

METEOROLOGICAL OFFICE,  
**LONDON.**

---

DAILY WEATHER REPORTS.

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1<sup>ST</sup> JULY — 31<sup>ST</sup> DECEMBER,  
1889.

*See Reg. Lond.*



# DAILY WEATHER REPORT.

July to December 1889.





# DAILY WEATHER REPORT.

for Sunday 1<sup>st</sup> SEPTEMBER 1889  
 Issued by the Meteorological Office, 63, Victoria Street, London. R. H. SCOTT, Secretary.

STATIONS.		YESTERDAY EVENING.					9 A.M. TO DAY.										PAST 24 HOURS.		
		Barometer at 32° F. and Sea Level.	Temp. in Shade.	WIND.		Weather.	BAROMETER.		SHADE TEMP.			WIND.		Weather.	Sea (0 to 2).	SHADE TEMP.		Amount of Rainfall.	
				Direc.	Force. (0 to 12.)		Reading at 32° F. and Sea Level.	Difference from 8 a.m. yesterday.	Dry.	Wet.	Difference from 8 a.m. yesterday.	Direc.	Force. (0 to 12.)			Max.	Min.		
SCANDINAVIA.	Haparanda ...	29.64	52	W	2	b	29.74	+ 03	51	45	- 5	N	4	b	*	57	50	—	
	Hernösand ...	29.96	50	Z	0	b	30.01	+ 11	52	47	- 1	W	2	b	*	66	45	—	
	Stockholm ...	30.00	50	Z	0	b	30.06	+ 07	55	53	- 6	Z	0	b	*	70	65	—	
	Wisby ...	30.02	59	SW	4	b	30.06	+ 02	59	57	0	N	2	b	*	66	55	—	
	Bodö ...	29.76	48	W	8	r	29.88	+ 33	48	46	- 2	WSW	4	c	2	54	41	0.08	
	Christiansund	30.06	51	WSW	6	c	30.13	+ 18	50	48	- 1	WNW	2	f	3	52	45	0.16	
	Skudesnaes ...	30.21	54	NW	1	r	30.20	+ 02	55	53	- 1	SE	2	o	3	60	52	0.04	
	Christiania Fjord (Færder)	30.06	61	W	4	b	30.10	+ 06	55	49	0	NNW	3	b	2	61	54	—	
	Skagen (The Scaw)	30.09	55	Z	0	b	30.10	+ 03	59	54	+ 1	NNE	2	b	1	63	50	—	
	Fanö ...	30.18	53	NNW	2	b	30.18	+ 03	57	54	- 2	NW	3	b	*	64	50	—	
BRITISH ISLANDS.	Sumburgh Head	30.11	53	WSW	1	o	30.19	+ 08	51	50	- 3	Z	0	o	1	58	46	0.05	
	Stornoway ...	30.16	57	W	2	c	30.21	+ 11	53	53	- 2	Z	0	o	2	61	42	0.09	
	Wick ...	30.16	56	Z	0	o	30.23	+ 08	55	52	+ 1	W	1	b	1	61	46	0.12	
	Nairn ...	30.18	57	WSW	1	b	30.22	+ 07	55	52	0	Z	0	b	0	66	46	—	
	Aberdeen ...	30.20	57	S	1	c	30.26	+ 05	57	53	+ 3	NW	1	b	1	64	46	—	
	Leith ...	30.19	57	W	2	b	30.27	+ 05	55	53	- 1	Z	0	b	*	69	45	—	
	Shields ...	30.21	55	E	1	f	30.24	+ 04	55	55	+ 1	Z	0	f	1	58	52	—	
	Spurn Head ...	30.19	57	NE	3	b	30.23	+ 04	59	57	- 1	ENE	2	c	3	62	55	—	
	York ...	30.21	61	E	1	c	30.26	+ 04	57	56	- 1	NE	1	o	*	67	54	—	
	Loughborough	30.17	66	NNE	2	c	30.24	+ 03	58	57	+ 2	ESE	1	ag	*	76	50	—	
GERMANY.	Ardrossan ...	30.22	60	NW	3	b	30.23	+ 01	57	54	+ 4	Z	0	b	0	62	47	—	
	Malin Head ...	30.23	58	NW	1	b	30.22	+ 01	56	54	+ 2	SE	1	ov.	0	61	52	—	
	Mullaghmore ...	30.24	60	WNW	2	b	30.22	- 02	54	52	0	E	4	ov.	2	63	51	—	
	Belmullet ...	30.24	59	NW	1	c	30.20	- 03	55	54	0	E	1	o	*	63	52	—	
	Donaghadee ...	30.24	57	NNE	3	b	30.24	- 00	56	55	+ 3	NNE	2	m	0	60	51	—	
	Barrow-in-Furness	30.15	61	NW	2	b	30.21	- 02	58	57	+ 1	NE	1	b	*	64	55	—	
	Liverpool (Bidston)	30.19	59	WNW	1	o	30.22	+ 01	55	54	- 3	SE	2	o	2	63	54	—	
	Holyhead ...	30.20	57	NNE	3	b	30.18	- 03	60	58	+ 3	Z	0	m	0	60	55	—	
	Parsonstown ...	30.21	65	Z	0	b	30.14	- 11	54	52	+ 6	SE	1	b	*	67	41	—	
	Valencia ...	30.21	61	NNW	2	b	30.12	- 12	58	55	+ 1	ENE	1	b	1	68	47	—	
FRANCE AND NETHERLANDS.	Roche's Point...	30.21	61	E	1	b	30.15	- 08	58	55	+ 2	E	2	b	3	64	52	—	
	Pembroke (St. Ann's Hd.)	30.16	59	N	3	b	30.15	- 04	58	57	- 1	E	3	m	2	65	55	—	
	Scilly ...	30.13	62	NNE	5	o	30.08	- 08	62	61	+ 3	ESE	4	cm	4	63	58	—	
	Prawle Point ...	30.14	65	ESE	1	c	30.15	- 01	62	60	0	NE	3	cm	2	68	59	0.01	
	Jersey (St. Aubin's)	30.13	66	SSE	2	o	30.13	- 01	68	62	+ 4	E	3	b	3	69	60	0.01	
	Hurst Castle ...	30.14	64	W	1	c	30.19	+ 03	60	59	- 1	ENE	5	m	1	71	59	—	
	Dungeness ...	30.09	67	WSW	1	c	30.14	+ 02	62	60	- 3	NE	3	m	2	74	60	—	
	London ...	30.12	68	E	1	c	30.20	+ 05	59	57	0	NE	2	og	*	74	58	—	
	Oxford ...	30.16	63	N	1	b	30.23	+ 06	56	55	- 3	NE	3	omv	*	78	55	—	
	Cambridge ...	30.16	63	NE	1	b	30.23	+ 05	61	58	+ 5	NE	1	o	*	78	55	—	
PENINSULA.	Yarmouth ...	30.17	63	NE	2	b	30.21	+ 05	61	59	- 2	ENE	3	b	3	65	58	—	
	Cuxhaven ...	30.16	59	N	3	b	30.19	+ 05	57	55	- 6	NNE	3	b	*	65	56	—	
	Berlin ...	30.12	67	Z	0	b	30.12	- 07	62	59	+ 1	NE	1	o	*	75	57	—	
	Wiesbaden ...	*	*	*	*	*	30.11	- 08	63	60	+ 4	Z	0	b	*	79	57	—	
	Munich ...	30.18	63	Z	0	b	30.17	- 06	60	58	+ 1	W	1	b	*	75	50	—	
	The Helder ...	30.15	62	NE	3	c	30.22	+ 07	60	57	- 2	NE	2	b	3	64	59	—	
	Brussels (8 a.m.)	*	*	*	*	*	30.15	- 00	62	61	- 3	ENE	1	o	*	80	62	—	
	Cape Gris Nez	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	—	
	Paris ...	30.01	72	NNW	1	b	30.14	- 03	65	61	+ 9	NNE	2	b	*	?	86	—	
	Brest ...	?	78	Z	0	b	?	?	67	64	+ 2	E	2	b	1	90	61	—	
CORUNNA.	Lorient ...	30.10	76	E	1	b	30.08	- 03	64	59	- 7	ENE	3	b	2	82	61	—	
	Rochefort ...	30.08	82	E	4	b	30.09	- 07	67	66	0	SSE	2	m	2	97	61	—	
	Belfort ...	30.07	65	SE	1	b	30.11	- 02	61	52	+ 3	SE	2	b	*	74	56	—	
	Lyons ...	30.06	77	ENE	1	b	30.14	- 02	62	57	0	NE	1	b	*	84	55	—	
	Nice ...	30.10	68	SW	1	b	30.13	+ 01	65	62	+ 1	NE	2	o	0	77	61	—	
	Perpignan ...	30.08	68	N	1	c	30.14	+ 01	64	63	+ 3	W	1	o	*	78	61	—	
	Biarritz ...	30.03	69	NNW	5	o	30.08	+ 03	68	66	- 6	ENE	2	o	2	93	66	—	
	Corunna ...	30.09	68	*	*	*	30.08	?	65	64	- 1	W	1	o	0	77	52	—	
	Lisbon ...	30.09	68	NW	4	b	30.09	- 04	64	61	- 2	N	3	b	?	72	61	—	

For Explanation of Columns, see bottom of p 4.

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



# WEATHER CHARTS

for 8 a.m. on

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

1889.

## BAROMETER, WIND AND 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:

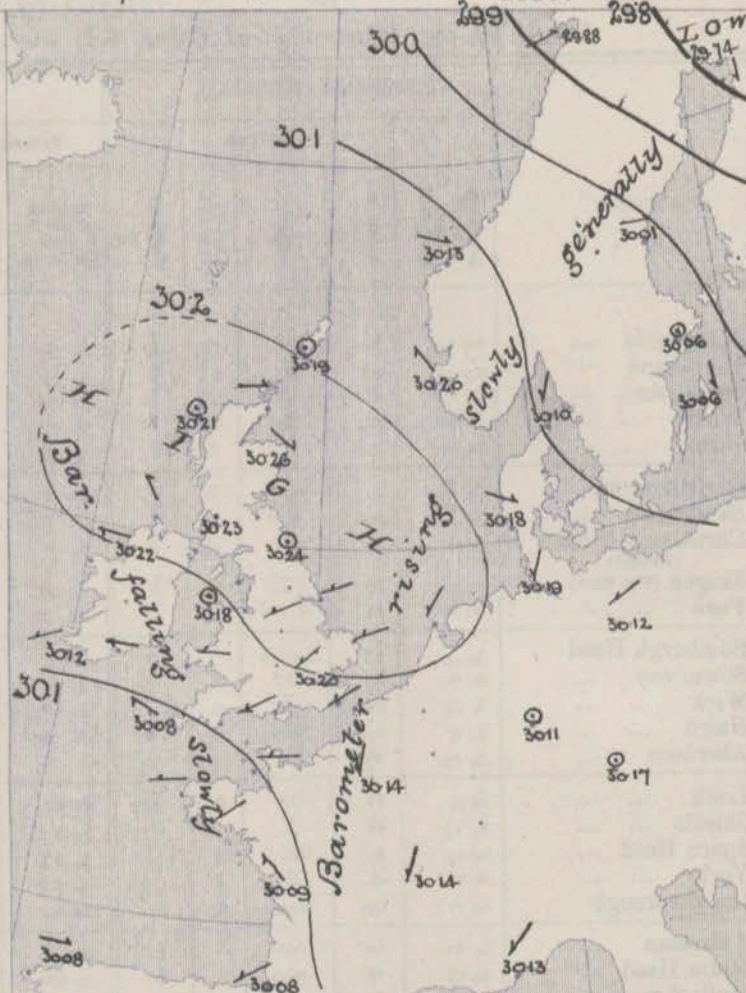
— = Rough. — = High.

## MEAN HEIGHT OF THE BAROMETER

at 8.0 a.m. for the month of September.

During the 15 Years: 1871–1885.

STATIONS.	MEAN READINGS.
Sumburgh Head .....	29.766
Stornoway .....	29.780
Wick .....	29.793
Nairn .....	29.809
Aberdeen .....	29.819
Leith .....	29.846
Shields .....	29.869
York .....	29.906
Loughborough .....	29.924
Ardrossan .....	29.850
Donaghadee .....	29.869
Holyhead .....	29.894
Liverpool .....	29.899
Parsonstown .....	29.904
Valencia .....	29.917
Roche's Point .....	29.913
Pembroke .....	29.913
Sally .....	29.943
Jersey .....	29.955
Hurst Castle .....	29.960
Dover .....	29.941
LONDON .....	29.945
Oxford .....	29.935
Cambridge .....	29.931
Yarmouth .....	29.916



## 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.

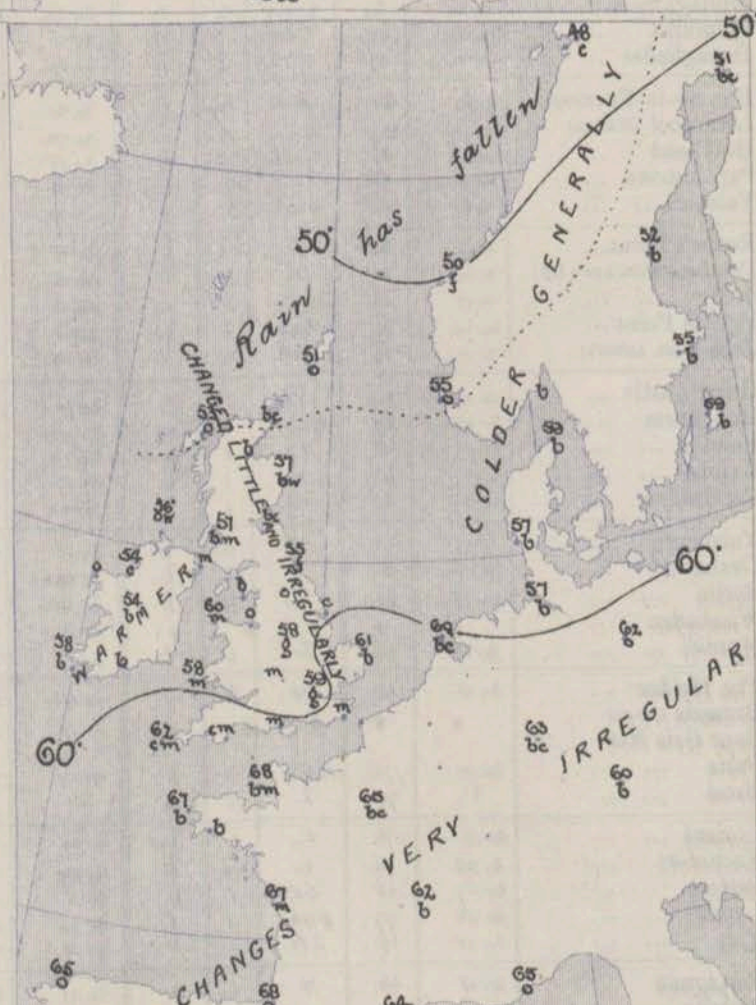
**RAINFALL**—A dotted line separates the districts in which rain has fallen from those where there has been none. Falls of 0.5 in. or more, are quoted in figures.

### 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	46.3	50.9	49.2	3.46
Stornoway .....	56.1	45.7	51.1	49.8	4.13
Wick .....	57.6	45.5	51.8	49.9	2.66
Nairn .....	59.0	46.8	51.2	48.8	2.73
Aberdeen .....	59.2	46.7	52.1	49.8	3.22
Leith .....	62.2	47.6	53.2	50.8	2.47
Shields .....	59.9	49.3	53.1	51.1	2.58
York .....	63.3	47.3	52.8	51.0	2.98
Loughborough .....	65.0	47.9	54.3	52.4	3.06
Ardrossan .....	59.7	49.6	53.5	51.3	3.87
Donaghadee .....	59.6	48.8	53.3	52.1	3.22
Holyhead .....	60.6	52.8	55.7	53.5	3.35
Liverpool .....	61.2	50.9	54.5	51.9	3.66
Parsonstown .....	61.6	47.5	53.1	51.1	3.49
Valencia .....	61.7	51.5	56.3	53.9	4.87
Roche's Point .....	61.9	51.0	55.4	53.2	4.39
Pembroke .....	60.2	53.1	56.2	53.8	3.80
Sally .....	61.8	54.8	58.4	56.2	3.69
Jersey .....	65.2	54.9	59.8	57.1	3.51
Hurst Castle .....	64.2	52.2	57.2	55.8	3.35
Dover .....	62.9	53.0	57.9	55.3	2.86
LONDON .....	66.3	49.4	55.9	53.6	2.59
Oxford .....	63.8	49.1	54.2	52.3	2.91
Cambridge .....	65.5	48.1	54.4	52.9	2.48
Yarmouth .....	62.0	51.1	56.2	54.4	3.17

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





# GENERAL SITUATION AT 8 A.M.

## PRESSURE

Highest, 30.2 in. and more, in an anticyclone covering all the northern and eastern part of the Kingdom.  
Lowest, About 30.0 in. over the Bay of Biscay— and about 29.7 in. in extreme north of Russia.  
Gradients slight. Barometer rising a little in the north and east, falling slightly in the southwest.

## TEMPERATURE

Highest, 68° at Biarritz and Jerez, 67° at Rochefort and Brest, 65° at Comma and Paris, 62° at Lyons, Brussels and Madrid.  
Lowest, 48° at Bodo, 51° at Haparanda and Sumburg, 44°, 52° at Helsingfors, 53° at Stockholm and 54° at Carlskrona.  
Daily maxima recorded yesterday were as high as 90° to 97° in the west of France, 75° to 79° over Germany, 70° to 79° over England.

## WIND

Moderate or light from NW<sup>nd</sup> over Scandinavia, — N<sup>th</sup> in Denmark.  
NE<sup>ly</sup> over Holland, the north of France, and south and southeast of England.  
E<sup>ly</sup> at our western stations and over the Bay of Biscay — Calm in Scotland.

## WEATHER

Fine as a whole — but gloomy over the inland parts of England and on our extreme northwest coast, cloudy in Norway.  
Haze or fog prevails in many parts of the United Kingdom and the Channel.  
Rain has fallen in Norway and the north of Scotland.

## SEA

Moderate to slight in the southwest and southeast, smooth elsewhere.

## PROBABLE CHANGES IN SYSTEM NOW PREVALENT

# FORECASTS

For the 24 hours ending at NOON on 2<sup>nd</sup> SEPT<sup>r</sup> 1889.

## DISTRICTS.

## FORECASTS.

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

NONE ISSUED.

## DISTRICTS.

## FORECASTS

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

NONE ISSUED.

## WARNINGS

NONE ISSUED.

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



# YESTERDAY'S 2 P.M. REPORTS.

Bar:								Ther:		Wind		Wea:	Sea	Bar:								Ther:		Wind		Wea:	Sea					
								D	W	D	F												D	W	D	F						
Skudesnaes ...	30.22	60	54	WNW	4	b	3	Holyhead ...								30.22	59	50	N	3	b	2										
Sumburgh Head ...	30.18	55	53	WSW	1	o	2	Valencia ...								30.24	67	61	NW	1	b	2										
Stornoway ...	30.14	61	59	SW	3	c	3	Scilly ...								30.14	62	61	NNE	5	bm	4										
Aberdeen ...	30.14	63	57	SSE	2	b	2	Jersey ...								30.13	66	64	SSE	2	o	1										
Shields ...	30.22	57	56	E	2	o	2	Dungeness ...								30.11	68	63	WSW	2	m	1										
Ardrossan ...	30.22	60	55	NW	3	b	2	London ...								30.11	77	67	L	0	b	*										
Malin Head ...	30.23	58	56	NW	1	b	1	Yarmouth ...								30.16	65	62	NE	3	b	2										
Mullaghmore ...	30.24	60	56	NNW	1	bv	1	Rochefort ...								30.12	72	78	ESE	3	b	2										
Belmullet ...	30.26	63	57	SW	1	b	*																									

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

The reports for yesterday morning showed that pressure exceeded 30 ins. over the whole of France, Germany, Denmark, the North Sea and British Isles, and that it exceeded 30 ins. over Ireland, the Irish Sea, the north of England and west of Scotland and also over Central Russia. From these regions it decreased — in a northerly direction, to 29.6 ins. and less over the western part of Lapland — and in a southerly direction, to 29.8 ins. and less, in a depression lying over the southwest of Russia. The wind was strong to a gale from between SW and W. over the northern half of Norway, and light to moderate from about the same quarter over the Baltic, the south of Norway and the north of Scotland; in the west of France it was light from the E<sup>nd</sup>, and in all other districts very light and variable. The weather was rainy in the far north, and rather unsettled in the southeast, with rain at Odessa; over the British Isles, Germany, France, and the Mediterranean it was fine, but fog and haze prevailed over and in the neighbourhood of the British Isles. Temperature was still low over Central and Eastern Europe, and rather so over the Mediterranean, but was rising in the west; the highest morning values were 75° at Brindisi and Barcelona, 74° at Rhenitz, 73° at La Felle, 71° at Trieste, Palermo, Genoa, Madrid and Lorient, 70° at Bilbao, Algiers and Lifford; at Nice it was 64° only. The lowest were 48° at Röö, 49° at Kaspie, 50° at Röö, 53° at Hunsand and Danagshede, 54° at Alvesten, Malin Head and also at Hermanstadt.

(During the day temperature rose to between 75° and 79° over England and to between 90° and 95° in the west of France and the weather was fine except in the far north.

### EXPLANATION OF COLUMNS GIVEN ON PAGE 1.

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

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

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

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



# DAILY WEATHER REPORT.

for *Monday, 2<sup>nd</sup> September, 1889.*  
*Issued by the Meteorological Office, 63 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 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.)		Weather.	Max.		Min.	
SCANDINAVIA.	Häparanda ..	29.81	45	Z	0	bc	29.89	+ .15	47	43	- .4	Z	2	bc	*	59	41	-	
	Hernösand ...	30.06	51	NW	2	bc	30.06	+ .05	51	46	- .5	NW	4	bc	*	63	46	-	
	Stockholm ...	30.08	53	Z	0	b	30.10	+ .02	52	50	- .2	Z	0	o	*	73	46	-	
	Visby ...	30.06	57	SW	2	b	30.09	+ .03	58	55	- .3	WNW	2	b	*	63	54	-	
	Bodö ...	29.94	49	WSW	2	c	30.05	+ .17	46	45	- .1	NW	4	o	2	52	41	0.08	
	Christiansund...	30.17	51	W	3	bc	30.21	+ .08	50	48	- .2	WSW	3	r	2	53	48	0.08	
	Skudesnaes ...	30.19	54	NW	2	bc	30.22	+ .02	53	50	- .3	WNW	2	b	3	59	46	-	
	Christiania Fjord (Fjord)	30.09	59	WSW	2	b	30.15	+ .05	54	53	- .1	N	4	bc	2	61	52	-	
	Skagen (The Scaw)	30.06	57	NW	1	b	30.11	+ .01	57	56	- .1	Z	0	b	0	63	52	-	
	Fanö ...	30.21	53	NW	2	b	30.19	+ .01	59	56	+ .3	NW	2	c	*	63	52	-	
BRITISH ISLANDS.	Sumburgh Head	30.20	52	N	1	c	30.22	+ .03	52	50	+ .2	Z	0	b	0	55	42	-	
	Stornoway ...	30.18	57	Z	0	r	30.09	- .12	56	53	+ .3	SE	2	b	3	57	47	0.40	
	Wick ...	30.22	57	Z	0	bc	30.19	- .04	54	52	- .2	S	4	o	3	62	46	-	
	Nairn ...	30.18	61	NE	1	c	30.15	- .07	53	51	- .2	Z	0	c	0	64	45	-	
	Aberdeen...	30.23	57	SE	2	o	30.23	- .03	54	52	- .2	SE	2	o	3	63	51	-	
	Leith ...	30.20	55	E	3	b	30.16	- .11	56	55	+ .1	E	2	c	*	63	51	-	
	Shields ...	30.18	58	SE	1	b	30.17	- .07	56	55	+ .1	SE	1	c	1	61	52	-	
	Spurn Head ...	30.20	58	E	3	c	30.14	- .09	60	58	+ .2	E	4	b	3	62	56	-	
	York ...	30.21	62	E	1	bc	30.18	- .08	58	56	+ .2	E	1	c	*	64	51	-	
	Loughborough	30.17	66	E	2	b	30.12	- .12	58	57	- .1	E	3	o	4	74	52	-	
GERMANY.	Ardrossan ...	30.14	61	NE	2	b	30.10	- .13	56	54	- .2	NE	4	b	2	65	52	-	
	Malin Head ...	30.14	56	E	3	c	29.99	- .23	58	56	+ .2	SE	5	om	3	60	55	-	
	Mullaghmore ...	30.09	64	E	4	c	29.94	- .28	59	57	+ .2	E	5	om	3	66	53	0.01	
	Belmullet ...	30.07	62	E	2	o	29.89	- .31	61	58	+ .3	E	3	o	*	68	54	0.05	
	Donaghadee ...	30.16	57	NE	2	m	30.07	- .17	58	57	+ .1	E	3	m	0	60	55	-	
	Barrow-in-Furness	30.13	63	ESE	3	b	30.08	- .13	55	53	- .2	NE	5	b	*	66	54	-	
	Liverpool (Bilton)	30.14	63	SE	1	b	30.09	- .13	57	53	+ .4	ESE	4	bc	3	65	51	-	
	Holyhead ...	30.11	67	Z	0	m	30.00	- .18	59	55	- .4	E	3	bc	2	68	56	-	
	Parsonstown ...	30.06	66	NE	1	c	29.91	- .23	61	56	+ .5	SE	2	c	*	72	53	-	
	Valencia ...	29.96	67	E	3	bc	29.82	- .30	61	60	+ .1	ESE	3	om	4	71	56	0.24	
FRANCE & NETHERLANDS.	Roche's Point...	30.06	60	ESE	5	m	29.88	- .27	59	58	+ .1	ESE	5	m	4	64	57	-	
	Pembroke ...	30.08	62	ESE	5	c	29.92	- .23	59	59	+ .1	ESE	7	ogm	5	64	58	-	
	Scilly ...	29.99	62	ESE	6	o	29.88	- .20	60	60	- .2	SE	4	o	5	66	58	0.02	
	Prawle Point ...	30.08	60	ESE	4	c	29.96	- .19	59	59	- .3	S	1	f	2	62	59	-	
	Jersey ...	30.04	67	NE	3	bc	29.99	- .14	63	63	- .3	ESE	2	ogm	2	70	62	-	
	Hurst Castle ...	30.12	64	ESE	2	bc	30.01	- .18	64	63	+ .1	E	4	m	2	69	59	-	
	Dungeness ...	30.11	64	E	4	b	30.03	- .11	61	60	- .1	E	4	m	3	71	60	-	
	London ...	30.17	65	E	3	b	30.07	- .13	62	60	+ .2	NE	3	o	*	73	57	-	
	Oxford ...	30.18	57	SE	1	b	30.07	- .16	58	57	+ .1	NE	2	o	*	71	52	-	
	Cambridge ...	30.22	65	Z	0	b	30.11	- .12	60	59	- .1	E	1	bc	*	73	48	-	
PENINSULA.	Yarmouth ...	30.22	61	ESE	4	b	30.14	- .07	61	59	- .2	E	4	b	4	63	58	-	
	Cuxhaven ...	30.21	59	N	3	b	30.21	+ .02	59	57	+ .2	E	2	b	*	62	?	-	
	Berlin ...	30.17	62	NW	1	b	30.21	+ .09	55	52	- .3	WNW	1	b	*	75	50	-	
	Wiesbaden ...	*	*	*	*	*	30.14	+ .03	61	59	- .2	Z	0	b	*	79	55	-	
	Munich ...	30.19	61	NW	2	c	30.21	+ .04	60	58	- .2	S	1	b	*	77	52	-	
	The Helder ...	30.21	60	E	2	b	30.19	- .03	58	56	- .2	E	2	bc	3	63	57	-	
	Brussels ...	*	*	*	*	*	30.09	- .06	58	57	- .1	E	2	o	*	74	56	-	
	Cape Gris Nez...	?	62	E	4	c	?	?	57	57	?	E	3	f	3	66	55	-	
	Paris ...	30.08	73	E	1	b	30.04	- .10	60	60	- .5	NNE	1	bc	*	82	57	-	
	Brest ...	?	69	Z	0	b	?	?	62	61	- .1	SW	3	o	3	84	57	-	
GERMANY.	Lorient ...	30.02	67	SE	3	o	30.02	- .06	63	62	- .1	WSW	1	o	2	82	61	-	
	Rochefort ...	30.08	72	SW	3	bc	30.09	+ .00	66	65	- .1	W	3	bc	2	84	61	-	
	Belfort ...	30.10	65	SE	1	b	30.10	- .01	59	53	- .6	SW	1	b	*	75	54	-	
	Lyons ...	30.04	78	ESE	1	bc	30.11	- .03	63	61	+ .2	SSE	1	bc	*	86	59	-	
	Nice ...	30.11	66	W	4	bc	30.14	+ .01	66	64	+ .2	W	1	c	0	75	61	-	
	Perpignan ...	30.09	68	E	2	o	30.11	- .03	67	67	+ .3	E	2	o	*	74	?	0.04	
	Biarritz ...	30.02	69	NW	3	o	29.99	- .09	68	66	- .2	Z	0	o	0	75	66	-	
	Corunna ...	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	-	
	Lisbon ...	30.10	65	NW	4	b	30.15	+ .06	65	63	+ .2	Z	0	c	2	77	63	-	

For Explanation of Columns, see p. 4.

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



# WEATHER CHARTS

for 8 a.m. on Monday 2<sup>nd</sup> September

1889.

## BAROMETER, WIND AND 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:

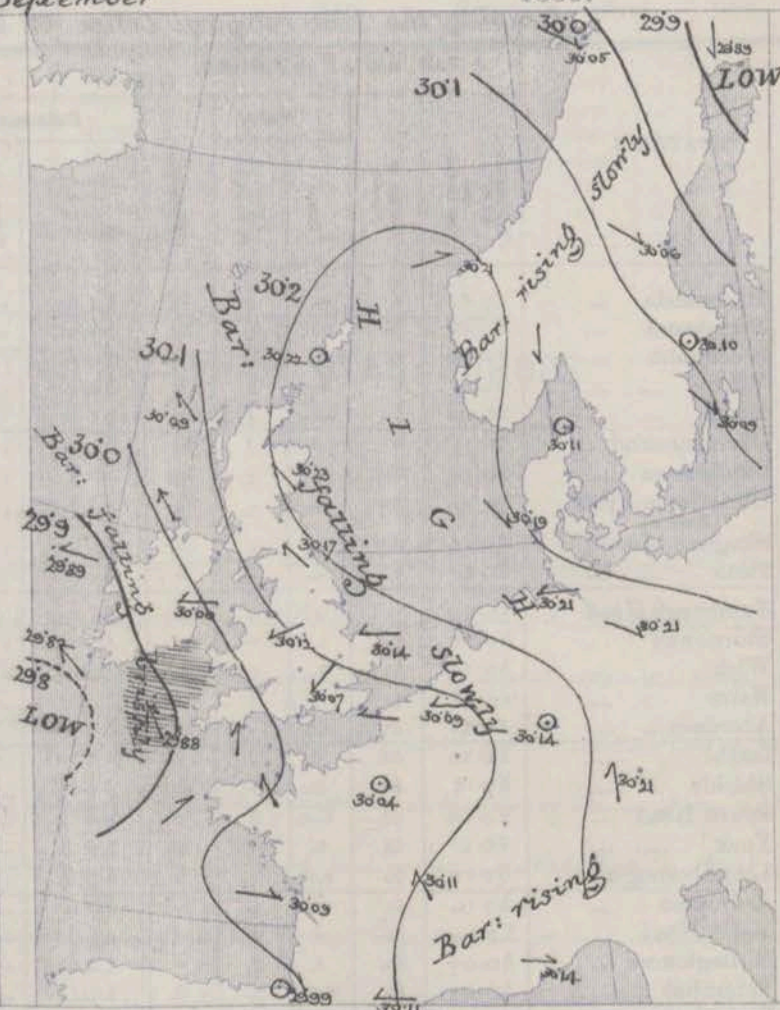
— Rough. — High.

## MEAN HEIGHT OF THE BAROMETER

at 8.0 a.m. for the month of September.

During the 15 Years: 1871—1885.

STATIONS.	MEAN READINGS.
Sumburgh Head .....	29.766
Stornoway .....	29.789
Wick .....	29.793
Nairn .....	29.809
Aberdeen .....	29.819
Leith .....	29.846
Shields .....	29.869
York .....	29.905
Loughborough .....	29.924
Ardrossan .....	29.850
Donaghadee .....	29.869
Holyhead .....	29.894
Liverpool .....	29.899
Parsonstown .....	29.904
Valencia .....	29.917
Roche's Point .....	29.915
Pembroke .....	29.913
Scilly .....	29.943
Jersey .....	29.955
Hurst Castle .....	29.960
Dover .....	29.941
LONDON .....	29.945
Oxford .....	29.935
Cambridge .....	29.931
Yarmouth .....	29.916



## 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.

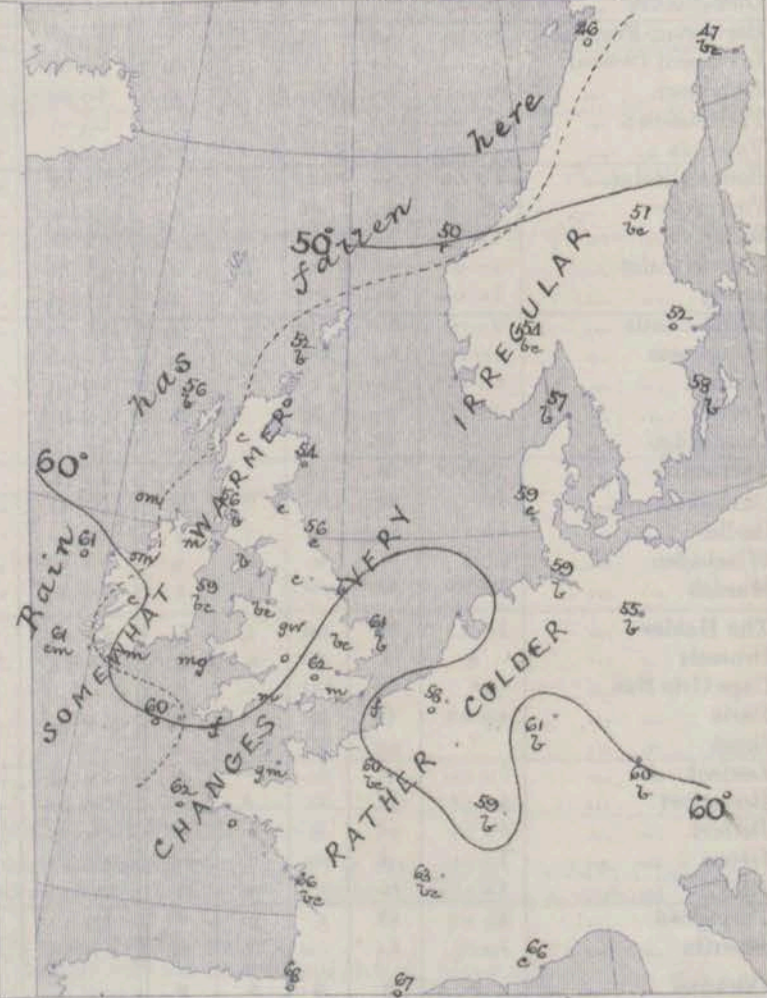
**RAINFALL**—A dotted line separates the districts in which rain has fallen from those where there has been none. Falls of 0.5 in. or more, are quoted in figures.

## 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	46.3	50.9	49.2	3.46
Stornoway .....	56.1	45.7	51.1	49.8	4.13
Wick .....	57.6	45.5	51.8	49.9	2.66
Nairn .....	59.0	46.8	51.2	48.8	2.73
Aberdeen .....	59.2	46.7	52.1	49.8	3.22
Leith .....	62.2	47.6	53.2	50.8	2.47
Shields .....	59.9	49.3	53.1	51.1	2.58
York .....	63.3	47.3	52.8	51.0	2.98
Loughborough .....	65.0	47.9	54.3	52.4	3.06
Ardrossan .....	59.7	49.6	53.5	51.3	3.87
Donaghadee.....	59.6	48.8	53.3	52.1	3.22
Holyhead.....	60.6	52.8	55.7	53.5	3.35
Liverpool .....	61.2	50.9	54.5	51.9	3.56
Parsonstown .....	61.6	47.5	53.1	51.1	3.49
Valencia .....	61.7	51.5	56.3	53.9	4.87
Roche's Point .....	61.9	51.0	55.4	53.2	4.39
Pembroke.....	60.2	53.1	56.2	53.8	3.89
Scilly .....	61.8	54.8	58.4	56.2	3.69
Jersey .....	65.2	54.9	59.8	57.1	3.51
Hurst Castle .....	64.2	52.2	57.2	55.8	3.35
Dover .....	62.9	53.0	57.0	55.3	2.86
LONDON .....	66.3	49.4	55.9	53.6	2.59
Oxford .....	65.8	49.1	54.2	52.3	2.91
Cambridge .....	65.5	48.1	54.4	52.9	2.48
Yarmouth .....	62.0	51.1	56.2	54.4	3.17

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





# GENERAL SITUATION AT 8 A.M.

## PRESSURE

Highest 30.2 in: and more over Germany and the North Sea — 30.1 in: and more over the southern parts of Spain.  
 Lowest, About 29.8 in: off the southwest coast of Ireland — 29.5 in: and less, over Ireland.

Gradients moderate, for SE winds in our islands, and for W winds over Spain.

Barometer rising a little both over Scandinavia and the Spanish Peninsula, falling in our islands, most in the southwest.

## TEMPERATURE

Highest 68° at Biarritz, 67° at Perpignan, 66° at Rochefort, 65° at Jersey and 62° in London.

Lowest 46° at Bodo, 47° at Hakaranda, 50° at Christianund, 52° at Sumburg, 54° at Stockholm, 57° at Aberdeen.

The daily maxima recorded yesterday varied from 80° to 86° over France, 75° to 79° over Germany, 70° to 75° over England.

## WIND

NW winds moderate, over Scandinavia and the Baltic — E to SE over the British Isles; light to moderate at the northern and eastern stations, moderate to strong in the west.

In the east of France wind is light from W and SW — Calm at Biarritz and Lisbon.

## WEATHER

Fine and bright on our extreme eastern coast, cloudy elsewhere, with an unsettled appearance generally, and fog in the Channel. A thunderstorm occurred at Valencia this morning.

Rain has occurred in the northwest and west only.

## SEA

Rather rough on our southwestern coast, moderate at Yarmouth, slight or smooth elsewhere.

## PROBABLE CHANGES IN SYSTEM NOW PREVALENT

It appears probable that the depression now lying off our southwest coast will cause changeable, showery and perhaps thundery weather to spread gradually over the Kingdom, with very variable winds.

## FORECASTS

For the 24 hours ending at NOON on 3<sup>rd</sup> SEP<sup>r</sup> 1889.

### DISTRICTS.

### FORECASTS.

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

SE<sup>ly</sup> breezes, moderate to fresh; changeable, some rain.  
 E<sup>ly</sup> and varying winds; fine at first, less settled later, perhaps rain and thunder.

### DISTRICTS.



### FORECASTS

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

SE<sup>ly</sup> to S<sup>ly</sup> winds, fresh, unsettled, rain at times.  
 S<sup>ly</sup> and SW<sup>ly</sup> breezes; changeable, showery, thundery.  
 Varying SE<sup>ly</sup> to SW<sup>ly</sup> breezes, unsettled, some thundershowers.

### WARNINGS

NONE ISSUED.

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



# YESTERDAY'S 2 P.M. REPORTS.

	Bar.	Dry.	Wet.	Wind.	Wes.	Sea.		Bar.	Dry.	Wet.	Wind.	Wes.	Sea.
Skudesnaes ...	30.20	59	55	W 2	C	3	Holyhead ...	30.11	67	63	W 0	M	0
Sumburgh Head ...							Valencia ...						
Stornoway ...	30.18	59	57	W 0	T	2	Sailly ...						
Aberdeen ...							Jersey ...	30.06	67	64	NE 3	bc	3
Shields ...							Dungeness ...	30.11	64	61	NE 4	b	3
Ardrossan ...							London ...						
Malin Head ...	30.14	56	55	E 3	C	1	Yarmouth ...						
Mullaghmore ...							Rochefort ...	30.10	76	61	SSE 2	0	1
Balmallete ...	30.07	62	58	ESE 2	S 0	*							

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

The reports for yesterday morning showed that pressure was high (30.1 in.) and more over nearly the whole of Western, Central, and Southern Europe, and that it exceeded 30.2 inches over Scotland, the north of Ireland and all the northern and eastern parts of England. From these regions it decreased to about 29.7 in. in the extreme north of Russia, and to the same value in a depression lying over Southern Russia, and the Sea of Azov. Over Central and Northern Europe the barometer was rising, but on our southwest coasts and over the Bay of Biscay it was beginning to fall. E<sup>ly</sup> winds were consequently becoming rather general at the western stations, and were inclined to freshen, but over Northern and Central Europe the wind was N.W. to N.E., and in the south very light and variable. Weather was dull over the northern and eastern countries, fine and bright in many parts of the British Islands and Western Europe, but foggy or hazy on our southern coasts, and gloomy over Central England. Temperature was changing irregularly, — falling in the north and northeast, rising over France and changing irregularly elsewhere. The highest morning values were 77° at Barcelona, 75° at Sfax, 74° at Brindisi, 73° at Aron, Algiers, Malta and Tangier, 72° at Cagliari and 70° at Leghorn and Palermo; the lowest were 48° at Bodo, 49° at Kuopio, 50° at Christiansund, 51° at Sumburgh Head and Kaparanda, 52° at Ulenborg and Kermösand, and 53° at Hornoway and Etchangel.

Later in the day temperature rose greatly over France, but not so much over England, and with a falling barometer the E<sup>ly</sup> wind freshened in the Southwest of the British Islands.

## SUMMARY OF CHANGES IN THE WEATHER OVER THE BRITISH ISLANDS AND THEIR NEIGHBOURHOOD FROM THE 25<sup>TH</sup> AUG<sup>ST</sup> TO THE 31<sup>ST</sup> AUG<sup>ST</sup> 1889.

During this week the distribution of pressure over Western Europe has been, —

- (1). Mainly anticyclonic over the southern districts — the first system advancing over those regions between the 26<sup>th</sup> and 28<sup>th</sup>, while the second appeared off our western coasts on the 30<sup>th</sup>, and spread completely over the United Kingdom on the following day. The weather in these regions has therefore been fine and quiet generally, and the amount of Bright Sunshine large, and the wind N.W. to S.W. until Thursday, after which it fell calm and finally backed round to the Eastward. Temperature rose greatly — the rise attaining in maxima of 30° to 33° over England on Friday.
- (2). Largely cyclonic in the west and north owing to the advance of a large and well marked depression to our northern coasts from the South Westward on Tuesday and Wednesday, and some shallow secondary disturbances on the following day. In these regions therefore the wind was S.W. to N.W. in direction, strong in force, a gale at times, and the weather squally and showery — the rain being heavy in a few localities. After Thursday, however, the anticyclonic conditions spread northward and the rainfall reported was confined to our extreme northern stations.

At the close of the week pressure was beginning to give way a little in the Southwest, but was high, and rising slowly in the northeast.

## 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, 3<sup>rd</sup> September, 1889*  
 Issued by the Meteorological Office, 63, 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 Rain/fall.		
				Dir.	Force. (0 to 12.)		Reading at 32° F. and Sea Level.	Difference from 8 a.m. yesterday.	Dry.	Wet.	Difference from 8 a.m. yesterday.	Dir.	Force. (0 to 12.)		Weather.	Max.		Min.	
SCANDINAVIA.	Haparanda ...	29.90	46	Z	0	c	29.90	+01	51	48	+4	Z	4	bc	*	55	37	-	
	Hernösand ...	30.10	50	H	4	c	30.10	+04	53	48	+2	nmw	2	bc	*	61	45	-	
	Stockholm ...	30.12	53	Z	0	b	30.13	+03	52	48	0	Z	4	b	*	64	46	-	
	Wisby ...	30.13	53	c	4	b	30.12	+03	57	53	-1	"	6	bc	*	63	50	-	
	Bodö ...	30.03	49	sw	8	r	30.11	+06	50	49	+4	nmw	4	0	2	50	39	0.04	
	Christiansund	30.26	49	E	1	b	30.22	+01	49	47	-1	ENE	4	m	2	55	45	0.04	
	Skudesnaes ...	30.21	53	nmw	2	0	30.25	+03	55	53	+2	2	2	b	2	59	46	-	
	Christiania Fjord (Færder)	30.23	59	Z	0	b	30.25	+10	54	52	0	nmw	3	b	1	59	52	-	
	Skagen (The Scaw)	30.17	56	Z	0	b	30.24	+13	59	57	+2	Z	0	b	0	63	50	-	
	Fanö ...	30.21	50	nmw	2	b	30.20	+01	53	54	-4	E	4	b	*	64	48	-	
BRITISH ISLANDS.	Sumburgh Head	30.20	54	SE	2	c	30.13	-09	54	51	+2	SE	2	c	3	58	49	-	
	Stornoway ...	30.01	59	Z	0	c	30.00	-09	54	54	-2	Z	0	0	2	63	54	-	
	Wick ...	30.12	56	SE	5	b	30.07	-12	56	54	+2	S	5	m	5	60	52	-	
	Nairn ...	30.06	64	S	2	b	30.05	-10	53	50	0	SW	1	c	1	70	46	-	
	Aberdeen ...	30.18	54	SE	3	c	30.14	-09	56	54	+2	SE	3	0	3	58	53	-	
	Leith ...	30.08	59	E	1	fc	30.08	-08	58	56	+2	2	1	cm	*	64	53	-	
	Shields ...	30.12	57	E	3	0	30.08	-09	57	56	+1	S	1	om	2	60	54	-	
	Spurn Head ...	30.05	59	E	5	bc	30.00	-14	59	58	-1	ENE	5	0	4	61	58	0.27	
	York ...	30.10	60	E	2	bc	29.98	-20	58	56	0	2	1	r	*	68	56	0.26	
	Loughborough	30.02	64	ENE	2	0	30.00	-12	60	59	+2	nmw	1	ogdm	*	71	58	0.02	
GERMANY.	Ardrossan ...	30.02	60	NE	3	om	30.04	-06	58	56	+2	ENE	3	om	2	65	53	-	
	Malin Head ...	29.93	61	SE	3	om	29.96	-03	58	57	0	SE	4	omr	2	62	56	-	
	Mullaghmore ...	29.90	61	E	4	om	29.97	+03	61	60	+2	SEW	2	om	2	64	59	0.01	
	Belmullet ...	29.97	61	SE	2	0	29.97	+08	59	59	-2	nmw	1	of	*	64	58	0.08	
	Donaghadee ...	29.98	60	SE	4	c	30.02	-05	57	57	-1	SE	3	f	1	61	57	-	
	Barrow-in-Furness	29.99	62	NE	3	0	30.01	-07	59	58	+4	NE	2	om	*	65	54	0.03	
	Liverpool (Bidston)	29.99	64	ENE	3	0	30.03	-06	58	58	+1	E	1	of	1	67	57	0.02	
	Holyhead ...	29.94	64	ENE	2	ogmt	30.01	+01	60	59	+1	SE	1	ogm	1	64	58	0.05	
	Parsonstown ...	29.87	61	SE	1	0	29.99	+08	60	59	-1	Z	0	0	*	65	59	0.02	
	Valencia ...	29.88	60	SW	1	of	30.03	+21	59	58	-2	nmw	1	om	1	62	57	0.08	
FRANCE AND NETHERLANDS.	Roche's Point...	29.88	58	2	4	f	30.02	+14	59	57	0	nmw	2	c	3	60	56	0.08	
	Pembroke (St. Ann's Hd.)	29.95	59	3	2	f	30.02	+10	60	59	+1	SE	1	om	1	64	58	0.05	
	Scilly ...	29.94	60	SSW	1	op	29.98	+10	61	61	+1	ENE	2	rf	2	64	58	0.38	
	Prawle Point ...	29.99	58	SSW	2	m	30.04	+08	59	59	0	2	1	rg	0	61	56	0.05	
	Jersey (St. Aubin's)	30.02	66	nmw	2	0	30.04	+05	62	61	-3	SW	3	ogm	3	68	55	0.11	
	Hurst Castle ...	30.00	64	SW	2	c	30.03	+02	62	61	-2	W	2	c	1	67	59	-	
	Dungeness ...	29.96	64	ENE	3	c	29.97	-06	61	60	0	nmw	4	r	2	69	61	0.25	
	London ...	30.00	63	SE	2	og	30.00	-07	62	61	0	W	1	ogmd	*	70	61	0.26	
	Oxford ...	30.01	64	SE	2	0	30.00	-07	60	60	+2	ENE	1	om	*	73	57	-	
	Cambridge ...	30.04	65	Z	0	r	30.00	-11	60	59	0	Z	0	0	*	74	58	0.66	
PENIN- SULA.	Yarmouth ...	30.07	62	E	4	bc	29.99	-15	62	61	+1	E	4	rg	4	64	59	0.48	
	Cuxhaven ...	30.18	57	nmw	3	b	30.17	-04	57	55	-2	SE	2	m	*	62	?	-	
	Berlin ...	30.17	63	Z	0	b	30.21	-00	57	54	+2	ENE	1	b	*	68	52	-	
	Wiesbaden ...	*	*	*	*	*	30.09	-05	66	61	+5	Z	0	0	*	77	61	-	
	Munich ...	30.14	64	Z	0	b	30.15	-06	63	60	+3	Z	0	c	*	75	55	-	
	The Helder ...	30.11	62	ENE	3	b	30.03	-16	59	55	+1	E	2	c	3	66	?	-	
	Brussels (9 a.m.)	*	*	*	*	*	29.99	-10	64	63	+6	SSW	4	0	*	79	?	0.32	
	Cape Gris Nez	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	
	Paris ...	29.97	75	S	1	0	30.08	+04	63	61	+3	SSW	2	0	*	86	?	0.04	
	Brest ...	?	63	S	2	0	?	?	62	59	0	S	3	r	2	66	57	0.20	
PENIN- SULA.	Lorient ...	30.05	64	SW	1	0	30.03	+01	64	64	+1	SW	3	0	2	68	61	-	
	Rochefort ...	30.08	69	nmw	4	b	30.15	+06	65	65	-1	S	4	0	2	75	61	-	
	Belfort ...	30.04	68	S	1	b	30.11	+01	65	54	+6	nmw	1	r	*	75	55	-	
	Lyons ...	30.02	75	S	2	r	30.12	+01	63	61	0	W	1	b	*	88	61	0.12	
	Nice ...	30.12	76	Z	0	bc	30.10	-04	66	65	0	ENE	2	c	0	77	63	-	
	Perpignan ...	30.07	69	E	3	0	30.12	+01	68	67	+1	E	2	b	*	73	63	-	
	Biarritz ...	30.09	71	nmw	3	c	30.12	+13	67	65	-1	S	2	0	1	77	66	-	
	Corunna ...	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	
	Lisbon ...	30.15	69	nmw	4	c	30.19	+04	65	61	0	r	4	b	2	71	63	-	

For Explanation of Columns, see bottom of p. 4.

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



# WEATHER CHARTS

for 8 a.m. on

Tuesday 3<sup>rd</sup> September

1889.

## BAROMETER, WIND AND 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:

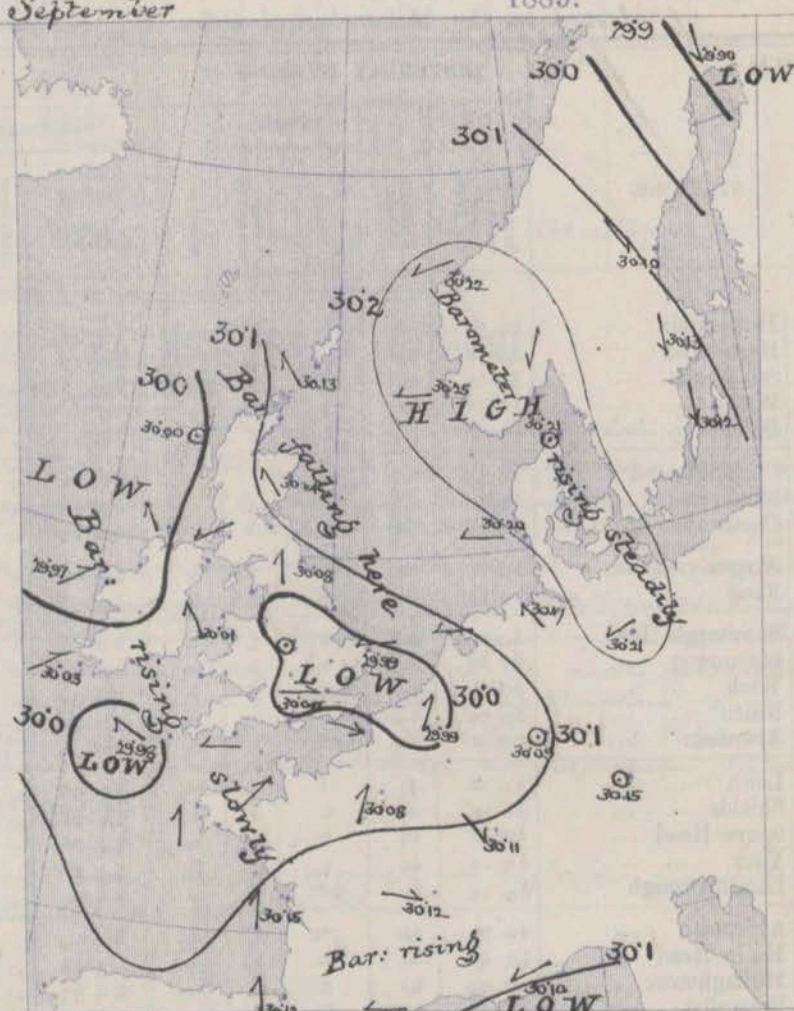
= Rough. = High.

## MEAN HEIGHT OF THE BAROMETER

at 8.0 a.m. for the month of September.

During the 15 Years: 1871—1885.

STATIONS.	MEAN READINGS.
Sumburgh Head	29.766
Stornoway	29.780
Wick	29.793
Nairn	29.809
Aberdeen	29.819
Leith	29.846
Shields	29.869
York	29.905
Loughborough	29.924
Ardrossan	29.850
Donaghadee	29.869
Holyhead	29.894
Liverpool	29.899
Parsonstown	29.904
Valencia	29.917
Roche's Point	29.915
Pembroke	29.913
Silly	29.943
Jersey	29.955
Hurst Castle	29.960
Dover	29.941
LONDON	29.945
Oxford	29.935
Cambridge	29.931
Yarmouth	29.916



## 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.

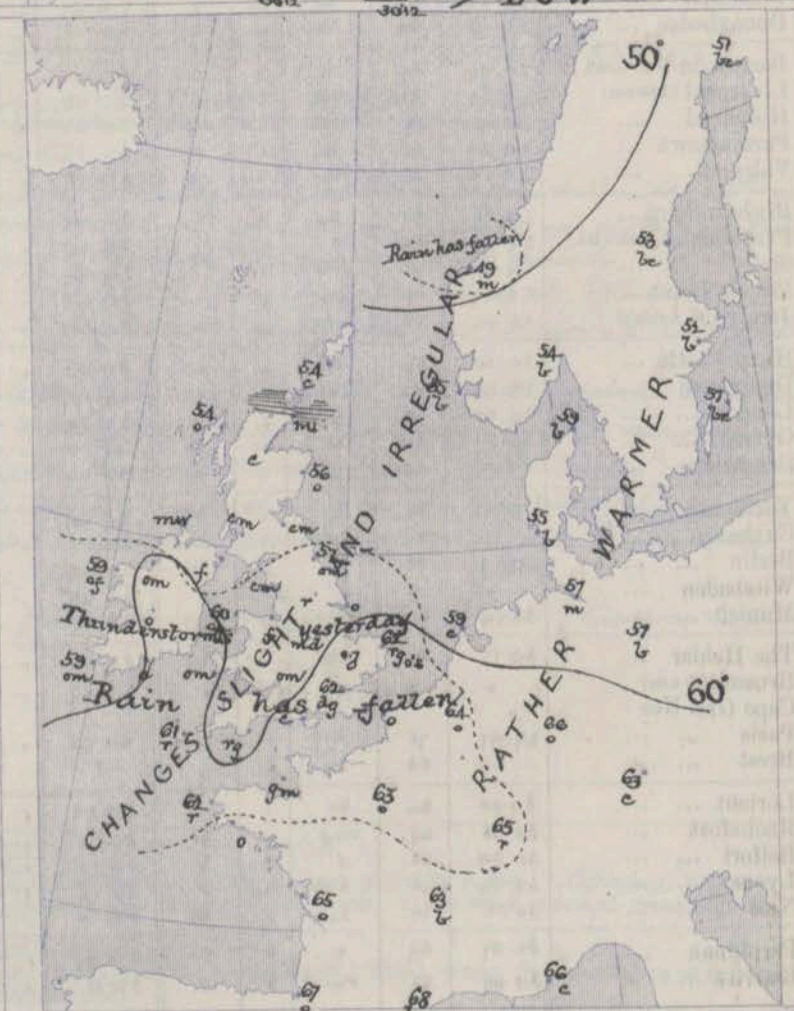
**WEATHER** is shown by Letters of the Beaufort Scale.

**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.)

(For the month of September)					
STATIONS.	TEMPERATURE.				RAINFALL. (Inches.)
	Daily Max.	Daily Min.	at 8 a.m.		
			Dry.	Wet.	
Sumburgh Head.....	55.2	46.3	50.9	49.2	3.46
Stornoway .....	50.1	45.7	51.1	49.8	4.13
Wick.....	57.0	45.5	51.8	49.9	2.66
Nairn.....	59.0	46.8	51.2	48.8	2.73
Aberdeen.....	59.2	46.7	52.1	49.8	3.22
Leith.....	62.2	47.6	53.2	50.8	2.47
Shields.....	59.9	49.3	53.1	51.1	2.58
York.....	63.3	47.3	52.8	51.0	2.98
Loughborough.....	65.0	47.9	54.3	52.4	3.06
Ardrossan.....	59.7	49.6	53.5	51.3	3.87
Donaghadee.....	59.6	48.8	53.3	52.1	3.22
Holyhead.....	60.6	52.8	55.7	53.5	3.35
Liverpool.....	61.2	50.9	54.5	51.9	3.56
Parsonstown.....	61.6	47.5	53.1	51.1	3.49
Valencia.....	61.7	51.5	56.3	53.9	4.87
Roche's Point.....	61.9	51.0	55.4	53.2	4.39
Pembroke.....	60.2	53.1	56.2	53.8	3.89
Silly.....	61.8	54.8	58.4	56.2	3.69
Jersey.....	63.2	54.9	59.8	57.1	3.51
Hurst Castle.....	64.2	52.2	57.2	55.8	3.35
Dover.....	62.9	53.0	57.9	55.3	2.86
LONDON.....	66.3	59.4	65.9	63.6	2.69
Oxford.....	63.8	49.1	54.2	52.3	2.91
Cambridge.....	65.5	48.1	54.4	52.9	2.48
Yarmouth.....	62.0	51.1	56.2	54.4	3.17

NOTE.—The Temperature means are for the 15 years 1871-85, the Rainfall means are mainly those for the 20 years 1865-85.





# GENERAL SITUATION AT 8 A.M.

## PRESSURE

Highest, 30.2 in. and more, in an anticyclone lying over Denmark and Norway and apparently off the Portuguese coast also.  
 Lowest, 30.0 in. and less, in shallow depressions (1.) over our eastern coasts, (2.) at the mouth of the Channel, and (3.) off our extreme north-west coasts.  
 Gradients slight and very irregular. Barometer very unsteady, but changes not great.

## TEMPERATURE

Highest, 68° at Perpignan, 67° at Bimix, 66° at Nice and Marseilles, 65° at Aix and Rochefort, 63° at Paris, 62° at Hurst Castle and in London.  
 Lowest, 49° at Christiansund, 51° at Hafnarvordur, 52° at Stockholm, 53° at Naarvik, 54° at Bumburgh Head and Stornoway.  
 Yesterday's daily maxima slightly exceeded 70° over Central England.

## WIND

Light to moderate generally, calm in some localities, S<sup>ly</sup> and SW<sup>ly</sup> in the west and north of France — S<sup>ly</sup> in Scotland — SE<sup>ly</sup> in the northeast of Ireland — SW<sup>ly</sup> in the west of Ireland — very variable elsewhere.  
 In Sweden the wind is N<sup>ly</sup>, and blows rather freshly at Stockholm and Ulsby.

## WEATHER

Fine and bright in Norway and Denmark — cloudy and unsettled in Scotland.  
 Very dull, close, misty and wet over England, Ireland and the northern and western parts of France.  
 Thunderstorms have been very general over England.

## SEA

Rather rough at Mirk, moderate on the east coast of England, slight or smooth elsewhere.

## PROBABLE CHANGES IN SYSTEM NOW PREVALENT

Changeable, wet weather, with thunder in places seems likely to be very prevalent over our islands and their neighbourhood.

# FORECASTS

For the 24 hours ending at NOON on 4<sup>th</sup> SEPT. 1889.

## DISTRICTS.

## FORECASTS.

- |   |                  |  |
|---|------------------|--|
| 0 | SCOTLAND NORTH   | { SE <sup>ly</sup> and S <sup>ly</sup> winds; dull, rainy, perhaps thundery.   |
| 1 | SCOTLAND EAST    |  |
| 2 | ENGLAND N.E.     | { Varying light airs and calms; gloomy, close, rain at times, thunder locally. |
| 3 | ENGLAND EAST     |  |
| 4 | MIDLAND COUNTIES |  |
| 5 | ENGLAND SOUTH    |  |

## DISTRICTS.

## FORECASTS

- |   |               |   |
|---|---------------|---|
| 6 | SCOTLAND WEST | { S <sup>ly</sup> and SW <sup>ly</sup> winds, moderate, showery, unsettled.       |
| 7 | ENGLAND N.W.  |   |
| 8 | ENGLAND S.W.  | SE <sup>ly</sup> to SW <sup>ly</sup> winds, a good deal of rain, thunder locally. |
| 9 | IRELAND NORTH | { Varying airs, changeable, some showers.   |
| 0 | IRELAND SOUTH |   |

## WARNINGS

NONE ISSUED

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



# YESTERDAY'S 2 P.M. REPORTS.

	Bar:	Ther:		Wind		Wea:	Sea		Bar:		Ther:		Wind		Wea:	Sea.
		D	W	D	F						D	W	D	F		
Skudesnaes ...	30.21	60	52	nmw	4	b	3		Holyhead ...	29.97	65	62	E	3	cm	2
Fumburgh Head ...	30.22	56	51	SE	2	bc	2		Valencia ...	29.84	61	60	SEA	1	o	1
Stornoway ...	30.05	62	61	SE	2	b	3		Scilly ...	29.92	62	61	SW	14	om	14
Aberdeen ...	30.20	59	55	SE	3	c	3		Jersey ...	30.02	68	64	SW	2	o	2
Shields ...	30.15	59	58	E	2	bc	1		Dungeness ...	29.99	64	61	ESE	14	bc	2
Ardrossan ...	30.04	59	57	NE	3	c	2		London ...	30.02	66	62	E	3	o	2
Malin Head ...	29.96	60	57	SEA	4	c	2		Yarmouth ...	30.10	64	60	E	4	b	4
Mullaghmore ...	29.91	64	58	ESE	5	om	3		Rocheport ...	30.12	73	?	nmw	14		
Belmullet ...	29.89	64	61	SE	2	og	2									

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

The reports for yesterday morning showed that pressure exceeded 30.1 ins: over nearly the whole of Great Britain, the southern half of Scandinavia, Germany, Switzerland, the greater part of the Mediterranean and the southern half of the Spanish Peninsula, and that it exceeded 30.2 ins: over the North Sea and some parts of North Germany. To the eastward it decreased to 29.7 ins: and less, over Central Russia, while in a westerly direction it decreased to about 29.8 ins: in a depression off the southwest of Ireland. Shallow secondary disturbances were found near Brittany and appeared to be forming over Central France. The wind varied greatly; it was chiefly NW<sup>3</sup> and N<sup>3</sup> over the Baltic and Eastern Europe and was of little force, E<sup>3</sup> and SE<sup>3</sup> over the British Isles — light at the eastern stations, moderate to strong in the west — W<sup>2</sup> over Brittany, very variable and light elsewhere. Temperature was below 60° over Northern, Central and Eastern Europe and over the northern parts of the British Isles and below 50° over Lapland and Finland, but exceeded 60° at most of the western and south-western stations, and 70° on the western and southern shores of the Mediterranean. The highest morning values were 80° at La Caille, 78° at Barcelona, 74° at Brindisi and Capri, 72° at Nemours, 70° at Sangüinaria and Lefhorn. The lowest were 46° to 48° over Lapland and Finland and at Archangel, 50° at Christiansund and Helsingfors, 52° at Stockholm, and 53° at Kain.

Later on thunderstorms and rain spread over England and Ireland, and the weather became very unsettled over Western Europe 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 WEDNESDAY 4TH SEPTEMBER 1889.

Issued by the Meteorological Office, 63, Victoria Street, London. R. H. SCOTT, Secretary.

STATIONS.	YESTERDAY EVENING.						8 A.M. TO DAY.										PAST 24 HOURS.		
	Barometer at 32° F. and Sea Level.	Temp. in Shade.	WIND.		Weather.	BAROMETER.		SHADE TEMP.			WIND.		Weather.	Sea. (0 to 3.)	SHADE TEMP.		Amount of Rainfall.		
			Direc.	Force. (0 to 12.)		Reading at 32° F. and Sea Level.	Difference from 8 a.m. yesterday.	Dry.	Wet.	Difference from 8 a.m. yesterday.	Direc.	Force. (0 to 12.)			Max.	Min.			
SCANDINAVIA.	Haparanda ...	30.02	44	Z	0	0	30.06	+16	54	52	+3	SW	2	C	*	57	43	—	
	Hernösand ...	30.11	49	Z	0	0	30.13	+03	51	50	-2	Z	0	C	*	64	?	—	
	Stockholm ...	30.14	56	Z	0	0	30.17	+04	53	54	+7	Z	0	0	*	63	46	—	
	Wisby ...	30.15	53	N	4	6	30.19	+07	53	53	+1	NW	4	0	*	59	52	—	
	Bodö ...	30.14	51	SW	4	0	29.99	-12	52	49	+2	SE	1	6	1	59	46	—	
	Christiansund ...	30.17	52	Z	0	6	30.10	-12	52	53	+3	SE/2E	1	6	1	57	46	—	
	Skudesnaes ...	30.23	57	Z	0	6	30.22	-03	57	54	+2	E	4	C	3	64	52	—	
	Christiania Fjord (Færder) ...	30.20	58	SW	2	6	30.19	-06	52	51	-2	NNW	2	6	1	63	52	—	
	Skagen (The Scaw) ...	30.21	51	Z	0	6	30.22	-02	57	53	-2	WdW	1	6	0	66	46	—	
	Fanö ...	30.19	54	E	4	6	30.18	-02	53	53	0	E	4	6	*	64	52	—	
BRITISH ISLANDS.	Sumburgh Head ...	30.10	54	SE	2	0	30.12	-01	54	54	0	Z	0	m	1	58	51	—	
	Stornoway ...	30.05	60	Z	0	0	30.11	+11	58	58	+4	SW	2	6	2	60	52	—	
	Wick ...	30.07	58	N	2	6	30.15	+08	59	57	+3	Z	0	0	1	62	48	—	
	Nairn ...	30.05	64	Z	0	6	30.13	+08	58	56	+5	Z	0	m	0	68	50	—	
	Aberdeen ...	30.13	56	0	2	0	30.18	+04	54	53	-2	SW	1	6m	2	59	48	—	
	Leith ...	30.15	59	NE	1	C	30.19	+11	55	58	-3	SE	1	om	*	64	52	—	
	Shields ...	30.09	58	ENE	1	0	30.17	+09	57	56	0	Z	0	C	2	60	52	—	
	Spurn Head ...	30.03	60	Z	0	C	30.13	+13	59	58	0	NNE	3	0	3	60	56	0.03	
	York ...	30.06	60	N	2	0	30.15	+17	59	58	+1	NE	1	0	*	65	57	0.06	
	Loughborough ...	30.05	61	NNW	1	0	30.15	+15	59	58	-1	NW	1	om	*	63	55	0.31	
BRITISH ISLANDS.	Ardrossan ...	30.07	60	NNW	1	0	30.18	+14	57	56	-1	NW	1	om	1	64	54	—	
	Malin Head ...	30.05	60	SW	1	om	30.16	+20	58	57	0	SW	2	0	0	62	57	—	
	Mullaghmore ...	30.08	60	NNW	2	om	30.19	+22	58	56	-3	W	2	0	2	66	56	—	
	Belmullet ...	30.09	59	W	2	0	30.20	+23	58	57	-1	2	1	0	*	61	55	—	
	Donaghadee ...	30.08	60	ESE	2	6	30.19	+17	56	56	-1	ENE	2	f	0	61	56	0.01	
	Barrow-in-Furness ...	30.05	62	NW	2	C	30.15	+14	55	52	-4	NE	1	6	*	62	52	0.02	
	Liverpool (Bidston) ...	30.07	60	NNE	1	0	30.16	+13	58	57	0	NNE	1	om	2	61	56	0.03	
	Holyhead ...	30.07	60	Z	0	m	30.17	+16	59	59	-1	Z	0	m	0	66	58	0.01	
	Parsonstown ...	30.09	65	SW	1	C	30.20	+21	57	55	-3	Z	0	0	*	66	52	—	
	Valencia ...	30.14	59	NW	2	og	30.22	+19	59	57	0	SE	1	0	2	63	56	0.01	
BRITISH ISLANDS.	Roche's Point... ..	30.09	63	NNW	2	C	30.19	+17	59	56	0	N	2	C	3	64	53	—	
	Pembroke (St. Ann's Hd.) ...	30.09	58	SW	2	f	30.18	+16	59	59	-1	NW	1	f	1	64	58	0.09	
	Scilly ...	30.10	61	NNW	4	0	30.20	+22	59	59	-2	NW	4	0	4	64	57	0.07	
	Prawle Point ...	30.08	60	NNW	1	C	30.18	+14	64	62	+5	NNW	1	6	0	64	54	0.27	
	Jersey (St. Aubin's) ...	30.05	65	NNW	2	cgm	30.18	+14	61	60	-1	NW	2	om	2	69	58	—	
	Hurst Castle ...	30.06	63	WSW	3	6	30.15	+12	63	62	+1	N	2	om	1	70	59	—	
	Dunegness ...	30.01	63	W	4	C	30.10	+13	61	61	0	NW	2	m	1	68	56	—	
	London ...	30.03	66	W	1	6	30.14	+14	60	58	-2	NNE	1	og	*	69	59	0.05	
	Oxford ...	30.07	62	NNW	1	0	30.15	+15	59	58	-1	N	1	0	*	67	58	0.07	
	Cambridge ...	30.03	65	N	1	0	30.14	+14	59	58	-1	NW	1	0	*	68	54	0.07	
GERMANY.	Yarmouth ...	30.01	63	Z	0	7	30.09	+10	60	59	-2	NNW	2	cm	4	65	56	0.06	
	Cuxhaven ...	30.14	58	SE	3	0	30.14	-03	56	54	-1	SE	3	m	*	65	55	—	
	Berlin ...	30.20	62	SE	2	C	30.20	-01	56	52	-1	SE	3	C	*	68	52	—	
	Wiesbaden ...	*	*	*	*	*	30.10	+01	62	60	-4	Z	0	0	*	70	57	0.08	
	Munich ...	30.19	64	Z	0	0	30.16	+01	62	60	-1	W	1	6	*	73	55	0.04	
FRANCE AND NETHERLANDS.	The Helder ...	*	*	*	*	*	30.11	+12	62	60	-2	SW	1	C	*	71	57	—	
	Brussels (0 a.m.) ...	?	62	SW	2	C	?	?	61	60	-1	NE	1	f	2	64	59	—	
	Cape Gris Nez ...	30.08	66	SW	1	0	30.10	+02	62	61	-1	N	1	0	*	75	59	0.04	
	Paris ...	?	62	NNW	1	0	?	?	58	58	-4	N	3	f	2	64	54	0.04	
	Brest ...	?	62	NNW	1	0	?	?	58	58	-4	N	3	f	2	64	54	0.04	
FRANCE AND NETHERLANDS.	Lorient ...	30.08	63	NNW	4	0	30.19	+16	60	58	-4	NNE	2	0	3	68	59	—	
	Rochefort ...	30.16	67	W	4	C	30.21	+06	64	63	-1	NW	4	C	2	74	59	0.16	
	Belfort ...	30.08	65	NW	1	6	30.09	-02	60	51	-5	NW	2	C	*	73	57	0.39	
	Lyons ...	30.09	69	NNW	2	6	30.12	0.0	61	59	-2	NNW	3	0	*	81	57	0.39	
	Nice ...	30.08	68	SW	4	C	30.04	-06	67	66	+1	E	1	C	0	79	63	—	
PENIN-SULA.	Perpignan ...	30.06	71	W	1	6	30.15	+03	67	60	-1	NW	3	0	*	81	67	—	
	Biarritz ...	30.19	69	NW	3	0	30.19	+07	66	61	-1	W	5	0	2	72	64	—	
	Corunna ...	30.15	68	NNW	5	6	30.10	-09	65	60	0	N	3	6	2	81	61	—	

For Explanation of Columns, see bottom of p 4.

