Aberdeen	30.35	53	Z	0	0	30.33	-0.05	51	49	+1	W	1	bc	0	56	46	-	
Leith	30.36	53	SE	1	0	30.34	-0.06	53	51	+1	SE	1	om	*	55	51	-	
Shields	30.36	53	ESE	2	0	30.32	-0.07	52	50	0	SW	1	om	2	55	49	-	
Spurn Head	30.37	53	NNE	3	c	30.34	-0.03	52	50	-1	N	3	cq	3	57	50	0.01	
York	30.38	55	ESE	1	0	30.35	-0.01	51	49	-1	S	1	c	*	58	48	-	
Loughborough	30.36	55	ESE	2	0	30.36	-0.03	51	49	-1	NE	2	gom	*	58	50	-	
Ardrossan	30.35	55	WNW	1	om	30.34	-0.06	54	52	+4	Z	0	om	0	55	50	-	
Malin Head	30.34	54	NNE	1	0	30.34	-0.03	54	54	+1	SW	1	om	0	56	53	-	
Mullaghmore	30.34	56	ESE	2	om	30.33	-0.06	54	53	+1	E	2	m	2	58	52	-	
Behanliet	30.35	55	NNE	1	b	30.34	-0.05	54	52	+1	E	1	0	*	59	50	-	
Donaghadee	30.36	55	S	2	c	30.35	-0.05	54	53	0	E	2	0	0	56	53	-	
Barrow-in-Furness	30.34	56	N	2	b	30.36	-0.03	52	50	0	SE	3	0	*	57	52	-	
Liverpool (Bidston)	30.35	55	SE	1	0	30.38	-0.02	51	47	0	SE	1	of	2	58	50	-	
Holyhead	30.33	56	NNE	2	m	30.33	-0.04	54	52	+1	Z	0	m	0	58	51	-	
Parsonstown	30.34	59	Z	0	0	30.33	-0.06	54	52	+7	Z	0	0	*	60	46	-	
Valencia	30.29	59	WSW	1	bm	30.31	-0.04	56	53	+4	E	2	of	2	64	50	-	
Roche's Point	30.31	58	SE	2	0	30.30	-0.04	53	51	+1	ESE	2	om	3	60	48	-	
Pembroke	30.31	55	SE	2	c	30.30	-0.05	52	48	0	ESE	2	cq	1	56	50	-	
Scilly	30.24	55	E	4	0	30.21	-0.08	56	53	-1	ESE	5	0	4	59	54	-	
Prawle Point	30.27	56	NE	4	0	30.25	-0.08	57	54	+4	NE	6	bc	5	58	52	-	
Jersey	30.20	59	ESE	4	c	30.20	-0.06	57	52	-1	ESE	5	bm	4	61	51	-	
Hurst Castle	30.27	57	ESE	4	m	30.28	-0.05	55	53	+1	ESE	2	bm	1	60	49	-	
Dungeness	30.23	58	ESE	4	c	30.26	-0.02	59	57	+5	ESE	3	b	2	61	53	-	
London	30.31	56	ESE	3	0	30.32	-0.03	55	51	+3	NNE	1	bcw	*	59	50	-	
Oxford	30.34	53	NE	4	0	30.33	-0.04	52	48	0	NE	3	0	*	55	49	-	
Cambridge	30.32	54	NNE	1	0	30.34	-0.02	55	50	+3	N	1	0	*	50	49	-	
Yarmouth	30.33	56	NE	3	cv	30.32	-0.01	56	52	+2	NE	1	bcv	3	60	52	-	
Cuxhaven	30.22	52	N	2	b	30.24	-0.01	54	52	-1	NW	3	c	*	56	51	-	
Berlin	30.23	50	NW	1	b	30.22	+0.07	45	43	-3	WNW	1	bc	*	57	39	-	
Wiesbaden	*	*	*	*	*	30.28	+0.03	44	42	-4	NE	1	b	*	59	37	-	
Munich	30.17	41	E	2	b	30.26	+0.06	39	37	-8	NE	2	b	*	52	32	-	
FRANCE & NETHERLANDS.																		
The Helder	30.31	54	NE	1	b	30.29	+0.02	53	51	-2	NE	1	bcv	3	59	52	-	
Brussels	*	*	*	*	*	30.29	+0.01	49	46	-4	E	1	b	*	61	49	-	
Cape Gris Nez	30.24	57	NE	5	b	30.25	-0.02	50	47	-6	ESE	3	b	2	63	46	-	
Paris	30.19	56	NE	3	b	30.21	-0.02	43	41	-6	NNE	3	b	*	64	35	-	
Brest	30.15	59	E	5	0	30.13	-1.2	?	49	?	NE	5	0	2	?	48	-	
Lorient	30.10	62	E	8	b	30.13	-0.06	50	47	-7	ESE	5	b	3	64	48	-	
Rochefort	30.16	66	ESE	5	b	30.02	-0.08	51	50	-6	ESE	5	b	2	73	48	-	
Belfort	30.09	55	NNE	3	b	30.17	+0.05	48	43	-5	NNE	5	b	*	62	38	-	
Lyons	29.99	59	WNW	3	b	30.14	+1.3	45	43	-6	WNW	1	b	*	66	35	-	
Nice	29.95	66	Z	0	c	30.05	+2.7	61	55	-1	E	5	bc	6	73	60	-	
Perpignan	29.89	63	Z	0	b	30.03	+1.5	54	53	-6	Z	0	b	*	51	50	-	
Biarritz	29.96	64	N	4	b	29.94	-0.03	61	57	+4	SSW	3	b	2	66	57	-	
PENINSULA.																		
Corunna	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	-
Lisbon	29.79	61	N	4	bc	29.72	-1.5	62	61	-2	E	4	c	2	75	61	0.08	

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



# WEATHER CHARTS

for 8 a.m. on

Thursday, 22<sup>nd</sup> September

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.

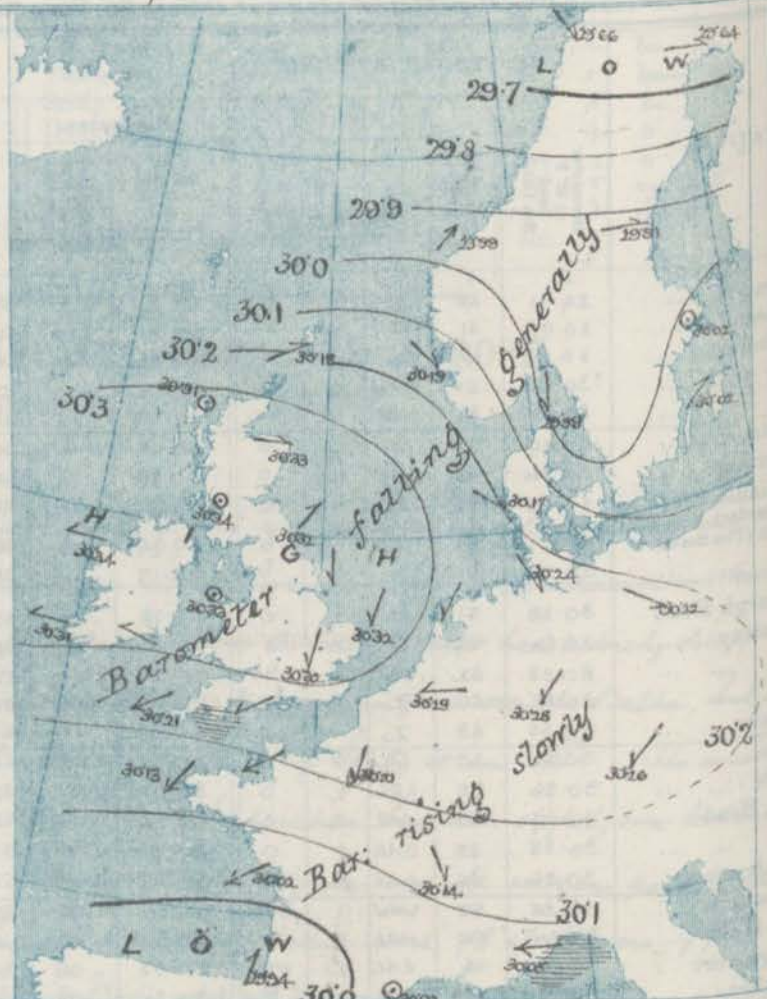
**Sea Disturbance** — where considerable is shown thus

■ = Rough, ■ = High

## MEAN HEIGHT of the BAROMETER

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

STATIONS.	MEAN READINGS.
	in.
Sumburgh Head	29.758
Stornoway	29.781
Wick	29.786
Nairn	29.812
Aberdeen	29.815
Leith	29.851
Shields	29.876
York	29.913
Ardrossan	29.858
Donaghadee	29.875
Holyhead	29.903
Liverpool	29.910
Valencia	29.929
Roche's Point	29.923
Pembroke	29.924
Scilly	29.960
Hurst Castle	29.978
Dover	29.955
LONDON	29.956
Oxford	29.948
Cambridge	29.943
Yarmouth	29.928



## 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.

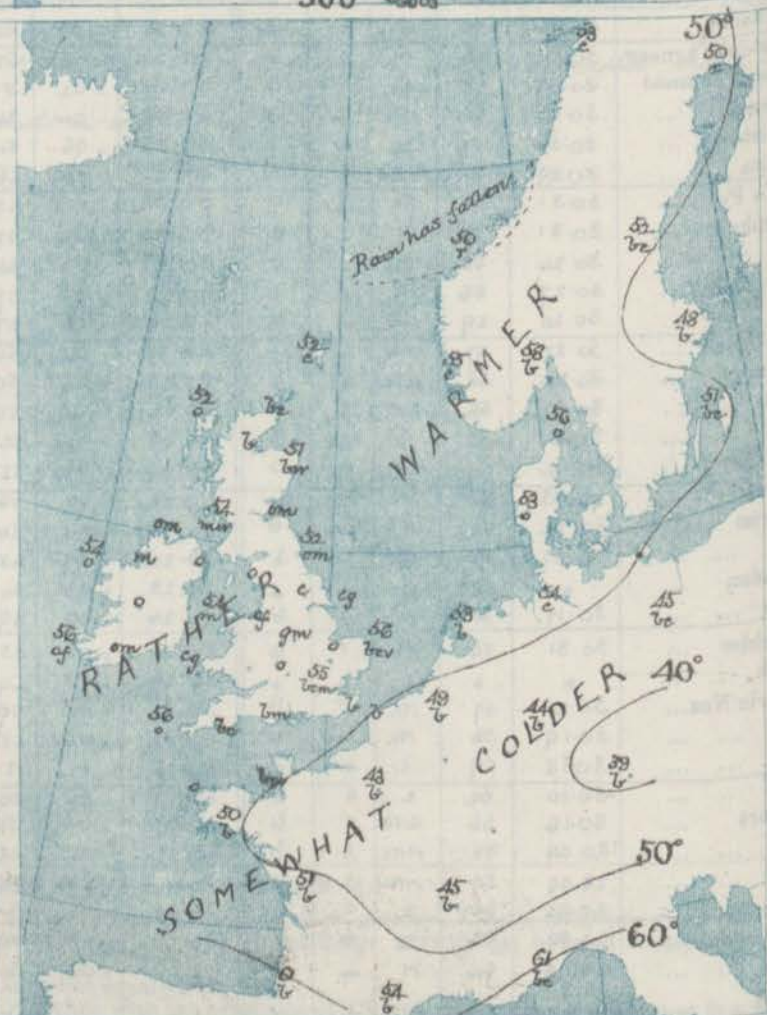
**Rainfall** — A dotted line separates the districts in which rain has fallen from those where there has been none. Falls of 0.5 in. or more, are quoted in figures.

## MEANS OF TEMPERATURE IN SHADE, AND RAINFALL.

for the month of September.

STATIONS	TEMPERATURE				RAINFALL (Inches)
	Daily Max	Daily Min.	At 8 a.m.	At 4 p.m.	
Sumburgh Head	55.2	46.2	50.8	49.0	3.46
Stornoway	55.9	45.4	51.0	49.7	4.13
Wick	57.5	46.8	51.6	49.7	2.66
Nairn	59.0	47.0	51.3	48.8	2.73
Aberdeen	58.0	47.1	52.0	49.6	3.22
Leith	62.7	47.8	53.5	51.1	2.47
Shields	60.0	49.0	53.4	51.2	2.58
York	63.2	47.3	53.1	51.2	2.98
Ardrossan	59.9	49.9	53.6	51.0	3.87
Donaghadee	59.5	49.2	53.3	52.1	3.22
Holyhead	61.1	53.1	55.6	53.4	3.35
Liverpool	61.3	51.2	54.7	52.0	3.56
Valencia	61.9	52.0	56.4	53.9	4.87
Roche's Point	62.0	51.7	56.4	53.2	4.89
Pembroke	60.4	53.4	56.3	53.9	3.89
Scilly	61.9	55.2	58.5	56.5	3.09
Hurst Castle	64.4	52.9	57.8	56.3	3.35
Dover	63.1	52.8	58.3	55.4	2.86
LONDON	66.9	49.3	60.4	54.0	2.59
Oxford	63.8	49.0	54.2	52.4	2.91
Cambridge	65.8	48.5	54.5	52.9	2.48
Yarmouth	62.3	50.8	56.3	54.4	3.17

NOTE — The Temperature means are for the 10 years 1871—80, the Rainfall means are mainly those for the 20 years 1868—85.





# GENERAL SITUATION AT 8 A.M.

PRESSURE	Highest, 30.2 ins: and upwards, in an anticyclone lying over the greater part of the United Kingdom. Lowest, 29.7 ins: and less, in the north of Scandinavia, and 29.8 ins: and less, in the neighbourhood of Lisbon. A shallow depression, subsidiary to the low pressure in the far north, is lying over the south of Sweden.
TEMPERATURE	Highest, 62° at Lisbon, 61° at Nice and Biarritz, 59° at Angers, and 57° at Hawk Point and Jersey. Lowest, 39° at Munich, 44° at Wiesbaden, 46° at Berlin, 48° at Stockholm, and 50° at Haparanda and Christiansund.
WIND	Light W <sup>2</sup> in the northern parts of Scotland and Scandinavia; moderate NW <sup>1</sup> on the eastern shore of the North Sea. E or NE <sup>1</sup> in the south of our Islands and the west of France; fresh in force in the Bay of Biscay and western part of the Channel. Light and variable over Germany and the north of England.
WEATHER	Dull and misty over Ireland and the northern and central parts of England. Fair or fine in most other localities, but raining at Christiansund.
SEA	Rather rough at Hawk Point and moderate at the mouth of the Channel, but slight or smooth elsewhere.

## PROBABLE CHANGES IN SYSTEM NOW PREVALENT

The barometer is falling generally, but the change is fairly uniform, and there is no indication of any important alteration in the general distribution of pressure.

## FORECASTS

For the 24 hours ending at NOON on 23<sup>rd</sup> Sept<sup>r</sup>

1887.

DISTRICTS.	FORECASTS.	DISTRICTS.	FORECASTS.
0 { SCOTLAND NORTH	W <sup>2</sup> winds, light or moderate; fair generally.	6 { SCOTLAND WEST	Same as No 1.
1 { SCOTLAND EAST	Light variable airs; fair generally, but some fog or mist.	7 { ENGLAND N. W.	E <sup>2</sup> or SE <sup>2</sup> winds, light; cloudy generally, with some fog or mist.
2 { ENGLAND N. E.	-----D°-----D°-----D°-----	8 { ENGLAND S. W.	E <sup>2</sup> winds, fresh; fair generally.
3 { ENGLAND EAST	NE <sup>2</sup> winds, light or moderate; fair generally.	9 { IRELAND NORTH	Same as No 7.
4 { MIDLAND COUNTIES	-----D°-----D°-----D°-----	10 { IRELAND SOUTH	Same as No 7.
5 { ENGLAND SOUTH	E <sup>2</sup> or NE <sup>2</sup> winds, light; fine.	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	56	53	W 2	0	2	Holyhead ...	30.35	57	53	E 1	bm	1
Sumburgh Head ...	30.27	53	52	W 1	0	2	Valencia ...	30.32	63	58	SW 3	bm	3
Stornoway ...	30.26	55	54	W 2	0	2	Scilly ...	30.27	57	53	E 4	0	3
Aberdeen ...	30.38	54	50	SE 1	0	1	Dungeness ...	30.27	60	53	NE 4	e	3
Shields ...	30.40	54	50	NE 1	0	2	London ...	30.33	58	53	N 3	e	*
Ardrossan ...	30.38	55	52	SE 1	0	0	Yarmouth ...	30.34	58	54	NE 4	e	4
Malin Head ...	30.36	56	55	NW 1	0	1	Jersey ...	30.23	61	56	E 5	0	4
Mullaghmore ...	30.37	56	52	E 2	em	3	Rochefort ...	30.07	70	62	E 7	b	2
Belmullet ...	30.38	58	53	N 1	bc	*							

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

The reports for yesterday morning showed that a large anticyclone in which readings varied from between 30.3 in. and 30.4 in. lay over our Islands, while a depression with readings below 29.5 in. existed over Northern Russia. Relatively low readings, 29.7 in. and less, were, however, reported over the whole of Eastern Europe. With this distribution of pressure the wind was light or moderate from the NW<sup>2</sup> in the north of our Islands and also over Central Europe, and strong from the same quarter or from N. over the Baltic, but in the south of our Islands and in France it was chiefly NE<sup>2</sup>, while in Spain, Italy and Algeria it was light and variable. The weather was fine over the Baltic, North Germany, the Netherlands and the southwest of our Islands, but very cloudy elsewhere, with rain over several parts of Eastern and Northern Europe. Temperature had fallen a few degrees generally, and readings ranged from 70° and upwards over Algeria and the southern part of Italy and Austria to 45° or less over Northern Europe. The highest individual readings were 76° at Legna, 75° at Algiers and Trieste, 72° at La Galle and Tunis and 71° at Oran; the lowest were 34° at Uleaborg, 33° at Kuopio, 40° at Haparanda, 43° at Hangö and Münster, and 44° at Stockholm and Helsingfors.

In the course of the day very little change occurred either in pressure winds or 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).

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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.	BAROMETR.		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 ..	29.65	48	Z	0	b	29.78	+0.09	41	40	-9	N	2	c	*	59	?	-	
Hernösand ...	29.60	50	Z	0	b	29.80	-1.1	46	44	-6	NW	4	b	*	63	46	0.24	
Stockholm ...	29.98	51	Z	0	bc	29.86	-1.16	50	44	+2	N	4	o	*	61	41	-	
Wisby ...	30.04	48	NNE	2	b	29.86	-1.16	51	50	0	N	2	b	*	57	45	-	
Bodö ...	29.71	45	W	4	c	30.04	+0.38	44	40	-9	WNW	4	bc	2	57	41	0.04	
Christiansund...	29.92	48	WSW	9	T	30.22	+0.23	46	42	-4	WNW	6	bc	5	54	43	0.20	
Skudesnaes ...	30.19	65	NW	4	T	30.25	+0.06	48	45	-7	WNW	4	o	3	55	?	-	
Christiania Fjord	30.00	57	WSW	3	b	30.04	+0.03	54	46	-4	WNW	5	b	1	59	54	-	
Skagen (The Sound)	30.01	52	Z	0	b	29.99	00	57	52	+1	N	5	b	4	59	48	-	
Faro ...	30.15	55	NW	6	o	30.16	-0.01	56	53	+3	NW	6	c	*	57	?	-	
BRITISH ISLANDS.																		
Sumburgh Head	30.21	52	WSW	2	b	30.43	+0.25	44	41	-8	N	1	bc	2	56	37	0.01	
Stornoway ...	30.36	54	Z	0	o	30.46	+0.15	55	55	+3	Z	0	of	2	57	50	-	
Wick ...	30.32	55	NW	2	o	30.47	+0.18	50	49	-2	NW	1	o	0	60	47	0.01	
Nairn ...	30.36	58	E	1	c	30.46	+0.13	52	49	+1	SW	1	c	1	62	50	-	
Aberdeen...	30.35	57	WNW	1	b	30.45	+0.12	55	52	+4	WNW	3	o	1	63	50	-	
Leith ...	30.35	55	SW	1	b	30.47	+0.13	51	49	-2	WSW	1	fw	*	60	45	-	
Shields ...	30.35	54	N	2	o	30.46	+0.14	51	49	-1	W	1	om	2	58	44	-	
Spurn Head ...	30.33	54	ESE	1	c	30.43	+0.09	53	52	+1	N	3	bc	2	56	49	-	
York ...	30.40	56	WNW	1	o	30.46	+0.11	46	46	-5	Z	0	f	*	59	39	-	
Loughborough	30.36	53	E	1	o	30.45	+0.09	49	48	-2	NE	1	omw	*	57	46	-	
Ardrossan ...	30.36	56	W	1	b	30.47	+0.13	51	49	-3	Z	0	bmw	0	62	45	-	
Malin Head ...	30.37	54	NNE	3	cm	30.45	+0.11	52	52	-2	SW	2	om	1	57	50	-	
Mullaghmore ...	30.36	57	E	2	m	30.46	+0.13	51	50	-3	E	4	bmw	2	58	47	-	
Belmullet ...	30.36	57	E	1	o	30.43	+0.09	50	49	-4	ESE	1	o	*	60	48	-	
Donaghadee ...	30.38	54	NE	1	o	30.48	+0.13	47	47	-7	S	1	m	0	58	43	-	
Barrow-in-Furness	30.36	55	N	2	c	30.45	+0.09	51	49	-1	NE	2	b	*	57	45	-	
Liverpool (Bidston)	30.36	54	WNW	1	o	30.46	+0.08	49	47	-2	ESE	2	bf	2	57	45	-	
Holyhead ...	30.34	54	NE	1	cm	30.44	+0.11	53	51	-1	Z	0	cwm	0	59	48	-	
Parsonstown ...	30.36	56	Z	0	o	30.43	+0.10	48	47	-6	Z	0	f	*	58	42	-	
Valencia ...	30.31	58	ESE	1	o	30.40	+0.09	53	51	-3	Z	0	bm	1	61	46	-	
Roche's Point...	30.31	58	ESE	3	cm	30.39	+0.09	55	52	+2	E	3	bm	4	59	48	-	
Pembroke ...	30.29	55	NE	2	b	30.39	+0.09	52	50	0	ESE	2	m	2	59	48	-	
Seilly ...	30.22	58	E	4	b	30.30	+0.09	56	55	0	E	5	c	4	61	54	-	
Prawle Point ...	30.25	57	ESE	6	b	30.36	+0.11	56	54	-1	ESE	5	b	5	62	52	-	
Jersey ...	30.21	60	NE	4	b	30.31	+0.11	59	55	+2	ESE	3	bm	3	64	53	-	
Hurst Castle ...	30.29	60	ESE	3	b	30.40	+0.12	50	49	-5	ESE	3	m	0	63	47	-	
Dungeness ...	30.27	58	E	5	b	30.35	+0.09	54	53	-5	N	2	bc	1	62	49	-	
London ...	30.32	55	E	2	bm	30.41	+0.09	52	50	-3	ESE	2	o	*	66	45	-	
Oxford ...	30.26	51	NE	3	b	30.44	+0.11	49	47	-3	NE	1	o	*	65	44	-	
Cambridge ...	30.33	54	NE	1	b	30.43	+0.09	51	50	-4	N	1	o	*	65	40	-	
Yarmouth ...	30.32	55	N	2	c	30.40	+0.08	56	52	0	NE	4	c	3	59	52	-	
Cuxhaven ...	30.21	57	NW	3	o	30.28	+0.04	58	57	+4	WNW	5	o	*	58	?	-	
Berlin ...	30.13	56	WSW	3	o	30.12	-0.10	53	50	+8	WNW	4	o	*	59	?	-	
Wiesbaden ...	*	*	*	*	*	30.32	+0.04	51	48	+7	NE	1	o	*	64	43	-	
Munich ...	30.25	46	Z	0	bc	30.28	+0.02	46	44	+7	SW	3	c	*	65	39	-	
FRANCE & NETHERLANDS.																		
The Helder ...	30.29	56	N	3	c	30.33	+0.04	56	52	+3	WNW	3	c	2	57	?	-	
Brussels ...	*	*	*	*	*	30.36	+0.07	51	49	+2	Z	0	o	*	62	46	-	
Cape Gris Nez...	30.28	57	NE	5	b	30.34	+0.09	52	52	+2	E	3	bc	1	63	46	-	
Paris ...	30.23	54	NNE	3	b	30.24	+0.03	43	43	0	N	1	b	*	66	40	-	
Brest ...	30.13	62	NE	7	o	30.25	+0.12	49	46	?	ESE	4	b	3	72	46	-	
Lorient ...	30.13	64	ESE	3	b	30.19	+0.06	52	?	+2	E	5	b	3	72	48	-	
Rochefort ...	30.11	68	NE	4	b	30.17	+0.15	54	52	+3	ESE	5	b	2	82	50	-	
Belfort ...	30.18	56	NE	3	b	30.25	+0.08	51	47	+3	NE	5	b	*	61	38	-	
Lyons ...	30.14	60	N	1	b	30.23	+0.09	46	45	+1	N	1	b	*	67	45	-	
Nice ...	30.10	61	E	3	b	30.14	+0.09	62	56	+1	E	1	b	2	70	54	-	
Perpignan ...	30.09	66	ESE	3	b	30.15	+0.12	53	53	-1	E	1	b	*	74	49	-	
Biarritz ...	30.01	68	ESE	3	b	30.08	+0.14	64	58	+3	SE	4	b	1	73	57	-	
PENINSULA.																		
Corunna ...	*	*	*	*	*	29.96	+0.26	62	61	-0	E	4	o	2	70	61	0.47	
Lisbon ...	29.86	66	SW	2	c	29.98	+0.26	62	61	-0	E	4	o	2	70	61	0.47	

For Explanation of Columns, see p. 4.