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



# WEATHER CHARTS

for 8 a.m. on

WEDNESDAY

4<sup>TH</sup> SEPTEMBER

1889.

## BAROMETER, WIND AND SEA.

### EXPLANATION OF MAP

**BAROMETER**—Isobars are drawn for each tenth of an inch.

Changes since previous morning are stated in words.

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

— forces above 10; — forces 8 to 10;

— forces 6 to 7; — forces 1 to 4.

○ = dead calm.

**SEA DISTURBANCE**—Where considerable, is shown thus:

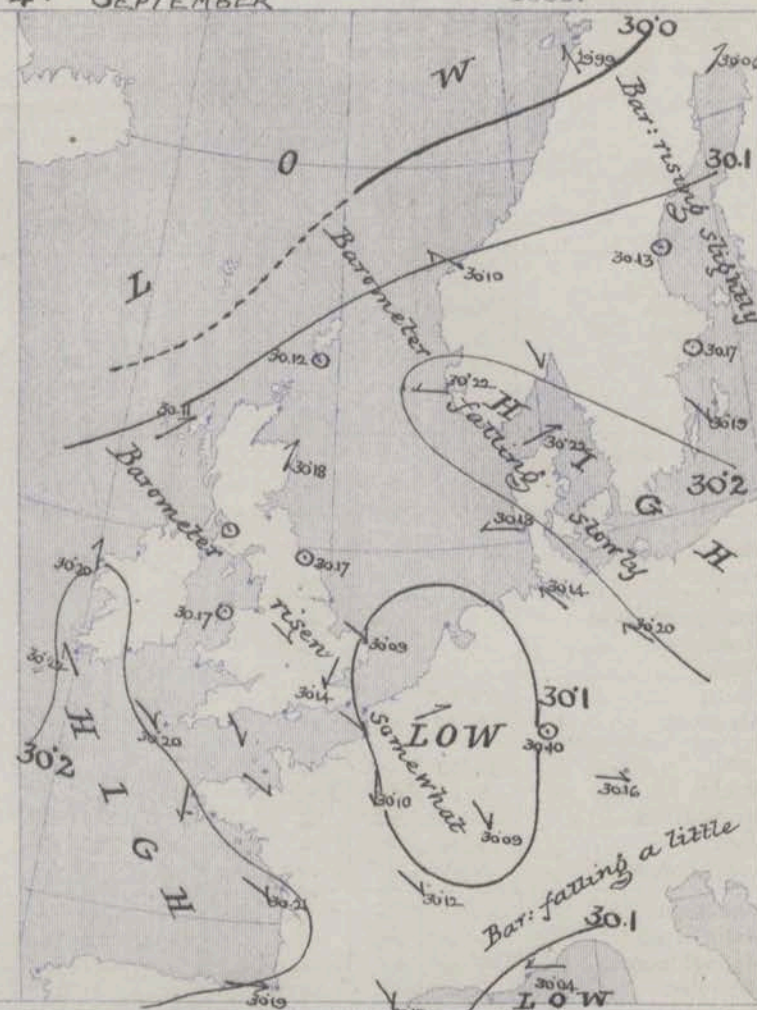
— = Rough. — = High.

## MEAN HEIGHT OF THE BAROMETER

at 8.0 a.m. for the month of September.

During the 15 Years: 1871—1885.

STATIONS.	MEAN READINGS.
Sumburgh Head .....	29.766
Stornoway .....	29.780
Wick .....	29.793
Nairn .....	29.800
Aberdeen .....	29.819
Leith .....	29.846
Shields .....	29.869
York .....	29.905
Loughborough .....	29.924
Ardrossan .....	29.850
Donaghadee .....	29.869
Holyhead .....	29.894
Liverpool .....	29.899
Parsonstown .....	29.904
Valencia .....	29.917
Roche's Point .....	29.915
Pembroke .....	29.915
Scilly .....	29.943
Jersey .....	29.955
Hurst Castle .....	29.960
Dover .....	29.941
LONDON .....	29.945
Oxford .....	29.935
Cambridge .....	29.931
Yarmouth .....	29.916



## TEMPERATURE, & WEATHER AT 8 A.M. WITH RAINFALL IN PAST 24 HOURS.

**TEMPERATURE**—Isotherms are drawn for each 1°. Changes since previous morning are stated in words.

**WEATHER** is shown by Letters of the Beaufort Scale.

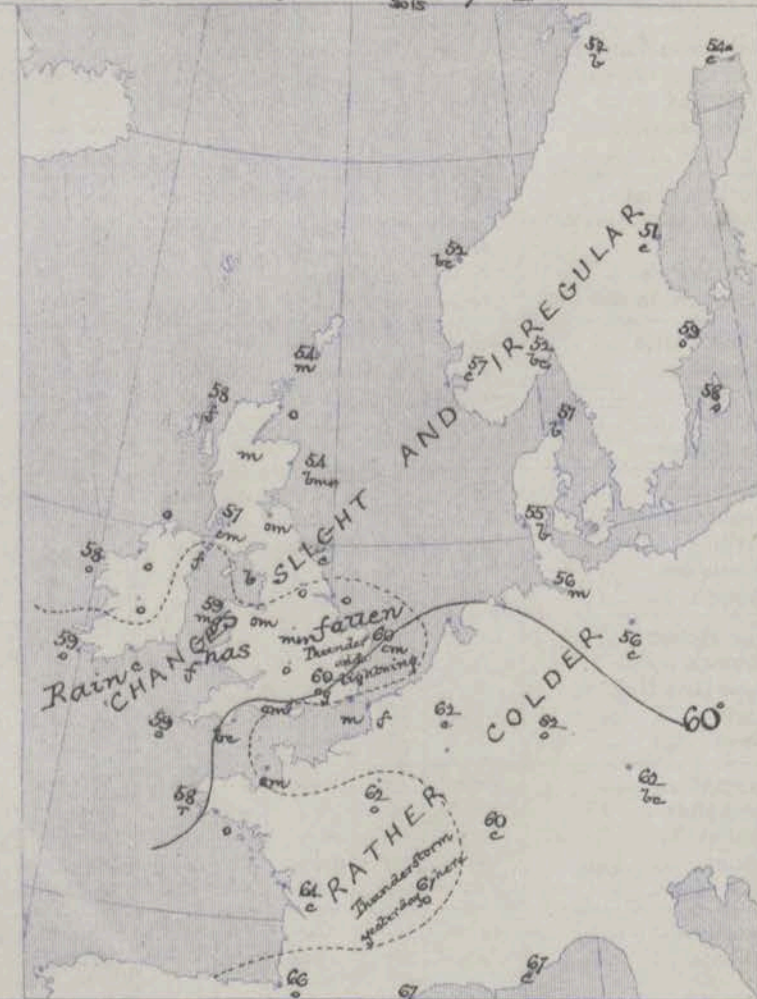
**RAINFALL**—A dotted line separates the districts in which rain has fallen from those where there has been none. Falls of 0.5 in. or more, are quoted in figures.

## 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	46.3	50.9	49.2	3.46
Stornoway .....	56.1	45.7	51.1	49.8	1.13
Wick .....	57.0	46.6	51.8	49.9	2.66
Nairn .....	59.0	46.8	51.2	48.8	2.73
Aberdeen .....	59.2	46.7	52.1	49.8	3.22
Leith.....	62.2	47.6	53.2	50.8	2.47
Shields .....	59.9	49.3	53.1	51.1	2.68
York .....	63.3	47.3	52.8	51.0	2.08
Loughborough .....	65.0	47.9	54.3	52.4	3.06
Ardrossan .....	59.7	49.6	53.5	51.3	3.57
Donaghadee.....	59.6	48.8	53.3	52.1	3.23
Holyhead.....	60.6	52.8	55.7	53.6	3.35
Liverpool .....	61.2	50.9	54.5	51.9	3.66
Parsonstown .....	61.6	47.5	53.1	51.1	3.49
Valencia .....	61.7	51.5	56.3	53.9	4.87
Roche's Point .....	61.9	51.0	55.4	53.2	4.39
Pembroke.....	60.2	53.1	56.2	53.8	3.89
Scilly .....	61.8	54.8	58.4	56.2	3.69
Jersey .....	65.2	54.9	59.8	57.1	3.51
Hurst Castle .....	64.2	52.2	57.2	55.8	3.35
Dover .....	62.9	54.0	57.9	55.3	2.84
LONDON .....	66.3	49.4	55.9	53.6	2.59
Oxford .....	63.8	49.1	54.3	52.3	2.91
Cambridge .....	65.5	48.1	54.4	52.9	2.48
Yarmouth .....	62.0	51.1	56.2	54.4	3.17

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





# GENERAL SITUATION AT 8 A.M.

## PRESSURE

Highest, 30.2 in: and more, in a high-pressure system lying over Germany and Denmark, and in another over the Bay of Biscay and Ireland.  
Lowest, 30.1 in: and less, in a shallow depression over Belgium and the east of France—30.0 in: and less, over the western part of England.  
Gradients very slight everywhere.  
Barometer rising in our Islands, falling over countries lying to the eastward of the North Sea.

## TEMPERATURE

Highest, 67° at Nîmes and Perpignan, 66° at Biarritz, 65° at Lisbon, 64° at Cork and Harwich, 63° at Hurst Castle, 62° at Paris, and 60° in London.  
Lowest, 51° at Harwich, 52° at Harlow, Christiansund and Lander, 54° at Naparanda, Sumbugh, Had and Abbeville, 57° at Shields and Parsonstown.  
Daily maxima recorded over our Islands yesterday were below 70° except at Hurst Castle.

## WIND

Very light generally—N<sup>ly</sup> to NW<sup>ly</sup> over England and France—SE<sup>ly</sup> in North Germany.  
Extremely variable elsewhere.

## WEATHER

Fine and bright in Norway and Denmark, cloudy elsewhere.  
Gloomy, misty, or foggy in several places.  
Rain has fallen except in the extreme north and northwest, and thunderstorms have occurred over France. Lightning was seen in London last night.

## SEA

Moderate at Scilly and Yarmouth, slight or smooth elsewhere.

## PROBABLE CHANGES IN SYSTEM NOW PREVALENT

A small but new anticyclone has begun to appear over Ireland and seems to be spreading. This is likely to produce fine weather again over our Islands, but with very light winds or calms, and local fogs.

## FORECASTS

For the 24 hours ending at NOON on 5<sup>TH</sup> SEPT 1889.

### DISTRICTS.

### FORECASTS.

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

Variable airs, changeable, close, fair as a whole.

NW<sup>ly</sup> airs and calms; weather improving but close generally—foggy tonight.

### DISTRICTS.

### FORECASTS

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

Same as Nos 3 to 5

Calms and S<sup>ly</sup> airs; fair, misty or foggy, close.

### WARNINGS

NONE ISSUED.

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



# YESTERDAY'S 2 P.M. REPORTS.

	Bar.	Ther:		Wind		Wea.	Sea		Bar.	Ther:		Wind		Wea.	Sea.
		D	W	D	F					D	W	D	F		
Skudesnaes ...									Holyhead ...	30.05	64	62	SEW	1	0
Sumburgh Head ...	30.13	56	53	SE	3	C	3		Valencia ...	30.11	63	60	NW	2	om
Stornoway ...	30.05	58	57	SE	2	0	2		Scilly ...	30.02	62	61	NW	1	C
Aberdeen ...	30.14	57	55	S	2	0	3		Jersey ...	30.06	67	65	SE	3	C
Shields ...	30.09	59	58	SE	2	C	2		Dungeness ...	30.01	64	62	W	4	C
Ardrossan ...	30.07	64	61	SEW	2	om	1		London ...	30.02	68	67	SW	2	0
Malin Head ...	30.02	59	58	SE	3	0	1		Yarmouth ...	30.02	64	62	SW	2	om
Mullaghmore ...	30.04	62	61	NW	2	omg	2		Rochefort ...	30.18	74	68	W	3	bc
Belmullet ...	30.06	60	59	NW	2	0g	*								

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

The reports for yesterday morning showed that a large low pressure system lay over Central Russia, and a complex series of shallow disturbances over the British Isles and north of France — the two systems being separated by a high pressure band of very irregular form which stretched from Spain across the south of France to North Germany, (Denmark and Scandinavia), containing a definite anticyclone which covered Denmark and the southern half of Norway. Gradients were slight and very variable. The winds reported were consequently very variable in direction, and in most places light in force. The S and SE breezes, however, which were felt over the northeastern parts of Ireland and Scotland, and the N breeze in the south of Norway, were both of moderate strength. The weather varied greatly; it was dull in the neighbourhood of the low pressure systems referred to, foggy, misty, or rainy in many parts of our Islands and France, but fine and bright over Spain, Southern and Central Europe, and over Denmark and Scandinavia. Thunderstorms had been very prevalent over the British Isles, France, and Austria on the previous night. Temperature exceeded 70° at most of the Mediterranean and Adriatic stations and at Constantinople, and was above 60° over France and the south of our Islands; elsewhere it was lower, but was below 50° over Northern Russia and in some parts of Poland only. The highest morning values were 77° at Aumale, 76° at Oron and Barcelona, 75° at La Cella, Malta and Brindisi, 74° at Trieste and 72° at Constantinople; the lowest were 42° at Archangel, 44° at St Petersburg, 46° at Kiepsio and Moscow, and 49° at Helsinki and Cracow.

Later on rain fell again in several parts of Ireland, England and France, and thunder and lightning occurred locally.

### 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, 5<sup>th</sup> September, 1889.*  
 Issued by the Meteorological Office, 63, 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.	
				Dirce.	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.	Dirce.	Force. (0 to 12.)		Weather.	Max.		Min.
SCANDINAVIA.	Haparanda ...	29.99	53	S	2	0	30.01	- .05	54	50	0	NW	2	b	*	57	36	-
	Hernösand ...	30.10	50	Z	0	6	30.20	+ .07	56	51	+ 5	Z	0	0	*	64	43	-
	Stockholm ...	30.20	57	Z	0	0	30.22	+ .05	57	53	- 2	W	2	c	*	72	54	-
	Wisby ...	30.25	55	NW	4	bc	30.26	+ .07	59	56	+ 1	W	2	c	*	61	54	-
	Bodö ...	29.93	51	SSW	4	r	30.12	+ .13	52	51	0	SW	4	0	2	52	48	0.35
	Christiansund	30.17	54	WSW	6	0	30.29	+ .19	54	53	+ 2	WSW	6	r	4	57	52	0.12
	Skudesnaes ...	30.28	54	Z	0	6	30.33	+ .11	57	55	0	NNW	2	bc	2	61	48	-
	Christiania Fjord (Fæder)	30.16	60	WSW	4	b	30.27	+ .08	56	54	+ 4	NNE	2	bc	2	63	?	-
	Skagen (The Scaw)	30.21	59	WSW	1	b	30.27	+ .08	57	55	0	W	1	b	1	64	50	-
	Fanö ...	30.26	54	Z	0	6	30.30	+ .12	56	54	+ 1	SE	2	b	*	68	50	-
BRITISH ISLANDS.	Sumburgh Head	30.18	58	Z	0	0	30.27	+ .15	52	52	- 2	SE	1	b	1	61	50	-
	Stornoway ...	30.17	60	SW	3	c	30.19	+ .08	57	57	- 1	Z	0	b	2	64	50	-
	Wick ...	30.20	58	S	1	0	30.24	+ .09	55	54	- 4	S	2	b	1	65	52	-
	Nairn ...	30.18	59	Z	0	m	30.23	+ .10	53	50	- 5	Z	0	0	0	65	50	-
	Aberdeen ...	30.21	54	S	1	m	30.30	+ .12	53	52	- 1	S	2	om	2	63	49	-
	Leith ...	30.21	53	NE	1	f	30.28	+ .09	52	52	- 3	NE	1	om	*	60	50	-
	Shields ...	30.22	57	ESE	1	0	30.29	+ .12	55	54	- 2	E	1	0	2	59	52	-
	Spurn Head ...	30.19	59	NNE	3	0	30.26	+ .13	59	58	0	NNE	3	0	3	60	56	-
	York ...	30.21	60	N	1	0	30.29	+ .14	53	52	- 6	N	1	b	*	68	47	-
	Loughborough	30.19	63	NE	1	0	30.28	+ .13	56	54	- 3	NE	2	ogm	*	65	56	-
GERMANY.	Ardrossan ...	30.20	60	NNW	1	c	30.26	+ .08	55	54	- 2	NNE	3	c f w	1	65	51	-
	Malin Head ...	30.20	58	E	1	c	30.21	+ .05	57	55	- 1	S	3	bmw	1	60	54	-
	Mullaghmore ...	30.21	60	W	1	b	30.21	+ .02	61	58	+ 3	SSE	2	0	2	62	52	-
	Belmullet ...	30.21	62	SSW	2	0	30.18	- .02	60	60	+ 2	SW	1	0	*	65	57	0.01
	Donaghadee ...	30.22	59	NE	2	b	30.26	+ .07	57	57	+ 1	SW	2	m	0	60	55	-
	Barrow-in-Furness	30.19	61	NW	2	0	30.24	+ .09	58	57	+ 3	NE	1	0	*	64	55	-
	Liverpool (Bidston)	30.20	60	NNW	1	0	30.27	+ .11	58	57	0	NNW	1	f	1	64	57	-
	Holyhead ...	30.21	57	Z	0	fg	30.26	+ .09	56	56	- 3	Z	0	fg	0	63	53	0.01
	Parsonstown ...	30.22	64	Z	0	c	30.25	+ .05	58	56	+ 1	Z	0	c	*	67	50	-
	Valencia ...	30.21	61	SE	4	cm	30.23	+ .01	59	58	0	SW	2	om	2	62	58	-
FRANCE AND NETHERLANDS.	Roche's Point...	30.23	60	SSE	1	0	30.24	+ .05	58	58	- 1	S	1	dm	3	61	54	0.04
	Pembroke (St. Ann's Hd.)	30.22	59	NW	1	0	30.26	+ .08	56	55	- 3	SE	1	f	1	63	55	0.01
	Scilly ...	30.23	60	NW	1	0	30.24	+ .04	60	59	+ 1	Z	0	0	1	63	58	-
	Prawle Point ...	30.21	62	NNW	1	0	30.25	+ .07	60	59	- 4	NNW	1	ogm	0	66	58	0.02
	Jersey (St. Aubin's)	30.20	62	NNW	3	c	30.24	+ .06	62	60	+ 1	NNW	2	om	2	62	58	-
	Hurst Castle ...	30.18	66	NNW	1	m	30.24	+ .09	61	60	- 2	N	2	m	1	69	55	-
	Dungeness ...	30.13	63	W	2	0	30.19	+ .09	61	60	0	N	2	m	1	68	55	-
	London ...	30.17	64	NNW	1	0	30.24	+ .10	59	57	- 1	ENE	1	og	*	69	58	-
	Oxford ...	30.21	59	NW	1	0	30.27	+ .12	57	56	- 2	NNW	2	0	*	70	57	-
	Cambridge ...	30.17	62	NNW	1	0	30.26	+ .12	57	56	- 2	N	1	0	*	65	56	-
PENINSULA.	Yarmouth ...	30.14	61	N	1	cm	30.21	+ .12	61	60	+ 1	NNE	2	cm	4	64	58	0.01
	Cuxhaven ...	30.17	57	ESE	3	b	30.26	+ .12	56	54	0	E	3	b	*	65	56	-
	Berlin ...	30.21	62	ESE	3	c	30.26	+ .06	54	50	- 2	NE	3	b	*	70	50	-
	Wiesbaden ...	*	*	*	*	*	30.14	+ .04	63	61	+ 1	Z	0	0	*	68	59	0.20
	Munich ...	30.15	57	W	2	r	30.15	- .01	58	58	- 4	Z	0	0	*	70	55	0.83
	The Helder ...	30.15	62	NE	1	f	30.23	-	59	55	-	ENE	1	bc	2	64	59	-
	Brussels (9 a.m.)	*	*	*	*	*	30.20	+ .09	61	60	+ 1	NNW	1	0	*	71	59	-
	Cape Gris Nez	*	*	*	*	*	?	?	62	61	+ 1	E	1	m	0	66	59	-
	Paris ...	30.13	66	SW	2	bc	30.21	+ .11	59	58	- 3	N	2	0	*	72	59	0.04
	Brest ...	?	60	NNW	3	0	?	?	58	57	0	N	1	m	2	64	55	?
PENINSULA.	Lorient ...	30.21	63	NNW	2	0	30.24	+ .05	59	57	- 1	NNE	2	0	2	66	57	-
	Rochefort ...	30.22	68	NNW	4	b	30.25	+ .04	60	60	- 4	NE	3	m	2	73	55	-
	Belfort ...	30.08	64	NW	2	r	30.10	+ .01	63	53	+ 3	W	1	0	*	69	56	0.08
	Lyons ...	30.12	66	NNW	2	0	30.14	+ .02	61	58	0	NNW	2	bc	*	72	56	-
	Nice ...	30.02	67	SE	1	c	30.02	- .02	63	61	- 4	ESE	2	c	1	81	61	0.04
	Perpignan ...	30.12	72	NW	3	0	30.13	- .02	69	64	+ 2	NW	3	b	*	75	64	-
	Biarritz ...	30.22	68	NNW	3	c	30.20	+ .01	63	61	- 3	ESE	3	0	2	73	61	-
	Corunna ...	*	*	*	*	*	30.14	- .09	64	62	- 1	NE	1	f	4	70	55	-
	Lisbon ...	30.03	69	NNW	4	b	30.03	- .07	64	60	- 1	NNW	2	b	2	82	61	-



## 1889.

### EXPLANATION OF MAP

Changes since previous morning are stated in words.

$\longleftrightarrow$  = forces above 10;  $\longleftrightarrow$  = forces 8 to 10;

$\longrightarrow = \text{forces 5 to 7}; \dashrightarrow = \text{forces 1 to 4}.$

SEA DISTURBANCE—Where considerable, is shown thus:

$\approx$  Rough,  $\nabla$  = High

at 8.0 a.m. for the month of September.

During the 15 Years: 1871—1885.

A hand-drawn weather map of Europe and the North Atlantic. The map shows a high-pressure system (H I G H) centered over the British Isles, with a low-pressure system (L O W) located to the southwest, near the Azores. Isobars are drawn around these systems, with values ranging from 30.0 to 30.4. Wind directions are indicated by arrows, generally blowing from the southwest towards the high. Handwritten notes include "Barometer risen" in the lower left, "generally" in the upper right, and "H I G H very" in the center. The word "LOW" is written in large letters near the low-pressure system. The map also shows the outlines of Europe, Africa, and the Americas.

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.)

Map of Europe and Western Asia with handwritten weather notes and temperature readings.

Handwritten notes:

- Rain has fallen
- A LITTLE WARMER
- RATHER
- GOLDEN
- RAIN HAS FALLEN

Temperature readings and other markings:

- 60°
- 59°
- 58°
- 57°
- 56°
- 55°
- 54°
- 53°
- 52°
- 51°
- 50°
- 49°
- 48°
- 47°
- 46°
- 45°
- 44°
- 43°
- 42°
- 41°
- 40°
- 39°
- 38°
- 37°
- 36°
- 35°
- 34°
- 33°
- 32°
- 31°
- 30°
- 29°
- 28°
- 27°
- 26°
- 25°
- 24°
- 23°
- 22°
- 21°
- 20°
- 19°
- 18°
- 17°
- 16°
- 15°
- 14°
- 13°
- 12°
- 11°
- 10°
- 9°
- 8°
- 7°
- 6°
- 5°
- 4°
- 3°
- 2°
- 1°
- 0°

Other markings:

- f
- m
- c
- am
- cm
- gm
- mv
- ov
- w
- v
- h

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



# GENERAL SITUATION AT 8 A.M.

PRESSURE	Highest, 30.2 in.; and more, over nearly the whole of Northwestern Europe, 30.3 in. and more, over the greater part of the North Sea. Lowest, 30.1 in. and less, over Switzerland and also over the east of England — and less than 30 in. off our extreme northwest coasts. Gradients very slight. Barometer rising slightly in east and north, steady in west.
TEMPERATURE	Highest, 68° at Perpignan, 64° at Lisbon, 63° at Nice, Biarritz and Marseilles, and 62° at Hurst Castle, Yarmouth, and Malborough. Lowest, 52° at Bodo, Sumburgh Head, and 53° at Aberdeen, 54° at St. Peter's and Christiansund, and 55° at Shields. The thermometer rose to 70° at Oxford yesterday, and to between 65° and 69° at our other inland stations.
WIND	Very light generally, and calm in many places; strong, however, at Christiansund. Chiefly S. in Ireland — N. over England and France. SW. in the northwest of Norway — very variable elsewhere.
WEATHER	Clear in a few places, cloudy, gloomy, and misty or foggy elsewhere. Air very damp generally, rain is falling at Christiansund, and drizzling mist at Rocher Point. Heavy rain has fallen at Munich, and a smaller amount in the northwest of Norway.
SEA	Moderate at Yarmouth, slight or smooth elsewhere.

## PROBABLE CHANGES IN SYSTEM NOW PREVALENT

No important change is indicated at present beyond the alternations of gloomy and clear weather at many of our stations.

## FORECASTS

For the 24 hours ending at NOON on 6<sup>TH</sup> SEP<sup>R</sup> 1889.

DISTRICTS.	FORECASTS.	DISTRICTS.	FORECASTS
0 { SCOTLAND NORTH	{ S. breezes, light and variable; foggy to fine.	6 { SCOTLAND WEST	{ S. breezes, light or moderate; dull to fine.
1 { SCOTLAND EAST		7 { ENGLAND N.W.	
2 { ENGLAND N.E.	{ W. and Varying airs or calms, weather varying — gloomy to fine and bright.	8 { ENGLAND S.W.	Varying and S. airs; foggy to fine.
3 { ENGLAND EAST		9 { IRELAND NORTH	{ S. breezes, light or moderate; fair in east, showery in west.
4 { MIDLAND COUNTIES		0 { 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:	Ther:		Wind		Wea:	Sea		Bar.	Ther:		Wind		Wea:	Sea.
		D	W	D	F					D	W	D	F		
Skudesnaes ...	30.16	61	57	2	0	0	2	Holyhead ...	30.21	60	59	rw	2	mg	1
Sumburgh Head ...	30.17	59	57	2	0	0	0	Valencia ...	30.23	62	59	sse	3	om	3
Stornoway ...	30.17	64	63	sw	2	c	2	Scilly ...	30.23	63	61	rw	4	om	4
Aberdeen ...	30.21	61	57	s	2	bm	2	Jersey ...	30.22	62	60	rw	2	0	2
Shields ...	30.22	58	57	fine	1	0	2	Dungeness ...	30.13	66	62	e	2	b	1
Ardrossan ...	30.20	65	61	rw	1	0	1	London ...	30.16	66	59	rw	3	b	2
Malin Head ...	30.21	59	58	w	1	0	0	Yarmouth ...	30.12	64	62	rw	1	em	3
Mullaghmore ...	30.22	61	56	w	2	0	2	Rocheport ...	30.19	72	68	rw	4	c	2
Belmullet ...	30.23	65	60	sw	5	bc	2								

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

The reports for yesterday morning showed that pressure exceeded 30 in. in two anticyclonic systems, one lying over Germany, the Baltic, Denmark, and the south of Sweden, the other over the Bay of Biscay and Ireland, the two systems being separated by a shallow low-pressure system lying over the Netherlands, Belgium and the east of France. To the eastward and northward readings decreased to a little below 29.9 in. over Central Russia and to a little below 30.0 in. over Lapland. The winds were consequently very light — chiefly N<sup>W</sup> to NW<sup>W</sup> over England and the west of France, S<sup>W</sup> in the west of Ireland, and very variable elsewhere. The weather was fine and bright in the extreme southwest and south, and over Hungary, as well as in several localities in the other parts of Europe; elsewhere it was dull and gloomy, and fog or haze prevailed locally in many parts of western and southern Europe. Thunder and lightning had been very prevalent in the east and south of France, and at a few stations the rainfall had been large. Temperature was below 50° over the greater part of Russia, below 60° over Northern Europe and the greater part of the British Isles, and very little above 60° over the south of England, France, and Spain. It exceeded 70°, however, at several of the Mediterranean stations. The highest individual values were 81° at La Caille, 77° at Barcelona, Ajaccio and Brindisi, 76° at Malta, 75° at Cagliari, 71° at Genoa, and 70° at Algiers, Palermo, Leghorn, Pesaro and Bilbao, 69° at Trieste and Constantinople. The lowest was 43° at Uleaborg, Archangel and Moscow, 45° at St. Petersburg, 46° at Kiev and Czaerow, 49° at Lemberg, Prague and Warsaw, 51° at Herisand, 52° in the north-west of Norway, and 54° at Sumburgh Head and Aberdeen.

Later on the high-pressure area in the west spread northward and united with that over Germany and Scandinavia, while the low-pressure system over Eastern France moved S<sup>W</sup> to South Germany. Heavy rain fell at Munich.

### 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, 6<sup>th</sup> September, 1889.*  
 Issued by the Meteorological Office, 63, Victoria Street, London. *R. H. SCOTT, Secretary.*

STATIONS.	YESTERDAY EVENING.						8 A.M. TO DAY.										PAST 24 HOURS		
	Barometer at 3 <sup>rd</sup> P. and Sea Level.	Temp. in Shade.	WIND.			BAROMETER.		SHADE TEMP.			WIND.			Sea. (0 to 2.)	SHADE TEMP.				
			Direc.	Force. (0 to 12.)	Weather.	Reading at 3 <sup>rd</sup> P. and Sea Level.	Difference from 8 a.m. yesterday.	Dry.	Wet.	Difference from 8 a.m. yesterday.	Direc.	Force. (0 to 12.)	Weather.		Max.	Min.	Amount of Rainfall.		
SCANDINAVIA.	Haparanda ...	30.10	52	SW	2	bc	30.24	+1.3	53	51	-1	N	2	0	*	61	50	.	
	Hernösand ...	30.28	58	N	2	b	30.37	+1.7	54	51	-2	N	2	0	*	68	48	.	
	Stockholm ...	30.29	53	Z	0	b	30.86	+1.4	50	50	-7	Z	0	0	*	64	50	.	
	Wisby ...	30.25	58	WSW	2	0	30.30	+0.4	57	54	-2	E	6	5	*	?	52	.	
	Bodö ...	30.30	51	SW	2	0	30.38	+2.8	53	50	+1	SW	2	0	1	?	50	0.04	
	Christiansund	30.38	55	Z	0	bc	30.39	+1.0	53	52	-1	ESE	1	0	2	57	48	0.04	
	Skudesnaes ...	30.38	55	Z	0	bc	30.38	+0.5	54	54	-3	NNW	2	3	63	52	.		
	Christiania Fjord (Færder)	30.32	61	N	2	0	30.36	+0.9	59	56	+3	N	3	2	63	?	.		
	Skagen (The Scaw)	30.32	59	NE	1	b	30.34	+0.7	61	59	+4	NE	1	0	0	63	55	.	
	Fanö ...	30.32	54	NNW	2	b	30.32	+0.2	57	55	+1	N	2	0	*	64	52	.	
BRITISH ISLANDS.	Sumburgh Head	30.28	52	SSE	2	0	30.33	+0.6	52	52	0	SSE	1	0	2	55	50	.	
	Stornoway ...	30.20	62	SW	3	b	30.24	+0.5	59	58	+2	S	2	0	2	64	51	.	
	Wick ...	30.26	59	S	2	b	30.33	+0.9	57	56	+2	S	2	0	1	62	48	.	
	Nairn ...	30.22	60	Z	0	m	30.29	+0.6	56	56	+3	Z	0	m	0	65	49	.	
	Aberdeen ...	30.32	53	S	2	bm	30.37	+0.7	54	53	+1	S	2	0m	2	56	53	.	
	Leith ...	30.28	54	NW	1	m	30.36	+0.8	54	53	+2	E	1	0m	*	57	51	.	
	Shields ...	30.30	58	ESE	2	0	30.35	+0.6	55	55	0	S	1	cm	2	61	53	.	
	Spurn Head ...	30.28	59	NE	2	c	30.35	+0.9	60	58	+1	ENE	3	bm	3	61	54	.	
	York ...	30.33	65	E	1	bc	30.37	+0.8	55	54	+2	E	1	bc	*	70	50	.	
	Loughborough	30.28	64	NE	1	0	30.35	+0.7	57	55	+1	NE	2	cm	*	66	54	.	
GERMANY.	Ardrossan ...	30.26	62	NE	3	of	30.32	+0.6	56	55	+1	NE	3	ofw	2	67	53	.	
	Malin Head ...	30.20	63	S	2	om	30.23	+0.2	58	57	+1	S	3	bm	1	64	56	.	
	Mullaghmore ...	30.20	65	SE	1	om	30.24	+0.3	59	57	-2	SSE	3	om	2	65	58	0.01	
	Belmullet ...	30.20	62	SW	2	c	30.18	0.0	60	59	0	SSE	3	0	*	65	58	.	
	Donaghadee ...	30.27	58	SSW	2	c	30.32	+0.6	54	54	-3	SE	2	0	0	61	53	.	
	Barrow-in-Furness	30.24	64	NW	2	bc	30.30	+0.6	57	56	-1	NE	1	b	*	68	55	.	
	Liverpool (Bidston)	30.27	58	NNW	1	b	30.32	+0.5	59	56	+1	ESE	2	bm	1	69	56	.	
	Holyhead ...	30.27	58	NW	1	mq	30.30	+0.4	56	56	0	Z	0	gf	0	61	54	0.01	
	Parsonstown ...	30.23	64	SE	1	0	30.27	+0.2	57	55	-1	SE	1	0	*	68	56	.	
	Valencia ...	30.22	61	SSE	3	0	30.23	0.0	60	59	+1	SSE	4	dm	4	64	57	0.01	
FRANCE AND NETHERLANDS.	Roche's Point...	30.25	58	SSE	3	rm	30.26	+0.2	58	57	0	SSE	3	om	3	61	56	0.10	
	Pembroke (St. Ann's Hd.)	30.27	58	ENE	2	bc	30.27	+0.1	58	57	+2	E	2	m	1	62	54	.	
	Seilly ...	30.24	61	Z	0	c	30.23	-0.1	60	60	0	Z	0	of	1	65	55	.	
	Prawle Point...	30.26	63	Z	0	c	30.26	+0.1	60	59	0	ENE	1	om	0	68	57	.	
	Jersey (St. Aubin's)	30.23	66	NNE	3	bm	30.24	0.0	63	61	+1	ENE	2	om	2	69	57	.	
	Hurst Castle ...	30.25	63	ENE	1	m	30.27	+0.3	60	58	-1	ENE	4	om	2	67	55	.	
	Dungeness ...	30.21	64	NNE	2	c	30.23	+0.4	63	60	+2	ENE	4	b	3	67	55	.	
	London ...	30.26	63	NE	1	ogm	30.30	+0.6	58	57	-1	NNE	1	0	*	63	55	.	
	Oxford ...	30.29	60	NE	1	0	30.32	+0.5	57	55	0	NE	3	c	*	63	54	.	
	Cambridge ...	30.27	63	N	1	0	30.33	+0.7	55	54	-2	NE	1	0	*	65	50	.	
PENINSULA.	Yarmouth ...	30.25	62	NE	2	b	30.31	+1.0	60	58	-1	ENE	4	b	3	64	57	.	
	Cuxhaven ...	30.29	59	ENE	3	c	30.29	+0.3	58	56	+2	NE	2	c	*	64	?	.	
	Berlin ...	30.23	62	E	3	b	30.23	-0.3	54	50	0	ENE	2	0	*	68	50	.	
	Wiesbaden ...	*	*	*	*	*	30.17	+0.3	59	54	-4	Z	0	b	*	75	52	.	
	Munich ...	30.15	58	Z	0	r	30.12	-0.3	56	56	-2	NW	2	0	*	64	55	0.83	
	The Helder ...	30.26	62	ENE	2	b	30.30	+0.7	61	57	+2	ENE	2	b	3	64	59	.	
	Brussels (9 a.m.)	*	*	*	*	*	30.23	+0.3	63	52	+2	NE	3	b	*	71	51	.	
	Cape Gris Nez	?	62	NE	2	m	?	?	57	54	-5	ENE	4	b	2	66	55	.	
	Paris ...	30.20	64	N	2	b	?	?	59	58	0	N	2	0	*	?	57	.	
	Brest ...	?	62	NE	2	0	?	?	60	59	+2	E	2	m	2	64	54	.	
PENINSULA.	Lorient ...	30.21	64	NNW	2	0	30.20	-0.4	59	59	0	E	2	m	2	68	57	.	
	Rocheport ...	30.22	67	NW	4	m	30.21	-0.4	60	60	0	NE	2	bc	2	75	55	.	
	Belfort ...	30.09	60	NW	1	c	30.11	+0.1	53	46	-10	NW	1	bc	*	66	46	.	
	Lyons ...	30.12	65	N	3	c	30.10	-0.4	60	59	-1	NNW	2	b	*	?	?	.	
	Nice ...	30.02	67	SSE	2	bc	30.08	-0.2	65	63	+2	E	2	b	0	77	61	.	
	Perpignan ...	30.08	75	NW	2	c	30.08	-0.5	68	61	-1	NW	2	b	*	81	59	.	
	Biarritz ...	30.14	69	NNE	2	b	30.12	-0.8	61	60	-2	E	2	m	1	73	57	.	
	Corunna ...	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	.	
	Lisbon ...	30.03	68	NNW	3	b	30.08	+0.5	64	61	0	Z	0	c	2	79	59	.	

For Explanation of Columns, see bottom of p. 4.

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



# WEATHER CHARTS

for 8 a.m. on

Friday,

6<sup>th</sup> September,

1889.

## BAROMETER, WIND AND 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:

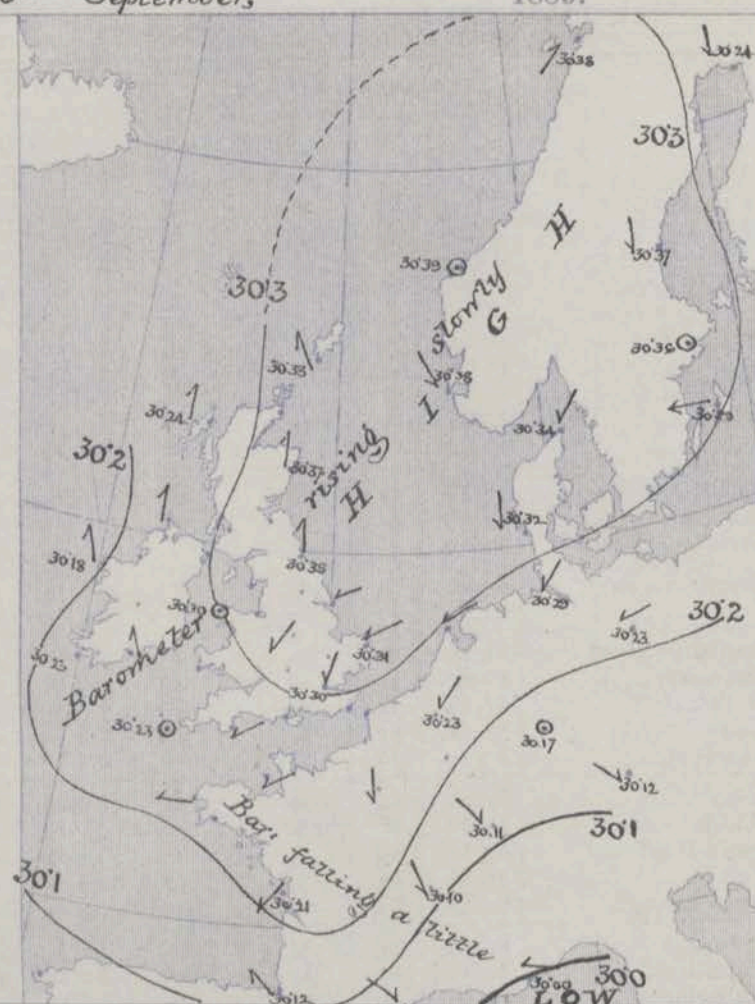
— = Rough. — = High.

## MEAN HEIGHT OF THE BAROMETER

at 8.0 a.m. for the month of September.

During the 15 Years: 1871—1885.

STATIONS.	MEAN READINGS.
Sumburgh Head .....	29.766
Stornoway .....	29.780
Wick .....	29.793
Nairn .....	29.809
Aberdeen .....	29.819
Leith .....	29.846
Shields .....	29.869
York .....	29.905
Loughborough .....	29.924
Ardrossan .....	29.850
Donaghadee .....	29.869
Holyhead .....	29.894
Liverpool .....	29.899
Parsonstown .....	29.904
Valencia .....	29.917
Roche's Point .....	29.915
Pembroke .....	29.913
Silly .....	29.943
Jersey .....	29.955
Hurst Castle .....	29.960
Dover .....	29.941
LONDON .....	29.945
Oxford .....	29.935
Cambridge .....	29.931
Yarmouth .....	29.916



## 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.

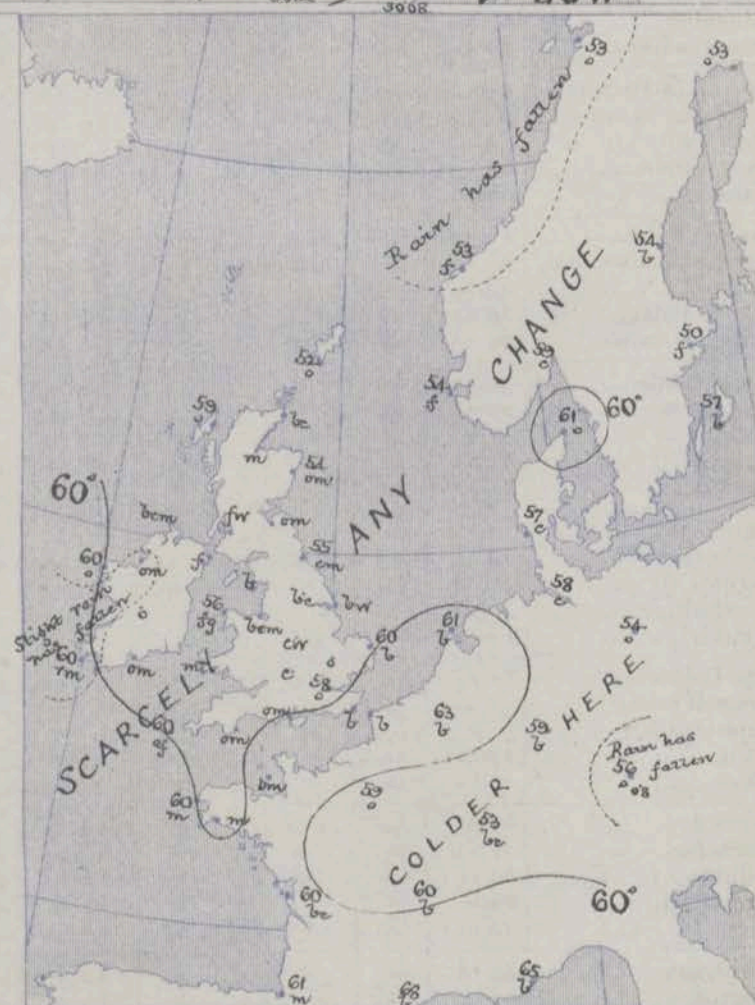
**RAINFALL**—A dotted line separates the districts in which rain has fallen from those where there has been none. Falls of 0.5 in. or more, are quoted in figures.

### 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	46.3	50.9	49.2	3.46
Stornoway .....	56.1	45.7	51.1	49.8	4.13
Wick .....	57.0	45.5	51.8	49.9	2.06
Nairn .....	59.0	46.8	51.2	48.8	2.73
Aberdeen .....	59.2	46.7	52.1	49.8	3.22
Leith .....	62.2	47.6	53.2	50.8	2.47
Shields .....	59.9	49.3	53.1	51.1	2.58
York .....	63.3	47.8	52.8	51.0	2.98
Loughborough .....	65.0	47.9	54.3	52.4	3.06
Ardrossan .....	59.7	49.6	53.5	51.3	3.87
Donaghadee .....	59.0	48.8	53.3	52.1	3.22
Holyhead .....	60.6	52.8	55.7	53.6	3.35
Liverpool .....	61.2	50.9	54.5	51.9	3.56
Parsonstown .....	61.0	47.5	53.1	51.1	3.49
Valencia .....	61.7	51.5	56.3	53.9	4.87
Roche's Point .....	61.0	51.0	53.4	53.2	4.39
Pembroke .....	60.2	53.1	56.2	53.8	3.89
Silly .....	61.8	54.8	58.4	56.2	3.69
Jersey .....	65.2	54.9	59.8	57.1	3.51
Hurst Castle .....	64.2	52.2	57.2	55.8	3.35
Dover .....	62.9	53.0	57.9	55.3	2.86
LONDON .....	66.3	49.4	55.9	53.6	2.59
Oxford .....	63.8	49.1	54.2	52.3	2.91
Cambridge .....	65.5	48.1	54.4	52.9	2.48
Yarmouth .....	62.0	51.1	56.2	54.4	3.17

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





# GENERAL SITUATION AT 8 A.M.

## PRESSURE

Highest, 30.3 in. and more, over the whole of Scandinavia, the North Sea and the greater part of England.  
 Lowest, 30.2 in. and less, off the northwest of Ireland, 30.1 in. and less, over the Gulf of Genoa.  
 Gradients very slight. Barometer falling slightly over Germany and the south of France, rising elsewhere.

## TEMPERATURE

Highest, 65° at Nice, 64° at Lisbon, 63° at Birmensley, 60° at Spinn Head, Yarmouth, Scilly, and Valencia.  
 Lowest, 52° at Sumburgh Head, 53° at Belfort, 54° at Dublin, Donaghadee, Leith, and Aberdeen.  
 Daily maxima in our Islands were below 60° except at York.

## WIND

Light generally — N<sup>ly</sup> on the eastern shores of the North Sea, and some parts of Sweden, NE<sup>ly</sup> over England and the Channel.  
 NW<sup>ly</sup> in South Germany, SE<sup>ly</sup> and S<sup>ly</sup> in Ireland — S<sup>ly</sup> in Scotland — SW<sup>ly</sup> at Bodø.

## WEATHER

Fine over the Netherlands and greater part of England — hazy over the Channel.  
 Dull and misty in Ireland and Scotland — foggy in the west of Norway.  
 A tenth of an inch of rain has fallen at Rother Point, and a larger quantity over South Germany.

## SEA

Moderate at Valencia, slight or smooth elsewhere.

## PROBABLE CHANGES IN SYSTEM NOW PREVALENT

There is no indication of any important change.

## FORECASTS

For the 24 hours ending at NOON on 7<sup>th</sup> SEPT 1889.

### DISTRICTS.

### FORECASTS.

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

S<sup>ly</sup> breezes, light; fine, hazy at times.  
 NE<sup>ly</sup> breezes, light; fine, dull and hazy inland at times.

### DISTRICTS.

### FORECASTS

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

S<sup>ly</sup> and Varying breezes, light; fair.  
 Calms and Variable airs; fine.  
 S<sup>ly</sup> breezes, light; dull, misty at times.

### WARNINGS

NONE ISSUED.

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



# YESTERDAY'S 2 P.M. REPORTS.

	Bar:	Ther:		Wind		Wea:	Sea		Bar:	Ther:		Wind		Wea:	Sea.
		D	W	D	F					D	W	D	F		
Skudesnaes ...	30.34	63	58	NW	4	bc	2	Holyhead ...	30.27	60	58	NW	1	m	1
Sumburgh Head ...	30.29	54	63	SE	2	o	2	Valencia ...	30.23	63	60	SE	2	cm	2
Stornoway ...	30.22	62	61	SW	4	bc	4	Scilly ...	30.25	65	62	SE	1	c	2
Aberdeen ...	30.33	54	52	SE	3	om	2	Jersey ...	30.23	68	63	NNE	2	bc	2
Shields ...	30.30	60	58	E	2	b	2	Dungeness ...	30.21	?	?	NNE	2	bc	1
Ardrossan ...	30.27	67	62	W	0	b	0	London ...	30.25	62	59	NE	1	o	2
Malin Head ...	30.21	63	60	S	2	o	0	Yarmouth ...	30.23	63	61	NNE	2	c f	4
Mullaghmore ...	30.21	63	61	NW	1	or	1	Rochefort ...	30.24	73	68	NW	1	m	2
Belmullet ...	30.20	63	60	SW	2	bc	2								

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

The reports for yesterday morning showed that a large high-pressure system, in which readings varied from 30.20 in. to 30.35 in., covered nearly the whole of France, the Bay of Biscay, the British Isles, North Sea, Scandinavia, Baltic, North Germany, Poland, Austria, and Southeastern Europe, while very shallow low-pressure systems were found over the Mediterranean and Lapland. The winds reported were consequently very light everywhere, and though chiefly E at the southern stations, and S<sup>W</sup> in the far west, were extremely variable as a whole; in many places calm were reported. Weather was fine and bright over Russia and at a few stations in several other parts of Europe, but was, as a rule, cloudy and gloomy elsewhere, with damp mist in several parts of the British Islands. Over the north of Italy and South Germany a good deal of rain fell. Temperature was very uniform, the highest morning readings reported being 76° at Cagliari, 75° at Brindisi, Maastricht and Barcelona, 73° at Vienna, 70° at Annaberg and Singuine, while the lowest were 42° at Archangel, 43° at Moscow, 45° at Kuopio, and 47° at Uleaborg, Warsaw, Lemberg, Kiev and Kharkov.

Little change occurred later.

### EXPLANATION OF COLUMNS GIVEN ON PAGE 1.

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

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

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

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# DAILY WEATHER REPORT.

for *Saturday, 7<sup>th</sup> September, 1889*  
 Issued by the Meteorological Office, 63, 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.	
				Dirce.	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.	Dirce.	Force. (0 to 12.)			Max.	Min.		
SCANDINAVIA.	Haparanda ...	30.30	53	20	0	bc	30.27	+ .03	50	49	- 3	20	0	b	*	64	46	-	
	Hernösand ...	30.41	51	20	0	bc	30.40	+ .03	51	49	- 2	20	0	b	*	70	46	-	
	Stockholm ...	30.44	54	ESE	2	c	30.46	+ .10	52	51	+ 2	W	2	b	*	70	43	-	
	Wisby ...	30.40	52	E	4	b	30.44	+ .14	57	55	0	ENE	4	b	*	64	50	-	
	Bodö ...	30.44	53	20	0	0	30.45	+ .07	52	50	- 1	SW	4	T	2	55	50	-	
	Christiansund	30.41	49	WNW	2	m	30.43	+ .04	49	48	- 4	20	0	b	2	54	46	0.04	
	Skudesnaes ...	30.41	55	20	0	0	30.44	+ .06	58	54	+ 4	ENE	2	c	2	68	52	-	
	Christiania Fjord (Færder)	30.40	62	ENE	2	0	30.45	+ .09	57	54	- 2	ENE	2	c	1	63	55	-	
	Skagen (The Scaw)	30.36	60	ENE	2	b	30.42	+ .08	59	55	- 2	SE	2	b	2	64	57	-	
	Fanö ...	30.30	56	E	4	b	30.32	00	56	54	- 1	ENE	5	b	*	68	52	-	
BRITISH ISLANDS.	Sumburgh Head	30.35	52	SSE	1	0	30.38	+ .03	51	50	- 1	E	2	0	2	55	49	-	
	Stornoway ...	30.25	61	20	0	bc	30.24	00	55	55	- 4	20	0	b	2	64	46	-	
	Wick ...	30.30	56	S	1	b	30.34	+ .01	56	55	- 1	S	3	b	1	62	52	-	
	Nairn ...	30.27	59	20	0	m	30.29	00	49	49	- 7	20	0	b	0	66	40	-	
	Aberdeen ...	30.35	64	SSE	2	bm	30.35	02	54	53	0	E	2	c	3	60	47	-	
	Leith ...	30.31	54	E	1	m	30.30	06	54	53	0	E	1	om	*	56	52	-	
	Shields ...	30.32	57	E	2	b	30.27	08	55	54	0	20	0	c	2	60	48	-	
	Spurn Head ...	30.37	58	NE	2	b	30.23	12	59	57	- 1	NE	2	c	3	62	55	-	
	York ...	30.34	63	E	1	b	30.27	10	56	54	+ 1	NW	1	0	*	72	49	-	
	Loughborough	30.30	63	ENE	2	b	30.24	11	56	53	- 1	ENE	2	om	*	73	52	-	
BRITISH ISLANDS.	Ardrossan ...	30.28	63	ENE	2	bm	30.26	06	53	52	- 3	ENE	3	b	2	67	50	-	
	Malin Head ...	30.23	62	SSE	2	b	30.17	06	56	54	- 2	SSE	3	bm	1	66	54	-	
	Mullaghmore ...	30.22	65	ENE	1	om	30.15	09	60	56	+ 1	E	4	c	2	66	54	-	
	Belmullet ...	30.19	63	SW	1	bc	30.10	08	60	57	0	SE	1	0	*	66	57	-	
	Donaghadee ...	30.28	60	S	2	b	30.24	08	58	57	+ 4	ESE	3	m	1	61	53	-	
	Barrow-in-Furness	30.27	64	NE	1	b	30.23	07	55	52	- 2	E	3	b	*	68	51	-	
	Liverpool (Bidston)	30.28	64	ESE	2	b	30.25	07	55	52	- 4	SE	1	bm	2	67	49	-	
	Holyhead ...	30.25	63	E	1	cm	30.20	10	59	55	+ 3	E	3	b	2	68	52	-	
	Parsonstown ...	30.23	63	20	0	0	30.14	13	59	56	+ 2	20	0	bc	*	68	54	-	
	Valencia ...	30.18	61	SSE	2	cm	30.08	15	61	59	+ 1	ESE	1	om	1	63	58	0.01	
BRITISH ISLANDS.	Roche's Point...	30.22	60	SE	2	f	30.14	12	61	59	+ 3	SE	3	c	3	62	57	0.01	
	Pembroke (St. Ann's Hd.)	30.23	62	ESE	2	b	30.18	09	55	54	- 3	E	4	bm	2	67	52	-	
	Scilly ...	30.18	61	E	4	c	30.12	11	61	58	+ 1	ESE	5	bc	4	65	58	-	
	Prawle Point ...	30.20	62	ENE	2	b	30.14	12	59	57	- 1	ENE	4	bm	3	64	55	-	
	Jersey (St. Aubin's)	30.18	66	ENE	4	b	30.11	13	63	60	0	ENE	4	bm	3	71	58	-	
	Hurst Castle ...	30.23	65	ENE	2	b	30.17	10	58	57	- 2	ENE	3	om	2	71	53	-	
	Dungeness ...	30.19	63	ENE	5	b	30.13	10	61	59	- 2	ENE	4	bc	3	68	60	-	
	London ...	30.34	62	ENE	2	b	30.18	12	58	56	0	NE	1	ogm	*	70	55	-	
	Oxford ...	30.27	58	E	2	b	30.21	11	55	54	- 2	NE	2	0	*	69	51	-	
	Cambridge ...	30.38	61	NE	1	b	30.20	13	58	56	+ 3	ENE	1	0	*	70	52	-	
GERMANY.	Yarmouth ...	30.29	61	NE	4	b	30.19	12	60	59	0	ENE	3	bc	4	64	58	-	
	Cuxhaven ...	30.26	57	ENE	4	c	30.25	04	57	55	- 1	ENE	4	c	*	65	57	-	
	Berlin ...	30.21	60	ENE	2	0	30.19	04	56	52	+ 2	E	4	0	*	66	52	-	
	Wiesbaden ...	*	*	*	*	*	30.08	09	58	53	- 1	NE	2	c	*	70	52	-	
	Munich ...	30.08	58	W	2	c	30.09	03	53	52	- 3	E	5	0	*	59	52	0.04	
FRANCE AND NETHERLANDS.	The Helder ...	30.26	61	NE	2	bc	30.19	11	58	55	- 3	ENE	2	bc	3	64	57	-	
	Brussels (9 a.m.)	*	*	*	*	*	30.13	10	53	52	- 10	ENE	2	0	*	69	50	-	
	Cape Gris Nez	?	62	ENE	4	b	?	?	58	57	+ 1	E	2	b	2	66	55	-	
	Paris ...	30.12	66	ENE	2	b	30.08	?	52	51	- 7	E	1	b	*	?	49	-	
	Brest ...	?	70	ENE	2	m	?	?	56	55	- 4	ENE	1	m	1	72	54	-	
FRANCE AND NETHERLANDS.	Lorient ...	30.15	66	WNW	1	bc	30.07	13	58	56	- 1	ENE	2	b	2	73	57	-	
	Rochefort ...	30.14	73	ENE	4	m	30.08	13	60	59	0	ENE	4	m	2	86	55	-	
	Belfort ...	30.09	57	E	2	bc	30.01	10	54	47	+ 1	SSE	1	b	*	64	45	-	
	Lyons ...	30.03	66	E	1	b	29.99	11	58	55	- 2	NE	1	b	*	72	53	-	
	Nice ...	29.96	67	WSW	2	c	29.96	04	64	57	- 1	E	4	bc	1	77	59	-	
PENINSULA.	Perpignan ...	29.98	71	20	0	b	29.99	09	63	59	- 5	W	2	b	*	85	56	-	
	Biarritz ...	30.02	70	ENE	3	b	29.96	16	64	63	+ 3	20	0	m	0	77	?	-	
	Corunna ...	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	-	
Lisbon ...	30.03	66	WNW	4	b	30.03	05	65	61	+ 1	WNW	3	b	?	73	63	-		

For Explanation of Columns, see bottom of p. 4.

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



# WEATHER CHARTS

for 8 a.m. on

Saturday, 7<sup>th</sup> September,

1889.

## BAROMETER, WIND AND 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:

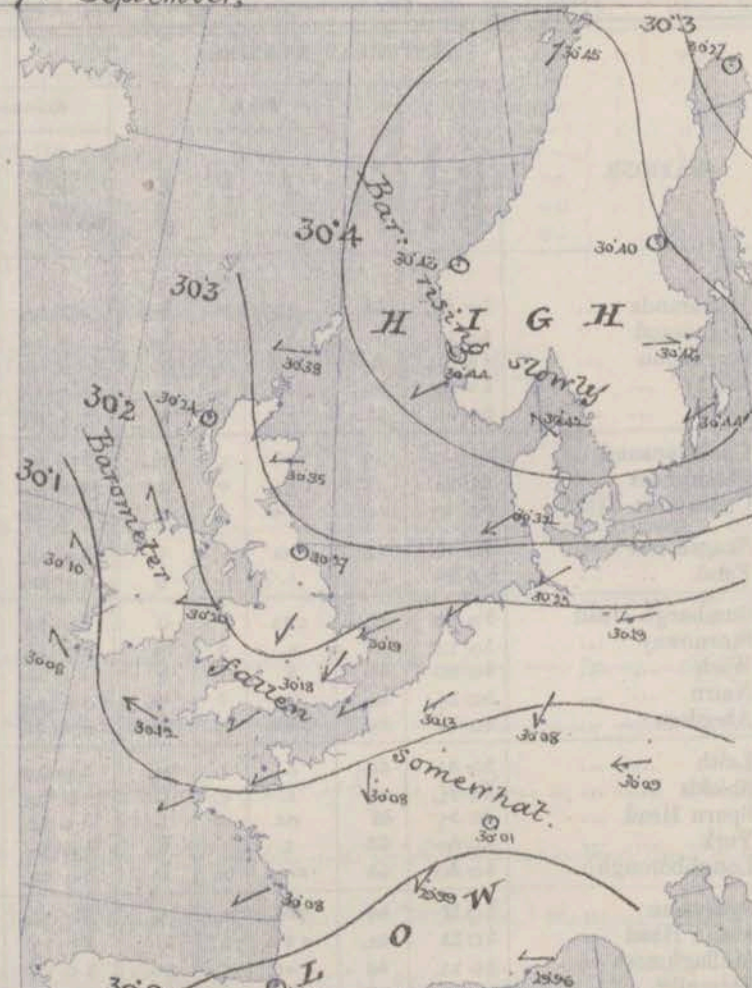
→ = Rough. → = High.

## MEAN HEIGHT OF THE BAROMETER

at 8.0 a.m. for the month of September.

During the 15 Years: 1871—1885.

STATIONS.	MEAN READINGS.
Sumburgh Head	29.766
Stornoway	29.780
Wick	29.793
Nairn	29.809
Aberdeen	29.819
Leith	29.846
Shields	29.869
York	29.905
Loughborough	29.924
Ardrossan	29.850
Donaghadee	29.869
Holyhead	29.894
Liverpool	29.899
Parsonstown	29.904
Valencia	29.917
Roche's Point	29.915
Pembroke	29.913
Scilly	29.943
Jersey	29.955
Hurst Castle	29.960
Dover	29.941
LONDON	29.945
Oxford	29.935
Cambridge	29.931
Yarmouth	29.916



## 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.

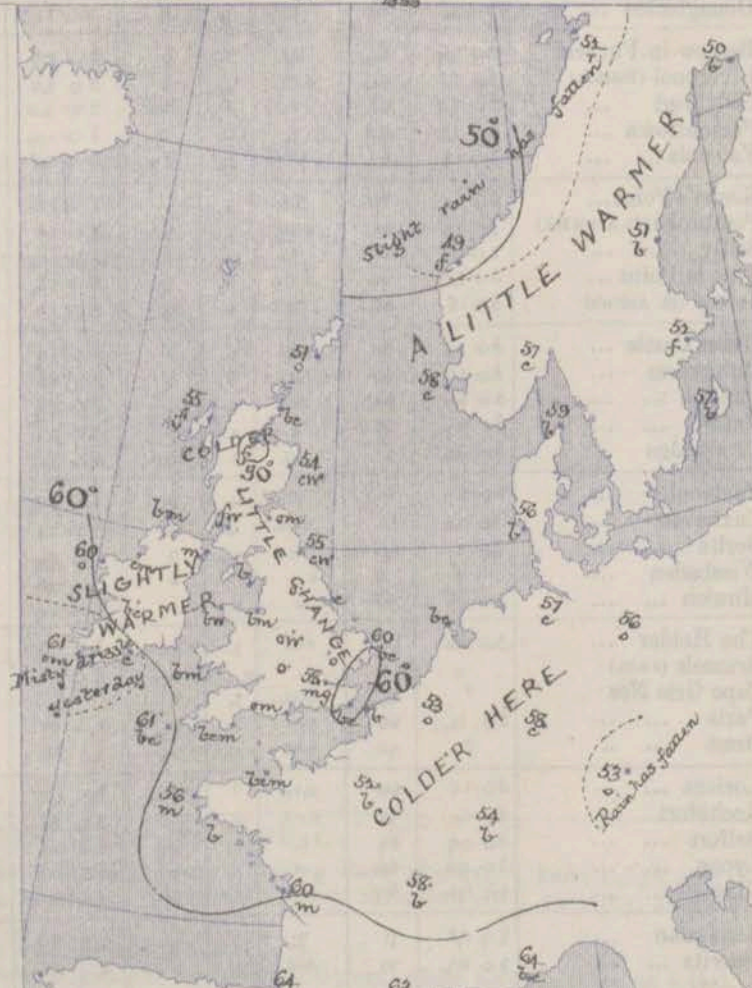
**RAINFALL**—A dotted line separates the districts in which rain has fallen from those where there has been none. Falls of 0.5 in. or more, are quoted in figures.

### 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	46.3	50.9	49.2	3.46
Stornoway.....	56.1	45.7	51.1	49.8	4.13
Wick.....	57.6	45.5	51.8	49.9	2.66
Nairn.....	59.0	46.8	51.2	48.8	2.73
Aberdeen.....	59.2	46.7	52.1	49.8	3.22
Leith.....	62.2	47.6	53.2	50.8	2.47
Shields.....	59.9	49.3	53.1	51.1	2.58
York.....	63.3	47.3	52.8	51.0	2.98
Loughborough.....	65.0	47.9	54.3	52.4	3.06
Ardrossan.....	59.7	49.6	53.5	51.3	3.87
Donaghadee.....	59.6	48.8	53.3	52.1	3.22
Holyhead.....	60.6	52.8	55.7	53.5	3.35
Liverpool.....	61.2	50.9	54.5	51.9	3.56
Parsonstown.....	61.6	47.5	53.1	51.1	3.49
Valencia.....	61.7	51.5	56.3	53.9	4.87
Roche's Point.....	61.9	51.0	55.4	53.2	4.39
Pembroke.....	60.2	53.1	56.2	53.8	3.89
Scilly.....	61.8	54.8	58.4	56.2	3.69
Jersey.....	65.2	54.9	59.8	57.1	3.51
Hurst Castle.....	64.2	52.2	57.2	55.8	3.35
Dover.....	62.9	53.0	57.9	55.3	2.80
LONDON.....	66.3	49.4	55.9	53.0	2.59
Oxford.....	63.8	49.1	54.2	52.3	2.91
Cambridge.....	65.5	48.1	54.4	52.9	2.48
Yarmouth.....	62.0	51.1	56.2	54.4	3.17

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





# GENERAL SITUATION AT 8 A.M.

PRESSURE	Highest, 30.4 in: and more, in a large anticyclone, the central area of which lies over Scandinavia. Lowest, 30.08 in: at Valencia, 30.03 in: at Lisbon, 29.96 in: at Biarritz and at Nice. Gradients slight; becoming more and more favourable for E. winds in the south. Barometer rising slowly in the far north, falling a little elsewhere.
TEMPERATURE	Highest, 65° at Lister, 64° at Nice and Biarritz, 63° at Hockport and Jersey, 61° at Keleney, Scilly, and (Dumfries). Lowest, 48° at Christiansund and Næm, 50° at Haparanda, 51° at Helsingfors, 53° at Andromon, and 54° at Aberdeen. Daily maxima yesterday were as high as 70° to 73° over the southern and inland countries of England.
WIND	Light to moderate from NE. over North Germany, the Netherlands, East of England, Channel, and Bay of Biscay. Light SE <sup>3</sup> in Ireland. E <sup>3</sup> over the Irish Sea — Calm in Scotland. SW <sup>4</sup> at Boro'. The E. wind is inclined to freshen a little in the south.
WEATHER	Fair as a whole — clear in some places, cloudy or dull in others, foggy in several parts of Scotland and at Christiansund. Raining at Boro'. Sky has been alternately clear and cloudy in the south during the past 24 hours.
SEA	Moderate in the Channel and at Yarmouth, slight or smooth elsewhere.

## PROBABLE CHANGES IN SYSTEM NOW PREVALENT

The indications are still favourable for a continuation of fair weather in nearly all places.

## FORECASTS

For the 24 hours ending at NOON on 8<sup>TH</sup> SEPT<sup>R</sup> 1889.

DISTRICTS.	FORECASTS.	DISTRICTS.	FORECASTS.
0 { SCOTLAND NORTH	{ SE <sup>2</sup> and E <sup>2</sup> breezes; fair generally.	6 { SCOTLAND WEST	{ SE <sup>2</sup> winds, freshening; fair as a whole.
1 { SCOTLAND EAST		7 { ENGLAND N.W.	
2 { ENGLAND N.E.		8 { ENGLAND S.W.	E <sup>2</sup> winds, fresh; fair, dry.
3 { ENGLAND EAST	{ NE <sup>2</sup> breezes, freshening; alternately bright and dull.	9 { IRELAND NORTH	{ SE <sup>2</sup> winds, freshening; fair to showery.
4 { MIDLAND COUNTIES		0 { 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:		Ther:		Wind		Wea:	Sea		Bar:		Ther:		Wind		Wea:	Sea.
	D	W	D	F	D	F				D	W	D	F	D	F		
Skudesnaes ...	30 39	68	61	20	0	6	2			Holyhead ...	30 27	68	64	1W	1	cm	1
Sumburgh Head ...	30 35	54	53	ESE	1	0	2			Valencia ...	30 22	63	58	SE	4	cm	4
Stornoway ...	30 25	63	62	S	3	6c	3			Scilly ...	30 20	64	62	ESE	4	cf	4
Aberdeen ...	30 36	58	55	S	2	bm	3			Jersey ...	30 21	70	64	ESE	3	bc	3
Shields ...	30 35	59	58	E	2	b	2			Dungeness ...	30 23	66	60	ESE	5	b	3
Ardrossan ...	30 27	67	63	NNE	2	bc	1			London ...	30 27	67	56	E	4	b	4
Malin Head ...	30 24	65	63	S	3	c	1			Yarmouth ...	30 30	64	61	ESE	3	b	3
Mullaghmore ...	30 24	64	60	SE	3	c	2			Rochefort ...	30 17	84	73	NE	4	b	2
Belmullet ...	30 22	64	61	SEW	1	0	2										

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

*Continental Information not yet available.*

### 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 8<sup>th</sup> SEPT<sup>r</sup> 1889.  
 Issued by the Meteorological Office, 63, Victoria Street, London. R. H. SCOTT, Secretary.

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			Direc.	Force. (0 to 12.)				Dry.	Wet.	Difference from 8 a.m. yesterday.	Direc.	Force. (0 to 12.)		Max.	Min.				
SCANDINAVIA.																			
Haparanda ...	30.27	52	Z	0	b	30.23	-.04	56	53	+ 6	Z	0	b	*	68	39	—		
Hernösand ...	30.36	52	Z	0	b	30.32	-.08	51	50	0	Z	0	b	*	73	43	—		
Stockholm ...	30.37	57	Z	0	b	30.30	-.16	55	53	+ 3	Z	0	b	*	66	?	—		
Wisby ...	30.27	52	E	2	b	30.30	-.14	55	54	- 2	S	2	b	*	64	48	—		
Bodö ...	30.27	52	Z	0	o	30.33	-.12	51	51	- 1	S	2	o	1	54	50	—		
Christiansund	30.41	50	NW	2	f	30.33	-.10	48	47	- 1	NW	2	f	1	52	46	—		
Skudesnaes ...	30.41	58	Z	0	b	30.34	-.10	57	58	- 1	E	2	b	2	70	52	—		
Christiania Fjord (Færdø)	30.39	60	WSW	2	b	30.23	-.12	57	55	0	NNW	2	b	1	63	55	—		
Skagen (The Scaw)	30.37	59	NE	1	b	30.31	-.11	59	57	0	E	1	b	0	63	55	—		
Fanø ...	30.29	54	ENE	5	b	30.22	-.10	57	55	+ 1	NE	4	b	*	64	52	—		
Sumburgh Head	30.33	54	E	2	o	30.26	-.12	55	54	+ 4	SE	2	c	3	50	49	—		
Stornoway ...	30.10	62	E	4	b	30.06	-.18	58	56	+ 3	S	5	c	4	65	52	—		
Wick ...	30.25	55	S	4	b	30.20	-.14	56	54	0	SE	3	b	2	60	52	—		
Nairn ...	30.17	62	ESE	2	b	30.14	-.15	58	53	+ 9	ESE	2	b	2	69	47	—		
Aberdeen ...	30.27	56	SE	2	c	30.20	-.15	57	56	+ 3	SE	2	om	3	59	53	—		
Leith ...	30.20	57	NE	2	b	30.15	-.15	59	55	+ 5	E	1	bm	*	61	48	—		
Shields ...	30.18	58	E	3	c	30.13	-.14	59	58	+ 4	ESE	2	c	2	61	53	—		
Spurn Head ...	30.17	58	ENE	4	b	30.13	-.10	61	59	+ 2	NE	4	bm	2	62	56	—		
York ...	30.19	60	E	1	b	30.14	-.13	55	55	- 1	N	1	o	*	65	49	0.03		
Loughborough	30.14	60	ENE	1	b	30.11	-.13	55	55	- 1	WNW	1	ogm	*	69	50	0.01		
Ardrossan ...	30.14	60	ENE	4	b	30.10	-.16	57	53	+ 4	ENE	6	c	5	65	49	—		
Malin Head ...	30.07	59	ESE	2	bm	29.91	-.26	56	54	0	SSE	5	ogm	2	63	55	—		
Mullaghmore ...	30.03	62	ESE	4	cm	29.88	-.27	58	56	- 2	SE	6	org	4	67	55	0.01		
Belmullet ...	30.00	63	SSE	4	o	29.80	-.30	57	57	- 3	SSE	5	or	*	67	54	0.24		
Donaghadee ...	30.12	58	ESE	2	b	30.06	-.18	57	55	- 1	ESE	5	c	3	61	56	—		
Barrow-in-Furness	30.11	63	E	3	b	30.08	-.15	58	56	+ 3	NE	3	b	*	66	52	—		
Liverpool (Bidston)	30.13	57	ESE	2	b	30.11	-.14	57	54	+ 2	SE	2	b	2	66	51	—		
Holyhead ...	30.11	58	Z	0	bm	30.06	-.14	58	55	- 1	ESE	1	cm	1	67	53	—		
Parsonstown ...	30.05	61	Z	0	b	29.92	-.22	58	56	- 1	SE	2	o	*	67	53	0.03		
Valencia ...	30.00	61	SE	6	om	29.86	-.20	60	58	- 1	WSW	2	o	2	63	58	0.32		
Roche's Point...	30.06	59	SE	4	c	29.94	-.20	59	59	- 2	S	5	r	4	63	58	0.15		
Pembroke (St. Ann's Hd.)	30.09	59	ESE	3	b	30.00	-.18	59	57	+ 4	SE	5	og	3	61	55	—		
Scilly ...	30.05	60	ESE	5	o	30.02	-.10	60	60	- 1	SSE	2	om	3	64	58	—		
Prawle Point...	30.12	59	ESE	3	bm	30.09	-.05	60	58	+ 1	E	3	bm	2	62	56	—		
Jersey (St. Aubin's)	30.05	65	ENE	3	bm	30.09	-.02	64	61	+ 1	E	3	cm	3	68	53	—		
Hurst Castle ...	30.08	63	S	2	m	30.11	-.06	53	53	- 5	NE	1	f	1	71	50	—		
Dunegess ...	30.06	61	ENE	4	b	30.05	-.08	55	50	- 6	NNE	2	f	1	68	48	—		
London ...	30.11	59	SE	1	omgr	30.12	-.06	54	52	- 4	NE	1	m	*	68	45	0.01		
Oxford ...	30.14	57	NE	1	o	30.12	-.09	57	50	- 4	NE	1	om	*	67	47	—		
Cambridge ...	30.13	59	Z	0	o	30.11	-.09	54	54	- 4	Z	0	o	*	65	48	0.04		
Yarmouth ...	30.14	60	E	4	c	30.07	-.12	60	59	0	ENE	1	b	4	62	55	0.01		
Cuxhaven ...	30.25	58	ENE	4	o	30.17	-.08	57	56	0	E	5	o	*	64	57	0.04		
Berlin ...	30.18	59	Z	0	o	30.17	-.02	55	53	- 1	ESE	2	r	*	64	55	0.04		
Wiesbaden ...	*	*	*	*	*	30.09	+ .01	54	53	- 4	Z	0	r	*	68	50	0.08		
Munich ...	30.13	55	Z	0	b	30.16	+ .07	52	50	- 1	E	3	m	*	61	46	0.04		
GERMANY.																			
The Helder ...	30.13	61	E	1	c	30.08	-.11	57	55	- 1	E	1	c	1	63	57	—		
Brussels (0 a.m.)	*	*	*	*	*	30.10	-.03	54	52	+ 1	W	1	c	*	65	58	—		
Cape Gris Nez	?	59	ENE	3	*	?	?	60	55	+ 2	E	1	b	1	64	55	—		
Paris ...	30.03	63	NNE	2	c	30.07	-.01	57	56	+ 5	Z	0	o	*	72	52	—		
Brest ...	30.01	68	ENE	1	m	?	?	59	58	+ 3	SE	1	b	1	70	54	—		
Lorient ...	30.03	67	Z	0	b	30.06	-.01	58	57	0	Z	0	b	2	75	67	—		
Rochefort ...	30.02	74	ENE	1	b	30.11	+ .03	63	58	+ 3	NE	1	b	2	79	54	—		
Belfort ...	30.06	60	E	1	b	30.12	+ .11	52	47	- 2	E	1	b	*	64	47	—		
Lyons ...	29.99	66	E	1	b	30.09	+ .10	56	?	- 2	SE	1	m	*	73	53	—		
Nice ...	30.00	67	E	2	b	30.08	+ .12	65	59	+ 1	E	3	b	1	77	57	—		
Perpignan ...	29.97	68	SW	1	c	30.08	+ .09	65	64	+ 2	Z	0	o	*	79	61	—		
Biarritz ...	29.97	69	W	3	o	30.06	+ .10	67	64	+ 3	WSW	4	o	2	75	64	—		
Corunna ...	*	*	*	*	*	30.13	+ .07	66	65	+ 4	N	1	f	4	73	59	—		
Lisbon ...	30.01	66	NNW	5	b	30.03	00	65	61	0	N	4	b	4	75	63	—		
FRANCE AND NETHERLANDS.																			
PENIN. SULA.																			

For Explanation of Columns, see bottom of p 4.

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



# WEATHER CHARTS

for 8 a.m. on

Sunday, 8<sup>th</sup> September,

1889.

## BAROMETER, WIND AND 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:

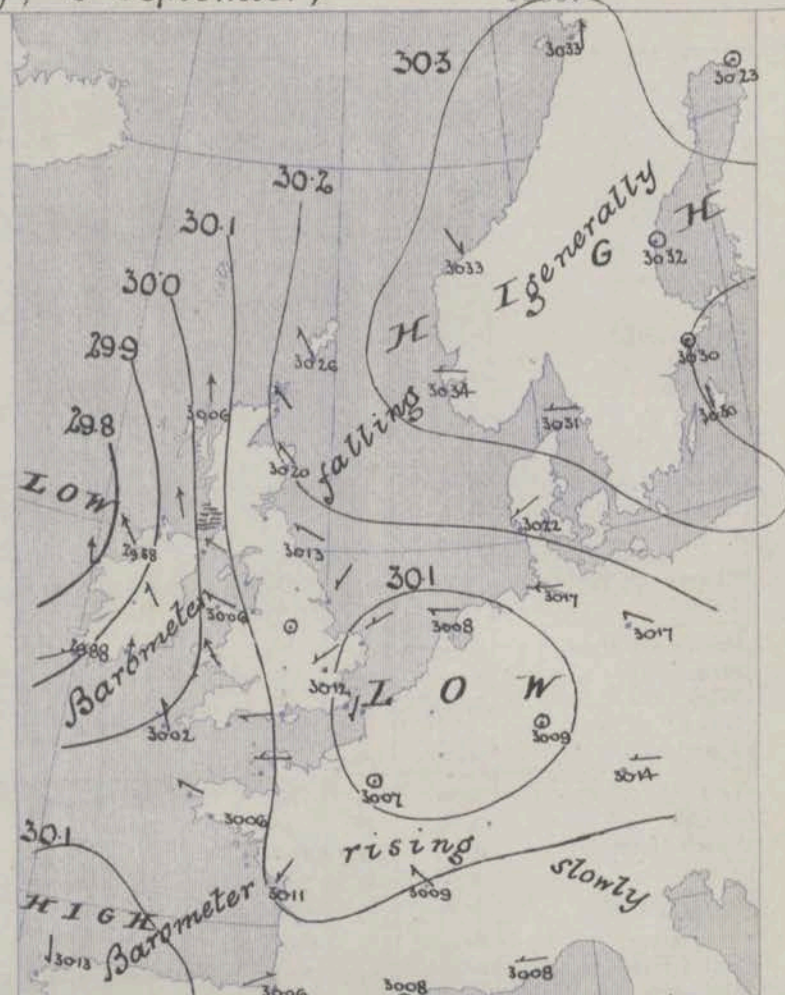
— = Rough. — = High.

## MEAN HEIGHT OF THE BAROMETER

at 8.0 a.m. for the month of September.

During the 15 Years: 1871—1885.

STATIONS.	MEAN READINGS.
Sumburgh Head .....	29.766
Stornoway .....	29.780
Wick .....	29.793
Nairn .....	29.809
Aberdeen .....	29.819
Leith .....	29.846
Shields .....	29.869
York .....	29.905
Loughborough .....	29.924
Ardrossan .....	29.850
Donaghadee .....	29.869
Holyhead .....	29.894
Liverpool .....	29.899
Parsonstown .....	29.901
Valencia .....	29.917
Roche's Point .....	29.915
Pembroke .....	29.913
Scilly .....	29.943
Jersey .....	29.955
Hurst Castle .....	29.969
Dover .....	29.941
LONDON .....	29.945
Oxford .....	29.935
Cambridge .....	29.931
Yarmouth .....	29.916



## 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.

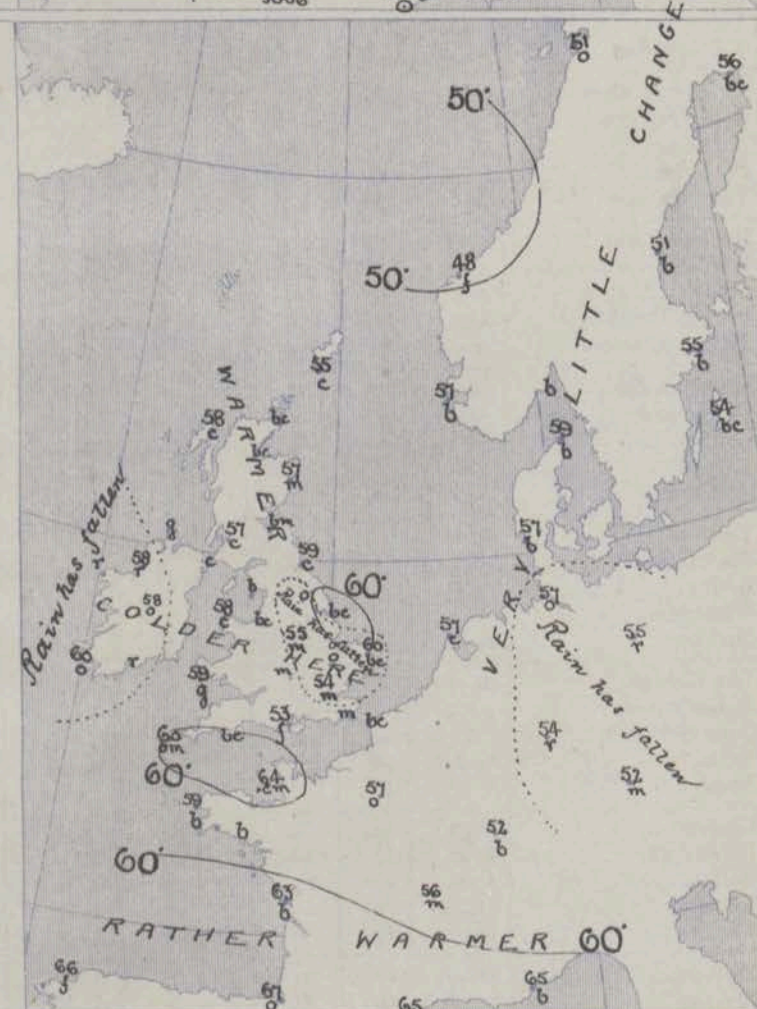
**RAINFALL**—A dotted line separates the districts in which rain has fallen from those where there has been none. Falls of 0.5 in. or more, are quoted in figures.

### 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	46.3	50.9	49.2	3.16
Stornoway .....	56.1	45.7	51.1	49.8	4.13
Wick .....	57.6	45.5	51.8	49.9	2.66
Nairn .....	59.0	46.8	51.2	48.8	2.73
Aberdeen .....	59.2	46.7	52.1	49.8	3.22
Leith .....	62.2	47.6	53.2	50.8	2.47
Shields .....	59.9	49.3	53.1	51.1	2.58
York .....	63.3	47.3	52.8	51.0	2.98
Loughborough .....	65.0	47.9	54.3	52.4	3.06
Ardrossan .....	59.7	49.0	53.5	51.3	3.87
Donaghadee.....	59.6	48.8	53.3	52.1	3.22
Holyhead.....	60.6	52.8	55.7	53.5	3.35
Liverpool .....	61.2	50.9	54.5	51.9	3.56
Parsonstown .....	61.6	47.5	53.1	51.1	3.49
Valencia .....	61.7	51.5	56.3	53.9	4.87
Roche's Point.....	61.9	51.0	55.4	53.2	4.39
Pembroke.....	60.2	53.1	56.2	53.8	3.89
Scilly .....	61.8	54.8	58.4	56.2	3.69
Jersey .....	65.2	54.9	59.8	57.1	3.51
Hurst Castle .....	64.2	52.2	57.2	55.8	3.35
Dover .....	62.9	53.0	57.9	55.3	2.86
LONDON .....	66.3	49.4	55.9	53.6	2.59
Oxford .....	63.8	49.1	54.2	52.3	2.91
Cambridge .....	65.5	48.1	54.4	52.9	2.48
Yarmouth .....	62.0	51.1	56.2	54.4	3.17

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





# GENERAL SITUATION AT 8 A.M.

## PRESSURE

Highest, 30.1 in: and more in a large anticyclone lying over the whole of northern, northwestern, and central Europe; and also in a small, secondary system over the Bay of Biscay and north of Spain. (but apparently deepening)  
 Lowest, 29.8 in: and less, off the northwest of Ireland, 30.0 in: and less, in a very shallow system over the Netherlands, Belgium and northeast of France.  
 Gradient somewhat steep in the west of our islands, slight elsewhere.  
 Barometer falling except in the southwest and south, most in the west and northwest.

## TEMPERATURE

Highest, 67° at Biarritz, 66° at Courmayeur, 65° at Lisbon, Perpignan, and Nice, 64° at Jersey, 60° at Sicily, and Valencia.  
 Lowest, 46° at Christiansund, 51° at Rode, Harwich, and Caudebec, 52° at Belfast, 54° at Newcastle, and Brussels, 55° at Edinburgh, 56° at Loughborough, and Berlin, and 57° at Paris.  
 It has fallen over most parts of Ireland and England, changed irregularly elsewhere.

## WIND

SE<sup>4</sup> to S<sup>4</sup>, fresh over our western districts as a whole — SW<sup>4</sup>, light at Valencia  
 NE<sup>2</sup> over Denmark, the Netherlands, and the east and south of England. Very variable over Scandinavia.

## WEATHER

Fine and bright in France and on the eastern shore of the North Sea, as well as at a few stations in our islands; cloudy or foggy elsewhere, with rain at some western stations. Rain has fallen in the west and northwest, most at Valencia, and a little over Germany.

## SEA

Rather rough at Androsan, moderate at Rock Point, slight or smooth elsewhere.

## PROBABLE CHANGES IN SYSTEM NOW PREVALENT

# FORECASTS

For the 24 hours ending at NOON on 9<sup>TH</sup> SEPT<sup>R</sup> 1889.

## DISTRICTS.

## FORECASTS.

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

NONE ISSUED

## DISTRICTS.

## FORECASTS

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

NONE ISSUED

## WARNINGS

NONE ISSUED

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



# YESTERDAY'S 2 P.M. REPORTS.

Bar:								Ther:		Wind		Wea:		Sea		Bar.								Ther:		Wind		Wea:		Sea.			
								D	W	D	F													D	W	D	F						
Skudesnaes ...	30.42	70	57	ESE	1	c	2	Holyhead ...								30.14	65	58	SH	2	b	2											
Sumburgh Head ...	30.36	55	52	ESE	2	o	2	Valencia ...								30.04	63	60	SE	6	om	5											
Stornoway ...	30.17	63	62	SE	2	bm	3	Scilly ...								30.07	63	61	ESE	5	bcm	4											
Aberdeen ...	30.30	58	56	E	2	o	3	Jersey ...								30.07	68	60	NE	4	bm	3											
Shields ...	30.22	59	58	NE	2	o	2	Dungeness ...								30.09	66	58	ENE	5	bc	3											
Ardrossan ...	30.17	65	59	ENE	2	bm	1	London ...								30.12	64	58	NE	1	o	2											
Malin Head ...	30.11	60	56	SE	4	b	2	Yarmouth ...								30.16	62	59	ENE	3	bcpv	4											
Mullaghmore ...	30.08	66	54	SE	5	bcm	3	Rochefort ...								30.05	75	69	NW	2	b	2											
Belmullet ...	30.05	67	61	SSW	4	c	*																										

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

The reports for yesterday morning showed that pressure then varied from 30.4 ins: and more in an anticyclone which lay over Scandinavia, and from 30.3 ins: and more in a narrow band which extended thence in a southeasterly direction across the Baltic Provinces and Western Russia to the Black Sea, to 30.0 ins: and less, over the Mediterranean and South of France, to 30.1 ins: and less, over the Atlantic off the western coast of the British Isles, and to 30.2 ins: and less, over the Central and northeastern parts of Russia. The winds were consequently E<sup>ly</sup> as a whole over southern, Central, and western Europe, and over the Baltic, SE<sup>ly</sup> in Ireland, S<sup>ly</sup> at Ulick, and SW at Koda, while at Christiansund and in the north of Sweden it was calm. At Moscow, St. Petersburg and Archangel, however, it was N<sup>ly</sup> or NW<sup>ly</sup> and very light. The weather was fine and bright over Southwestern Europe and France, as well as at a few stations in Sweden and the south of Russia, cloudy, overcast or foggy elsewhere, with rain in several parts of Russia, Eastern Germany and Hungary. Temperature continued above 70° on the western, southern, and southeastern shores of the Mediterranean — the highest morning values being 73° at Barcelona, 77° at Brindisi, 76° at Malta, 75° at Cagliari and Anafallu, 73° at Nicosia, Aumale and Palermo, 71° at Algiers, and 70° at Leghorn. It was below 50° over northern, Central and southern Russia — the lowest values being 44° at Archangel, 45° at Moscow, 48° at Kiev, 49° at Christiansund, Kharkov, and Nicolaieff, 50° at Memel and Kaspia, 51° at Helsinki, Warsaw, Lemberg.

(During the day pressure fell very generally and the anticyclone over Scandinavia decreased in intensity.

### 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, 9<sup>th</sup> September, 1889.*  
*Issued by the Meteorological Office, 63, Victoria Street, London. R. H. SCOTT, Secretary.*

STATIONS.	YESTERDAY EVENING.					8 A.M. TO DAY.										PAST 24 HOURS.		
	Barometer at 32° F. and Sea Level.	Temp. in Shade.	WIND.		Weather.	BAROMETER.		SHADE TEMP.			WIND.		Weather.	Sea. (0 to 2.)	SHADE TEMP.			
			Dirce.	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.	Dirce.	Force. (0 to 12.)			Max.	Min.	Amount of Rainfall.	
SCANDINAVIA.																		
Haparanda ...	30.04	53	SW	2	b	29.81	-.42	55	54	- 1	SW	0	b	*	68	46	-	
Hernösand ...	30.15	51	SW	0	b	30.02	-.30	50	49	- 1	SW	0	b	*	66	45	-	
Stockholm ...	30.21	55	SSE	2	b	30.13	-.17	57	54	+ 2	SSW	2	b	*	73	50	-	
Wisby ...	30.22	54	SW	2	b	30.17	-.13	58	55	+ 3	S	4	bc	*	63	48	-	
Bodö ...	30.12	53	SW	4	r	?	?	41	39	- 10	?	?	r	3	?	41	0.16	
Christiansund	30.21	49	WSW	3	f	30.09	-.24	50	49	+ 2	WSW	2	f	2	80	48	0.04	
Skudesnaes ...	30.21	55	WSW	1	b	30.10	-.24	58	54	+ 1	E	2	b	2	70	48	-	
Christiania Fjord (Fierder)	30.19	59	WSW	2	b	30.10	-.23	59	56	+ 2	SSW	3	b	2	61	57	-	
Skagen (The Scaw)	30.18	54	SW	0	b	30.13	-.18	57	56	- 2	W	1	b	0	64	48	-	
Fanö ...	30.14	56	E	4	C	30.11	-.11	57	56	0	SE	3	C	*	64	54	-	
Sumburgh Head	30.13	55	SE	2	0	29.91	-.35	55	55	0	SSE	2	0	3	58	53	-	
Stornoway ...	29.90	59	S	4	0	29.74	-.32	56	55	- 2	SW	5	bc	5	63	52	0.62	
Wick ...	30.05	56	SE	2	b	29.84	-.36	57	55	+ 1	S	4	0	3	61	54	-	
Nairn ...	29.95	59	SSE	3	C	29.81	-.33	62	57	+ 4	S	2	C	3	68	56	-	
Aberdeen ...	30.09	56	SSE	2	0	29.93	-.27	57	55	0	S	4	ogmp	4	61	56	0.01	
Leith ...	30.02	60	SE	1	C	29.93	-.22	65	59	+ 6	SW	4	C	*	66	54	-	
Shields ...	30.06	58	E	2	C	29.98	-.15	56	55	- 3	SW	3	C	2	62	54	-	
Spurn Head ...	30.08	59	NE	1	b	30.07	-.11	60	57	- 1	SW	4	C	3	64	55	-	
York ...	30.08	62	E	1	bc	30.06	-.08	60	58	+ 5	S	1	b	*	66	53	0.01	
Loughborough	30.08	62	WSW	1	bc	30.09	-.02	60	58	+ 5	SW	1	cmw	*	60	53	-	
Ardrossan ...	30.00	60	S	6	b	29.92	-.18	59	50	+ 2	S	6	C	6	64	56	0.05	
Malin Head ...	29.84	58	S	3	C	29.88	-.03	57	54	+ 1	SW	3	b	1	59	55	0.04	
Mullaghmore ...	29.85	63	S	4	bc	29.93	+ .05	59	55	+ 1	SSW	4	b	2	66	55	0.08	
Belmullet ...	29.83	61	SW	5	C	29.91	+ .11	58	55	+ 1	SW	3	b	*	63	55	0.26	
Donaghadee ...	29.97	57	SSW	4	r	29.97	-.09	58	57	+ 1	SW	3	b	2	59	56	0.02	
Barrow-in-Furness	30.01	61	SE	3	bc	29.99	-.09	60	59	+ 2	S	4	C	*	64	58	-	
Liverpool (Bidston)	30.05	61	SSE	2	0	30.05	-.06	62	59	+ 5	S	2	C	2	64	57	-	
Holyhead ...	30.02	60	S	3	og	30.03	-.03	61	59	+ 3	SW	4	bc	4	64	57	0.02	
Parsonstown ...	29.91	65	SW	0	C	30.00	+ .08	58	56	0	SE	1	bc	*	69	54	0.02	
Valencia ...	29.90	61	S	4	bcm	30.01	+ .13	62	60	+ 2	SSW	2	bcm	2	64	59	-	
Roche's Point...	29.96	61	SW	4	C	30.03	+ .09	61	58	+ 2	SW	3	bc	4	63	57	0.01	
Pembroke (St. Ann's Hd.)	30.04	59	S	5	r	30.08	+ .08	60	60	+ 1	SSW	3	cf	4	61	59	0.04	
Scilly ...	30.04	63	SSW	4	0	30.14	+ .12	62	62	+ 2	SW	3	cm	4	67	59	0.04	
Prawle Point ...	30.10	59	SSE	2	0	30.15	+ .06	58	58	- 2	S	2	df	2	62	58	-	
Jersey (St. Aubin's)	30.11	66	SSE	2	bc	30.19	+ .10	60	58	- 4	WSW	2	cmw	2	70	53	-	
Hurst Castle ...	30.12	61	WSW	2	C	30.17	+ .06	61	61	+ 8	SW	3	cm	2	66	52	-	
Dungeness ...	30.07	64	WSW	2	C	30.15	+ .10	61	58	+ 6	WSW	1	b	1	68	51	-	
London ...	30.08	62	W	1	C	30.15	+ .03	61	58	+ 7	SW	2	bcw	*	64	49	-	
Oxford ...	30.12	58	SW	0	0	30.14	+ .02	59	57	+ 8	SSW	2	0	*	65	50	-	
Cambridge ...	30.11	60	SW	0	b	30.10	-.01	58	57	+ 4	S	1	0	*	68	50	-	
Yarmouth ...	30.07	62	SE	1	b	30.12	+ .05	58	56	- 2	SW	2	bcm	2	64	52	-	
Cuxhaven ...	30.13	59	SSE	3	b	30.11	-.04	59	58	+ 2	E	1	m	*	64	?	-	
Berlin ...	30.10	64	E	2	b	30.10	-.07	58	55	+ 3	SSE	3	C	*	70	55	-	
Wiesbaden ...	*	*	*	*	*	30.16	+ .07	57	54	+ 3	WSW	2	bc	*	64	50	-	
Munich ...	30.14	57	SW	0	C	30.19	+ .03	55	54	+ 3	SW	4	0	*	64	?	0.24	
FRANCE AND NETHERLANDS.																		
The Helder ...	30.08	61	SW	0	b	30.13	+ .05	60	58	+ 3	WSW	1	b	1	64	57	-	
Brussels (9 a.m.)	*	*	*	*	*	?	?	58	57	- 2	S	1	b	0	70	55	-	
Cape Gris Nez	?	59	E	2	b	?	?	51	51	- 6	SW	0	m	*	73	47	-	
Paris ...	30.10	64	NE	1	b	30.21	+ .14	51	51	- 6	SW	0	m	*	73	47	-	
Brest ...	?	62	SW	0	m	?	?	62	59	+ 3	SSW	2	0	2	70	57	-	
Lorient ...	30.11	66	W	1	b	30.21	+ .15	59	58	+ 1	SSE	1	b	2	72	57	-	
Rochefort ...	30.15	70	WSW	3	bc	30.22	+ .11	62	60	- 1	ENE	2	b	2	79	55	-	
Belfort ...	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	
Lyons ...	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	
Nice ...	30.03	67	SW	1	C	30.05	-.03	62	59	- 3	E	4	bc	1	79	59	-	
Perpignan ...	30.09	70	SW	0	bc	30.14	+ .06	64	61	- 1	W	2	b	*	79	59	-	
Biarritz ...	30.11	71	WSW	2	b	30.16	+ .10	65	64	- 2	SSE	3	m	2	77	64	-	
PENINSULA.																		
Corunna ...	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	
Lisbon ...	30.02	69	WSW	4	b	30.04	+ .01	62	58	- 3	N	3	b	5	81	59	-	

For Explanation of Columns, see bottom of p 4.

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



# WEATHER CHARTS

for 8 a.m. on Monday, 9<sup>th</sup> September.

1889.

## BAROMETER, WIND AND 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:

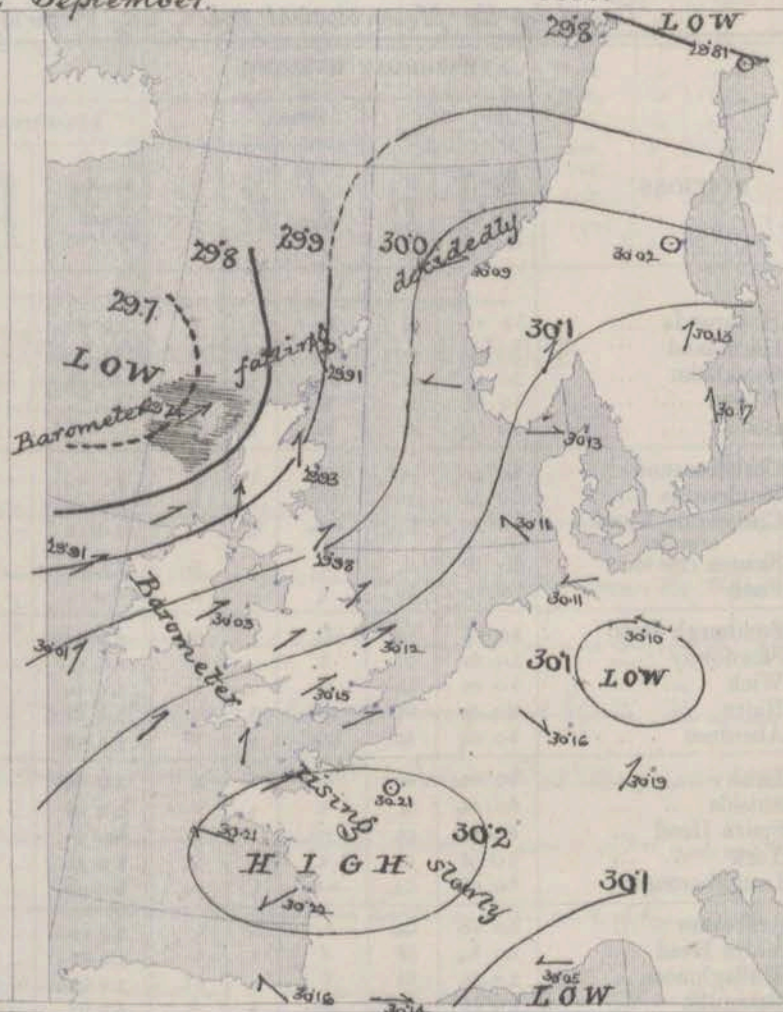
— = Rough. — = High.

## MEAN HEIGHT OF THE BAROMETER

at 8.0 a.m. for the month of September.

During the 15 Years: 1871—1885.

STATIONS.	MEAN READINGS.
Sumburgh Head	29.766
Stornoway	29.780
Wick	29.793
Nairn	29.809
Aberdeen	29.819
Leith	29.846
Shields	29.869
York	29.905
Loughborough	29.924
Ardrossan	29.850
Donaghadee	29.869
Holyhead	29.894
Liverpool	29.899
Parsonstown	29.904
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Roche's Point	29.915
Pembroke	29.913
Silly	29.943
Jersey	29.955
Hurst Castle	29.980
Dover	29.941
LONDON	29.945
Oxford	29.935
Cambridge	29.931
Yarmouth	29.916



## 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.

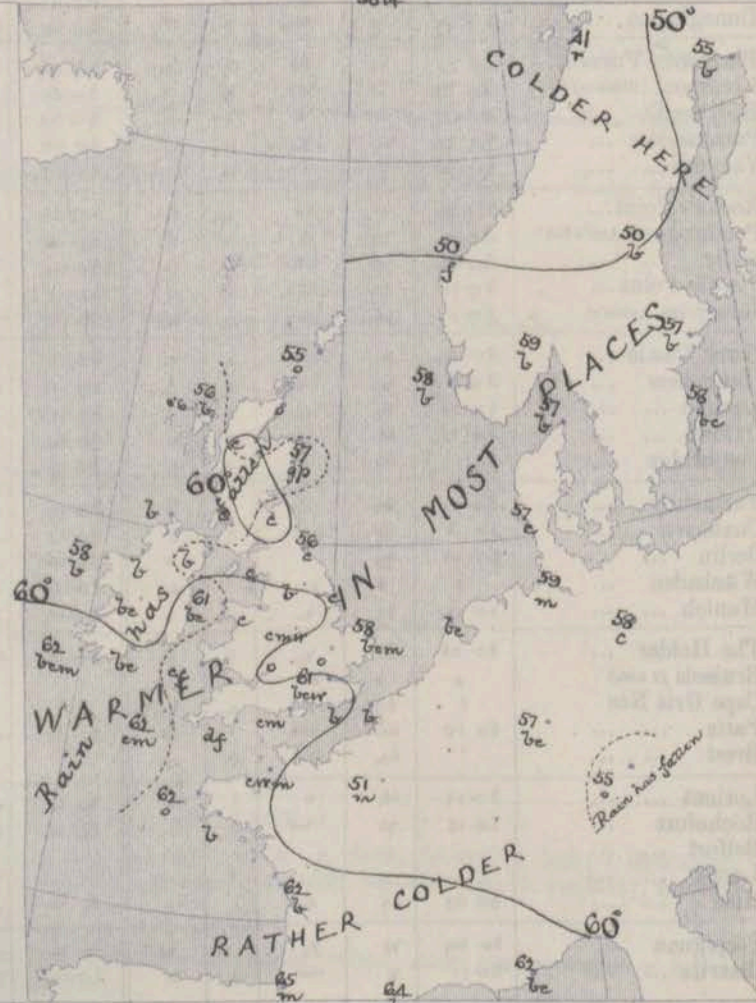
**RAINFALL**—A dotted line separates the districts in which rain has fallen from those where there has been none. Falls of 0.5 in. or more, are quoted in figures.

## 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 a.m.	
Sumburgh Head	55.2	46.3	50.9	40.2	3.46
Stornoway	56.1	45.7	51.1	40.8	4.13
Wick	57.6	45.5	51.8	40.9	2.06
Nairn	59.0	46.8	51.2	48.8	2.73
Aberdeen	59.2	46.7	52.1	49.8	3.22
Leith	62.2	47.6	53.2	50.8	2.47
Shields	59.9	49.3	53.1	51.1	2.58
York	63.3	47.3	52.8	51.0	2.98
Loughborough	65.0	47.9	54.3	52.4	3.06
Ardrossan	59.7	49.6	53.5	51.3	3.87
Donaghadee	59.6	48.8	53.3	52.1	3.22
Holyhead	60.6	52.8	55.7	53.5	3.35
Liverpool	61.2	50.9	54.5	51.0	3.56
Parsonstown	61.6	47.5	53.1	51.1	3.49
Valencia	61.7	51.5	56.3	53.9	4.87
Roche's Point	61.0	51.0	55.4	53.2	4.39
Pembroke	60.2	53.1	56.2	53.8	3.89
Silly	61.8	54.8	58.4	56.2	3.69
Jersey	65.2	54.9	59.8	57.1	3.51
Hurst Castle	64.2	52.2	57.2	55.8	3.35
Dover	62.9	53.0	57.9	55.3	2.86
LONDON	65.3	49.4	55.9	53.6	2.59
Oxford	63.8	49.1	54.2	52.3	2.91
Cambridge	65.5	48.1	54.4	52.9	2.48
Yarmouth	62.0	51.1	56.2	54.4	3.17

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





# GENERAL SITUATION AT 8 A.M.

## PRESSURE

Highest, 30.2 in: and more, over Central France and apparently over Southeastern Europe also.  
 Lowest, 29.8 in: and less, in a depression, the centre of which lies off the NW. of Scotland. There is also a very shallow secondary disturbance over N. Germany.  
 Gradients moderate for SW winds, over our islands and for W winds over Northern Europe, slight elsewhere.  
 Barometer falling in extreme north and northwest of our islands, rising in southeast and south and over France.

## TEMPERATURE

Highest, 65° at <sup>(and daily)</sup> Kilmory, 64° at Perpignan, 62° at Lisbon, Nice, Seilly, and Valencia, 60° in London.  
 Lowest, 41° at Kibbo, 50° at Humber, and Christiansund, 55° at Sumburg Head, 56° at Stromness and Shields.

It has risen rather decidedly over Great Britain since yesterday, and is rather high over England and Ireland for the time of year.

## WIND

SW<sup>ly</sup> in our islands — light at the southeastern and southern stations, moderate in the west and northwest, strong at Andersons.  
 E<sup>ly</sup> over the Bay of Biscay, the south of France and the Netherlands — very variable over Germany.  
 S<sup>ly</sup> over the Baltic — Calm over the Bay of Biscay.

## WEATHER

Fine and light in many places, cloudy or overcast in some localities.  
 Showery at Aberdeen — foggy and rainy at Tralee Point.  
 Hazy at several southern stations — changeable generally.

## SEA

Rather rough in the Minch, moderate on our western coast, slight or smooth elsewhere.

## PROBABLE CHANGES IN SYSTEM NOW PREVALENT

A continuation of SW<sup>ly</sup> breezes and mild weather seems probable with squally, showery weather in the west, fair weather as a whole in the east and southeast.

## FORECASTS

For the 24 hours ending at NOON on 10<sup>th</sup> SEP<sup>r</sup> 1889.

### DISTRICTS.

### FORECASTS.

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

SW<sup>ly</sup> and S<sup>ly</sup> breezes, moderate; some showers, bright intervals.

SW<sup>ly</sup> breezes, moderate; cloudy and clear alternately, some passing showers.

### DISTRICTS.

### FORECASTS

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

SW<sup>ly</sup> and S<sup>ly</sup> winds, gusty, showery, unsettled.

S<sup>ly</sup> winds, increasing in force, squally, showery.

### WARNINGS

NONE ISSUED.

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



# YESTERDAY'S 2 P.M. REPORTS.

	Bar:	Ther:		Wind		Wea:	Sea			Bar:	Ther:		Wind		Wea:	Sea:	
		D	W	D	F						D	W	D	F			
Skudesnaes ...	30. 30	70	55	20	0	b	2			Holyhead ...	30. 04	63	58	8	3	c	2
Sumburgh Head ...										Valencia ...							
Stornoway ...	30. 00	63	61	8	5	bc	4			Scilly ...							
Aberdeen ...										Jersey ...	30. 11	66	61	SSE	2	b	2
Shields ...										Dungeness ...	30. 07	66	61	WSW	1	c	1
Ardrossan ...										London ...							
Malin Head ...	29. 84	57	56	SSE	5	0	2			Yarmouth ...							
Mullaghmore ...										Rochefort ...	30. 15	75	69	WSW	3	b	3
Belmullet ...	29. 84	63	59	SW	3	c	*										

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

The reports for yesterday morning showed that pressure ranged from 30.3 inches and more, in a large high pressure area lying over Scandinavia, from 30.2 inches and more over the North Sea, North Germany, Poland and Southern Russia, and from 30.1 inches and more in a small, new system over the Bay of Biscay and North of Spain, to 29.8 inches and less in a depression off the North West of Ireland, to rather below 30.1 inches in a shallow secondary system lying over Belgium and the North East of France, and to 30.0 inches and less in a rather small disturbance near Malta. Gradients were slight except over Ireland and the western parts of Great Britain, where they were slightly steep for winds from the Southward. The wind was consequently light and mainly easterly over South Eastern Central and Southern Europe, as well as over the North Sea - N.E. over the east and south of England - but S.E. to S.W., and fresh, on our western coasts, and S.W. light at Valencia. The weather was very variable; it was fine and bright over Southern and South Western Europe, and on the eastern shores of the North Sea, clear in some parts of our Islands, cloudy or foggy at our other stations, and rainy on several parts of our Western coasts. Rain was falling in some parts of Germany also, and at Stockholm, while in Austria and Southern Russia the sky was overcast, and in Poland clear. Temperature exceeded 70° on the W. & S. shores of the Mediterranean only - the highest morning values being 79° at Brindisi and La Galle, 77° at Algiers, 76° at Malta, 74° at Oran, 73° at Barcelona and 70° at Tangier. It was lowest over northern and Central Russia, the lowest values being 44° at Archangel, 47° at Moscow, 48° at Uleaborg and Warsaw and, locally at Christiansund, 49° at Kiev, 51° at Kuopio, 52° at Oulu, 53° at Haparanda and 54° at Lulea, 55° in London.

Later on the two high pressure areas moved E. and temperature over our Islands began to rise.

## SUMMARY OF CHANGES IN THE WEATHER OVER THE BRITISH ISLANDS AND THEIR NEIGHBOURHOOD FROM THE 1<sup>ST</sup> TO THE 7<sup>TH</sup> SEPTEMBER 1889.

In the course of this week there have been certain well-defined changes in the weather over our Islands, each of which has lasted for two or three days. The week commenced with fine weather and easterly winds generally, but with indications that less fair conditions were approaching us from the South Westward and Southward.

Between Monday and Wednesday several small shallow and ill-formed depressions came over the United Kingdom from the Southward, bringing with them thunderstorms (with much vivid lightning), and close, damp, misty air. The rainfall, however, was not very large over either Ireland or England, while Scotland escaped without any at all. In France the falls were heavy locally - especially at Boulogne.

Pressure then recovered, and an anticyclonic system spread not only over these Islands, but the whole of Western Europe. Very light and variable winds (mainly N. and N.E. in the east and south) spread over the Kingdom with dry weather. The amount of cloud, however, was occasionally large, fog and haze, usually of a damp character prevailed frequently, and generally - and the dews at night were very heavy. The intervals of bright sunshine were frequent, and the air was warm.

At the close of the week, these conditions seemed to be, in their turn, giving way. Showery weather was spreading over our eastern and southeastern coasts, where, also the appearance of the sky was becoming very 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 *Tuesday, 10<sup>th</sup> September, 1889.*  
 Issued by the Meteorological Office, 63, Victoria Street, London. *R. H. SCOTT, Secretary.*

STATIONS.		YESTERDAY EVENING.					8 A.M. TO DAY.										PAST 24 HOURS.		
		Barometer at 32° F. and Sea Level.	Temp. in Shade.	WIND.		Weather.	BAROMETER.		SHADE TEMP.			WIND.		Sea. (0 to 2.)	SHADE TEMP.				
				Dirce.	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.	Dirce.	Force. (0 to 12.)		Weather.	Max.	Min.	Amount of Rainfall.	
SCANDINAVIA.	Haparanda ...	29.89	4.5	N	h	0	30.03	+ 2.2	41	37	- 1.4	N	4	c	61	?	.		
	Hernösand ...	29.97	51	Z	0	b	29.95	- .04	51	47	- 1	SE	6	0	65	43	.		
	Stockholm ...	30.06	55	Z	0	b	30.00	- .13	56	53	- 1	E	2	b	66	48	.		
	Wisby ...	30.06	55	S	4	b	30.08	- .09	58	56	0	E	4	b	68	50	.		
	Bodö ...	30.10	42	NW	1	c	30.09	?	41	38	0	ENE	2	b	?	36	0.04		
	Christiansund	29.98	53	ENE	3	0	29.93	- .16	54	52	- 1.4	NW	6	0	3	55	50	0.04	
	Skudesnaes ...	30.03	59	S	5	r	30.01	- .09	57	56	- 1	NW	4	0	3	59	58	0.16	
	Christiania Fjord (Fierder)	30.04	60	SW	5	b	29.96	- .14	60	57	- 1	NW	6	0	3	61	59	.	
	Skagen (The Scaw)	30.07	58	SW	1	b	30.02	- .11	58	57	- 1	W	3	m	2	63	52	.	
	Fanö ...	30.15	52	Z	0	c	30.15	+ 0.4	61	60	+ 4	W	3	c	64	52	.		
BRITISH ISLANDS.	Sumburgh Head	29.89	55	W	1	b	29.92	+ .01	55	50	0	W	2	c	3	58	48	0.03	
	Stornoway ...	29.87	58	SW	5	bc	29.93	+ .19	56	56	0	SW	4	r	4	62	52	0.02	
	Wick ...	29.91	55	SW	2	b	30.01	+ .17	57	55	0	S	2	p	1	69	49	.	
	Nairn ...	29.93	61	SW	2	bc	29.99	+ .18	56	54	- 6	Z	0	r	1	67	51	0.02	
	Aberdeen ...	29.96	63	SW	2	b	30.05	+ .12	57	55	0	SW	1	omp	3	70	53	0.02	
	Leith ...	30.00	61	SW	3	c	30.06	+ .13	62	62	- 3	NW	1	bc	2	69	56	.	
	Shields ...	30.02	66	SW	3	c	30.09	+ .11	59	57	- 1	SW	3	c	2	69	54	.	
	Spurn Head ...	30.09	65	SW	3	bc	30.17	+ .10	61	59	- 1	SW	3	bc	2	69	57	.	
	York ...	30.08	66	NW	1	bc	30.17	+ .11	58	56	- 2	S	1	bc	2	70	51	.	
	Loughborough	30.12	66	SW	1	0	30.20	+ .11	59	58	- 1	SW	1	cmw	2	72	54	.	
GERMANY.	Ardrossan ...	30.02	60	S	2	0	30.05	+ .13	59	58	0	S	3	0	3	62	57	.	
	Malin Head ...	29.97	59	NW	1	c	29.94	+ .06	60	58	- 1	S	4	0	2	63	57	.	
	Mullaghmore ...	29.98	61	SW	4	c	29.97	+ .04	63	60	- 1	SE	6	0	4	66	58	0.02	
	Belmullet ...	29.98	60	SW	4	0	29.90	- .01	63	61	+ 5	SW	6	0	2	63	58	0.02	
	Donaghadee ...	30.03	62	SW	3	bc	30.07	+ .10	61	60	+ 3	SW	4	b	2	70	56	.	
	Barrow-in-Furness	30.06	61	SW	2	c	30.13	+ .14	59	58	- 1	SE	3	0	2	63	57	.	
	Liverpool (Bidston)	30.10	63	W	2	0	30.15	+ .10	59	56	- 3	SE	2	bc	2	69	54	.	
	Holyhead ...	30.09	59	SW	4	0	30.12	+ .09	60	59	- 1	SW	4	ogm	4	65	58	.	
	Parsonstown ...	30.03	64	SW	2	r	30.03	+ .03	62	60	+ 4	Z	0	0	2	69	57	.	
	Valencia ...	30.03	61	SW	2	om	29.96	- .05	62	60	0	SE	6	ogm	6	64	59	0.01	
FRANCE AND NETHERLANDS.	Roche's Point...	30.08	61	SW	3	m	30.06	+ .03	60	59	- 1	SW	4	0	4	63	58	0.02	
	Pembroke (St. Ann's Hd.)	30.13	60	S	1	m	30.16	+ .08	58	57	- 2	SE	4	og	4	64	57	.	
	Scilly ...	30.14	63	SW	1	om	30.13	- .01	59	59	- 3	SE	5	?	5	67	57	.	
	Prawle Point ...	30.18	60	S	2	b	30.21	+ .06	57	57	- 1	ENE	1	?	1	59	55	0.05	
	Jersey (St. Aubin's)	30.19	66	NW	3	bc	30.21	+ .02	66	62	+ 6	NW	1	bc	1	70	55	.	
	Hurst Castle ...	30.18	62	SW	2	m	30.24	+ .07	60	60	- 1	SW	1	om	1	67	59	.	
	Dungeness ...	30.17	63	NW	3	bc	30.23	+ .08	60	59	- 1	SE	1	m	1	69	56	.	
	London ...	30.16	67	W	2	c	30.23	+ .08	61	59	0	SW	1	0	2	74	57	.	
	Oxford ...	30.18	61	SW	1	0	30.23	+ .09	57	56	- 2	SW	1	of	2	68	56	.	
	Cambridge ...	30.16	65	S	1	b	30.22	+ .12	60	59	+ 2	SW	1	0	2	71	54	.	
PENIN SULA.	Yarmouth ...	30.14	65	SW	1	b	30.20	+ .08	60	59	+ 2	NW	2	bc	2	69	57	.	
	Cuxhaven ...	30.15	60	N	1	m	30.22	+ .11	59	58	0	SW	2	m	2	64	58	.	
	Berlin ...	30.14	65	Z	0	c	30.22	+ .12	57	54	- 1	NW	2	b	2	70	54	.	
	Wiesbaden ...	?	?	?	?	?	30.30	+ .14	54	53	- 3	Z	0	b	2	66	48	.	
	Munich ...	30.26	55	NW	1	c	30.35	+ .16	52	51	- 3	NW	3	0	2	61	48	.	
	The Helder ...	?	?	?	?	?	30.28	+ .09	60	57	+ 7	SW	1	bc	2	68	55	.	
	Brussels (3 a.m.)	?	63	NW	1	bc	?	?	61	60	+ 3	SW	1	m	0	70	?	.	
	Cape Gris Nez	?	64	NE	1	b	30.28	+ .07	54	53	+ 3	Z	0	m	2	70	49	.	
	Brest ...	?	64	Z	0	m	?	?	62	60	0	E	3	b	2	70	55	0.12	
	Lorient ...	30.20	68	NW	1	b	30.17	- .04	61	59	+ 2	E	3	b	2	72	57	.	
Rochefort ...	30.21	71	NW	3	b	30.21	- .01	62	60	0	ENE	3	b	?	84	57	.		
Belfort ...	30.17	61	NW	1	b	30.24	?	52	48	?	SW	1	b	2	64	?	.		
Lyons ...	30.17	68	N	2	b	30.23	?	59	54	?	ENE	1	b	2	76	56	.		
Nice ...	30.02	68	SW	3	b	30.08	+ .03	65	61	+ 3	SE	2	b	1	79	59	.		
PENIN SULA.	Perpignan ...	30.08	50	NW	2	b	30.13	- .01	63	58	- 1	W	2	b	2	88	57	.	
	Biarritz ...	30.10	72	NE	3	b	30.11	- .05	63	61	- 2	Z	0	b	2	77	61	.	
	Corunna ...	?	?	?	?	?	?	?	?	?	?	?	?	?	?	?	.		
Lisbon ...	30.00	78	NW	4	b	30.11	+ .07	69	58	+ 7	NW	2	b	6	84	?	.		

For Explanation of Columns, see bottom of p. 4.

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



# WEATHER CHARTS

for 8 a.m. on

Tuesday, 10<sup>th</sup> September.

1889.

## BAROMETER, WIND AND SEA.

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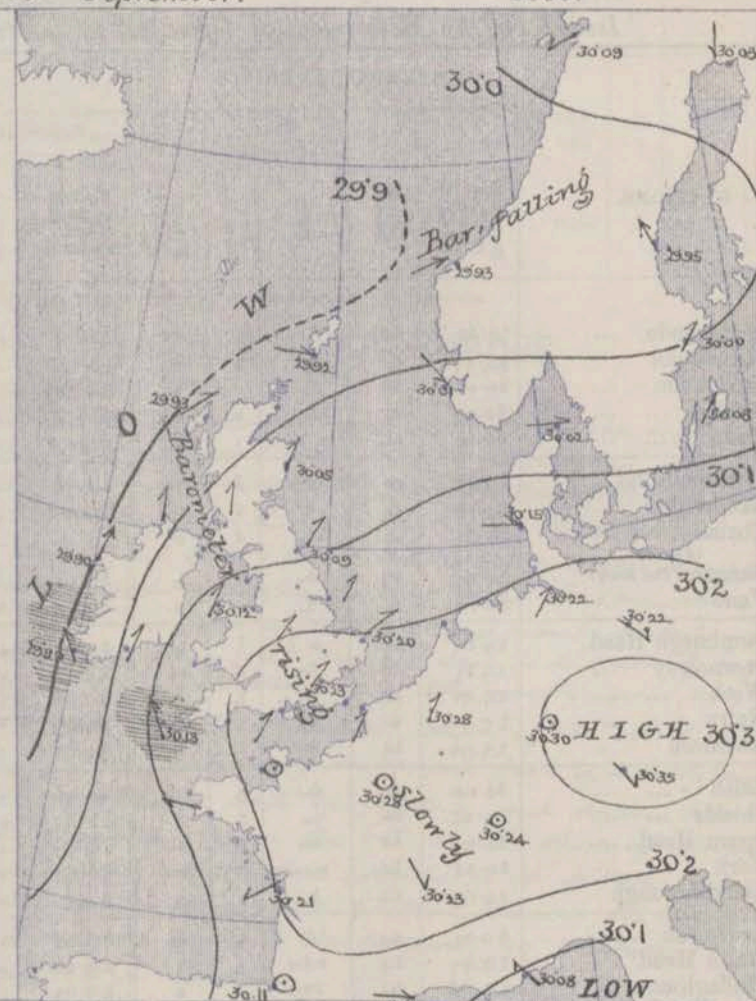
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During the 15 Years: 1871—1885.

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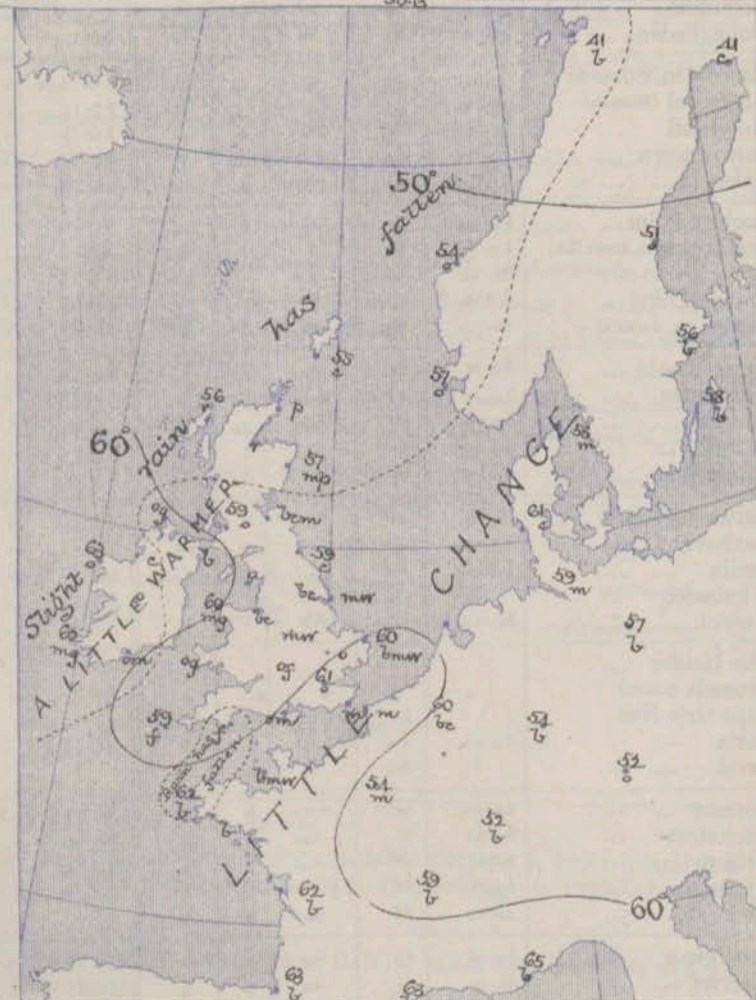
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(For the month of September.)

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Leith .....	62.2	47.6	53.2	50.8	2.47
Shields .....	59.9	49.3	53.1	51.1	2.58
York .....	63.3	47.8	52.8	51.0	2.98
Loughborough .....	65.0	47.9	54.3	52.4	3.06
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Donaghadee.....	59.6	48.8	53.3	52.1	3.22
Holyhead .....	60.6	52.8	55.7	53.5	3.35
Liverpool .....	61.2	50.9	54.5	51.9	3.56
Parsonstown .....	61.6	47.5	53.1	51.1	3.49
Valencia .....	61.7	51.5	56.3	53.9	4.87
Roche's Point .....	61.9	51.0	55.4	53.2	4.39
Pembroke.....	60.2	53.1	56.2	53.8	3.80
Scilly .....	61.8	54.8	58.4	56.2	3.69
Jersey .....	65.2	54.9	59.8	57.1	3.51
Hurst Castle .....	64.2	52.2	57.2	55.8	3.35
Dover .....	62.9	53.0	57.9	55.3	2.86
LONDON .....	66.3	49.4	55.9	53.6	2.59
Oxford .....	63.8	49.1	54.2	52.3	2.91
Cambridge .....	65.5	48.1	54.4	52.9	2.48
Yarmouth .....	62.0	51.1	56.2	54.4	3.17

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





# GENERAL SITUATION AT 8 A.M.

PRESSURE	<p>Highest, 30.1 in: to 30.3 in: in a high pressure area covering Germany, France, England, and the southern half of the North Sea.</p> <p>Lowest, 29.9 in: and less, off the west of Ireland and to the northward of the Shetlands = 30.1 in: and less, over the Gulf of Genoa.</p> <p>Gradients moderate over our northern district, slight elsewhere.</p> <p>Barometer unsteady, in the west, rising slightly in the east and south.</p>
TEMPERATURE	<p>Highest, 69° at Lisbon, 66° at Jersey, 65° at Nice, 63° at Biarritz, 62° at Valencia and Tarragona, and 61° in London.</p> <p>Lowest, 41° at Bodo and Haparanda, 51° at Helsingfors, 52° at Hamnäs and Belfort, 54° at Wiesbaden and Paris.</p> <p>Daily maxima recorded over our islands yesterday ranged between 70° and 75°, those at Perpignan, Rochefort and Lisbon exceeded 80°.</p>
WIND	<p>Light E<sup>ly</sup> on the shore of the Bay of Biscay — moderate to strong S<sup>ly</sup> on our western coasts.</p> <p>Light SW<sup>ly</sup> over England; — very light and variable over the Channel and France.</p> <p>Moderate W<sup>ly</sup> over Denmark and the southern half of Scandinavia.</p>
WEATHER	<p>Fine and bright over Spain, France and Germany — gloomy on our western coasts.</p> <p>Showery over Scotland. Fair over England — foggy and hazy in the Channel.</p> <p>Slight rain has fallen at several of our eastern and northern coasts.</p> <p>Solar halos have been seen in many places.</p>
SEA	<p>Rough off our extreme southwestern coast, moderate in the west and northeast generally.</p>

## PROBABLE CHANGES IN SYSTEM NOW PREVALENT

There is no indication of any material change at present )

## FORECASTS

For the 24 hours ending at NOON on 11<sup>TH</sup> SEPT<sup>R</sup> 1889.

DISTRICTS.	FORECASTS.	DISTRICTS.	FORECASTS
0 { SCOTLAND NORTH	SW <sup>ly</sup> breezes, moderate, some showers.	6 { SCOTLAND WEST	S <sup>ly</sup> winds, moderate; some showers
1 { SCOTLAND EAST	S <sup>ly</sup> breezes, light; fair as a whole.	7 { ENGLAND N.W.	
2 { ENGLAND N.E.		8 { ENGLAND S.W.	Same as Nos 3 to 5
3 { ENGLAND EAST	S <sup>ly</sup> or SE <sup>ly</sup> breezes, light; fine, warm, hazy close.	9 { IRELAND NORTH	S <sup>ly</sup> breezes, moderate or fresh; some rain.
4 { MIDLAND COUNTIES		0 { 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:	Ther:		Wind		Wea:	Sea		Bar:	Ther:		Wind		Wea:	Sea:
		D	W	D	F					D	W	D	F		
Skudesnaes ...															
Sumburgh Head ...	29.83	55	55	SSW	1	o	3		Holyhead ...	30.08	61	SW	3	c	3
Stornoway ...	29.85	62	60	SW	5	bc	5		Valencia ...	30.03	63	S	4	om	4
Aberdeen ...	29.92	69	39	SW	3	b	3		Scilly ...	30.13	67	SW	3	em	4
Shields ...	30.01	68	63	SSW	3	c	2		Jersey ...	30.19	69	SW	2	b	2
Ardrossan ...	30.00	60	58	S	3	b	3		Dungeness ...	30.16	67	SW	3	bc	2
Malin Head ...	29.95	62	57	W	2	b	2		London ...	30.14	72	W	2	bc	2
Mullaghmore ...	29.98	62	58	WSW	4	cp	3		Yarmouth ...	30.12	69	WSW	1	b	2
Belmullet ...	29.98	63	59	SW	4	c	3		Rochefort ...	30.22	77	SW	2	b	2

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

The reports for yesterday morning show that pressure exceeded 30.1 ins. in two large areas, one covering the whole of Southeastern and Eastern Europe and the Baltic, the other lying over Spain, France, Western Germany, the Netherlands and south of England; and that over Central France, on the one hand, and Central Russia on the other, pressure exceeded 30.2 ins. From these regions readings decreased to 29.8 ins. and less in a depression over Lapland and to about 29.7 ins. in another near the Hebrides, while in a southerly direction they did not get below 30.0 ins. anywhere. SW winds were prevalent over the whole of the British Isles and the Channel, and were light in force on our southern coasts, moderate in the east, and moderate to fresh in the west and north. In Spain and the south of France the wind was mainly E<sup>ly</sup>, and in the south of Sweden S<sup>ly</sup>, — elsewhere it was extremely variable in direction and light in force. Weather was fine and bright over Southern Europe and the western parts of the British Isles, as well as over the Southern half of Scandinavia, and in some parts of North Germany; elsewhere it varied greatly, fog or haze was reported in numerous localities; rain was falling at Moscow, Rode, Aberdeen, and Travelsbort, and in many other places the amount of cloud was very large. Temperature continued above 70° on the southeastern, southern, and eastern shores of the Mediterranean, and was as high as 80° at Barcelona, 79° at La Calle, 77° at Brindisi, 75° at San Fernando, (?) 74° at Cagliari, 73° at Algiers and Algiers, 71° at Sangunais, and 69° at Aguan and Aemina. The lowest values reported were 41° at Rode (where rain was falling) 50° at Ulsaborg, Christiansund, Hunsund, Moscow, Warsaw, and Cracow, 51° at Charlus, and Paris, 52° at Le Mans, and 53° at Bretau.

Later on the depression in the northwest passed off, and temperature rose to 70° and more over England, and to 80° and more in several parts 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 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 11<sup>TH</sup> SEPTEMBER 1889.

Issued by the Meteorological Office, 63, 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 12.)	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 ...	29.99	7	N	2	6	30.01	-0.02	40	36	-1	NB	4	0	0	50	36	—	
	Hernösand ...	29.94	43	NNE	5	0	30.01	+0.06	42	38	-9	NNW	6	0	0	66	41	0.53	
	Stockholm ...	29.84	56	WNW	4	0	29.95	-0.05	48	45	-8	NNW	4	0	0	66	41	0.04	
	Wisby ...	29.91	60	SW	6	0	29.93	-0.15	53	49	-5	N	6	0	0	64	52	0.08	
	Bodö ...	30.06	44	ENE	2	6	30.14	+0.05	45	40	+4	E	2	0	1	46	37	—	
	Christiansund	30.02	49	NE	3	0	30.08	+0.15	47	45	-7	E	1	0	2	52	43	0.04	
	Skudesnaes ...	30.06	57	L	0	0	30.04	+0.03	57	53	0	SE	2	0	3	61	54	0.04	
	Christiania Fjord (Fæder)	29.93	61	W	3	0	30.02	+0.06	56	51	-4	ENE	2	0	2	61	54	—	
	Skagen (The Scaw)	29.93	57	WNW	4	0	30.01	-0.01	59	54	+1	N	2	0	1	63	57	—	
	Fanö ...	30.14	60	WSW	3	0	30.13	-0.02	59	57	-2	N	3	0	0	64	57	—	
BRITISH ISLANDS.	Sumburgh Head	29.99	54	W	2	0	29.94	+0.02	57	53	-2	E	2	0	3	61	51	0.17	
	Stornoway ...	29.94	57	SW	2	0	29.93	0.0	58	53	+2	SW	1	0	2	60	52	0.70	
	Wick ...	30.00	57	L	0	0	29.97	-0.04	60	58	+8	L	0	0	0	60	54	0.53	
	Nairn ...	29.99	65	SW	1	0	29.94	-0.05	60	58	+4	SW	1	0	1	69	54	0.04	
	Aberdeen ...	30.03	64	SW	2	0	29.96	-0.09	60	58	+3	SW	2	0	2	69	57	0.01	
	Leith ...	30.05	64	SW	1	0	29.99	-0.07	62	60	0	WSW	1	0	0	72	56	—	
	Shields ...	30.09	68	SW	2	0	30.03	-0.06	60	59	+1	SW	2	0	2	70	57	—	
	Spurn Head ...	30.15	63	S	2	0	30.11	-0.06	63	60	+2	SW	3	0	3	69	58	—	
	York ...	30.13	69	S	1	0	30.09	-0.04	62	60	+4	S	1	0	0	74	54	—	
	Loughborough	30.16	69	SW	2	0	30.13	-0.07	63	60	+4	SE	2	0	0	77	58	—	
BRITISH ISLANDS.	Ardrossan ...	30.06	61	SE	4	0	30.01	-0.04	58	53	-1	SW	4	0	4	65	58	0.12	
	Malin Head ...	29.92	65	S	5	0	29.98	+0.04	58	56	-2	S	1	0	1	69	58	0.74	
	Mullaghmore ...	29.92	67	S	6	0	29.99	+0.02	58	56	-5	L	0	0	1	69	56	0.40	
	Belmullet ...	29.91	61	SW	5	0	29.97	+0.07	58	57	-5	S	3	0	0	67	57	0.21	
	Donaghadee ...	30.06	60	SW	4	0	30.02	-0.05	60	60	-1	W	3	0	1	70	57	0.15	
	Barrow-in-Furness	30.08	66	NE	2	0	30.05	-0.03	61	60	+2	SE	1	0	0	68	58	—	
	Liverpool (Bidston)	30.11	69	SE	2	0	30.09	-0.06	63	59	+4	SE	2	0	2	72	58	—	
	Holyhead ...	30.11	60	SW	2	0	30.07	-0.05	60	60	0	SW	5	0	4	66	57	—	
	Parsonstown ...	30.11	62	SE	1	0	30.01	-0.02	59	58	-3	L	0	0	0	68	57	0.06	
	Valencia ...	29.96	61	SE	6	0	29.95	-0.01	60	59	-2	SE	4	0	4	64	55	0.71	
BRITISH ISLANDS.	Roche's Point...	30.04	61	S	4	0	30.03	-0.03	61	61	+1	S	4	0	4	62	60	0.15	
	Pembroke (St. Ann's Hd.)	30.11	61	SE	3	0	30.12	-0.04	59	59	+1	S	2	0	2	64	58	—	
	Scilly ...	30.10	63	S	5	0	30.11	-0.02	61	61	+2	SW	2	0	6	65	58	—	
	Prawle Point...	30.19	60	SE	2	0	30.17	-0.04	62	60	+5	WSW	3	0	2	62	56	—	
	Jersey (St. Aubin's)	30.19	72	SE	3	0	30.20	-0.01	67	63	+1	SE	1	0	1	76	53	—	
	Hurst Castle ...	30.21	68	S	1	0	30.19	-0.05	65	63	+5	L	0	0	1	70	59	—	
	Dungeness ...	30.21	65	L	0	0	30.21	-0.02	65	63	+5	WSW	1	0	0	69	56	—	
	London ...	30.20	72	S	2	0	30.18	-0.05	66	62	+5	SW	1	0	0	78	53	—	
	Oxford ...	30.21	65	SW	3	0	30.16	-0.07	63	60	+6	SE	2	0	0	76	54	—	
	Cambridge ...	30.20	65	S	1	0	30.17	-0.05	66	63	+6	S	1	0	0	75	53	—	
GERMANY.	Yarmouth ...	30.20	64	S	1	0	30.17	-0.03	64	62	+4	SW	1	0	1	65	57	—	
	Cuxhaven ...	30.21	59	W	2	0	30.16	-0.06	61	60	+2	W	2	0	0	67	59	—	
	Berlin ...	30.22	67	L	0	0	30.21	-0.01	62	59	+5	WNW	3	0	0	70	53	—	
	Wiesbaden ...	30.23	67	S	0	0	30.29	-0.01	54	53	0	L	0	0	0	70	50	—	
	Munich ...	30.25	54	E	1	0	30.25	0.0	51	50	-1	SE	4	0	0	64	43	—	
	The Helder ...	30.23	58	WSW	1	0	30.19	-0.04	58	58	0	SW	1	0	1	64	52	—	
	Brussels (9 a.m.)	?	67	W	1	0	?	?	64	58	+3	SW	1	0	0	74	56	—	
	Cape Gris Nez	?	67	W	1	0	?	?	64	58	+3	SW	1	0	0	72	61	—	
	Paris ...	30.20	66	E	1	0	30.26	-0.02	54	53	0	L	0	0	0	77	50	—	
	Brest ...	?	69	SE	3	0	?	?	62	60	0	SW	2	0	3	75	57	—	
FRANCE AND NETHERLANDS.	Lorient ...	30.18	75	L	0	0	30.18	+0.01	62	61	+1	SE	2	0	3	79	59	—	
	Rochefort ...	30.19	81	E	3	0	30.22	+0.01	61	59	-1	ENE	3	0	2	93	57	—	
	Belfort ...	30.17	59	SW	1	0	30.24	0.0	53	49	+1	SE	1	0	0	64	46	—	
	Lyons ...	30.19	67	N	1	0	30.26	+0.03	58	54	-1	ENE	0	0	0	75	51	—	
	Nice ...	30.12	70	SE	2	0	30.18	+0.10	67	60	+2	ENE	2	0	1	79	61	—	
	Perpignan ...	30.13	68	L	0	0	30.21	+0.08	60	59	-3	W	2	0	0	81	57	—	
	Biarritz ...	30.09	73	NE	3	0	30.17	+0.06	68	66	+5	W	3	0	2	88	?	—	
	Corunna ...	30.04	80	S	1	0	30.08	-0.03	68	64	-1	NE	1	0	5	90	66	—	
	Lisbon ...	30.04	80	S	1	0	30.08	-0.03	68	64	-1	NE	1	0	5	90	66	—	
	Peninsula	30.04	80	S	1	0	30.08	-0.03	68	64	-1	NE	1	0	5	90	66	—	

For Explanation of Columns, see bottom of p. 4.