## 1887.

(Explanation of Map)

Wind ———— They fly with the wind and their beaks and feathers refer to force, this —

$\rightarrow$  = forces above  $X_0$ ,  $\rightarrow$  = forces 8 to  $X_0$   
 $\rightarrow$  = forces 5 to  $X_1$ ,  $\rightarrow$  = forces 1 to 4,  
 $\odot$  = dead calv.

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

at 8 a.m. for the month of September.  
During the 20 Years 1871—1890.

A hand-drawn weather map of the North Atlantic region, showing isobars, wind directions, and pressure trends. The map includes the following features:

- Isobars:** Labeled with values such as 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, 95.2, 95.3, 95.4, 95.5, 95.6, 95.7, 95.8, 95.9, 96.0, 96.1, 96.2, 96.3, 96.4, 96.5, 96.6, 96.7, 96.8, 9

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 September

A hand-drawn map of Europe and North Africa, overlaid with a grid of latitude and longitude lines. The map features several handwritten annotations and isotherms (lines of equal temperature).

- Annotations:**
  - "Rain has fallen" is written across the top of Europe, with a dashed line following its path.
  - "MOST PLACES" is written in the center of Europe.
  - "COLD" is written on the left side of Europe.
  - "WARMER" is written at the bottom of Europe.
  - "HERE" is written in the lower right, near the Mediterranean coast.
- Isotherms:**
  - 50° isotherms are drawn across the map, with some segments circled.
  - 60° isotherms are shown at the bottom of the map.
- Other Markings:**
  - Various numbers and symbols are scattered across the map, including "53", "51", "52", "54", "55", "56", "57", "58", "59", "60", "61", "62", "63", "64", "65", "66", "67", "68", "69", "70", "71", "72", "73", "74", "75", "76", "77", "78", "79", "80", "81", "82", "83", "84", "85", "86", "87", "88", "89", "90", "91", "92", "93", "94", "95", "96", "97", "98", "99", "100", "101", "102", "103", "104", "105", "106", "107", "108", "109", "110", "111", "112", "113", "114", "115", "116", "117", "118", "119", "120", "121", "122", "123", "124", "125", "126", "127", "128", "129", "130", "131", "132", "133", "134", "135", "136", "137", "138", "139", "140", "141", "142", "143", "144", "145", "146", "147", "148", "149", "150", "151", "152", "153", "154", "155", "156", "157", "158", "159", "160", "161", "162", "163", "164", "165", "166", "167", "168", "169", "170", "171", "172", "173", "174", "175", "176", "177", "178", "179", "180", "181", "182", "183", "184", "185", "186", "187", "188", "189", 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NOTE - The Temperature means are for the 30 years 1871-80, the Rainfall means are mainly those for the 30 years 1866-85



# GENERAL SITUATION AT 8 A.M.

## PRESSURE

Highest, 30.4 in: and upwards, in a large anticyclone lying over the greater part of the United Kingdom.  
Lowest, 29.8 in: and less, over the Gulf of Bothnia; relatively low, 30.0 in: and less, in the neighbourhood of Dublin.

## TEMPERATURE

Highest, 64° at Rionitz, 62° at Nice and Lisbon, 59° at Jersey and 58° at Cuxhaven.  
Lowest, 41° at Haparanda, 43° at Paris, 44° at Bodø and Sumburgh Head, and 46° at Harisand, York, Munich, and Lyons.

## WIND

Light from NW. or N. in the east of Scotland and north east of England; strong from the same quarters on the eastern shores of the North Sea.  
E or NE elsewhere; light or moderate in force generally, but fresh in the Bay of Biscay and at the mouth of the Channel.

## WEATHER

Fair generally but dull in places, with fog or mist in many parts of our Islands.  
[Slight rain fell yesterday in the extreme north, and thunder was heard at Wick.]

## SEA

Rather rough at Hawke Point, moderate to smooth elsewhere.

## PROBABLE CHANGES IN SYSTEM NOW PREVALENT

The large area of low pressure noticed yesterday over the north of Scandinavia, and the subsidiary depression over the south of Sweden have both moved away to the eastward, and the barometer has risen at all but the Baltic stations.

A well defined anticyclone still lies over the greater part of the United Kingdom, and there is no sign of any important change in the weather.

## FORECASTS

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

### DISTRICTS.

### FORECASTS.

0	SCOTLAND NORTH	N. winds, light or moderate; fair generally but perhaps local showers.
1	SCOTLAND EAST	-----D°-----D°-----D°-----
2	ENGLAND N.E.	-----D°-----D°-----D°-----
3	ENGLAND EAST	Same as N°5
4	MIDLAND COUNTIES	Same as N°5
5	ENGLAND SOUTH	NE winds, light or moderate; fair generally.



### DISTRICTS.

### FORECASTS.

6	SCOTLAND WEST	Calms or variable airs; fair generally.
7	ENGLAND N.W.	Light breezes, chiefly E <sup>1</sup> / <sub>2</sub> ; fine generally.
8	ENGLAND S.W.	E <sup>1</sup> / <sub>2</sub> and NE <sup>1</sup> / <sub>2</sub> winds, fresh; fair generally.
9	IRELAND NORTH	Same as N°7
10	IRELAND SOUTH	Same as N°7.

### WARNINGS

NONE ISSUED.

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



# YESTERDAY'S 2 P.M. REPORTS.

	Bar.	Dry.	Wet.	Wind.	Wes.	Sea.		Bar.	Dry.	Wet.	Wind.	Wes.	Sea.
Skudesnaes ...	30.48	55	53	NW 4	0	3	Holyhead ...	30.33	58	52	NW 1	cmv	1
Sumburgh Head ...	30.47	53	53	NW 1	m	2	Valencia ...	30.31	60	55	E 1	om	1
Stornoway ...	30.35	56	56	W 3	0	2	Scilly ...	30.22	60	55	E.N.E. 4	bv	4
Aberdeen ...	30.33	61	55	NW 1	b	0	Dungeness ...	30.27	62	58	E 5	b	0
Shields ...	30.33	56	51	N.E. 1	0	2	London ...	30.30	63	54	E 3	c	3
Ardrossan ...	30.45	58	55	W 1	b	0	Yarmouth ...	30.32	58	54	N.E. 3	bv	3
Malin Head ...	30.35	56	54	N.E. 2	0	0	Jersey ...	30.20	63	55	N.E. 5	b	4
Mullaghmore ...	30.36	58	53	N.E. 3	om	2	Rochefort ...	30.08	65	69	E 4	b	2
Belmullet ...	30.35	60	55	E.N.E. 1	0	*							

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

The reports for yesterday morning showed that pressure was highest, 30.3 ins: and upwards, in a large anticyclone lying over the British Islands, and lowest, 29.7 ins: and less, in three depressions lying respectively over the north of Scandinavia, the south of France and the south-west of Spain. Over Northern Europe the wind was chiefly W<sup>ly</sup> (NW to SW), but over the more central countries it drew into the N<sup>th</sup>, while in France, Spain, and the south of our Islands it was NE<sup>ly</sup>. Rain was falling in the west of Norway and also over southern Russia, but elsewhere the weather was fair or fine. Temperature had risen a few degrees over our Islands and Scandinavia but elsewhere the change were rather irregular; readings ranged from 70° and upwards over Algeria, Southern Italy, and some parts of Spain to 40° or less over Northern Russia and also over Central Germany. The highest individual readings were 78° at Malta, 73° at Oran and La Calle, 72° at Chindiri and Cagliari, and 71° at Oporto; the lowest were 39° at Archangel, Kuopio, and Munich, 41° at Helsingfors, 42° at Clermont, 43° at Paris and Casel, and 44° at Le Mans, Wiesbaden, and Carlsruhe.

In the course of the day very little change occurred in the distribution of pressure but temperature over England rose to a somewhat higher level than of late. In London the thermometer reached a maximum of 66°.

### 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 24<sup>th</sup> Sept

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 ..	30.26	42	N	4	b	30.22	+ .49	37	36	—	4	N	4	b	*	52	36	—
Hernösand ..	30.25	46	NNW	8	b	30.23	+ .43	41	37	—	5	N	6	b	*	55	?	—
Stockholm ..	29.98	46	NW	6	b	29.90	+ .04	48	45	—	2	N	8	o	*	61	43	0.35
Wisby ..	29.96	50	N	8	b	29.71	— .15	49	47	—	2	NE	4	r	*	56	41	0.08
Bodö ..	30.32	43	NW	2	o	30.24	+ .10	42	41	—	2	SSW	2	o	1	46	39	0.08
Christiansund ..	30.45	46	NNE	1	b	30.43	+ .21	45	43	—	1	S	1	c	4	48	41	0.20
Skudesnaes ..	30.36	49	NNW	6	b	30.36	+ .11	48	43	—	0	NNW	2	b	3	54	48	—
Christiania Fjord (Perder)	30.22	54	N	5	b	30.21	+ .17	48	42	—	6	N	5	b	2	57	48	—
Skagen (The Scaw)	30.19	54	NE	7	b	30.18	+ .19	49	44	—	8	NE	7	b	5	57	46	—
Faenø ..	30.25	48	NW	4	b	30.27	+ .11	48	43	—	8	N	3	b	*	57	42	—
BRITISH ISLANDS.																		
Sumburgh Head	30.52	46	Z	0	c	30.57	+ .07	48	44	+	4	Z	0	b	0	51	34	—
Stornoway ..	30.51	53	E	2	o	30.51	+ .05	47	47	—	8	Z	0	ow	2	55	40	—
Wick ..	30.56	45	NW	1	b	30.52	+ .05	49	47	—	1	S	2	b	0	53	36	—
Nairn ..	30.52	51	Z	0	b	30.53	+ .07	50	48	—	2	Z	0	o	1	55	48	—
Aberdeen ..	30.55	50	NNE	3	c	30.55	+ .10	45	43	—	10	Z	0	bw	0	55	35	—
Leith ..	30.52	56	SE	1	o	30.55	+ .08	50	48	—	1	SE	1	o	*	66	48	—
Shields ..	30.50	54	NE	1	o	30.53	+ .07	50	47	—	1	NW	1	c	4	59	45	—
Spurn Head ..	30.45	55	N	4	c	30.48	+ .05	52	48	—	1	NNE	5	c	4	57	49	—
York ..	30.48	57	N	1	o	30.54	+ .08	48	45	+	2	NNW	1	b	*	60	43	—
Loughborough	30.48	56	NE	1	o	30.52	+ .07	50	47	+	1	NNW	3	bm	*	62	47	—
Ardrossan ..	30.49	56	Z	0	b	30.54	+ .07	52	51	+	2	N	1	bm	0	63	50	—
Malin Head ..	30.47	54	E	2	b	30.52	+ .07	52	52	—	0	SSW	2	bm	1	58	50	—
Mullaghmore ..	30.46	59	ENE	2	b	30.53	+ .07	48	47	—	3	ENE	2	bm	2	62	44	—
Belinullet ..	30.47	57	ENE	1	o	30.52	+ .07	50	49	—	0	ESE	1	b	*	62	47	—
Donaghadee ..	30.50	56	S	1	b	30.56	+ .08	51	51	+	4	W	2	c	0	59	42	—
SCOTLAND.																		
Barrow-in-Furness	30.48	58	NE	2	b	30.52	+ .07	52	51	+	1	NE	1	o	*	62	54	—
Liverpool (Bidston)	30.48	56	E	2	b	30.54	+ .08	52	49	+	3	E	1	of	1	61	49	—
Holyhead ..	30.44	57	ENE	4	c	30.53	+ .09	52	51	—	1	Z	0	cm	0	61	48	—
Parsonstown ..	30.45	60	Z	0	o	30.56	+ .13	39	38	—	9	Z	0	b	*	64	37	—
Valencia ..	30.43	60	NW	1	c	30.50	+ .10	54	52	+	1	NE	1	bm	1	66	47	—
IRELAND.																		
Roche's Point...	30.43	54	ESE	1	c	30.48	+ .09	57	55	+	2	ESE	4	cm	4	62	49	—
Pembroke ..	30.42	56	ESE	3	m	30.50	+ .11	53	51	+	1	ENE	2	m	1	60	49	—
Scilly ..	30.34	68	E	5	b	30.41	+ .11	50	54	—	0	ENE	4	o	4	61	54	—
Prawle Point ..	30.38	67	ENE	6	b	30.41	+ .05	58	55	+	2	ENE	6	b	6	61	53	—
Jersey ..	30.44	59	ENE	4	b	30.39	+ .08	57	55	—	2	NE	2	cm	2	65	52	—
ENGLAND.																		
Hurst Castle ..	30.40	58	ENE	4	c	30.46	+ .06	54	52	+	4	NE	4	cm	1	61	49	—
Dungeness ..	30.39	58	E	5	b	30.40	+ .05	53	50	—	1	NE	4	b	*	60	47	—
London ..	30.44	58	NE	2	o	30.47	+ .06	51	48	—	1	NNE	2	o	*	61	57	—
Oxford ..	30.48	55	NE	2	o	30.50	+ .06	53	47	+	4	NNE	3	b	*	58	49	—
Cambridge ..	30.45	57	NE	1	o	30.48	+ .05	49	47	—	2	NE	1	o	*	62	46	—
WALES.																		
Yarmouth ..	30.43	57	N	3	c	30.43	+ .03	53	49	—	3	NNE	4	c	4	60	50	—
GERMANY.																		
Cuxhaven ..	30.23	49	NNW	5	o	30.25	— .03	51	47	—	7	NNE	5	b	*	42	49	—
Berlin ..	30.10	50	NW	3	o	30.26	— .06	47	44	—	6	NW	4	b	*	63	43	—
Wiesbaden ..	*	*	*	*	*	30.29	— .03	51	48	—	0	N	2	c	*	57	50	—
Munich ..	30.22	45	W	1	b	30.21	— .07	46	46	—	0	NW	4	r	*	59	42	0.04
FRANCE & NETHERLANDS.																		
The Helder ..	30.35	56	N	3	c	30.24	+ .01	54	48	—	2	N	3	c	2	59	52	—
Brussels ..	*	*	*	*	*	30.38	+ .02	51	47	—	0	NNE	3	o	*	57	51	0.04
Cape Gris Nez...	30.39	56	ENE	7	b	30.36	+ .02	55	50	+	3	NNE	7	o	5	61	50	—
Paris ..	30.24	56	NNE	3	b	30.32	+ .08	49	48	+	6	N	1	o	*	66	?	—
Brest ..	30.26	66	E	4	b	30.30	?	57	50	+	2	NE	5	o	3	?	46	—
PORTUGAL.																		
Lorient ..	30.22	66	E	4	b	30.33	+ .14	50	48	—	2	ENE	5	b	3	70	50	—
Rocheport ..	30.21	68	E	5	b	30.28	+ .11	52	50	—	2	ENE	7	b	2	74	48	—
Belfort ..	?	58	NE	1	b	30.25	00	50	47	—	1	NE	1	f	*	64	41	—
Lyons ..	30.24	59	NNW	1	b	30.25	+ .02	46	43	—	0	NNW	3	b	*	68	44	—
Nice ..	30.08	64	WSW	1	o	30.24	— .10	64	60	+	2	Z	0	o	2	70	63	—
SPAIN.																		
Perpignan ..	30.15	63	Z	0	b	30.10	— .05	54	53	+	1	E	1	b	*	74	50	—
Biarritz ..	30.08	54	ENE	3	b	30.10	+ .02	63	59	—	1	?	3	b	0	73	59	—
PORTUGAL.																		
Corunna ..	*	*	*	*	*	30.10	+ .07	?	?	—	?	NE	1	b	2	77	44	—
Lisbon ..	30.03	67	NW	4	c	30.01	+ .03	63	62	+	1	NNE	5	o	2	75	?	0.04

For Explanation of Columns, see p. 4.



# WEATHER CHARTS

for 8 a.m. on Saturday 24<sup>th</sup> September 1887.

## BAROMETER, WIND & SEA.

(Explanation of Map)

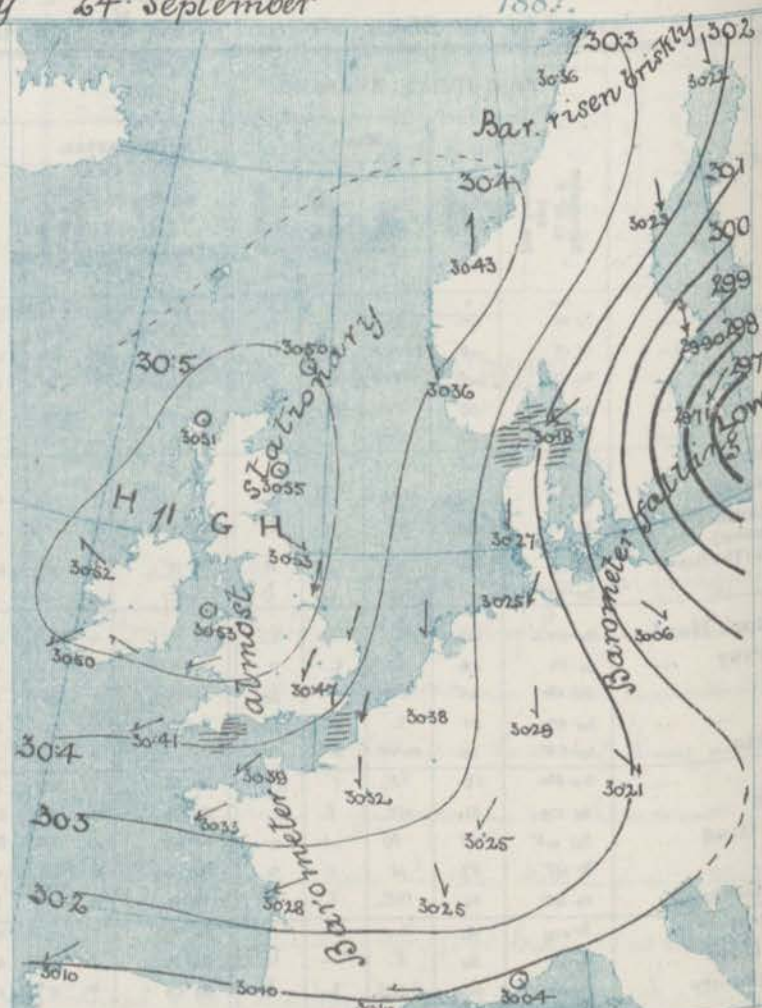
**Barometer** — Isobars are drawn for each tenth of an inch. Changes since previous morning are stated in words.  
**Wind** — Arrows show the prevalent winds. They fly with the wind and their barbs and feathers refer to force, thus —  
 — force above 10 — force 8 to 10 — force 5 to 7 — force 1 to 4 —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

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

## MEAN HEIGHT of the BAROMETER

at 8 a.m. for the month of September.  
 During the 10 years 1871—1880.