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



# WEATHER CHARTS

for 8 a.m. on

Wednesday, 11<sup>th</sup> September,

1889.

## BAROMETER, WIND AND 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 bars 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: \*

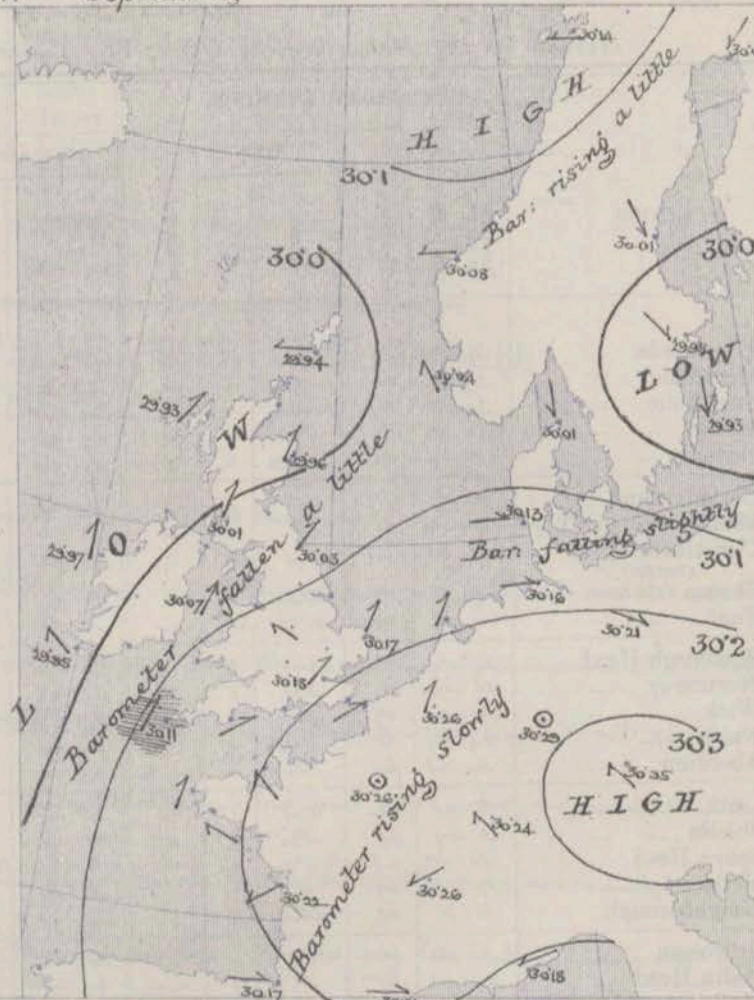
— = Rough. — = High.

### MEAN HEIGHT OF THE BAROMETER

at 8.0 a.m. for the month of September.

During the 15 Years: 1871–1885.

STATIONS.	MEAN READINGS.
Sumburgh Head	29.766
Stornoway	29.780
Wick	29.793
Nairn	29.809
Aberdeen	29.819
Leith	29.846
Shields	29.860
York	29.905
Loughborough	29.924
Ardrossan	29.850
Donaghadee	29.869
Holyhead	29.894
Liverpool	29.899
Parsonstown	29.904
Valencia	29.917
Roche's Point	29.915
Pembroke	29.913
Sailly	29.943
Jersey	29.955
Hurst Castle	29.960
Dover	29.941
LONDON	29.945
Oxford	29.935
Cambridge	29.931
Yarmouth	29.916



## 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.

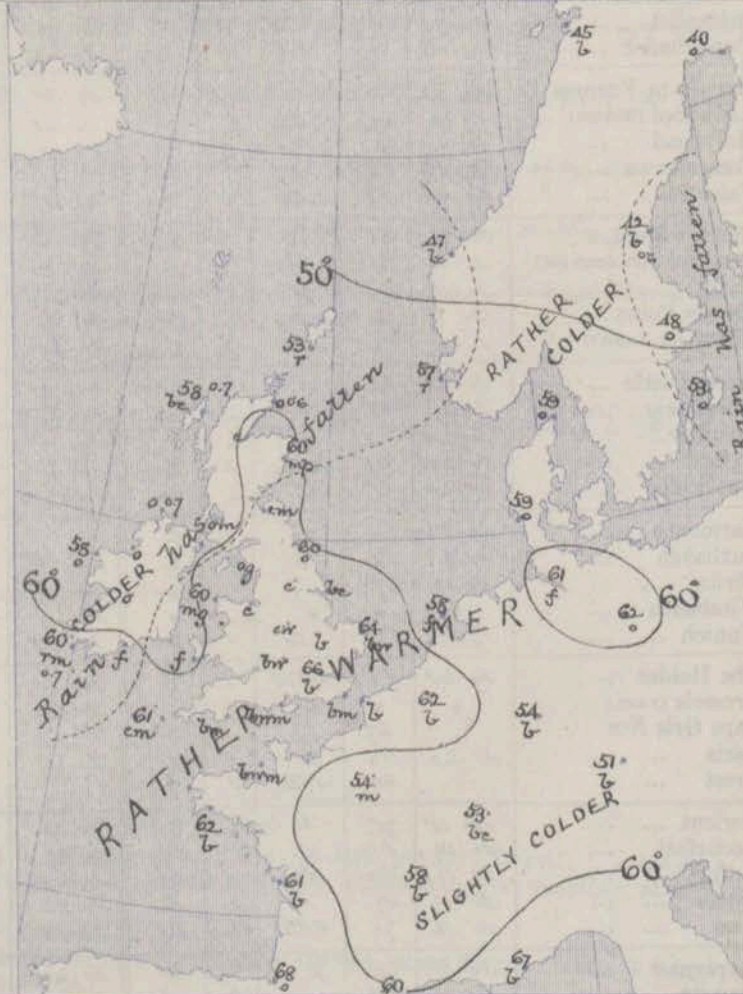
**RAINFALL**—A dotted line separates the districts in which rain has fallen from those where there has been none. Falls of 0.5 in. or more, are quoted in figures.

### 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	46.3	50.9	49.2	3.46
Stornoway.....	55.1	45.7	51.1	49.8	4.13
Wick.....	57.6	45.5	51.8	49.9	2.66
Nairn.....	59.0	46.8	51.2	48.8	2.73
Aberdeen.....	59.2	46.7	52.1	49.8	3.22
Leith.....	62.2	47.6	53.2	50.8	2.47
Shields.....	59.9	49.3	53.1	51.1	2.58
York.....	63.3	47.3	52.8	51.0	2.98
Loughborough.....	65.0	47.9	54.3	52.4	3.06
Ardrossan.....	59.7	49.6	53.5	51.3	3.87
Donaghadee.....	59.6	48.8	53.8	52.1	3.22
Holyhead.....	60.6	52.8	55.7	53.4	3.35
Liverpool.....	61.2	50.9	54.5	51.9	3.56
Parsonstown.....	61.6	47.5	53.1	51.1	3.49
Valencia.....	61.7	51.5	56.3	53.9	4.87
Roche's Point.....	61.9	51.0	55.4	53.2	4.39
Pembroke.....	60.2	53.1	56.2	53.8	3.89
Sailly.....	61.8	54.8	58.4	56.2	3.69
Jersey.....	65.2	54.9	59.8	57.1	3.51
Hurst Castle.....	64.2	52.2	57.2	54.8	3.35
Dover.....	62.9	53.0	57.9	55.3	2.86
LONDON.....	66.3	49.4	55.9	53.6	2.59
Oxford.....	63.8	49.1	54.2	52.3	2.94
Cambridge.....	65.5	48.1	54.4	52.0	2.48
Yarmouth.....	62.0	51.1	56.2	54.4	0.17

NOTE.—The Temperature means are for the 15 years 1871–85, the Rainfall means are mainly those for the 20 years 1860–85.





# GENERAL SITUATION AT 8 A.M.

PRESSURE	Highest, 30.20 in. to 30.35 in. over France and Germany — 30.1 in. and more, over the north of Norway. Lowest, 30.0 in. and less, over Scotland and off the west of Ireland — and also over the Baltic and east of Sweden. Gradients moderate in the far west, slight elsewhere. Barometer falling slightly and unsteadily.
TEMPERATURE	Highest, 68° at Lisbon and Biscaya, 67° at Nice and Jersey, 66° in London, 63° at Oxford and Loughborough. Lowest, 40° at Hafnunda, 42° at Helsingfors, 45° at Rode, 47° at Christiansund, and 48° at Stockholm, 53° at Nisby and Lumburg Head. The daily maxima recorded yesterday were as high as 70° to 78° over Great Britain, 81° at Portofino, 86° at Biscaya, 90° at Lisbon, and 93° at Helsingfors.
WIND	S <sup>W</sup> (but variable locally) over the United Kingdom — light in the east and south, moderate in the west. Light W <sup>W</sup> over Holstein and North Germany — moderate N <sup>W</sup> in Sweden. Light E <sup>W</sup> in the south and west of France — very variable elsewhere.
WEATHER	Clear and bright over Spain, France, Germany, and the greater part of England, as well as over the northern half of Norway. Cloudy or overcast on our western coasts, foggy at our southwestern stations, rainy at Valence, Aberdeen, Lumburg Head and Skudenæs. The rainfall in past 24 hours has amounted to 0.7 in at Valence, Malin Head, and Skudenæs.
SEA	Slight or smooth in the north, east and south, moderate on our western coasts as a whole. Scilly reports a heavy ground swell to be rolling in from west.

## PROBABLE CHANGES IN SYSTEM NOW PREVALENT

An increase in the force of the S<sup>W</sup> wind is probable at our western stations, with rain; there is no indication of immediate change in the weather at our more eastern and southern stations.

## FORECASTS

For the 24 hours ending at NOON on 12<sup>TH</sup> SEPT. 1889.

DISTRICTS.	FORECASTS.	DISTRICTS.	FORECASTS.
0 SCOTLAND NORTH	S <sup>W</sup> and SW <sup>W</sup> breezes, light; some showers	6 SCOTLAND WEST	S <sup>W</sup> breezes, moderate or light; fine.
1 SCOTLAND EAST		7 ENGLAND N.W.	
2 ENGLAND N.E.		8 ENGLAND S.W.	
3 ENGLAND EAST	SW <sup>W</sup> or Variable airs; fair generally.	9 IRELAND NORTH	S <sup>W</sup> winds, increasing in force; rain at times.
4 MIDLAND COUNTIES		0 IRELAND SOUTH	
5 ENGLAND SOUTH	Very light breezes; fine, warm, hazy in night.		
		WARNINGS	NONE ISSUED.

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



# YESTERDAY'S 2 P.M. REPORTS.

	Bar:		Ther:		Wind		Wea:	Sea		Bar:		Ther:		Wind		Wea:	Sea
	D	W	D	F	D	F				D	W	D	F	D	F		
Skudesnaes ...	30.08	60	57	WSE	2	0	3			Holyhead ...	30.15	65	61	SE	3	b	3
Sumburgh Head ...	29.97	57	54	W	3	0	3			Valencia ...	29.98	63	60	SE	7	om	6
Stornoway ...	29.95	55	56	S	3	0	3			Scilly ...	30.10	65	63	SE	5	om	5
Aberdeen ...	30.05	64	60	SE	2	cm	3			Jersey ...	30.22	73	65	E	2	b	2
Shields ...	30.12	69	65	SE	3	c	2			Dungeness ...	30.24	66	63	E	0	bc	0
Ardrossan ...	30.04	62	50	S	4	c	4			London ...	30.21	76	64	WSE	2	b	*
Malin Head ...	29.95	69	63	S	5	cm	2			Yarmouth ...	30.22	65	62	S	2	b	2
Mullaghmore ...	29.94	63	62	SE	7	c	5			Rocheport ...	30.20	90	74	E	3	b	2
Belmullet ...	29.90	65	61	SE	7	0	*										

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

The reports for yesterday morning showed that pressure varied from between 30.1 ins. to 30.3 ins. over the western, central, and eastern parts of Europe, to 29.9 ins. and less, off the extreme northwestern and northern part of the British Isles, to about 29.7 ins. in a well marked depression lying near Archangel, and to about 30.0 ins. over the southeastern part of the Mediterranean. A second high-pressure area appeared to be in course of formation over Lapland. The wind was S<sup>4</sup> (SSE to SSW) over the British Isles, and blew strongly at the most western stations, E<sup>4</sup> over the Bay of Biscay and south of France, W<sup>3</sup> to SW<sup>3</sup> over Norway, Denmark and the Baltic, and very variable elsewhere — almost dead calm over Eastern and central Europe. The weather was fine and bright over the Mediterranean, the Peninsula, and many parts of Germany, and the eastern half of England, cloudy in most other places, foggy on our southwest coast, hazy in many other places, rainy in Scotland and Archangel. Temperature was changing somewhat irregularly; it was as high as 78° at Bilbao, 77° at Barcelona, 76° at Brindisi, 75° at Trieste, Spire, du Callé, and San Fernando, 74° at Sangüinaria and Oron, 70° at Naples, Seville, and Constantinople; it was lowest over Lapland, Finland, and Russia, the lowest morning readings being 41° at Rode and Haparanda, 42° at Uleaborg, 45° at Moscow, 46° at Kharkov, 49° at Riga and Archangel, 50° at Simsborg and Warsaw, 52° at Munich and Belfast, and 54° at Paris.

Later on temperature rose to between 70° and 78° over Great Britain and to upwards of 90° at several stations in the west of France. Very fine weather prevailed over England, but heavy rain fell in the extreme west and northwest of Ireland and the Hebrides, accompanied by a moderate gale from the southward.

### 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. mist (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 12<sup>TH</sup> SEPTEMBER 1899.

Issued by the Meteorological Office, 63, Victoria Street, London. R. H. SCOTT, Secretary.

STATIONS.	YESTERDAY EVENING.					8 A.M. TO DAY.										PAST 24 HOURS.		
	Barometer at 3 p.m. and Sea Level.	Temp. in Shade.	WIND.		Weather.	BAROMETER.		SHADE TEMP.			WIND.		Weather.	Sea. (0 to 2.)	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 ...	29.96	36	SW	2	0	29.85	-0.16	40	36	0	N	2	C	•	43	32	—
	Hernösand ...	30.08	42	N	2	0	30.02	+0.01	44	36	-1	NW	2	C	•	52	39	—
	Stockholm ...	30.02	41	X	0	0	29.97	+0.02	43	39	-5	NNW	4	C	•	61	39	—
	Wisby ...	30.00	50	WNW	6	0	29.91	-0.02	49	44	-4	E	4	bc	•	64	46	—
	Bodö ...	30.11	44	N	2	C	29.98	-0.16	43	40	-2	W	4	C	•	48	41	0.04
	Christiansund ...	30.04	47	NE	4	0	30.13	+0.05	46	40	-1	ENE	3	C	2	52	41	—
	Skudesnaes ...	29.93	55	WSE	2	0	30.04	0.0	54	51	-3	NW	4	C	3	59	50	0.75
	Christiania Fjord (Færder) ...	29.93	57	W	3	0	30.06	+0.06	50	49	-6	E	3	C	2	59	32	0.51
	Skagen (The Scaw) ...	29.91	54	S	1	0	29.97	-0.04	51	47	-8	E	5	C	4	59	50	0.59
	Fanö ...	29.95	61	WNW	4	0	29.93	-0.20	56	56	-3	NW	4	C	•	63	56	0.08
BRITISH ISLANDS.	Sumburgh Head ...	29.99	53	NE	2	0	30.15	+0.25	51	46	-2	NE	1	C	3	54	46	0.34
	Stornoway ...	29.99	59	SW	2	0	30.18	+0.25	53	53	-5	NE	2	0	2	63	47	—
	Wick ...	30.00	58	NW	1	C	30.23	+0.26	54	52	-6	NW	1	0	1	62	47	0.03
	Nairn ...	29.99	59	X	0	C	30.19	+0.25	56	54	-4	X	0	0	1	65	52	—
	Aberdeen ...	30.00	59	NE	1	0	30.22	+0.26	58	51	-5	NW	2	C	2	69	53	—
	Leith ...	30.01	62	WNW	1	0	30.18	+0.19	57	56	-5	ESE	2	0	0	67	56	0.12
	Shields ...	30.02	64	X	0	0	30.16	+0.13	57	57	-3	N	3	0	2	66	56	0.29
	Spurn Head ...	30.07	69	SWW	2	0	30.13	+0.02	62	61	-1	WNW	3	C	3	74	61	0.02
	York ...	30.08	66	SWW	1	0	30.16	+0.07	64	62	+2	NW	1	0	0	70	61	0.08
	Loughborough ...	30.09	71	WNW	2	0	30.17	+0.04	66	63	+3	W	2	C	•	78	61	—
GERMANY.	Ardrossan ...	29.99	61	S	1	0	30.17	+0.16	61	60	+3	ENE	1	0	1	61	58	0.04
	Malin Head ...	29.99	58	X	0	0	30.15	+0.17	56	58	-2	ESE	2	0	2	59	55	0.03
	Mullaghmore ...	30.00	58	X	0	0	30.13	+0.14	58	56	0	ENE	4	C	3	60	53	0.03
	Belmullet ...	30.02	59	WNW	2	C	30.06	+0.09	63	61	+5	ESE	3	bc	•	64	56	0.01
	Donaghadee ...	29.98	60	SWW	2	0	30.19	+0.17	58	58	-2	WNW	3	0	1	64	57	0.48
	Barrow-in-Furness ...	30.03	64	S	2	0	?	?	60	59	-1	NW	3	0	0	64	59	0.27
	Liverpool (Bidston) ...	30.07	66	SWW	1	0	30.18	+0.09	62	61	-1	W	3	0	2	69	61	0.04
	Holyhead ...	30.05	61	SWW	5	0	30.19	+0.12	60	60	0	SWW	1	0	2	63	58	0.04
	Parsonstown ...	30.11	65	SW	1	0	30.15	+0.14	61	60	+2	X	0	0	0	67	57	—
	Valencia ...	30.06	60	WNW	2	0	30.03	+0.08	68	62	+8	ESE	6	bc	6	68	58	0.09
FRANCE AND NETHERLANDS.	Roche's Point ...	30.08	61	SW	3	0	30.16	+0.13	59	59	-2	ESE	3	0	4	62	58	0.10
	Pembroke (St. Ann's Hd.) ...	30.12	61	S	3	C	30.20	+0.08	60	60	+1	SE	1	0	3	63	58	0.03
	Scilly ...	30.15	63	SWW	4	0	30.15	+0.04	63	62	+2	SE	5	bc	5	67	59	0.01
	Prawle Point ...	30.18	60	WNW	1	0	30.22	+0.05	65	63	+3	NE	1	0	1	68	58	—
	Jersey (St. Aubin's) ...	30.18	72	X	0	0	30.22	+0.02	65	62	-2	X	0	0	0	74	55	—
	Hurst Castle ...	30.18	66	WNW	2	0	30.22	+0.03	64	62	-1	W	1	0	1	72	60	—
	Dungeness ...	30.17	65	SW	1	0	30.15	-0.06	65	63	0	W	1	0	1	72	56	—
	London ...	30.13	71	SWW	2	C	30.18	0.0	65	62	-1	W	2	C	•	81	60	—
	Oxford ...	30.14	68	SW	1	0	30.20	+0.04	65	62	+2	WNW	1	C	•	80	60	—
	Cambridge ...	30.12	68	S	1	0	30.16	-0.01	66	63	0	W	1	C	•	80	59	—
PENINSULA.	Yarmouth ...	30.11	72	SWW	1	0	30.11	-0.06	65	63	+1	WNW	2	bc	2	75	60	—
	Cuxhaven ...	30.11	61	WNW	2	0	29.98	-0.18	62	61	+1	WNW	5	0	0	69	61	0.02
	Berlin ...	30.08	67	S	2	0	29.90	-0.17	62	60	0	W	5	0	0	73	61	0.04
	Wiesbaden ...	30.15	67	X	0	0	30.15	-0.14	57	54	+3	X	0	0	0	73	50	—
	Munich ...	30.20	56	X	0	0	30.25	-0.18	58	57	+4	SW	4	0	0	66	48	—
	The Helder ...	30.10	84	SW	2	C	30.06	-0.13	63	62	+5	NW	1	0	0	68	?	—
	Brussels (9 a.m.) ...	?	•	•	•	•	30.14	-0.12	63	60	+1	WNW	2	C	•	76	61	—
	Cape Gris Nez ...	?	65	WNW	1	0	?	?	62	62	-2	W	2	0	1	71	61	—
	Paris ...	30.19	69	S	1	0	30.21	-0.05	54	58	0	N	1	0	0	81	50	—
	Brest ...	?	66	N	1	0	?	?	62	59	0	E	3	0	5	72	59	—

For Explanation of Columns, see bottom of p 4.

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



# WEATHER CHARTS

for 8 a.m. on

Thursday, 12<sup>th</sup> September,

1889.

## BAROMETER, WIND AND SEA.

### EXPLANATION OF MAP

**BAROMETER**—Isobars are drawn for each tenth of an inch.

Changes since previous morning are stated in words.

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

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

→ = forces 6 to 7; → = forces 1 to 4.

⊙ = dead calm.

**SEA DISTURBANCE**—Where considerable, is shown thus:

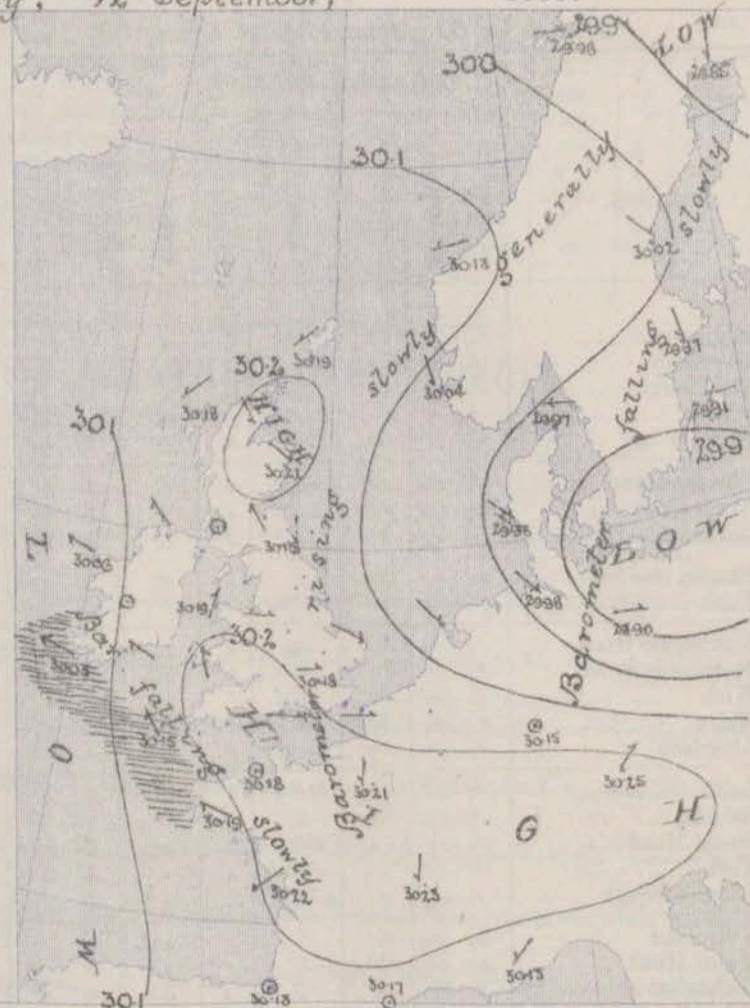
☼ = Rough. ☼ = High.

### MEAN HEIGHT OF THE BAROMETER

at 8.0 a.m. for the month of September.

During the 15 Years: 1871—1885.

STATIONS.	MEAN READINGS.
Sumburgh Head	29.708
Stornoway	29.780
Wick	29.793
Nairn	29.809
Aberdeen	29.819
Leith	29.846
Shields	29.869
York	29.906
Loughborough	29.924
Ardrossan	29.859
Donaghadee	29.869
Holyhead	29.894
Liverpool	29.899
Parsonstown	29.904
Valencia	29.917
Roche's Point	29.915
Pembroke	29.913
Scilly	29.943
Jersey	29.955
Hurst Castle	29.960
Dover	29.941
LONDON	29.945
Oxford	29.935
Cambridge	29.931
Yarmouth	29.916



## 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.

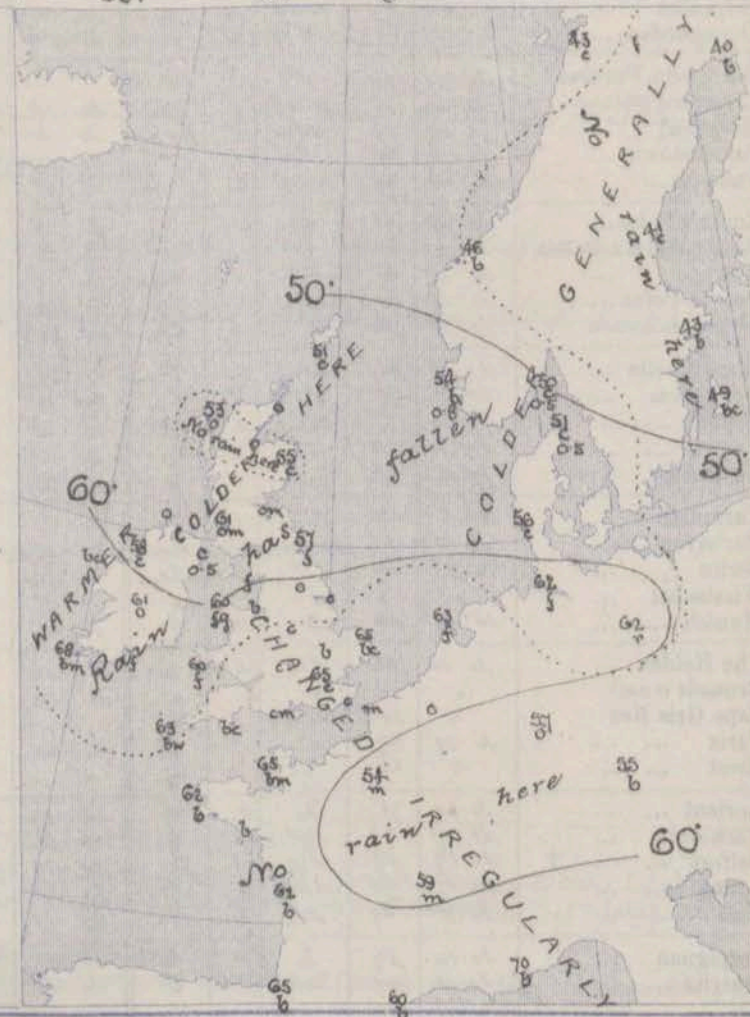
**RAINFALL**—A dotted line separates the districts in which rain has fallen from those where there has been none. Falls of 0.5 in. or more, are quoted in figures.

### 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	46.3	50.9	49.2	3.46
Stornoway .....	55.1	45.7	51.1	49.8	4.13
Wick .....	57.6	45.5	51.8	49.9	2.66
Nairn .....	59.0	46.8	51.2	48.8	2.73
Aberdeen .....	59.2	46.7	52.1	49.8	3.22
Leith.....	62.2	47.6	53.2	50.8	2.47
Shields .....	59.9	49.3	53.1	51.1	2.58
York .....	63.3	47.3	52.8	51.0	2.98
Loughborough .....	65.0	47.9	54.3	52.4	3.06
Ardrossan .....	59.7	49.6	53.6	51.3	3.87
Donaghadee.....	59.6	48.8	53.3	52.1	3.22
Holyhead.....	60.6	52.8	55.7	53.6	3.35
Liverpool .....	61.2	50.9	54.6	51.9	3.56
Parsonstown .....	61.6	47.5	53.1	51.1	3.49
Valencia .....	61.7	51.5	56.3	53.9	4.87
Roche's Point .....	61.9	51.0	55.4	53.2	4.39
Pembroke.....	60.2	53.1	56.2	53.8	3.89
Scilly .....	61.8	54.8	58.4	56.2	3.69
Jersey .....	65.2	54.9	59.8	57.1	3.51
Hurst Castle .....	64.2	52.2	57.2	55.8	3.35
Dover .....	62.9	53.0	57.9	55.3	2.86
LONDON .....	66.3	49.4	55.9	53.6	2.59
Oxford .....	63.8	49.1	54.2	52.3	2.91
Cambridge .....	65.5	48.1	54.4	52.9	2.48
Yarmouth .....	62.0	51.1	55.2	54.4	3.17

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





# GENERAL SITUATION AT 8 A.M.

PRESSURE	Highest, 30.1 in. to about 30.25 in., over South Germany, France, Great Britain, and the east of Ireland. Lowest, 29.9 in. and less, over the <sup>British and</sup> east of Lapland; 30.0 in. and less, over Denmark and apparently off our western coasts also. Gradients slight generally. Barometer falling somewhat at Valencia, Copenhagen, and at the station in the north of Scandinavia.
TEMPERATURE	Highest, 71° at Lilloe, 70° at Kiev, 68° at Valencia, 66° at Loughborough, 65° at Quarrity and in London, 64° at York, 63° at Bally, the Vetter, and Borsch. Lowest, 40° at Haparanda, 43° at Bost and Stockholm, 46° at Christianund, 48° at Nisy, 51° at Loughborough, 54° at Paris, 55° at Alton and Munich. The daily maxima recorded yesterday were 78° at York, 80° at Oxford and Cambridge, 81° in London and at Paris, 84° at Kiev, and 86° at Lilloe.
WIND	Light to moderate from SE. at most of our western stations, — strong at Valencia. Light NW. on our northeast and east coasts — moderate to fresh in Holstein — fresh W. at Berlin. E. in the Skagerrack, N. in Sweden, calm over the Iberian Peninsula and southwest of France.
WEATHER	Fine and bright in the west of Ireland, the Sully Islands and the west and south of France, as well as over the southern parts of Sweden and Norway, and in Denmark. Cloudy or overcast elsewhere, foggy or hazy in many places, mainly at Berlin. Rain has fallen at our western and northern stations and to the eastward of the North Sea.
SEA	Rough at Valencia, at the mouth of the Channel, and at Lilloe, slight or smooth elsewhere.

## PROBABLE CHANGES IN SYSTEM NOW PREVALENT

The fall of the barometer in the west seems to be spreading eastwards, and will probably cause unsettled weather on our western coasts first.

## FORECASTS

For the 24 hours ending at NOON on 13<sup>th</sup> SEPT. 1889.

### DISTRICTS.

### FORECASTS.

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

Varying airs; close, fair generally, hazy at times.

### DISTRICTS.

### FORECASTS

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

SE. breezes, light or moderate, foggy to fair.

SE. winds, moderate and freshening, fair to showery.

### WARNINGS

NONE ISSUED

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



# YESTERDAY'S 2 P.M. REPORTS.

	Bar:	Ther:		Wind		Wea:	Sea		Bar:	Ther:		Wind		Wea:	Sea
		D	W	D	F					D	W	D	F		
Skudesnaes ...	29.98	56	53	ESE	4	7°	3	Holyhead ...	30.08	62	61	SEW	4	om	4
Sumburgh Head ...	29.96	53	53	ENE	3	7°	3	Valencia ...	29.99	62	62	SEW	5	om	5
Stornoway ...	29.97	61	59	SW	2	0	2	Scilly ...	30.14	66	65	S	4	cm	5
Aberdeen ...	29.97	66	61	NNW	1	0	2	Jersey ...	30.19	71	65	SEW	2	cm	2
Shields ...	30.03	65	64	NW	1	0	2	Dungeness ...	30.18	70	64	SW	2	cm	1
Ardrossan ...	30.01	59	58	S	2	om	2	London ...	30.15	79	66	SEW	2	cm	*
Malin Head ...	29.98	59	59	S	1	0	1	Yarmouth ...	30.13	71	66	S	3	cm	2
Mullaghmore ...	29.99	58	58	W	1	om	2	Rocheport ...	30.21	78	70	NW	2	cm	2
Belmullet ...	29.97	64	61	SW	2	0	*								

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

The report for yesterday morning showed that pressure was highest, 30.2 ins. and upwards, in an anticyclone lying over France, Germany, and Austria, and also in another system lying over the south of Russia. The lowest readings, 29.5 ins. and less, were found in a depression lying over the Gulf of Finland, but a large area, with readings below 29.5 ins., was apparently lying to the westward of our Islands. The wind was light or moderate from the S.W. over the greater part of the United Kingdom, and light from the E. in the Shetlands and west of Norway. Over Finland and Sweden, however, fresh or strong N. breezes were reported, and over North Germany and Central Russia light N. breezes, while over Southern Europe the wind was chiefly N.E. The weather was fine in the east and south of England, as well as over the greater part of Central, Southern, and Eastern Europe. Elsewhere the sky was mostly overcast with rain at Valencia, as well as at Riga and Narva. Temperature had risen a few degrees over the greater part of England and Scotland, but fallen in most other districts; reading ranged from a little above 70° at some of the Mediterranean stations to 60° or less over the north of Russia. The highest individual readings were 77° at Sfax, 75° at Brindisi, 74° at Barcelona and San Fernando, 73° at Cagliari and Algiers, and 71° at Lening, Sanguinair and Almoros; the lowest were 35° at Archangel, 37° at Uleaborg, 39° at Kuopio, 40° at Haparanda, 41° at Hangö, 42° at Helsingfors, 44° at Helsinki, 45° at Bodo and 47° at Christiansund.

In the course of the day the barometer fell slightly over Great Britain as well as on the eastern shore of the North Sea, and the appearance of the sky in the southeast of England became somewhat unsettled. Rain fell at several of our western and 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).

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# DAILY WEATHER REPORT.

for *Friday, 13<sup>th</sup> September, 1889.*  
*Issued by the Meteorological Office, 63, 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 3.)	SHADE TEMP.		Amount of Rainfall.		
				Dir.	Force (0 to 12.)		Reading at 32° F. and Sea Level.	Difference from 8 a.m. yesterday.	Dry.	Wet.	Difference from 8 a.m. yesterday.	Dir.	Force. (0 to 12.)		Weather.	Max.		Min.	
SCANDINAVIA.	Haparanda ...	29.74	39	Z	0	0	29.67	- .18	41	41	+ 1	N	2	c	•	48	30	-	
	Hernösand ...	29.91	45	N	4	0	29.82	- .20	45	41	+ 4	N	4	b	•	55	36	-	
	Stockholm ...	30.01	41	NW	2	b	29.87	- .10	43	40	0	NW	2	0	•	50	36	-	
	Wisby ...	30.02	49	N	6	bc	29.90	- .10	50	45	+ 1	N	4	bc	•	50	43	-	
	Bodö ...	29.91	46	NW	2	c	29.86	- .12	43	39	0	NNE	6	c	•	45	41	0.08	
	Christiansund	30.11	48	NW	6	r	30.08	- .05	47	44	+ 1	N	4	r	3	50	43	0.20	
	Skudesnaes ...	20.10	53	NW	2	0	30.06	+ .02	51	46	- 3	NW	4	bc	3	59	50	-	
	Christiania Fjord (Frøder)	30.06	53	NW	3	b	29.97	- .09	48	45	- 2	NNE	5	c	2	54	46	0.04	
	Skagen (The Scaw)	30.05	50	Z	0	c	29.87	- .10	54	51	+ 3	N	1	c	1	61	48	0.16	
	Fanö ...	30.12	54	NW	4	c	30.04	+ .11	55	49	- 1	NW	6	c	•	64	52	-	
BRITISH ISLANDS.	Sumburgh Head	30.25	50	NE	1	c	30.22	+ .03	50	45	- 1	Z	0	0	2	54	43	-	
	Stornoway ...	30.15	57	NE	2	bc	30.11	- .07	59	58	+ 6	SE	1	c	3	59	50	-	
	Wick ...	30.13	52	ENE	2	0	30.22	- .01	52	49	- 2	E	3	0	1	55	48	-	
	Nairn ...	30.19	55	ENE	1	c	30.13	- .06	54	54	- 2	Z	0	1	1	61	48	0.01	
	Aberdeen ...	30.25	55	SE	2	og	30.16	- .06	55	55	0	SE	1	om	2	62	55	-	
	Leith ...	30.21	57	ENE	3	c	30.15	- .03	57	56	0	NW	1	om	•	60	54	-	
	Shields ...	30.23	57	ENE	1	0	30.14	- .02	59	58	+ 2	NW	1	0	2	59	56	-	
	Spurn Head ...	30.24	59	NE	1	0	30.17	+ .04	60	59	- 2	SW	3	om	3	63	57	-	
	York ...	30.25	62	NE	1	0	30.17	+ .01	62	61	- 2	SW	1	bc	•	68	52	-	
	Loughborough	30.22	69	ENE	1	bc	30.20	+ .03	62	62	- 4	N	2	om	•	78	58	-	
GERMANY.	Ardrossan ...	30.18	60	NE	2	bcm	30.17	- .00	59	57	- 2	NW	2	0	1	65	52	-	
	Malin Head ...	30.06	65	SE	4	b	30.22	+ .07	56	54	0	NW	4	op	2	68	55	0.01	
	Mullaghmore ...	30.06	73	SE	5	0	30.29	+ .16	57	54	- 1	NW	5	om	3	76	56	-	
	Belmullet ...	30.06	64	SW	5	0	30.32	+ .26	58	53	- 5	NW	2	0	•	75	57	-	
	Donaghadee ...	30.18	60	SW	3	0	30.23	+ .04	58	57	0	N	3	c	1	64	57	-	
	Barrow-in-Furness	30.18	62	SE	1	c	30.15	?	58	58	- 2	N	2	0	•	65	58	0.01	
	Liverpool (Bidston)	30.20	68	E	2	b	30.22	+ .04	61	59	- 1	N	3	0	2	70	58	-	
	Holyhead ...	30.20	59	Z	0	19	30.24	+ .05	60	59	0	N	2	cq	2	68	57	-	
	Parsonstown ...	30.10	68	SE	1	b	30.31	+ .16	58	55	- 3	Z	0	c	•	75	57	-	
	Valencia ...	30.15	61	SE	4	0	30.34	+ .31	60	57	- 8	NW	1	om	1	70	55	0.01	
FRANCE AND NETHERLANDS.	Roche's Point...	30.17	61	SSW	3	m	30.30	+ .14	60	55	+ 1	N	4	b	4	64	57	-	
	Penabroke (St. Ann's Hd.)	30.21	59	SE	2	b	30.27	+ .07	60	59	0	NW	5	c	3	64	59	0.01	
	Scilly ...	30.18	63	SSW	3	b	30.28	+ .13	60	60	- 3	N	3	2	4	67	58	-	
	Prawle Point...	30.24	67	Z	0	b	30.27	+ .05	65	62	0	NW	2	bm	1	71	58	-	
	Jersey (St. Aubin's)	30.23	73	Z	0	b	30.28	+ .06	69	64	+ 4	Z	0	bmw	0	78	56	-	
	Hurst Castle ...	30.22	69	SW	2	b	30.26	+ .04	64	63	0	Z	0	bf	1	74	55	-	
	Dungeness ...	30.20	69	Z	0	b	30.25	+ .10	64	62	- 1	S	1	m	1	76	60	-	
	London ...	30.23	70	N	2	b	30.24	+ .06	64	62	- 1	SW	1	bc	•	78	55	-	
	Oxford ...	30.25	63	Z	0	b	30.24	+ .04	59	59	- 6	Z	0	cf	•	77	55	-	
	Cambridge ...	30.24	66	N	1	c	30.21	+ .05	63	62	- 3	S	1	0	•	73	51	-	
PENIN- SULA.	Yarmouth ...	30.23	62	NNE	3	bc	30.22	+ .11	59	58	- 6	SW	2	cm	2	68	57	-	
	Cuxhaven ...	30.01	59	NE	2	b	30.13	+ .15	58	54	- 4	NW	4	bc	•	64	58	-	
	Berlin ...	30.08	59	N	4	0	30.11	+ .21	56	52	- 6	NW	2	c	•	66	52	0.04	
	Wiesbaden ...	*	*	*	*	*	30.22	+ .07	60	57	+ 3	NW	2	bc	•	75	57	-	
	Munich ...	30.19	63	N	3	0	30.22	- .03	60	59	+ 5	NW	4	c	•	70	55	-	
	The Helder ...	30.21	62	N	1	bc	30.20	+ .14	60	56	- 3	NW	1	c	1	63	59	0.04	
	Brussels (8 a.m.)	*	*	*	*	*	30.26	+ .12	60	57	- 3	NW	1	0	•	73	59	-	
	Cape Gris Nez	?	63	ENE	1	m	?	?	62	61	0	E	2	t	0	72	61	-	
	Paris ...	30.19	74	NW	2	bc	30.29	+ .08	62	61	+ 8	NNE	2	bm	•	81	?	-	
	Brest ...	?	78	Z	0	b	?	?	62	59	0	E	1	b	3	62	57	-	
PENIN- SULA.	Lorient ...	30.21	72	Z	0	b	30.28	+ .09	63	61	+ 2	E	2	b	5	84	48	-	
	Rochefort ...	30.21	80	ENE	3	b	30.28	+ .06	65	63	+ 3	ENE	2	b	2	95	61	-	
	Belfort ...	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	
	Lyons ...	30.13	72	N	2	b	30.17	- .06	64	59	+ 5	SW	4	b	•	79	?	-	
	Nice ...	30.06	68	SW	2	bc	30.02	- .11	68	57	- 2	ENE	3	b	0	79	63	-	
	Perpignan ...	30.08	69	Z	0	b	30.08	- .09	63	59	+ 3	SW	1	b	•	81	55	-	
	Biarritz ...	30.11	76	SW	1	b	30.16	+ .03	67	62	+ 2	N	3	b	2	79	?	-	
	Corunna ...	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	
	Lisbon ...	30.01	77	NW	4	b	30.06	- .01	68	61	- 3	N	3	b	?	91	66	-	
	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	



# WEATHER CHARTS

for 8 a.m. on

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

1889.

## BAROMETER, WIND AND SEA.

### EXPLANATION OF MAP

**BAROMETER**—Isobars are drawn for each tenth of an inch.

Changes since previous morning are stated in words.

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

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

→ = forces 6 to 7; → = forces 1 to 4.

○ = dead calm.

**SEA DISTURBANCE**—Where considerable, is shown thus:

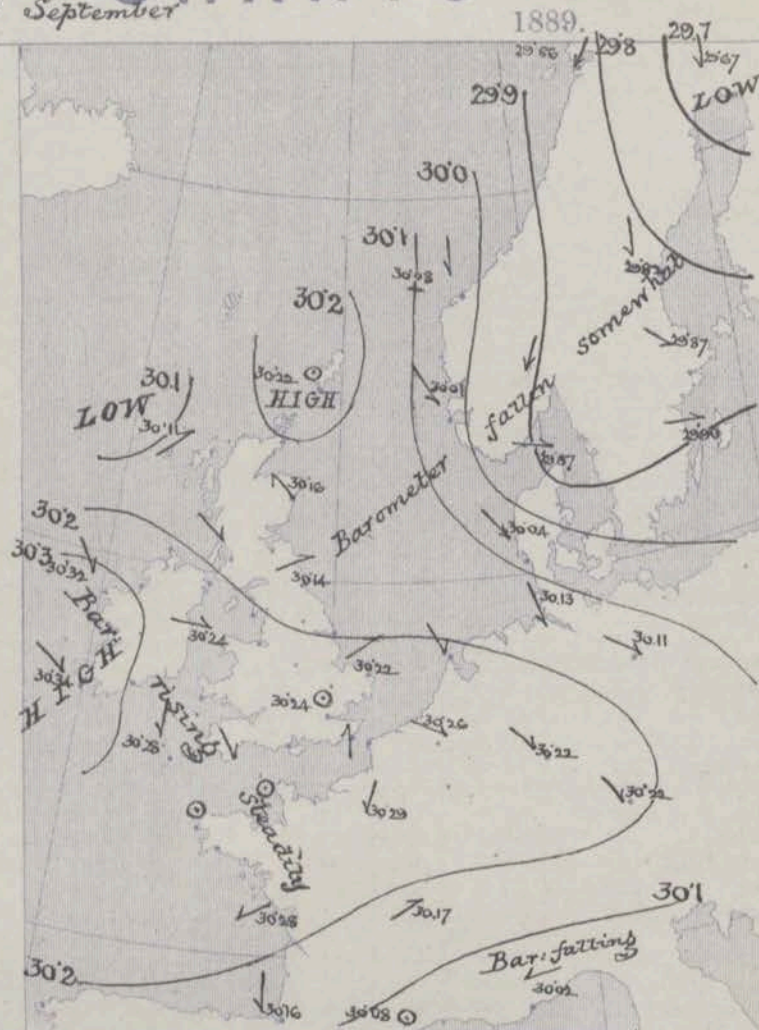
— Rough. — High.

## MEAN HEIGHT OF THE BAROMETER

at 8.0 a.m. for the month of September.

During the 15 Years: 1871—1885.

STATIONS.	MEAN READINGS.
Sumburgh Head .....	29.786
Stornoway .....	29.780
Wick .....	29.793
Nairn .....	29.809
Aberdeen .....	29.819
Leith .....	29.846
Shields .....	29.869
York .....	29.905
Loughborough .....	29.924
Ardrossan .....	29.850
Donaghadee .....	29.869
Holyhead .....	29.894
Liverpool .....	29.899
Parsonstown .....	29.904
Valencia .....	29.917
Roche's Point .....	29.913
Pembroke .....	29.913
Sally .....	29.943
Jersey .....	29.955
Hurst Castle .....	29.960
Dover .....	29.941
LONDON .....	29.946
Oxford .....	29.935
Cambridge .....	29.931
Yarmouth .....	29.916



## 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.

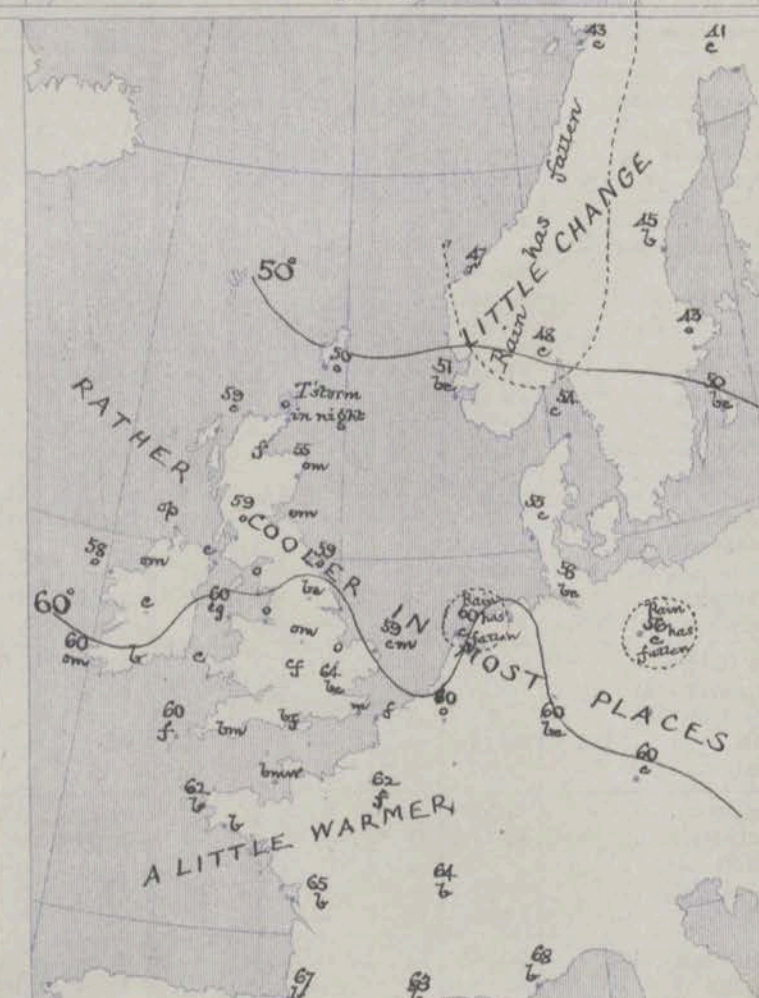
**WEATHER** is shown by Letters of the Beaufort Scale.

**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.	Dry.	Wet.	
Sumburgh Head .....	55.2	46.3	50.9	49.2	3.46
Stornoway .....	59.1	46.7	51.1	49.8	4.13
Wick .....	57.6	46.6	51.8	49.9	2.66
Nairn .....	59.0	46.8	51.2	48.8	2.73
Aberdeen .....	59.2	46.7	52.1	49.8	3.22
Leith .....	62.2	47.6	53.2	50.8	2.47
Shields .....	59.9	49.3	53.1	51.1	2.58
York .....	63.3	47.3	52.8	51.0	2.98
Loughborough .....	65.0	47.9	54.3	52.4	3.06
Ardrossan .....	59.7	49.0	53.5	51.3	3.87
Donaghadee .....	59.0	48.8	53.3	52.1	3.22
Holyhead .....	60.6	52.8	55.7	53.5	3.36
Liverpool .....	61.2	49.9	54.5	51.9	3.56
Parsonstown .....	61.6	47.5	53.1	51.1	3.49
Valencia .....	61.7	51.5	56.3	53.9	4.87
Roche's Point .....	61.9	51.0	55.4	53.2	4.39
Pembroke .....	60.2	53.1	56.2	53.8	3.89
Sally .....	61.8	54.8	58.4	56.2	3.69
Jersey .....	65.2	54.9	59.8	57.1	3.51
Hurst Castle .....	64.2	52.2	57.2	55.8	3.35
Dover .....	62.9	53.0	57.0	55.3	2.86
LONDON .....	66.3	49.4	55.9	53.6	2.59
Oxford .....	63.8	49.1	54.2	52.3	2.91
Cambridge .....	65.5	48.1	54.4	52.9	2.48
Yarmouth .....	62.0	51.1	56.2	54.4	3.17

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





# GENERAL SITUATION AT 8 A.M.

## PRESSURE

Highest, 30.3 ins. and more, over the west of Ireland, and 30.2 ins. and more in the Shetlands and northeast of Scotland; and also over the eastern and southern parts of our island, and the western part of France.  
Lowest, 29.7 ins. and less, over the north of Finland, 29.9 ins. and less, over the south of Sweden, and about 30.0 ins. over the Gulf of Genoa and southeast of Spain.

Gradients moderate over Scandinavia; slight elsewhere.

Barometer rising in the west and southwest, falling a little in the north and east.

## TEMPERATURE

Highest, 68° at Lisbon and Nice, 67° at Rinnitz, 65° at Braintree, 64° in London, 62° at Paris and York.

Lowest, 41° at Haparanda, 43° at Rode and Stockholm, 45° at Helsingfors, 50° at Birmingham, 54° at Aachen, and 56° at Malin Head.

The daily maxima yesterday ranged from 70° to 76° at the English and Irish stations, and were as high as 81° at Paris, 84° at Lyons, 91° at Lisbon, and 95° at Rochefort.

## WIND

N<sup>4</sup> to NW<sup>4</sup>, moderate to strong, on the Eastern shores of the North Sea,

N<sup>4</sup> to NW<sup>4</sup>, moderate over Ireland and the Celtic Islands.

W<sup>4</sup> to SW<sup>4</sup> over the coast of England — SW<sup>4</sup> in the east.

SE<sup>4</sup> to E<sup>4</sup> in the northeast of Scotland — E<sup>4</sup> to NE<sup>4</sup> over the Bay of Biscay.

## WEATHER

Bright over Scandinavia and Southern Europe, fair as a whole elsewhere, but with fog and haze in many places, rain at Christianmünd, showers at Malin Head.

A thunderstorm occurred at Wick during the night.

## SEA

Very little disturbed.

## PROBABLE CHANGES IN SYSTEM NOW PREVALENT

The new high-pressure area in the west appears to be spreading eastwards and northwards over our Islands; but thunder showers are likely to occur at some of our northern and eastern stations before the wind shifts to NW in those localities.

## FORECASTS

14<sup>th</sup> SEPT

For the 24 hours ending at NOON on

1889.

### DISTRICTS.

### FORECASTS.

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

Variable and NW<sup>4</sup> breezes; some local showers, perhaps thunder.

SW<sup>4</sup> to NW<sup>4</sup> breezes; changeable, perhaps some thunder showers, cooler.

### DISTRICTS.

### FORECASTS

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

W<sup>4</sup> and NW<sup>4</sup> breezes; fair as a whole.

NONE ISSUED.

### 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:	Ther:		Wind		Wea:	Sea		Bar:	Ther:		Wind		Wea:	Sea.
		D	W	D	F					D	W	D	F		
Skudesnaes ...									Holyhead ...	30.21	68	65	SW	1	b
Sumburgh Head ...	30.24	53	49	NE	1	c	3		Valencia ...	30.08	63	61	SE	7	om
Stornoway ...	30.20	58	57	NE	2	c	2		Scilly ...	30.18	67	64	SE	5	bm
Aberdeen ...	30.25	57	55	SE	2	c	2		Jersey ...	30.24	76	66	NW	2	b
Shields ...	30.25	57	56	N	2	o	3		Dungeness ...	30.17	70	64	W	2	c
Ardrossan ...	30.18	65	62	NE	2	o	1		London ...	30.21	75	66	WNW	2	b
Malin Head ...	30.10	63	59	SE	4	bc	2		Yarmouth ...	30.18	67	64	N	3	bc
Mullaghmore ...	30.07	71	66	E	5	b	3		Rochefort ...	30.22	93	75	NE	3	b
Belmullet ...	30.01	75	67	S	3	b	3								

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

The reports for yesterday morning showed that pressure was highest 30.2 ins. and upwards, in a large anticyclone lying over the south of England and the greater part of France, as well as in a smaller system lying over the north and northeast of Scotland. The lowest reading 29.6 ins. and less, were found in a large depression lying over the northern part of Russia, but a shallow area of relatively low readings, 30.0 ins. and less, was reported off the coasts of Tunis and Sicily, while another area with similar readings was apparently lying at a considerable distance to the southward of our Islands. Light or moderate breezes from the N<sup>W</sup> or NW<sup>W</sup> were reported over the North Sea, Scandinavia, Denmark and Northern Russia, and light W<sup>W</sup> breezes over Germany, Poland, and Central Russia. In the extreme east and south-east of our Islands, however, the wind was SE<sup>W</sup> and over Southern Europe chiefly NE<sup>W</sup>, while over France and the central parts of Great Britain it was very variable. The weather was fair generally, but dull in the north of our Islands as well as over Germany and Russia, with fog in many places, and rain at Neufahrwasser and Warsaw. Temperature had fallen a little in all the more northern countries, but risen slightly elsewhere; readings ranged from between 70° and 75° at several of the Mediterranean stations, to a little below 40° over Northern Russia. The highest individual readings were 75° at Brindisi, Palermo and San Fernando, 74° at Barcelona and Cagliari, 73° at Sanguinaires, Oran, and Algiers, 71° at Lisbon, and 70° at Trieste, Genoa and Kiev; the lowest were 37° at Archangel and Kuopio, 38° at Uleaborg and Helsingfors, 39° at Hango and St. Petersburg, 40° at Haparanda, 41° at Helsingfors, and 43° at Rodo, Stockholm, and Moscow.

In the course of the day the anticyclonic systems over France and the north of our Islands became united while the depression off our southwest coast moved northwards. Temperature rose to 75° at some of the Irish stations, and to between 76° and 78° over Central England.

### EXPLANATION OF COLUMNS GIVEN ON PAGE 1.

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

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

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

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



# DAILY WEATHER REPORT.

for *Saturday, 14<sup>th</sup> September, 1889.*  
*Issued by the Meteorological Office, 63, Victoria Street, London. R. H. SCOTT, Secretary.*

		YESTERDAY EVENING.					8 A.M. TO DAY.										PAST 24 HOURS.		
STATIONS.		Barometer at 3 p.m. and Sea Level.	Temp. in Shade.	WIND.		Weather.	BAROMETER.		SHADE TEMP.			WIND.		Sea (0 to 12.)	SHADE TEMP.		Amount of Rainfall.		
				Dir.	Force (0 to 12.)		Reading at 3 p.m. and Sea Level.	Difference from 8 a.m. yesterday.	Dry.	Wet.	Difference from 8 a.m. yesterday.	Dir.	Force (0 to 12.)		Weather.	Max.		Min.	
SCANDINAVIA.	Haparanda ...	29.71	46	NE	2	b	29.75	+1.11	32	32	-4	N	2	b	*	48	30		
	Hernösand ...	29.78	42	N	6	b	29.87	+1.05	41	35	-4	N	2	b	*	47	41		
	Stockholm ...	29.76	45	NW	4	c	29.75	-1.12	42	37	-1	NW	6	b	*	42	37		
	Wisby ...	29.79	51	NW	6	c	29.73	-1.17	46	43	-4	NW	8	b	*	51	45		
	Bodö ...	29.94	41	N	2	c	30.05	+1.19	41	37	-2	N	4	b	*	43	37	0.04	
	Christiansund ...	30.15	48	NW	7	c	30.17	+1.09	47	44	0	NW	7	T	4	2	43	0.12	
	Skudesnaes ...	30.12	51	NW	4	b	30.20	+1.14	52	46	+1	NW	4	bc	3	2	48		
	Christiania Fjord (Fierder) ...	29.95	57	NW	3	b	30.02	+1.05	51	45	+3	N	3	b	2	75	48		
	Skagen (The Scaw) ...	29.98	53	NW	3	b	30.01	+1.14	53	47	-1	NE	2	bc	2	57	50	0.08	
	Fanö ...	30.09	46	N	4	b	30.08	+0.04	54	50	-1	NW	6	c	*	59	41		
BRITISH ISLANDS.	Sumburgh Head ...	30.31	49	NNE	1	c	30.40	+1.18	49	45	-1	N	1	c	2	52	46		
	Stornoway ...	30.23	57	E	0	c	30.39	+1.28	55	54	-4	SE	2	c	3	62	51	0.22	
	Wick ...	30.30	52	E	2	c	30.45	+1.23	51	48	-1	W	0	c	1	55	46		
	Nairn ...	30.26	52	W	0	T	30.41	+1.28	51	48	-3	W	0	c	1	57	48	0.02	
	Aberdeen ...	30.30	51	ENE	1	c	30.44	+1.28	51	47	-4	N	1	c	3	56	42	0.06	
	Leith ...	30.24	57	E	2	c	30.39	+1.24	54	51	-3	ESE	3	cm	*	68	52		
	Shields ...	30.21	56	N	1	c	30.39	+1.25	54	50	-5	NE	1	c	3	63	52	0.06	
	Spurn Head ...	30.16	61	N	5	c	30.36	+1.19	56	50	-4	NE	3	c	3	66	54	0.01	
	York ...	30.20	63	NW	1	c	30.39	+1.22	55	52	-7	NE	1	c	*	68	53	0.02	
	Loughborough ...	30.23	60	WNW	3	c	30.37	+1.17	55	54	-7	ENE	2	c	*	69	54	0.01	
GERMANY.	Ardrossan ...	30.24	58	NW	3	c	30.37	+1.20	54	52	-5	NNE	2	cm	1	61	57		
	Malin Head ...	30.32	56	NW	4	c	30.38	+1.16	55	55	-1	NW	3	cd	2	59	53	0.01	
	Mullaghmore ...	30.38	57	NW	4	c	30.44	+1.15	56	53	-1	N	3	c	2	61	54		
	Belmullet ...	30.42	58	N	2	c	30.45	+1.13	54	51	-4	N	2	c	*	61	50		
	Donaghadee ...	30.32	57	NNE	4	bc	30.39	+1.16	56	53	-2	NNE	3	c	1	60	54		
	Barrow-in-Furness ...	30.23	58	NW	3	c	30.33	+1.18	56	55	-2	NE	1	c	*	60	53		
	Liverpool (Bidston) ...	30.28	58	WNW	4	c	30.36	+1.14	57	56	-4	WNW	1	c	2	62	56	0.01	
	Holyhead ...	30.31	58	N	4	c	30.36	+1.12	56	55	-4	N	4	ogm	3	65	56		
	Parsonstown ...	30.37	59	NW	1	bc	30.43	+1.12	55	51	-3	W	0	c	*	63	52		
	Valencia ...	30.39	59	N	2	cg	30.43	+1.09	58	55	-2	ESE	1	bcm	1	65	51		
FRANCE AND NETHERLANDS.	Roche's Point ...	30.35	62	N	3	bc	30.41	+1.11	54	51	-6	N	2	b	3	65	50		
	Pembroke (St. Ann's Hd.) ...	30.31	59	S	3	c	30.37	+1.10	58	56	-2	N	3	c	2	64	56		
	Silly ...	30.30	60	N	4	c	30.33	+1.05	60	57	0	NE	6	c	4	63	56		
	Prawle Point ...	30.27	64	N	2	bc	30.33	+1.06	59	56	-6	NNE	3	bc	1	76	56		
	Jersey (St. Aubin's) ...	30.25	70	NW	1	b	30.31	+1.03	62	59	-7	NE	2	cm	2	76	59		
	Hurst Castle ...	30.22	69	WNW	2	b	30.34	+1.08	59	58	-5	NE	2	b	1	74	54		
	Dungeness ...	30.12	65	WSW	4	bc	30.29	+1.04	61	57	-3	NE	3	c	2	72	57	0.01	
	London ...	30.20	66	NW	3	bc	30.34	+1.10	59	54	-5	NE	2	c	*	80	57		
	Oxford ...	30.26	58	NW	3	b	30.36	+1.12	57	55	-2	NE	1	c	*	74	54		
	Cambridge ...	30.20	63	NW	1	c	30.36	+1.15	57	53	-6	NE	1	c	*	76	54		
PENIN- SULA.	Yarmouth ...	30.13	63	NW	3	cm	30.31	+1.09	57	53	-2	NNE	3	bc	4	70	54		
	Cuxhaven ...	30.06	54	N	5	bc	30.14	+1.01	54	51	-4	W	4	b	*	60	54		
	Berlin ...	29.97	36	NW	4	c	30.08	-0.03	49	46	-7	WNW	3	b	*	61	43	0.01	
	Wiesbaden ...	*	*	*	*	*	?	?	57	53	-3	NE	2	c	*	68	55	0.01	
	Munich ...	*	*	*	*	*	?	?	57	53	-3	NE	2	c	*	68	55	0.01	
	The Helder ...	30.10	59	NE	4	T	30.26	+1.06	57	51	-3	N	2	c	3	63	55	0.04	
	Brussels (9 a.m.) ...	*	*	*	*	*	30.27	+1.01	56	51	-4	NE	3	b	*	67	55	0.04	
	Cape Gris Nez ...	?	63	W	3	c	?	?	60	56	-2	ENE	5	bc	5	70	59		
	Paris ...	30.19	66	SSE	1	bc	30.23	-0.06	59	58	-3	NW	2	c	*	73	56		
	Brest ...	?	67	N	3	b	?	?	58	57	-4	ENE	2	c	2	77	54		
PENIN- SULA.	Lorient ...	30.26	70	WSW	1	b	30.26	-0.02	61	59	-2	NE	3	m	4	81	57		
	Rochefort ...	30.24	76	NW	3	b	30.36	-0.02	63	62	-2	NE	3	b	2	93	57		
	Belfort ...	30.15	64	NW	2	b	30.13	-0.09	60	50	-2	NW	1	bc	*	71	54		
	Lyons ...	30.14	72	N	1	bc	30.18	-0.01	62	59	-2	NNE	1	b	*	79	59		
	Nice ...	30.04	68	SE	2	b	29.99	-0.03	67	63	-1	NW	2	b	4	77	61		
PENIN- SULA.	Perpignan ...	30.02	63	W	3	b	30.38	0.00	75	62	+12	NW	2	b	*	91	61		
	Biarritz ...	30.17	72	W	4	b	30.18	+1.02	67	63	0	W	2	b	2	79	66		
PENIN- SULA.	Corunna ...	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	
	Lisbon ...	30.03	75	WNW	4	b	30.06	0.00	68	63	0	W	0	c	5	86	66		

For Explanation of Columns, see bottom of p. 4.

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



## 1889.

EXPLANATION OF MAP

Changes since previous morning are stated in words.

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.

at 8.0 a.m. for the month of September.

During the 15 Years: 1871—1885.

This is a hand-drawn weather map of the North Atlantic region, showing isobars, wind directions, and handwritten annotations. The map includes labels for 'HIGH', 'Barometer', 'rising', 'Steadily', 'Barometer here', 'Bar. falling', and 'LOW'. Isobars are marked with values like 30.4, 30.3, 30.2, 30.1, 30.0, 29.9, 29.8, and 29.7. Wind directions are indicated by arrows.

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 surrounding regions, showing temperature and precipitation isotherms. The map includes latitude lines at 40°, 50°, and 60° North. Handwritten labels include "GENERALY" (likely generally), "RAIN", "COLDER", "WARMER", "has fallen", and "here". Numerous numerical data points are scattered across the map, often with small letters (e.g., 51<sub>b</sub>, 52<sub>bc</sub>, 53<sub>a</sub>, 54<sub>c</sub>, 55<sub>bc</sub>, 56<sub>bc</sub>, 57<sub>bc</sub>, 58<sub>bc</sub>, 59<sub>b</sub>, 60<sub>bc</sub>, 61<sub>b</sub>, 62<sub>b</sub>, 63<sub>b</sub>, 64<sub>c</sub>, 65<sub>b</sub>, 66<sub>b</sub>, 67<sub>b</sub>, 68<sub>b</sub>, 69<sub>b</sub>, 70<sub>b</sub>, 71<sub>b</sub>, 72<sub>b</sub>, 73<sub>b</sub>, 74<sub>b</sub>, 75<sub>b</sub>, 76<sub>b</sub>, 77<sub>b</sub>, 78<sub>b</sub>, 79<sub>b</sub>, 80<sub>b</sub>, 81<sub>b</sub>, 82<sub>b</sub>, 83<sub>b</sub>, 84<sub>b</sub>, 85<sub>b</sub>, 86<sub>b</sub>, 87<sub>b</sub>, 88<sub>b</sub>, 89<sub>b</sub>, 90<sub>b</sub>, 91<sub>b</sub>, 92<sub>b</sub>, 93<sub>b</sub>, 94<sub>b</sub>, 95<sub>b</sub>, 96<sub>b</sub>, 97<sub>b</sub>, 98<sub>b</sub>, 99<sub>b</sub>, 100<sub>b</sub>). The map also shows various geographical features like the British Isles, Scandinavia, and the Mediterranean Sea.

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



# GENERAL SITUATION AT 8 A.M.

## PRESSURE

Highest, 30.30 ins. to 30.45 ins., over the British Islands, the highest of all being in Ireland and Scotland.  
 Lowest, 30.0 ins. and less, over the Gulf of Genoa, 29.8 ins. and less, over the Thetis and Gulf of Biscaya.  
 Barometer slight over our Islands and France, moderate over Scandinavia and the eastern part of the North Sea.  
 Barometer rising throughout our Islands and Norway, falling a little in the south of Sweden and at Moscow.

## TEMPERATURE

Highest, 75° at Perpignan, 68° at Lisbon, 67° at Nice and Biarritz, 63° at Rochefort, 60° at Brest.  
 Lowest, 32° at Napier, 41° at St. Louis and New York, 42° at Stockholm, 43° at Edinburgh, 44° at Wick, and Aberdeen.  
 Maxima were recorded yesterday as high as 80° in London, 81° at Constantinople, 86° at Lisbon, 91° at Perpignan, and 93° at Rochefort.

## WIND

Calm in Scotland, light to moderate from N. in Ireland.  
 NE over England, the Channel, and coast of France. Variable over Central France.  
 NW over Scandinavia and Denmark. A moderate gale from NW is reported at Christianund, and a fresh gale at Ulsby.

## WEATHER

Fine and bright over Southern Europe, at some of the Scandinavian stations, and in the south of Scotland.  
 Cloudy or overcast over the British Islands as a whole, slight rain at Malin Head and also at Christianund.  
 Some rain has fallen at our northern stations, and on the eastern shores of the North Sea.

## SEA

Moderate at Brest, Yarmouth, and in the Strait of Dover, slight or smooth elsewhere.

## PROBABLE CHANGES IN SYSTEM NOW PREVALENT

A continuation of dry weather, but with lower temperatures than of late, seems likely to prevail over the British Isles and France.

## FORECASTS

For the 24 hours ending at NOON on 15<sup>TH</sup> SEP<sup>R</sup> 1889.

### DISTRICTS.

### FORECASTS.

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

Varying light breezes; cloudy, some rain.

NE<sup>W</sup> winds, moderate, fair, dry.

### DISTRICTS.

### FORECASTS

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

NE<sup>W</sup> breezes, moderate, dull to fair.

Same as Nos 3 to 5.

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

### WARNINGS

NONE ISSUED.