STATIONS.	MEAN READING.
	in.
Sumburgh Head	29.758
Stornoway	29.781
Wick	29.786
Nairn	29.812
Aberdeen	29.815
Leith	29.851
Shields	29.876
York	29.913
Ardrossan	29.858
Donaghadee	29.875
Holyhead	29.908
Liverpool	29.910
Valencia	29.929
Roche's Point	29.923
Pembroke	29.924
Scilly	29.960
Hurst Castle	29.978
Dover	29.965
LONDON	29.956
Oxford	29.943
Cambridge	29.943
Yarmouth	29.928



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

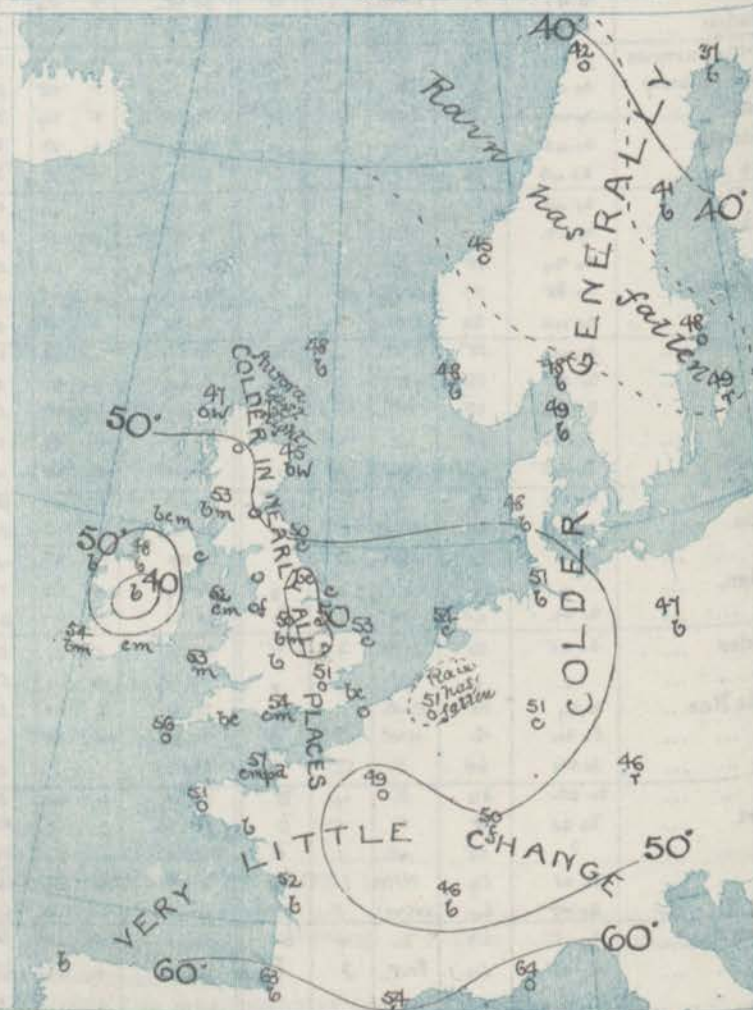
**Temperature** — Isotherms are drawn for each 10° changes since previous morning are stated in words.  
**Weather** — is shown by letters of the Beaufort Scale.  
**Rainfall** — A dotted line separates the districts in which rain has fallen from those where there has been none. Falls of 0.5 in. or more,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

## MEANS OF TEMPERATURE IN SHADE. AND RAINFALL.

for the month of September

STATIONS.	TEMPERATURE				RAINFALL (Inches)
	Daily Max.	Daily Min.	At 8 a.m.	At 8 p.m.	
Sumburgh Head	55.2	46.2	50.8	49.0	3.46
Stornoway	55.9	45.4	51.0	49.7	4.13
Wick	57.5	45.8	51.6	49.7	2.66
Nairn	59.0	47.0	51.3	48.8	2.78
Aberdeen	55.0	47.1	52.0	49.6	3.22
Leith	52.7	47.8	53.6	51.1	2.47
Shields	50.0	49.0	53.4	51.2	3.58
York	52.2	47.8	53.1	51.2	2.98
Ardrossan	49.9	49.9	53.6	51.0	3.57
Donaghadee	50.5	49.2	53.8	52.1	3.23
Holyhead	51.1	53.1	55.8	53.4	3.35
Liverpool	51.3	51.2	54.7	52.0	3.56
Valencia	51.9	52.0	58.4	53.9	4.87
Roche's Point	52.0	51.7	55.4	53.2	4.82
Pembroke	50.4	55.4	56.3	53.0	3.99
Scilly	51.9	55.2	58.5	50.5	3.09
Hurst Castle	54.4	52.9	57.8	56.8	3.35
Dover	53.1	52.3	53.3	55.4	2.86
LONDON	50.9	49.3	56.4	54.0	3.59
Oxford	55.8	49.0	54.2	52.4	2.91
Cambridge	55.8	48.5	54.5	52.0	3.48
Yarmouth	52.8	50.8	56.3	55.4	3.17

Note — The Temperature means are for the 7 years 1871—80, the Rainfall means are mainly those for the 10 years 1868—85.





# GENERAL SITUATION AT 8 A.M.

## PRESSURE

Highest, 30.5 mm. and more, over Ireland, Scotland and north of England.  
 Lowest, 29.7 mm. at Kristy, 30.0 mm. at Lisbon and over the Gulf of Genoa.  
 Gradients - very slight in our islands, moderate in France, rather steep over the South of Sweden. Barometer falling decidedly over Denmark.

## TEMPERATURE

Highest, 64° at Nice, 63° at Lisbon and Biarritz, 58° at Prawle Point.  
 Lowest, 37° at Haparanda, 39° at Posenstown, 42° at Bodo, 46° at Munich, 49° at Paris, the Scaw and Kristy.  
 It has fallen decidedly since yesterday in Scotland, Germany and on the eastern shores of the North Sea.

## WIND

Fresh to strong from N.W. in Sweden and Denmark - moderate to fresh from N.E. in the Channel, on our southeastern coasts, and over the Bay of Biscay - moderate N.W. over Germany.  
 Variable airs and calms prevail in Ireland, Scotland and the north of England.

## WEATHER

Clear and bright in Ireland, many parts of France and also over Denmark and the south of Norway.  
 Cloudy and dull in the east & southeast, and at Stockholm, rainy at Kristy, rather showery at Jersey.  
 Rain fell yesterday in small quantities at all the Norwegian stations and in Holland, and in considerable quantities at Kristy during the night.

## SEA

Rather rough in the Channel, moderate on our east coast & at Christiansund, slight or smooth elsewhere.

## PROBABLE CHANGES IN SYSTEM NOW PREVALENT

The depression which has appeared over the western part of the Belge this morning appears to be moving slowly to the westward or southward. If this (somewhat unusual) movement should continue, strong N. winds and cold rains are likely to set in over the North Sea, and east of England during the coming 24 hours. The western and northwestern parts of our Islands, however, are not likely to be affected at present.

## FORECASTS

For the 24 hours ending at NOON on 25<sup>th</sup> September 1887.

### DISTRICTS.

### FORECASTS.

0	SCOTLAND NORTH	N <sup>th</sup> winds, freshening; fair to rainy, cold.
1	SCOTLAND EAST	.....D.....D.....D.....
2	ENGLAND N.E.	.....D.....D.....D.....
3	ENGLAND EAST	N <sup>th</sup> and NW winds, fresh to strong; fair to squally and showery.
4	MIDLAND COUNTIES	Same as N <sup>o</sup> 0 to 2.
5	ENGLAND SOUTH	Wind backing to N. or NW; fair to unsettled and rainy. Cold.

### DISTRICTS.

### FORECASTS.

6	SCOTLAND WEST	Very light winds; weather fair.
7	ENGLAND N.W.	.....D.....D.....D.....
8	ENGLAND S.W.	N <sup>th</sup> winds, light to moderate; fine.
9	IRELAND NORTH	Very light winds, and fine weather.
10	IRELAND SOUTH	.....D.....D.....D.....

### WARNINGS

NONE ISSUED AT PRESENT.

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 ...	30.28	54	46	NNW	6	bc	3	Holyhead ...	30.42	60	59	ENE	3	bcm	2
Sumburgh Head ...	30.49	48	42	NNE	1	c	2	Valencia ...	30.40	66	59	SW	1	bcm	1
Stornoway ...	30.49	55	54	E	2	0	2	Scilly ...	30.32	60	55	E	5	bc	4
Aberdeen ...	30.50	55	51	NNE	2	0	1	Dungeness ...	30.39	60	57	E	5	0	4
Shields ...	30.47	58	54	NE	1	0	2	London ...	30.42	59	54	N	2	0	*
Ardrossan ...	30.48	60	55	L	0	b	0	Yarmouth ...	30.43	59	56	NNE	3	bc	3
Malin Head ...	30.46	57	56	NE	2	0	0	Jersey ...	30.32	65	57	ENE	5	b	4
Mullaghmore ...	30.45	61	56	NE	2	cm	2	Rocheport ...	30.19	80	68	ENE	4	b	2
Belmullet ...	30.44	63	56	ESE	2	bc	*								

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

Yesterday morning's reports showed that pressure then varied from between 30.4 ins. and 30.5 ins. over the greater part of the British Isles, and from about 30.0 ins. over the south of Portugal on the one hand, to about 29.7 ins. over Lapland and the north of Russia, and to below 29.5 ins. and 29.6 ins. over Central Russia, where a depression of no great depth had appeared during the previous twenty-four hours. Fresh NW<sup>ly</sup> winds were felt on the eastern shores of the North Sea, and lighter breezes from the same quarter over Germany and Hungary, but over France and the British Isles the wind was NE<sup>ly</sup>—moderate to fresh over the more southern parts of that area, and light in the north and west. Temperature varied from between 70° and 77° over the southern parts of the Mediterranean, and from between 50° and 60° over the British Isles and Central Russia to between 40° and 45° over the central parts of France and Germany, as well as over Western Russia, and about 40° over Northern Russia, Finland, and Lapland. The highest individual values were 77° at Algiers and Bilbao, 74° at Palermo, 71° at Barcelona, and 70° at Sanguinaria and Malta; the lowest 40° at Archangel, 41° at Haparanda, 43° at St. Petersburg, and Paris, 44° at Riga and Lumburgh Head, 46° at Lyons, Munich and York, and 48° at Portsmouth.

Later in the day the Russian depression seems to have moved westwards and grown deeper, and is probably identical with the disturbance shown near Vistula in this morning'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 25<sup>th</sup> Sept

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 ..	Ins.	35	N	2	b	29.78	— .44	34	33	— 3	N	2	b	*	48	34	—		
Hernösand ..	30.04	44	N	4	b	29.84	— .39	41	40	— 0	WNW	2	b	*	55	39	—		
Stockholm ..	29.87	45	NNE	9	r	29.75	— .15	45	41	— 3	N	4	m	*	50	43	—		
Wishy ..	29.67	46	NE	9	r	29.63	— .08	45	45	— 4	NNE	8	r	*	50	41	0.59		
Bodo ..	30.09	45	SW	4	r	29.77	— .57	43	41	— 1	ESE	2	r	1	46	?	0.35		
Christiansund...	30.26	44	SW	1	b	29.97	— .46	49	48	— 4	SSW	1	r	5	?	41	0.04		
Skudesnaes ..	30.22	49	NNW	5	b	30.06	— .30	50	46	— 2	NNW	4	c	3	54	48	—		
Christiania Fjord (Ferdar)	30.08	53	NNE	4	b	29.97	— .24	47	42	— 1	NNW	2	b	1	54	46	—		
Skagen (The Scaw)	30.03	50	NE	6	b	29.95	— .23	48	44	— 1	NE	2	b	2	54	46	—		
Fand ..	30.12	47	NNW	6	b	30.01	— .26	54	51	— 6	NNW	4	b	*	57	45	—		
BRITISH ISLANDS.																			
Sumburgh Head	30.38	49	WNW	1	o	30.10	— .40	51	51	— 3	WNW	1	o	1	52	44	0.02		
Stornoway ..	30.43	54	Z	0	o	30.17	— .34	52	51	— 5	S	1	o	2	56	45	—		
Wick ..	30.40	50	Z	0	o	30.18	— .34	48	48	— 1	Z	0	o	0	52	42	—		
Nairn ..	30.41	56	Z	0	c	30.21	— .32	52	50	— 2	Z	0	o	1	59	50	—		
Aberdeen...	30.44	50	Z	0	c	30.21	— .34	53	51	— 8	Z	0	bc	0	58	44	—		
Leith ..	30.43	54	SSE	1	m	30.22	— .33	54	52	— 4	W	1	om	*	57	47	—		
Shields ..	30.45	50	NE	1	bc	30.24	— .29	51	50	— 1	W	1	op	3	54	42	—		
Spurn Head ..	30.41	50	N	4	c	30.28	— .10	49	47	— 3	WNW	3	cm	3	53	45	—		
York ..	30.47	51	N	1	b	30.31	— .23	45	44	— 3	SSW	1	f	*	59	38	—		
Loughborough	30.47	51	ENE	1	bc	30.31	— .21	43	42	— 7	Z	0	of	*	57	35	—		
Ardrossan ..	30.44	56	S	2	bc	30.24	— .30	55	53	— 2	WNW	2	o	1	62	52	—		
Malin Head ..	30.44	56	Z	0	cm	30.26	— .26	54	54	— 2	WNW	2	o	1	61	52	—		
Mullaghmore ..	30.47	56	WSW	2	bc	30.31	— .22	55	54	— 7	WSW	4	cm	2	63	48	—		
Belmullet ..	30.50	57	W	1	o	30.32	— .20	57	55	— 7	WSW	2	o	*	62	50	—		
Donaghadee ..	30.46	55	W	2	c	30.29	— .27	54	52	— 3	SW	2	o	0	59	50	—		
GERMANY.																			
Barrow-in-Furness	30.44	56	NW	2	bc	30.26	— .26	52	52	— 0	NNW	1	of	*	62	49	—		
Liverpool (Bidston)	30.46	54	WNW	1	b	30.30	— .24	55	52	— 3	WSW	1	o	3	58	50	—		
Holyhead ..	30.47	56	NNW	2	bc	30.31	— .22	55	54	— 3	W	3	mur	2	61	50	—		
Parsonstown ..	30.49	60	Z	0	c	30.37	— .19	54	52	— 15	Z	0	o	*	56	38	—		
Valencia ..	30.49	59	SSE	1	cm	30.41	— .09	55	54	— 1	Z	0	bc	0	64	48	—		
Roche's Point...	30.50	57	ESE	1	bc	30.37	— .11	53	51	— 4	NNW	3	b	3	62	50	—		
Pembroke ..	30.45	57	NE	2	m	30.36	— .14	50	50	— 3	NE	1	f	0	60	49	—		
Seilly ..	30.41	57	ENE	2	bc	30.35	— .06	55	53	— 1	Z	0	m	2	60	51	—		
Prawle Point ..	30.42	54	ENE	5	bc	30.36	— .05	50	46	— 8	N	2	bc	1	62	41	—		
Jersey ..	30.37	56	NE	3	cm	30.33	— .06	55	49	— 2	NE	3	cm	3	60	53	—		
Hurst Castle ..	30.43	53	NE	4	c	30.25	— .11	45	43	— 9	NNE	2	bc	1	58	38	—		
Dungeness ..	30.38	54	NE	5	c	30.30	— .10	49	46	— 4	NE	4	c	3	56	48	—		
London ..	30.43	52	NNE	3	o	30.34	— .13	43	40	— 8	NE	1	bc	*	54	37	—		
Oxford ..	30.46	49	NE	2	o	30.34	— .16	41	40	— 12	W	2	og	*	55	36	—		
Cambridge ..	30.44	50	NE	1	o	30.31	— .17	45	43	— 4	SW	1	bc	*	54	35	—		
Yarmouth ..	30.39	53	N	4	c	30.26	— .17	50	47	— 3	NW	3	bc	3	58	46	—		
Cuxhaven ..	30.20	49	NNE	5	b	30.03	— .17	54	51	— 3	N	5	b	*	54	49	—		
Berlin ..	29.99	48	NW	6	o	29.95	— .11	44	42	— 3	WNW	3	c	*	50	43	0.08		
Wiesbaden ..	*	*	*	*	*	30.22	— .07	51	48	— 0	NW	1	o	*	57	43	—		
Munich ..	30.22	46	NNW	2	c	30.19	— .02	42	39	— 5	NW	2	bc	*	52	37	—		
FRANCE & NETHERLANDS.																			
The Helder ..	30.29	54	N	4	c	30.17	— .17	53	49	— 1	NNW	3	c	2	?	52	—		
Brussels ..	*	*	*	*	*	30.25	— .13	51	48	— 0	NW	1	o	*	45	50	—		
Cape Gris Nez...	?	54	NE	7	o	30.20	— .06	62	49	— 3	N	5	o	4	57	30	—		
Paris ..	30.32	51	NNE	3	o	30.27	— .05	48	47	— 1	N	1	o	*	57	42	—		
Brest ..	30.20	59	NE	5	o	30.32	?	52	50	— 1	NE	3	o	3	?	46	—		
Lorient ..	30.29	59	ENE	5	b	30.29	— .04	60	46	— 10	E	5	o	2	64	48	—		
Rochefort ..	30.19	62	NE	7	b	30.19	— .09	47	44	— 5	NNE	7	b	2	70	43	—		
Beifort ..	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*		
Lyons ..	30.15	52	N	4	b	30.15	— .10	41	39	— 5	NNW	3	b	*	62	38	—		
Nice ..	29.43	64	Z	0	bc	29.95	— .09	62	59	— 2	Z	0	bc	1	72	55	—		
Perpignan ..	30.46	62	NNE	3	b	30.00	— .10	55	53	— 1	Z	0	o	*	75	53	—		
Biarritz ..	30.05	66	NNE	1	b	30.09	— .01	52	48	— 11	E	4	b	1	73	50	—		
Corunna ..	*	*	*	*	*	30.08	— .02	63	60	— ?	NNE	8	bc	5	77	50	—		
Lisbon ..	30.00	66	SW	4	bc	29.99	— .02	61	61	— 2	N	3	m	2	72	57	—		

For Explanation of Columns, see p. 4.



# WEATHER CHARTS

for 8 a.m. on

Sunday 25<sup>th</sup> September

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.

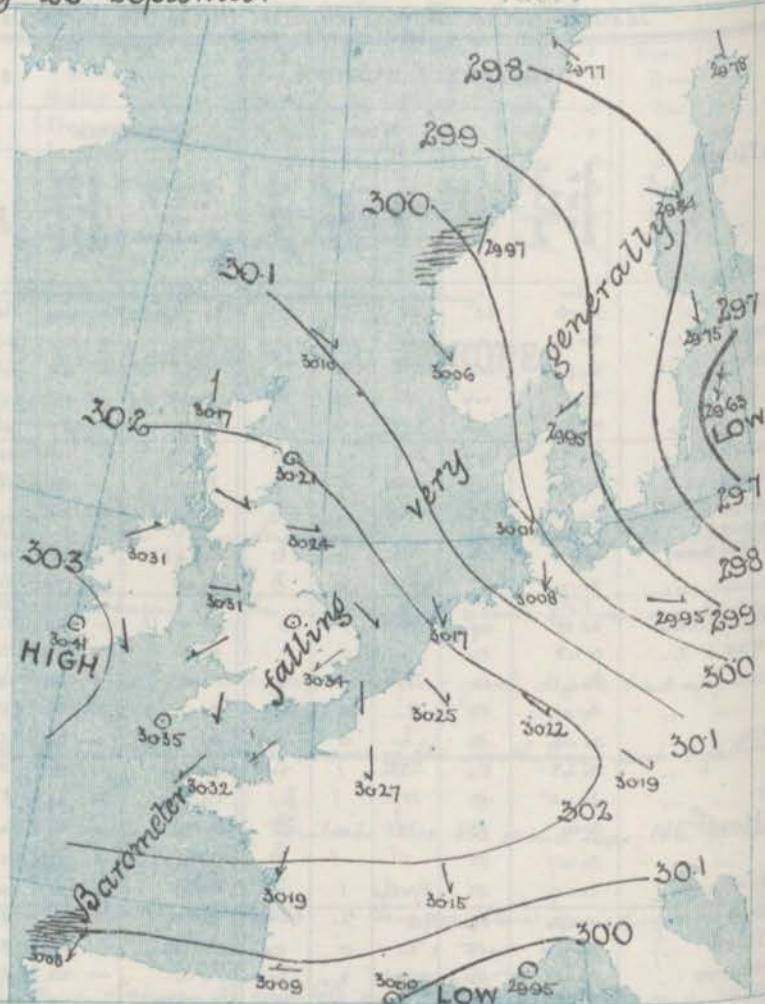
**Sea Disturbance** — where considerable is shown thus

— Rough. — High.

## MEAN HEIGHT of the BAROMETER

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

STATIONS.	MEAN READINGS
	in.
Sumburgh Head	29.758
Stornoway	29.781
Wick	29.780
Nairn	29.812
Aberdeen	29.816
Leith	29.851
Shields	29.876
York	29.913
Ardrossan	29.888
Donaghadee	29.875
Holyhead	29.903
Liverpool	29.910
Valencia	29.929
Roche's Point	29.923
Pembroke	29.934
Scilly	29.960
Hurst Castle	29.978
Dover	29.955
LONDON	29.956
Oxford	29.948
Cambridge	29.943
Yarmouth	29.928





# GENERAL SITUATION AT 8 A.M.

## PRESSURE

Highest, 30.3 in. to 30.4 in. over Ireland and the southwestern half of England.  
Lowest, 30.0 in. and less, over the southern half of Spain, 29.9 in. over the Gulf of Bothnia, 29.6 in. at Wisby.  
Gradients slight in our Islands, moderate in the east and north-east. Barometer falling generally - quickly in the NW and N.

## TEMPERATURE

Highest, 63° at Corunna, 62° at Ales, 61 at Lisbon, 57° at Belmullet, 55° at Valencia and Sicily.  
Lowest, 34° at Haparanda, 41° at Herisand and Oxford, 43° at Loughborough, in London, and at Munich.  
It has been very low over England during the night (froty on the ground) but was rising quickly at 8 am.

## WIND

Strong from N. over the Baltic, moderate from NW and N. over the North Sea.  
Moderate NW in Germany, and NE in the Channel and west of France.  
Over the United Kingdom it was chiefly W and light, but was S at Stornoway and Christiansund.

## WEATHER

Very dull in the north, with rain at Christiansund and Skudermoen. Elsewhere it is finer, but very distinct solar halos are reported at Cambridge and in London, where the Cirrus moves fast from NE.

## SEA

Very little disturbed except at Skudermoen, where it is rather rough.

## PROBABLE CHANGES IN SYSTEM NOW PREVALENT

The rain at Wisby is evidently due to the depression which lay over the Baltic yesterday, while that in the west of Norway seems to be due to some new depression, which, though at a great distance now, seems to be approaching Scotland and Norway from the NW - and causing the sharp fall of the barometer now in progress at our northern stations and the backing W. wind.

## FORECASTS

For the 24 hours ending at NOON on 26<sup>th</sup> Sept 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 ...	30.30	54	46	NW	6	b	3	Holyhead ...	30.50	59	50	NNW	1	bm	1
Sumburgh Head ...	30.43	50	46	Z	0	be	0	Valencia ...	30.49	64	50	ESE	2	bm	3
Stornoway ...	30.47	50	55	Z	0	0	2	Scilly ...	30.42	60	54	E	4	c	4
Aberdeen ...	30.48	50	48	SE	2	b	0	Dungeness ...	30.40	56	53	NE	4	be	2
Shields ...	30.49	52	47	NNE	2	b	3	London ...	30.45	58	48	NE	2	0	4
Ardrossan ...	30.48	50	56	Z	0	b	0	Yarmouth ...	30.41	54	50	N	4	c	4
Malin Head ...	30.48	59	57	NW	2	b	1	Jersey ...	30.29	58	52	NE	5	0	4
Mullaghmore ...	30.50	60	56	W	1	bm	1	Rocheport ...	31.21	63	61	ENE	7	b	2
Belmullet ...	30.50	61	57	WSW	1	b	*								

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

*The Continental Information will appear in Tuesday'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.

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# DAILY WEATHER REPORT.

for Monday 26<sup>th</sup> September

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 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 ..	29.72	34	25	0	b	29.78	00	40	36	+ 6	SE	2	bc	*	46	28	-	
Hernösand ...	29.75	46	Z	0	o	29.72	-12	48	46	+ 7	SE	2	o	+	55	37	-	
Stockholm ...	29.79	42	Z	0	c	29.73	-02	45	43	0	Z	0	c	*	48	39	-	
Wisby ...	29.76	45	N	4	b	29.69	+06	47	45	+ 2	NE	2	o	*	48	43	0.04	
Bodo ...	29.69	45	Z	0	T	29.47	-30	51	48	+ 8	ESE	2	o	1	?	41	0.12	
Christiansund...	29.74	51	SW	2	o	29.43	-34	49	48	0	ESE	1	T	3	52	46	0.12	
Skudesnaes ...	29.87	53	WNW	1	o	29.55	-51	52	51	+ 2	SSE	6	T	4	55	50	-	
Christiania Fjord (Pierder)	29.82	55	WSW	2	b	29.61	-36	54	50	+ 7	SW	5	bc	3	55	?	-	
Skagen (The Scaw)	29.82	48	Z	0	b	29.68	-27	51	49	+ 3	W	1	o	1	54	46	-	
Fanö ...	29.92	52	WNW	4	c	29.75	-26	52	52	- 2	SSW	4	o	*	57	50	-	
BRITISH ISLANDS.																		
Sumburgh Head	29.81	52	SW	3	o	29.42	-68	50	49	- 1	W	1	b	2	56	46	0.14	
Stornoway ...	29.81	54	SW	6	fm	29.52	-65	49	49	- 3	W	2	bc	3	56	45	0.16	
Wick ...	29.77	53	S	2	o	29.48	-70	50	48	+ 2	HW	3	bc	1	58	46	0.07	
Nairn ...	29.86	56	W	3	o	29.55	-66	50	48	- 2	Z	0	bc	1	58	49	0.15	
Aberdeen ...	29.92	54	SSW	2	og	29.52	-69	52	51	- 1	HW	4	T	1	59	51	0.11	
Leith ...	29.99	55	W	2	o	29.53	-69	56	55	+ 2	W	4	T	*	58	53	0.04	
Shields ...	30.04	56	W	1	o	29.62	-62	56	53	+ 5	SW	4	o	3	58	50	-	
Spurn Head ...	30.06	56	W	3	c	29.77	-51	54	52	+ 5	SSW	4	om	3	57	47	-	
York ...	30.08	56	W	2	o	29.74	-57	53	50	+ 8	SSW	4	o	*	60	45	-	
Loughborough	30.13	57	WSW	1	o	29.89	-48	54	51	+ 11	WSW	3	o	*	63	43	-	
Ardrossan ...	30.00	56	SW	2	om	29.59	-65	53	52	- 2	WNW	5	T	4	56	52	0.16	
Malin Head ...	29.99	55	W	4	odu	29.65	-61	51	50	- 3	HW	3	bc/p	3	57	46	0.30	
Mullaghmore ...	30.09	57	WSW	5	om	29.72	-59	54	51	- 1	WNW	5	c	4	59	52	0.34	
Belmullet ...	30.11	56	W	4	o	29.78	-54	53	51	- 4	HW	3	c	*	58	52	0.28	
Donaghadee ...	30.07	57	WSW	2	c	29.62	-67	56	55	+ 2	WSW	4	T	2	58	50	0.03	
Barrow-in-Furness	29.98	56	WSW	3	o	29.70	-56	56	54	+ 4	SW	6	o	*	57	52	0.01	
Liverpool (Bidston)	30.12	54	W	3	o	29.75	-55	54	52	- 1	WSW	3	o	3	57	53	-	
Holyhead ...	30.16	58	WSW	2	cm	29.75	-56	55	54	0	WSW	5	rgm	4	61	54	0.01	
Parsonstown ...	30.17	56	SW	1	o	29.79	-58	55	54	+ 1	WSW	1	o	*	61	53	0.06	
Valencia ...	30.22	58	W	1	om	29.89	-52	55	54	0	WNW	3	om	2	63	54	0.12	
Roche's Point...	30.19	60	HW	2	bc	29.84	-53	56	54	+ 3	WSW	4	c	3	63	52	-	
Pembroke ...	30.19	57	W	3	c	29.87	-49	57	56	+ 7	WSW	5	ogm	4	59	50	-	
Seilly ...	30.23	59	WNW	2	o	29.94	-36	58	54	+ 3	WSW	4	o	4	61	54	-	
Prawle Point ...	30.20	54	W	2	bc	29.97	-39	56	54	+ 6	WSW	4	o	3	58	48	-	
Jersey ...	30.21	55	WNW	3	b	29.97	-36	58	55	+ 3	WNW	2	om	2	58	43	-	
Hurst Castle ...	30.18	57	WSW	3	c	29.94	-41	58	56	+ 13	W	3	mg	2	59	43	-	
Dungeness ...	30.17	54	WSW	3	bc	29.92	-38	56	55	+ 7	WNW	5	m	3	59	48	-	
London ...	30.15	58	W	1	bcm	29.90	-44	56	53	+ 13	WSW	3	o	*	62	50	-	
Oxford ...	30.11	54	WNW	1	c	29.88	-46	54	52	+ 13	SW	3	og	*	62	41	-	
Cambridge ...	30.12	57	W	1	o	29.85	-46	55	52	+ 10	SW	1	o	*	65	43	-	
Yarmouth ...	30.13	58	W	1	b	29.84	-42	54	52	+ 4	WSW	4	cm	3	60	48	-	
Cuxhaven ...	30.02	50	WNW	3	o	29.90	-18	52	51	- 2	SW	3	T	*	54	50	0.10	
Berlin ...	29.94	50	W	2	b	29.91	-04	47	46	+ 3	WNW	2	o	*	59	?	-	
Wiesbaden ...	*	*	*	*	*	30.04	-18	50	48	- 1	Z	0	o	*	54	46	-	
Munich ...	30.14	42	Z	0	b	30.05	-14	37	36	- 4	N	1	m	*	52	?	-	
GERMANY.																		
The Helder ...	30.08	54	W	1	c	29.83	-34	57	55	+ 4	WSW	1	f	2	57	?	-	
Brussels ...	*	*	*	*	*	29.99	-26	48	44	- 9	SW	4	om	*	?	45	-	
Cape Gris Nez...	30.16	57	SW	1	b	29.92	-38	58	57	+ 6	SW	7	o	5	59	50	-	
Paris ...	30.18	51	N	1	o	30.07	-20	38	38	- 10	Z	0	f	*	56	36	-	
Brest ...	30.23	55	ESE	3	o	30.06	-26	51	49	- 1	Z	0	o	1	?	46	-	
Lorient ...	30.19	58	ESE	5	b	30.10	-19	50	47	- 10	NE	3	b	2	?	48	-	
Rockfort ...	30.12	60	NE	7	b	30.07	-12	46	45	- 1	NE	7	b	2	70	43	-	
Belfort ...	30.12	55	N	4	b	30.02	-49	49	45		N	4	b	*	58	33	-	
Lyons ...	30.10	53	N	1	b	30.06	-09	41	40	0	SE	1	b	*	60	39	-	
Nice ...	29.88	61	Z	0	c	29.86	-09	62	59	0	E	1	b	2	72	55	-	
Perpignan ...	29.92	66	HW	4	o	29.94	-06	53	51	- 2	HW	3	b	*	70	51	-	
Biarritz ...	30.04	58	W	4	bc	30.00	-09	56	54	+ 4	NE	3	b	2	64	52	-	
Corunna ...	*	*	*	*	*	30.03	-05	60	55	- 3	NE	1	b	5	66	52	-	
Lisbon ...	29.94	65	WNW	5	b	29.95	-04	62	60	+ 1	N	4	b	2	73	61	0.08	
PENIN. ISL.																		

For Explanation of Columns, see p. 4.



# WEATHER CHARTS

for 8 a.m. on Monday, 26<sup>th</sup> September.

1887.

## BAROMETER, WIND & SEA.

(Explanation of Map)

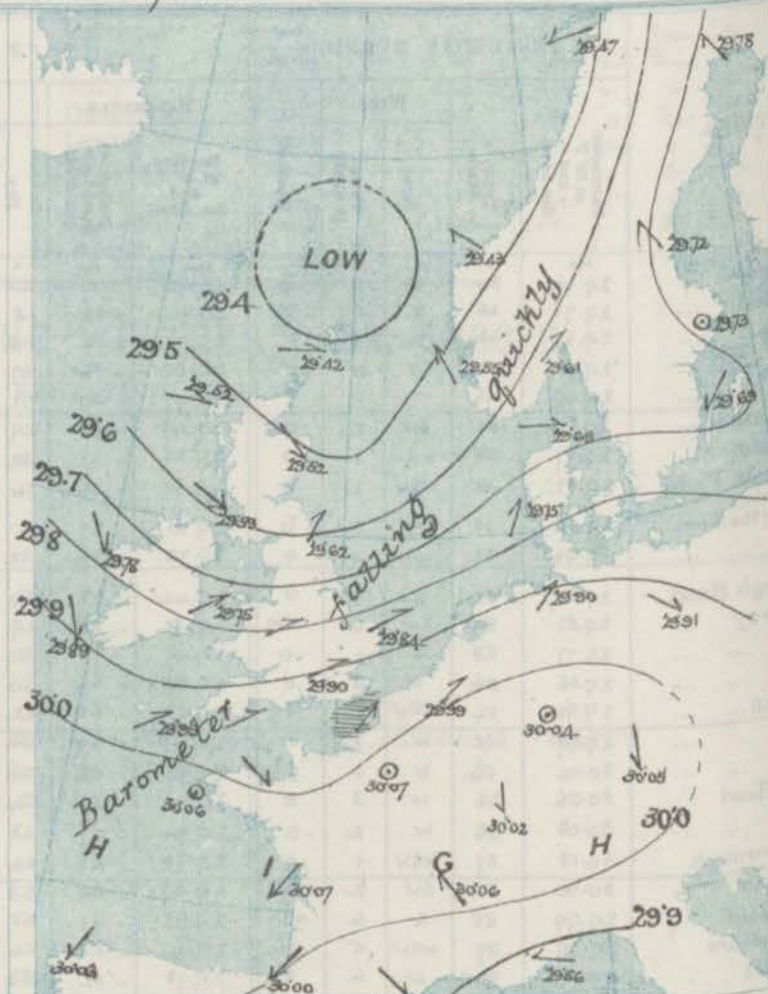
**Barometer** — Isobars are drawn for each tenth of an inch. Changes since previous morning are stated in words.  
**Wind** — Arrows show the prevalent winds. They fly with the wind and their barbs and feathers refer to force, thus —  
 — force above 10; — force 8 to 10;  
 — force 5 to 7; — force 1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

STATIONS.	MEAN READINGS.
	in.
Sumburgh Head	29.758
Stornoway	29.761
Wick	29.780
Nairn	29.812
Aberdeen	29.815
Leith	29.851
Shields	29.876
York	29.913
Ardrossan	29.858
Doughhead	29.875
Holyhead	29.903
Liverpool	29.910
Valencia	29.929
Roche's Point	29.923
Pembroke	29.924
Selly	29.900
Hurst Castle	29.978
Dover	29.955
LONDON	29.956
Oxford	29.943
Cambridge	29.943
Yarmouth	29.928



## 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 September.

STATIONS	TEMPERATURE				RAINFALL (Inches)
	Daily Max.	Daily Min.	Avg. & M.	Wet.	
Sumburgh Head	55.2	45.2	50.6	40.0	3.48
Stornoway	55.9	45.4	51.0	40.7	4.13
Wick	57.5	45.3	51.6	40.7	2.66
Nairn	59.0	47.0	51.8	48.8	2.73
Aberdeen	58.0	47.1	52.0	40.6	3.22
Leith	62.7	47.8	58.6	51.1	2.47
Shields	60.0	49.0	58.4	51.2	2.58
York	63.2	47.8	53.1	51.2	2.98
Ardrossan	59.2	49.9	53.6	51.0	3.87
Doughhead	59.5	49.2	53.3	51.1	3.22
Holyhead	61.1	53.1	55.6	53.4	3.35
Liverpool	61.3	51.2	54.7	52.0	3.56
Valencia	61.9	52.0	56.4	53.9	4.87
Roche's Point	62.0	51.7	55.4	53.2	4.29
Pembroke	60.4	53.4	56.8	53.9	3.89
Selly	61.9	55.2	58.5	56.5	3.89
Hurst Castle	64.4	52.9	57.8	56.3	3.35
Dover	63.1	52.8	55.8	55.4	2.86
LONDON	66.9	49.3	56.4	54.0	2.59
Oxford	63.8	49.0	54.2	52.4	2.91
Cambridge	65.8	48.5	54.5	52.9	2.48
Yarmouth	62.8	50.8	56.8	54.4	3.17

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 in: and more, over the Bay of Biscay, 30.0 in: and more over Central France and the west of Germany.  
Lowest, 29.4 in: and less, in a depression lying to the westward of Norway and northward of the Shetlands.  
Gradients moderate. Barometer falling generally and decidedly.

## TEMPERATURE

Highest, 62° at Nice, and Lisbon, 60° at Concarneau, 58° at most of the Channel stations.  
Lowest, 37° at Munich, 38° at Paris, 41° at Lyons - 40° at Haparanda, 45° at Stockholm.  
It is higher over England and lower in Scotland than it was yesterday morning; the decrease in Scotland is apparently spreading South.

## WIND

Moderate from NW. in Scotland and the west of Ireland.  
W. and SW. over England and the Channel - S. in Denmark, and SE. to E. over Norway and Sweden -  
NE. over Bay of Biscay and Portugal.

## WEATHER

Somewhat unsettled. Clear in north of Scotland, south of France and Peninsula; cloudy or overcast elsewhere, rainy in the north of England, with the south and east of Scotland, the west of Norway and Copenhagen. Foggy in Paris.  
[Rain has fallen generally in the north and northwest - most in the north of Ireland.]

## SEA

Moderate in the west and northwest, slight or smooth elsewhere - but rather rough on the French side of the Straits of Dover.

## PROBABLE CHANGES IN SYSTEM NOW PREVALENT

It is probable that during the day the rainy weather now prevalent in the north will spread to our southern counties and be followed by a fall of temperature and W. to NW. winds.

As the depression in the north has spread out quickly, and thus become shallower than was anticipated the signals hoisted in the north-west, north and northwest last night have been lowered this morning.

## FORECASTS

For the 24 hours ending at NOON on 27<sup>th</sup> Sept. 1887.

### DISTRICTS.

### FORECASTS.

0	SCOTLAND NORTH	NW. and W. winds, moderate, changeable, some showers;
1	SCOTLAND EAST	-----D°-----D°-----D°-----
2	ENGLAND N.E.	Similar to No 5;
3	ENGLAND EAST	Similar to No 5
4	MIDLAND COUNTIES	Similar to No 5
5	ENGLAND SOUTH	SW. to NW. breezes, moderate or fresh; dull, rain at times. Colder.

### DISTRICTS.

### FORECASTS.

6	SCOTLAND WEST	Same as No 0
7	ENGLAND N.W.	Same as No 5
8	ENGLAND S.W.	Same as No 5
9	IRELAND NORTH	NW. winds, moderate or fresh; cloudy, some rain, colder.
10	IRELAND SOUTH	-----D°-----D°-----D°-----

### WARNINGS

The signals hoisted in districts 0 to 2 with 6, 7, and 9 last evening have been lowered again this morning.

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



# YESTERDAY'S 2 P.M. REPORTS.

	Bar.	Dry.	Wet.	Wind.	Wes.	Sea.		Bar.	Dry.	Wet.	Wind.	Wes.	Sea.
Skudesnaes ...	29.98	55	52	NW 5	0	3	Holyhead ...	30.22	58	55	WSW 3	0	2
Gumburgh Head ...							Valencia ...						
Stornoway ...	29.94	56	55	W 4	0 NW	4	Scilly ...						
Aberdeen ...							Dungeness ...	30.25	56	53	WSW 3	6	3
Shields ...							London ...						
Ardrossan ...							Yarmouth ...						
Malin Head ...	30.11	57	56	W 3	0	2	Jersey ...	30.26	58	52	NNE 3	6	3
Mullaghmore ...							Rochefort ...	30.15	67	57	NNE 8	6	3
Belmullet ...	30.21	58	53	WSW 2	0	*							

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

The reports for yesterday morning showed that pressure then varied from between 30.3 mm. and 30.4 mm. over the western and southern parts of the British Islands to between 29.8 mm. and 29.9 mm. over the Mediterranean and to about 29.3 mm. in a depression, the centre of which lay near Riga. The barometer was falling generally, especially in the north of the British Islands. Thus while N<sup>4</sup> breezes of considerable strength prevailed over the Baltic, NE<sup>4</sup> and to some extent of little strength were reported over the British Islands, and NE<sup>4</sup> in the Channel and France and the northern part of the Mediterranean. Cloudy rainy weather was reported over the Baltic and some parts of Scandinavia, as well as at several of the Mediterranean stations, but fairer weather in the British Islands (where however solar halos were observed) and fine bright weather over the greater part of France. Temperature had been very low over England during the night, but was beginning to rise quickly as the day advanced; it varied from a little above 45° over the southern part of the Mediterranean to between 55° & 62° over the greater part of the British Islands to less than 40° over Finland & Northern Russia. The highest individual readings were 76° at Oran (Algiers) & Malta, 72° at Cagliari, 70° at Brindisi, 68° at Tangier, 62° at Nice & 61° at Ansette; the lowest 34° at Haparanda, 35° at Klenborg, 39° at Stockholm, 40° at Helsingfors and at Oxford, and 43° at Loughborough and in London.

During the day temperature rose greatly over England - where the daily maxima varied from 60° to 65°. The barometer continued to fall faster in the north and the general appearance became very unsettled.

### SUMMARY OF CHANGES IN THE WEATHER OVER THE BRITISH ISLANDS AND THEIR NEIGHBOURHOOD FROM THE 18<sup>TH</sup> TO THE 24<sup>TH</sup> SEPTEMBER 1887.

Throughout the week now under notice the distribution of pressure over the British Islands has been anticyclonic, and the type of gradient N<sup>4</sup>, so that N<sup>4</sup> (NW to NE) breezes have been prevalent, - light in force at the northern and western stations, moderate to fresh in the southeast and south. The weather has been dry generally over the United Kingdom, but more or less showery to the eastward of the North Sea, and though considerable amounts of cloud and haze have been observed inland the sky has been comparatively clear at the coast stations, and the sea very little disturbed except in the Channel.

A large and somewhat deep depression passed outside our extreme northern coasts during the earlier part of the week. Its central part arrived over Lapland and Finland on Monday, and moving in a southeasterly direction reached the Baltic and Northern Russia on the following day, producing N<sup>4</sup> gales and rain over Scandinavia and Denmark, but not affecting the winds or weather on our coast much. This had passed away on the 21<sup>st</sup> and although a second low-pressure system appeared over the Mediterranean on Wednesday it disappeared quickly without apparently affecting the weather on our own coasts.

At the close of the week a third depression had advanced to the western part of the Baltic from Central Russia and the barometer began to fall at our eastern stations, but the system was still too far distant to disturb the weather over the British Islands in any important degree.

#### 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 27<sup>th</sup> September

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	29.84	48	SE	0	C	29.92	+1.14	44	43	+1	ESE	2	bc	*	48	?	-	
Hernösand	29.72	46	S	2	O	29.76	+0.04	49	47	+1	SE	2	O	*	52	43	-	
Stockholm	29.70	43	SE	0	C	29.70	-0.03	45	44	0	E	2	f	*	55	39	-	
Wisby	29.68	47	NE	2	C	29.63	-0.06	50	48	+3	ESE	4	O	*	52	41	-	
Bodo	29.47	54	SE	4	O	29.67	+2.0	51	48	0	E	8	O	4	54	48	-	
Christiansund	29.30	51	WNW	1	O	29.31	-12	50	49	+1	ESE	1	C	3	52	?	0.04	
Skudesnaes	29.34	52	SW	2	C	29.27	-2.8	51	50	-1	S	1	T	3	54	!	-	
Christiania Fjord (Færder)	29.48	54	SSW	4	T	29.40	-2.1	54	53	0	SSW	5	T	3	54	52	0.35	
Skagen (The Scaw)	29.49	53	SSW	3	O	29.39	-2.9	54	54	+3	E	3	O	2	54	50	0.08	
Faro	29.62	55	SW	2	O	29.41	-3.4	54	54	+2	SW	3	T	*	59	52	0.27	
BRITISH ISLANDS.																		
Sumburgh Head	29.28	49	W	1	C	29.15	-2.7	47	45	-3	SW	2	C	2	54	43	0.08	
Stornoway	29.35	49	W	4	bc	29.13	-2.9	43	43	-6	W	3	bc	3	55	39	0.25	
Wick	29.31	50	NW	2	bc	29.13	-3.5	45	43	-5	NW	2	b	0	55	40	-	
Nairn	29.40	51	W	2	C	29.18	-3.7	44	42	-6	SSW	1	bc	1	58	40	0.01	
Aberdeen	29.41	52	SSW	3	b	29.23	-2.9	47	44	-5	SW	2	bc	1	60	37	-	
Leith	29.48	51	SW	2	b	29.27	-2.6	47	44	-9	SW	2	b	*	62	44	0.02	
Shields	29.51	53	W	2	bc	29.34	-2.8	44	42	-12	SW	1	mw	2	59	43	0.03	
Spurn Head	29.54	57	SW	4	bc	29.40	-3.7	49	47	-5	WNW	3	bc	2	58	46	-	
York	29.56	56	W	1	C	29.38	-3.6	48	47	-5	SW	1	bc	*	61	45	0.01	
Loughborough	29.63	54	WNW	2	O	29.46	-3.7	47	46	-7	W	1	bc	*	58	40	0.05	
Ardrossan	29.52	54	W	4	O	29.26	-3.3	47	46	-6	SW	3	cp	3	59	45	0.16	
Malin Head	29.52	53	NW	3	cp	29.25	-4.0	46	43	-5	NW	3	cp	3	57	44	0.18	
Mullaghmore	29.61	52	WNW	5	bc	29.34	-3.8	47	44	-7	WNW	6	cp	5	58	42	0.50	
Belmullet	29.67	53	W	3	bc	29.40	-3.8	48	43	-5	NW	5	C	*	56	44	0.19	
Donaghadee	29.58	53	W	3	C	29.33	-2.9	45	43	-11	W	5	C	3	59	42	0.07	
Barrow-in-Furness	29.57	55	NW	3	b	29.36	-3.4	50	46	-6	WNW	3	C	*	58	49	0.10	
Liverpool (Bidston)	29.61	53	W	3	C	29.39	-3.6	48	46	-6	SW	3	C	3	59	45	0.94	
Holyhead	29.64	52	WSW	3	bc	29.41	-3.4	54	48	-1	W	4	b	4	59	48	0.05	
Parsonstown	29.69	53	SE	0	bc	29.43	-3.6	45	44	-10	SE	0	C	*	59	43	0.03	
Valencia	29.78	55	WNW	2	bc	29.55	-3.4	51	47	-4	NW	5	cp	6	62	48	0.11	
Roche's Point	29.73	55	WNW	3	b	29.53	-3.1	49	47	-7	W	2	O	3	60	47	-	
Pembroke	29.67	56	W	4	b	29.49	-3.8	53	51	-4	WNW	5	bc	3	57	52	0.11	
Seilly	29.76	56	WNW	4	cp	29.57	-4.2	54	52	-4	NW	5	cp	5	61	51	0.23	
Prawle Point	29.73	55	SW	6	O	29.54	-4.3	54	52	-2	W	3	bc	2	57	47	0.19	
Jersey	29.83	59	W	3	og	29.57	-4.0	56	50	-2	NW	4	bc	3	62	52	0.12	
Hurst Castle	29.72	57	W	6	gd	29.50	-4.4	52	51	-6	NW	4	C	3	60	49	0.37	
Dungeness	29.73	57	W	5	T	29.47	-4.5	56	54	0	NW	4	C	3	62	51	0.40	
London	29.68	56	WNW	2	O	29.49	-4.1	50	48	-6	WNW	2	b	*	59	48	0.17	
Oxford	29.63	52	W	1	T	29.47	-4.1	49	48	-5	W	2	b	*	57	45	0.16	
Cambridge	29.65	56	SW	2	T	29.45	-4.0	50	50	-5	SW	1	b	*	60	45	0.28	
Yarmouth	29.60	56	SW	2	O	29.44	-4.0	50	49	-4	WNW	1	bc	2	58	46	0.02	
Cuxhaven	29.73	50	SW	3	O	29.55	-3.5	53	52	+1	SSW	3	O	*	53	50	-	
Berlin	29.80	52	SW	2	O	29.69	-2.2	45	43	-2	SE	0	b	*	57	43	-	
Wiesbaden	*	*	*	*	*	29.70	-3.4	40	39	-10	SE	0	b	*	57	34	-	
Munich	29.89	44	NE	1	b	29.74	-3.1	39	38	+2	SE	0	b	*	55	?	-	
FRANCE & NETHERLANDS.																		
The Helder	29.65	57	SW	3	O	29.40	-4.3	55	54	-2	SSW	1	T	1	59	55	0.43	
Brussels	*	*	*	*	*	29.54	-4.5	54	51	+6	S	5	O	*	57	52	-	
Cape Gris Nez	29.73	58	WSW	7	T	29.48	-4.4	55	54	-3	WNW	7	C	5	61	52	0.43	
Paris	29.85	54	SW	1	bc	29.63	-4.4	50	48	+12	SSW	1	T	*	64	?	0.04	
Brust	29.88	57	WNW	5	O	29.68	-3.8	54	50	+3	NW	4	C	3	73	46	0.12	
Lorient	29.91	58	W	8	O	29.65	-4.5	54	53	+4	WNW	5	bc	4	61	46	0.28	
Rochefort	29.95	59	NW	1	O	29.75	-3.2	59	56	+13	SW	4	C	2	70	54	-	
Belfort	29.86	55	SW	1	b	29.71	-3.1	45	43	-4	SW	1	b	*	60	41	-	
Lyons	29.87	53	NE	1	b	29.75	-3.1	42	41	+1	W	1	bc	*	62	36	-	
Nice	29.78	64	SSW	1	O	29.65	-2.3	60	51	-2	E	1	b	2	73	55	-	
Perpignan	29.83	67	NW	3	b	29.76	-1.8	56	51	+3	W	3	O	*	76	50	-	
Biarritz	29.95	61	WNW	4	C	29.80	-2.0	57	52	+1	SW	5	O	2	64	55	-	
Corunna	*	*	*	*	*	29.94	-0.4	61	57	-1	WNW	4	bc	3	75	59	-	
Lisbon	29.94	64	WNW	7	bc	29.99	+0.04	61	57	-1	WNW	4	bc	3	75	59	-	