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



# YESTERDAY'S 2 P.M. REPORTS.

	Bar.	Ther.		Wind		Wea.	Sea		Bar.	Ther.		Wind		Wea.	Sea
		D	W	D	F					D	W	D	F		
Skudesnaes ...	30.09	56	48	nmw	6	6	3		Holyhead ...	30.29	61	58	nmw	4	3
Samburgh Head ...	30.18	51	45	ne	1	0	2		Valencia ...	30.39	63	58	nmw	2	2
Stornoway ...	30.20	59	59	sw	1	7	2		Scilly ...	30.30	62	61	nmw	3	4
Aberdeen ...	30.25	52	51	e	2	0	3		Jersey ...	30.27	75	64	nmw	1	1
Shields ...	30.17	54	57	n	3	0	2		Dungeness ...	30.15	69	65	nmw	4	3
Ardrossan ...	30.23	60	57	nmw	3	0	2		London ...	30.17	79	66	nmw	2	2
Malin Head ...	30.29	57	53	nmw	4	0	3		Yarmouth ...	30.13	70	55	nmw	3	2
Mullaghmore ...	30.36	60	56	nmw	5	0	3		Rocheport ...	30.26	90	75	nmw	2	2
Belmullet ...	30.39	60	55	nmw	2	0	4								

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

The reports for yesterday morning showed that pressure was highest 30.20 in. to 30.35 in. in a large anticyclone covering Ireland, the southern parts of England, the Bay of Biscay and the greater part of France, as well as in a smaller system lying over the extreme north of Scotland. The lowest readings 29.4 in. and less were reported over the north of Russia, but a shallow depression, with readings below 29.9 in. was lying over the south of Sweden. The wind was NW or N over the greater part of northern, eastern, and central Europe, and fresh or strong in force on the eastern shores of the North Sea. Moderate breezes from similar directions were also reported on the west coasts of our islands, but in France and Spain the wind was light from the N<sup>W</sup> or NE<sup>W</sup>, while in the east of England it was chiefly SW<sup>W</sup>. The weather was fair on the whole, but overcast in Russia and the north of our islands, foggy or misty in many parts of Great Britain and near at Christiansund. Temperature had fallen a little in most places, and readings ranged from 40° and upwards at some of the Spanish and Mediterranean stations to 40° or less over Central and Northern Russia. The highest individual readings were 76° at Cagliari, 75° at Brindisi, 74° at San Fernando and Algiers, 71° at Bilbao, 70° at Sanguinaria, 69° at Oran, and 68° at Kise Levia, Palermo, Lisbon and Laforde; the lowest were 37° at Archangel and Moscow, 36° at Kiepsie and St Petersburg, 35° at Helsingfors, 40° at Uleaborg, 41° at Haparanda, Riga and Kiev, 43° at Rostock and Stockholm, and 44° at Helsingfors.

In the course of the day the barometer fell a little over France and the southeast of England, while it rose on our western coasts. N<sup>W</sup> breezes set in over nearly the whole of the United Kingdom, and slight shower falls at several of our northern and eastern 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 Sunday 15<sup>th</sup> SEPT 1889.  
Issued by the Meteorological Office, 63, Victoria Street, London. R. H. SCOTT, Secretary.

Issued by the Meteorological Office, 55, Victoria Street, London. H. 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.			BAROMETER.		SHADE TEMP.			WIND.			Sea. (0 to 8.)	SHADE TEMP.			
			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.	Amount of Rainfall.	
SCANDINAVIA.	Haparanda ...	29.91	39	N	4	bc	29.96	+ .18	42	41	+ 10	N	4	0	*	45	28	—
	Hernösand ...	30.07	39	N	4	b	30.13	+ .26	40	36	— 1	N	6	c	*	48	34	—
	Stockholm ...	29.91	36	N	6	b	30.05	+ .30	41	39	— 1	NNW	4	r	*	48	36	0.04
	Wisby ...	29.83	41	N	8	c	29.93	+ .20	44	41	— 2	N	6	b	*	48	39	0.12
	Bodö ...	30.25	43	N	2	b	30.32	+ .27	44	42	+ 3	Z	0	c	0	?	?	—
	Christiansund	30.32	44	ENE	2	b	30.42	+ .25	44	41	— 3	ESE	2	b	3	48	39	0.08
	Skudesnaes ...	30.21	50	NNW	7	b	30.38	+ .18	51	43	— 1	E	4	bc	3	55	45	—
	Christiania Fjord (Færdor)	30.09	48	NNE	8	b	30.31	+ .29	45	40	— 6	NNW	6	b	2	54	45	—
	Skagen (The Scaw)	30.03	48	NE	5	b	30.27	+ .26	47	41	— 6	NE	4	b	4	59	43	0.08
	Fanö ...	30.05	46	NW	2	b	30.28	+ .40	42	29	— 12	N	4	b	*	61	37	—
BRITISH ISLANDS.	Sumburgh Head	30.43	48	N	2	o	30.46	+ .06	48	45	— 1	Z	0	o	1	52	45	—
	Stornoway ...	30.43	52	NE	3	b	30.43	+ .04	53	52	— 2	SE	2	bc	3	55	40	—
	Wick ...	30.45	49	E	2	c	30.50	+ .05	53	50	+ 2	E	1	o	1	53	45	—
	Nairn ...	30.44	50	Z	0	bc	30.46	+ .05	45	43	— 6	Z	0	c	0	58	39	—
	Aberdeen ...	30.45	50	N	2	c	30.49	+ .05	50	46	— 1	NNW	1	o	2	55	48	—
	Leith ...	30.43	54	E	2	c	30.48	+ .09	52	48	— 2	NE	2	o	*	56	48	—
	Shields ...	30.40	54	N	2	c	30.44	+ .05	50	48	— 4	NNW	2	o	3	57	49	—
	Spurn Head ...	30.36	56	NNE	4	c	30.41	+ .05	54	50	— 2	NE	5	o	4	60	51	—
	York ...	30.41	55	NNE	2	o	30.46	+ .07	52	46	— 3	NNW	1	o	*	60	46	—
	Loughborough	30.38	57	NNW	1	o	30.44	+ .07	57	49	— 4	NNW	2	cmh	*	60	45	—
GERMANY.	Ardrossan ...	30.40	57	NNE	1	ow	30.47	+ .10	51	49	— 3	NE	1	ow	1	61	49	—
	Malin Head ...	30.40	56	NNE	1	o	30.42	+ .04	55	54	0	S	1	o	0	58	53	0.02
	Mullaghmore ...	30.42	58	NW	2	o	30.42	— .02	56	54	0	SE	3	ow	2	63	54	—
	Belmullet ...	30.44	56	E	1	o	30.40	— .05	57	55	+ 3	SE	1	b	*	60	52	—
	Donaghadee ...	30.41	59	ENE	2	c	30.47	+ .08	54	51	— 2	ENE	3	o	1	60	54	—
	Barrow-in-Furness	30.39	55	NE	2	o	30.47	+ .14	50	48	— 6	NE	1	bc	*	56	47	0.05
	Liverpool (Bidston)	30.39	56	ESE	2	o	30.47	+ .11	52	47	— 5	E	1	o	1	57	50	0.01
	Holyhead ...	30.37	58	NE	3	c	30.43	+ .07	53	49	— 3	E	4	cm	4	59	52	—
	Parsonstown ...	30.41	59	NW	1	c	30.39	— .04	55	54	0	Z	0	bc	*	62	51	—
	Valencia ...	30.38	59	WSW	1	cm	30.37	— .06	55	54	— 3	Z	0	bc	1	63	50	—
FRANCE AND NETHERLANDS.	Roche's Point...	30.39	58	ESE	1	b	30.39	— .02	57	55	+ 3	E	2	m	3	61	50	—
	Pembroke (St. Ann's Hd.)	30.35	59	N	3	b	30.40	+ .03	56	55	— 2	E	2	cg	2	63	53	—
	Scilly ...	30.37	60	NNE	5	o	30.35	+ .02	61	60	+ 1	E	3	cm	3	62	57	—
	Prawle Point ...	30.33	58	ENE	2	c	30.40	+ .07	58	54	— 1	ENE	3	cg	2	75	54	—
	Jersey (St. Aubin's)	30.31	64	ENE	3	b	30.38	+ .07	59	54	— 3	ENE	4	o	3	68	56	—
	Hurst Castle ...	30.33	64	NE	2	ow	30.41	+ .07	55	54	— 4	NE	4	c	1	69	52	—
	Dungeness ...	30.31	60	NE	3	bc	30.33	+ .04	55	51	— 6	NNE	4	c	2	70	47	—
	London ...	30.34	59	N	2	bm	30.39	+ .05	54	50	— 5	NE	3	c	*	67	52	—
	Oxford ...	30.38	56	NE	1	o	30.43	+ .07	57	49	— 6	NE	2	o	*	62	49	—
	Cambridge ...	30.37	60	N	1	o	30.39	+ .03	53	51	— 4	N	1	o	*	65	47	—
PENINSULA.	Yarmouth ...	30.34	57	N	3	bc	30.34	+ .03	57	52	0	N	5	bc	4	60	51	—
	Cuxhaven ...	30.10	52	NW	6	b	30.18	+ .04	48	44	— 6	NNE	6	b	*	58	49	—
	Berlin ...	30.01	53	NW	3	o	30.02	— .06	46	41	— 3	NW	5	c	*	61	45	—
	Wiesbaden ...	*	*	*	*	*	30.15	?	54	50	— 3	NNW	4	bc	*	63	52	—
	Munich ...	30.19	50	N	2	b	30.13	— .06	46	44	—	NW	4	o	*	57	43	0.39
	The Helder ...	30.25	57	N	3	c	30.26	— .00	55	50	— 2	ENE	4	bc	4	59	54	—
	Brussels (9 a.m.)	?	58	*	*	*	30.26	— .01	53	52	— 3	NW	2	o	*	62	51	—
	Cape Gris Nez	?	58	ENE	4	bc	?	?	52	52	— 6	NE	5	o	5	66	52	—
	Paris ...	30.25	59	NE	2	b	30.28	+ .05	57	48	— 8	N	2	o	*	66	46	—
	Brest ...	?	65	ENE	4	c	?	?	56	53	— 2	ENE	3	b	5	72	52	—
PENINSULA.	Lorient ...	30.25	67	WNW	1	b	30.32	+ .06	55	52	— 6	ENE	4	b	3	75	54	—
	Rochefort ...	30.23	73	NE	4	b	30.28	+ .02	55	52	— 8	ENE	5	b	2	84	50	—
	Belfort ...	30.11	63	SE	2	o	30.13	— .00	59	52	— 1	SE	1	o	*	68	51	—
	Lyons ...	30.11	66	N	3	c	30.12	— .06	54	50	— 8	N	2	b	*	79	53	—
	Nice ...	29.90	68	SSE	5	c	29.83	— .16	69	65	+ 2	NE	2	c	3	77	64	—
	Perpignan ...	29.99	84	NW	3	b	29.99	— .09	70	61	— 5	NW	4	b	*	92	69	—
	Biarritz ...	30.15	71	WNW	3	b	30.15	— .03	64	61	— 3	ESE	3	m	1	87	63	—
	Corunna ...	30.02	77	WNW	4	b	30.08	— .05	71	61	—	E	1	b	3	91	61	—
	Lisbon ...	30.02	77	WNW	4	b	30.01	— .05	69	62	+ 1	SW	3	bc	2	82	68	—

For Explanation of Columns, see bottom of p. 1.

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



# WEATHER CHARTS

for 8 a.m. on

Sunday, 15<sup>th</sup> September,

1889.

## BAROMETER, WIND AND SEA.

### EXPLANATION OF MAP

**BAROMETER**—Isobars are drawn for each tenth of an inch.

Changes since previous morning are stated in words.

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

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

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⊙ = dead calm.

**SEA DISTURBANCE**—Where considerable, is shown thus:

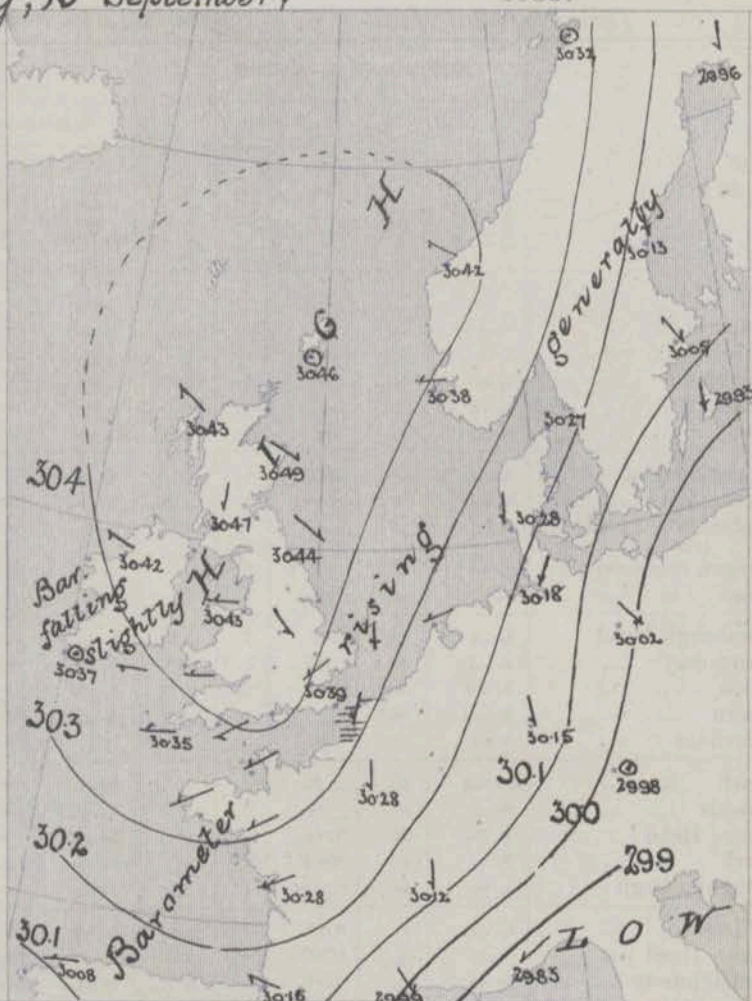
⊞ = Rough. ⊞ = High.

### MEAN HEIGHT OF THE BAROMETER

at 8.0 a.m. for the month of September.

During the 15 Years: 1871—1885.

STATIONS.	MEAN READINGS.
Sumburgh Head .....	29.766
Stornoway .....	29.740
Wick .....	29.793
Nairn .....	29.809
Aberdeen .....	29.819
Leith .....	29.846
Shields .....	29.869
York .....	29.905
Loughborough .....	29.924
Ardrossan .....	29.850
Donaghadee .....	29.869
Holyhead .....	29.894
Liverpool .....	29.899
Parsonstown .....	29.904
Valencia .....	29.917
Roche's Point .....	29.915
Pembroke .....	29.913
Sally .....	29.943
Jersey .....	29.955
Hurst Castle .....	29.960
Dover .....	29.941
LONDON .....	29.945
Oxford .....	29.935
Cambridge .....	29.931
Yarmouth .....	29.916



## 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.

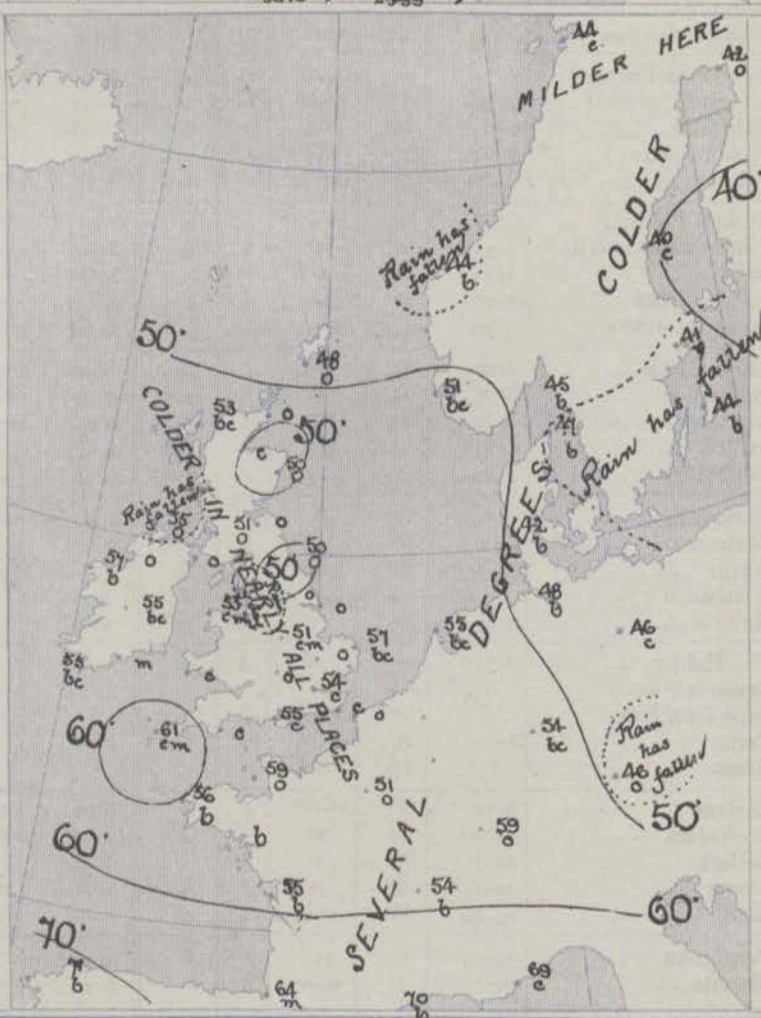
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### MEANS OF TEMPERATURE IN SHADE, AND RAINFALL.

(For the month of September.)

STATIONS.	TEMPERATURE.				RAINFALL (Inches.)
	Daily Max.	Daily Min.	at 8 a.m.		
			Dry.	Wet.	
Sumburgh Head.....	55.2	46.3	50.9	49.2	3.46
Stornoway .....	56.1	45.7	51.1	49.8	4.13
Wick .....	57.6	45.5	51.8	49.9	2.66
Nairn .....	59.0	46.8	51.2	48.8	2.73
Aberdeen .....	59.2	46.7	52.1	49.8	3.22
Leith .....	62.2	47.6	53.2	50.8	2.47
Shields .....	59.9	49.3	53.1	51.1	2.58
York .....	63.3	47.3	52.8	51.0	2.98
Loughborough .....	65.0	47.9	54.3	52.4	3.06
Ardrossan .....	59.7	49.6	53.5	51.3	3.87
Donaghadee .....	59.6	48.8	53.3	52.1	3.22
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Parsonstown .....	61.6	47.5	53.1	51.1	3.49
Valencia .....	61.7	51.5	56.3	53.9	4.87
Roche's Point .....	61.9	51.0	55.4	53.2	4.39
Pembroke .....	60.2	53.1	56.2	53.8	3.89
Selly .....	61.8	54.8	58.4	56.2	3.69
Jersey .....	65.2	54.9	59.8	57.1	3.61
Hurst Castle .....	64.2	52.2	57.2	55.8	3.35
Dover .....	62.9	53.0	57.9	55.3	2.86
LONDON .....	66.3	49.4	55.9	53.6	2.69
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Cambridge .....	65.5	48.1	54.4	52.0	2.48
Yarmouth .....	62.0	51.1	56.2	54.4	3.17

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





# GENERAL SITUATION AT 8 A.M.

## PRESSURE

Highest, 30.4 in. to 30.5 in. in an anticyclone covering the British Islands generally.  
 Lowest, About 29.9 in. over the Baltic and Baltic Provinces of Russia, and about 30.3 in. off our own southern coast.  
 Gradient, almost nil in our Islands, moderate over Scandinavia, Denmark, Germany, and the east of France.  
 Barometer falling slightly and irregularly in Ireland rising elsewhere, most over Scandinavia.

## TEMPERATURE

Highest, 71° at Comman, 70° at Bagnan, 69° at Ales, 68° at Biarritz, 61° at Seilly, 57° at Brest.  
 Lowest, 40° at Helsingfors, 41° at Stockholm, 42° at Haparanda and Luleå, 44° at Åbo and Christiana, 46° at Berlin, 48° at Copenhagen and Edinburgh, 50° at Aberdeen.  
 It was falling very generally over the whole of Northwestern Europe, but the change has not affected Ales at present.

## WIND

Light from SE. on our extreme northern coast and from E. in the west, moderate from ENE and NE. over the Bay of Biscay, the Channel, and on our northeast coast, fresh to strong from the N. on the eastern shores of the North Sea and in Sweden.  
 Calm and variable airs prevail in Scotland.

## WEATHER

Fine and bright in Spain, the west and south of France, the Netherlands, Denmark, Norway, and the west of Ireland; fair over our Islands generally but dull in many places. Air very dry over England, heavy dew in southwest of Ireland.

## SEA

Moderate at Holyhead, Yarmouth, and on the eastern shores of the North Sea.

## PROBABLE CHANGES IN SYSTEM NOW PREVALENT

# FORECASTS

For the 24 hours ending at NOON on 16<sup>TH</sup> SEPT<sup>R</sup> 1889.

## DISTRICTS.

## FORECASTS.

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

NONE ISSUED

## DISTRICTS.

## FORECASTS

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

NONE ISSUED.

## WARNINGS

NONE ISSUED.

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



# YESTERDAY'S 2 P.M. REPORTS.

	Bar:	Ther:		Wind		Wea:	Sea		Bar:	Ther:		Wind		Wea:	Sea.
		D	W	D	F					D	W	D	F		
Skudesnaes ...	30.19	55	48	NY	8	bc	4	Holyhead ...	30.37	59	58	N	3	c	3
Samburgh Head ...	30.41	51	49	N	2	o	8	Valencia ...	30.42	63	58	SW	2	bc	2
Stornoway ...	30.43	55	54	NE	3	b	3	Scilly ...	30.34	60	54	NNE	5	c	4
Aberdeen ...	30.45	58	48	NNE	1	c	3	Jersey ...	30.31	68	63	ENE	3	c	0
Shields ...	30.44	55	51	N	2	c	3	Dungeness ...	30.32	65	56	NE	4	bc	3
Ardrossan ...	30.39	59	50	NY	1	o	1	London ...	30.35	62	54	L	0	b	2
Malin Head ...	30.40	58	57	NNE	1	o	1	Yarmouth ...	30.33	66	58	N	3	bc	4
Mullaghmore ...	30.44	59	56	WNW	2	o	2	Rocheport ...	30.25	81	72	NW	3	b	2
Belmullet ...	30.47	58	54	NNE	2	o	*								

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

The reports for yesterday morning showed that pressure was highest (30.30 in. to 30.45 in.) over the British Isles, lowest (29.5 in.) in a depression lying over the Baltic provinces of Russia, and rather low (30.0 in. and less) in a shallow disturbance of irregular form lying over the northern parts of the Mediterranean and Adriatic. N<sup>1</sup> and NE<sup>4</sup> winds of little strength had become prevalent over the United Kingdom Channel and north of France, strong NW<sup>2</sup> winds over Scandinavia and the Baltic, moderate NW<sup>1</sup> over Germany and Poland (The Austro-Hungarian Reports have not arrived). In Spain, however, the wind was SE<sup>1</sup>. Temperature was falling very generally and decidedly over the United Kingdom and NW Europe, and the air was becoming dry. The weather at 8 am. was fine and bright over Spain, the greater part of France and in Sweden, cloudy over the United Kingdom and North Sea, with rain at Malin Head and Christiansund. Temperature was falling throughout our Islands and NW Europe. Frost prevailed over Finland and at the northern extremity of the Gulf of Bothnia, most of the Russian temperatures were below 40° those over Germany were below 50°, and those over the United Kingdom were below 60°. The highest morning values were 76° at Constantinople, 75° at Perpignan and Malta, 74° at Brindisi, 72° at Cagliari, 71° at Algiers, and 70° at San Fernando and Tif (Tunis); the lowest were 32° at Haparanda and Uleaborg, 33° at Kuopio, 35° at Moscow, 36° at Archangel, 37° at Kharkov, 40° at Riga and Kiev, 41° at Rost and Helsingfors, 45° at Narva, 48° at Stockholm, Breslau, Berlin, and Samburgh Hd.

Later in the day the cold NE<sup>1</sup> and N<sup>1</sup> wind became still more general, the anticyclone in our Islands grew larger, and new disturbances appeared over Eastern and Southern Europe.

### 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, 16<sup>th</sup> September, 1889.

Issued by the Meteorological Office, 63, Victoria Street, London. R. H. SCOTT, Secretary.

STATIONS.		YESTERDAY EVENING.					8 A.M. TO DAY.										PAST 24 HOURS.		
		Barometer at 32° F. and Sea Level.	Temp. in Shade.	WIND.		Weather.	BAROMETER.		SHADE TEMP.			WIND.		Weather.	Sea. (0 to 2.)	SHADE TEMP.		Amount of 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 ...	30.01	41	NE	2	b	30.02	+0.06	42	39	0	NW	4	0	*	52	28		
	Hernösand ...	30.20	45	SE	0	b	30.19	+0.06	45	40	+5	NW	6	0	*	55	37		
	Stockholm ...	30.13	44	NW	4	0	30.21	+0.16	42	39	+1	NW	4	0	*	48	34		
	Wisby ...	30.15	42	N	8	0	30.14	+0.21	45	43	+1	N	4	0	*	48	34	0.08	
	Bodö ...	30.28	44	WSW	2	0	30.18	-0.14	44	42	0	ESE	2	0	1	46	41		
	Christiansund ...	30.41	45	NW	3	b	30.38	-0.07	47	45	+3	SE	1	0	2	50	43		
	Skudesnaes ...	30.38	48	SW	2	b	30.39	+0.01	51	47	0	SE	0	bc	2	59	43		
	Christiania Fjord (Fæder)	30.30	53	NNE	6	b	30.35	+0.04	47	42	+2	NW	2	b	2	57	41		
	Skagen (The Scaw)	30.27	50	N	3	b	30.34	+0.07	50	44	+3	NE	1	b	1	54	46		
	Fanö ...	30.37	42	N	1	b	30.37	+0.09	50	46	+8	SE	0	b	*	55	39		
BRITISH ISLANDS.	Sumburgh Head	30.43	69	SE	0	0	30.33	-0.13	51	45	+3	S	1	0	1	51	44		
	Stornoway ...	30.39	56	SW	2	bc	30.24	-0.19	54	53	+1	S	4	0	4	57	51	0.01	
	Wick ...	30.47	52	SE	2	b	30.32	-0.18	53	50	0	NW	2	b	1	58	38		
	Nairn ...	30.41	51	SE	0	b	30.32	-0.14	50	48	+3	WSW	1	b	0	59	39		
	Aberdeen ...	30.45	51	SSE	1	b	30.38	-0.11	51	48	+1	SSW	1	cm	2	55	41		
	Leith ...	30.45	53	E	2	c	30.39	-0.09	49	46	-3	SE	0	c	*	57	39		
	Shields ...	30.44	54	NE	1	0	30.42	-0.02	52	48	+2	SW	1	cm	2	58	48		
	Spurn Head ...	30.42	55	NNE	4	c	30.43	+0.02	58	50	-1	SSE	2	0	3	60	51		
	York ...	30.47	55	NE	1	0	30.46	-0.00	52	49	0	E	1	bc	*	58	41		
	Loughborough	30.44	54	NW	2	c	30.45	+0.01	52	50	+1	ENE	1	cmw	*	60	49		
GERMANY.	Ardrossan ...	30.43	57	SE	0	bc	30.36	-0.11	50	47	-1	ENE	2	om	1	60	43		
	Malin Head ...	30.38	56	SSE	3	om	30.27	-0.13	55	53	0	S	4	om	1	59	53		
	Mullaghmore ...	30.36	61	SE	4	0	30.29	-0.13	58	55	+2	S	4	om	2	66	53		
	Belmullet ...	30.35	61	W	1	0	30.23	-0.17	60	57	+3	SW	6	0	*	65	56		
	Donaghadee ...	30.46	53	SE	2	bc	30.37	-0.10	54	53	0	SE	3	c	1	56	53		
	Barrow-in-Furness	30.43	56	ENE	2	bc	30.40	-0.07	50	48	0	NE	2	c	*	58	47		
	Liverpool (Bidston)	30.44	58	SE	1	0	30.44	-0.03	52	49	0	SE	2	bm	2	58	47		
	Holyhead ...	30.42	56	ENE	3	b	30.40	-0.03	53	50	0	SE	1	bm	1	59	46		
	Parsonstown ...	30.38	61	SE	1	c	30.34	-0.05	57	54	+2	SE	1	c	*	64	54		
	Valencia ...	30.34	62	SSE	5	bcm	30.31	-0.06	59	56	+4	SSE	5	om	5	65	52		
FRANCE AND NETHERLANDS.	Roche's Point...	30.38	60	ENE	2	m	30.36	-0.03	59	55	+2	E	4	0	4	64	56		
	Pembroke (St. Ann's Hd.)	30.41	57	S	2	c	30.40	-0.00	52	51	-1	E	3	c	2	60	49		
	Scilly ...	30.36	60	SE	4	b	30.34	-0.01	60	56	-1	ENE	4	c	4	64	55		
	Prawle Point ...	30.40	54	ENE	3	bc	30.39	-0.01	55	52	-3	NNE	3	bc	3	62	48		
	Jersey (St. Aubin's)	30.35	59	NE	3	b	30.40	+0.02	58	52	-1	ENE	4	bm	3	62	52		
	Hurst Castle ...	30.39	59	NE	4	bc	30.42	+0.01	56	55	+1	E	3	bc	1	64	48		
	Dungeness ...	30.34	58	NE	4	c	30.42	+0.09	56	47	+1	SE	3	b	2	65	51		
	London ...	30.39	58	N	3	c	30.43	+0.04	55	50	+1	NE	2	b	*	60	49		
	Oxford ...	30.44	49	NE	1	b	30.45	+0.02	49	48	-2	NE	1	0	*	60	43		
	Cambridge ...	30.42	56	N	1	bc	30.45	+0.06	53	50	0	N	1	0	*	61	46		
PENINSULA.	Yarmouth ...	30.38	56	ENE	3	bcv	30.43	+0.09	54	49	-3	SE	0	b	3	59	48	0.01	
	Cuxhaven ...	30.35	52	NNE	4	b	30.38	+0.20	53	49	+5	N	3	b	*	55	37		
	Berlin ...	30.25	45	NW	3	b	30.31	+0.29	44	41	-2	NW	3	0	*	54	37	0.04	
	Wiesbaden ...	*	*	*	*	*	30.39	+0.22	44	41	-10	NE	1	b	*	59	36		
	Munich ...	30.26	42	W	2	0	30.33	+0.20	37	34	-9	NE	3	b	*	54	32	0.16	
	The Helder ...	30.41	51	NE	2	b	30.44	+0.18	51	46	-4	NE	1	b	1	55	45		
	Brussels (9 a.m.)	*	*	*	*	*	30.45	+0.19	42	40	-11	NE	3	b	*	61	38		
	Cape Gris Nez	?	55	ENE	5	c	?	?	45	40	-9	ENE	2	b	2	63	41		
	Paris ...	30.28	57	ENE	2	bc	30.34	+0.09	41	38	-10	NE	3	b	*	57	38		
	Brest ...	?	58	ENE	2	0	?	?	53	50	-3	E	2	b	2	68	39		



# WEATHER CHARTS

for 8 a.m. on

Monday, 16<sup>th</sup> September

1889.

## BAROMETER, WIND AND SEA.

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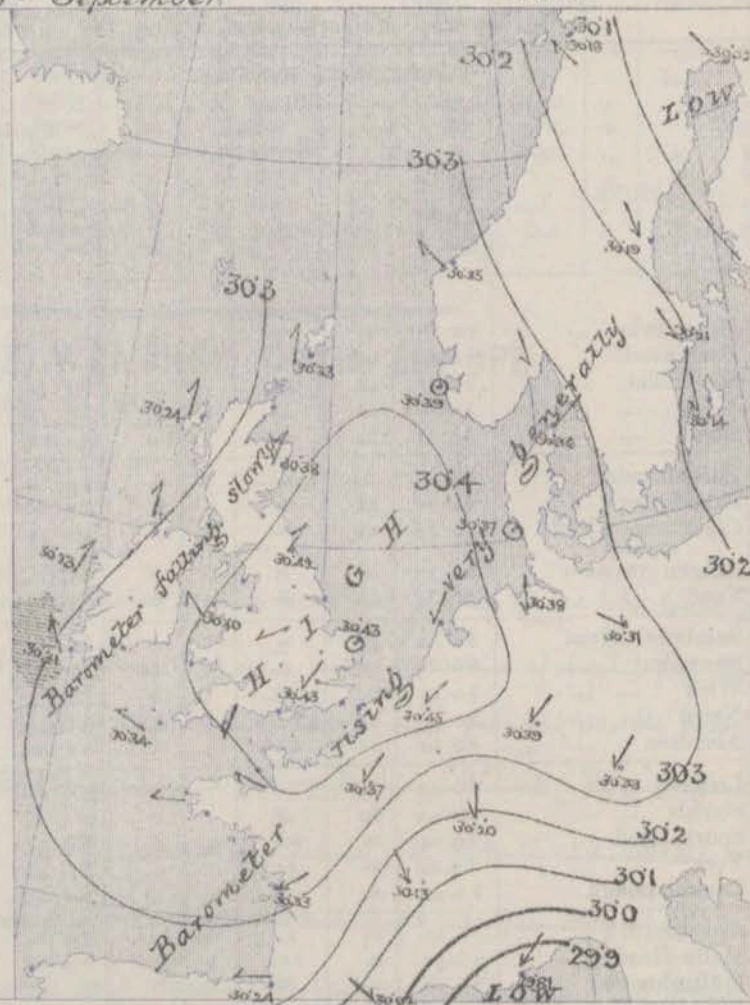
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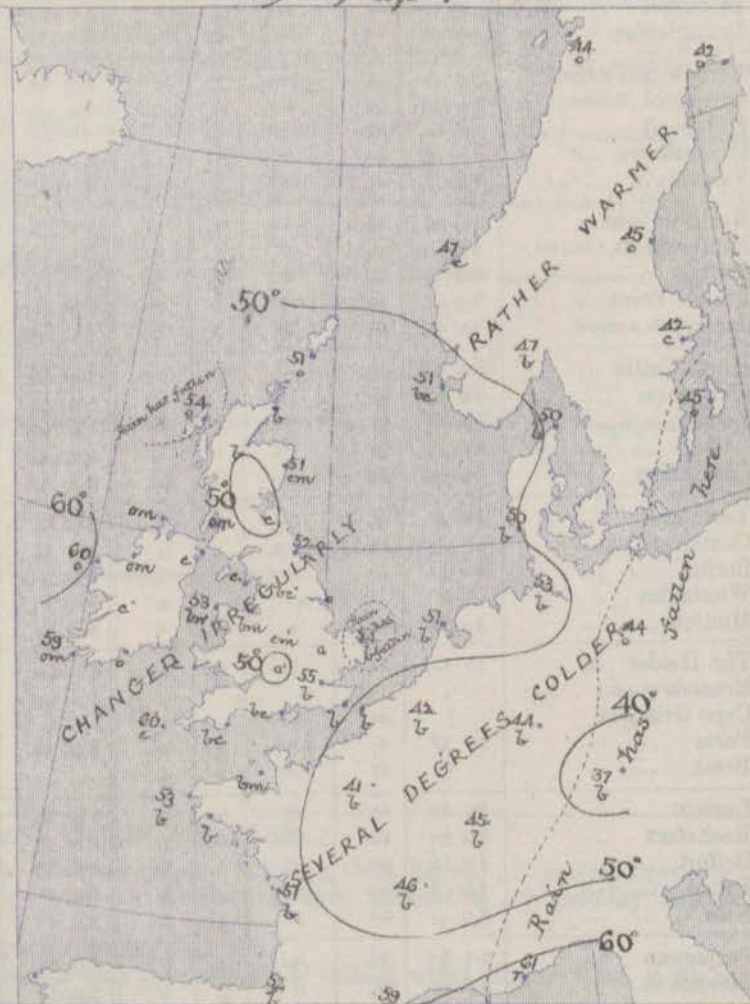
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			Dry.	Wet.	
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Silly.....	61.8	54.8	58.4	56.2	3.69
Jersey.....	65.2	54.9	59.8	57.1	3.51
Hurst Castle.....	64.2	52.2	57.2	55.8	3.35
Dover.....	62.0	53.0	57.9	55.3	2.86
LONDON.....	60.3	49.4	53.9	53.0	2.59
Oxford.....	63.8	49.1	54.2	52.3	2.91
Cambridge.....	65.5	48.1	54.4	52.9	2.48
Yarmouth.....	62.0	51.1	56.2	54.4	3.17

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





# GENERAL SITUATION AT 8 A.M.

## PRESSURE

Highest, 30.4 in. and upwards, in an anticyclone lying over England, Holland, the northeast of France, and the southern part of the North Sea.  
 Lowest, 29.9 in. and less, in a depression lying over the Gulf of Genua; 30.1 in. and less, in the north of Sweden.  
 Gradients moderate over the southern part of France, but slight elsewhere.  
 Barometer falling a little in the western and northern parts of our islands, but rising in most other localities.

## TEMPERATURE

Highest, 76° at Dublin, 61° at Kiev, 60° at Belmullet and Dailly, and 58° at Kilmuir, Aberdeen, and Berquinar.  
 Lowest, 37° at Munich, 41° at Kiev, 42° at Haparanda, Stockholm and Varsna, and 44° at Bess, Kholm and Ustastaden.  
 The maxima registered yesterday were below 60° in the northern and eastern parts of Great Britain.

## WIND

Fresh or strong from the S.W. in the west of Ireland, and light or moderate from the same quarter in Scotland and the east of Ireland.  
 Light from the E. over the greater part of England, and fresh from the same quarter in the west of France.  
 Moderate from the N. over Sweden, Denmark, Germany, and the east of France.

## WEATHER

Bells in the extreme west and north of our islands, as well as in Sweden.  
 Fine in most other localities, but foggy or misty in the northeast of Great Britain, and rainy at Kiev.  
 Showers fell yesterday at some of the German stations and also at Falmouth.

## SEA

Rather rough at Kilmuir, but moderate to smooth elsewhere.

## PROBABLE CHANGES IN SYSTEM NOW PREVALENT

As the anticyclone moves southward the S.W. wind in the west and north will probably become more general.  
 No important change in the weather is, however, indicated at present.

# FORECASTS

For the 24 hours ending at NOON on 17<sup>th</sup> SEPT 1889.

## DISTRICTS.

## FORECASTS.

## DISTRICTS.

## FORECASTS

0 SCOTLAND  
NORTH

S.W. winds, freshening; dull, rain locally.

1 SCOTLAND  
EAST

Light breezes, chiefly S.W.; fair cool.

2 ENGLAND  
N.E.

3 ENGLAND  
EAST

4 MIDLAND  
COUNTIES

E. and S.E. winds, light; fair generally but cool. Very cold tonight.

5 ENGLAND  
SOUTH

6 SCOTLAND  
WEST

7 ENGLAND  
N.W.

8 ENGLAND  
S.W.

9 IRELAND  
NORTH

0 IRELAND  
SOUTH

E. and S.E. winds, light or moderate; fair generally.

E. and S.E. winds, freshening; fair generally.

S.E. and S.W. winds, fresh or strong; dull, some rain.

## WARNINGS

NONE ISSUED.

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



# YESTERDAY'S 2 P.M. REPORTS.

	Bar:	Ther:		Wind		Wea:	Sea		Bar:	Ther:		Wind		Wea:	Sea
		D	W	D	F					D	W	D	F		
Skudesnaes ...	30.33	59	52	Rel	4	c	2	Holyhead ...	30.45	59	51	2	3	b	3
Sumburgh Head ...								Valencia ...							
Stornoway ...	30.40	57	56	56	2	b	3	Seilly ...							
Aberdeen ...								Jersey ...	30.37	62	54	re	4	bc	3
Shields ...								Dungeness ...	30.33	61	54	re	4	c	2
Ardrossan ...								London ...							
Malin Head ...	30.40	59	55	55	3	o	1	Yarmouth ...							
Mullaghmore ...								Rochefort ...	30.29	69	59	re	5	b	2
Belmullet ...	30.37	63	58	58	2	c	2								

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

The reports for yesterday morning showed that pressure was much higher over the British Islands and their neighbourhood than over eastern and southern Europe, and (apparently) the Atlantic. Readings ranged from between 30.3 and 30.5 inches over the United Kingdom, North Sea, Norway and the north of France, to about 29.4 inches in a depression lying over the White Sea, to 29.6 inches and less in another between Moscow and Warsaw, to 29.9 inches and less in a third lying over the northern parts of the Mediterranean, Italy and the Adriatic and to about 30.0 inches or less in a fourth, the centre of which lay over the Portuguese coast. Thus, while calms prevailed in Scotland, and light E. breeze on our western coasts, a fresh to strong wind from the northward was blowing over Scandinavia, the Baltic and Germany (blowing a gale at Lüneburg, and elsewhere); over our southern coasts, the Channel and the west and south of France there was a moderate breeze from northward, while in Austria the wind was W. and at Moscow S.E. The weather was fine over the greater part of W. Europe; dull, but dry in the British Islands, dull over the Baltic and the greater part of Russia, Poland, and E. Germany, with rain at times in many localities. Temperatures had again fallen except in the far north, and was below 40° at many of the Russian stations, below 50° over many parts of Scandinavia, Germany, Hungary and the north of Scotland, and below 60° over nearly the whole of North Western Europe. The highest morning values were 71° at Brindisi & Barcelona, 71° at Tangier & Algiers, 71° at Cagliari & San Fernando, 71° at Corunna & Oporto, and 64° at Perpignan, Legria, Palermo and La Coruña. The lowest were 34° at Stockholm, 37° at Kewpie, 38° at St. Petersburg and Moscow, 38° at Archangel and Warsaw, 39° at Riga & Neufahrwasser, 41° at Stockholm, 41° at Rostock, 41° at Hamburg, 41° at Berlin, 41° at Vienna & Lüneburg. At Berlin the reading was 46° at Paris 51°, and in London 54°.

During the day pressure began to give way a little on our western coasts, and the wind there veered southwards with some increase of temperature. Elsewhere, no material change was recorded.

## SUMMARY OF CHANGES IN THE WEATHER OVER THE BRITISH ISLANDS AND THEIR NEIGHBOURHOOD FROM THE 8<sup>TH</sup> TO THE 14<sup>TH</sup> SEPTEMBER 1889.

The week commenced with cool, and rather showery weather over Ireland and England, accompanied by S.W. or S.E. winds in the former region and N.E. in the latter. An improvement soon took place over England, as a shallow depression which lay in that neighbourhood on the 8<sup>th</sup> passed away to Germany. In Ireland and Scotland, rain in small quantities was of almost daily occurrence during the remainder of the week, and at times fell heavily at the extreme western stations, but in the east and south of England the weather was dry, and the sky occasionally clear. A great deal of fog and haze has prevailed from time to time in most regions and towards the latter part of the week temperature rose so decidedly that maxima of 80° or more were registered at our island stations both on Wednesday & Friday.

On Friday afternoon, however, a sudden 'chill' spread over the whole of North Western Europe from the northward, the depression which had been hitherto prevalent in the west, passed off, an anticyclonic system spread over the Kingdom from the westward, the wind veered to the northward, temperature fell briskly and these conditions were still in force on Saturday 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 Tuesday, 17<sup>th</sup> September, 1889.  
Issued by the Meteorological Office, 63, Victoria Street, London. R. H. SCOTT, Secretary.

STATIONS.	YESTERDAY EVENING.						8 A.M. TO DAY.										PAST 24 HOURS.		
	Barometer at 32° F. and Sea Level.	Temp. in Shade.	WIND.			Weather.	BAROMETER.		SHADE TEMP.			WIND.			Sea. (0 to 2.)	SHADE TEMP.		Amount of Rainfall.	
			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.)	Weather.	Max.		Min.			
SCANDINAVIA.																			
Haparanda ...	30.34	45	Z	0	0	29.97	-0.5	47	44	+5	NW	2	bc	*	52	36	-		
Hernösand ...	30.15	47	Z	0	0	30.15	-0.4	45	44	0	Z	0	b	*	55	39	-		
Stockholm ...	30.20	42	NW	2	0	30.19	-0.2	44	42	+2	W	2	b	*	50	39	-		
Wisby ...	30.17	46	N	4	0	30.22	+0.8	45	43	0	Z	0	b	*	48	39	-		
Bodö ...	30.18	48	SEW	6	0	30.05	-1.3	49	47	+5	ESE	2	0	1	?	?	0.04		
Christiansund ...	30.26	46	SE	1	0	30.13	-1.2	44	43	-3	ESE	1	b	3	52	39	-		
Skudesnaes ...	30.32	46	NNW	1	0	30.25	-1.4	52	47	+1	SE	2	0	3	?	45	-		
Christiania Fjord (Ferder) ...	30.25	54	W	2	0	30.23	-1.2	49	48	+2	N	3	b	2	54	?	-		
Skagen (The Seaw) ...	30.26	49	W	1	0	30.22	-1.2	51	50	+1	W	1	b	0	54	45	-		
Fanö ...	30.32	45	NW	1	0	30.28	-0.9	51	50	+1	SE	2	c	*	59	39	-		
Sumburgh Head ...	30.17	51	S	3	bc	29.99	-1.34	52	51	+1	S	2	c	3	56	49	-		
Stornoway ...	30.06	57	SW	7	0	29.89	-1.35	57	57	+3	SW	6	0	5	57	52	0.01		
Wick ...	30.15	55	S	2	c	30.00	-1.32	55	53	+2	S	3	bc	2	59	50	-		
Nairn ...	30.14	57	SW	1	c	29.97	-1.35	56	54	+6	SSE	1	c	1	68	49	-		
Aberdeen ...	30.24	54	S	2	cm	30.08	-1.30	54	51	+3	S	3	0	3	57	49	-		
Leith ...	30.25	55	W	2	c	30.08	-1.31	58	54	+9	S	3	c	*	60	46	-		
Shields ...	30.30	55	S	2	cm	30.16	-1.26	51	50	-1	S	2	cm	2	60	43	-		
Spurn Head ...	30.36	57	SSW	2	bc	30.26	-1.17	52	48	-1	SW	3	b	3	59	48	-		
York ...	30.36	56	S	1	b	30.23	-1.23	52	49	0	SSE	1	c	*	64	48	-		
Loughborough ...	30.36	56	SSE	1	c	30.26	-1.19	48	45	-4	SE	2	bc	*	62	42	-		
BRITISH ISLANDS.																			
Arrossan ...	30.23	57	S	1	0	30.04	-1.32	57	54	+7	S	6	0	5	60	43	-		
Malin Head ...	30.12	58	S	4	cgm	29.88	-1.39	56	54	+1	S	5	0gm	2	62	54	-		
Mullaghmore ...	30.13	59	S	6	ogm	29.89	-1.40	58	55	0	ESE	6	ogm	4	61	56	-		
Belmullet ...	30.09	59	SSW	6	0	29.88	-1.35	57	56	-3	WSW	2	0	*	62	55	0.15		
Donaghadee ...	30.25	56	SW	3	c	30.06	-1.31	55	53	+1	SSW	5	c	3	61	53	-		
Barrow-in-Furness ...	30.19	57	SE	4	0	30.15	-1.25	54	54	+4	SSE	5	0	*	59	50	-		
Liverpool (Bidston) ...	30.34	51	SSE	1	0	30.19	-1.25	53	47	+1	SSE	2	b	2	60	50	-		
Holyhead ...	30.30	56	SSW	2	0	30.13	-1.27	56	50	+3	S	5	cq	5	60	52	-		
Parsonstown ...	30.21	57	SW	1	0	29.97	-1.37	56	54	+1	SE	2	0	*	60	55	0.13		
Valencia ...	30.17	59	SSE	5	cm	29.89	-1.42	55	54	-4	WSW	2	cm	2	60	54	0.05		
Roche's Point ...	30.22	60	S	5	0	29.99	-1.37	60	57	+1	S	6	0	5	61	57	0.25		
Pembroke (St. Ann's Hd.) ...	30.33	57	S	3	c	30.12	-1.28	56	52	+4	S	5	bc	4	60	52	-		
Scilly ...	30.29	58	SE	5	bc	30.09	-1.25	59	57	-1	SSE	5	0	4	64	54	-		
Prawle Point ...	30.36	54	ESE	3	b	30.19	-1.20	56	48	+1	SE	4	b	3	61	47	-		
Jersey (St. Aubin's) ...	30.35	57	ESE	4	b	30.23	-1.17	57	48	-1	SE	4	b	3	62	52	-		
Hurst Castle ...	30.39	56	ESE	3	b	30.24	-1.18	57	55	+1	SSE	4	bc	1	62	51	-		
Dungeness ...	30.39	55	SE	2	b	30.29	-1.13	56	49	0	SSE	2	b	2	64	52	-		
London ...	30.38	54	E	2	b	30.28	-1.15	51	45	-4	SE	2	bc	*	64	38	-		
Oxford ...	30.38	54	SE	2	0	30.26	-1.19	47	43	-2	SSE	2	bc	*	60	36	-		
Cambridge ...	30.41	53	S	1	b	30.28	-1.17	51	47	-2	S	1	b	*	61	35	-		
Yarmouth ...	30.41	55	SSE	2	bv	30.30	-1.13	50	47	-4	W	1	bc	2	58	42	-		
Cuxhaven ...	30.34	50	NNW	3	b	30.31	-1.04	47	46	-6	S	1	b	*	55	47	-		
Berlin ...	30.30	50	NW	3	c	30.28	-1.03	47	44	+3	NW	2	0	*	54	43	-		
Wiesbaden ...	*	*	*	*	*	30.29	-1.10	50	46	+6	E	1	0	*	54	?	-		
Munich ...	30.32	44	NW	2	bc	30.27	-1.06	41	39	+4	NE	4	0	*	48	37	0.04		
FRANCE AND NETHERLANDS.																			
The Helder ...	30.38	55	NW	1	b	30.31	-1.13	52	50	+1	WSW	1	b	1	57	?	0.04		
Brussels (8 a.m.) ...	*	*	*	*	*	30.33	-1.12	49	43	+5	ESE	1	bc	*	57	41	-		
Cape Gris Nez ...	?	53	ESE	3	b	?	?	50	43	+5	S	2	b	1	59	43	-		
Paris ...	30.34	50	NE	3	b	30.30	-1.07	39	36	-2	NE	1	b	*	?	34	-		
Brest ...	?	62	ESE	3	0	?	?	53	48	0	ESE	4	0	3	68	46	-		
Lorient ...	30.30	60	E	4	b	30.21	-1.13	49	46	-6	E	4	b	2	68	46	-		
Rocheport ...	30.28	61	NE	5	b	30.21	-1.12	46	42	-5	E	4	b	2	70	39	-		
Belfort ...	30.19	48	N	3	b	30.21	+0.01	41	37	-4	N	2	b	*	55	33	-		
Lyons ...	30.17	52	N	6	b	30.23	+1.0	41	37	-5	NNW	2	b	*	58	37	-		
Nice ...	29.94	55	N	5	0	30.06	+2.5	53	45	-8	E	2	b	3	68	46	0.28		
Perpignan ...	30.08	64	NW	3	b	30.14	+1.2	49	43	-10	W	1	b	*	72	41	-		
Biarritz ...	30.19	63	NE	4	b	30.08	-1.16	50	46	-2	ESE	4	b	1	68	46	-		
PENIN. ISLANDS.																			
Corunna ...	*	*	*	*	*	29.93	-0.0	71	57	-5	NE	3	b	2	93	70	-		
Lisbon ...	29.90	83	NNW	4	b	29.93	-0.0	71	57	-5	NE	3	b	2	93	70	-		



## 1889.

### EXPLANATION OF MAP

Changes since previous morning are stated in words.

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

→ = forces 5 to 7; → = forces 1 to 4.

(\*) = dead calm.

SEA DISTURBANCE—Where considerable, is shown thus:

$\nabla$  = Rough,  $\nabla$  = High.

at 8.0 a.m. for the month of September.

*During the 15 Years: 1871—1885.*

[illegible]

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]



# GENERAL SITUATION AT 8 A.M.

## PRESSURE

Highest, 30.3 in: and upwards, in an anticyclone lying over the Netherlands and the northeast of France.  
 Lowest, 29.3 in: and less, in a large depression lying to the westward of our islands.  
 Gradients moderate over our western and northern coasts, but slight elsewhere.  
 Barometer falling at all but the southern French stations—most in the west and north of our islands.

## TEMPERATURE

Highest, 71° at Gabon, 60° at Cork, 59° at Seilly, and 58° at Louth and Mullaghmore.  
 Lowest, 33° at Paris, 41° at Munich, Belfast and Lyons, and 44° at Stockholm and Christiania.  
 During last night the sheltered thermometer over the inland part of England and France fell below 40°, and in London the minimum on the grass was as low as 29°.

## WIND

Fresh or strong from the S. at most of our western stations, but light from W. at Belmullet and Valencia.  
 Light from S. on our eastern coast, and from SE. on the eastern shores of the North Sea.  
 Moderate from SE. in the South of England, and from E. in the west of France.

## WEATHER

Dull in Germany and also at some of our own western and northern stations, with rain at Valencia.  
 Fine in nearly all other localities, with heavy dew over England.  
 Since yesterday morning rain has fallen at many of the Irish stations.

## SEA

Rather rough at Stornoway, Ardrossan, Holyhead, and Cork, but moderate to smooth elsewhere.

## PROBABLE CHANGES IN SYSTEM NOW PREVALENT

The large depression in the west seems likely to extend somewhat in an easterly direction, and will probably occasion rain at most of our western and northern stations. Our southeastern districts are, however, not likely to be affected at present.

## FORECASTS

For the 24 hours ending at NOON on 18<sup>th</sup> SEPT 1889.

### DISTRICTS.

### FORECASTS.

### DISTRICTS.

### FORECASTS

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

S<sup>w</sup> winds, increasing in force; fair to unsettled and some rain.  
 S<sup>w</sup> winds, freshening; fair generally.  
 SE<sup>w</sup> winds, freshening; fine generally, very cold tonight.

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

S<sup>w</sup> winds, strong; dull, some rain.  
 S<sup>w</sup> winds, fresh or strong; fair to unsettled and some rain.  
 S<sup>w</sup> and SW<sup>w</sup> winds, strong in places; dull, some rain.

### WARNINGS

The SOUTH CONE was hoisted last evening in districts Nos 6, 9, and 10

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



# YESTERDAY'S 2 P.M. REPORTS.

	Bar:	Ther:		Wind		Wea:	Sea		Bar.	Ther:		Wind		Wea:	Sea.
		D	W	D	F					D	W	D	F		
Skudesnaes ...	30. 37	58	49	N	2	bc	2	Holyhead ...	30. 35	60	52	E	4	b	3
Sumburgh Head ...	30. 23	55	54	S	3	c	3	Valencia ...	30. 24	60	56	SE	5	om	5
Stornoway ...	30. 14	57	57	S	5	o	5	Scilly ...	30. 33	62	59	SE	4	bc	4
Aberdeen ...	30. 28	57	51	S	4	b	3	Jersey ...	30. 39	60	51	E	5	b	4
Shields ...	30. 35	59	54	SSW	2	bc	3	Dungeness ...	30. 42	58	49	SE	3	b	2
Ardrossan ...	30. 28	59	56	SSW	1	o	1	London ...	30. 41	58	49	SE	2	c	4
Malin Head ...	30. 18	59	54	S	5	o	2	Yarmouth ...	30. 43	58	51	SE	2	b	2
Mullaghmore ...	30. 20	61	55	SE	5	om	2	Rocheport ...	30. 31	66	54	NE	5	b	2
Belmullet ...	30. 21	61	57	SW	6	o	2								

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

The report for yesterday morning showed that the high pressure area noticed over the British Islands on Sunday was moving southeastwards, that the depressions over Russia were filling up, and the barometer consequently rising, while the depression over the Mediterranean was growing deeper. In the meantime the barometer was falling rather decidedly in the north and west of our Islands. Readings varied from 30.4 ins. and more over England, Belgium, and Holland to 29.55 ins. at Archangel, to 29.7 ins. and less over Genoa, and to about 30.2 ins. off the extreme northwest coast of our Islands. The N winds over Scandinavia and Central Europe were moderating, the E winds over the south of England, the Channel, and Bay of Biscay were rising, while in Ireland there was a freshening breeze from the S.W. Over the northern part of the Adriatic, Italy, and Gulf of Genoa there was a fresh to strong breeze from ENE. and a gale at Brindisi, while over the Gulf of Genoa the wind was NW. The weather was fine and light over Spain, France, South Germany, Austria, Denmark, the Netherlands, and a great deal of England, cloudy elsewhere, with rain at times in some places. Temperature had fallen decidedly over Southern and Southeastern Europe, but showed a slight tendency towards recovering in the northwest and north, the only region at which the morning readings were below 40° were Finland, Poland, and some of the southern parts of Russia. The highest morning values were 76° at Lisbon, 75° at Brindisi, Malta, and Palermo; 73° at Algiers, San Fernando, 72° at Sanguinaria, 71° at Barcelona and Constantinople; the lowest were 36° at Uleaborg, 37° at Kiev, 35° at Kharkov, Ciacow, and Warsaw, 41° at Simbereg and Paris, 42° at Nicolaieff, Kustafkeith, Vienna, Prague, Breslau, Brunswick, Hermand and Haparanda. Throughout the British Isles the readings were between 50° and 60°.

Later in the day the S wind in the west spread rather more to the eastward over the British Islands, but the weather remained very fine but cold over England, where a frost occurred on the grass at the inland 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 Wednesday 18<sup>th</sup> Sept. 1889.  
Issued by the Meteorological Office, 63, Victoria Street, London. R. H. SCOTT, Secretary.

STATIONS.		YESTERDAY EVENING.					8 A.M. TO DAY.										PAST 24 HOURS.		
		Barometer at 3 <sup>rd</sup> P. and Sea Level.	Temp. in Shade.	WIND.			BAROMETER.		SHADE TEMP.			WIND.			Sea. (0 to 2.)	SHADE TEMP.		Amount of Rainfall.	
				Direc.	Force. (0 to 12.)	Weather.	Reading at 3 <sup>rd</sup> P. and Sea Level.	Difference from 8 a.m. yesterday.	Dry.	Wet.	Difference from 8 a.m. yesterday.	Direc.	Force. (0 to 12.)	Weather.		Max.	Min.		
SCANDINAVIA.	Haparanda ...	29.88	46	2	0	7	29.77	-20	48	46	+1	SW	2	C	*	53	37	—	
	Hernösand ...	30.04	46	2	0	6	29.91	-24	44	43	-1	2	0	C	*	63	39	—	
	Stockholm ...	30.15	46	2	0	6	30.12	-07	49	46	+3	SW	2	C	*	59	39	—	
	Wisby ...	30.19	45	SW	2	6	30.21	-01	48	46	+2	SW	2	C	*	50	37	—	
	Bodö ...	29.85	50	SW	2	0	29.62	-43	51	50	+2	SW	6	0	4	51	46	0.20	
	Christiansund	29.99	46	ENE	1	6	29.75	-38	51	48	+7	ENE	1	C	3	54	43	—	
	Skudesnaes ...	30.17	56	ENE	4	0	30.05	-20	53	51	+2	S	6	0	4	57	?	—	
	Christiania Fjord (Færder)	30.12	53	ENE	3	6	30.02	-21	51	51	+2	WNW	3	C	2	57	?	—	
	Skagen (The Scaw)	30.15	50	W	1	6	30.11	-11	53	51	+2	WNW	2	C	1	57	46	—	
	Fanö ...	30.23	46	2	0	6	30.20	-08	51	49	0	S	2	C	*	57	45	—	
BRITISH ISLANDS.	Sumburgh Head	29.95	53	S	1	C	29.79	-20	53	52	+1	SW	3	0	4	57	50	0.05	
	Stornoway ...	29.89	56	SW	6	0	29.71	-18	52	52	-5	SW	4	7	5	57	50	0.05	
	Wick ...	29.95	56	E	1	6	29.85	-15	53	53	0	SW	3	0	2	60	52	—	
	Nairn ...	29.97	57	2	0	C	29.87	-10	58	55	+2	SW	3	C	2	60	52	—	
	Aberdeen ...	30.05	55	SW	2	6Cm	29.97	-11	54	51	0	S	2	6C	2	60	48	—	
	Leith ...	30.09	58	WNW	2	6	30.04	-04	56	50	-2	SW	4	C	*	61	43	—	
	Shields ...	30.11	56	SW	3	m	30.11	-05	48	46	-3	SW	2	6C	2	60	41	—	
	Spurn Head ...	30.19	58	S	4	6	30.21	-05	54	50	+2	SW	3	C	3	60	48	—	
	York ...	30.17	57	S	1	6	30.19	-04	49	44	-5	S	1	C	*	62	39	—	
	Loughborough	30.17	55	SE	1	6	30.22	-04	42	41	-6	ENE	1	6m	*	65	34	—	
GERMANY.	Ardrossan ...	30.06	57	S	4	6	30.05	+01	56	53	-1	SW	4	0	3	58	54	—	
	Malin Head ...	29.98	57	S	4	0p	30.00	+12	55	54	-1	SW	4	0d	3	58	52	0.11	
	Mullaghmore ...	29.98	53	ENE	5	6m	30.04	+15	56	53	-2	SW	5	0	4	59	53	0.29	
	Belmullet ...	30.00	56	NNE	2	0	30.05	+17	56	54	-1	W	2	0	*	58	53	0.06	
	Donaghadee ...	30.07	55	SW	3	6C	30.11	+05	51	50	-4	SW	3	C	1	59	49	—	
	Barrow-in-Furness	30.09	57	SE	4	6	30.12	-03	51	49	-3	SE	6	C	*	60	44	—	
	Liverpool (Bidston)	30.12	56	SE	2	6	30.18	-01	50	45	-3	SE	2	C	2	62	42	—	
	Holyhead ...	30.10	56	SW	3	6C	30.14	+01	54	50	-2	S	1	6m	2	65	47	—	
	Parsonstown ...	30.02	58	SE	2	C	30.13	+16	46	45	-10	2	0	C	*	60	43	—	
	Valencia ...	29.96	58	NNE	1	0	30.13	+24	58	53	+3	2	0	C	1	58	51	0.20	
FRANCE AND NETHERLANDS.	Roche's Point...	30.00	60	ENE	5	0m	30.12	+13	59	53	-1	SE	2	C	3	61	50	0.02	
	Pembroke (St. Ann's Hd.)	30.08	57	S	3	6C	30.15	+03	51	50	-3	E	3	6m	2	57	46	—	
	Scilly ...	30.01	56	ENE	6	6C	30.08	-01	59	53	0	E	5	C	4	63	54	—	
	Prawle Point ...	30.09	54	E	3	6	30.14	-05	58	51	+2	E	4	C	3	60	42	—	
	Jersey (St. Aubin's)	30.08	60	ENE	3	6	30.13	-10	56	51	-1	E	5	6m	4	63	51	—	
	Hurst Castle ...	30.17	55	ENE	3	6m	30.19	-05	54	53	-3	E	3	6C	1	60	46	—	
	Dungeness ...	30.19	57	ENE	1	6	30.20	-09	53	52	+3	SE	3	C	2	64	53	—	
	London ...	30.18	53	SE	1	6m	30.22	-06	51	48	0	ENE	1	6f	*	64	41	—	
	Oxford ...	30.20	50	SE	1	6	30.23	-03	46	44	-1	ENE	1	6m	*	62	35	—	
	Cambridge ...	30.22	54	S	1	6	30.26	-02	51	49	0	2	0	0	*	65	38	—	
PENIN- SULA.	Yarmouth ...	30.21	56	ENE	3	6V	30.22	-08	53	50	+3	2	0	6Cm	2	58	46	—	
	Cuxhaven ...	30.26	54	N	2	6	30.22	-09	54	51	+7	NE	3	C	*	57	53	—	
	Berlin ...	30.21	52	NNE	2	7	30.21	-07	48	46	+1	NE	3	C	*	55	46	—	
	Wiesbaden ...	*	*	*	*	*	30.19	-10	46	44	-4	2	0	C	*	57	39	—	
	Munich ...	30.19	42	N	3	0	30.15	-12	38	37	-3	NW	3	7	*	50	36	0.04	
	The Helder ...	30.25	53	2	0	6	30.24	-07	54	52	+2	NE	1	C	1	57	50	—	
	Brussels (9 a.m.)	*	*	*	*	*	30.25	-08	48	45	+1	E	1	C	*	58	41	—	
	Cape Gris Nez	?	54	E	1	6	?	?	46	44	-4	ENE	2	m	1	63	45	—	
	Paris ...	30.15	54	ENE	2	6	30.17	-13	40	39	+1	N	1	C	*	62	37	—	
	Brest ...	?	62	SE	2	6	?	?	50	?	-3	E	4	6C	4	68	45	—	
PENIN- SULA.	Lorient ...	30.02	61	ENE	3	6C	30.01	-20	49	44	0	E	4	C	2	64	48	—	
	Rochefort ...	30.03	64	E	4	6	29.99	-22	48	44	+2	E	5	6C	2	79	43	—	
	Belfort ...	30.12	48	SW	2	6	30.12	-09	40	36	-1	SE	2	C	*	52	36	—	
	Lyons ...	30.10	52	N	1	6	30.10	-13	39	36	-2	N	1	C	*	60	37	—	
	Nice ...	30.07	52	E	1	C	30.05	-01	32	49	-1	ENE	3	C	1	63	46	0.16	
	Perpignan ...	30.02	58	SE	1	6	29.97	-17	57	54	+8	SW	1	0	*	68	47	—	
	Biarritz ...	29.88	69	E	4	6	29.77	-01	53	48	+5	ENE	4	C	1	75	50	—	
	Corunna ...	29.89	68	NW	4	6	29.80	-18	64	59	-7	WNW	1	0	?	81	61	—	
	Lisbon ...	29.89	68	NW	4	6	29.80	-18	64	59	-7	WNW	1	0	?	81	61	—	

For Explanation of Columns, see bottom of p 4.

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



## 1889.

### EXPLANATION OF MAP

$\nabla$  = Rough,  $\nabla$  = High.

*During the 15 Years: 1871—1885.*

A hand-drawn weather map of the British Isles, showing isobars, pressure trends, and weather conditions. The map is oriented with North at the top.

- Isobars:** Labeled with values ranging from 29.7 to 30.6. Key values include 29.7, 29.8, 29.9, 30.0, 30.1, 30.2, 30.3, 30.4, 30.5, and 30.6.
- Pressure Systems:**
  - L (Low):** Located in the North Atlantic, off the coast of Ireland.
  - H (High):** Located in the North Atlantic, off the coast of Scotland.
- Barometer Trends:**
  - falling:** Indicated in the North Atlantic and over the British Isles.
  - rising:** Indicated in the North Atlantic, off the coast of Ireland.
  - steady:** Indicated in the North Atlantic, off the coast of Scotland.
- Weather Conditions:**
  - decidedly:** Indicated in the North Atlantic, off the coast of Ireland.
  - slowly:** Indicated in the North Atlantic, off the coast of Scotland.
  - fading:** Indicated in the North Atlantic, off the coast of Ireland.
- Other Labels:**
  - LOW:** Located in the North Atlantic, off the coast of Ireland.
  - W:** Located in the North Atlantic, off the coast of Ireland.
  - O:** Located in the North Atlantic, off the coast of Ireland.
  - G:** Located in the North Atlantic, off the coast of Scotland.
  - I:** Located in the North Atlantic, off the coast of Scotland.
  - H:** Located in the North Atlantic, off the coast of Scotland.

(For the month of September.)

A hand-drawn map of Europe and Western Asia, likely from a 19th-century weather journal. The map is annotated with handwritten notes and temperature readings. A wavy line runs from the North Atlantic, through the British Isles, across the North Sea, and down the coast of Europe and Asia. The areas are labeled with handwritten text: "WARMER" in the North Atlantic, "A LITTLE WARMER" in the North Sea, "COLDER" in the Baltic region, "SLIGHTLY WARMER" in the Mediterranean, and "IN MOST PLACES" in the South. Specific notes include "Rain has fallen" in the North Atlantic, "has" in the British Isles, "rather" in the North Sea, and "has fallen" in the South. Temperature readings in degrees Celsius and Fahrenheit are scattered across the map, often with a small circle around the number. For example, in the North Atlantic, there are readings like 51, 50, 48, and 46. In the British Isles, there are readings like 51, 50, 48, and 46. In the North Sea, there are readings like 51, 50, 48, and 46. In the Baltic region, there are readings like 51, 50, 48, and 46. In the Mediterranean, there are readings like 51, 50, 48, and 46. In the South, there are readings like 51, 50, 48, and 46.

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



# GENERAL SITUATION AT 8 A.M.

## PRESSURE

Highest, 30.10 in. to 30.25 in., in an anticyclone covering the Baltic, Germany, Holland, England, the northeast of France and southeast of Ireland. Lowest, 29.7 in. and less, to the northward of Norway and over the north of Norway. 29.8 in. and less, over Spain - apparently below 30.0 in. over Austria-Hungary. Gradients slight over Ireland, England, the Netherlands and Germany, moderate over the Bay of Biscay, rather steep in north.

## TEMPERATURE

Barometer falling except in the southwest and south of our islands - most in the far north. Highest, 64° at Lisbon, 59° at Seville, and Rocher Point, 58° at Barolo Point, Valencia and Ainar, 56° at Bilmullet, 53° at Uthick and Rudeenose. Lowest, 38° at Munich, 39° at Lyons, 40° at Belfort and Paris, 42° at Loughborough, and 46° at Wiesbaden, Oxford, and Kilmontown. It fell during the night to 34° in the screen at Loughborough, 35° at Oxford, 37° at Paris, 38° at Cambridge, 39° at York, 41° in London. The maximum temperatures over Germany, yesterday, were below 60°.

## WIND

Light NE over North Germany and Holland - moderate E over the Channel and Bay of Biscay. Very light SE in the south of Ireland - moderate SW at all our northern stations. Strong S to SW in the west of Norway - nearly calm over the Baltic.

## WEATHER

Fine and bright at by far the majority of the stations, but becoming overcast in the northwest and north, with rain at Malin Head and Stormont. Very cold rain in falling at Munich. The newspapers report great cold in Austria, Eastern Germany, and that heavy snow has fallen in the various mountain districts.

## SEA

Rather rough at Stormont, moderate at Seaburgh H., Mullaghmore, Seilly, Brest and Jersey, slight or smooth elsewhere.

## PROBABLE CHANGES IN SYSTEM NOW PREVALENT

The weather seems to be falling into a much less fair condition than of late, SW to W winds and rain seem about to spread over all the northern parts of the Kingdom, but are not likely to reach our southern counties immediately.

## FORECASTS

For the 24 hours ending at NOON on 19<sup>th</sup> SEPT 1889.

### DISTRICTS.

### FORECASTS.

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

SW<sup>2</sup> and W<sup>2</sup> winds; colder, some rain.

Same as No 4

Calms followed by SW<sup>4</sup> and W<sup>4</sup> breezes, fine, warmer.

S<sup>3</sup> to SW<sup>2</sup> breezes; fine, warmer.

E<sup>4</sup> airs and calms; fair, foggy.

### DISTRICTS.

### FORECASTS

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

Same as No 0 and 1.

E<sup>2</sup> and SE<sup>2</sup> breezes; fine generally.

S<sup>2</sup> and SW<sup>2</sup> breezes; fine at first, rather uncertain later

### WARNINGS

NONE ISSUED

No's. - The South Cone, point downwards (  $\nabla$  ), 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 (  $\nabla$  ), means that gales, or strong winds, are probable, at first from the Northward (from N.W. round by N. to S.E.). Should it appear likely that a gale beginning from between E. and S.E. is likely to veer towards S. or S.W., the South Cone is hoisted in preference to the North Cone.