For Explanation of Columns, see p. 4.



# WEATHER CHARTS

for 8 a.m. on Tuesday, 27<sup>th</sup> September. 1887.

## BAROMETER, WIND & SEA.

(Explanation of Map)

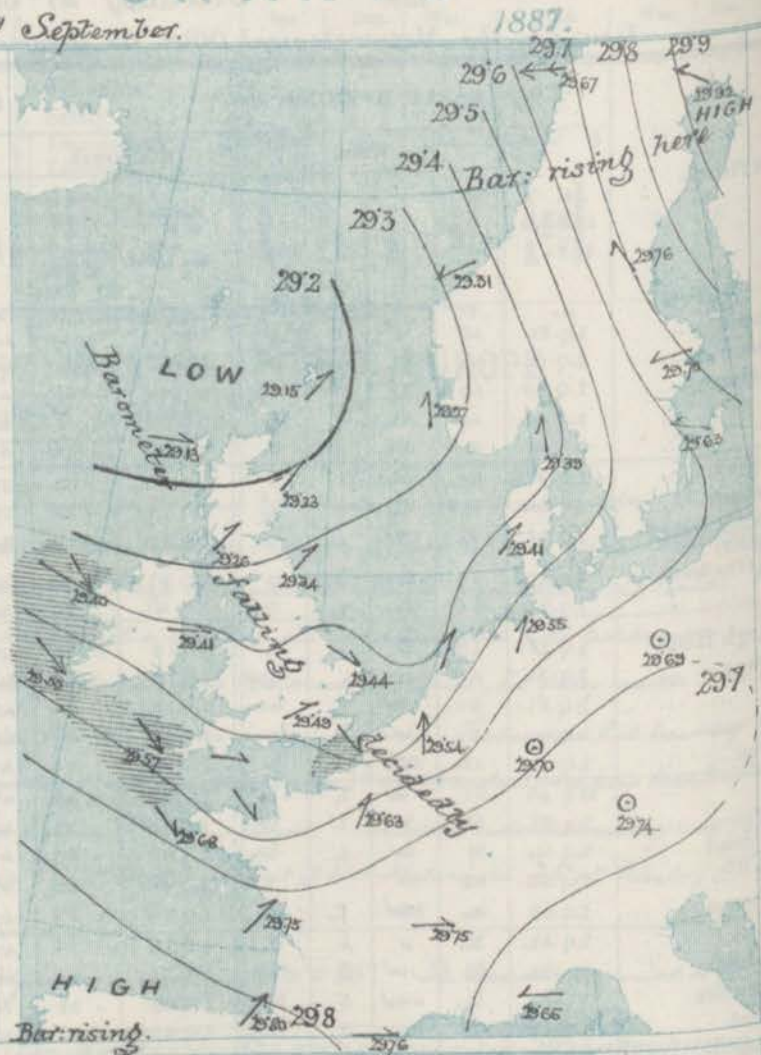
**Barometer** — Isobars are drawn for each tenth of an inch. Changes since previous morning are stated in words.  
**Wind** — Arrows show the prevalent winds. They fly with the wind and their barbs and feathers refer to force, thus —  
 — force above 10; — force 8 to 10;  
 — force 5 to 7; — force 1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

STATIONS.	MEAN READING.
	in.
Sumburgh Head.	29.758
Stornoway.	29.781
Wick.	29.788
Nairn.	29.812
Aberdeen.	29.816
Leith.	29.851
Shields.	29.876
York.	29.913
Ardrossan.	29.858
Donaghadee.	29.875
Holyhead.	29.903
Liverpool.	29.910
Valencia.	29.929
Roche's Point.	29.923
Pembroke.	29.924
Selly.	29.960
Hurst Castle.	29.978
Dover.	29.955
LONDON.	29.956
Oxford.	29.948
Cambridge.	29.943
Yarmouth.	29.928



## 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 September

STATIONS	TEMPERATURE.				RAINFALL (Inches)
	Daily Max.	Daily Min.	A.S. & M. Dry.	A.S. & M. Wet.	
Sumburgh Head.	65.2	46.2	50.6	49.0	3.46
Stornoway.	55.9	45.4	51.0	49.7	4.18
Wick.	57.5	45.8	51.6	49.7	2.06
Nairn.	59.0	47.0	51.3	49.8	2.73
Aberdeen.	58.0	47.1	52.0	49.6	3.22
Leith.	62.7	47.8	53.5	51.1	2.47
Shields.	60.0	49.0	53.4	51.2	2.58
York.	63.2	47.3	53.1	51.2	2.98
Ardrossan.	59.0	49.9	53.6	51.0	3.57
Donaghadee.	59.5	49.2	53.3	52.1	3.22
Holyhead.	61.1	53.1	55.6	53.4	3.35
Liverpool.	61.3	51.2	54.7	52.0	3.56
Valencia.	61.9	52.0	56.4	53.9	4.87
Roche's Point.	62.0	51.7	55.4	53.2	4.39
Pembroke.	60.4	53.4	56.3	53.9	3.89
Selly.	61.9	55.2	58.5	56.5	3.09
Hurst Castle.	64.4	52.9	57.8	56.3	3.35
Dover.	63.1	52.8	58.3	55.4	2.86
LONDON.	66.9	49.3	56.4	54.0	2.50
Oxford.	63.8	49.0	54.2	52.4	2.91
Cambridge.	65.8	48.5	54.5	52.9	2.48
Yarmouth.	62.3	50.8	56.3	54.4	3.17

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, 29.99 in. at Liabon, 29.80 in. at Kiersey, 29.91 in. at Haparanda, 29.7 in. at Stockholm.  
Lowest, 29.13 at Stromway and Misk, 29.15 in. at Sumburg, Hadd, and 29.40 in. at the Helder.  
Gradients moderate for W. winds in our Islands, rather steep for SE and E over Scandinavia.  
Barometer falling markedly except over Scandinavia, where a rise has set in.

## TEMPERATURE

Highest, 61° at Liabon, 60° at Kiersey, 56° at Dungeness, 54° at the Scaw, and 51° at Bodø and Rudsmals.  
Lowest, 38° at Munich, 40° at Kristadon, 42° at Lyons, 43° at Stromway, 44° at Haparanda and Kinn, 45° at Berlin, Misk and Douglas.  
It has fallen decidedly over the British Isles since yesterday, but risen fast over Misk and Central France.

## WIND

Light to moderate SW<sup>ly</sup> to NW<sup>ly</sup> over the British Isles and France.  
Light S<sup>ly</sup> in Holland and Denmark — SE<sup>ly</sup> to E<sup>ly</sup> in Sweden and Norway.  
Dead calm at all the German stations.

## WEATHER

Fair but unsettled-looking in most parts of our Islands, where, however, showers have been general, and in several places heavy. Hail fell at Liverpool in the night.  
Over Scandinavia it is fair, and clear over Germany and the south east of France.

## SEA

Rough off our extreme western coasts, moderate in the Irish and English Channels, smooth in the East and north-east.

## PROBABLE CHANGES IN SYSTEM NOW PREVALENT

With the present distribution of pressure a continuation of changeable weather (occasional falls of rain with bright intervals) is probable in nearly all parts of the Kingdom.

## FORECASTS

For the 24 hours ending at NOON on 28<sup>th</sup> Sept

1887.

### DISTRICTS.

### FORECASTS.

0	SCOTLAND NORTH	SW <sup>ly</sup> breezes, moderate or light; showery.
1	SCOTLAND EAST	SW <sup>ly</sup> to NW <sup>ly</sup> breezes, light; some showers with bright intervals.
2	ENGLAND N.E.	— D° — — — D° — — — D° — — —
3	ENGLAND EAST	— D° — — — D° — — — D° — — —
4	MIDLAND COUNTIES	Same as N°5
5	ENGLAND SOUTH	Varying W <sup>ly</sup> (SW to NW) breezes; very changeable, rain at times.

### DISTRICTS.

### FORECASTS.

6	SCOTLAND WEST	SW <sup>ly</sup> to NW <sup>ly</sup> winds, moderate; showery.
7	ENGLAND N.W.	— D° — — — D° — — — D° — — —
8	ENGLAND S.W.	— D° — — — D° — — — D° — — —
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 ...	29.42	54	53	S 4	r }	3	Holyhead ...	29.69	58	54	WNW 4	6 0	4
Sumburgh Head ...	29.36	53	49	W 1	6	2	Valencia ...	29.84	58	54	NW 3	0	3
Stornoway ...	29.51	54	53	W 4	ep	4	Scilly ...	29.83	57	56	WNW 5	7	4
Aberdeen ...	29.47	58	52	NW 3	6	1	Dungeness ...	29.79	61	59	W 5	0	4
Shields ...	29.51	57	54	NW 2	0/p	3	London ...	29.76	59	55	SW 2	0	1
Ardrossan ...	29.57	58	53	WNW 5	0	4	Yarmouth ...	29.71	58	53	SW 2	0 m	3
Malin Head ...	29.58	54	50	WNW	6	3	Jersey ...	29.93	60	54	W 3	0	2
Mullaghmore ...	29.69	57	53	WNW 5	epv	4	Rochefort ...	30.01	65	56	W 4	6	
Belmullet ...	29.73	55	51	W 5	6	*							

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

The reports for yesterday morning showed that pressure was a little above 30.0 in. in a broad band, which extended from the Black Sea, across Southern and Central Europe to France, the Bay of Biscay, and the adjacent parts of the Atlantic. The barometer was falling everywhere, owing to the advance from the north-westward of a new and large (but not deep) depression, the centre of which lay off the west of Norway. The system was accompanied by several very shallow subsidaries, which subsequently travelled eastward across the United Kingdom. The depression noticed over the Baltic Provinces on the previous two days, still lay in that region, but was falling up. Westerly (S. to N.W.) breezes prevailed over the whole of Northwestern Europe, with changeable showery weather at the more northern stations, and cloudy to clear weather elsewhere, while over Southern Europe and the Peninsula the wind was mostly N.E., and the weather fine. Temperature (which had risen quickly over England, but fallen over France and Scotland) varied from between 75° & 77° over the Southern part of the Mediterranean, and from a little above 60° in the south of France to between 50° & 58° over the British Islands & to a little above 40° over Northern Europe. The highest individual values were 77° at Spas (Algeria) and Malta, 70° at Brindisi and Cagliari, 66° at Langunair, 62° at Nice and 58° at several of the English Channel stations; the lowest were 40° at Haparanda, 41° at Moscow and 44° at Archangel and Klenborg.

Later in the day showery weather became very general over the British Islands, the rain being heavy in some places, after which the wind veered to N.W. and temperature fell.

## REMARKS FOR THE 24 HOURS ENDING 25<sup>th</sup> SEPTEMBER 1887.

Yesterday morning's reports showed that pressure varied from 30.5 in. and more in an anticyclone, which at that time lay over Ireland, Scotland and the north of England, to between 29.3 and 29.4 in. over the Baltic Provinces of Russia (to which region the depression noticed on Friday over Central Russia had moved) and to very little above 30.0 in. over the southern part of the Spanish Peninsula & the Mediterranean. Thus while N.E. winds, strong to a gale in force, had set in over the Baltic, accompanied by dull rainy unsettled weather, moderate N. breezes still held over the North Sea, and N.E. winds & fine weather over France & the Channel, while at our northwestern & northern stations variable air & calms were reported. Temperature had begun to give way quickly at the Baltic station, and (owing to great nocturnal radiation) had decreased greatly over Central Ireland also, while in England & the north of France the change was of the opposite character. The morning values ranged from 73° and 74° over the southern part of the Mediterranean and from between 50° and 57° over the greater part of the British Islands, to less than 40° on the northern coast of the Gulf of Bothnia. The highest individual values were 79° at Spas and Annaba (Algeria), 74° at Malta, Palma and Barcelona, and 70° at Brindisi; the lowest 36° at Klenborg, 37° at Haparanda and 39° at Pansamons.

Later on the sky cleared over England and at night the thermometer fell fast, so that a decided frost occurred on the grass at the inland stations, while in the far north temperature began to rise.

## 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 28<sup>th</sup> September 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.			BAROMETER.		SHADE TEMP.			WIND.			Sun. (0 to 9.)	Weather.	SHADE TEMP.		Amount of Rainfall.
			Dir.	Force. (0 to 12.)	Weather.	Reading at 32° F. and Sea Level.	Difference from 8 a.m. yesterday.	Dry.	Wet.	Difference from 8 a.m. yesterday.	Dir.	Force. (0 to 12.)	Weather.			Max.	Min.	
<b>SCANDINAVIA.</b>																		
Haparanda ..	Inc.	43	N	2	b	Inc.	Inc.	44	42	0	NE	2	b	*	*	50	27	—
Hernösand ...	29.97	40	Z	0	b	29.91	+ 0.9	44	42	—	E	2	b	*	*	55	37	—
Stockholm ...	29.86	46	E	2	b	29.93	+ 0.7	45	44	+ 4	E	2	b	*	*	52	37	—
Wisby ...	29.80	51	SE	4	o	29.84	+ 0.4	50	48	+ 5	E	2	b	*	*	55	43	—
Bodo ...	29.74	50	ESE	7	b	29.74	+ 0.1	53	50	+ 3	SSE	4	o	*	*	54	48	—
Christiansund...	29.75	53	E	1	bc	29.83	+ 0.8	51	49	0	ESE	4	bc	2	*	57	48	—
Skudesnaes ...	29.37	54	SSE	4	o	29.49	+ 0.12	52	50	+ 4	E	4	r	3	*	57	48	—
Christiania Fjord	29.36	58	SE	5	r	29.46	+ 0.10	52	50	+ 1	ESE	5	o	3	*	55	54	0.83
(Farder)	29.46	55	S	3	o	29.61	+ 0.15	52	52	0	S	4	c	2	*	55	52	0.16
Skagen (The Scaw)	29.45	55	S	3	o	29.54	+ 0.09	52	52	— 3	SE	4	c	*	*	52	48	0.08
Fanø ...	29.42	42	S	6	c	29.41	0.00	52	50	— 3	SE	4	c	*	*	52	48	0.08
<b>BRITISH ISLANDS.</b>																		
Sumburgh Head	29.18	46	SSE	1	b	29.32	+ 0.17	49	48	+ 2	SE	2	c	2	*	53	39	0.16
Stornoway ...	29.14	45	W	3	bc	29.25	+ 0.12	43	43	0	NW	1	bc	2	*	50	36	0.10
Wick ...	29.17	42	SW	2	bc	29.29	+ 0.16	37	36	— 8	NW	2	b	0	*	53	29	0.02
Nairn ...	29.17	40	Z	0	b	29.27	+ 0.09	39	37	— 5	Z	0	b	1	*	54	32	0.01
Aberdeen ...	29.17	48	S	2	bc	29.29	+ 0.06	35	34	— 12	SW	1	b	0	*	55	30	—
Leith ...	29.24	50	W	2	b	29.27	0.00	44	43	— 3	W	1	cm	*	*	54	36	0.03
Shields ...	29.26	47	WSW	2	cm	29.28	— 0.02	39	37	— 5	NW	1	bc	2	*	54	35	0.14
Spurn Head ...	29.26	53	SE	2	bc	29.25	— 0.01	46	45	— 3	NW	3	bc	2	*	56	44	—
York ...	29.32	47	W	1	c	29.27	— 0.05	35	34	— 13	N	1	b	*	*	55	32	0.02
Loughborough	29.35	47	NNW	1	c	29.31	— 0.04	33	33	— 14	Z	0	bc	*	*	58	31	0.08
Ardrossan ...	29.25	49	W	2	op	29.26	0.00	45	43	— 2	NE	1	bc	1	*	53	39	0.12
Malin Head ...	29.22	48	NNW	4	op	29.27	+ 0.05	46	45	0	NW	3	cp	3	*	50	44	0.11
Mullaghmore ...	29.32	48	NNW	6	ch	29.30	— 0.02	45	43	— 2	SE	2	cp	5	*	53	44	0.31
Belmullet ...	29.36	51	NW	5	cp	29.35	— 0.01	44	42	— 4	NNW	1	c	*	*	52	40	0.34
Donaghadee ...	29.20	48	W	3	c	29.27	— 0.07	43	42	— 2	W	3	bc	1	*	55	38	—
<b>GERMANY.</b>																		
Barrow-in-Furness	29.29	49	NW	3	bc	29.28	— 0.01	42	41	— 8	NE	2	bc	*	*	53	41	0.12
Liverpool (Bidston)	29.32	47	W	2	bc	29.28	— 0.04	45	44	— 3	S	1	bc	2	*	54	43	0.09
Holyhead ...	29.32	50	NNW	5	bc	29.28	— 0.04	45	44	0	NNW	2	cp	2	*	56	45	0.01
Parsonstown ...	29.40	46	Z	0	b	29.36	— 0.04	39	38	— 6	Z	0	c	*	*	54	37	0.01
Valencia ...	29.50	49	NW	3	c	29.44	— 0.06	44	45	— 2	NW	3	c	3	*	56	46	0.24
Roche's Point...	29.45	50	NW	5	p	29.37	— 0.08	47	44	— 2	NW	4	bc	3	*	55	43	0.05
Pembroke ...	29.38	52	NW	4	bc	29.32	— 0.06	49	48	— 4	NW	4	bc	3	*	54	46	0.07
Seilly ...	29.45	53	NW	6	cp	29.35	— 0.10	49	49	— 2	NNW	6	c	6	*	56	46	0.23
Prawle Point ...	29.41	49	W	4	bc	29.33	— 0.08	46	46	— 6	NW	3	bc	2	*	57	41	0.11
Jersey ...	29.44	53	W	4	c	29.33	— 0.11	46	45	— 10	W	3	cm	3	*	61	45	0.28
Hurst Castle ...	29.38	49	N	2	p	29.30	— 0.08	45	45	— 7	ENE	1	bc	2	*	59	40	0.10
Dungeness ...	29.38	50	W	4	r	29.27	— 0.11	47	46	— 9	NW	2	c	1	*	61	47	0.14
London ...	29.35	50	NW	1	op	29.31	— 0.04	43	42	— 7	NNW	1	bc	*	*	61	41	0.04
Oxford ...	29.35	45	SSW	3	r	29.31	— 0.04	40	39	— 9	W	1	b	*	*	59	34	0.04
Cambridge ...	29.34	47	N	1	c	29.26	— 0.08	44	43	— 6	NW	1	bc	*	*	61	40	0.15
Yarmouth ...	29.36	52	SE	2	c	29.23	— 0.13	47	46	— 3	NNW	2	or	2	*	57	43	0.14
Cuxhaven ...	29.50	51	S	2	o	29.42	— 0.08	51	50	— 2	SE	3	c	*	*	58	50	0.11
Berlin ...	29.57	54	Z	0	b	29.50	— 0.07	50	46	+ 5	SE	3	o	*	*	61	46	—
Wiesbaden ...	*	*	*	*	*	29.48	— 0.09	49	47	+ 9	S	1	bc	*	*	57	43	—
Munich ...	29.57	49	SW	1	o	29.57	— 0.00	46	44	+ 7	SE	1	b	*	*	59	41	—
<b>FRANCE &amp; NETHERLANDS.</b>																		
The Helder ...	29.37	53	S	1	o	29.29	— 0.08	51	49	— 5	S	3	c	5	*	55	48	0.87
Brussels ...	*	*	*	*	*	29.34	— 0.03	49	48	— 5	S	3	o	*	*	58	46	0.47
Cape Gris Nez...	29.37	55	SW	5	c	29.27	— 0.10	49	47	— 6	W	5	c	4	*	59	46	0.95
Paris ...	29.47	51	SW	1	o	29.39	— 0.08	48	47	— 2	SW	3	o	*	*	59	46	0.32
Brest ...	29.57	55	NNW	5	o	29.40	— 0.17	50	48	— 4	NW	7	o	3	*	?	46	0.20
Lorient ...	29.58	57	NW	8	c	29.39	— 0.19	52	48	— 2	WSW	5	c	5	*	59	48	0.12
Rochefort ...	29.67	59	NNW	7	c	29.56	— 0.11	54	51	— 5	W	4	bc	2	*	66	50	0.16
Belfort ...	29.60	55	SW	1	c	29.55	— 0.05	53	50	+ 8	SW	1	bc	*	*	62	48	0.04
Lyons ...	29.61	53	ESE	1	bc	29.58	— 0.03	49	46	+ 7	S	3	c	*	*	63	42	—
Nice ...	29.54	65	S	1	c	29.61	— 0.07	57	50	— 3	NE	1	o	2	*	71	52	—
Perpignan ...	29.67	61	N	3	o	29.67	— 0.00	57	51	+ 1	W	3	bc	*	*	71	55	—
Biarritz ...	29.73	58	W	8	r	29.66	— 0.07	55	53	— 2	WSW	8	r	4	*	64	52	0.95
Corunna ...	*	*	*	*	*	30.05	+ 0.06	58	56	— 3	NNW	4	bc	2	*	68	55	0.04
Lisbon ...	30.02	62	NW	5	c													

For Explanation of Columns, see p. 4.



# WEATHER CHARTS

for 8 a.m. on WEDNESDAY 28<sup>th</sup> September, 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.

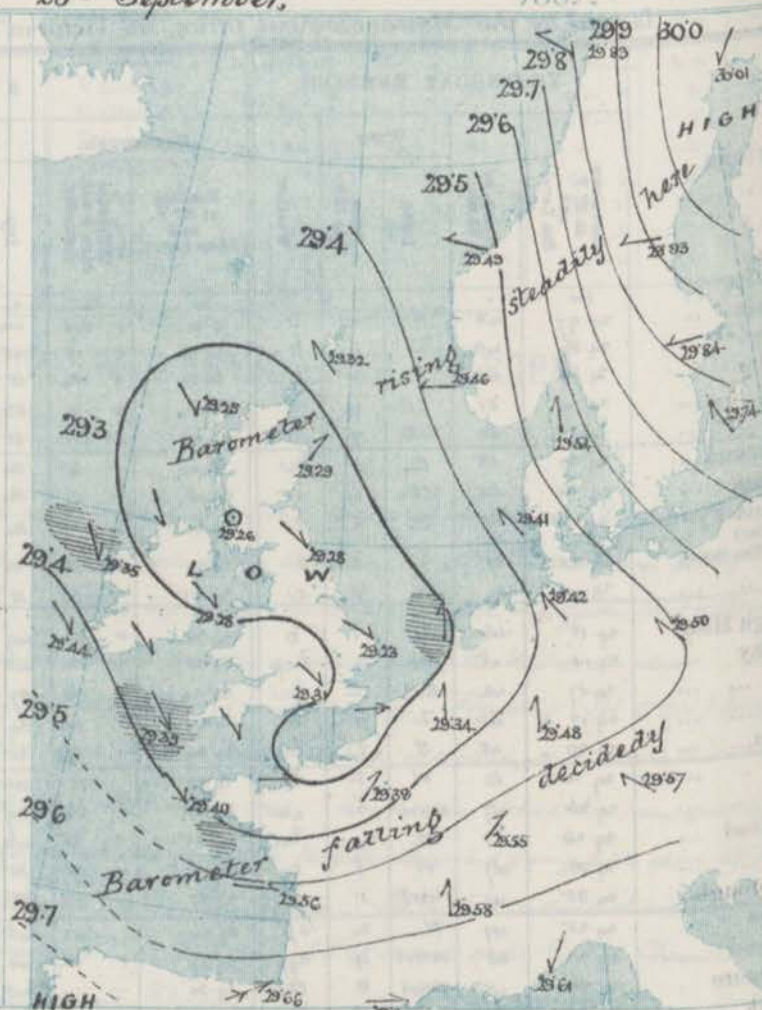
**Sea Disturbance** — where considerable is shown thus

■ = Rough. ■ = High

## MEAN HEIGHT of the BAROMETER

at 8 a.m. for the month of September.  
 During the 10 Years 1871-1880.

STATIONS.	MEAN READING.
	in.
Sumburgh Head	29.758
Stormoway	29.781
Wick	29.786
Nairn	29.812
Aberdeen	29.815
Leith	29.851
Shields	29.876
York	29.913
Ardrossan	29.958
Donaghadee	29.875
Holyhead	29.908
Liverpool	29.910
Valencia	30.929
Roche's Point	29.923
Pembroke	29.924
Scilly	29.960
Hurst Castle	29.973
Dover	29.965
LONDON	29.966
Oxford	29.943
Cambridge	29.943
Yarmouth	29.928



## 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.

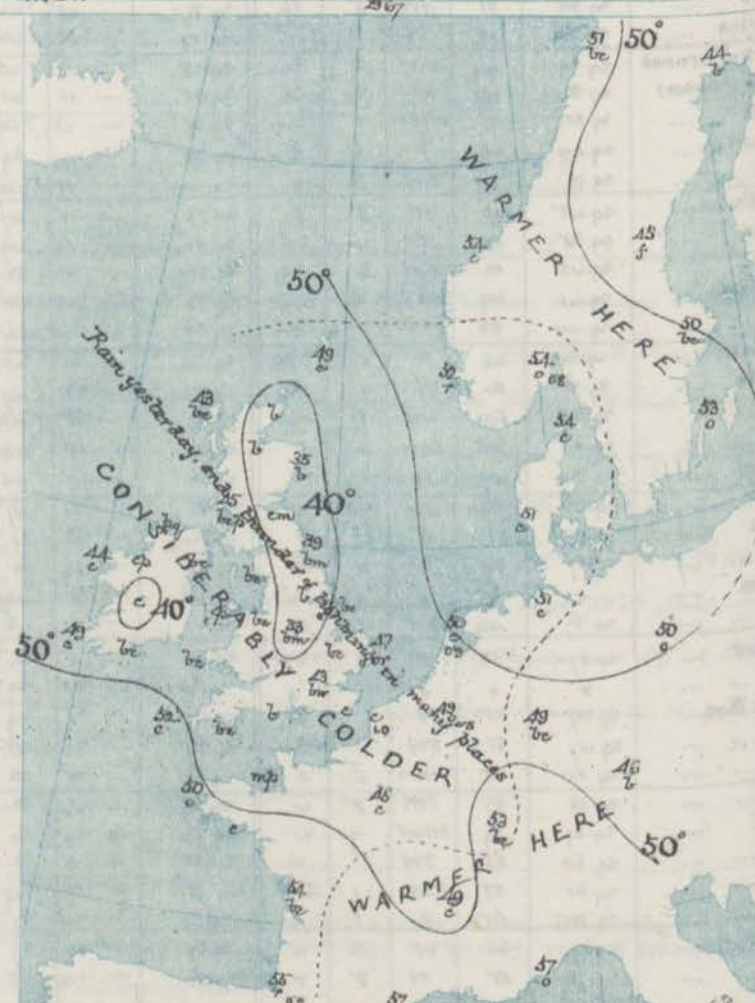
**Rainfall** — A dotted line separates the districts in which rain has fallen from those where there has been none. Falls of 0.5 in. or more, are quoted in figures.

## MEANS OF TEMPERATURE IN SHADE. AND RAINFALL.

for the month of September.

STATIONS	TEMPERATURE				RAINFALL (Inches)
	Daily Max.	Daily Min.	Average Dry	Average Wet	
Sumburgh Head	55.2	46.2	60.8	49.0	3.46
Stormoway	55.9	45.4	61.0	49.7	4.13
Wick	57.5	45.8	61.6	49.7	2.66
Nairn	59.0	47.0	61.3	48.8	2.78
Aberdeen	58.0	47.1	62.0	49.8	3.28
Leith	62.7	47.8	63.6	61.1	2.47
Shields	69.0	49.0	63.4	61.2	2.58
York	63.2	47.3	63.1	61.2	2.93
Ardrossan	59.9	49.9	63.6	61.0	3.87
Donaghadee	59.6	49.2	63.3	62.1	3.22
Holyhead	61.1	53.1	63.6	63.4	3.36
Liverpool	61.3	51.2	64.7	62.0	3.56
Valencia	61.9	62.0	66.4	63.9	4.87
Roche's Point	62.0	61.7	65.4	63.2	4.39
Pembroke	60.4	53.4	66.3	62.0	3.89
Scilly	61.9	55.2	65.5	66.5	3.69
Hurst Castle	64.4	52.9	67.8	66.3	3.35
Dover	63.1	52.6	63.3	65.4	3.86
LONDON	66.9	49.3	66.4	64.0	2.59
Oxford	68.8	49.0	64.2	62.4	2.91
Cambridge	65.8	48.6	64.6	62.9	2.48
Yarmouth	62.3	50.8	66.3	64.4	2.17

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





# GENERAL SITUATION AT 8 A.M.

## PRESSURE

Highest, 30.05 in. at Lisbon, and about 29.66 in. at Biarritz and Perpignan — 30.1 in. at Haparanda about 29.5 in. at Christiania and the Sound.  
Lowest, 29.23 in. at Tarmouth, 29.25 in. at Storm Head (29.27 in. at C. Ben Nevis, Leth, Melin Head and Bonaparte's).

Gradients slight in our islands, moderate over Spain and Bay of Biscay, rather steep over Sweden and Norway.  
Barometer rising slowly in north, falling in south.

## TEMPERATURE

Highest, 58° at Lisbon, 57° at Nice & Perpignan, 54° at Christiania, 52° at the Sound, 52° at Skutumpah.  
Lowest, 33° at Loughborough, 35° at York, 37° at Leth, 38° at Narvik and Porsmatoron.

It has risen since yesterday over Germany & the Southwest of France, as well as in Norway, fallen elsewhere. Sharp frost has occurred at our northern inland stations during the night.

## WIND

Moderate NW at the Irish stations and over the southwest of England.  
Moderate to strong W over the Bay of Biscay — Light SW and S over France and the Netherlands.  
Light to moderate SE in Germany and Denmark — Moderate E over Scandinavia.  
Over Scotland and the north and east of England the wind is variable and very light, chiefly NW.

## WEATHER

Fair at present in nearly all places — very clear over Great Britain.  
Light rain is falling at some of the western and southern stations, as well as at Tarmouth and Skutumpah.  
Rain fell yesterday except over the northern part of Scandinavia, and thunderstorms occurred in many parts of the British Islands. A much sun was seen at Loughborough.

## SEA

Rather rough at some western and southwestern stations and at the Helder, moderate to smooth elsewhere.

## PROBABLE CHANGES IN SYSTEM NOW PREVALENT

The recovery of pressure in the north will probably continue and spread gradually over the United Kingdom,

bringing with it N<sup>th</sup> and NE<sup>th</sup> winds and cold weather to all our coasts.

## FORECASTS

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

### DISTRICTS.

### FORECASTS.

0 SCOTLAND  
NORTH

Wind drifting to NE. and E., light;  
fair generally.

1 SCOTLAND  
EAST

.....D.....D.....D.....

2 ENGLAND  
N.E.

Same as N<sup>o</sup> 4.

3 ENGLAND  
EAST

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

4 MIDLAND  
COUNTIES

NW<sup>th</sup> to NE<sup>th</sup> winds and light breezes; fair, cold.

5 ENGLAND  
SOUTH

Wind veering N<sup>west</sup>, light; fair, cold.

### DISTRICTS.

### FORECASTS.

6 SCOTLAND  
WEST

N<sup>th</sup> or NE<sup>th</sup> breezes, light; fine.

7 ENGLAND  
N.W.

.....D.....D.....D.....

8 ENGLAND  
S.W.

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

9 IRELAND  
NORTH

N<sup>th</sup> breezes, moderate; fair

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.	D.	Wet.	Wind.	Wea.	Sea.		Bar.	D.	Wet.	Wind.	Wea.	Sea.		
Skudesnaes ...	29.17	56	44	SSW	1	c	4	Holyhead ...	29.34	53	48	W	4	bcpq	4
Sumburgh Head ...	29.17	50	46	SW	1	b	1	Valencia ...	29.53	54	48	NW	4	bcpq	5
Stornoway ...	29.13	48	47	W	3	bcp	3	Scilly ...	29.50	54	50	WNW	6	oq	5
Aberdeen ...	29.20	53	50	S	4	b	1	Dungeness ...	29.43	59	55	W	4	bc	3
Shields ...	29.27	51	48	Z	0	c	2	London ...	29.37	59	50	WSW	2	bc	*
Ardrossan ...	29.24	52	47	WNW	4	b	3	Yarmouth ...	29.37	57	51	SSW	2	b	2
Malin Head ...	29.25	49	45	NW	3	0	4	Jersey ...	29.50	58	52	W	4	bc	4
Mullaghmore ...	29.35	49	46	WNW	6	bcpq	5	Rocheport ...	29.69	61	57	WNW	7	0	2
Belmullet ...	29.40	52	46	NW	4	c	*								

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

Yesterday morning's reports showed three high pressure areas - one lying off the coast of Portugal, another over the Black Sea and a third over the north of Russia. In each of these the highest readings reported were about 30.0 ins., while off the north of Ireland lay a depression in which the minimum values were about 29.1 ins. A second depression, with minimum values about 29.5 ins. lay off the Italian coast, with its centre near Civita Vecchia. Thus W<sup>ly</sup> and NW<sup>ly</sup> winds of considerable strength, with showery cold weather, prevailed over the greater part of the British Islands, the Bay of Biscay and west of France, while light SW<sup>ly</sup> and S winds and fair weather were reported over Central Europe and E<sup>ly</sup> winds and fair weather over Scandinavia. Over the Mediterranean the wind was N<sup>ly</sup>, the weather dull and unsettled. Temperature, which was falling again over Northwestern Europe and rising over Central France, ranged from 74° and more over the extreme southern parts of the Mediterranean, and from between 53° and 60° in the south of France to less than 50° over the greater part of the British Islands and Russia to less than 40° over Central Germany and Hungary. The highest individual values were 74° at Malta, 73° at Palermo, 72° at Cagliari, 66° at San Fernando, 61° at Lisbon, and 60° at Nice; the lowest 36° at Cracow, 38° at Vienna, 39° at Munich and Baden, 40° at Wiesbaden, 41° at Archangel and 43° at Stornoway.

Later in the day the depression in the northwest filled up and the barometer rose slowly over the whole of Northern Europe. Thunderstorms occurred in many parts of the British Islands, and heavy rain fell over Holland and at Biarritz. At night the sky cleared over St. Britain and frost occurred in many inland districts.

### 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, i. £1 per annum, payable in advance.



# DAILY WEATHER REPORT.

for THURSDAY 29<sup>th</sup> SEPTEMBER. 1887.

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

		+ YESTERDAY EVENING.					8 A.M. TO DAY.										PAST 24 HOURS.		
STATIONS.	Barometer at 32° F. and Sea Level.	Temp. in Shade.	WIND.		Weather.	BAROMETER.		SHADE TEMP.			WIND.		Weather.	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 ..	29.04	46	N	2	0	29.09	+ .08	46	45	+ 2	N	2	C	*	48	36	—		
Hernösand ..	29.92	49	NE	4	0	29.99	+ .06	49	47	+ 4	N	2	0	*	54	36	—		
Stockholm ..	29.90	46	NE	2	0	29.88	+ .04	48	47	— 2	NNE	2	0	*	59	43	—		
Wisby ..	29.79	48	E	4	C	29.75	+ .01	50	48	— 3	ENE	4	B	*	57	46	—		
Bodo ..	29.92	52	ESE	4	0	30.02	+ .19	50	48	— 1	E	2	B	1	57	45	—		
Christiansund ..	29.72	56	ESE	4	B	29.83	+ .34	51	47	— 3	ESE	3	B	2	61	48	—		
Skudesnaes ..	29.56	57	E	4	0	29.76	+ .30	54	50	+ 2	ENE	2	T	3	59	52	—		
Christiania Fjord (Fjorder)	29.70	54	NE	3	0	29.80	+ .19	49	47	— 5	NNE	5	C	2	57	48	—		
Skagen (The Scaw)	29.62	55	ESE	4	0	29.71	+ .17	52	50	— 2	ESE	5	0	3	57	52	0.04		
Faño ..	29.47	52	SE	4	C	29.54	+ .13	53	52	+ 2	E	4	C	*	59	?	—		
BRITISH ISLANDS.																			
Sumburgh Head	29.43	50	ENE	4	T	29.76	+ .44	53	51	+ 4	ENE	2	0	4	54	47	0.10		
Stornoway ..	29.43	47	E	2	B	29.63	+ .38	54	50	+ 11	E	5	C	4	54	43	0.05		
Wick ..	29.39	50	E	1	0	29.69	+ .40	54	52	+ 17	SE	4	CW	2	55	35	0.05		
Nairn ..	29.36	48	L	0	B	29.60	+ .33	50	49	+ 11	E	2	or	1	53	39	0.24		
Aberdeen ..	29.32	49	N	4	rm	29.59	+ .30	49	48	+ 14	NE	3	T	3	52	34	0.42		
Leith ..	29.32	49	W	1	B	29.46	+ .19	53	49	+ 9	E	4	B	*	56	42	0.22		
Shields ..	29.27	49	N	3	0	29.47	+ .19	51	48	+ 12	E	2	C	3	52	37	0.45		
Spurn Head ..	29.24	47	NNW	3	T	29.43	+ .18	47	46	+ 1	N	2	B	2	52	43	0.47		
York ..	29.27	47	ENE	1	T	29.44	+ .17	46	45	+ 1	E	1	B	*	52	34	0.10		
Loughborough	29.31	49	NNW	1	L	29.43	+ .12	52	52	— 1	L	0	fw	*	56	31	0.05		
GERMANY.																			
Androssau ..	29.33	46	NE	1	B	29.46	+ .20	50	48	+ 5	NE	1	B	2	51	42	0.08		
Malin Head ..	29.31	48	NNE	3	B	29.47	+ .20	51	48	+ 5	NNE	4	op	3	52	44	0.18		
Mallaghmore ..	29.36	49	N	5	C	29.49	+ .19	50	49	+ 5	N	6	to	5	53	44	0.27		
Belmullet ..	29.41	45	ENE	1	0	29.57	+ .22	50	49	+ 6	N	3	T	*	51	43	0.62		
Donaghadee ..	29.33	50	NE	3	C	29.40	+ .13	51	50	+ 8	NE	6	T	4	54	42	0.05		
FRANCE & NETHERLANDS.																			
Barrow-in-Furness	29.27	48	N	2	C	29.57	+ .09	47	45	+ 5	SE	5	0	*	52	42	0.01		
Liverpool (Bidston)	29.29	49	NNW	1	0	29.42	+ .14	44	43	— 1	SSE	1	rf	1	52	43	0.06		
Holyhead ..	29.30	48	L	0	C	29.42	+ .14	46	45	— 8	L	0	om	0	57	44	0.39		
Parsonstown ..	29.35	46	NNW	1	0	29.50	+ .14	39	39	0	L	0	C	*	52	36	0.01		
Valencia ..	29.41	46	N	4	op	29.57	+ .13	53	47	+ 4	N	4	B	4	55	45	0.19		
PENINSULA.																			
Roche's Point...	29.33	50	NW	4	B	29.50	+ .13	48	45	+ 1	NNW	4	B	4	54	44	—		
Pembroke ..	29.30	48	NW	3	B	29.41	+ .09	46	45	— 3	NE	3	B	1	51	42	—		
Scilly ..	29.30	51	NNW	5	op	29.36	+ .01	52	49	0	NNE	4	C	6	53	45	0.30		
Prawle Point ..	29.32	47	NNW	3	B	29.35	+ .02	51	48	+ 3	N	3	C	3	64	38	0.01		
Jersey ..	29.33	52	NNW	2	B	29.30	0.00	48	46	+ 2	SSE	2	op	2	55	43	0.23		
Hurst Castle ..	29.30	50	S	1	B	29.37	+ .07	46	45	+ 1	NE	2	B	1	57	40	0.05		
Dungeness ..	29.28	52	W	3	B	29.32	+ .05	40	39	— 7	N	2	C	2	58	37	—		
London ..	29.29	50	L	0	B	29.39	+ .08	38	38	— 5	NNW	1	fw	*	57	35	—		
Oxford ..	29.31	44	W	1	B	29.41	+ .10	38	37	— 2	W	1	B	*	56	34	—		
Cambridge ..	29.28	49	W	1	C	29.42	+ .16	34	34	— 10	NW	1	0	*	57	32	—		
Yarmouth ..	29.26	48	L	0	B	29.37	+ .14	49	47	+ 2	NNE	6	op	4	50	41	0.50		
Cuxhaven ..	29.45	49	SE	2	B	29.49	+ .07	50	49	— 1	ESE	3	B	*	56	48	—		
Berlin ..	29.50	53	E	2	B	29.58	0.00	44	44	— 6	E	1	B	*	61	46	—		
Wiesbaden ..	*	*	*	*	*	29.47	— .01	49	48	0	L	0	0	*	61	45	—		
Munich ..	29.58	48	SE	3	C	29.49	— .08	47	45	+ 1	SW	4	0	*	59	43	—		
FRANCE & NETHERLANDS.																			
The Helder ..	29.35	47	SSE	1	B	29.38	+ .09	50	48	0	E	5	T	3	55	45	—		
Brussels ..	*	*	*	*	*	29.39	+ .05	47	44	— 2	SSW	1	0	*	56	46	0.16		
Cape Gris Nez...	29.30	50	SW	1	B	29.33	+ .06	50	46	+ 1	SW	1	0	1	55	43	—		
Paris ..	29.34	47	SSW	1	B	29.43	+ .04	40	40	— 8	SSW	3	0	2	59	40	0.12		
Brest ..	29.43	52	NNW	5	0	29.36	— .04	44	44	— 6	NE	2	0	5	?	43	0.16		
Lorient ..	29.42	54	NNW	5	B	29.26	— .13	47	46	— 5	E	4	0	4	64	45	0.20		
Rocheport ..	29.50	56	NNW	7	T	29.39	— .17	52	51	— 2	S	7	T	2	57	48	0.27		
Belfort ..	29.47	53	SW	2	0	29.54	— .01	46	45	— 7	SSW	2	C	*	58	42	—		
Lyons ..	29.45	53	SSW	4	0	29.54	— .04	44	41	— 9	S	1	B	*	62	40	0.28		
Nice ..	29.52	63	S	4	0	29.49	— .12	55	50	— 2	W	1	C	1	72	50	—		
Perpignan ..	29.59	56	NR	2	C	29.51	— .12	53	57	— 4	NW	2	0	*	72	50	0.04		
Biarritz ..	29.60	58	WSW	8	T	29.51	— .15	56	51	0	W	9	T	5	64	50	0.59		
Corunna ..	*	*	*	*	*	29.70	— .12	58	53	— 1	WSW	7	C	6	63	50	0.67		
Lisbon ..	30.01	63	W	5	B	29.89	— .16	63	61	+ 5	W	5	B	5	68	61	—		

For Explanation of Columns, see p. 4.