# YESTERDAY'S 2 P.M. REPORTS.

	Bar.	Ther.		Wind		Wea.	Sea		Bar.	Ther.		Wind		Wea.	Sea.
		D	W	D	F					D	W	D	F		
Skudesnaes ...	29.22	57	50	SE	2	c	3	Holyhead ...	30.10	60	53	S	5	bc	5
Sumburgh Head ...	29.96	56	53	S	3	c	4	Valencia ...	29.93	57	57	SE	1	7m	2
Stornoway ...	29.90	56	56	SW	7	p	5	Scilly ...	30.03	60	57	SE	6	c	5
Aberdeen ...	30.07	59	54	SE	3	c	3	Jersey ...	30.15	62	52	E	3	c	3
Shields ...	30.13	60	55	S	2	bm	2	Dungeness ...	30.24	60	51	S	3	c	2
Ardrossan ...	30.07	58	53	S	5	bc	4	London ...	30.21	60	50	SE	3	c	*
Malin Head ...	29.92	56	54	S	5	o/f	3	Yarmouth ...	30.25	58	50	SE	3	c	2
Mullaghmore ...	29.94	58	57	SE	4	7.0	3	Rochefort ...	30.13	75	57	E	4	c	2
Belmullet ...	29.97	58	55	N	1	o	*								

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

The reports for yesterday morning showed that the distribution of pressure was mainly anticyclonic, the central portion of the high pressure system, with readings above 30.3 in. being found over the Netherlands and northeast of France. To the northward of this region pressure decreased to 29.7 in. over the extreme north of Russia, and to the southward it fell to 29.3 in. and less, over the Black Sea, Turkey, Greece and the south of Italy, while to the westward it also decreased to 29.3 in. and less in a large depression lying to the westward of the British Isles. The wind was S<sup>4</sup> over the greater part of the United Kingdom, strong in force at some of our western stations, but in the extreme west of Ireland it was light from WSW. In the west of Norway light SE<sup>4</sup> breezes were reported, but in Russia the wind was chiefly W<sup>2</sup>, while over Southern Europe it was light or moderate from the NE<sup>4</sup>. The weather was dull in Ireland and the west of Scotland, as well as in Russia, Austria, Germany, and the south of Italy, with rain in many places. Elsewhere, however, conditions were mostly fine. Temperature had fallen a few degrees over England, France, and Italy, but risen a little in most other localities; readings ranged from a little above 40° over the central and southern parts of the Mediterranean to 40° or less in some part of northern and central Europe. The highest individual readings were 75° at Malta, 73° at Algiers, La Calle and Sfax, 72° at Brindisi, 71° at Lisbon, Palma, and Oren, and 70° at Cagliari, the lowest were 37° at Le Mans, 38° at Petersburg, 39° at Kiev and Bucharest, 40° at Hangö, Helsingfors, Moscow and Nisnaw and 41° at Archangel, Munich, Belfast and Lyons.

In the course of the day the large depression to the westward of our Islands grew shallower, and the barometer rose somewhat on our extreme western coast, while the wind there fell light and variable. No important change occurred in the weather, slight ground frost was experienced over the inland parts of England at night.

### EXPLANATION OF COLUMNS GIVEN ON PAGE 1.

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

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

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

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



# DAILY WEATHER REPORT.

for *Thursday, 19<sup>th</sup> September, 1889.*  
 Issued by the Meteorological Office, 63, Victoria Street, London. R. H. SCOTT, Secretary.

STATIONS.	YESTERDAY EVENING.						8 A.M. TO DAY.										PAST 24 HOURS.		
	Barometer at 32° F. and Sea Level.	Temp. in Shade.	WIND.			Weather.	BAROMETER.		SHADE TEMP.			WIND.			Sea. (0 to 2.)	SHADE TEMP.		Amount of Rainfall.	
			Dirce.	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.	Dirce.	Force. (0 to 12.)			Max.	Min.		
SCANDINAVIA.	Haparanda ...	29.62	48	SW	4	0	29.53	-24	48	46	0	S	4	0	*	52	47	—	
	Hernösand ...	30.13	58	SW	4	0	29.53	-23	52	49	+8	SW	6	0	*	63	35	—	
	Stockholm ...	30.01	49	SW	2	0	29.87	-25	52	48	+3	SW	2	0	*	64	39	—	
	Wisby ...	30.10	48	SW	4	0	29.93	-23	49	48	+1	SW	4	0	*	53	41	—	
	Bodö ...	29.45	50	SW	6	7	29.22	-40	50	49	-1	S	0	0	0	52	41	0.63	
	Christiansund	29.51	52	SW	6	7	29.26	-43	49	48	-2	SW	4	7	4	57	48	0.20	
	Skudesnaes ...	29.84	57	S	8	0	29.41	-64	55	53	0	S	8	7	6	59	54	1.26	
	Christiania Fjord (Færd)	29.91	57	SW	7	0	29.65	-37	56	53	+5	SW	7	0	6	57	?	—	
	Skagen (The Scaw)	30.01	54	SW	3	0	29.77	-34	54	51	+1	SW	5	0	3	59	52	—	
	Fanö ...	30.08	54	SW	4	0	29.86	-34	56	52	+5	SW	6	0	*	57	50	—	
BRITISH ISLANDS.	Sumburgh Head	29.56	53	SW	5	0	29.24	-35	47	47	-6	SW	2	7	5	55	45	0.21	
	Stornoway ...	29.64	53	W	3	0	29.36	-35	48	47	-4	W	5	0	4	58	42	0.48	
	Wick ...	29.64	53	SW	4	0	29.34	-31	48	46	-7	NW	6	7	4	55	43	0.30	
	Nairn ...	29.70	52	SW	4	7	29.39	-48	50	49	-8	SW	3	0	3	58	45	0.12	
	Aberdeen ...	29.80	53	SW	3	0	29.42	-35	52	49	-2	SW	2	0	3	59	49	0.50	
	Leith ...	29.87	56	SW	5	0	29.52	-32	54	50	-2	SW	6	0	*	62	48	0.35	
	Shields ...	29.97	56	SW	2	0	29.62	-49	51	50	+3	SW	3	0	2	63	46	0.12	
	Spurn Head ...	30.07	58	SW	3	0	29.77	-44	53	51	-1	SW	6	0	4	62	50	—	
	York ...	30.05	57	S	1	0	29.71	-48	53	50	+6	SW	3	0	*	62	45	0.01	
	Loughborough	30.09	57	SW	1	0	29.81	-41	52	49	+10	SW	4	0	*	66	42	—	
GERMANY.	Ardrossan ...	29.88	57	SW	5	0	29.57	-48	52	50	-4	W	5	0	4	57	50	0.66	
	Malin Head ...	29.84	55	SW	6	0	29.58	-42	52	49	-3	WNW	6	0	4	58	51	0.10	
	Mullaghmore ...	29.94	58	SW	5	0	29.71	-83	55	51	-1	WNW	6	0	5	62	51	0.23	
	Belmullet ...	29.95	57	SW	6	0	29.75	-30	55	52	-1	WNW	5	0	*	58	51	0.30	
	Donaghadee ...	29.95	58	SW	3	0	29.68	-43	50	49	-1	WNW	4	0	2	62	49	0.44	
	Barrow-in-Furness	30.01	57	SW	4	0	29.71	-41	52	51	+1	NW	5	7	*	59	51	0.66	
	Liverpool (Bidston)	30.06	57	SW	2	0	29.75	-43	53	52	+3	WNW	4	7	3	65	?	0.11	
	Holyhead ...	30.05	56	SW	5	0	29.78	-36	50	50	-4	WNW	5	7	5	61	50	0.57	
	Parsonstown ...	30.02	59	S	0	0	29.82	-31	50	49	+4	S	0	7	*	64	45	0.20	
	Valencia ...	30.07	58	SW	2	0	29.91	-22	52	53	-4	WNW	3	7	2	62	52	0.17	
FRANCE AND NETHERLANDS.	Roche's Point...	30.12	57	SW	2	0	29.86	-26	57	56	-2	WNW	4	7	4	62	53	0.06	
	Pembroke (St. Ann's Hd.)	30.10	57	SW	2	0	29.86	-29	57	56	+6	SW	5	0	4	60	51	—	
	Scilly ...	30.06	58	SW	5	0	29.96	-12	58	55	-1	WNW	4	0	4	63	54	—	
	Prawle Point ...	30.10	56	SE	3	0	29.94	-20	57	53	-1	SW	4	0	3	60	52	—	
	Jersey (St. Aubin's)	30.07	63	SE	3	0	30.02	-11	58	52	+2	S	3	0	3	65	54	—	
	Hurst Castle ...	30.14	57	SE	3	0	29.96	-23	60	58	+6	SW	5	0	2	64	50	—	
	Dungeness ...	30.14	59	NE	1	0	29.97	-23	60	54	+1	SW	5	0	4	65	52	—	
	London ...	30.13	61	SW	1	0	29.94	-28	58	57	+5	SW	3	0	*	67	41	—	
	Oxford ...	30.13	53	S	2	0	29.90	-33	52	51	+6	SW	3	0	*	64	42	—	
	Cambridge ...	30.13	56	S	1	0	29.86	-40	54	51	+3	SW	1	0	*	67	42	—	
PENIN- SULA.	Yarmouth ...	30.14	56	S	2	0	29.89	-23	55	51	+2	SW	4	0	8	59	50	—	
	Cuxhaven ...	30.20	49	NNW	2	0	29.98	-24	47	46	-7	SW	2	0	*	56	47	—	
	Berlin ...	30.20	52	S	0	0	30.11	-10	45	43	-3	SW	1	0	*	57	41	—	
	Wiesbaden ...	?	*	*	*	*	30.13	-86	40	39	-6	NE	1	0	*	57	36	—	
	Munich ...	30.20	40	NW	1	0	30.15	0.0	37	37	-1	S	0	0	*	57	?	0.08	
	The Helder ...	30.17	50	SE	1	0	29.94	-30	48	47	-6	S	2	0	2	61	45	—	
	Brussels (9 a.m.)	?	*	*	*	*	30.06	-19	49	45	+1	S	2	0	*	60	46	—	
	Cape Gris Nez	?	56	SE	2	0	?	?	50	45	+4	S	3	0	2	66	46	—	
	Paris ...	30.12	57	E	1	0	30.08	-99	41	40	+1	S	2	0	*	54	37	—	
	Brest ...	?	66	SE	3	0	?	?	53	51	+3	SW	2	0	2	70	50	—	
PENIN- SULA.	Lorient ...	30.01	64	E	4	0	30.02	+01	50	45	+1	E	3	0	2	68	48	—	
	Rocheport ...	29.97	65	E	5	0	30.02	+03	48	45	0	E	4	0	2	79	43	—	
	Belfort ...	30.08	45	SW	2	0	?	?	44	41	+4	N	2	0	*	52	37	—	
	Lyons ...	30.04	54	N	1	0	30.10	0.0	43	41	+4	ENE	1	0	*	62	39	—	
	Nice ...	29.88	62	E	3	0	29.94	-11	57	56	+7	E	4	0	4	73	55	—	
	Perpignan ...	29.93	64	NE	2	0	30.03	+06	57	54	0	S	0	0	*	68	53	—	
	Biarritz ...	29.83	73	E	4	0	29.94	+17	60	57	+5	ENE	2	0	1	99	?	—	
	Corunna ...	29.80	60	SW	3	0	29.86	+06	58	56	-6	ENE	4	0	?	64	55	0.39	
	Lisbon ...	29.80	60	SW	3	0	29.86	+06	58	56	-6	ENE	4	0	?	64	55	0.39	

For Explanation of Columns, see bottom of p 4.

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



# WEATHER CHARTS

for 8 a.m. on

Thursday, 19<sup>th</sup> September,

1889.

## BAROMETER, WIND AND SEA.

### EXPLANATION OF MAP

**BAROMETER**—Isobars are drawn for each tenth of an inch.

Changes since previous morning are stated in words.

**WIND**—Arrows shew the prevalent winds. They fly with the wind and their barbs and feathers refer to force thus—

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

**SEA DISTURBANCE**—Where considerable, is shewn thus:

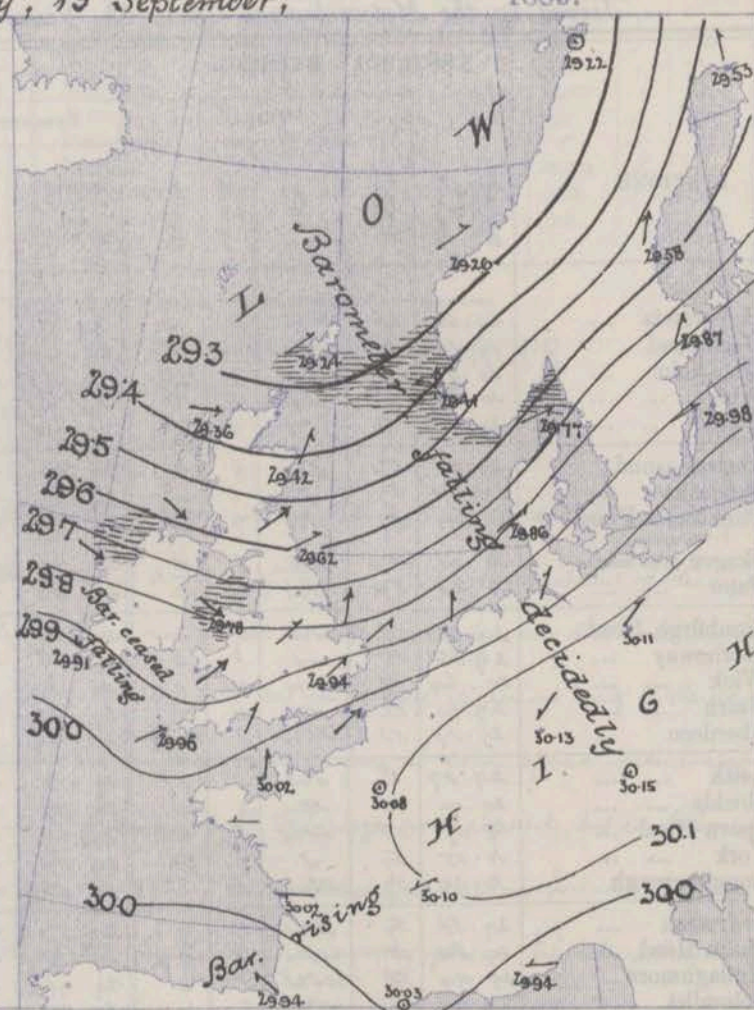
▨ = Rough. ▨ = High.

## MEAN HEIGHT OF THE BAROMETER

at 8.0 a.m. for the month of September.

During the 15 Years: 1871—1885.

STATIONS.	MEAN READINGS.
Sumburgh Head .....	29.766
Stornoway .....	29.780
Wick .....	29.793
Nairn .....	29.809
Aberdeen .....	29.819
Leith .....	29.846
Shields .....	29.869
York .....	29.905
Loughborough .....	29.924
Ardrossan .....	29.850
Donaghadee .....	29.869
Holyhead .....	29.894
Liverpool .....	29.899
Parsonstown .....	29.904
Valencia .....	29.917
Roche's Point .....	29.915
Pembroke .....	29.913
Sally .....	29.943
Jersey .....	29.955
Hurst Castle .....	29.960
Dover .....	29.941
LONDON .....	29.945
Oxford .....	29.935
Cambridge .....	29.931
Yarmouth .....	29.916



## 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.

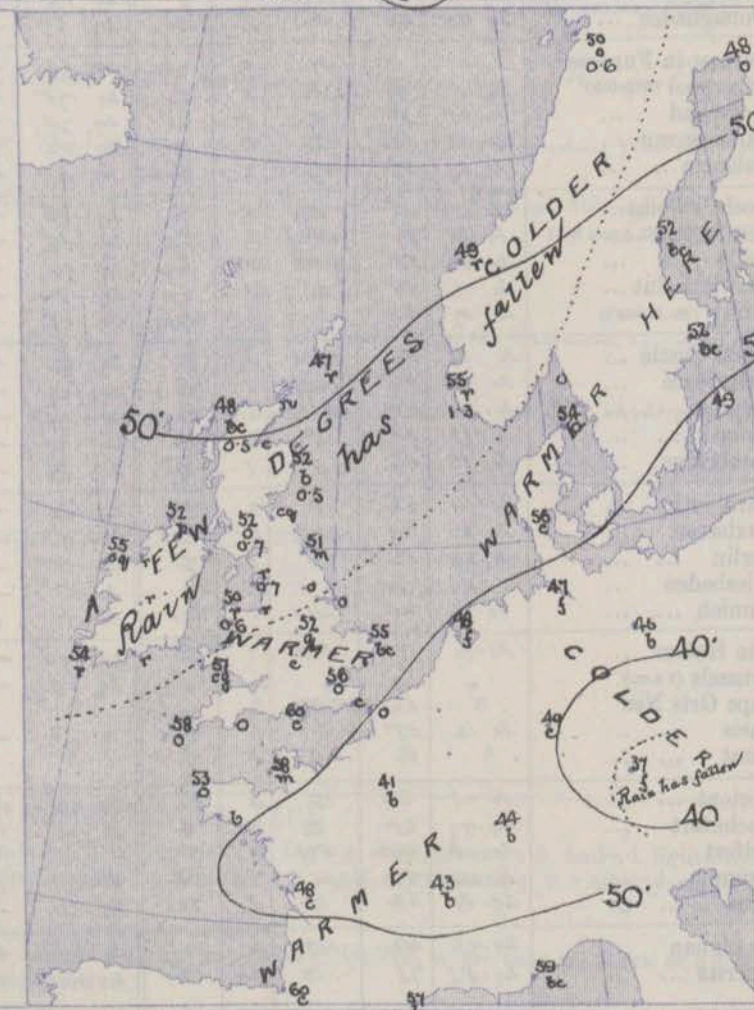
**RAINFALL**—A dotted line separates the districts in which rain has fallen from those where there has been none. Falls of 0.5 in. or more, are quoted in figures.

### 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	46.3	50.9	49.2	3.40
Stornoway .....	56.1	45.7	51.1	49.8	4.13
Wick.....	57.6	45.5	51.8	49.9	2.66
Nairn .....	59.0	46.8	51.2	48.8	2.73
Aberdeen .....	59.2	46.7	52.1	49.8	3.22
Leith.....	62.2	47.6	53.2	50.8	2.47
Shields .....	59.9	49.3	53.1	51.1	2.58
York .....	63.3	47.3	52.8	51.0	2.98
Loughborough .....	65.0	47.9	54.3	52.4	3.06
Ardrossan .....	59.7	49.6	53.5	51.3	3.87
Donaghadee.....	59.6	48.8	53.3	52.1	3.22
Holyhead.....	60.6	52.8	55.7	53.5	3.35
Liverpool .....	61.2	50.9	54.5	51.9	3.56
Parsonstown .....	61.6	47.5	53.1	51.1	3.49
Valencia .....	61.7	51.5	58.3	53.9	4.87
Roche's Point .....	61.9	51.0	55.4	53.2	4.39
Pembroke.....	60.2	53.1	56.2	53.8	3.89
Sally .....	61.8	54.8	58.4	56.2	3.69
Jersey .....	65.2	54.9	59.8	57.1	3.51
Hurst Castle .....	64.2	52.2	57.2	55.8	3.35
Dover .....	62.9	53.0	57.9	55.3	2.86
LONDON .....	66.3	49.4	55.9	53.6	2.59
Oxford.....	63.8	49.1	54.2	52.3	2.91
Cambridge .....	65.5	48.1	54.4	52.9	2.48
Yarmouth .....	62.0	51.1	56.2	54.4	3.17

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





# GENERAL SITUATION AT 8 A.M.

## PRESSURE

Highest, 30.0 in. to 30.1 in. and more, over Germany and France, Apparently, 30.0 in. and more, off our southwestern coasts.  
 Lowest, 29.3 in. and less, off the coast of Norway and to the northward of Bumburgh Head, 29.9 in. and less, over the south of Portugal.  
 Gradient rather steep over the northern half of our islands, the North Sea and Scandinavia, slight over France and Germany.  
 Barometer falling except in the southwest of Ireland, where fall has ceased since 7 a.m. Fall is greatest (nearly 0.6 in.) in the north and east of Scotland.

## TEMPERATURE

Highest, 60° at Biarritz, Hurst Castle, and Tumpers, 59° at Nice, 58° at Lisbon, Jersey and Scilly, 57° at Rocherpoint and 56° in London.  
 Lowest, 37° at Munich, 40° at Nicotodon, 41° at Paris, 43° at Lyons, 44° at Belfast, and 45° at Berlin.  
 Paris is therefore 15° colder this morning than London, and 3° colder than Bonn. The change in temperature reported this morning are irregular.

## WIND

Blows a gale from the S.W. in the south of Norway. It is moderate to strong from S.W. over the North Sea and the greater part of England, and from W. to W.N.W. in Ireland and Scotland. It is moderate E. in the west and south of France and at Lisbon.

## WEATHER

Fine and bright over Spain, France and North Germany, foggy at Munich.  
 Cloudy and squally over the British Isles and their neighbourhood, with rain at many of the western and northern stations. The fall has been large in some parts of those regions.

## SEA

Rather rough to moderate on our western and northern coasts, slight or smooth in the south and east.

## PROBABLE CHANGES IN SYSTEM NOW PREVALENT

The barometer has ceased falling at Valencia since 7 a.m., and it seems probable that as the disturbance in the north passes off the wind will shift to the N.W.<sup>wd</sup> over England, and after some sharp showers the weather will clear again temporarily, with a fall of temperature at night.

## FORECASTS

For the 24 hours ending at NOON on 20<sup>th</sup> SEPT. 1889.

### DISTRICTS.

### FORECASTS.

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

W<sup>nd</sup> and NW<sup>nd</sup> winds, strong and squally to moderate; rain at times, bright intervals.

SW<sup>nd</sup> to NW<sup>nd</sup> winds, fresh; gusty, changeable, rain at times.

### DISTRICTS.

### FORECASTS

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

Same as No 0 and 1

Same as No 5.

NW<sup>nd</sup> to SW<sup>nd</sup> winds, fresh or strong to moderate; changeable, showery.

### WARNINGS

NONE ISSUED.

No's.—The South Cone, point downwards (↓), means that gales, or strong winds, are probable at first from the Southward (from S.E. round by S. to N.W.). Should it appear likely that a gale beginning from between W. and N.W. is likely to veer towards N. or N.E., the North Cone is hoisted in preference to the South Cone.  
 The North Cone, point upwards (↑), means that gales, or strong winds, are probable, at first from the Northward (from N.W. round by N. to S.E.). Should it appear likely that a gale beginning from between E. and S.E. is likely to veer towards S. or S.W., the South Cone is hoisted in preference to the North Cone.



# YESTERDAY'S 2 P.M. REPORTS.

	Bar:	Ther:		Wind		Wea:	Sea			Bar:	Ther:		Wind		Wea:	Sea:	
		D	W	D	F						D	F					
Skudesnaes ...	29.97	58	55	S	7	0	5			Holyhead ...	30.12	60	53	SW	4	6	3
Sumburgh Head ...	29.67	52	50	SW	5	7	5			Valencia ...	30.10	61	55	SE	4	c	4
Stornoway ...	29.70	58	58	SW	5	0	4			Scilly ...	30.09	61	55	SE	5	bc	5
Aberdeen ...	29.87	56	51	SW	4	0	3			Jersey ...	30.11	65	55	SE	5	bc	4
Shields ...	30.02	63	56	SEW	4	c	2			Dungeness ...	30.17	63	54	SE	2	b	1
Ardrossan ...	29.97	57	54	SEW	4	0	2			London ...	30.17	64	54	SE	3	b	2
Malin Head ...										Yarmouth ...	30.18	59	54	SE	3	b	3
Mullaghmore ...	30.00	60	57	SW	4	0	3			Rochefort ...	30.00	76	51	E	5	b	2
Belmullet ...	30.00	58	53	WSW	5	c	4										

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

The reports for yesterday morning showed that while the highest pressures of all, 30.3 ins. and upwards, were found in the neighbourhood of Moscow a long and broad anticyclonic band, in which readings exceeded 30.1 ins. extended from Central Russia across the Baltic and Central Europe to England and the south of Ireland. The lowest pressures 29.7 ins. and less, were found in a large area lying to the northward of our Islands, but a well marked depression, with readings below 29.8 ins. was shown over Southern Austria. The wind was light to fresh from the SW<sup>rd</sup> over nearly the whole of Northern Europe, but moderate from E. over the Mediterranean, the Bay of Biscay, and south of England. Over Austria a cyclonic circulation was shown round the depression noticed in that region, while in Spain the wind was light and very variable. Rain was falling in Austria as well as in the extreme northwest of our Islands and dull weather prevailed in the west of Norway, the extreme north of Russia, and the greater part of Spain. Elsewhere, however, the sky was mostly clear. Temperature had risen a little in Scandinavia and Denmark, as well as in Spain and the west of France, but fallen in most other localities; readings ranged from a little above 70° at some of the Spanish and Mediterranean stations to 40° or less over Central Russia and some parts of Germany and Austria. The highest individual readings were 72° at Bilbao and Barcelona, 71° at Algiers, 69° at Laibach and Udine, 64° at Lisbon, 63° at Langunair and 62° at Cagliari, the lowest were 36° at Moscow, 38° at Munich, 35° at Riga and Lyons, 40° at Kiev, Lemberg, Breslau, Belfast, and Paris, and 41° at Poznań.

In the course of the day the barometer fell in nearly all parts of Northwestern Europe, and the low pressure area to the northward of our Islands became somewhat more pronounced. Freshening SW<sup>rd</sup> winds and rain set in over all our more northern 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, is £1 per annum, payable in advance.



# DAILY WEATHER REPORT.

for FRIDAY 20<sup>TH</sup> SEPT

1889.

Issued by the Meteorological Office, 63, Victoria Street, London. R. H. SCOTT, Secretary.

Issued by the Meteorological Office, 63, 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.	Difference from 8 a.m. yesterday.	SHADE TEMP.			WIND.		Sea. (0 to 2.)	SHADE TEMP.		Amount of Rainfall.		
			Direc.	Force. (0 to 12.)				Dry.	Wet.	Difference from 8 a.m. yesterday.	Direc.	Force. (0 to 12.)		Max.	Min.			
SCANDINAVIA.																		
Haparanda ...	29.45	52	SW	9	C	29.50	-2.5	49	47	-2	S	4	0	*	61	48	0.16	
Hernösand ...	29.61	51	SE	4	O	29.56	-2.5	50	48	-2	SE	6	0	*	61	45	0.08	
Stockholm ...	29.73	48	S	4	C	29.58	-1.60	50	48	+1	SE	4	0	*	57	45	—	
Wisby ...	29.12	48	X	0	O	29.03	-1.19	52	47	+2	SE	2	C	1	54	41	0.08	
Bodö ...	29.03	47	X	0	C	28.97	-2.29	48	45	-1	SE	4	bc	5	52	43	0.20	
Christiansund	29.23	50	W	4	C	29.15	-2.6	49	46	-6	WNW	4	C	4	53	46	0.25	
Skudesnaes ...	29.25	54	SW	9	T	29.14	-2.5	49	45	-7	W	2	C	5	57	48	0.43	
Christiana Fjord (Færder)	29.34	52	SW	7	T	29.18	-2.5	51	47	-3	NW	1	C	2	53	45	0.35	
Skagen (The Scaw)	29.44	53	SW	6	T	29.23	-2.63	49	48	-7	WSW	2	bc	*	57	45	1.18	
Fanö ...	29.09	47	WSW	4	F	29.19	-0.5	45	43	-2	NW	4	C	5	52	42	0.36	
Sumburgh Head	29.33	48	W	4	C	29.40	+0.4	44	44	-4	NW	5	P	4	52	41	0.50	
Stornoway ...	29.24	44	NW	6	T	29.36	+0.2	44	43	-4	NW	4	T	2	52	41	0.25	
Wick ...	29.34	44	SW	4	C	29.41	+0.2	44	43	-6	SW	2	C	2	54	41	0.20	
Nairn ...	29.37	47	W	3	C	29.40	-0.2	47	43	-5	W	2	C	3	57	41	—	
Aberdeen ...	29.46	52	SW	4	C	29.44	-0.8	48	43	-6	W	2	C	*	58	41	0.08	
Leith ...	29.51	49	WSW	2	C	29.45	-1.7	49	46	-2	WSW	4	C	2	56	41	—	
Shields ...	29.58	54	WSW	6	O	29.54	-2.3	50	47	-3	WNW	6	C	5	57	46	0.21	
Spurn Head ...	29.59	54	W	2	bc	29.53	-1.8	50	46	-3	WNW	2	C	*	56	42	0.04	
York ...	29.65	53	W	2	C	29.61	-2.0	48	46	-4	W	3	C	*	53	44	0.26	
Loughborough	29.52	50	W	5	cgy	29.51	-0.6	49	46	-3	WNW	5	bcgy	4	57	45	0.12	
Ardrossan ...	29.53	52	NW	8	cgy	29.58	0.0	48	45	-4	NW	6	bcgy	4	57	43	0.05	
Malin Head ...	29.68	53	WNW	7	cgy	29.67	-0.4	51	47	-4	WNW	7	cgy	6	57	47	0.11	
Mullaghmore ...	29.73	51	WNW	6	bc	29.75	0.0	50	46	-5	WNW	8	bcgy	*	59	48	0.19	
Belmullet ...	29.62	49	WSW	4	C	29.61	-0.7	47	45	-3	WNW	5	C	3	57	45	0.04	
Donaghadee ...	29.57	52	W	5	C	29.52	-1.19	50	47	-2	NW	6	of	*	57	47	0.36	
Barrow-in-Furness	29.64	53	W	5	C	29.59	-1.16	52	46	-1	W	5	bc	4	58	47	0.36	
Liverpool (Bidston)	29.67	53	NW	5	cgy	29.67	-1.1	51	48	+1	WNW	6	bcgy	5	57	48	0.21	
Holyhead ...	29.70	53	SW	1	C	29.77	-0.5	47	44	-3	W	2	C	*	58	44	0.03	
Parsonstown ...	29.87	56	WNW	3	omgy	29.89	-0.2	55	51	+1	WNW	4	cgy	4	60	51	0.04	
Valencia ...	29.82	57	WNW	5	C	29.86	0.0	52	48	-5	WNW	4	bc	4	59	50	0.08	
Roche's Point...	29.76	56	WNW	5	C	29.77	-0.9	53	47	-4	WNW	6	bcgy	4	59	52	0.47	
Pembroke (St. Ann's Hd.)	29.85	57	WNW	6	omgy	29.85	-1.1	57	54	-1	NW	5	C	5	61	53	0.03	
Scilly ...	29.80	54	WNW	3	F	29.81	-1.3	53	49	-4	WNW	3	C	2	58	48	0.17	
Prawle Point ...	29.86	61	W	4	og	29.82	-2.0	59	53	+1	WNW	3	cgy	3	65	58	0.04	
Jersey (St. Aubin's)	29.75	58	W	6	omgy	29.74	-2.2	53	52	-7	WNW	4	bc	4	63	51	0.24	
Hurst Castle ...	29.75	59	W	6	T	29.65	-3.2	53	50	-7	WNW	4	bc	3	64	48	0.16	
Dungeness ...	29.70	51	SW	3	O	29.66	-2.8	51	46	-5	W	3	C	*	61	46	0.14	
London ...	29.70	51	WNW	3	C	29.67	-2.3	49	45	-3	W	4	C	*	59	44	0.16	
Oxford ...	29.71	52	S	2	T	29.60	-2.6	50	47	-4	W	3	C	*	59	43	0.15	
Cambridge ...	29.64	52	WSW	4	O	29.51	-3.8	49	46	-6	WNW	5	C	4	57	44	0.16	
Yarmouth ...	29.76	49	SW	6	O	29.52	-3.6	48	46	+1	W	3	C	*	58	?	0.46	
Cuxhaven ...	29.85	53	SW	3	C	29.41	-7.0	48	46	+3	S	3	T	*	61	?	0.04	
Berlin ...	*	*	*	*	*	29.57	-3.6	52	49	+2	SW	4	T	*	57	?	0.08	
Wiesbaden ...	29.96	42	SE	2	C	29.71	-4.4	51	44	+14	SW	6	T	*	52	37	0.04	
Munich ...	29.59	58	SW	5	T	29.41	-5.3	53	48	+5	WNW	4	O	4	57	?	0.32	
The Helder ...	*	60	WSW	5	O	29.60	-4.6	52	50	+3	WSW	3	O	*	58	47	0.20	
Brussels (9 a.m.)	29.88	57	SW	1	O	29.75	-2.3	53	52	+12	WSW	2	O	*	64	?	0.04	
Cape Gris Nez	?	62	NW	4	O	?	?	59	55	+6	WNW	4	C	4	68	52	0.20	
Paris ...	29.97	61	WNW	3	O	29.91	-1.1	59	58	+9	NW	3	O	2	68	48	—	
Brest ...	30.00	64	WNW	3	C	29.97	-0.5	62	61	+14	WNW	5	O	2	79	?	—	
Lorient ...	29.94	56	WNW	1	C	29.79	-2.3	53	47	+9	W	2	P	*	58	40	—	
Roche fort ...	29.95	61	SE	1	bc	29.87	-2.3	56	51	+13	SE	2	C	*	68	?	—	
Belfort ...	30.00	57	S	2	C	29.82	-1.2	55	52	-4	SE	4	O	2	66	52	—	
Lyons ...	30.01	61	X	0	C	29.93	-1.0	56	54	-1	SW	1	C	*	70	45	—	
Nice ...	29.97	68	SE	2	C	29.98	+0.4	63	62	+3	SW	4	O	2	79	?	—	
Perpignan ...	29.95	67	SW	*	C	30.01	+1.5	63	61	+5	NNE	3	C	2	72	?	—	
Biarritz ...	29.95	67	SW	*	C	30.01	+1.5	63	61	+5	NNE	3	C	2	72	?	—	
Corunna ...	29.95	67	SW	*	C	30.01	+1.5	63	61	+5	NNE	3	C	2	72	?	—	
Lisbon ...	29.95	67	SW	*	C	30.01	+1.5	63	61	+5	NNE	3	C	2	72	?	—	
FRANCE AND NETHERLANDS.																		
GERMANY.																		
BRITISH ISLANDS.																		
SCANDINAVIA.																		
PENIN. SULA.																		

For Explanation of Columns, see bottom of p 4.

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



# WEATHER CHARTS

for 8 a.m. on

Friday, 20<sup>th</sup> September,

1889.

## BAROMETER, WIND AND 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:

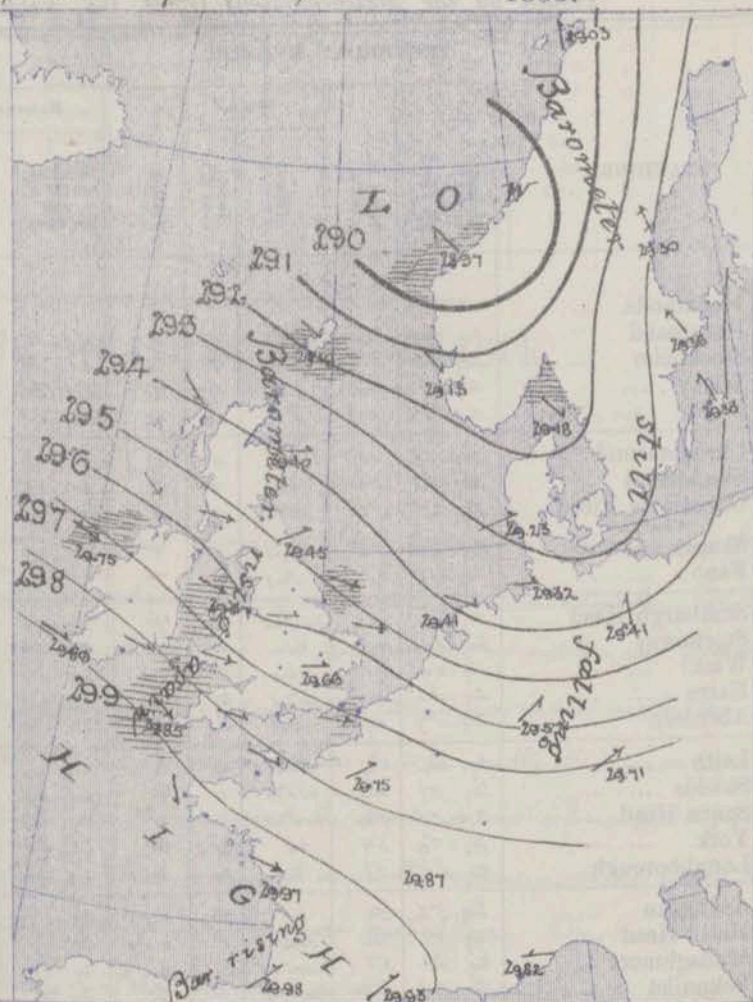
☼ = Rough. ☼ = High.

## MEAN HEIGHT OF THE BAROMETER

at 8.0 a.m. for the month of September.

During the 15 Years: 1871—1885.

STATIONS.	MEAN READINGS.
Sumburgh Head .....	29.766
Stornoway .....	29.780
Wick .....	29.793
Nairn .....	29.809
Aberdeen .....	29.819
Leith .....	29.846
Shields .....	29.869
York .....	29.905
Loughborough .....	29.924
Ardrossan .....	29.859
Donaghadee .....	29.869
Holyhead .....	29.894
Liverpool .....	29.899
Parsonstown .....	29.904
Valencia .....	29.917
Roche's Point .....	29.915
Pembroke .....	29.913
Sally .....	29.943
Jersey .....	29.955
Hurst Castle .....	29.960
Dover .....	29.941
LONDON .....	29.945
Oxford .....	29.935
Cambridge .....	29.931
Yarmouth .....	29.916



## 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.

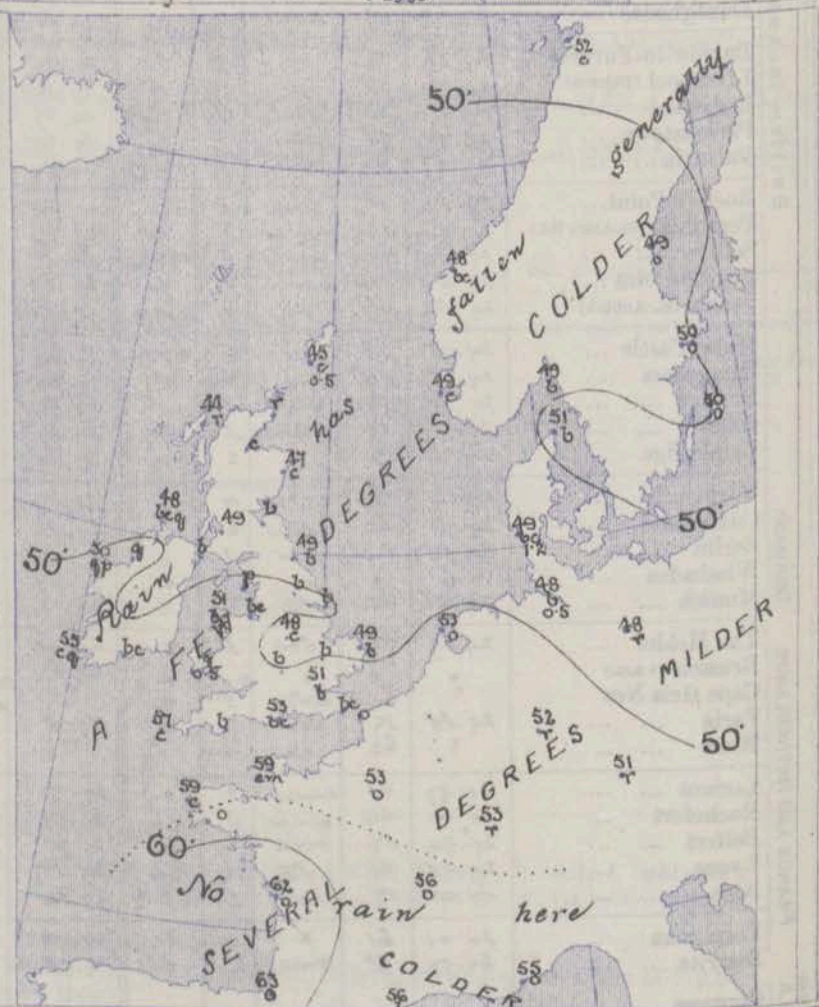
**RAINFALL**—A dotted line separates the districts in which rain has fallen from those where there has been none. Falls of 0.5 in. or more, are quoted in figures.

### 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	46.3	50.9	49.2	3.46
Stornoway .....	56.1	45.7	51.1	49.8	4.13
Wick .....	57.6	45.5	51.8	49.9	2.66
Nairn .....	59.0	46.8	51.2	48.8	2.73
Aberdeen .....	59.2	46.7	52.1	49.8	3.22
Leith .....	62.2	47.6	53.2	50.8	2.47
Shields .....	59.9	49.3	53.1	51.1	2.58
York .....	63.3	47.3	52.8	51.0	2.98
Loughborough .....	65.0	47.9	54.3	52.4	3.06
Ardrossan .....	59.7	49.6	53.5	51.3	3.87
Donaghadee.....	59.6	48.8	53.3	52.1	3.22
Holyhead.....	60.6	52.8	55.7	53.6	3.35
Liverpool .....	61.2	50.9	54.5	51.9	3.56
Parsonstown .....	61.6	47.5	53.1	51.1	3.49
Valencia .....	61.7	51.5	56.3	53.9	4.87
Roche's Point .....	61.9	51.0	55.4	53.2	4.39
Pembroke.....	60.2	53.1	56.2	53.8	3.89
Sally .....	61.8	54.8	58.4	56.2	3.60
Jersey .....	65.2	54.9	59.8	57.1	3.51
Hurst Castle .....	64.2	52.2	57.2	55.8	3.35
Dover .....	62.9	53.0	57.9	55.3	2.86
LONDON .....	60.3	49.4	55.9	53.6	2.59
Oxford .....	63.8	49.1	54.2	52.3	2.91
Cambridge .....	65.5	48.1	54.4	52.9	2.48
Yarmouth .....	62.0	51.1	56.2	54.4	3.17

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





# GENERAL SITUATION AT 8 A.M.

PRESSURE	Highest, 30.0 in. and upwards, in Portugal. Lowest, 29.0 in. and less, in a large depression lying over the west of Norway. Gradients moderate. Barometer rising a little in our Islands, but falling at most of the Continental stations.
TEMPERATURE	Highest, 63° at Biarritz and Lisbon, 62° at Rochefort, 59° at Jersey, Brest, Lorient, and 57° at Bally. Lowest, 44° at Stenoway, Nick and Naarn, 43° at Lumburg Head, 47° at Aberdeen, Donaghadee, and Portmarnock. The maxima registered over our Islands yesterday were below 60° in all but the extreme southern districts.
WIND	Moderate to strong from the W <sup>nd</sup> or NW <sup>nd</sup> over our Islands, the North Sea, and the west and north of France. Light or moderate from the SW <sup>nd</sup> over Germany and the east and south of France. Strong from the S <sup>nd</sup> in Sweden; light or moderate from SE. in the west of Norway.
WEATHER	Rainy in the extreme north of Scotland and also in Germany; showery at some of our northwestern stations. Fine in most other localities, but dull in the Netherlands and south of France. Rain fell generally yesterday, the largest amounts being 1.2 in. at Taux, and 0.5 in. at Cuthbert, Stenoway and Portmarnock.
SEA	Rough at Mullaghmore, and rather rough in several of the more exposed parts of our coasts.

## PROBABLE CHANGES IN SYSTEM NOW PREVALENT

The barometer on our extreme western coasts is rather unsteady, and it is not improbable that in the course of the ensuing twenty-four hours further depressions will approach our Islands from the Atlantic.

## FORECASTS

For the 24 hours ending at NOON on 21<sup>ST</sup> SEPT 1889.

### DISTRICTS.

### FORECASTS.

0	SCOTLAND NORTH	W <sup>nd</sup> to SW <sup>nd</sup> winds, moderate or fresh; changeable, some rain.
1	SCOTLAND EAST	W <sup>nd</sup> and SW <sup>nd</sup> winds, moderate; changeable, some showers.
2	ENGLAND N.E.	
3	ENGLAND EAST	W <sup>nd</sup> winds, fresh; fair generally, but local showers.
4	MIDLAND COUNTIES	
5	ENGLAND SOUTH	

### DISTRICTS.

### FORECASTS

6	SCOTLAND WEST	NW <sup>nd</sup> to SW <sup>nd</sup> winds, fresh or strong, fair at first, but unsettled later, with some rain.
7	ENGLAND N.W.	
8	ENGLAND S.W.	
9	IRELAND NORTH	
0	IRELAND SOUTH	

### WARNINGS

NONE ISSUED.

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



# YESTERDAY'S 2 P.M. REPORTS.

Bar: Ther: Wind Wea: Sea								Bar: Ther: Wind Wea: Sea							
		D	W	D	F					D	W	D	F		
Skudesnaes ...	29.29	55	50	SW	6	0	6	Holyhead ...	29.71	56	53	W	5	Cg	5
Sumburgh Head ...	29.13	48	44	SW	3	C	5	Valencia ...	29.89	57	55	WNW	4	Cm	4
Stornoway ...	29.34	48	47	W	5	Chf	5	Scilly ...	29.98	60	59	WSW	5	0	5
Aberdeen ...	29.39	53	45	W	4	Cg	3	Jersey ...	29.94	63	54	WSW	3	Om	3
Shields ...	29.53	55	54	SW	4	p	2	Dungeness ...	29.82	60	58	SW	6	0	4
Ardrossan ...	29.53	50	47	W	5	Cg	4	London ...	29.80	61	55	WSW	3	0	*
Malin Head ...	29.58	54	49	WNW	7	C	4	Yarmouth ...	29.74	57	53	SW	4	0	3
Mullaghmore ...	29.71	52	49	WNW	7	0	6	Rochefort ...	30.04	71	61	WNW	2	0	2
Belmullet ...	29.80	55	49	WNW	4	C	*								

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

The reports for yesterday morning showed that pressure was giving way very decidedly over Northwestern and Northern Europe, whilst it was changing very little in the south, and that readings varied from 30.00 in: to 30.15 in: over France and Germany, and from 30.2 in: and more, in the neighbourhood of Moscow, to 29.3 in: and less, off the west of Norway, and to 29.8 in: and less, in a shallow depression over Southern Russia. SW to S winds, moderate to strong in force prevailed over England, and the North Sea, Denmark and Scandinavia, and blew with the force of a gale at Skudesnaes and Lander, while in Ireland and Scotland the wind was veering towards NW, in the west and south of France there was still a moderate breeze from the E. Over Russia, Austria Hungary and the Balkan Peninsula there was an independent cyclonic circulation of moderate winds round the depression noticed in that neighbourhood. The weather was becoming unsettled, squally and showery over the British Isles and Northwestern Europe, there having been a good deal of rain at our western and northern stations, brought by the depression in that region, with every indication of the fall spreading to the more eastern and southern parts of the region later. In Spain, France, and at most of the Baltic stations the sky was yet clear, while over Southeastern Europe there was a great deal of cloud and rain due to the disturbance over Southern Russia. Temperature was changing irregularly; over England, the Baltic and many parts of Russia it was less low than of late, but over Southeastern Europe and many parts of Germany it had fallen. In Algeria and at Malta only were the morning readings above 70°. The highest values at 8 a.m. were 75° at Malta, Sfax, La Calle and Algiers, and 71° at Oran; 68° at Barcelona, 66° at Brindisi, 64° at Cagliari, Tangier, and Brest, 60° at Hurst Castle and Dungeness; the lowest were (1.) 37° at Rumbach, 39° at Le Mans, 38° at Munster, 40° at Wiesbaden, 41° at Paris, and 43° at Lyons; (2.) 39° at Riga, 40° at Lemberg, 41° at Hermannstadt, 42° at Memel and St. Petersburg. Over nearly the whole of the British Islands readings exceeded 50°. During the day the showers spread to all parts of the British Isles as the wind veered to W. and NW, and the barometer showed some tendency to rise over our western stations, while it fell over Northern Europe and the Baltic.

### 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 21<sup>ST</sup> SEPTEMBER. 1889.

Issued by the Meteorological Office, 63, Victoria Street, London. R. H. SCOTT, Secretary.

STATIONS.		YESTERDAY EVENING.					8 A.M. TO DAY.										PAST 24 HOURS.		
		Barometer at 3 <sup>rd</sup> P. and Sea Level.	Temp. in Shade.	WIND.			BAROMETER.		SHADE TEMP.			WIND.			Sea. (0 to 9.)	SHADE TEMP.		Amount of Rainfall.	
				Dirce.	Force. (0 to 12.)	Weather.	Reading at 8 a.m. and Sea Level.	Difference from 8 a.m. yesterday.	Dry.	Wet.	Difference from 8 a.m. yesterday.	Dirce.	Force. (0 to 12.)	Weather.		Max.	Min.		
SCANDINAVIA.																			
Haparanda ...																			
Hernösand ...																			
Stockholm ...																			
Wisby ...																			
Bodö ...	29.20	53	S	4	O	29.27	+0.24	49	44	-5	ESE	4	O	2	55	48	-		
Christiansund	29.09	49	W	1	C	29.12	+0.15	43	42	-5	E	1	C	5	54	39	-		
Skudesnaes ...	29.23	49	WNW	1	O	29.20	+0.05	44	42	-5	E	0	R	3	52	43	0.20		
Christiania Fjord (Fæder)	29.11	53	WNW	2	C	29.09	-0.05	48	44	-1	NNW	4	bc	2	54	46	-		
Skagen (The Scaw)	29.10	50	WNW	1	C	29.08	-0.10	51	48	0	NW	2	C	2	55	48	-1		
Fanö ...	29.23	46	NW	2	C	29.24	+0.01	58	48	+2	NW	4	C		54	45	0.08		
Sumburgh Head	29.26	45	NW	3	C	29.28	+0.09	40	39	-5	N	2	R	4	50	38	0.31		
Stornoway ...	29.51	45	NW	5	bc	29.48	+0.08	42	42	-2	NW	5	R	4	50	38	0.30		
Wick ...	29.38	44	NW	5	C	29.39	+0.01	44	41	0	NW	5	Chp	2	51	38	0.20		
Nairn ...	29.49	45	WNW	2	bc	29.49	+0.08	42	40	-2	WNW	3	C	3	50	38	0.02		
Aberdeen ...	29.44	44	WNW	3	bc	29.46	+0.06	45	41	-2	WNW	3	C	3	53	39	-		
Leith ...	29.48	45	N	3	C	29.53	+0.09	46	42	-2	W	1	bc		56	38	0.02		
Shields ...	29.45	51	W	4	C	29.53	+0.08	43	41	-6	W	2	C	2	55	36	0.04		
Spurn Head ...	29.48	50	W	6	bc	29.55	+0.01	46	44	-4	WNW	5	C	4	55	42	-		
York ...	29.52	49	W	3	C	29.58	+0.05	46	43	-4	WNW	2	C		58	36	-		
Loughborough	29.60	46	W	3	C	29.64	+0.03	49	44	-1	WNW	3	bc		56	38	0.14		
BRITISH ISLANDS.																			
Ardrossan ...	29.50	48	NW	5	bc	29.53	+0.06	49	44	-2	WNW	4	bc	4	57	42	0.21		
Malin Head ...	29.59	49	NNW	7	bc	29.61	+0.02	46	44	-2	NNW	5	bc	3	57	44	0.12		
Mullaghmore ...	29.71	50	NW	7	bc	29.71	+0.04	51	45	0	NW	6	C	5	57	45	0.09		
Belmullet ...	29.79	49	NNW	5	bc	29.76	+0.01	49	46	-1	NW	2	O		53	46	0.17		
Donaghadee ...	29.59	49	NNW	4	C	29.64	+0.03	45	44	-2	W	4	bc	2	54	44	0.03		
Barrow-in-Furness	29.52	49	N	5	C	29.56	+0.04	45	44	-5	NW	4	C		52	43	0.73		
Liverpool (Bidston)	29.59	49	WNW	5	O	29.60	+0.04	49	45	-3	WNW	4	C	4	55	46	0.38		
Holyhead ...	29.64	50	WNW	6	bc	29.68	+0.01	49	45	-2	WNW	6	bc	5	56	47	-		
Parsonstown ...	29.78	49	NW	2	O	29.78	+0.01	49	44	0	SW	2	C		54	42	0.16		
Valencia ...	29.89	54	NW	4	C	29.85	-0.04	53	50	0	WNW	2	O	2	59	50	0.06		
Roche's Point...	29.81	53	NW	5	C	29.84	-0.02	53	48	0	WNW	4	C	4	57	48	0.04		
Pembroke (St. Ann's Hd.)	29.72	53	WNW	6	bc	29.78	+0.01	51	46	-2	NW	5	bc	4	55	49	0.01		
Scilly ...	29.83	57	NW	6	bc	29.85	0.00	53	52	-4	WNW	4	bc	5	59	51	0.06		
Prawle Point ...	29.77	50	WNW	4	bc	29.81	0.00	50	47	-3	WNW	3	C	2	59	48	0.02		
Jersey (St. Aubin's)	29.79	58	WNW	5	C	29.82	0.00	55	50	-4	WNW	4	bc	3	61	51	0.01		
Hurst Castle ...	29.69	55	WNW	5	bc	29.74	0.00	50	48	-3	NW	4	C	3	60	45	-		
Dungeness ...	29.64	53	NNW	5	C	29.65	0.00	49	44	-6	WNW	5	bc	4	61	40	-		
London ...	29.62	49	W	2	C	29.65	-0.01	49	44	-4	NW	2	C		60	41	0.11		
Oxford ...	29.65	47	W	1	bc	29.69	+0.02	46	43	-3	W	3	bc		58	40	0.03		
Cambridge ...	29.61	50	W	2	C	29.65	+0.05	49	44	-3	W	1	C		58	41	0.06		
GERMANY.																			
Yarmouth ...	29.54	51	WNW	4	C	29.54	+0.01	46	44	-3	WNW	5	C	4	57	40	0.07		
Cuxhaven ...	29.35	47	NW	5	C	29.35	+0.01	47	46	-1	SW	1	C		53	47	0.74		
Berlin ...	29.38	46	W	4	C	29.40	-0.01	47	44	-1	W	4	O		57	45	0.12		
Wiesbaden ...	*	*	*	*	*	29.58	+0.01	48	45	-4	W	0	O	*	57	41	0.08		
Munich ...	29.70	48	W	6	bc	29.68	-0.02	45	43	-6	SW	6	O	*	52	41	0.28		
FRANCE AND NETHERLANDS.																			
The Helder ...	29.44	53	NW	3	C	29.44	+0.02	50	47	-3	NW	2	C	3	55	46	0.43		
Brussels (8 a.m.)	*	*	*	*	*	29.58	-0.02	46	45	-6	WNW	1	C	*	55	46	0.20		
Cape Gris Nez	?	53	W	6	O	?	?	48	44	-5	NW	6	bc	6	59	46	-		
Paris ...	29.75	52	SW	2	bc	29.74	-0.01	48	45	-5	W	2	C	*	60	46	0.20		
Brest ...	?	59	NW	4	bc	?	?	57	54	-2	NW	3	O	3	63	52	-		
Lorient ...	29.87	59	NW	4	bc	29.91	0.00	55	50	-4	NW	3	C	2	63	52	-		
Rochefort ...	29.95	56	NW	4	C	29.96	-0.01	57	53	-5	NW	4	C	2	66	52	0.08		
Belfort ...	29.75	50	W	2	O	29.72	-0.07	48	43	-5	NW	2	C	*	59	45	0.39		
Lyons ...	29.86	52	S	1	O	29.82	-0.05	52	49	-4	WNW	2	C	*	74	50	0.20		
Nico ...	29.57	74	SW	6	C	29.59	-0.03	65	52	+10	SW	5	C	4	81	?	-		
Perpignan ...	29.82	77	NW	3	C	29.87	-0.06	62	57	+6	NW	3	O	*	86	61	-		
Biarritz ...	29.94	68	WNW	3	C	29.96	-0.02	59	57	-4	NNW	5	O	3	73	57	0.20		
PENINSULA.																			
Corunna ...																			
Lisbon ...	29.99	71	NW	3	C	29.99	-0.02	66	63	+3	NNW	2	C	2	77	?	-		

For Explanation of Columns, see bottom of p. 4.

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



# WEATHER CHARTS

for 8 a.m. on

Saturday, 21<sup>st</sup> September,

1889.

## BAROMETER, WIND AND 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 forces 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:

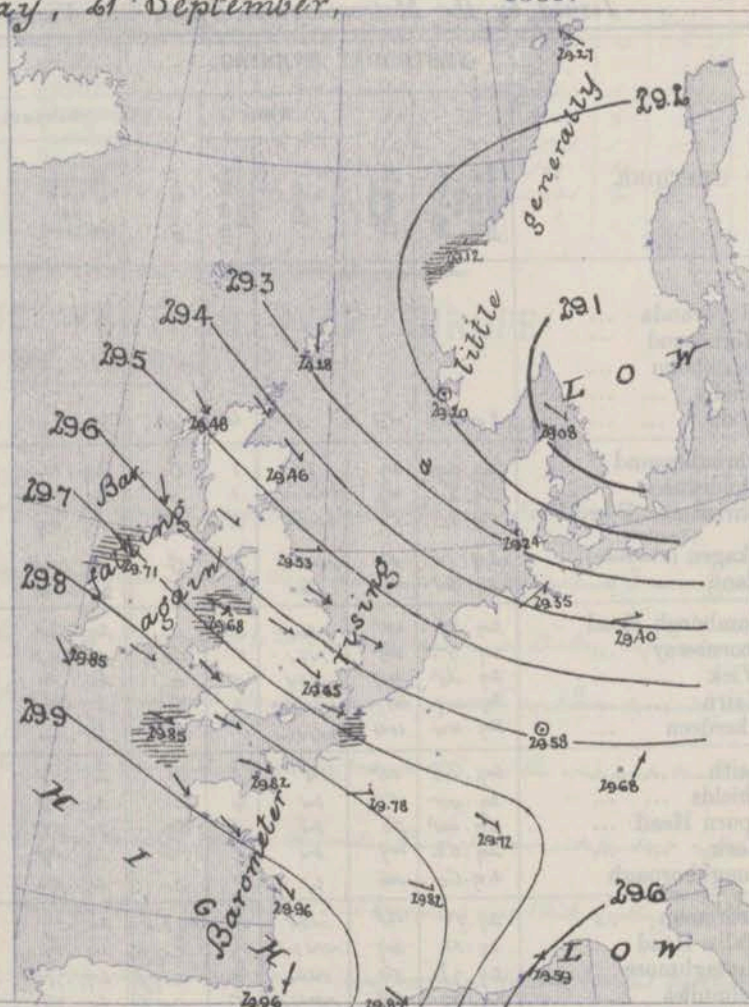
— Rough. — High.

### MEAN HEIGHT OF THE BAROMETER

at 8.0 a.m. for the month of September.

During the 15 Years: 1871—1885.

STATIONS.	MEAN READINGS.
Samburgh Head .....	29.766
Sarnoway .....	29.780
Wick .....	29.793
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Sally .....	29.943
Jersey .....	29.955
Hurst Castle .....	29.960
Dover .....	29.941
LONDON .....	29.945
Oxford .....	29.935
Cambridge .....	29.931
Yarmouth .....	29.918





# GENERAL SITUATION AT 8 A.M.

## PRESSURE

Highest, 29.9 ins. and upwards, over the Bay of Biscay, Spain, and the southwest of France.  
Lowest, 29.1 ins. and less, in the neighbourhood of the Skagerrak. The Swedish Reports have not yet arrived.  
Gradients moderate. Barometer rising a little in most places, but falling again in the extreme west of our islands.

## TEMPERATURE

Highest, 66° at Lister, 65° at Ness, 62° at Berquinar, 59° at Biscay, and 57° at Brest and Rochefort.  
Lowest, 40° at Lumburg H<sup>o</sup>, 42° at Lonsbury and Nain, 43° at Christiansund and Shields, and 44° at Skudesnæs and Utsik.  
The maxima registered over our islands yesterday, were below 60° at all but our extreme southern stations.

## WIND

Light to fresh from the West or NW<sup>nd</sup> in nearly all parts of Western Europe, but NNE<sup>ly</sup> at Biarritz and Lister and E<sup>ly</sup> in the west of Norway.

## WEATHER

Showery at some of our northern stations, and rainy in the north of Scotland, as well as at Skudesnæs and Cuxhaven.  
Fine in most other localities, but dull in the west of Ireland and also in Bremen.  
Showers fell yesterday in nearly all parts of the United Kingdom, and lightning was seen at Shields and Cuxhaven.

## SEA

Rough at Cape Fin Rey and rather rough at Christiansund, Mullaghmore, Holyhead and Bally, but moderate to smooth elsewhere.

## PROBABLE CHANGES IN SYSTEM NOW PREVALENT

The new fall of the barometer which has set in over our extreme western coasts seems to point to the approach of further disturbances from the Atlantic. The wind is therefore likely to back to the SW<sup>nd</sup> in the west with a renewal of unsettled weather.

# FORECASTS

For the 24 hours ending at NOON on 22<sup>nd</sup> SEPT 1889.

## DISTRICTS.

## FORECASTS.

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

NW<sup>ly</sup> winds, backing later; changeable, some showers.

NW<sup>ly</sup> and W<sup>ly</sup> winds, moderate; fair generally, but perhaps local showers.

## DISTRICTS.

## FORECASTS



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

NW<sup>ly</sup> winds, backing later; fair to showery.

Wind backing to the SW<sup>nd</sup>; fair to dull and some rain

## WARNINGS

NONE ISSUED.

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



# YESTERDAY'S 2 P.M. REPORTS.

	Bar:	Ther:		Wind		Wea:	Sea		Bar:	Ther:		Wind		Wea:	Sea.
		D	W	D	F					D	F				
Skudesnaes ...	29. 21	52	46	WNW	4	C	4	Holyhead ...	29. 65	54	49	WNW	5	cq p	5
Sumburgh Head ...	29. 23	48	44	NW	4	C	5	Valencia ...	29. 90	53	50	WNW	5	cng	5
Stornoway ...	29. 44	49	46	NW	5	bc	4	Scilly ...	29. 85	58	54	NW	6	cq	5
Aberdeen ...	29. 42	47	43	WNW	3	c p	3	Jersey ...	29. 83	60	52	WNW	5	C	4
Shields ...	29. 46	55	50	W	4	C kp	2	Dungeness ...	29. 65	58	50	WNW	5	C	4
Ardrossan ...	29. 51	47	44	NW	5	bc	4	London ...	29. 66	56	49	WNW	4	bc p	4
Malin Head ...	29. 56	51	46	NW	7	cq p	5	Yarmouth ...	29. 53	56	48	WNW	5	C	4
Mullaghmore ...	29. 69	50	47	WNW	6	cq p	5	Rochefort ...	29. 99	59	50	WNW	4	o	2
Belmullet ...	29. 77	52	48	WNW	5	o p q	*								

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

The reports for yesterday morning showed that pressure ranged from 30.0 ins. and more over the central and eastern parts of Russia, and from between 29.90 ins. and 30.1 ins. over the Bay of Biscay and Spain, to rather below 29.0 ins. in a depression, the centre of which lay near Christiansund and to 29.6 ins. and less in a secondary disturbance over Hungary and Western Russia. NW winds, moderate to strong in force were consequently prevalent over the United Kingdom, North Sea, and north and west of France, while over North Germany, the Baltic and Scandinavia it was S<sup>ly</sup>: light to strong in force generally, but blowing a gale at Helsingland. Over southern and south-western Europe and the Mediterranean the wind was very variable. The weather was changeable in the region covered by the NW wind — fine and bright in some places, cloudy, squally, and showery in others, while in the region of the S<sup>ly</sup> wind it was dull generally, with rain in many places. Temperature had risen decidedly over France and Germany, and to a smaller extent over Southern and South-eastern Europe, fallen over the British Isles and the North Sea, and readings were comparatively uniform over the northern and eastern countries. Morning values of 70° and more were still recorded over Algeria, Malta and the East coast of Spain, but over the greater part of Europe and the northern half of the British Isles they were all below 50°. The highest individual readings were 76° at Barcelona, 72° at La Coruña, 71° at Malaga, 67° at Bilbao and 62° at Rochefort; the lowest were 42° at Vienna, Kiefakwasser, Lemberg, Kiev, Moscow and Riga, 44° in the north of Scotland and 45° at Sumburgh H<sup>d</sup> and Archangel.

During the day cold showers fell in many parts of our Islands and their neighbourhood, the fall in some places being large, and lightning was observed locally.

### 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 22<sup>nd</sup> SEPT<sup>r</sup> 1889.  
Issued by the Meteorological Office, 63, Victoria Street, London. R. H. SCOTT, Secretary.

STATIONS.		YESTERDAY EVENING.					8 A.M. TO DAY.										PAST 24 HOURS.		
		Barometer at 3 p.m. and Sea Level.	Temp. in Shade.	WIND.		Weather.	BAROMETER.		SHADE TEMP.			WIND.		Sea (0 to 2).	SHADE TEMP.		Amount of Rainfall.		
				Dir.	Force. (0 to 12.)		Reading at 3 p.m. and Sea Level.	Difference from 8 a.m. yesterday.	Dry.	Wet.	Difference from 8 a.m. yesterday.	Dir.	Force. (0 to 12.)		Weather.	Max.		Min.	
SCANDINAVIA.	Haparanda ...	29.26	44	E	2	r	29.18	- .32	45	45	0	S	4	r	•	50	43	0.12	
	Hernösand ...	29.19	47	ESE	2	r	29.19	- .07	45	44	- 3	N	2	r	•	55	45	0.20	
	Stockholm ...	29.09	45	NE	2	0	29.20	+ .11	47	45	+ 1	Z	0	0	•	54	43	0.04	
	Wisby ...	29.07	48	SE	8	r	29.24	+ .29	49	46	0	NNW	6	bc	•	54	41	0.24	
	Bodö ...	29.30	48	E	2	0	29.23	- .04	44	41	- 5	SE	2	b	1	54	41	—	
	Christiansund	29.17	48	NNE	1	b	29.24	+ .12	46	45	+ 3	WSW	2	bc	3	52	41	—	
	Skudesnaes ...	29.24	45	Z	0	c	29.28	+ .08	47	?	+ 3	NNE	1	c	2	47	41	—	
	Christiania Fjord (Færder)	29.15	50	NNW	2	c	29.22	+ .13	46	45	- 2	NNW	2	r	1	52	45	0.51	
	Skagen (The Scaw)	29.13	50	W	3	r	29.22	+ .14	48	45	- 3	W	1	bc	1	55	43	0.08	
	Fanö ...	29.30	45	NW	4	b	29.34	+ .10	43	43	- 8	Z	0	r	•	55	?	0.35	
BRITISH ISLANDS.	Sumburgh Head	29.29	43	N	3	0	29.31	+ .03	45	44	+ 5	NNW	4	r	5	48	39	0.26	
	Stornoway ...	29.50	43	N	2	bc	29.62	+ .14	44	43	+ 2	NW	5	c	4	47	37	0.42	
	Wick ...	29.40	42	N	4	0	29.50	+ .11	45	43	+ 1	N	3	0	2	49	35	0.15	
	Nairn ...	29.47	43	NNW	2	b	29.56	+ .07	43	40	+ 1	NNW	2	c	2	48	36	0.16	
	Aberdeen ...	29.45	41	NNW	3	bc	29.53	+ .07	44	41	- 1	NNW	4	bcq	3	50	37	0.01	
	Leith ...	29.45	44	N	3	c	29.61	+ .08	43	39	- 3	W	1	bm	•	54	35	—	
	Shields ...	29.37	50	SW	3	c	29.59	+ .06	42	40	- 1	W	2	bw	3	55	34	—	
	Spurn Head ...	29.50	51	W	5	0	29.58	+ .03	44	42	- 2	NNW	4	b	4	53	43	—	
	York ...	29.54	49	W	2	c	29.63	+ .05	41	38	- 5	NW	1	b	•	56	38	—	
	Loughborough	29.62	46	NNW	3	c	29.63	- .01	46	44	- 1	N	1	bm	•	54	41	0.08	
GERMANY.	Ardrossan ...	29.52	48	NNW	4	b	29.64	+ .07	47	43	0	N	3	bm	2	51	35	0.10	
	Malin Head ...	29.58	47	NW	4	op	29.71	+ .10	47	43	+ 1	NNW	5	bpy	3	50	44	0.08	
	Mullaghmore ...	29.63	49	NNW	5	op	29.78	+ .07	50	45	- 1	NNW	4	br	2	54	45	0.15	
	Belmullet ...	29.67	51	NW	2	0	29.82	+ .06	49	45	0	N	1	b	•	52	44	0.17	
	Donaghadee ...	29.60	47	NNE	4	0	29.70	+ .06	49	43	+ 2	N	4	b	2	52	43	0.09	
	Barrow-in-Furness	29.55	46	N	4	b	29.64	+ .08	46	42	+ 1	NNW	3	b	•	49	39	0.39	
	Liverpool (Bidston)	29.60	45	NNW	4	0	29.65	+ .05	48	44	- 1	NE	1	b	3	52	44	0.12	
	Holyhead ...	29.63	51	NNW	5	cq	29.68	+ .00	50	45	+ 1	NNE	5	b	4	54	47	0.11	
	Parsonstown ...	29.69	50	Z	0	c	29.79	+ .01	43	41	- 4	NW	1	b	•	54	41	0.03	
	Valencia ...	29.75	55	NNW	2	sm	29.84	- .01	52	48	- 3	NNW	3	bcq	4	58	50	0.03	
FRANCE AND NETHERLANDS.	Roche's Point...	29.74	55	NNW	3	c	29.80	- .04	50	46	- 2	NNW	4	b	4	57	47	—	
	Pembroke (St. Ann's Hd.)	29.71	54	W	5	c	29.67	- .11	51	48	0	NW	5	bcq	4	54	50	0.03	
	Scilly ...	29.79	54	WSW	5	op	29.72	- .13	53	51	0	NNW	6	og	5	58	52	0.08	
	Prawle Point...	29.74	53	NNW	5	c	29.68	- .13	54	51	+ 4	NNW	3	bc	2	57	48	0.07	
	Jersey (St. Aubin's)	29.81	57	W	4	c	29.70	- .12	56	54	+ 1	NW	3	bc	3	59	51	0.32	
	Hurst Castle ...	29.71	53	NNW	5	cq	29.65	- .09	50	49	0	NNW	3	c	2	58	46	—	
	Dungeness ...	29.65	54	NNW	5	c	29.61	- .04	47	45	0	NW	3	bc	2	58	42	—	
	London ...	29.56	49	W	2	b	29.62	- .06	47	44	0	NE	1	bm	•	56	40	0.01	
	Oxford ...	29.67	46	W	2	0	29.64	- .05	48	46	+ 2	N	1	b	•	54	44	0.02	
	Cambridge ...	29.63	48	N	1	0	29.64	- .01	46	46	- 1	N	1	b	•	54	40	0.02	
PENIN- SULA.	Yarmouth ...	29.58	48	W	3	bc	29.58	+ .04	46	44	0	NNW	3	b	3	54	39	0.01	
	Cuxhaven ...	29.38	45	W	4	r	29.43	+ .08	44	43	- 3	WSW	4	bc	•	51	43	0.68	
	Berlin ...	29.50	49	NNW	2	c	29.56	+ .16	44	42	- 3	WSW	2	r	•	54	41	0.02	
	Wiesbaden ...	*	*	*	*	*	29.66	+ .08	46	44	- 2	W	2	0	•	55	39	0.04	
	Munich ...	29.78	39	SW	5	c	29.78	+ .10	43	41	- 2	SW	5	c	•	52	39	0.59	
	The Helder ...	29.60	51	W	3	b	29.48	+ .05	49	45	- 1	NNW	4	b	4	52	46	0.39	
	Brussels (9 a.m.)	?	54	WSW	6	c	29.62	+ .04	47	46	+ 1	Z	0	c	•	55	46	0.12	
	Cape Gris Nez	?	54	WSW	6	c	29.62	+ .04	47	46	+ 1	NW	3	b	3	57	48	—	
	Paris ...	29.80	50	WSW	2	0	29.67	- .07	50	48	+ 2	SW	2	r	•	58	46	0.04	
	Brest ...	?	61	NW	2	0	?	?	57	55	0	NW	4	c	4	64	52	0.12	
PENIN- SULA.	Lorient ...	29.92	58	NW	3	c	29.72	- .19	58	56	+ 3	NW	6	c	4	61	57	0.16	
	Rochefort ...	29.99	61	NW	5	c	29.86	- .10	63	62	+ 6	W	6	0	4	64	52	—	
	Belfort ...	29.78	49	W	1	r	29.78	+ .06	49	43	+ 1	NNW	2	0	•	53	44	0.32	
	Lyons ...	29.91	52	ENE	1	0	29.91	+ .09	53	48	+ 1	S	2	c	•	60	48	—	
	Nice ...	29.59	68	NNW	5	c	29.72	+ .03	62	47	- 3	NNW	4	b	1	79	52	—	
	Perpignan ...	29.94	64	NW	3	0	29.97	+ .10	59	56	- 3	Z	0	0	•	71	57	—	
	Biarritz ...	30.00	59	NNW	2	0	29.96	+ .00	60	57	+ 1	WSW	4	r	3	64	57	0.20	
	Corunna ...	*	*	*	*	*	30.04	- .00	57	55	- 3	?	4	?	5	68	52	—	
	Lisbon ...	29.99	73	NW	3	b	29.97	- .02	67	63	+ 1	Z	0	c	2	81	64	—	

For Explanation of Columns, see bottom of p 4.