# WEATHER CHARTS

for 8 a.m. on

Thursday, 29<sup>th</sup> September

1887.

## BAROMETER, WIND & SEA.

(Explanation of Map)

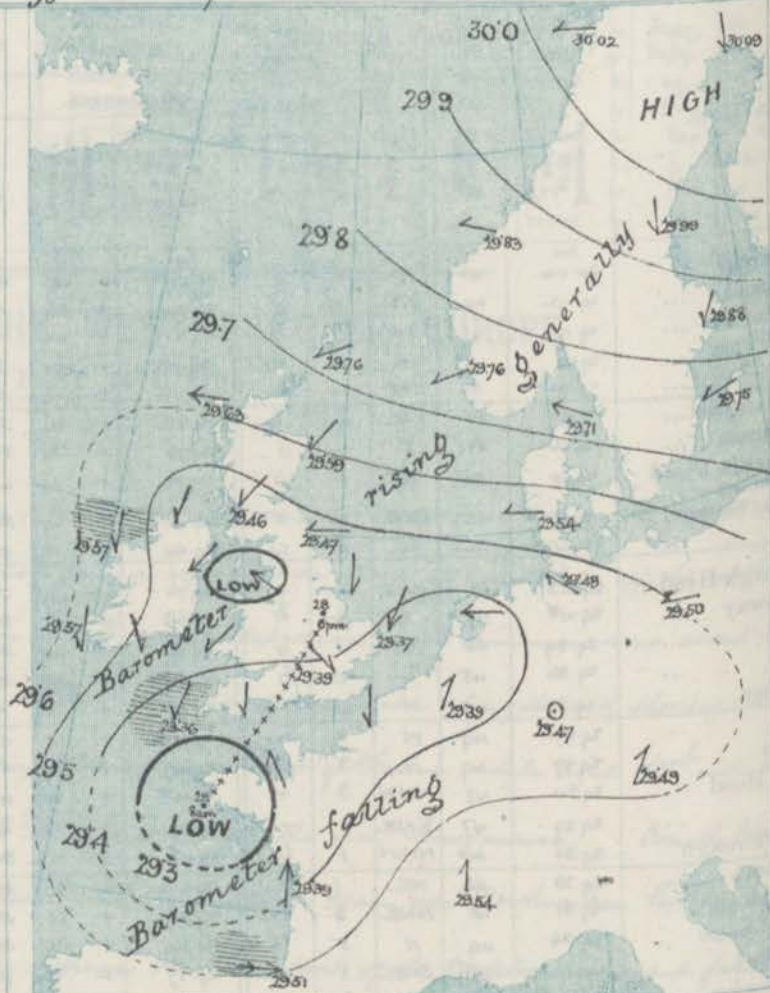
**Barometer** — Isotherms are drawn for each tenth of an inch. Changes since previous morning are stated in words.  
**Wind** — Arrows show the prevalent winds. They fly with the wind and their barbs and feathers refer to force, thus —  
 \* — force above 10; \* — force 8 to 10;  
 \* — force 5 to 7;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

**Sea Disturbance** — where considerable, is shown thus  
 [Symbol] — Rough. [Symbol] — High.

## MEAN HEIGHT of the BAROMETER

at 8 a.m. for the month of September.  
 During the 10 years 1871—1880.

STATIONS	MEAN READINGS
	in.
Sumburgh Head	29.758
Stornoway	29.781
Wick	29.786
Nairn	29.812
Aberdeen	29.815
Leith	29.851
Shields	29.876
York	29.913
Ardrossan	29.858
Donaghadee	29.875
Holyhead	29.903
Liverpool	29.910
Valencia	29.929
Boche's Point	29.923
Pembroke	29.924
Scilly	29.960
Hurst Castle	29.978
Dover	29.955
LONDON	29.956
Oxford	29.943
Cambridge	29.948
Yarmouth	29.928



## 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 September.

STATIONS	TEMPERATURE.				RAINFALL. (Inches)
	Daily Max.	Daily Min.	At 8 a.m.		
			Dry.	Wet.	
Sumburgh Head	55.2	46.2	50.6	49.0	3.46
Stornoway	55.9	45.4	51.0	49.7	4.13
Wick	57.5	45.3	51.6	49.7	2.66
Nairn	59.0	47.0	51.3	49.8	2.78
Aberdeen	58.0	47.1	52.0	49.6	3.22
Leith	62.7	47.8	53.5	51.1	2.47
Shields	60.0	49.0	53.4	51.2	2.58
York	63.2	47.3	53.1	51.2	2.98
Ardrossan	59.9	49.9	53.6	51.0	3.87
Donaghadee	50.5	49.2	53.3	52.1	3.22
Holyhead	61.1	53.1	55.6	53.4	3.35
Liverpool	61.3	51.2	54.7	52.0	3.56
Valencia	61.9	52.0	56.4	53.9	4.87
Roche's Point	62.0	51.7	55.4	53.2	4.89
Pembroke	60.4	53.4	56.3	53.9	3.89
Scilly	61.9	55.2	58.5	56.5	3.09
Hurst Castle	64.4	52.9	57.8	56.3	3.85
Dover	63.1	52.8	58.3	55.4	2.86
LONDON	66.9	49.3	56.4	54.0	2.59
Oxford	63.8	49.0	54.2	52.4	2.91
Cambridge	65.8	48.5	54.5	52.9	2.48
Yarmouth	62.3	50.8	56.3	54.4	3.17

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, 29.69 in. at Haparanda, 29.59 in. at Leston and about 29.67 in. both in the south of France and west of Ireland.  
Lowest, 29.26 in. at Lorient, 29.32 in. at Hongkong, 29.37 in. at Barrow-in-Furness.  
Gradient - moderate; Barometer rising in our islands, most in the north - falling in southwest of France.

### TEMPERATURE

Highest, 63° at Leston, 55° at Biarritz, 54° at St. Helens, Wick and Lornoway, 53° at Lame and Leith.  
Lowest, 32° at Loughborough, 34° at Cambridge, 38° in London and at Oxford.  
It has risen fast over the northern parts of the Kingdom during the past 24 hours.

### WIND

Moderate from E<sup>nd</sup> over the North Sea, Scotland; and north-easterly parts of Great Britain.  
Somewhat strong N<sup>th</sup> in Ireland. Very variable and light over our Highland and South-eastern counties.  
A moderate gale from between S. and W. prevails in the southwest of France.

### WEATHER

Varies greatly. It is fine (but foggy) over our southern and Highland counties.  
Fair in the east of Ireland; unsettled and rainy in Scotland and in the north and west of Ireland.  
Rain and rainy in the west of France. Thunderstorms have again been very prevalent in the north, west and southwest.

### SEA

Smooth in the east, and in the English and Irish Channels, moderate off the west of Ireland and rough at Scilly and over some parts of the Bay of Biscay.

### PROBABLE CHANGES IN SYSTEM NOW PREVALENT

The depressions seem likely to continue their movement to the southwestward or southward, and in their rear the E<sup>ly</sup> winds and rainy weather will probably spread to our southern and south-eastern counties, while in the north and west the sky will clear.

## FORECASTS

For the 24 hours ending at NOON on 30<sup>th</sup> September 1887.

### DISTRICTS.

### FORECASTS.

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

NE<sup>ly</sup> winds, moderate; showery to fair.

-----D-----D-----D-----

Similar to N<sup>o</sup> 5.

Similar to N<sup>o</sup> 5.

Similar to N<sup>o</sup> 5.

Varying N<sup>ly</sup> to E<sup>ly</sup> breezes; weather very uncertain.

### DISTRICTS.

### FORECASTS.

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

NE<sup>ly</sup> breezes, moderate; fair.

Same as N<sup>o</sup> 9 and 10.

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

N<sup>ly</sup> and NE<sup>ly</sup> breezes, fresh or strong; rainy to fair.

-----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.	Wen.	Sea.		Bar.	Dry.	Wet.	Wind.	Wen.	Sea.		
Skudesnaes ...	29.48	52	54	ESE	6	o	4	Holyhead ...	29.28	54	49	WNW	2	c	2
Sumburgh Head ...	29.42	52	51	E	2	o	2	Valencia ...	29.40	55	49	NW	4	bep	5
Stornoway ...	29.36	50	49	E	2	bc	3	Scilly ...	29.36	53	49	NNW	6	c	6
Aberdeen ...	29.31	53	48	NNE	3	b	1	Dungeness ...	29.28	56	51	WSW	3	bc	2
Shields ...	29.27	53	47	N	2	b	2	London ...	29.27	50	47	N	1	bc	*
Ardrossan ...	29.29	49	46	NE	1	bc	1	Yarmouth ...	29.25	47	46	2	o	or	2
Malin Head ...	29.34	48	45	N	3	c	2	Jersey ...	29.32	53	48	NW	3	bc	3
Mullaghmore ...	29.32	51	47	NW	1	bc	5	Rochefort ...	29.49	57	53	W	5	r	2
Belmullet ...	29.26	51	46	NNW	1	bc	*								

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

Yesterday morning's reports showed that pressure varied from about 30.0 ins. over Central Russia and Lapland, on the one hand, and over the southwestern half of the Spanish Peninsula on the other, to between 29.2 ins. and 29.3 ins. in a complex depression which lay over the northern and eastern part of Great Britain, and to 29.5 ins. in another (small) one which lay near Ruda Keith. Thus, while SE<sup>2</sup> air prevailed over Russia and E<sup>2</sup> breezes over Scandinavia — with fair weather in most places, W<sup>2</sup> and NW<sup>2</sup> winds were experienced in France and the British Isles, blowing fresh, and in some places being accompanied by cloudy weather, and rain at times. Snow fell at the Py de Dome. Temperature fell fast and ground frost occurred over the British Isles, but it rose over Central Europe, where, however, the readings were still low for the time of year. Cool weather prevailed over Algeria also. The 8 a.m. values varied from 70° to 74° over the southern part of the Mediterranean to less than 50° over Central Germany and to much below 40° over the northern half of Great Britain. The highest individual values were 74° at Malta, 71° at Brindisi and Palma, 64° at Barcelona, and 54° in several parts of Norway; the lowest 33° at Loughborough, 35° at York, 37° at Wick, 33° at Kain and Parosmora, 43° in London and at Aasow, and 44° at Lemberg.

Later in the day temperature recovered considerably over the British Isles, and as the depression there moved southward a good deal of rain fell over many parts of the British Isles and France, and snow in some parts of Hungary.

### 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 30<sup>th</sup> September 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. Reading at 32° F. and Sea Level.	Difference from 8 a.m. yesterday.	SHADE TEMP.			WIND.		Weather.	Sea. (0 to 9.)	SHADE TEMP.		Amount of Rainfall.	
			Dir.	Force. (0 to 12.)				Dry.	Wet.	Difference from 8 a.m. yesterday.	Dir.	Force. (0 to 12.)			Max.	Min.		
SCANDINAVIA.																		
Haparanda ..	30.15	45	NNE	2	0	30.17	+0.02	37	35	-2	E	2	b	*	50	?	In.	
Hernösand ...	30.06	49	NE	4	0	30.04	+0.02	46	46	-1	NE	4	0	*	50	46	-	
Stockholm ...	29.88	46	NE	2	0	29.83	-0.05	48	46	0	ESE	4	0	*	57	43	0.04	
Wisby ...	29.77	50	ESE	4	b	29.63	-0.12	50	48	0	ESE	4	bc	*	59	43	-	
Bodö ...	30.06	48	ESE	1	b	30.03	+0.01	49	47	-1	ESE	2	b	1	55	45	-	
Christiansund...	29.91	48	ESE	1	b	29.95	+0.04	47	46	-1	S	1	b	2	57	41	-	
Skudesnaes ...	29.92	52	Z	0	bc	29.97	+0.05	50	45	-5	NNE	1	bc	2	59	?	-	
Christiania Fjord (Verder)	29.89	53	NNE	5	b	29.89	+0.00	49	46	0	NNE	5	c	2	54	48	-	
Skagen (The Skaw)	29.80	52	E	5	0	29.82	+0.02	50	47	-2	ESE	5	0	3	54	50	-	
Faenø ...	29.69	51	NNE	4	r	29.73	+0.04	51	49	-2	NE	4	b	*	59	48	0.04	
BRITISH ISLANDS.																		
Sumburgh Head	29.92	52	Z	0	c	30.03	+0.11	47	46	-1	Z	0	0	2	57	45	0.02	
Stornoway ...	29.92	54	E	6	c	30.10	+0.18	50	50	-1	N	3	cm	3	57	48	0.03	
Wick ...	29.92	53	E	2	0	30.07	+0.15	47	47	-1	N	2	0	1	55	45	0.06	
Nairn ...	29.87	53	NE	3	0	30.07	+0.20	51	50	+1	SW	1	c	1	56	49	0.10	
Aberdeen...	29.83	54	NE	4	0	30.03	+0.20	51	50	+2	N	3	cm	4	58	47	0.01	
Leith ...	29.74	55	E	4	c	30.00	+0.26	52	50	-1	NW	3	c	*	58	51	0.04	
Shields ...	29.63	55	NE	4	0	29.92	+0.29	53	51	+2	NE	4	r	4	57	50	0.03	
Spurn Head ...	29.48	53	E	5	bc	29.79	+0.31	55	54	+8	NE	4	bc	5	55	46	0.40	
York ...	29.53	50	N	2	c	29.85	+0.32	54	52	+8	NE	2	c	*	56	45	0.14	
Loughborough	29.48	48	NNE	3	0	29.83	+0.35	44	43	+12	NW	2	ogm	*	55	32	0.33	
Ardrossan ...	29.73	56	NE	4	bc	30.00	+0.27	53	49	+3	NE	3	bc	2	59	49	-	
Malin Head ...	29.76	55	NE	4	c	30.03	+0.27	55	52	+4	NE	4	b	3	56	51	-	
Mullaghmore ...	29.73	55	NE	6	bc	30.01	+0.28	54	51	+4	NE	5	b	4	56	49	0.03	
Belmullet ...	29.74	55	NE	6	c	30.04	+0.30	55	53	+5	NNE	2	b	*	57	48	0.23	
Donaghadee ...	29.69	55	NE	4	c	29.96	+0.27	54	52	+3	NE	7	b	3	56	47	0.03	
Barrow-in-Furness	29.57	54	NNE	2	c	29.86	+0.29	53	51	+6	NE	3	bc	*	57	46	0.11	
Liverpool (Bidston)	29.56	52	N	3	0	29.85	+0.29	51	50	+7	NE	1	of	2	52	44	0.04	
Holyhead ...	29.61	53	NNE	4	cm	29.86	+0.25	55	53	+9	NE	5	ogm	5	56	46	0.04	
Parsonstown ...	29.66	50	N	1	bc	29.86	+0.20	51	48	+12	N	2	b	*	52	38	0.13	
Valencia ...	29.62	51	NE	3	p	29.93	+0.31	53	50	0	NNE	5	cq	5	56	48	0.36	
Roche's Point...	29.57	50	NNE	2	c	29.83	+0.26	52	51	+4	NE	4	p	4	55	45	0.01	
Pembroke ...	29.55	51	NNE	3	m	29.77	+0.22	50	50	+4	ESE	5	bc	2	56	46	0.12	
Scilly ...	29.52	51	N	4	c	29.65	+0.13	53	50	+1	ESE	5	bc	4	54	49	0.10	
Prawle Point ...	No observations taken					29.71	+0.19	52	49	+1	NE	5	bc	4	59	43	0.05	
Jersey ...	29.45	52	NNE	1	bc	29.64	+0.19	50	48	+2	ESE	3	pc	3	58	48	0.03	
Hurst Castle ...	29.47	51	NNE	2	m	29.72	+0.25	49	48	+3	NE	4	m	2	57	40	-	
Dungeness ...	29.46	52	SSE	2	c	29.69	+0.23	47	44	+7	E	4	c	3	57	39	-	
London ...	29.50	48	N	2	or	29.76	+0.26	39	39	+1	NE	1	bc	*	56	37	0.01	
Oxford ...	29.52	44	NE	2	r	29.80	+0.28	39	39	+1	NE	2	bc	*	57	36	0.09	
Cambridge ...	29.50	47	NW	1	r	29.81	+0.31	42	42	+8	NW	1	0	*	52	33	0.13	
Yarmouth ...	29.41	52	SSE	6	cq	29.71	+0.30	54	53	+5	NNE	4	c	4	54	43	0.30	
Cuxhaven ...	29.57	49	ESE	3	c	29.64	+0.07	52	51	+2	NE	6	r	*	55	49	0.16	
Berlin ...	29.51	48	Z	0	0	29.56	+0.05	51	48	+7	Z	0	c	*	63	?	-	
Wiesbaden ...	*	*	*	*	*	29.69	+0.13	39	39	-10	SW	1	b	*	55	36	-	
Munich ...	29.63	?	W	2	0	29.68	+0.05	35	35	-12	NW	2	0	*	48	32	0.28	
FRANCE & NETHERLANDS.																		
The Helder ...	29.59	50	SE	1	b	29.70	+0.11	53	52	+3	N	1	c	1	55	48	0.12	
Brussels ...	*	*	*	*	*	29.55	+0.06	43	42	-4	ESE	1	c	*	?	?	-	
Cape Gris Nez...	29.46	48	E	1	bc	29.68	+0.22	?	44	?	E	4	b	2	57	43	0.28	
Paris ...	29.46	50	E	3	0	29.63	+0.17	45	44	+5	E	1	0	*	57	?	0.16	
Brest ...	29.52	52	NE	4	b	29.65	+0.13	46	45	+2	ESE	3	0	2	73	?	-	
Lorient ...	29.45	54	NNE	5	c	29.65	+0.20	48	46	+1	N	3	bc	4	57	45	-	
Rochefort ...	29.45	54	W	5	0	29.66	+0.21	54	50	+2	NW	4	c	2	59	46	0.16	
Belfort ...	29.54	50	NE	1	b	29.68	+0.14	45	44	-1	N	1	r	*	57	43	0.20	
Lyons ...	29.50	51	S	3	bc	29.67	+0.17	49	45	+5	SW	3	b	*	61	?	-	
Nice ...	29.56	55	W	1	0	29.60	+0.04	53	49	-2	Z	0	b	4	66	51	0.08	
Perpignan ...	29.62	49	NW	4	0	29.74	+0.12	50	48	-3	W	3	c	*	65	45	0.32	
Biarritz ...	29.55	55	W	9	r	29.71	+0.16	52	49	-3	NW	11	r	7	63	50	0.71	
Corunna ...	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	
Lisbon ...	29.95	60	NW	4	b	29.96	+0.01	57	54	-6	NW	3	bc	5	66	54	0.04	

For Explanation of Columns, see p. 4.



# WEATHER CHARTS

for 8 a.m. on

Friday, 30<sup>th</sup> September.

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.

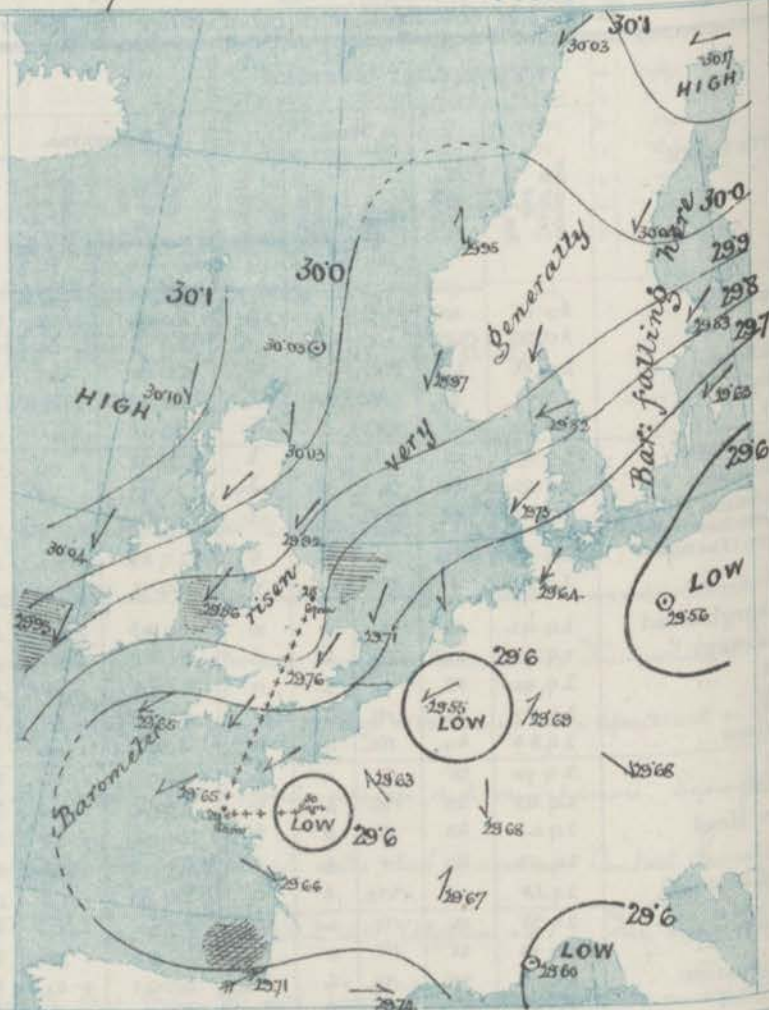
**Sea Disturbance** — where considerable is shown thus

■ = Rough. ■ = High.

## MEAN HEIGHT of the BAROMETER

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

STATIONS.	MEAN READINGS.
Sumburgh Head.	29.758
Stornoway.	29.781
Wick.	29.780
Nairn.	29.812
Aberdeen.	29.815
Leith.	29.851
Shields.	29.876
York.	29.918
Ardrossan.	29.858
Donaghadee.	29.875
Holyhead.	29.903
Liverpool.	29.910
Valencia.	29.920
Roche's Point.	29.923
Farmbroke.	29.924
Scilly.	29.960
Hurst Castle.	29.978
Dover.	29.965
LONDON.	29.960
Oxford.	29.943
Cambridge.	29.943
Yarmouth.	29.929



## 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 September.

STATIONS	TEMPERATURE				RAINFALL (Inches)
	Daily Max	Daily Min.	Average Dry	Average Wet	
Sumburgh Head.	55.2	46.2	50.6	40.0	3.46
Stornoway.	55.9	45.4	51.0	40.7	4.13
Wick.	57.5	45.3	51.6	40.7	3.66
Nairn.	59.0	47.0	53.3	48.8	2.73
Aberdeen.	58.0	47.1	52.0	40.0	3.22
Leith.	62.7	47.8	55.5	51.1	2.47
Shields.	60.0	49.0	54.4	51.2	2.68
York.	63.2	47.3	55.1	51.2	3.08
Ardrossan.	59.0	49.9	53.3	51.0	3.87
Donaghadee.	59.5	49.2	53.3	52.1	3.22
Holyhead.	61.1	53.1	55.0	53.4	3.35
Liverpool.	61.3	51.2	54.7	52.0	3.56
Valencia.	61.9	52.0	56.4	53.0	4.87
Roche's Point.	62.0	51.7	56.4	53.2	4.99
Farmbroke.	60.4	53.4	56.8	53.0	3.59
Scilly.	61.9	55.2	58.5	56.5	3.09
Hurst Castle.	64.4	52.9	57.3	56.3	3.35
Dover.	63.1	52.8	56.3	55.4	2.56
LONDON.	65.9	49.8	56.4	51.0	2.59
Oxford.	59.8	49.0	54.2	52.6	2.91
Cambridge.	65.8	49.5	54.5	52.0	2.43
Yarmouth.	62.3	50.8	56.3	54.4	3.17

Note: — The Temperature means are for the 20 years 1871—90, the Rainfall means are mainly those for the 20 years 1865—85.