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



# WEATHER CHARTS

for 8 a.m. on

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

1889.

## BAROMETER, WIND AND SEA.

### EXPLANATION OF MAP

**BAROMETER**—Isobars are drawn for each tenth of an inch.

Changes since previous morning are stated in words.

**WIND**—Arrows shew the prevalent winds. They fly with the wind and their barbs and feathers refer to force thus—

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

**SEA-DISTURBANCE**—Where considerable, is shewn thus:

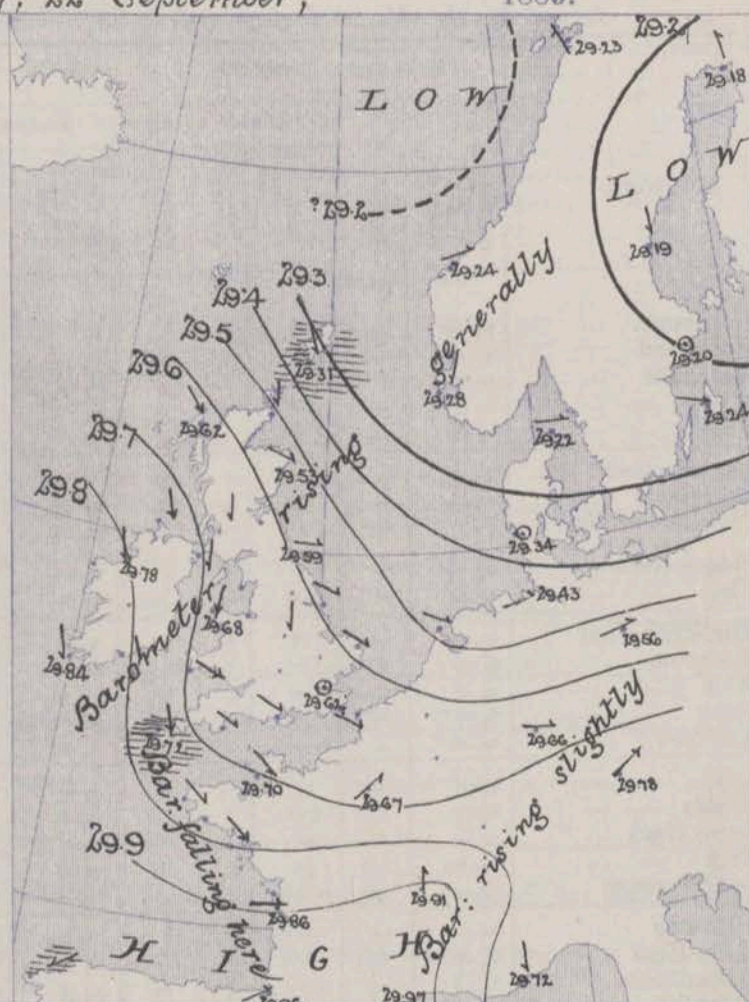
— Rough. — High.

## MEAN HEIGHT OF THE BAROMETER

at 8.0 a.m. for the month of September.

During the 15 Years: 1871—1885.

STATIONS.	MEAN READINGS.
Sumburgh Head	29.766
Stornoway	29.780
Wick	29.793
Nairn	29.809
Aberdeen	29.819
Leith	29.846
Shields	29.869
York	29.905
Loughborough	29.921
Ardrossan	29.850
Donaghadee	29.869
Holyhead	29.894
Liverpool	29.899
Parsonstown	29.904
Valencia	29.917
Roche's Point	29.915
Pembroke	29.913
Sally	29.943
Jersey	29.955
Hurst Castle	29.960
Dover	29.941
LONDON	29.945
Oxford	29.935
Cambridge	29.931
Yarmouth	29.916





# GENERAL SITUATION AT 8 A.M.

PRESSURE	<p>Highest, 30.0 ins. and upwards, in an anticyclone lying over the north of Spain.</p> <p>Lowest, 29.2 ins. and less, in a depression lying over Sweden, and also in another lying (apparently) off the west of Norway.</p> <p>Gradient moderate in the north of Scotland, but slight elsewhere. Barometer rising at all but our southern and the French stations.</p>
TEMPERATURE	<p>Highest, 67° at Lisbon, 63° at Rochefort, 62° at Nice, 59° at Perpignan, 58° at Forment, and 57° at Brest.</p> <p>Lowest, 41° at York, 42° at Shields, and 43° at Paris, Marseilles, Leith, and Rangoon.</p> <p>The maxima registered over our Islands yesterday <sup>was below</sup> 60° at all stations excepting Dungeness, and below 50° in the north of Scotland.</p>
WIND	<p>Light to fresh from the NW<sup>rd</sup> over our Islands and the north of France; W<sup>ly</sup> or SW<sup>ly</sup> in Germany and east of France.</p> <p>Variable in Sweden, Denmark, and the south of Norway; light from S. or SE. in the north of Scandinavia.</p>
WEATHER	<p>Fine over the greater part of our Islands, and also on the eastern shores of the North Sea, but rainy at Lumburg Ht.</p> <p>Dull and rainy at several of the Swedish, German, and French stations.</p> <p>Showers fell yesterday in many parts of the United Kingdom, and lightning was seen at night at Shields.</p>
SEA	<p>Rather rough at Lumburg Ht. and Scilly, but moderate to smooth elsewhere.</p>

## PROBABLE CHANGES IN SYSTEM NOW PREVALENT

## FORECASTS

For the 24 hours ending at NOON on 23<sup>rd</sup> SEPT. 1889.

### 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
- 0 IRELAND SOUTH

### WARNINGS

### FORECASTS

NONE ISSUED

The NORTH CONE has been hoisted this morning in district 0. and a part of 1.

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

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



# YESTERDAY'S 2 P.M. REPORTS.

Bar:								Ther:		Wind		Wea:		Sea		Bar:								Ther:		Wind		Wea:		Sea								
								D	W	D	F													D	W	D	F											
Skudesnaes	...	29.23	47	45	WNW	5	c	3						Holyhead	...	29.67	52	47	WNW	6	cgg	5																
Sumburgh Head	...	29.28	46	41	NW	3	c	0						Valencia	...	29.81	57	53	W	2	o	2																
Stornoway	...	29.50	45	45	NW	4	bc	4						Scilly	...	29.84	58	54	WNW	4	c	5																
Aberdeen	...	29.43	48	42	WNW	4	bcpg	3						Jersey	...	29.83	57	57	NW	4	cm	3																
Shields	...	29.49	51	48	WSW	3	c	3						Dungeness	...	29.67	57	50	WNW	4	bc	3																
Ardrossan	...	29.24	50	46	WNW	5	bcpg	4						London	...	29.66	54	48	WNW	3	op	4																
Malin Head	...	29.60	50	45	NW	5	bc	3						Yarmouth	...	29.58	53	47	WNW	5	bc	4																
Mullaghmore	...	29.68	50	46	WNW	5	or	4						Rochefort	...	30.01	60	58	NW	3	o	2																
Belmullet	...	29.72	52	48	NW	1	o	*																														

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

The reports for yesterday morning showed that pressure was highest, 30.0 in: and upwards, in an anticyclone lying over the greater part of Spain, and lowest 29.0 in: and less, in a well defined depression lying over the Baltic. Another depression with readings below 29 in: was, however, shown over the northern part of Italy and the Adriatic. The wind was light to fresh from W. or NW. over the greater part of Western Europe, but W<sup>1</sup> or SW<sup>2</sup> over Italy, Austria and Germany, and SE<sup>1</sup> or E<sup>4</sup> over the northern parts of Russia and Scandinavia. Over the Iberian Peninsula light variable breezes were reported, while in Algeria the wind was chiefly SE<sup>1</sup>. The weather was fine in most parts of Western Europe, but local showers were reported over our Islands. Over the northern, central, and eastern countries as well as in Italy the sky was mostly overcast with rain in many places and a thunderstorm at Rome. Temperature had risen quickly over the south of France and northern Italy and to a less extent over Austria and Russia, but fallen elsewhere; readings ranged from 70° or a little above over the central and southern parts of the Mediterranean to 45° or less in the northern and eastern parts of Great Britain and some parts of Central Europe. The highest individual readings were 72° at Barcelona, 71° at Rome, Malta, Algiers, Oram and Rabat, and 70° at Languedoc, Palermo and Aumale; the lowest were 40° at Sumburgh H., 42° at Stornoway, Kairi and Kharkov, 43° at Christianmünd and Schild, 44° at Rudenau, Wick, Münster, and Kier, and 45° at Donaghadee, Banow in Tinnis, Neufahrwasser, Narva, Rostau, Hague and Munich.

In the course of the day some small shallow secondary disturbances travelled eastwards or south-eastwards across the United Kingdom, and occasioned showers in most districts. Temperature remained low and in the course of the evening night ground frost was experienced over the inland parts of Great Britain.

### 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, 23<sup>rd</sup> September, 1889.*  
*Issued by the Meteorological Office, 63, 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.				
			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.)		Weather.	Max.	Min.	Amount of Rainfall.	
SCANDINAVIA.	Haparanda ...	29.26	44	S	2	1	29.31	+ .13	45	44	0	SW	2	c	*	46	39	0.12
	Hernösand ...	29.30	45	Z	0	0	29.41	+ .12	44	43	- 1	Z	0	c	*	52	43	0.04
	Stockholm ...	29.38	45	Z	0	0	29.42	+ .12	45	43	- 2	Z	0	c	*	63	41	.
	Wisby ...	29.41	47	SW	4	6	29.44	+ .20	46	45	- 3	SW	2	c	*	52	45	.
	Bodö ...	29.28	46	WNW	2	0	29.34	+ .11	45	44	+ 1	W	2	r	1	50	41	0.55
	Christiansund	28.96	46	WSW	3	6	29.41	+ .17	46	44	0	S	1	b	4	52	41	0.12
	Skudesnaes ...	29.36	46	Z	0	6	29.49	+ .21	48	45	+ 1	NNW	2	bc	2	57	43	.
	Christiania Fjord (Færder)	29.33	49	ENE	2	c	29.42	+ .20	48	46	+ 2	ENE	3	bc	0	50	45	0.39
	Skagen (The Scaw)	29.33	47	WSW	1	6	29.40	+ .18	49	48	+ 1	N	1	bc	1	55	39	.
	Fanö ...	29.43	47	W	4	0	29.49	+ .15	48	47	+ 5	WNW	4	c	*	52	43	0.20
BRITISH ISLANDS.	Sumburgh Head	29.36	47	NNW	4	0	29.61	+ .30	44	41	- 1	N	2	c	4	50	41	0.17
	Stornoway ...	29.74	44	NW	5	bc	29.74	+ .12	44	43	0	Z	0	0	3	48	40	0.12
	Wick ...	29.59	44	N	5	0	29.67	+ .17	43	43	- 2	N	2	0	1	50	41	0.25
	Nairn ...	29.67	45	WNW	3	c	29.72	+ .16	43	40	0	WSW	2	bc	2	51	36	0.02
	Aberdeen ...	29.64	44	WNW	4	bcyp	29.70	+ .17	45	41	+ 1	WNW	4	c	3	51	41	.
	Leith ...	29.68	44	W	2	bc	29.76	+ .15	44	40	+ 1	W	1	bc	*	56	37	0.02
	Shields ...	29.66	50	W	1	b	29.77	+ .18	44	42	+ 2	W	3	c	2	55	35	.
	Spurn Head ...	29.68	52	WNW	4	b	29.80	+ .22	45	43	+ 1	WSW	4	c	4	53	42	.
	York ...	29.71	51	NW	1	b	29.83	+ .20	44	40	+ 3	WNW	1	bc	*	55	34	.
	Loughborough	29.74	48	WNW	3	b	29.88	+ .25	46	43	0	W	2	c	*	58	39	.
GERMANY.	Ardrossan ...	29.75	47	N	3	b	29.78	+ .14	49	47	+ 2	Z	0	om	0	54	40	.
	Malin Head ...	29.82	48	NNW	4	bcyp	29.78	+ .07	44	43	- 3	SSW	3	og	3	50	43	0.07
	Mullaghmore ...	29.84	49	NNW	5	bv	29.76	- .02	49	45	- 1	SE	4	0	2	55	42	.
	Belmullet ...	29.91	49	NNW	2	c	29.70	- .12	49	47	0	SE	2	0	*	53	43	0.03
	Donaghadee ...	29.81	47	N	2	bc	29.82	+ .12	44	43	- 3	WSW	3	c	1	54	43	0.02
	Barrow-in-Furness	29.72	49	NW	2	bc	29.80	+ .16	44	42	- 2	NE	2	bc	*	54	42	0.03
	Liverpool (Bidston)	29.78	49	WNW	4	b	29.85	+ .20	47	44	- 1	WSW	2	0	3	53	44	0.02
	Holyhead ...	29.81	51	NNW	5	b	29.85	+ .17	49	46	- 1	SW	1	cq	2	53	45	.
	Parsonstown ...	29.90	50	Z	0	c	29.80	+ .01	46	44	+ 3	Z	0	r	*	56	41	.
	Valencia ...	29.93	53	NW	4	p	29.72	- .12	54	53	+ 2	SE	6	pm	5	59	50	0.07
FRANCE AND NETHERLANDS.	Roche's Point...	29.91	55	NNW	3	b	29.80	.00	53	52	+ 3	SSW	3	rm	4	59	45	.
	Pembroke (St. Ann's Hd.)	29.88	51	NW	3	bc	29.86	+ .19	51	50	+ 3	SSW	4	c	3	55	47	0.04
	Scilly ...	29.90	55	NNW	5	c	29.88	+ .16	53	53	0	SSW	5	opd	4	56	50	0.01
	Prawle Point ...	29.85	50	NNW	3	b	29.94	+ .26	53	48	- 1	SSW	2	c	2	61	42	.
	Jersey (St. Aubin's)	29.81	56	NW	4	c	29.97	+ .27	50	46	- 6	NW	3	bc	3	61	43	0.04
	Hurst Castle ...	29.79	52	N	3	cp	29.95	+ .30	49	48	- 1	N	2	bcw	1	56	40	0.04
	Dungeness ...	29.70	55	NNW	3	c	29.91	+ .30	46	43	- 1	NNW	2	bc	1	50	35	.
	London ...	29.76	50	NNW	1	b	29.92	+ .30	42	40	- 5	W	1	c	*	55	35	.
	Oxford ...	29.86	44	NW	1	b	29.93	+ .29	41	40	- 7	WSW	2	b	*	56	35	.
	Cambridge ...	29.77	49	N	1	b	29.88	+ .24	46	44	0	W	1	b	*	59	37	.
PENIN- SULA.	Yarmouth ...	29.71	50	NW	3	b	29.84	+ .26	44	42	- 2	WNW	4	b	3	53	35	.
	Cuxhaven ...	29.54	47	W	3	r	29.62	+ .19	47	46	+ 3	W	4	ry	*	51	?	0.76
	Berlin ...	29.99	45	SW	2	c	29.71	+ .15	46	44	+ 2	W	4	c	*	60	41	0.04
	Wiesbaden ...	*	*	*	*	*	29.89	+ .23	39	38	- 7	Z	0	b	*	54	?	0.08
	Munich ...	29.69	46	NW	4	r	29.92	+ .14	44	41	+ 1	SW	4	r	*	52	37	0.79
	The Helder ...	29.65	51	NNW	3	c	29.76	+ .28	52	48	+ 3	NNW	3	c	4	54	48	0.16
	Brussels (9 a.m.)	*	*	*	*	*	29.92	+ .30	44	42	- 3	WSW	2	b	*	56	42	0.04
	Cape Gris Nez	?	55	NNW	2	0	?	?	49	46	0	NW	3	b	3	61	48	.
	Paris ...	29.75	55	NNW	1	0	29.97	+ .30	41	41	- 9	Z	0	b	*	61	40	0.20
	Brest ...	?	56	NE	5	b	?	?	57	50	0	SSW	1	0	2	63	46	0.02
FRANCE AND NETHERLANDS.	Lorient ...	29.90	56	NNW	5	b	30.01	+ .29	51	48	- 7	NE	1	bc	2	63	48	.
	Rochefort ...	29.94	61	NW	5	0	30.02	+ .16	?	?	?	NNW	3	?b	2	68	45	0.08
	Belfort ...	29.80	50	W	1	r	29.90	+ .12	51	46	+ 2	NW	1	c	*	53	45	0.35
	Lyons ...	29.82	57	N	3	r	29.95	+ .04	54	51	+ 1	NNW	1	bc	*	65	52	0.35
	Nice ...	29.74	64	SE	2	b	29.75	+ .03	62	56	0	SE	3	bc	2	72	59	.
	Perpignan ...	29.93	62	S	1	c	29.92	- .05	63	58	+ 4	NW	3	0	*	75	55	.
	Biarritz ...	29.97	66	WNW	4	0	30.00	+ .04	?	58	?	ENE	3	0	3	68	57	0.16
	Corunna ...	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Lisbon ...	29.98	66	NNW	4	bc	30.02	+ .05	63	59	- 4	ENE	3	c	4	75	63	.

For Explanation of Columns, see bottom of p. 4.

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



# WEATHER CHARTS

for 8 a.m. on Monday, 23<sup>rd</sup> September.

1889.

## BAROMETER, WIND AND 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:

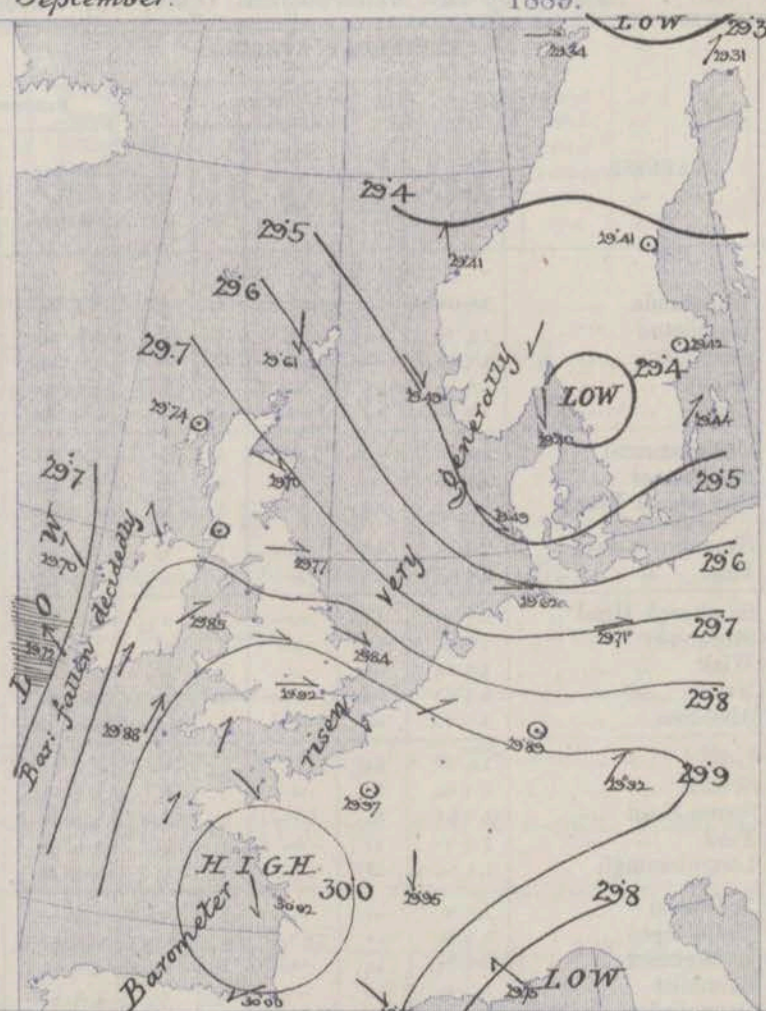
☼ = Rough. ☼ = High.

## MEAN HEIGHT OF THE BAROMETER

at 8.0 a.m. for the month of September.

During the 15 Years: 1871—1885.

STATIONS.	MEAN READINGS.
Sumburgh Head	29.766
Stornoway	29.780
Wick	29.793
Nairn	29.809
Aberdeen	29.819
Leith	29.846
Shields	29.869
York	29.905
Loughborough	29.924
Ardrossan	29.950
Donaghadee	29.969
Holyhead	29.994
Liverpool	29.999
Parsonstown	29.994
Valencia	29.917
Roche's Point	29.915
Pembroke	29.913
Seilly	29.943
Jersey	29.955
Hurst Castle	29.960
Dover	29.941
LONDON	29.945
Oxford	29.935
Cambridge	29.931
Yarmouth	29.916



## 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.

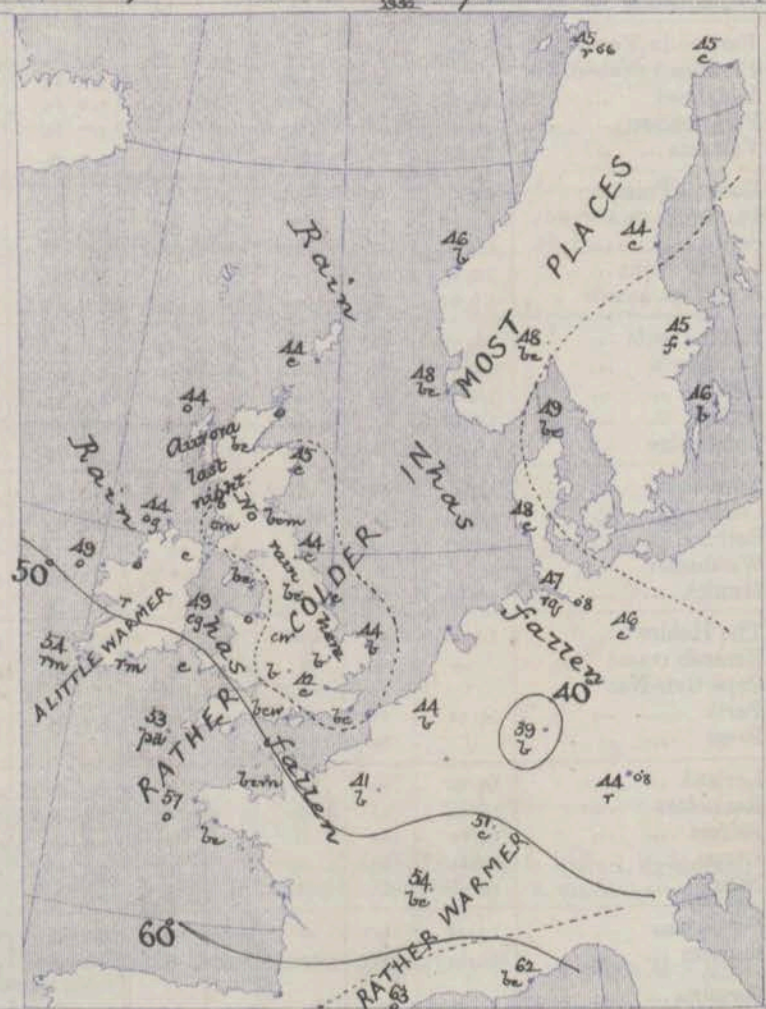
**RAINFALL**—A dotted line separates the districts in which rain has fallen from those where there has been none. Falls of 0.5 in. or more, are quoted in figures.

## 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	46.3	50.9	49.2	3.46
Stornoway .....	56.1	45.7	51.1	49.8	4.13
Wick.....	57.6	45.5	51.8	49.9	2.66
Nairn.....	59.0	46.8	51.2	48.8	2.73
Aberdeen .....	59.2	46.7	52.1	49.8	3.22
Leith.....	62.2	47.6	53.2	50.8	2.47
Shields.....	59.9	49.3	53.1	51.1	2.58
York.....	63.3	47.3	52.8	51.0	2.98
Loughborough .....	65.6	47.9	54.3	52.4	3.06
Ardrossan.....	59.7	49.6	53.5	51.3	3.87
Donaghadee.....	59.6	48.8	53.3	52.1	3.22
Holyhead.....	60.6	52.8	55.7	53.5	3.35
Liverpool.....	61.2	50.9	54.5	51.9	3.56
Parsonstown .....	61.6	47.5	53.1	51.1	3.49
Valencia.....	61.7	51.5	56.3	53.9	4.87
Roche's Point.....	61.9	51.0	55.4	53.2	4.39
Pembroke.....	60.2	53.1	56.2	53.8	3.89
Seilly .....	61.8	54.8	58.4	56.2	3.69
Jersey.....	65.2	54.9	59.8	57.1	3.51
Hurst Castle .....	64.2	52.2	57.2	55.8	3.35
Dover.....	62.9	53.0	57.0	55.3	2.86
LONDON.....	66.3	49.4	55.9	53.6	2.69
Oxford.....	63.8	49.1	54.2	52.3	2.91
Cambridge.....	65.5	48.1	54.4	52.0	2.48
Yarmouth.....	62.0	51.1	56.2	54.4	3.17

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





# GENERAL SITUATION AT 8 A.M.

## PRESSURE

Highest, 29.9 in. at 300 mi. and more over Spain, France, and the south of England.  
 Lowest, 29.7 in. and less, off the west of Ireland — 29.4 in. and less, over the southwest of Sweden, and 29.3 in. and less, over Lapland.  
 Gradients moderate in the east and west, slight in the south.  
 Barometer falling, decidedly in Ireland, rising slightly at our eastern stations.

## TEMPERATURE

Highest, 64° at Lisbon, 63° at Perpignan, 62° at Nice, 57° at Rheims, and 54° at Valencia.  
 Lowest, 39° at Wiesbaden, 44° at Oxford and Paris, 49° in London, 43° at Wick and Kairu, 44° at Munich, Shields, Leith, and Malin Hd.  
 Sharp frost occurred on the grass at several of our Island stations early this morning.

## WIND

Moderate W<sup>1</sup> over the North Sea — Light NW<sup>1</sup> over Scotland and the eastern part of the Channel.  
 Moderate S<sup>1</sup> over St. George's Channel and Irish Sea — SE<sup>1</sup> in the west of Ireland, and blowing freely at Valencia.  
 Very variable on the Continent.

## WEATHER

Fine at most of the eastern and southeastern stations — dull and unsettled in the west, with rain very generally over the southern half of Ireland and at Sicily.  
 A halo is reported at Oxford, and a solar halo in London — the sheet-cirrus was thin, but coming quickly from west.

## SEA

Rather rough at Valencia, moderate at most of our western stations, slight or smooth elsewhere.

## PROBABLE CHANGES IN SYSTEM NOW PREVALENT

It is evident that a somewhat large depression is approaching our western coast, but the indications of its intensity are not at present deemed sufficient to warrant the issue of storm warnings to our coast.

# FORECASTS

For the 24 hours ending at NOON on 24<sup>th</sup> SEPT: 1889.

## DISTRICTS.

## FORECASTS.

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

Wind becoming SW<sup>1</sup> and S<sup>1</sup> and increasing with unsettled rainy weather.

W<sup>1</sup> to S<sup>1</sup> winds, increasing, rainy, unsettled.

## DISTRICTS.

## FORECASTS

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

S<sup>1</sup> to W<sup>1</sup> winds, strong, possibly gales later; rainy.

## 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:	Ther:		Wind:		Wea:	Sea:		Bar:	Ther:		Wind:		Wea:	Sea:
		D	W	D	F					D	W	D	F		
Skudesnaes ...	29.32	57	48	W	1	c	2		Holyhead ...	29.78	52	47	WNW	5	5
Sumburgh Head ...									Valencia ...						
Stornoway ...	29.69	46	46	NW	5	bc	4		Scilly ...						
Aberdeen ...									Jersey ...	29.73	59	54	WNW	1	3
Shields ...									Dungeness ...	29.66	57	50	WNW	1	0
Ardrossan ...									London ...						
Malin Head ...	29.76	50	45	WNW	5	b	3		Yarmouth ...						
Mullaghmore ...									Rochefort ...	29.89	64	63	WNW	5	3
Belmullet ...	29.88	53	47	NW	1	c	*								

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

The reports for yesterday morning showed that pressure was highest, 30.0 ins. and upwards, in an anticyclone lying over the north of Spain, as well as in a smaller area lying over Tunis, and relatively high, 29.9 ins. and upwards, in another system lying over the south of Russia. The lowest readings 29.2 ins. and less were found in a large depression lying over Sweden and Finland, and also (apparently) in another disturbance lying to the westward of Norway. The wind was light to fresh from the NW<sup>nd</sup> over our Islands, the North Sea, the Netherlands and the north of France, but moderate from the SW<sup>nd</sup> in Germany, and light to strong from the S<sup>nd</sup> or SE<sup>nd</sup> over central and northern Russia. Over Southern Europe and the Mediterranean however, the wind was light and very variable. The weather was fine over the greater part of western and southern Europe, but showers were reported locally, and rain was falling at Sumburgh Head, as well as in some parts of Central France. Over Sweden, Russia, Germany and Austria the sky was generally overcast, with rain at several of the northern stations. Temperature had changed very irregularly, but the general tendency was for a further fall, readings ranged from 75° and upwards, over some of the central and southern parts of the Mediterranean to 45° or less, in the north and east of Great Britain, the north of Scandinavia and the central parts of Germany and Russia. The highest individual readings were 82° at Palma, 79° at Malta, 78° at Algiers, 76° at La Caille, 72° at Baghara, 71° at Harroum, and 70° at Brindisi and Constantinople; the lowest were 41° at York, 42° at Shields and Warsaw, and 43° at Kaira, Leith, Parsonstown, Baki, Uleaborg, Fani and Munich.

In the course of the day the large depression over Sweden appears to have filled up, and the barometer rose in all parts of western Europe. Showers were however experienced on many parts of our Islands, and temperature remained low for the time of year. A sharp ground frost was experienced over the inland parts of England at night.

### SUMMARY OF CHANGES IN THE WEATHER OVER THE BRITISH ISLANDS AND THEIR NEIGHBOURHOOD FROM THE 15<sup>TH</sup> TO THE 21<sup>ST</sup> SEPTEMBER 1889.

During the past week a gradual but decided change in the weather has taken place over our Islands and their neighbourhood, and at the close of the period the conditions were everywhere cool, gusty and showery.

At the commencement of the week a large anticyclone covered the entire Kingdom, and light breezes from E. or NE in the south, but from varying directions in the North, were reported generally, with fair dry weather. After Sunday, however, the high pressure system moved steadily southeastward to the Netherlands and Germany, where it eventually dispersed.

Since then a large but not very deep depression has travelled slowly northeastward from the Atlantic to our extreme northwestern and northern coasts, and thence in an easterly direction to Scandinavia and the Baltic. As the disturbance approached our Islands freshening SW<sup>th</sup> winds and rain spread gradually from our extreme west coasts to all parts of the Kingdom, while in its rear the wind veered to the W<sup>nd</sup> and NW<sup>nd</sup> with squalls and showers. At no time, however, has the wind risen to the force of a gale. During the three last days of the week numerous shallow secondary disturbances travelled eastwards across our Islands, occasioning smart showers of hail and rain in most districts. On the night of the 20<sup>th</sup> lightning was seen in the east and southeast of England.

Temperature has been low for the time of year throughout the whole week, and on the 20<sup>th</sup> and 21<sup>st</sup> the maximum readings of the thermometer over our Islands were below 60° at all but our extreme southern stations. Over the inland parts of England ground frost were experienced during the night of the 16<sup>th</sup> and 17<sup>th</sup>.

### 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, 24<sup>th</sup> September, 1889.*  
 Issued by the Meteorological Office, 63, Victoria Street, London. *R. H. SCOTT, Secretary.*

Issued by the Meteorological Office, 55, Victoria Street, London. R. H. SCOTT, Secretary.

STATIONS.	YESTERDAY EVENING.					8 A.M. TO DAY.										PAST 24 HOURS.		
	Barometer at 3 <sup>rd</sup> P. and Sea Level.	Temp. in Shade.	WIND.		Weather.	BAROMETER.		SHADE TEMP.			WIND.		Sea. (0 to 9.)	SHADE TEMP.		Amount of Rainfall.		
			Direc.	Force. (0 to 12.)		Reading at 3 <sup>rd</sup> P. and Sea Level.	Difference from 8 a.m. yesterday.	Dry.	Wet.	Difference from 8 a.m. yesterday.	Direc.	Force. (0 to 12.)		Max.	Min.			
SCANDINAVIA.	Haparanda ...	29.40	41	?	?	0	29.38	+ .07	43	43	- 2	N	2	C	*	50	37	.
	Hernösand ...	29.47	42	Z	0	b	29.49	+ .08	42	41	- 2	Z	0	b	*	57	41	.
	Stockholm ...	29.49	45	Z	0	b	29.57	+ .15	46	44	+ 1	SW	2	O	*	55	39	.
	Wisby ...	29.51	44	WSW	4	b	29.60	+ .16	50	47	+ 4	W	4	b	*	57	41	.
	Bodö ...	29.50	45	Z	0	c	29.50	+ .16	45	43	0	Z	0	C	0	48	41	.
	Christiansund	29.49	46	WSW	2	b	29.43	+ .02	43	41	- 3	ESE	3	b	4	50	41	0.04
	Skudesnaes ...	29.62	47	NW	2	c	29.61	+ .12	45	41	- 3	Z	0	C	2	54	41	.
	Christiania Fjord (Færder)	29.51	52	WSW	3	b	29.54	+ .12	46	45	- 2	NW	3	b	1	52	46	.
	Skagen (The Scaw)	29.54	48	W	1	b	29.56	+ .10	48	45	- 1	W	3	O	2	54	45	.
	Fanö ...	29.64	50	W	4	b	29.65	+ .16	51	47	+ 3	W	4	C	*	54	46	0.32
BRITISH ISLANDS.	Sumburgh Head	29.68	42	NW	2	O	29.65	+ .04	41	38	- 3	N	2	C	3	47	37	0.05
	Stornoway ...	29.74	45	N	3	b	29.75	+ .01	44	42	0	NW	2	b	2	49	35	.
	Wick ...	29.72	42	N	2	b	29.70	+ .03	42	40	- 1	N	2	b	1	46	31	0.07
	Nairn ...	29.71	45	W	2	O	29.73	+ .01	40	38	- 3	WSW	2	C	2	51	37	0.03
	Aberdeen ...	29.71	45	NW	2	C	29.72	+ .02	42	40	- 3	NW	2	C	3	53	37	.
	Leith ...	29.70	45	W	1	b	29.71	- .05	45	41	+ 1	NNE	1	C	*	56	42	.
	Shields ...	29.70	51	SW	2	C	29.64	- .13	48	47	+ 4	E	2	Op	3	56	42	.
	Spurn Head ...	29.74	52	SW	3	O	29.58	- .22	51	50	+ 6	E	5	T	4	54	44	0.20
	York ...	29.75	56	S	1	O	29.63	- .20	48	46	+ 4	NE	1	T	*	56	42	0.30
	Loughborough	29.76	51	ESE	1	O	29.66	- .32	49	49	+ 3	ESE	1	T	*	57	46	0.92
BRITISH ISLANDS.	Ardrossan ...	29.69	50	Z	0	C	29.71	- .07	45	42	- 4	NW	2	C	1	56	38	.
	Malin Head ...	29.63	50	ESE	4	O	29.75	- .03	48	43	+ 4	N	5	C	3	52	44	0.01
	Mullaghmore ...	29.56	50	E	5	ogd	29.79	+ .03	49	45	0	NNE	5	b	3	53	48	0.02
	Belmullet ...	29.52	53	ESE	3	O	29.74	+ .09	51	47	+ 2	NNE	5	b	*	55	48	0.01
	Donaghadee ...	29.66	50	SE	3	C	29.72	- .10	50	48	+ 6	NE	4	b	2	52	42	0.09
	Barrow-in-Furness	29.68	48	NE	3	O	29.59	- .21	47	46	+ 3	NE	3	O	*	51	44	0.24
	Liverpool (Bidston)	29.68	50	SE	2	O	29.58	- .27	48	48	+ 1	E	2	O	2	54	47	0.45
	Holyhead ...	29.62	52	S	5	ormg	29.60	- .25	52	51	+ 3	NE	5	ogm	5	53	49	0.58
	Parsonstown ...	29.52	55	Z	0	T	29.70	- .10	47	45	+ 1	NW	1	O	*	56	45	0.11
	Valencia ...	29.48	58	ESE	1	rmg	29.72	- .00	52	50	- 2	NNE	5	O	5	59	50	0.71
BRITISH ISLANDS.	Roche's Point...	29.52	55	SW	2	T	29.60	- .20	53	51	0	NNE	5	O	4	59	50	0.65
	Pembroke (St. Ann's Hd.)	29.59	55	S	7	T	29.49	- .37	55	54	+ 1	NE	4	Cg	3	58	53	1.39
	Scilly ...	29.60	59	SSW	5	O	29.43	- .45	59	59	+ 6	NE	5	Op	5	60	52	0.24
	Prawle Point ...	29.73	53	S	5	O	29.47	- .47	58	58	+ 5	SSE	5	rm	4	58	50	0.33
	Jersey (St. Aubin's)	29.83	59	ESE	4	ogm	29.52	- .45	60	58	+ 10	SE	6	omu	5	62	48	0.06
	Hurst Castle ...	29.60	56	SSW	5	Cg	29.53	- .42	58	58	+ 9	SSW	7	Op	5	58	46	0.33
	Dunegness ...	29.83	55	WSW	3	C	29.60	- .31	54	53	+ 8	WSW	6	T	4	59	45	0.06
	London ...	29.82	53	SW	1	C	29.55	- .37	55	54	+ 13	S	2	T	*	57	41	0.21
	Oxford ...	29.74	51	SE	2	O	29.51	- .42	54	54	+ 13	SE	1	rm	*	56	41	0.42
	Cambridge ...	29.77	52	S	1	O	29.54	- .34	52	52	+ 6	SE	1	T	*	57	44	0.87
GERMANY.	Yarmouth ...	29.82	52	W	2	C	29.62	- .22	52	51	+ 8	ESE	4	rg	4	54	42	0.24
	Cuxhaven ...	29.73	47	W	3	T	29.77	+ .15	46	45	- 1	SSW	2	b	*	54	45	0.16
	Berlin ...	29.87	48	W	2	b	29.88	+ .17	42	41	- 4	SW	2	O	*	54	39	0.04
	Wiesbaden ...	*	*	*	*	*	29.86	- .03	41	39	+ 2	SW	1	b	*	57	36	.
	Munich ...	29.99	44	NE	1	C	29.88	- .04	42	42	- 2	Z	0	f	*	52	34	0.12
	The Helder ...	29.81	52	W	2	C	29.71	- .05	48	46	- 4	S	1	C	1	54	48	0.04
	Brussels (9 a.m.)	*	*	*	*	*	29.75	- .17	50	46	+ 6	SSW	3	C	*	55	?	.
	Cape Gris Nez	?	55	SW	2	O	?	?	52	47	+ 3	S	5	O	3	57	48	.
	Paris ...	29.92	50	Z	0	b	29.75	- .22	45	43	+ 4	S	1	b	*	61	41	.
	Brest ...	?	?	SW	0	O	?	?	62	61	+ 5	S	6	T	5	63	54	0.08
FRANCE AND NETHERLANDS.	Lorient ...	29.87	56	S	4	T	29.62	- .39	61	?	+ 10	S	5	T	5	61	50	0.16
	Rochefort ...	29.99	59	WSW	3	C	29.69	- .33	57	53	?	SE	4	e	0	?	50	.
	Belfort ...	29.89	50	NW	1	b	29.80	- .10	46	41	- 5	NW	1	b	*	55	43	.
	Lyons ...	29.90	53	N	2	b	29.84	- .11	43	41	- 11	W	1	b	*	62	39	.
	Nice ...	29.78	62	NE	2	C	29.79	+ .04	61	59	- 1	E	2	C	1	70	57	.
	Perpignan ...	29.91	63	NW	4	O	29.79	- .13	58	54	- 5	Z	0	O	*	73	55	.
	Biarritz ...	29.95	64	NW	2	b	29.59	- .41	56	51	?	SE	4	b	3	70	50	.
	Corunna ...	*	*	*	*	*	29.66	?	63	61	?	SW	6	O	4	72	59	0.39
	Lisbon ...	30.02	64	NNE	4	b	29.87	- .15	64	63	+ 1	WSW	4	O	4	70	63	.

For Explanation of Columns, see bottom of p. 4.

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



# WEATHER CHARTS

for 8 a.m. on

Tuesday, 24<sup>th</sup> September.

1889.

## BAROMETER, WIND AND 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:

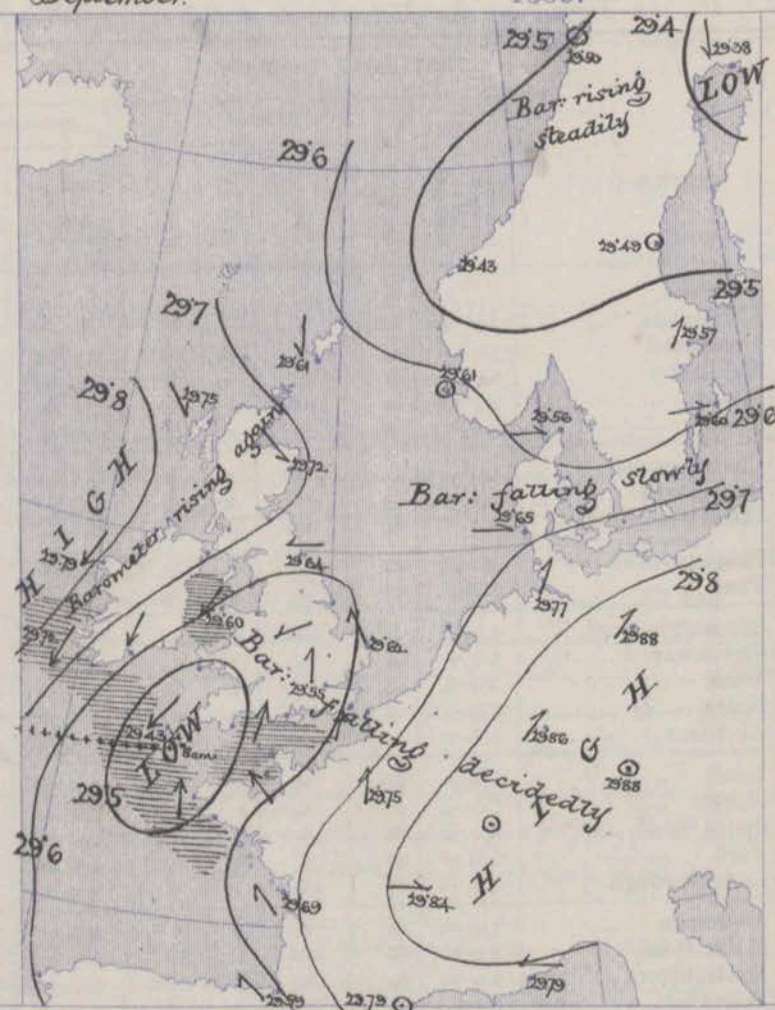
—= Rough. —= High.

## MEAN HEIGHT OF THE BAROMETER

at 8.0 a.m. for the month of September.

During the 15 Years: 1871—1885.

STATIONS.	MEAN READINGS.
Sumburgh Head .....	29.766
Stornoway .....	29.780
Wick .....	29.793
Nairn .....	29.809
Aberdeen .....	29.819
Leith .....	29.846
Shields .....	29.869
York .....	29.905
Loughborough .....	29.924
Ardrossan .....	29.850
Donaghadee .....	29.869
Holyhead .....	29.894
Liverpool .....	29.899
Parsonstown .....	29.904
Valencia .....	29.917
Roche's Point .....	29.915
Pembroke .....	29.913
Sailly .....	29.943
Jersey .....	29.955
Hurst Castle .....	29.960
Dover .....	29.941
LONDON .....	29.945
Oxford .....	29.935
Cambridge .....	29.931
Yarmouth .....	29.916



## 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.

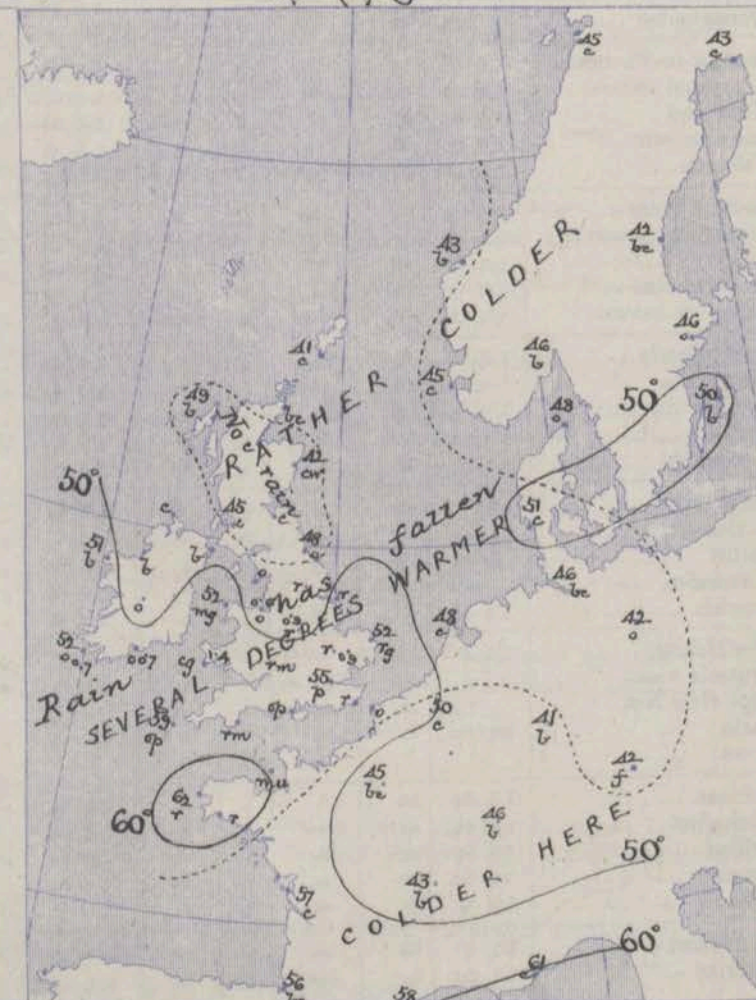
**RAINFALL**—A dotted line separates the districts in which rain has fallen from those where there has been none. Falls of 0.5 in. or more, are quoted in figures.

### 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	46.3	50.9	49.2	3.46
Stornoway .....	56.1	45.7	51.1	49.8	4.13
Wick.....	57.6	45.5	51.8	49.9	2.66
Nairn .....	59.0	46.8	51.2	48.8	2.73
Aberdeen .....	59.2	46.7	52.1	49.8	3.22
Leith.....	62.2	47.6	53.2	50.8	2.47
Shields .....	59.9	49.3	53.1	51.1	2.58
York.....	63.3	47.3	52.8	51.0	2.98
Loughborough .....	65.0	47.9	54.3	52.4	3.06
Ardrossan .....	59.7	49.6	53.5	51.3	3.87
Donaghadee.....	59.6	48.8	53.3	52.1	3.22
Holyhead.....	60.6	52.8	55.7	53.5	3.35
Liverpool .....	61.2	50.9	54.5	51.9	3.56
Parsonstown .....	61.6	47.5	53.1	51.1	3.49
Valencia .....	61.7	51.5	56.3	53.9	4.87
Roche's Point .....	61.9	51.0	55.4	53.2	4.39
Pembroke .....	60.2	53.1	56.2	53.8	3.89
Sailly .....	61.8	54.8	58.4	56.2	3.69
Jersey .....	65.2	51.9	59.8	57.1	3.51
Hurst Castle .....	64.2	52.2	57.2	55.8	3.35
Dover .....	62.9	53.0	57.9	55.3	2.86
LONDON .....	66.3	49.4	55.9	53.6	2.59
Oxford .....	63.8	49.1	54.2	52.3	2.91
Cambridge .....	65.5	48.1	54.4	52.9	2.48
Yarmouth .....	62.0	51.1	56.2	54.4	3.17

**NOTE.**—The Temperature means are for the 15 years 1871-85, the Rainfall means are mainly those for the 20 years 1860-85.





# GENERAL SITUATION AT 8 A.M.

## PRESSURE

Highest, 29.8 ins. and more over Germany and the southeast of France — about 29.8 ins. off our extreme northwestern coast.  
 Lowest, 29.5 ins. and less, in a depression lying off our southwest coast, and in another over the northern half of Scandinavia. Apparently still lower over the north of Russia.  
 Gradients very variable; rather steep for S winds in the Channel, and for NE winds in the east and south of Ireland.  
 Barometer falling in south and east, rising in west and northwest.

## TEMPERATURE

Highest 64° at Llandudno, 61° at Wick and Lorient, 59° at Scilly, 58° at Hunt Castle, 55° in London and at Pembroke.  
 Lowest 40° at Harin, 41° at Lumborough H. and Nieuwstadt, 42° at Munich, Berlin, Aberdeen, and Helsingfors, 43° at Haparanda, and Christiania, 45° at Paris and Lille.  
 It has risen very considerably over England since yesterday, fallen in Germany and France.

## WIND

NE<sup>1</sup> fresh, over Ireland, the Irish Sea, and St. George's Channel,  
 SE<sup>1</sup> to S<sup>1</sup>, and strong in the English Channel, SE<sup>1</sup> light over our Midland and Eastern counties. NW<sup>1</sup> light, in Scotland.

## WEATHER

Fine and bright over Eastern, central France, as well as in Scotland and the northwest of Ireland — dull elsewhere, with rain over the south of England, the Channel and Brittany.  
 Heavy rain has fallen over England, lightning was seen in London last night.

## SEA

Rather rough on our western and southern coasts, slight in the east.

## PROBABLE CHANGES IN SYSTEM NOW PREVALENT

It appears probable that as the new anticyclone in the west spreads eastwards and northwards, the NE<sup>1</sup> wind now prevailing over Ireland will become general over the United Kingdom, with colder, and (after some rain showers) drier weather.

## FORECASTS

For the 24 hours ending at NOON on 25<sup>th</sup> SEPT: 1889.

### DISTRICTS.

### FORECASTS.

0	SCOTLAND NORTH	{ NW <sup>1</sup> and N <sup>1</sup> breezes, light; fair, cold.
1	SCOTLAND EAST	
2	ENGLAND N.E.	NE <sup>1</sup> breezes, moderate to fresh; weather clearing, colder.
3	ENGLAND EAST	Same as No 5
4	MIDLAND COUNTIES	Same as No 2.
5	ENGLAND SOUTH	Wind backing round to E. or NE.; rainy then finer and colder, but not settled.

### DISTRICTS.

### FORECASTS

6	SCOTLAND WEST	Same as No 0 and 1.
7	ENGLAND N.W.	Same as No 2.
8	ENGLAND S.W.	NE <sup>1</sup> winds, increasing; rain at times, colder.
9	IRELAND NORTH	{ NE <sup>1</sup> winds, fresh or moderate; fair as a whole, colder.
10	IRELAND SOUTH	

### WARNINGS

The SOUTH CONE was hoisted last evening in districts 3, 5, 8, and 10, but the signals have been lowered again this morning in district 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.	Ther.		Wind		Wea.	Sea		Bar.	Ther.		Wind		Wea.	Sea.
		D	W	D	F					D	W	D	F		
Skudesnaes ...	29.56	54	49	NW	4	c	3		Holyhead ...	29.72	53	51	E	3	rgm 2
Sumburgh Head ...	29.64	44	40	WNW	2	c	4		Valencia ...	29.59	57	56	WSW	3	rm 4
Stornoway ...	29.73	49	46	"	2	c	2		Scilly ...	29.71	59	59	SSW	6	f 5
Aberdeen ...	29.70	50	44	WNW	3	bc	3		Jersey ...	29.92	62	53	S	3	c 3
Shields ...	29.73	53	48	W	3	c	3		Dungeness ...	29.88	58	50	WSW	3	bc 2
Ardrossan ...	29.72	50	49	SSW	2	c	1		London ...	29.86	57	52	WSW	2	o 3
Malin Head ...	29.67	50	46	SE	3	o	1		Yarmouth ...	29.83	54	47	WNW	4	c 3
Mullaghmore ...	29.62	52	48	ESE	5	o pm	3		Rocheport ...	30.04	65	57	NW	3	b 2
Belmullet ...	29.55	53	51	SE	3	o	4								

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

The report for yesterday morning showed that pressure was highest, 30.0 ins: and upwards, in two areas — one an irregularly shaped system extending from the Bay of Biscay across the western and southern part of the Iberian peninsula to Algeria, the other lying over the Black Sea and its immediate neighbourhood. The lowest reading, 29.3 ins: and less, were found over the north of Scandinavia, but a depression, with readings below 29.7 ins: was approaching the Irish coast from the W<sup>nd</sup>, while a small disturbance with readings below 29.8 ins: was lying near Sicily. The wind was light to moderate from the NW<sup>nd</sup> or W<sup>nd</sup> over France, the North Sea, and the eastern part of Great Britain, from the SW<sup>nd</sup> over Germany, and from the S<sup>nd</sup> or SE<sup>nd</sup> over Central and Northern Russia. In Spain, however, the wind was chiefly NE<sup>ly</sup>, and in Algeria variable, while over Northern Italy and the extreme south of France a faint cyclonic circulation was shown round the depression which existed near Sicily. Rain was falling in the southwest of our islands as well as at some of the German stations, and dull weather prevailed in Spain, Western Algeria and Northern Italy. Elsewhere, however, the sky was clear or nearly so. Temperatures had risen slightly on our southwest coasts as well as in Italy and the south of France, but fallen in most other places; readings ranged from 40° and upwards over the central and southern part of the Mediterranean to 45° or less over the north and east of Great Britain, Central Europe, and the central and northern part of Russia. The highest individual readings were 79° at La Palme, 75° at Malta, 71° at San Fernando, Algiers and Palermo, and 70° at Cagliari, Oran, Tiflis, and Constantinople, the lowest were 38° at St Petersburg and Riga, 33° at Nikolabad and Nicosia, 41° at Oxford and Paris, 42° at Archangel, Kiev, Tsimmerunde and London, and 43° at Uleaborg, Mick and Nauri.

In the course of the day the depression to the westward of Ireland continued to advance steadily in an easterly direction, and a brisk fall of the barometer was therefore reported on our west and southwest coast. The wind in Ireland shifted to the E<sup>nd</sup>, while that over the southwest of England increased to a strong breeze from the S<sup>nd</sup>, and heavy rain occurred at many of the English and Irish 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 WEDNESDAY 25<sup>TH</sup> SEPTEMBER 1889.

Issued by the Meteorological Office, 63, Victoria Street, London. R. H. SCOTT, Secretary.

Issued by the Meteorological Office, 65, 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.			Sea. (0 to 2.)	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.		
SCANDINAVIA.																		
Haparanda ...	29.57	37	2	0	bc	29.77	+0.29	37	36	-6	N	2	bc	*	48	34	-	
Hernösand ...	29.62	40	2	0	bc	29.73	+0.24	42	36	0	2	0	bc	*	42	37	21.18	
Stockholm ...	29.63	48	2	0	0	29.62	+0.05	46	44	0	SE	4	0	*	63	41	0.16	
Wisby ...	29.71	49	W	4	T	29.55	-0.05	50	48	0	S	4	0	*	57	43	0.12	
Bodö ...	29.61	41	2	0	c	29.72	+0.22	41	40	-4	SE	1	bc	1	48	39	-	
Christiansund	29.58	45	S	3	bc	29.64	+0.21	41	40	-2	SE	2	bc	3	50	37	-	
Skudesnaes ...	29.50	44	NNW	2	0	29.43	-0.18	47	43	+2	NNW	4	0	3	50	43	-	
Christiania Fjord (Færder)	29.52	50	S	2	bc	29.41	-0.13	48	48	+2	E	5	T	3	52	?	0.20	
Skagen (The Scaw)	29.48	50	W	3	0	29.23	-0.23	49	47	+1	SE	6	T	4	52	46	0.28	
Fanö ...	29.60	45	SE	5	T	28.94	-0.71	48	47	-3	SEW	6	C	*	54	45	0.51	
Sumburgh Head	29.61	42	N	2	bc	29.69	+0.04	46	45	+5	N	3	bc	3	46	39	0.17	
Stornoway ...	29.64	40	NW	4	C	29.98	+0.28	46	45	+2	N	4	C	4	46	35	0.12	
Wick ...	29.62	41	N	2	bc	29.82	+0.12	48	45	+6	N	7	C	2	50	37	0.07	
Nairn ...	29.63	40	W	2	T	29.90	+0.17	44	40	+4	WNW	4	bc	3	49	35	0.13	
Aberdeen ...	29.62	42	N	1	C	29.78	+0.06	46	42	+4	NW	6	C	5	49	38	0.10	
Leith ...	29.62	44	N	4	bc	29.88	+0.17	46	41	+1	NW	4	bc	*	52	39	-	
Shields ...	29.60	45	NNW	1	0	29.79	+0.15	46	43	-2	NW	5	C	5	48	38	0.20	
Spurn Head ...	29.52	48	NNW	6	T	29.70	+0.12	46	44	-5	NNW	6	bc	5	51	42	0.36	
York ...	29.60	46	N	1	0	29.80	+0.17	45	40	-3	NW	3	bc	*	51	38	0.09	
Loughborough	29.60	50	NNW	4	0	29.85	+0.29	42	40	-7	W	4	C	*	53	37	0.40	
Ardrossan ...	29.60	48	SW	3	0	29.95	+0.24	45	41	0	NW	4	bc	3	52	38	-	
Malin Head ...	29.71	46	NNW	8	C	29.01	+0.26	48	44	0	N	4	bc	3	52	44	0.02	
Mullaghmore ...	29.83	51	NW	6	C	29.00	+0.26	51	47	+2	N	1	bc	3	52	45	0.06	
Belmullet ...	29.87	51	NNW	6	bc	29.09	+0.20	50	46	-1	N	2	C	*	54	46	0.01	
Donaghadee ...	29.71	49	N	3	T	29.99	+0.27	47	44	-3	N	5	bc	3	52	44	0.07	
Barrow-in-Furness	29.63	48	NE	4	bc	29.87	+0.28	43	40	-4	N	2	bc	*	52	40	0.16	
Liverpool (Bidston)	29.66	49	NW	5	bc	29.92	+0.24	47	43	-1	NW	4	bc	3	52	43	0.03	
Holyhead ...	29.72	50	NNW	5	bc	29.97	+0.27	51	46	-1	N	5	bc	5	53	46	0.02	
Parsonstown ...	29.85	50	2	0	bc	29.09	+0.27	40	39	-7	NNW	1	C	*	56	36	-	
Valencia ...	29.95	54	N	3	C	29.15	+0.43	52	49	0	N	2	C	2	58	48	0.01	
Roche's Point...	29.85	53	N	5	bc	29.10	+0.50	47	44	-6	NNW	4	bc	4	60	45	0.15	
Pembroke (St. Ann's Hd.)	29.72	51	N	6	bc	29.99	+0.50	50	46	-5	NNW	5	bc	2	58	46	-	
Silly ...	29.70	55	NNW	8	bc	29.00	+0.62	52	48	-7	N	6	C	5	61	50	0.16	
Prawle Point ...	29.64	54	NE	3	C	29.96	+0.49	50	46	-8	NNW	2	bc	1	60	44	0.03	
Jersey (St. Aubin's)	29.60	63	SW	1	C	29.91	+0.39	52	46	-7	NNW	4	bc	3	64	50	0.08	
Hurst Castle ...	29.50	54	NE	2	T	29.90	+0.37	46	46	-12	NNW	3	bc	3	62	42	0.59	
Dungeness ...	29.51	60	SW	6	T	29.72	+0.12	46	42	-8	N	5	bc	4	60	42	0.30	
London ...	29.58	53	NW	2	0	29.81	+0.26	43	40	-12	NW	4	bc	*	60	41	0.76	
Oxford ...	29.64	48	NNW	4	bc	29.88	+0.37	43	39	-11	NW	4	bc	*	59	40	0.92	
Cambridge ...	29.56	51	NW	1	0	29.80	+0.26	44	42	-8	N	3	bc	*	58	38	1.03	
Yarmouth ...	29.48	52	NW	3	C	29.64	+0.02	46	44	-6	NW	5	C	5	55	41	1.49	
Cuxhaven ...	29.61	48	N	1	T	29.30	-0.54	48	46	+2	WNW	6	bc	*	56	48	0.72	
Berlin ...	29.70	51	SE	3	bc	29.40	-0.48	52	50	+10	SE	3	0	*	57	?	-	
Wiesbaden ...	29.49	*	*	*	*	29.49	-0.37	51	49	+10	NW	4	T	*	57	?	-	
Munich ...	29.49	51	2	0	bc	29.68	-0.20	52	49	+10	SW	5	C	*	57	41	-	
THE NETHERLANDS.																		
The Helder ...	29.36	58	W	4	0	29.41	-0.30	50	47	+2	NW	7	0	4	55	48	1.02	
Brussels (9 a.m.)	?	*	*	*	*	29.60	-0.15	44	43	-6	WNW	2	T	4	62	48	0.71	
Cape Gris Nez	?	60	SW	5	0	?	?	46	43	-6	NW	6	C	6	63	48	0.48	
Paris ...	29.64	57	SE	1	bc	29.73	-0.02	49	46	+4	NNW	2	bc	*	67	?	-	
Brest ...	?	64	N	1	bc	?	?	53	48	-9	N	5	C	5	?	?	0.12	
FRANCE.																		
Lorient ...	29.61	62	S	2	bc	29.93	+0.31	53	49	-8	NNW	3	bc	4	64	50	0.08	
Rochefort ...	29.68	65	SW	3	C	29.89	+0.20	53	52	+2	N	4	0	2	77	55	-	
Belfort ...	29.69	54	SW	1	bc	29.71	-0.09	54	47	+8	W	1	T	*	62	43	-	
Lyons ...	29.67	65	S	3	bc	29.79	-0.05	58	51	+12	SW	2	bc	*	72	?	-	
Nice ...	29.78	60	SE	4	bc	29.80	+0.01	59	58	-2	SE	4	bc	1	70	54	-	
PERIN.																		
Perpignan ...	29.67	65	S	2	bc	29.80	+0.01	59	57	+1	W	2	bc	*	74	58	-	
Biarritz ...	29.58	65	S	2	0	29.82	+0.23	60	58	+4	2	0	T	5	?	?	0.08	
Corunna ...	29.74	62	NW	3	0	29.69	-0.18	61	60	-3	SE	3	T	?	70	57	0.28	
Lisbon ...	29.74	62	NW	3	0	29.69	-0.18	61	60	-3	SE	3	T	?	70	57	0.28	

For Explanation of Columns, see bottom of p 4

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



# WEATHER CHARTS

for 8 a.m. on Wednesday, 25<sup>th</sup> September, 1889.

## BAROMETER, WIND AND 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:

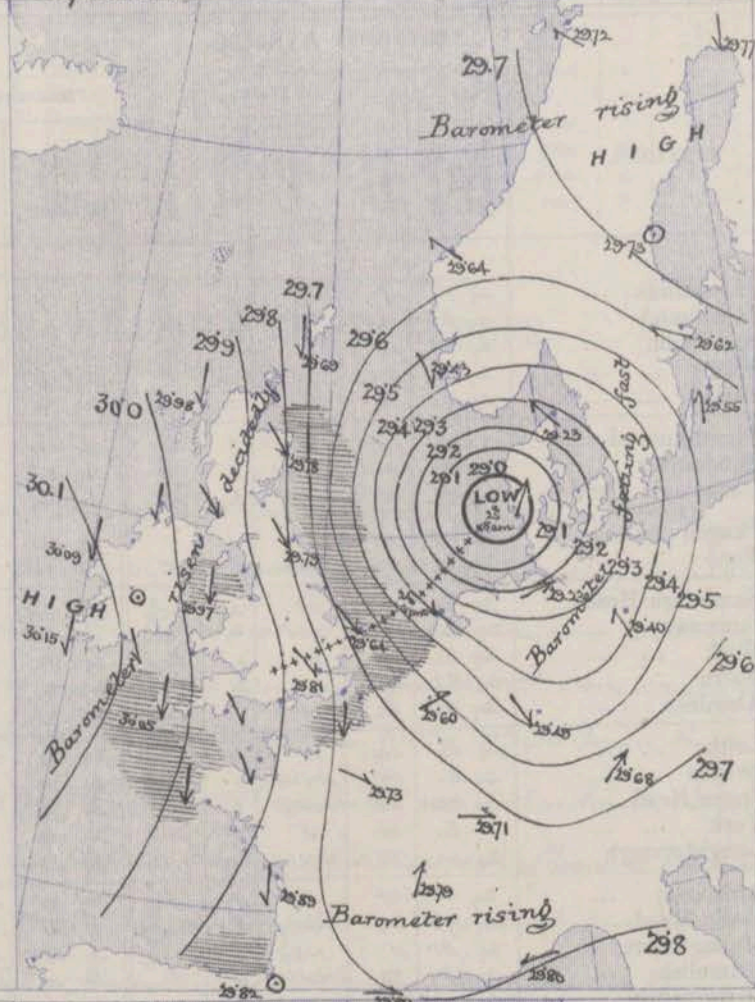
— = Rough. — = High.

## MEAN HEIGHT OF THE BAROMETER

at 8.0 a.m. for the month of September.

During the 15 Years: 1871—1885.

STATIONS.	MEAN READINGS.
Sumburgh Head	29.766
Stornoway	29.780
Wick	29.793
Nairn	29.809
Aberdeen	29.819
Leith	29.846
Shields	29.869
York	29.905
Loughborough	29.924
Ardrossan	29.859
Donaghadee	29.869
Holyhead	29.894
Liverpool	29.899
Parsonstown	29.901
Valencia	29.917
Roche's Point	29.915
Pembroke	29.913
Sailly	29.943
Jersey	29.955
Hurst Castle	29.960
Dover	29.941
LONDON	29.945
Oxford	29.935
Cambridge	29.931
Yarmouth	29.916



## 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.

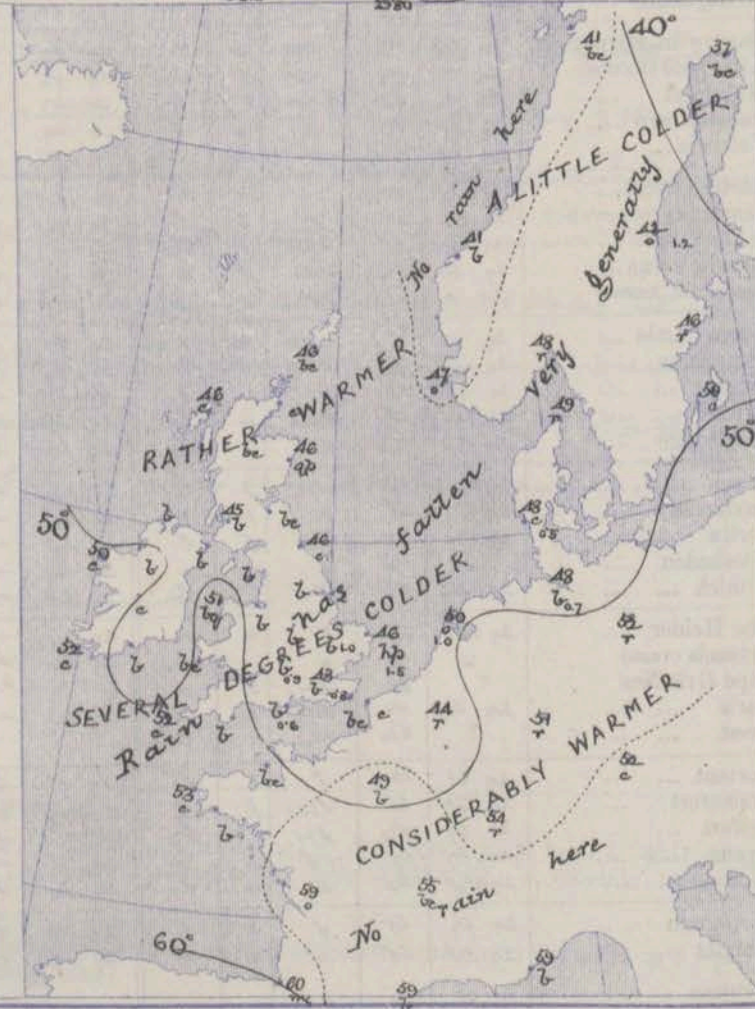
**RAINFALL**—A dotted line separates the districts in which rain has fallen from those where there has been none. Falls of 0.5 in. or more, are quoted in figures.