# GENERAL SITUATION AT 8 A.M.

## PRESSURE

Highest, 30.7 in. at Hafnarfjörður, 30.1 in. at Stromsø, and 30.0 in. and more over Scotland and the N. parts of Ireland, Sweden and Norway.  
 Lowest, about 29.60 in. near Tours and at Nice, and 29.55 in. at Brussels and Berlin.  
 Gradients slight over the Continent, moderate over the British Isles and North Sea. Barometer fallen over the Baltic, rising elsewhere, most on our NW. coasts.

## TEMPERATURE

Highest, 57° at Dublin, 55° at Birmmgham, 53° at Nice, Sicily, Valencia, Anderson, and the Hilder, 50° at Altdorf, Wiesbaden, Wiesbaden, and Stromsø.  
 Lowest, 35° at Munich, 37° at Hafnarfjörður, 38° at Wiesbaden, London and Oxford, 45° at Paris.  
 It had fallen considerably over South Germany, and also at our extreme northern stations during the twenty-four hours.

## WIND

NE<sup>2</sup> moderate over Scandinavia, the North Sea, Channel and British Isles.  
 SW<sup>2</sup> to NW<sup>2</sup> over Southwestern Europe, (blowing a hard gale from W. at Biarritz.)  
 Very variable over France, Germany, and apparently over the north of Italy also.

## WEATHER

Fine or fair at present except at our northernmost stations, the Hilder and Belfast, but cloudy in some localities, and foggy over Central England. Showers of rain have occurred in most places, and thunder and lightning in many.

## SEA

High at Biarritz, rather rough on several exposed parts of our coast, moderate or slight elsewhere.

## PROBABLE CHANGES IN SYSTEM NOW PREVALENT

A continuation of N<sup>2</sup> to NE<sup>2</sup> winds over our islands and the German Ocean is probable with some local showers, but over the Continent cold unsettled showery weather is probable with thunder and lightning in many places.

## FORECASTS

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

### DISTRICTS.

### FORECASTS.

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

N<sup>2</sup> breezes, light; fair.

-----D°-----D°-----D°-----

Same as N°5

Same as N°5

Same as N°5

NE<sup>2</sup> breezes, moderate; fair generally, but with some local showers.

### DISTRICTS.

### FORECASTS.

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

NE<sup>2</sup> breezes, light; fine, hazy.

-----D°-----D°-----D°-----

Same as N°5

NE<sup>2</sup> breezes, fresh to moderate; fine.

-----D°-----D°-----D°-----

### WARNINGS

NONE ISSUED.

Note.—The South Cone, point downwards (V) means that gales, or strong winds, are probable, at first from the Southward (from S.E. round by S. to N.W.) Should it appear likely that a gale beginning from between W. and N.W. is likely to easter towards N. or N.E., the North Cone is hoisted in preference to the South Cone.  
 The North Cone, point upwards (A) means that gales, or strong winds, are probable, at first from the Northward (from N.W. round by N. to S.E.) Should it appear likely that a gale beginning from between E. and S.E. is likely to easter 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 ...	29.85	59	51	E 2	O	3	Holyhead ...	29.54	52	48	NE 2	bc	1
Sumburgh Head ...	29.88	58	52	NE 1	c	3	Valencia ...	29.59	50	49	20 0	r	1
Stornoway ...	29.81	57	56	E 5	bc	4	Scilly ...	29.47	54	50	H 4	c	5
Aberdeen ...	29.78	55	53	NE 4	bc	5	Dungeness ...	29.42	53	51	SE 3	c	3
Shields ...	29.57	55	52	NE 2	c	3	London ...	29.43	55	47	H 1	c	*
Ardrossan ...	29.63	58	53	NE 4	bc	2	Yarmouth ...	29.37	53	50	ENE 5	c	4
Malin Head ...	29.65	56	51	ENE 4	b	3	Jersey ...	29.44	56	49	E 2	bc	2
Mullaghmore ...	29.60	54	51	NE 6	c q/p	5	Rochefort ...	29.40	57	51	W 5	o	6
Belmullet ...	29.64	55	52	N 5	c q/p	*							

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

Yesterday morning's reports showed that pressure varied from about 30 ins. over Algeria, Asiatic Turkey, Central Russia, and Lapland to about 29.3 ins. over Brittany, 29.4 ins. over the Irish Sea, and 29.5 ins. over the Gulf of Genoa. Gradients were moderate to slight and the barometer was rising over the more northern districts and falling in the south. The winds were consequently moderate from the E<sup>nd</sup> (SE to NE) over all the northern countries, and were accompanied by showers in some places, but fair weather over Russia and the Baltic, while over the more southern parts of Europe the wind varied between SW and NW, and the weather was cloudy, wet and thundery, with snow at Pic du Midi. Thunder and lightning had occurred over most parts of Western Europe on the previous night. Temperature varied from about 77° over the southern part of the Mediterranean and between 55° and 60° in the south of France to somewhat below 50° over Russia, to less than 40° over the north of and Central Ireland, and to as low as 34° over some of the eastern counties of England. The highest individual values were 77° at Malta, 73° at Constantinople, 72° at Algiers, Brindisi, and Cagliari, 69° at Legna, 63° at Barcelona and Lisbon, and 54° at Stornoway and Skudesnaes. The lowest were 34° at Cambridge, 38° in London and at Oxford, 39° at Larne, 44° at Lyons, 45° at Ulsborg, and 46° at Haparanda.

Later in the day the distribution of pressure over Western Europe became less complex, and the weather over the British Islands improved - except in the southeast where rain fell 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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# CORRECTIONS AND ADDITIONS TO THE REPORTS FOR    SEPT<sup>r</sup>    1887

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

RECORDS 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.		
2	Corunna...	*	*	*	*	*	30.04	+05	66	62	0	NW	3	m	4	75	57	0.08	
-	Lisbon...	*	*	*	*	*	30.02	-01	65	62	+1	N	7	0	7	73	64	-	
5	Corunna...	*	*	*	*	*	29.9	-10	69	68	+5	S	4	0	4	73	61	-	
6	Corunna...	*	*	*	*	*	29.97	-01	69	67	0	S	5	bc	4	75	64	-	
8	Paris...	30.02	60	W	3	c	30.33	+54	51	-	-8	N	1	c	*	70	46	0.28	
-	Brest...	30.15	59	NW	5	c	30.35	?	53	-	-5	N	4	0	7	73	50	-	
-	Nice...	29.99	69	SW	1	r	30.02	+05	70	-	0	E	1	0	0	77	57	-	
-	Perpignan...	30.11	62	W	3	r	30.19	+30	60	-	-10	NW	3	r	*	78	58	0.79	
-	Corunna...	*	*	*	*	*	30.32	+21	64	-	-2	NE	3	bc	8	72	54	-	
9	Biarritz...	30.22	67	E	4	bc	30.26	-02	57	-	-2	E	1	b	1	70	54	-	
10	Corunna...	*	*	*	*	*	30.16	-07	62	58	+1	NE	1	b	7	72	52	-	
13	Corunna...	*	*	*	*	*	30.04	?	60	59	?	NE	1	0	4	70	52	-	
14	Belfort...	29.89	54	W	3	r	30.02	+18	51	-	-4	W	1	bc	*	59	36	0.20	
15	Corunna...	*	*	*	*	*	30.12	?	60	60	?	NE	1	c	1	70	54	-	
19	Belfort...	30.14	65	E	1	bc	30.22	?	54	-	?	NW	4	c	*	73	42	0.67	
-	Corunna...	*	*	*	*	*	30.21	+14	71	66	+1	ENE	1	bc	1	79	59	-	
21	Corunna...	*	*	*	*	*	30.21	+16	61	60	-4	NNE	5	0	4	72	59	-	
22	Corunna...	*	*	*	*	*	29.86	-35	64	59	+3	NNE	1	b	3	68	?	-	
23	Corunna...	*	*	*	*	*	30.02	+16	67	65	+3	NE	1	r	1	75	59	-	
27	Corunna...	*	*	*	*	*	29.94	-09	58	57	-2	NW	1	r	2	66	52	0.08	
28	Corunna...	*	*	*	*	*	29.82	-12	59	56	+1	SW	8	r	6	64	54	0.08	
30	Corunna...	*	*	*	*	*	29.75	+05	53	51	-5	SSW	5	0	6	61	50	0.35	



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 ...	29.753 29.813 29.834	49.8 50.2 51.1	43.7 43.9 45.2	53.9 55.9 55.3	48.8 49.9 50.3	34 29 36	24 <sup>th</sup> 28 <sup>th</sup> 28 <sup>th</sup>	60 63 61	1 <sup>st</sup> 1 <sup>st</sup> 1 <sup>st</sup>	0.320 0.325 0.363
1. SCOTLAND, E.	{ Nairn... Aberdeen ... Leith ...	29.833 29.825 29.841	50.5 51.2 52.1	46.3 45.3 47.1	57.2 58.5 60.5	51.8 51.9 53.8	32 30 36	28 <sup>th</sup> 28 <sup>th</sup> 28 <sup>th</sup>	68 67 69	1 <sup>st</sup> 3 <sup>rd</sup> 1 <sup>st</sup>	0.311 0.325 0.327
2. ENGLAND, N.E.	{ Shields ... York ... Spurn Head ...	29.847 29.880 29.873	51.9 50.4 53.3	46.6 45.0 49.1	58.1 59.8 58.7	52.4 52.4 53.9	35 32 43	28 <sup>th</sup> 28 <sup>th</sup> 29 <sup>th</sup>	67 67 67	1 <sup>st</sup> 3 <sup>rd</sup> 3 <sup>rd</sup>	0.319 0.315 0.341
3. ENGLAND, E.	{ Yarmouth ... Cambridge ...	29.898 29.929	54.1 52.1	49.1 45.4	59.7 62.7	54.4 54.1	44 32	29 <sup>th</sup> 29 <sup>th</sup>	67 70	3 <sup>rd</sup> +4 <sup>th</sup> +6 <sup>th</sup> 3 <sup>rd</sup>	0.351 0.324
4. MIDLAND COUNTIES.	{ Loughborough ... Oxford ...	29.921 29.944	50.2 50.9	45.0 46.4	61.6 60.8	50.3 53.6	31 34	28 <sup>th</sup> +29 <sup>th</sup> 28 <sup>th</sup> +29 <sup>th</sup>	68 67	3 <sup>rd</sup> 4 <sup>th</sup> +6 <sup>th</sup>	0.312 0.317
5. ENGLAND, S.	{ London ... Dungeness ... Hurst Castle...	29.948 29.927 29.955	52.5 54.7 54.9	48.0 49.7 48.7	62.1 62.0 61.7	55.1 55.9 55.2	35 37 38	29 <sup>th</sup> 29 <sup>th</sup> 25 <sup>th</sup>	69 66 66	6 <sup>th</sup> 1 <sup>st</sup> +3 <sup>rd</sup> +4 <sup>th</sup> +6 <sup>th</sup> 20 <sup>th</sup>	0.326 0.369 0.382
6. SCOTLAND, W.	Ardrossan ...	29.854	52.9	47.1	59.2	53.2	39	28 <sup>th</sup>	63	1 <sup>st</sup> +23 <sup>rd</sup>	0.333
7. ENGLAND, N.W.	{ *Hawes Junction ... Barrow-in-Furness ... Liverpool Obs* (Bidston) Holyhead ...	28.640 29.871 29.892 29.899	47.4 52.7 52.9 54.7	43.0 49.1 46.5 50.8	54.3 58.7 58.8 49.3	48.7 53.9 54.2 55.1	30 41 43 44	28 <sup>th</sup> 28 <sup>th</sup> 13 <sup>th</sup> +28 <sup>th</sup> +29 <sup>th</sup> 29 <sup>th</sup>	59 63 65 63	1 <sup>st</sup> +5 <sup>th</sup> 1 <sup>st</sup> +3 <sup>rd</sup> 3 <sup>rd</sup> 3 <sup>rd</sup> +16 <sup>th</sup>	0.308 0.336 0.318 0.352
8. ENGLAND, S.W.	{ Pembroke ... Prawle Point ...	29.931 29.969	54.3 55.6	51.0 49.7	58.7 60.9	54.9 55.3	42 38	29 <sup>th</sup> 29 <sup>th</sup>	62 66	2 <sup>nd</sup> +3 <sup>rd</sup> +8 <sup>th</sup> 7 <sup>th</sup> +20 <sup>th</sup>	0.376 0.379
9. IRELAND, N.	{ Malin Head ... Donaghadee ... Mullaghmore ... Belmullet ...	29.865 29.883 29.908 29.933	52.9 52.4 53.2 53.6	50.0 48.1 49.2 50.1	56.4 59.2 59.1 58.5	53.2 53.7 54.2 53.2	43 38 42 43	19 <sup>th</sup> 28 <sup>th</sup> 19 <sup>th</sup> +27 <sup>th</sup> 28 <sup>th</sup> +29 <sup>th</sup>	61 65 64 63	1 <sup>st</sup> +24 <sup>th</sup> 3 <sup>rd</sup> 3 <sup>rd</sup> 28 <sup>th</sup>	0.348 0.355 0.384 0.339
10. IRELAND, S.	{ Parsonstown ... Valencia ... Roche's Point ...	29.939 29.971 29.949	50.1 55.9 54.4	44.5 50.3 49.3	59.6 62.0 60.4	52.1 56.2 54.9	36 43 43	29 <sup>th</sup> 20 <sup>th</sup> +21 <sup>st</sup> 28 <sup>th</sup>	66 67 63	3 <sup>rd</sup> 19 <sup>th</sup> 2 <sup>nd</sup> +3 <sup>rd</sup> +5 <sup>th</sup> +11 <sup>th</sup> +25 <sup>th</sup>	0.318 0.350 0.351
CHANNEL ISLANDS.	{ Scilly (St. Mary's) ... Jersey (Noirmont) ...	29.964 29.975	54.0 58.6	53.4 53.6	60.3 63.7	56.9 58.7	45 43	29 <sup>th</sup> 25 <sup>th</sup> +29 <sup>th</sup>	65 69	4 <sup>th</sup> +5 <sup>th</sup> +19 <sup>th</sup> 3 <sup>rd</sup> +7 <sup>th</sup>	0.414 0.375

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

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



STATIONS in the BRITISH ISLANDS during the Month of SEPTEMBER 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.																	
89	80	3.13	0.76	9 <sup>th</sup>	24	0	0	0	2	17	1	2	4	2	1	1	4	6	4	6
90	77	2.13	0.38	2 <sup>nd</sup>	23	0	0	2	2	17	1	4	1	1	3	2	2	3	12	2
96	91	3.73	0.66	9 <sup>th</sup>	18	0	1	0	0	25	2	2	1	8	1	1	2	3	7	5
85	6.3	2.93	1.03	4 <sup>th</sup>	17	0	0	0	5	11	0	1	0	4	0	1	10	7	1	6
86	6.9	3.39	1.20	1 <sup>st</sup>	18	1	1	5	5	14	1	8	2	0	1	0	4	5	7	3
83	6.3	3.40	0.46	6 <sup>th</sup>	20	0	0	2	7	11	0	1	0	1	3	1	4	14	4	2
83	7.9	4.98	1.62	6 <sup>th</sup>	20	0	0	2	2	15	2	2	2	1	1	1	9	5	7	2
86	6.1	2.65	0.71	6 <sup>th</sup>	19	0	0	0	8	11	0	4	2	1	1	5	7	5	4	1
83	5.1	2.03	0.47	28 <sup>th</sup>	21	1	0	3	3	3	0	6	3	0	0	3	8	6	4	0
83	6.5	2.30	0.50	28 <sup>th</sup>	22	0	0	2	1	4	1	5	5	0	0	0	5	10	5	0
83	6.9	1.68	0.28	26 <sup>th</sup>	17	0	0	1	6	14	1	7	1	0	0	3	12	4	3	0
86	7.2	2.28	0.45	16 <sup>th</sup>	16	0	0	1	4	16	1	2	3	0	0	0	7	10	5	3
85	6.7	2.37	0.54	16 <sup>th</sup>	16	0	0	1	10	17	0	2	5	0	0	3	9	6	4	1
82	7.0	1.78	0.35	1 <sup>st</sup>	16	0	0	0	5	14	2	4	5	1	0	2	6	7	4	1
87	6.6	3.24	0.77	4 <sup>th</sup>	18	0	0	0	3	7	2	3	9	2	0	1	4	6	5	0
89	6.5	3.70	0.83	18 <sup>th</sup>	17	0	0	1	2	5	3	6	5	1	1	1	2	9	5	0
83	5.3	3.51	0.55	1 <sup>st</sup>	19	0	0	0	10	9	2	2	5	4	0	1	3	5	5	5
94	8.3	7.14	0.92	9 <sup>th</sup>	22	0	0	1	3	23	0	4	2	2	6	6	5	1	3	1
84	6.8	3.22	0.73	9 <sup>th</sup>	18	0	0	1	4	14	4	7	7	1	2	4	3	3	3	0
88	6.7	4.01	0.94	26 <sup>th</sup>	19	0	1	0	7	14	1	1	3	2	2	6	8	6	2	0
83	6.3	2.27	0.48	1 <sup>st</sup>	20	0	0	1	5	8	1	4	3	0	0	1	7	7	3	5
89	6.3	2.05	0.79	1 <sup>st</sup>	12	0	0	0	4	7	4	2	7	4	0	2	5	4	6	0
85	5.6	2.39	0.44	16 <sup>th</sup>	17	0	0	0	5	8	2	4	6	2	0	3	6	4	5	0
87	7.6	3.28	0.51	5 <sup>th</sup>	18	0	0	0	3	17	1	7	3	1	0	2	6	2	9	0
90	6.0	3.30	1.25	1 <sup>st</sup>	18	0	0	2	6	10	3	3	6	1	1	2	6	10	1	0
83	6.2	4.72	1.33	1 <sup>st</sup>	18	0	1	0	6	4	12	4	2	5	3	4	2	3	7	0
82	7.7	4.85	1.02	1 <sup>st</sup>	16	0	0	0	4	17	1	5	2	6	3	2	3	2	7	0
88	6.8	1.62	0.56	1 <sup>st</sup>	15	0	0	0	7	14	0	2	1	0	1	2	4	1	1	18
80	6.1	3.32	0.96	1 <sup>st</sup>	16	0	0	1	8	12	3	4	6	1	1	1	3	4	5	5
83	5.5	2.60	1.08	3 <sup>rd</sup>	13	0	0	0	9	9	3	6	1	4	1	0	6	6	6	0
89	7.3	3.17	0.84	1 <sup>st</sup>	18	0	1	1	3	13	4	3	5	5	0	1	6	4	4	2
76	5.8	1.61	0.28	1 <sup>st</sup>	15	0	0	0	5	7	3	0	8	2	1	2	5	8	4	0

Barometric Observations at this Station are not corrected for altitude.



## 2. CORRECTIONS

DATE.	STATIONS.	† YESTERDAY EVENING.					8 A.M. TO DAY.								PAST 24 HOURS.			
		Barometer at 32° F. and Sea Level.	Temp. in Shade.	WIND.		Weather.	BAROMETER.		SHADE TEMP.			WIND.		Weather.	Sea. (0 to 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.	
1	Shields . . . .	-	-	-	-	-	-	-	-	-	-	-	-	-	-	66	-	-
2	Ardrossan . . .	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.86
3	Shields 2pm	-	-	-	-	-	-	-	62	-	-	-	-	-	-	-	-	-
3	Stornoway	-	-	-	-	-	-	-	-	-	-	-	-	-	-	57	-	-
5	Sumburgh Hd	-	-	-	-	-	-	-	-	51	-	-	-	-	-	-	-	-
6	Ardrossan . . .	29.44	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
6	Ardrossan 2pm	-	-	-	-	-	29.23	-	-	-	-	-	-	-	-	-	-	-
6	Mullaghmore 2pm	-	-	-	-	-	-	-	-	-	-	-	-	3	-	-	-	-
8	Sumburgh Hd	-	-	-	-	-	29.81	+10	-	-	-	-	-	-	-	-	-	-
9	Spurn Head	-	-	-	-	-	-	-	55	-	0	-	-	-	-	-	-	0.82
9	Valencia . . . .	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	51	-
10	Belmullet . . .	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
11	Donaghadee	-	-	-	-	-	29.66	-	-	-	-	-	-	-	-	-	-	-
12	York . . . . .	-	-	-	-	-	-	-	-	46	-	-	-	-	-	-	-	-
13	Liverpool . . . .	-	-	-	-	-	-	-	-	-	-	8	-	-	-	-	-	-
14	Malin Head . .	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	60	-
14	Holyhead . . . .	-	-	-	-	-	29.92	-	-	-	-	-	-	-	-	-	-	-
14	Parsonstown . .	-	-	-	-	-	-	-	-	47	-	-	-	-	-	-	-	-
15	Leith . . . . .	29.78	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
15	Liverpool . . . .	-	-	-	-	-	-	-	-	-	-	0	-	-	-	-	-	-
15	Hurst Castle . .	29.93	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
16	Loughborough	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	No rain
17	Ardrossan	-	-	-	-	-	30.19	-	-	-	-	-	-	-	-	-	-	-
18	Ardrossan	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.04
19	Belmullet	-	-	-	-	-	-	-	-	-	-	-	-	-	-	62	-	-
19	Mullaghmore 2pm	-	-	-	-	-	-	-	-	53	-	-	-	-	-	-	-	-
23	Roche's Point	-	55	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
23	Cambridge	-	-	-	-	-	-	-	-	-	-	-	-	-	-	65	-	-
24	Prawle Point	-	-	-	-	-	30.44	+08	-	-	-	-	-	-	-	-	-	-
24	Dungess	-	-	-	-	-	-	-	-	-	-	-	-	2	-	-	-	-
26	Barron. in. Sur.	?30.08	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
27	Garmouth	29.60	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
28	Shields . . . .	-	-	-	-	-	-	-	-	-	-	-	-	-	-	54	-	-
29	Stornoway . .	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	41	-
30	Scilly . . . . .	-	-	-	-	-	?29.70	+34	-	-	-	-	-	-	-	-	-	-