### 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	46.3	50.9	49.2	3.46
Stornoway .....	56.1	45.7	51.1	49.8	4.13
Wick.....	57.6	45.5	51.8	49.9	2.60
Nairn.....	59.0	46.8	51.2	48.8	2.73
Aberdeen.....	59.2	46.7	52.1	49.8	3.22
Leith.....	62.2	47.6	53.2	50.8	2.47
Shields.....	59.9	49.3	53.1	51.1	2.58
York.....	63.3	47.3	52.8	51.0	2.98
Loughborough.....	65.0	47.9	54.3	52.4	3.06
Ardrossan.....	59.7	49.6	53.5	51.3	3.87
Donaghadee.....	59.6	48.8	53.3	52.1	3.22
Holyhead.....	60.6	52.8	55.7	53.5	3.35
Liverpool.....	61.2	50.9	54.5	51.9	3.56
Parsonstown .....	61.6	47.5	53.1	51.1	3.49
Valencia.....	61.7	51.5	56.3	53.9	4.87
Roche's Point.....	61.9	51.0	55.4	53.2	4.39
Pembroke.....	60.2	53.1	56.2	53.8	3.89
Sailly.....	61.8	54.8	58.4	56.2	3.69
Jersey.....	65.2	54.9	59.8	57.1	3.51
Hurst Castle.....	64.2	52.2	57.2	55.8	3.35
Dover.....	62.9	53.0	57.9	55.3	2.86
LONDON.....	66.3	49.4	55.9	53.6	2.59
Oxford.....	63.8	49.1	54.2	52.3	2.91
Cambridge.....	65.5	48.1	54.4	52.9	2.48
Yarmouth.....	62.0	51.1	56.2	54.4	3.17

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





# GENERAL SITUATION AT 8 A.M.

## PRESSURE

Highest, 30.00 in. to 30.15 in. over Ireland, — 29.7 in. and more over the north of Scandinavia.  
Lowest, Below 29.4 in. over the greater part of the North Sea; Minimum 28.94 in. at Faro.

Gradients steep over the North Sea, moderate to slight elsewhere.

Barometer rising decidedly over the British Isles and north of Scandinavia, falling fast in Denmark and Holstein.

## TEMPERATURE

Highest, 61° at Lisbon, 60° at Biarritz, 59° at Kier and Abolesfort, 52° at Klenica, Seilly, Munich, and Berlin.

Lowest, 37° at Hafaranda, 40° at Rossmore, 41° at Bods and Christiansund, 42° at Gylfing and Heringland, 43° at Oxford and in London.

The minima in the shade recorded early this morning were 35° at Stenavay, Malghemore, and Kier, 37° at Westford, Loughborough, and 38° at Ardrossan, York, and Cambridge.

## WIND

N<sup>1</sup> light to fresh on our western coasts generally — NW<sup>1</sup> fresh to strong in the east.

A NW<sup>1</sup> gale prevails at the Helder, a strong breeze at Copenhagen, strong SSW<sup>1</sup> at Faro.

Slight gales from NW<sup>1</sup> have been felt in some localities.

## WEATHER

Rough, squally, and unsettled over the North Sea, with rain in the Skagerrak, in Germany and the east of France.

Cold showers on our northeast and east coasts — hail at Falmouth.

The rainfall over the South Midland, southern and eastern counties of England has been heavy. (0.7 in. to 1.5 in.)

## SEA

Rough in the northeast, east, and southeast, rather rough in St. George's Channel, moderate or slight in the far west.

## PROBABLE CHANGES IN SYSTEM NOW PREVALENT

There is no indication of any new disturbance at present, but cold showers are likely over our northeastern and eastern counties today, these will probably be followed by a very cold night both there and at our inland stations.

## FORECASTS

For the 24 hours ending at NOON on 26<sup>th</sup> SEPT<sup>r</sup> 1889.

### DISTRICTS.

### FORECASTS.

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

NW<sup>1</sup> and N<sup>1</sup> winds, strong; squally, some showers, quieter and colder later.

NW<sup>1</sup> breezes, fresh; some passing showers, then moderate and dry. Very cold tonight.

### DISTRICTS.

### FORECASTS


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


N<sup>1</sup> breezes, fresh to moderate; cold fair as a whole.

N<sup>1</sup> breezes, falling light; cold, dry.

### WARNINGS

NONE ISSUED.

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

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



# YESTERDAY'S 2 P.M. REPORTS.

	Bar:	Ther:		Wind		Wea:	Sea		Bar:	Ther:		Wind		Wea:	Sea
		D	W	D	F					D	W	D	F		
Skudesnaes ...	29.56	56	47	NW	2	C	2	Holyhead ...	29.68	51	48	N	5	C	5
Sumburgh Head ...	29.61	45	41	N	1	C	3	Valencia ...	29.86	57	51	N	4	Br	5
Stornoway ...	29.64	41	41	N	2	P	2	Scilly ...	29.59	57	54	NNE	7	O	6
Aberdeen ...	29.65	45	39	NW	3	CC	3	Jersey ...	29.56	63	60	SE	5	C	4
Shields ...	29.61	48	47	NE	3	P	3	Dungeness ...	29.55	60	57	SW	6	C	5
Ardrossan ...	29.69	51	44	NW	4	C	3	London ...	29.50	60	57	SW	2	omg	*
Malin Head ...	29.75	51	46	NW	5	CC	3	Yarmouth ...	29.51	55	55	WSW	3	omg	4
Mullaghmore ...	29.82	53	49	NW	5	CV	3	Rochefort ...	29.62	73	64	SE	5	C	3
Belmullet ...	29.84	54	48	NW	4	CC	*								

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

The report for yesterday morning showed that pressure was highest, 30.1 in. and upwards, over the south of Russia, but high 29.9 in. and upwards, over the extreme south of Spain. The lowest readings, 29.2 in. and less, were found in a depression lying over the White Sea, but another disturbance, with readings below 29.5 in. was reported over the southwest of our Islands, while a third, with readings below 29.7 in. was lying near Malta. The wind was light from the NW<sup>nd</sup> or N<sup>nd</sup> in Scotland, fresh from NE. on our western coast, and moderate to strong from the S<sup>nd</sup> or SE<sup>nd</sup> over the Channel and Bay of Biscay. Over Germany, the Baltic, and Russia, however, as well as in Spain and Algeria it was light from the SW<sup>nd</sup>, while in Italy and the south of France it was very variable. The weather was fine in Scandinavia and the north of our Islands, as well as in Algeria and the east and south of France. Elsewhere, however, the sky was cloudy or overcast with rain over England and the northwest of France, as well as at some of the Russian stations. Temperature had fallen a little in Scandinavia and Scotland and also over the greater part of Southern Europe but risen in most other places; readings ranged from a little above 75° in the neighbourhood of the south of Italy, and from a little above 70° over the central part of the Mediterranean to 40° or a little less in some parts of Central Europe. The highest individual readings were 76° at Malta and Liss, 75° at Brindisi, 73° at Cagliari, 72° at Algiers, 71° at Oran and La Calle, 69° at Bilbao and 68° at Liss and Palermo; the lowest were 36° at Prague, 33° at Kiev, 40° at Breslau, Vienna and Nurn, and 41° at St. Petersburg, Warsaw, Lemberg, Munster, Wiesbaden, and Sumburgh Hd.

In the course of the day the depression over the southwest of our Islands appears to have travelled southwards, and in its rear the wind increased to a fresh gale from NNE at the mouth of the Channel. Another disturbance was however, found over the east of England, and this system after occasioning very heavy rain over our eastern, midland, and southern counties, travelled eastwards to the North Sea, the wind in its rear shifting to the N<sup>nd</sup> with colder weather over England.

### EXPLANATION OF COLUMNS GIVEN ON PAGE 1.

**WEATHER.**—Beaufort Scale is b. blue sky; c. detached clouds; d. drizzling rain; f. fog; g. dark, gloomy; h. hail; l. lightning; m. misty (hazy); o. overcast; p. passing showers; q. 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, 26<sup>th</sup> September, 1889.*  
 Issued by the Meteorological Office, 63, 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 8.)	SHADE TEMP.		Amount of Rainfall.		
				Dirce.	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.	Dirce.	Force. (0 to 12.)		Weather.	Max.		Min.	
SCANDINAVIA.	Haparanda ...	29.92	42	2	0	bc	29.91	+ .14	41	40	+ .14	NE	2	r	*	50	32	0.06	
	Hernösand ...	29.72	47	NE	4	r	29.63	- .10	49	49	+ .7	NE	4	r	*	?	36	0.08	
	Stockholm ...	29.41	52	E	4	r	29.43	- .19	50	49	+ .4	SE	2	o	+	52	43	0.55	
	Wisby ...	29.38	54	SEW	4	r	29.40	- .15	51	50	+ .1	SEW	4	o	+	53	45	0.16	
	Bodö ...	29.78	43	2	0	b	29.86	+ .14	46	40	+ .3	ENE	4	b	2	46	37		
	Christiansund	29.69	47	NE	6	b	29.74	+ .10	45	43	+ .4	ENE	2	b	4	52	39		
	Skudesnaes ...	29.50	50	NW	6	bc	29.59	+ .16	50	45	+ .3	NW	7	b	4	57	48		
	Christiania Fjord (Fæder)	29.27	47	NNE	9	r	29.33	- .08	44	43	- .4	NW	8	r	4	48	43	1.62	
	Skagen (The Seaw)	29.17	49	E	3	r	29.30	+ .07	48	47	- .1	N	5	o	4	52	45	1.18	
	Fanö ...	29.26	48	NW	7	o	29.49	+ .55	50	48	+ .2	NW	6	r	*	55	46	0.08	
BRITISH ISLANDS.	Sumburgh Head	29.52	47	N	4	c	29.83	+ .14	45	44	- .1	NW	1	bc	3	51	42	0.01	
	Stornoway ...	30.00	44	2	0	b	29.70	- .28	51	51	+ .5	SW	6	r	5	51	35	0.15	
	Wick ...	29.94	45	NW	2	bc	29.82	- .00	46	44	- .2	SW	3	r	2	50	32	0.05	
	Nairn ...	29.99	44	NW	3	b	29.84	- .06	43	42	- .1	2	0	r	1	53	33	0.05	
	Aberdeen ...	29.94	45	NW	4	bcqp	29.92	+ .14	42	40	- .4	SW	1	op	4	50	35	0.04	
	Leith ...	30.00	45	N	3	bc	29.96	+ .08	46	45	0	SW	1	r m	*	57	39	0.06	
	Shields ...	29.95	49	NW	2	bc	29.99	+ .20	46	45	0	NW	2	o	4	56	36		
	Spurn Head ...	29.93	53	NW	6	bc	30.06	+ .36	47	45	+ .1	N	4	c	0	53	44		
	York ...	29.96	50	N	1	b	30.07	+ .27	46	43	+ .1	SW	1	c	*	55	35		
	Loughborough	30.01	49	NW	4	b	30.14	+ .29	41	40	- .1	2	0	cmw	*	56	34		
GERMANY.	Ardrossan ...	30.01	49	NW	4	b	29.93	- .08	51	50	+ .1	SSW	3	r m	2	55	42	0.10	
	Malin Head ...	30.06	50	NW	2	bc	29.84	- .14	56	56	+ .8	SW	5	od	3	56	47	0.06	
	Mullaghmore ...	30.11	50	W	4	c	29.99	- .06	56	56	+ .5	SW	5	d	3	57	47	0.05	
	Belmullet ...	30.12	52	WSW	2	o	30.01	- .08	56	56	+ .6	NW	5	o	*	56	49	0.08	
	Donaghadee ...	30.08	50	NNE	2	bc	29.99	- .00	55	55	+ .8	W	3	o	1	56	43	0.03	
	Barrow-in-Furness	30.01	51	NW	2	b	?	?	52	49	+ .9	?	2	?	*	54	42		
	Liverpool (Bidston)	30.06	50	NW	4	bc	30.11	+ .19	51	47	+ .4	W	2	o	3	54	47		
	Holyhead ...	30.09	51	NW	3	bc	30.11	+ .14	51	51	0	SW	5	dgm	4	54	49	0.02	
	Parsonstown ...	30.15	51	2	0	c	30.12	+ .03	54	53	+ .4	SW	2	o	*	55	40		
	Valencia ...	30.20	55	NW	1	cm	30.18	+ .03	59	56	+ .7	SW	4	om	4	59	50		
FRANCE AND NETHERLANDS.	Roche's Point...	30.16	55	NW	3	bc	30.19	+ .09	56	53	+ .9	W	3	bc	3	59	47		
	Pembroke (St. Ann's Hd.)	30.14	52	NW	2	bc	30.19	+ .20	55	52	+ .3	SW	5	og	4	55	49		
	Scilly ...	30.18	53	NW	4	c	30.26	+ .21	57	53	+ .8	W	3	c	4	57	51		
	Prawle Point ...	30.14	50	NW	2	b	30.26	+ .30	54	51	+ .4	NW	3	b	2	61	42		
	Jersey (St. Aubin's)	30.12	54	NW	3	b	30.28	+ .37	54	49	+ .1	NW	2	bm	2	57	43		
	Hurst Castle ...	30.08	53	NW	2	b	30.22	+ .32	52	52	+ .6	NW	3	bcw	1	58	41		
	Dungeness ...	29.95	49	N	3	bc	30.16	+ .44	43	40	- .3	N	3	bc	2	?	36		
	London ...	30.02	50	NW	3	b	30.17	+ .36	44	41	+ .1	WSW	3	bc	*	55	36		
	Oxford ...	30.12	45	NW	2	b	30.19	+ .31	45	43	+ .2	NW	3	c	*	56	37		
	Cambridge ...	30.01	48	N	2	b	30.15	+ .38	49	46	+ .5	W	1	c	*	55	37		
PENIN- SULA.	Yarmouth ...	29.86	49	NW	5	cg	30.08	+ .44	43	42	- .3	NW	4	bcw	5	50	38	0.05	
	Cuxhaven ...	29.25	52	NW	8	r	29.65	+ .42	52	49	+ .4	NW	7	bcq	*	53	?	0.36	
	Berlin ...	29.51	49	NW	4	o	29.73	+ .33	49	46	- .3	NW	5	c	*	54	46	0.20	
	Wiesbaden ...	*	*	*	*	*	30.08	+ .59	48	45	- .3	W	4	b	*	52	45	0.24	
	Munich ...	29.99	41	SW	6	o	30.16	+ .48	43	40	- .9	W	6	bc	*	66	39	0.20	
	The Helder ...	29.73	53	NW	6	bc	29.95	+ .54	53	47	+ .3	NW	4	c	4	54	48	0.12	
	Brussels (9 a.m.)	*	*	*	*	*	?	?	49	48	+ .3	NW	5	b	5	55	45		
	Cape Gris Nez	?	53	NW	6	bc	?	?	49	46	- .4	ENE	1	b	1	63	45		
	Paris ...	30.06	50	NW	3	b	30.26	+ .53	36	36	- .13	S	1	b	*	56	34		
	Brest ...	?	54	N	2	bc	?	?	49	46	- .4	ENE	1	b	*	63	45		
FRANCE AND NETHERLANDS.	Lorient ...	30.15	55	NNE	3	b	30.32	+ .39	49	46	- .4	E	1	b	2	61	46		
	Rochefort ...	30.10	59	NNE	4	b	30.33	+ .44	48	46	- .11	E	4	b	2	66	?		
	Belfort ...	29.93	54	NW	1	bc	30.23	+ .52	40	37	- .14	SW	1	b	*	59	35	0.24	
	Lyons ...	30.05	49	NE	1	o	30.27	+ .48	43	41	- .12	NW	2	b	*	61	40	0.08	
	Nice ...	29.73	66	SW	4	b	29.80	- .00	62	57	+ .3	NE	4	b	1	?	57		
	Perpignan ...	29.89	71	W	3	o	30.12	+ .32	59	53	0	NW	2	b	*	75	56		
	Biarritz ...	30.00	65	NNE	1	o	30.21	+ .39	53	50	- .7	E	4	o	2	72	52		
	Corunna ...	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*		
	Lisbon ...	29.86	67	N	14	b	29.97	+ .28	63	58	+ .2	NE	4	b	5	73	61		

For Explanation of Columns, see bottom of p. 4.

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



# WEATHER CHARTS

for 8 a.m. on

Thursday, 26<sup>th</sup> September,

1889.

## BAROMETER, WIND AND 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:

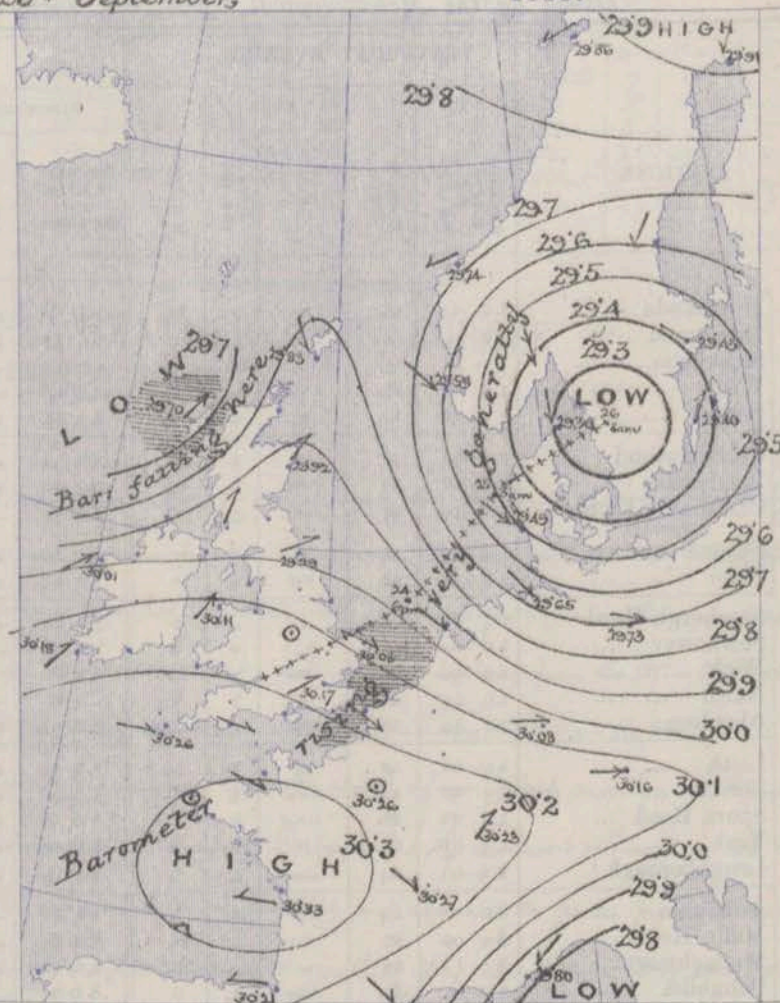
— Rough. — High.

## MEAN HEIGHT OF THE BAROMETER

at 8.0 a.m. for the month of September.

During the 15 Years: 1871—1885.

STATIONS.	MEAN READINGS.
Sumburgh Head	29.766
Stornoway	29.780
Wick	29.793
Nairn	29.809
Aberdeen	29.819
Leith	29.846
Shields	29.869
York	29.905
Loughborough	29.924
Ardrossan	29.850
Donaghadee	29.869
Holyhead	29.894
Liverpool	29.899
Parsonstown	29.904
Valencia	29.917
Roche's Point	29.915
Pembroke	29.913
Silly	29.943
Jersey	29.955
Hurst Castle	29.960
Dover	29.941
LONDON	29.945
Oxford	29.935
Cambridge	29.931
Yarmouth	29.916



## 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.

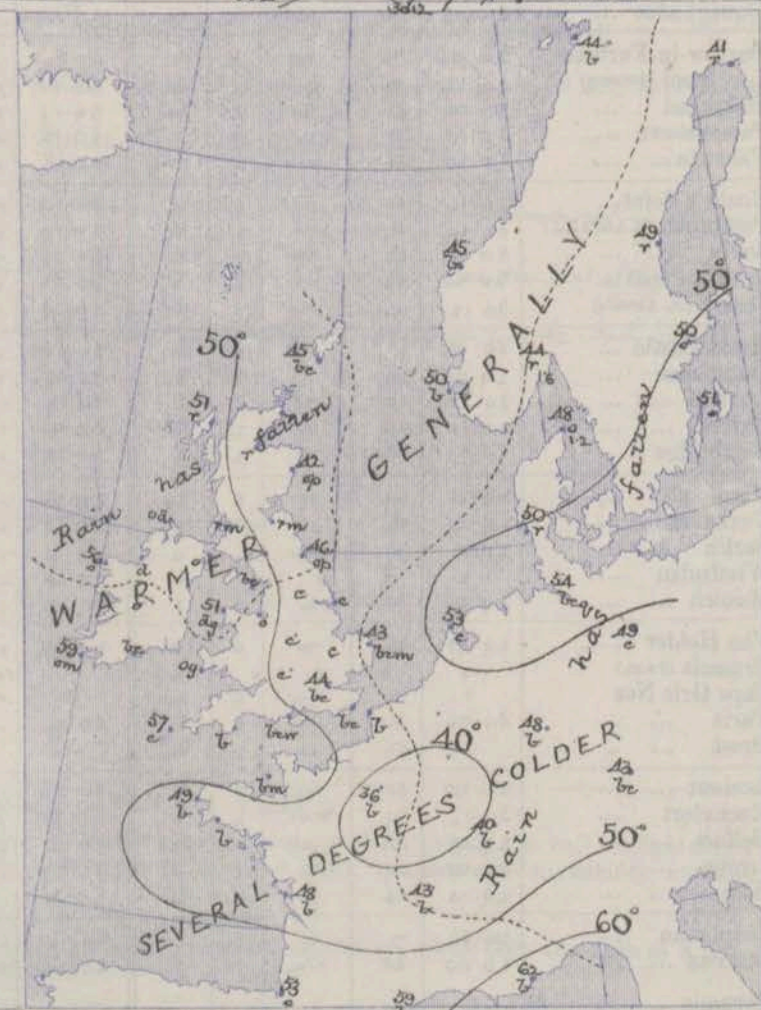
**RAINFALL**—A dotted line separates the districts in which rain has fallen from those where there has been none. Falls of 0.5 in. or more, are quoted in figures.

### 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	46.3	50.9	49.2	3.46
Stornoway.....	56.1	45.7	51.1	49.8	1.13
Wick.....	57.6	45.6	51.8	49.9	2.66
Nairn.....	59.0	46.8	51.2	48.8	2.73
Aberdeen.....	59.2	46.7	52.1	49.8	3.22
Leith.....	62.2	47.6	53.2	50.8	2.47
Shields.....	59.9	49.3	53.1	51.1	2.58
York.....	63.3	47.3	52.8	51.0	2.98
Loughborough.....	65.0	47.9	54.3	52.4	3.06
Ardrossan.....	59.7	49.6	53.5	51.3	3.87
Donaghadee.....	59.6	48.8	53.3	52.1	3.22
Holyhead.....	60.6	52.8	55.7	53.5	3.35
Liverpool.....	61.2	50.9	54.5	51.9	3.56
Parsonstown.....	61.6	47.5	53.1	51.1	3.49
Valencia.....	61.7	51.5	56.3	53.9	4.87
Roche's Point.....	61.9	51.0	55.4	53.2	4.39
Pembroke.....	60.2	53.1	56.2	53.8	3.89
Silly.....	61.8	54.8	58.4	56.2	3.69
Jersey.....	65.2	54.9	59.8	57.1	3.51
Hurst Castle.....	64.2	52.2	57.2	55.8	3.35
Dover.....	62.9	53.0	57.9	55.3	2.86
LONDON.....	66.3	49.4	55.9	53.6	2.59
Oxford.....	63.8	49.1	54.2	52.3	2.91
Cambridge.....	65.5	48.1	54.4	52.9	2.48
Yarmouth.....	62.0	51.1	56.2	54.4	3.17

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





# GENERAL SITUATION AT 8 A.M.

PRESSURE	Highest 30.20 ins. to about 30.35 ins. over France, the Bay of Biscay and southwest of England. Lowest 29.3 ins. and less, in a depression over the south of Sweden, 29.7 ins. and less in another near Stornoway, 29.8 ins. and less over the Gulf of Genoa, and 30.0 ins. and less, over the southern part of Spain. Gradient steep (but decreasing) for NW winds over the North Sea, moderate for SW winds in the Hel, slight in the St. and S. Barometer falling in the north and west, rising in the east and south.
TEMPERATURE	Highest 63° at Lisbon, 62° at Nice, 59° at Valencia, 59° at Sicily, 56° at Malin Head. Lowest 36° at Paris, 40° at Belfast, 41° at Loughborough and Kapurthala, 42° at Aberdeen, 44° in London. It has begun to rise decidedly at the Irish and English stations. Sharp frost occurred on the grass in south London early this morning.
WIND	N <sup>W</sup> and NW <sup>W</sup> , strong to a gale on eastern shores of North Sea, S <sup>W</sup> light, in the south of Sweden. W <sup>W</sup> moderate on our eastern coasts - SW <sup>W</sup> fresh in the west and northwest. W <sup>W</sup> light in the Channel, and fresh over Germany - E <sup>W</sup> light over the Bay of Biscay. The NW gale blew rather strongly on the eastern shores of the North Sea yesterday. Dull and rainy in Denmark and Sweden - clear and bright in Norway.
WEATHER	Fine over France and the south and east of England - Dull at our western and northern stations, with rain at several places. Breeze over London moving from northwest. Rainfall yesterday was very heavy over the Skager Rack.
SEA	Still rough over the North Sea, and has become rather so at Stornoway - moderate on our western coasts, smooth or slight in the Channel.

## PROBABLE CHANGES IN SYSTEM NOW PREVALENT

The new disturbance is not at present of a threatening character, but the rainy weather in the northwest and north seems likely to become general before long.

## FORECASTS

For the 24 hours ending at NOON on 27<sup>TH</sup> SEPTEMBER. 1889.

DISTRICTS.	FORECASTS.	DISTRICTS.	FORECASTS
0 { SCOTLAND NORTH	SW <sup>W</sup> to W <sup>W</sup> winds, strong; unsettled, rain at times	6 { SCOTLAND WEST	Same as No. 0.
1 { SCOTLAND EAST	SW <sup>W</sup> breezy; showery, unsettled.	7 { ENGLAND N.W.	
2 { ENGLAND N.E.		8 { ENGLAND S.W.	Same as Nos. 3. to 5.
3 { ENGLAND EAST	SW <sup>W</sup> breezy; fair to rainy and unsettled.	9 { IRELAND NORTH	Same as No. 0.
4 { MIDLAND COUNTIES		0 { IRELAND SOUTH	
5 { ENGLAND SOUTH			
		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:	Ther:		Wind		Wea:	Sea		Bar:	Ther:		Wind		Wea:	Sea
		D	W	D	F					D	W	D	F		
Skudesnaes ...	29.44	57	48	NW	6	c	3	Holyhead ...	30.06	52	47	NW	4	bc	4
Sumburgh Head ...	29.77	48	47	N	5	c	4	Valencia ...	30.19	57	52	NW	2	cm	2
Sornoway ...	30.00	50	48	N	5	c	3	Scilly ...	30.13	54	49	NW	4	bc	4
Aberdeen ...	29.85	49	45	NW	6	cq	5	Jersey ...	30.04	56	48	N	3	b	3
Shields ...	29.86	54	49	NW	7	c	6	Dungeness ...	29.87	55	46	N	5	b	3
Ardrossan ...	29.99	53	47	NW	4	b	3	London ...	29.94	55	45	NW	4	b	4
Malin Head ...	30.05	53	47	NW	2	c	3	Yarmouth ...	29.77	49	46	NW	5	cq	5
Mullaghmore ...	30.09	53	50	NW	4	cm	2	Rochefort ...	30.01	65	58	N	4	c	2
Belmullet ...	30.13	53	47	NW	1	bc	4								

## 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 which had been formed over Central Russia, and high, 30.1 ins. and upwards, in another system which had appeared off the west of Ireland. The lowest readings, 29.0 ins. and less, were found in a well defined and deep depression, the centre of which lay near Fano, but a shallower disturbance with readings below 29.7 ins. was lying off the southwest of Spain. The wind was moderate to strong from the NW<sup>nd</sup> or N<sup>nd</sup> over our Islands and their immediate neighbourhood, but SW<sup>ly</sup> or S<sup>ly</sup> over Germany and in the Baltic, and SE<sup>ly</sup> or E<sup>ly</sup> in the south of Scandinavia - E<sup>ly</sup> breezes were also reported over Spain and the south of France, but in Italy the wind was very variable, while in Algeria it was chiefly S<sup>ly</sup>. The weather was fine over the greater part of western Europe, as well as in Algeria, the North of Scandinavia and extreme south of Russia. Elsewhere, however, the sky was cloudy or overcast, with rain in many places and fog at Buda Pesth. Temperature had risen several degrees over Central Europe & to a less extent in the northern parts of our Islands, but fallen in most other localities; readings ranged from 70° and upwards, over the central and southern parts of the Mediterranean to a little below 40° over Lapland and central Finland. The highest individual readings were 77° at Sfax, 75° at Cagliari, Brindisi and Malta, 73° at Algiers, 72° at Barcelona and La Calle, 70° at Sanjeunire and 68° at Oran and Palermo; the lowest were 34° at Naparanda and Uleaborg, 38° at Kuopio, 40° at Parsonstown, 41° at St Petersburg, Bodo and Christiansund, and 42° at Archangel, Moscow, Hernösand and Loughborough.

In the course of the day the depression near Fano moved slowly northeastward and began to fill up. In the extreme west of our Islands, however, a new fall of the barometer set in, and the wind backed to the westward, with an increase of cloud. A sharp ground frost was experienced over England at night.

### EXPLANATION OF COLUMNS GIVEN ON PAGE 1.

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

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

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

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



# DAILY WEATHER REPORT.

for FRIDAY 27<sup>TH</sup> SEPTEMBER 1889.

Issued by the Meteorological Office, 63, Victoria Street, London. R. H. SCOTT, Secretary.

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For Explanation of Columns, see bottom of p. 4.

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



# WEATHER CHARTS

for 8 a.m. on

Friday, 27<sup>th</sup> September,

1889.

## BAROMETER, WIND AND 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:

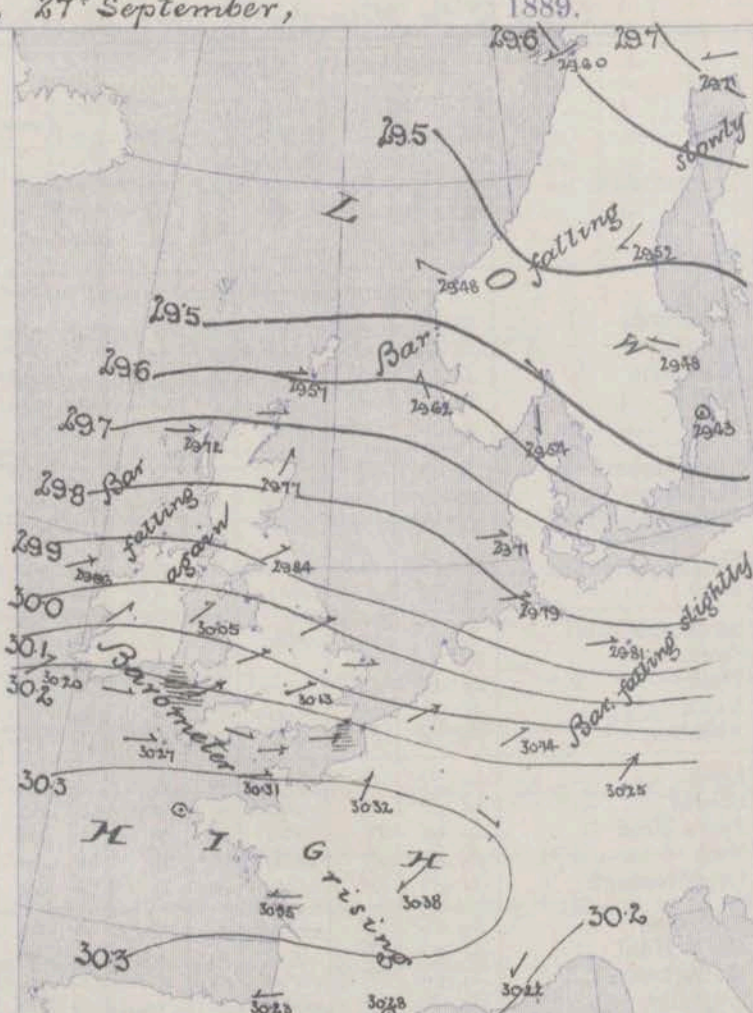
— = Rough. — = High.

## MEAN HEIGHT OF THE BAROMETER

at 8.0 a.m. for the month of September.

During the 15 Years: 1871—1885.

STATIONS.	MEAN READINGS.
Sumburgh Head	29.766
Stornoway	29.780
Wick	29.793
Nairn	29.809
Aberdeen	29.819
Leith	29.846
Shields	29.869
York	29.905
Loughborough	29.924
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Holyhead	29.894
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Roche's Point	29.915
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Silly	29.943
Jersey	29.955
Hurst Castle	29.960
Dover	29.941
LONDON	29.945
Oxford	29.935
Cambridge	29.931
Yarmouth	29.916



## 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.

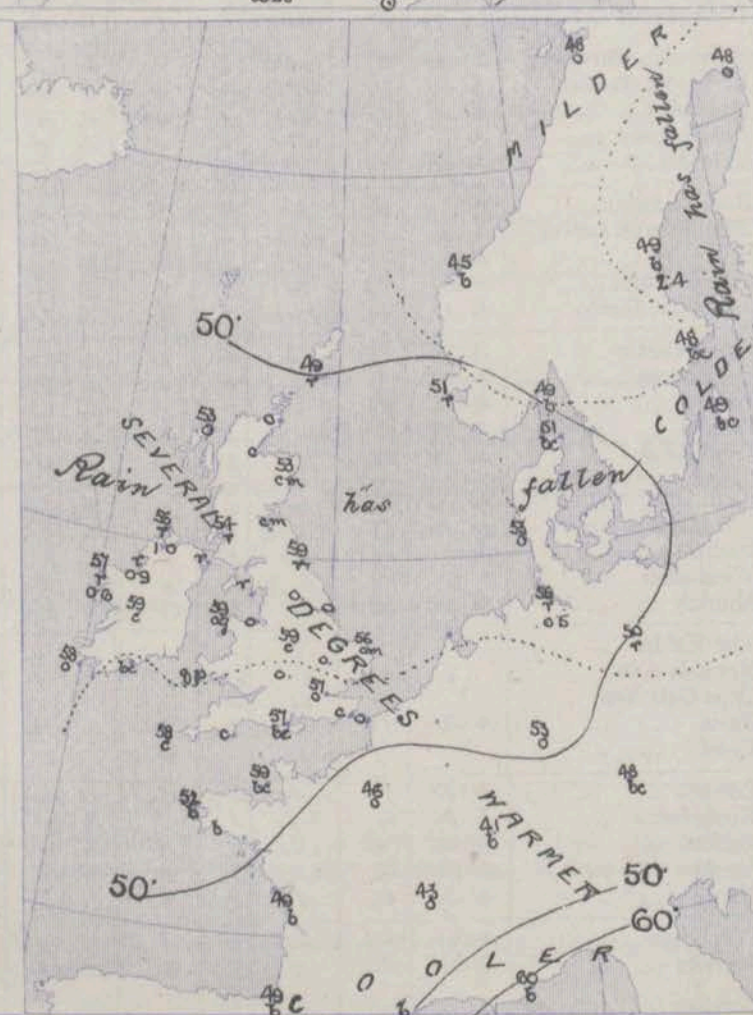
**RAINFALL**—A dotted line separates the districts in which rain has fallen from those where there has been none. Falls of 0.5 in. or more, are quoted in figures.

### MEANS OF TEMPERATURE IN SHADE, AND RAINFALL.

(For the month of September.)

STATIONS.	TEMPERATURE.				RAINFALL. (Inches.)
	Daily Max.	Daily Min.	Dry.	Wet.	
Sumburgh Head	55.2	46.3	50.9	40.2	3.46
Stornoway	56.1	45.7	51.1	49.8	4.13
Wick	57.6	45.6	51.8	49.9	2.66
Nairn	59.0	46.8	51.2	48.8	2.78
Aberdeen	59.2	46.7	52.1	49.8	3.22
Leith	62.2	47.6	53.2	50.8	2.47
Shields	59.9	49.3	53.1	51.1	2.58
York	63.3	47.3	52.8	51.0	2.98
Loughborough	65.0	47.9	54.3	52.4	3.06
Ardrossan	59.7	49.6	53.5	51.3	3.87
Donaghadee	59.6	48.8	53.3	52.1	3.22
Holyhead	60.6	52.8	55.7	53.5	3.35
Liverpool	61.2	50.9	54.5	51.9	3.56
Parsonstown	61.6	47.5	53.1	51.1	3.49
Valencia	61.7	51.5	56.3	53.9	4.87
Roche's Point	61.9	51.0	55.4	53.2	4.39
Pembroke	60.2	53.1	56.2	53.8	3.89
Silly	61.8	54.8	58.4	50.2	3.69
Jersey	65.2	54.9	59.8	57.1	3.51
Hurst Castle	64.2	52.2	57.2	55.8	3.35
Dover	62.9	53.0	57.9	55.3	2.80
LONDON	66.3	49.4	55.9	53.0	2.59
Oxford	63.8	49.1	54.2	52.3	2.91
Cambridge	65.5	48.1	54.4	52.9	2.48
Yarmouth	62.0	51.1	56.2	51.4	3.17

NOTE.—The Temperature means are for the 15 years 1871-85, the Rainfall means are mainly those for the 20 years 1860-85.





# GENERAL SITUATION AT 8 A.M.

PRESSURE	<p>Highest, 30.20 in.: to 30.35 in.: in a high pressure area covering the Bay of Biscay, France and south and east of England, 29.6 in.: and more over England and N. of Scotland.</p> <p>Lowest, 29.5 in.: and less, over the south of Sweden and off the west of Norway.</p> <p>Gradients slight in the south, moderate elsewhere. Barometer rather unsteady—falling in northwest.</p> <p>The depressions noticed over the south of Sweden and the Orkney Islands have almost entirely filled up.</p>
TEMPERATURE	<p>Highest, 60° at Kier and Hook Point, 58° at Holyhead, 58° at Valencia and Sicily, 57° in London, 55° in north of Scotland, 48° at Haparanda.</p> <p>Lowest, 41° at Belfort, 43° at Lyons, 46° at Paris.</p> <p>It has risen decidedly over the British Isles, Germany, and the greater part of France since yesterday; air is soft and mild in our Islands.</p>
WIND	<p>Light from the E. over Sweden, Lapland, and the northern parts of Norway.</p> <p>W. and SW. over the British Isles and North Sea—fresh at the western stations, moderate in the east.</p> <p>Variable over France—SW. to W. over Germany—E. over the Bay of Biscay.</p> <p>Light over Spain, the west and south of France, and in Sweden.</p>
WEATHER	<p>Cloudy or overcast elsewhere, with rain in several parts of our Islands.</p> <p>Rainfall has been heavy (0.6 in. to 1.0 in.) in the northwest and north of Ireland, slight on our other western and northern coasts and on our east coast.</p>
SEA	<p>Slight or smooth on our east and south coasts, moderate generally elsewhere, but rough at C. Fin. K. and G. and G. and G.</p>

## PROBABLE CHANGES IN SYSTEM NOW PREVALENT

A continuation of mild W. to SW. breezes is likely, with rain in the west and north, and some slight showers in the south and east.

## FORECASTS

For the 24 hours ending at NOON on 28<sup>th</sup> SEPT 1889.

### DISTRICTS.

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

### FORECASTS.

W. and SW. winds, mild, changeable, showery.

W. breezes; cloudy, mild, rain at times.

### DISTRICTS.

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

### FORECASTS

SW winds, freshening; mild, rainy.

### WARNINGS

NONE ISSUED

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

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



# YESTERDAY'S 2 P.M. REPORTS.

	Bar:	Ther:		Wind		Wea:	Sea		Bar:	Ther:		Wind		Wea:	Sea.
		D	W	D	F					D	W	D	F		
Skudesnaes ...	29.60	54	48	NW	8	C	4		Holyhead ...	30.08	58	56	W	0	5
Sumburgh Head ...	29.71	48	47	SE	2	0	3		Valencia ...	30.22	60	58	SW	5	4
Stornoway ...	29.66	58	58	W	5	0	4		Scilly ...	30.29	61	57	W	3	4
Aberdeen ...	29.77	50	48	W	2	C	4		Jersey ...	30.33	59	52	W	3	3
Shields ...	29.89	57	56	W	4	0	4		Dungeness ...	30.18	59	52	WNW	4	3
Ardrossan ...	29.86	56	56	SW	4	0	3		London ...	30.18	59	52	W	2	*
Malin Head ...	29.86	57	57	W	6	0	4		Yarmouth ...	30.08	54	50	W	4	4
Mullaghmore ...	30.01	59	58	W	6	0	4		Rochefort ...	30.37	64	56	WNW	3	2
Belmullet ...	30.02	58	58	W	5	0	*								

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

The report for yesterday morning showed that pressure varied from 30.3 ins: and more over Central Russia, and from between 30.20 ins: and 30.35 ins: in another high pressure system over the Bay of Biscay, France and southwest of Ireland, to 29.3 ins: and less, in a deep depression which was filling up over the south of Sweden, to 29.7 ins: and less, in another similar system which was approaching the Shetland Isles and north of Scotland from the westward, and to 29.8 ins: in a third depression which had been developed over the Gulf of Genoa. The winds were consequently very variable, mainly SE<sup>4</sup> over Russia and Finland, SW<sup>3</sup> and W<sup>3</sup> over our Islands and Germany, NW<sup>3</sup> and N<sup>4</sup> in Denmark and the south of Norway. Over the northern parts of the Mediterranean there was a cyclonic circulation round the depression which lay over the Gulf of Genoa. Weather was fine and bright over Spain, France and the south of England, cloudy, or overcast elsewhere and unsettled. Rain was falling in many parts of the British Isles, northern, and eastern Europe, and in the north of Sweden the fall was heavy. Temperature (after being low in the night) was rising in the British Isles and the distribution was somewhat peculiar. The highest morning readings were 76° at Malta, 74° at La Gelle, 73° at Oron and Brindisi, 72° at Algiers, and 71° at Cagliari; 69° at Langunaine, 68° at Barcelona and Naples, 66° at Rome and Sighov; they exceeded 50° in the west and south of the British Isles, in the Netherlands, the Baltic Provinces and south of Russia also. The lowest values were (1.) 36° at Le Mans and Paris, 40° at Belfast, 41° at Loughborough, 43° at Yarmouth, Dungeness, Lyons and Munich; (2.) 39° at Archangel, 41° at Haparanda, 43° at Uleaborg, 45° at Moscow, and 46° at St Petersburg.

Much rain fell in Sweden and the northwest of Ireland later, and smaller quantities on our southern and northern coasts generally, and at the German stations.

### EXPLANATION OF COLUMNS GIVEN ON PAGE 1.

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

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

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



# DAILY WEATHER REPORT.

for *Saturday, 28<sup>th</sup> September, 1889.*  
*Issued by the Meteorological Office, 63, Victoria Street, London. R. H. SCOTT, Secretary.*

STATIONS.	YESTERDAY EVENING.						8 A.M. TO DAY.										PAST 24 HOURS.		
	Barometer at 3 p.m. and Sea Level.	Temp. in Shade.	WIND.		Weather.	BAROMETER.		SHADE TEMP.			WIND.		Weather.	Sea. (0 to 9.)	SHADE TEMP.		Amount of Rainfall.		
			Dirce.	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.	Dirce.	Force. (0 to 12.)			Max.	Min.			
SCANDINAVIA.	Haparanda ...	29.54	50	NE	4	T	29.38	- .33	45	45	- 3	2	0	T	*	50	45	0.51	
	Hernösand ...	29.39	49	S	4	T	29.23	- .29	48	47	- 1	NE	2	C	*	54	48	0.51	
	Stockholm ...	29.35	48	SE	2	O	29.24	- .24	47	46	- 1	S	2	O	*	59	43	0.08	
	Wisby ...	29.38	49	SSW	4	O	29.28	- .15	51	50	+ 2	SW	4	C	*	52	45	0.16	
	Bodö ...	29.41	50	NE	4	O	29.30	- .30	49	45	+ 1	NE	2	C	1	50	45		
	Christiansund	29.33	48	S	1	b	29.15	- .33	48	45	+ 3	SSW	2	O	3	48	45	0.62	
	Skudesnaes ...	29.47	48	2	0	o	29.27	- .35	48	46	- 3	WNW	2	T	3	?	46	0.32	
	Christiania Fjord (Fierder)	29.35	54	WSW	3	b	29.24	- .29	49	45	0	W	2	b	3	54	48		
	Skagen (The Scaw)	29.39	52	NW	3	b	29.25	- .29	57	51	+ 6	NW	4	bc	3	57	48		
	Fanö ...	29.53	53	WSW	2	T	29.43	- .28	52	50	- 1	WNW	4	C	*	57	50	0.24	
BRITISH ISLANDS.	Sumburgh Head	29.50	50	W	3	C	29.29	- .28	49	48	0	NW	7	T	5	53	45	0.06	
	Stornoway ...	29.70	52	W	3	T	29.74	+ .02	48	48	- 5	NW	6	O	5	58	46	0.14	
	Wick ...	29.62	49	WNW	2	bc	29.55	- .15	48	46	- 5	NW	8	OW	3	57	45	0.14	
	Nairn ...	29.68	53	WNW	3	O	29.65	- .08	49	47	- 4	W	3	C	3	60	46	0.05	
	Aberdeen ...	29.69	50	NW	2	cp	29.59	- .18	49	45	- 4	WNW	4	C	3	63	47	0.13	
	Leith ...	29.76	54	W	3	bc	29.68	- .15	53	48	- 2	W	3	b	*	59	49	0.06	
	Shields ...	29.78	54	NW	1	bc	29.67	- .17	54	52	- 5	WNW	4	b	3	60	48	0.18	
	Spurn Head ...	29.78	58	WSW	5	T	29.64	- .26	53	51	- 5	W	6	b	4	60	51	0.02	
	York ...	29.83	61	W	3	O	29.73	- .22	54	49	- 6	NW	2	b	*	62	49	0.02	
	Loughborough	29.90	61	WSW	4	O	29.81	- .24	53	50	- 6	WSW	4	bcq	*	64	51	0.03	
GERMANY.	Ardrossan ...	29.84	54	WNW	5	C	29.75	- .09	51	48	- 3	WNW	7	b	5	56	50	0.34	
	Malin Head ...	29.90	54	NW	5	cp	29.82	+ .08	51	49	- 5	WNW	7	ogp	4	56	49	0.18	
	Mullaghmore ...	30.00	55	W	5	C	30.02	+ .08	53	49	- 4	NW	6	O	4	58	52	0.34	
	Belmullet ...	30.06	56	WNW	4	bc	30.09	+ .13	54	49	- 3	NW	3	O	*	58	52	0.06	
	Donaghadee ...	29.92	55	NNE	3	bc	29.88	- .04	51	50	- 7	NW	5	O	3	60	48	0.04	
	Barrow-in-Furness	29.88	55	NW	3	C	29.80	- .16	52	49	- 6	NW	3	bc	*	58	50	0.45	
	Liverpool (Bidston)	29.88	56	WSW	6	T	29.84	- .18	53	49	- 7	W	6	C	5	62	51	0.08	
	Holyhead ...	29.96	58	W	4	gym	29.92	- .13	53	50	- 6	NW	5	cq	5	60	52	0.11	
	Parsonstown ...	30.05	58	WNW	1	T	30.06	+ .00	51	48	- 8	NW	1	C	*	60	49	0.02	
	Valencia ...	30.18	58	W	3	om	30.18	- .02	55	52	- 3	NW	3	O	4	60	53	0.04	
FRANCE AND NETHERLANDS.	Roche's Point...	30.12	60	W	4	bc	30.08	- .11	55	52	- 5	NW	5	bc	4	62	54		
	Pembroke (St. Ann's Hd.)	30.09	57	WSW	6	O	30.00	- .17	56	52	- 1	WNW	5	bc	4	59	54		
	Scilly ...	30.21	58	WNW	5	O	30.10	- .17	57	56	- 1	WNW	5	op	5	61	51	0.02	
	Prawle Point ...	30.17	57	WNW	4	C	30.02	- .25	55	53	- 1	WNW	3	C	2	61	53		
	Jersey (St. Aubin's)	30.21	58	W	4	bc	30.02	- .29	59	57	0	WNW	5	ogmp	4	62	57	0.04	
	Hurst Castle ...	30.08	60	W	7	C	29.95	- .29	56	55	- 1	WNW	6	bc	4	64	55		
	Dungeness ...	29.98	59	W	6	O	29.84	- .31	55	52	- 2	NW	3	bc	2	61	55	0.04	
	London ...	30.00	61	W	5	O	29.86	- .24	55	50	- 2	WSW	3	O	*	66	53		
	Oxford ...	29.97	58	W	4	O	29.88	- .28	53	49	- 4	W	3	og	*	63	52		
	Cambridge ...	29.93	58	W	2	O	29.81	- .27	53	50	- 6	W	2	O	*	65	48	0.03	
PENIN-SULA.	Yarmouth ...	29.85	60	W	5	Cq	29.72	- .31	53	51	- 3	WNW	5	C	4	62	48		
	Cuxhaven ...	29.74	54	WSW	2	T	29.53	- .26	52	50	- 4	WSW	2	T	*	58	52	1.56	
	Berlin ...	29.76	55	WNW	3	T	29.54	- .27	54	51	+ 4	W	5	C	*	59	50	1.26	
	Wiesbaden ...	*	*	*	*	*	29.78	- .36	56	54	+ 3	SW	4	O	*	61	?	0.04	
	Munich ...	30.12	52	SW	2	b	29.92	- .33	54	49	+ 6	SW	5	bc	*	57	46	0.04	
	The Helder ...	29.75	58	WSW	4	T	29.63	- .33	58	51	+ 1	W	3	O	3	59	54	0.16	
	Brussels (9 a.m.)	*	*	*	*	*	?	?	58	55	+ 1	NW	5	O	5	61	55		
	Cape Gris Nez	?	59	W	1	b	29.97	- .35	55	50	+ 9	SW	2	O	*	?	50		
	Paris ...	30.16	57	W	1	b	?	?	59	59	+ 7	WNW	3	O	3	63	?		
	Brest ...	?	59	NW	1	b	?	?	?	?	?	?	?	?	?	?	?		
PENIN-SULA.	Lorient ...	30.25	59	W	3	b	30.11	- .23	58	57	+ 7	WNW	3	O	3	64	50		
	Rochefort ...	30.25	64	NW	3	b	30.18	- .17	57	57	+ 8	WNW	2	bc	2	79	48		
	Belfort ...	30.16	52	NW	1	b	29.97	- .32	47	41	+ 6	NW	1	C	*	58	38		
	Lyons ...	30.22	57	C	1	b	30.08	- .30	46	42	+ 3	C	1	b	*	65	40		
	Nice ...	30.15	62	SW	4	bc	29.97	- .25	55	49	- 5	E	3	b	1	72	52		
	Perpignan ...	30.19	54	SE	2	b	30.05	- .23	48	45	?	SW	2	b	*	72	43		
	Biarritz ...	30.11	69	C	3	b	30.12	- .11	64	61	+ 15	W	4	C	2	75	?		
	Corunna ...	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*		
	Lisbon ...	30.15	69	NW	3	b	30.17	+ .12	64	62	- 1	2	0	C	?	73	63		

For Explanation of Columns, see bottom of p. 4.

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



# WEATHER CHARTS

for 8 a.m. on

Saturday,

28<sup>th</sup> September,

1889.

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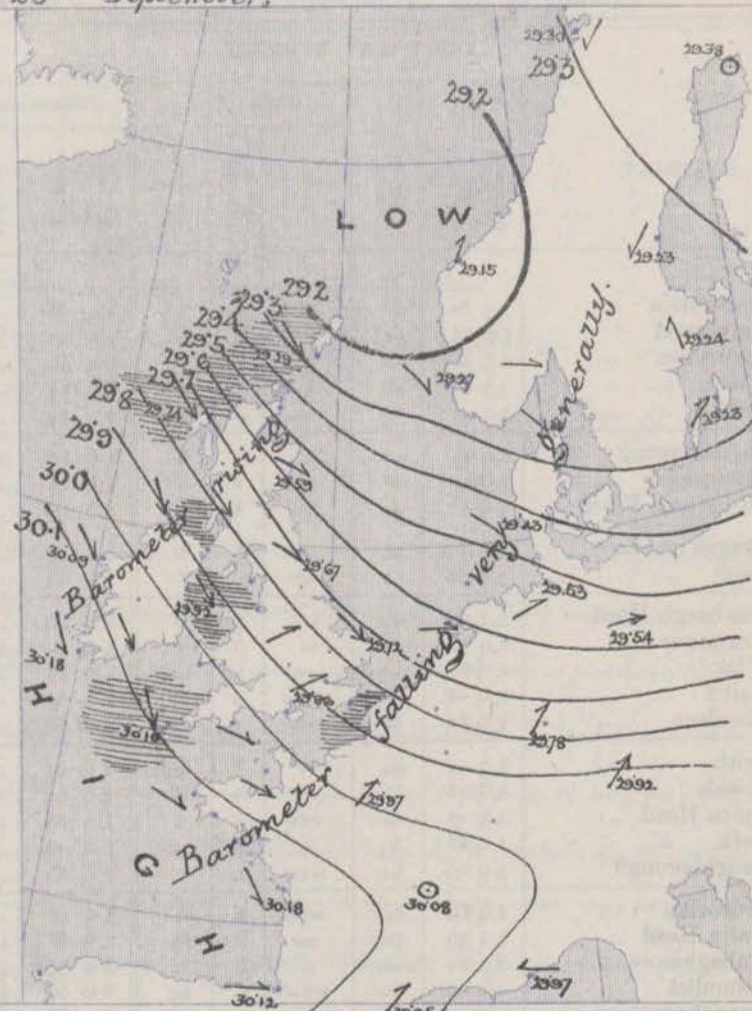
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at 8.0 a.m. for the month of September.

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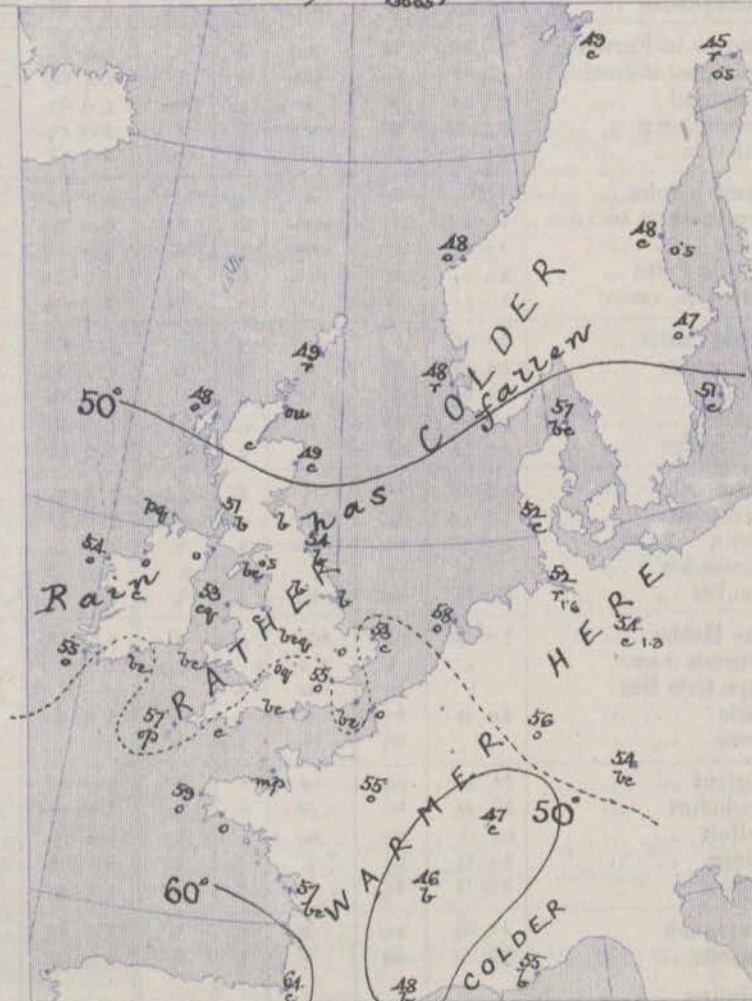
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(For the month of September.)

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			Dry.	Wet.	
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Stornoway .....	56.1	45.7	51.1	49.8	4.13
Wick .....	57.6	45.5	51.8	49.9	2.66
Nairn .....	59.0	46.8	51.2	48.8	2.73
Aberdeen .....	59.2	46.7	52.1	49.8	3.22
Leith .....	62.2	47.6	53.2	50.8	2.47
Shields .....	59.9	49.3	53.1	51.1	2.58
York .....	63.3	47.3	52.8	51.0	2.98
Loughborough .....	65.0	47.9	54.3	52.4	3.06
Ardrossan .....	59.7	49.6	53.5	51.3	3.87
Donaghadee.....	59.6	48.8	53.3	52.1	3.22
Holyhead.....	60.6	52.8	55.7	53.5	3.35
Liverpool .....	61.2	50.9	54.5	51.9	3.56
Parsonstown .....	61.6	47.5	53.1	51.1	3.49
Valencia .....	61.7	51.5	56.3	53.9	4.87
Roche's Point .....	61.9	51.0	55.4	53.2	4.39
Pembroke.....	60.2	53.1	56.2	53.8	3.89
Silly .....	61.8	54.8	58.4	56.2	3.69
Jersey .....	65.2	54.9	59.8	57.1	3.51
Hurst Castle .....	64.2	52.2	57.2	55.8	3.35
Dover .....	62.9	53.0	57.9	55.3	2.86
LONDON .....	66.3	49.4	55.9	53.6	2.59
Oxford .....	63.8	49.1	54.2	52.3	2.91
Cambridge .....	65.5	48.1	54.4	52.0	2.48
Yarmouth .....	62.0	51.1	56.2	54.4	3.17

**NOTE**—The Temperature means are for the 15 years 1871-85, the Rainfall means are mainly those for the 20 years 1865-85.





# GENERAL SITUATION AT 8 A.M.

PRESSURE	<p>Highest, 30.0 in. to 30.2 in. over the greater part of Ireland and the southeast of England.</p> <p>Lowest, 29.2 in. and less, in a depression off the coast of Norway, 30.0 in. and less, over the Gulf of Genoa.</p> <p>Gradients rather steep at the northern stations, moderate elsewhere.</p> <p>Barometer inclined to rise in the northwest of Ireland, falling elsewhere, but not much in the south and east.</p>
TEMPERATURE	<p>Highest, 64° at Lisbon and Biarritz, 59° at Jersey and Brest, 58° at the Helder, and 56° at Lembang and Wiesbaden.</p> <p>Lowest, 45° at Haparanda, 46° at Lyons, 47° at Stockholm, the Scut, and Belfast, and 48° at Perpignan, St. Denys, Mith, and St. Nazaire.</p> <p>The Daily Maximum yesterday were 60° to 66° at our inland stations; in the west and south of France they ranged between 72° and 79°.</p>
WIND	<p>NW<sup>1</sup> throughout our Islands - a moderate <sup>gale</sup> in the north and northwest, and a moderate to strong and gusty breeze elsewhere.</p> <p>It is moderate NW<sup>1</sup> over the Bay of Biscay and in Denmark, SW<sup>1</sup> to W<sup>1</sup> over Germany, and the northwest of France, light and variable over Scandinavia.</p>
WEATHER	<p>Varies greatly at different stations (clear in some localities, raining in others) and is changeable and unsettled as a whole.</p> <p>Rain fell yesterday except over France and the southeast and south of our Islands; the largest amounts were 0.3 in. to 0.4 in. at some of our northwestern stations, 0.5 in. in the north of Sweden, 1.3 in. to 1.6 in. in North Germany.</p>
SEA	<p>Rather rough on our western and northern coast and at C. Fair Nez, moderate or slight elsewhere.</p>

## PROBABLE CHANGES IN SYSTEM NOW PREVALENT

As pressure still keeps up in the west it is probable that while the depression over Norway moves southwards, NW<sup>1</sup> gales will be felt on the eastern shores of the North Sea, and strong easterly breezes on our coast generally, with decreasing temperature and showery weather. No serious gale is, however, apprehended at present.

## FORECASTS

For the 24 hours ending at NOON on 29<sup>th</sup> SEPT<sup>r</sup> 1889.

DISTRICTS.	FORECASTS.	DISTRICTS.	FORECASTS
0 { SCOTLAND NORTH	NW <sup>1</sup> winds, strong; squally, rain at times.	6 { SCOTLAND WEST	NW <sup>1</sup> winds, strong; squally, showery.
1 { SCOTLAND EAST		7 { ENGLAND N.W.	
2 { ENGLAND N.E.		8 { ENGLAND S.W.	
3 { ENGLAND EAST	W <sup>1</sup> to NW <sup>1</sup> winds, strong; squally, showery, colder.	9 { IRELAND NORTH	NW <sup>1</sup> winds, moderate to strong; some showers, colder.
4 { MIDLAND COUNTIES		0 { 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:	Ther:		Wind		Wea:	Sea		Bar:	Ther:		Wind		Wea:	Sea
		D	W	D	F					D	W	D	F		
Skudesnaes ...	29.59	53	50	W	2	0	4		Holyhead ...	29.96	59	58	W	4	4
Sumburgh Head ...	29.53	52	50	W	4	c	4		Valencia ...	30.17	59	59	W	5	5
Stornoway ...	29.71	54	53	W	4	c	4		Scilly ...	30.24	61	59	W	4	4
Aberdeen ...	29.68	59	52	W	2	c	2		Jersey ...	30.28	61	56	W	4	3
Shields ...	29.75	60	59	W	4	r	3		Dungeness ...	30.05	60	57	W	6	4
Ardrossan ...	29.80	55	54	W	4	c	3		London ...	30.05	64	59	W	3	3
Malin Head ...	29.67	55	53	W	4	c	3		Yarmouth ...	29.94	62	60	W	5	4
Mullaghmore ...	29.96	57	56	W	4	c	3		Rochefort ...	30.30	76	60	W	3	2
Belmullet ...	30.02	57	56	W	3	0	3								

## 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 an anticyclone lying over France and the Bay of Biscay, but high, 30.0 ins. and upwards over Central Russia. The lowest readings, 29.5 ins. and less, were found in a long trough, which extended in an east-north-easterly direction from the neighbourhood of Iceland to the south of Sweden, but a shallow depression, with readings below 29.8 ins., was reported over the south of Russia. Moderate or fresh breezes from the W<sup>nd</sup> or SW<sup>nd</sup> were reported over our Islands and the greater part of Central Europe, but over Russia the wind drew into SE, while in Scandinavia it was chiefly E<sup>ly</sup>. Over Southern Europe light or moderate NE<sup>ly</sup> breezes were reported, but in Algeria the wind was SE<sup>ly</sup> or S<sup>ly</sup>. The weather was fine over Southern Europe, France, and the south of our Islands, as well as at most of the Scandinavian stations. Elsewhere, however, the sky was cloudy or overcast, with rain in the northern parts of England and Ireland, and also at several of the German and Russian stations. Temperature had fallen several degrees over Italy and the south of Russia, but risen in most other localities—quickly over the eastern parts of Great Britain; readings ranged from 70° and upwards on the southern shores of the Mediterranean to 50° or less over Scandinavia, the north of Russia and the greater part of Central Europe. The highest individual readings were 75° at La Caille and Malta, 73° at Brindisi, Oran, Algiers, and Annaba, 67° at Nemours and 66° at Longueville and Palermo; the lowest were 41° at St. Mary and Belfort, 42° at Lemberg, 43° at Lyons, 45° at Christiansund, Warsaw, Racow, and Hermannstadt, and 46° at Pige, Breslau, Buda Pesth, and Paris.

In the course of the day the large trough of low pressure in the far north extended slowly, southwards, and the barometer fell a little in most parts of Western Europe, while the wind veered to the NW<sup>nd</sup> at some of our northern stations. Rain fell in all the more northern parts of the United Kingdom.

### EXPLANATION OF COLUMNS GIVEN ON PAGE 1.

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

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

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

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



# DAILY WEATHER REPORT.

for SUNDAY 29<sup>TH</sup> SEPTEMBER 1889.  
 Issued by the Meteorological Office, 63, Victoria Street, London. R. H. SCOTT, Secretary.

8 A.M. TO DAY.																			PAST 24 HOURS.		
STATIONS.	Barometer at 3 <sup>rd</sup> P. and Sea Level.	Temp. in Shade.	WIND.			BAROMETER.		SHADE TEMP.			WIND.			Sea. (0 to 9.)	SHADE TEMP.						
			Direc.	Force. (0 to 12.)	Weather.	Reading at 3 <sup>rd</sup> P. and Sea Level.	Difference from 8 a.m. yesterday.	Dry.	Wet.	Difference from 8 a.m. yesterday.	Direc.	Force. (0 to 12.)	Weather.		Max.	Min.	Amount of Rainfall.				
SCANDINAVIA.																					
Haparanda ...	29.49	48	S	4	T	29.53	+15	47	47	+2	SE	2	T	*	50	43	0.32				
Hernösand ...	29.24	50	S	2	T	29.41	+18	49	47	+1	NE	1	T	*	50	43	0.32				
Stockholm ...	29.28	47	Z	0	C	29.40	+16	48	46	+1	Z	0	T	*	53	46	0.28				
Wisby ...	29.49	46	SEW	2	C	29.36	+08	47	46	-4	SEW	2	C	*	54	45	—				
Bodö ...	29.30	48	E	2	O	29.39	+09	49	44	0	SEW	1	C	1	52	43	—				
Christiansund	29.22	47	SEW	3	T	29.32	+13	46	45	-2	SEW	3	C	4	50	41	0.28				
Skudesnaes ...	29.28	48	WNW	2	C	29.46	+19	48	45	0	N	4	C	3	50	45	—				
Christiania Fjord (Fæder)	29.48	50	NE	1	C	29.41	+17	46	46	-3	NNE	4	C	2	?	?	—				
Skagen (The Scaw)	29.22	49	W	1	C	29.23	+08	50	48	-7	E	2	C	1	?	46	0.08				
Fanö ...	29.28	49	W	1	C	29.24	-19	47	47	-5	E	2	C	*	57	46	0.08				
BRITISH ISLANDS.																					
Sumburgh Head	29.50	49	NNW	7	T	29.75	+46	46	44	-3	N	4	O	5	50	45	0.35				
Stornoway ...	29.92	47	NW	6	O	29.99	+25	48	47	0	N	3	O	4	50	43	0.10				
Wick ...	29.70	45	NNW	8	O	29.87	+32	48	44	0	NNW	5	O	3	50	44	0.07				
Nairn ...	29.82	49	NNW	6	O	29.92	+27	46	45	-3	W	6	C	6	57	44	—				
Aberdeen ...	29.66	47	NW	7	qz	29.83	+34	46	42	-3	NNW	6	Oq	6	51	45	0.05				
Leith ...	29.77	54	NW	4	C	29.90	+22	53	46	0	NW	4	bc	*	61	46	—				
Shields ...	29.69	53	NW	4	C	29.78	+11	49	46	-7	NW	4	O p	4	58	45	0.01				
Spurn Head ...	29.67	54	NNW	6	T	29.71	+02	49	48	-4	NW	7	Oq	6	57	47	0.02				
York ...	29.72	54	NW	2	bc	29.75	+06	48	44	-6	NNW	3	C	*	59	45	—				
Loughborough	29.78	52	NNW	4	C	29.83	+02	46	43	-7	NW	3	C	*	58	42	—				
Ardrossan ...	29.84	51	NW	5	C	29.94	+19	48	44	-3	NNW	4	C	3	56	46	—				
Malin Head ...	29.99	51	N	6	Cq	30.05	+17	50	45	-1	NNW	6	Oq	4	52	47	0.01				
Mullaghmore ...	30.08	52	NW	7	Cq	30.11	+09	51	46	-2	NNW	6	C	4	53	48	0.02				
Belmullet ...	30.17	52	NNW	4	bc	30.17	+08	52	47	-2	N	3	O	*	53	49	—				
Donaghadee ...	29.93	52	N	5	C	29.99	+11	51	48	0	N	6	C	4	53	49	0.02				
Barrow-in-Furness	29.80	53	NNW	4	C	29.87	+07	50	46	-2	N	4	bc	*	58	45	—				
Liverpool (Bidston)	29.84	52	NNW	6	C	29.90	+06	50	45	-3	NNW	3	bc	4	53	48	0.11				
Holyhead ...	29.91	52	NNW	7	C	29.95	+03	52	48	-1	N	6	Cq	6	56	50	0.01				
Parsonstown ...	30.09	51	NW	2	O	30.11	+05	48	46	-3	Z	0	bc	*	56	45	—				
Valencia ...	30.20	55	NNW	4	Oq	30.19	+01	53	50	0	N	3	C	4	58	52	—				
Roche's Point...	30.11	55	NNW	5	bc	30.11	+03	51	48	-4	N	5	bc	4	58	50	—				
Pembroke (St. Ann's Hd.)	29.98	53	NNW	6	C	30.00	00	50	48	-6	NNW	5	Cq	4	56	49	0.01				
Scilly ...	30.05	57	NW	6	Oq	30.02	-08	52	51	-3	N	6	Oq	6	59	50	0.01				
Prawle Point ...	29.97	54	NNW	3	O	29.95	-07	52	50	-1	NNW	2	C	1	60	44	0.02				
Jersey (St. Aubin's)	29.95	57	NNW	4	Oq	29.92	-10	53	50	-4	NNW	4	Cq	3	62	50	0.06				
Hurst Castle ...	29.87	56	NNW	5	C	29.89	-06	49	48	-7	NNW	4	bc	3	61	45	—				
Dungeness ...	29.75	55	W	4	T	29.75	-09	48	45	-7	NNW	4	C	3	62	43	0.03				
London ...	29.79	53	NNW	4	bc	29.81	-05	50	45	-5	NNW	4	bc	*	60	44	—				
Oxford ...	29.83	50	NW	4	C	29.87	-01	46	43	-7	NW	2	C	*	60	44	—				
Cambridge ...	29.76	51	W	2	C	29.78	-08	48	44	-5	NW	2	C	*	59	44	—				
Yarmouth ...	29.67	53	NW	3	C	29.66	-06	49	48	-4	NW	5	Tq	5	53	46	0.02				
Cuxhaven ...	29.45	51	W	3	T	29.28	-25	50	49	-2	SW	3	bc	*	54	49	0.12				
Berlin ...	29.47	49	W	2	C	29.45	-09	48	47	-6	SW	3	C	*	57	46	0.16				
Wiesbaden ...	*	*	*	*	*	29.58	-20	50	47	-6	W	3	bc	*	57	45	0.12				
Munich ...	29.71	53	SW	5	O	29.63	-29	44	43	-10	SW	5	O	*	63	43	0.28				
FRANCE AND NETHERLANDS.																					
The Helder ...	29.53	53	NW	4	T	29.42	-21	50	49	-8	NNW	5	T	4	?	50	0.51				
Brussels (9 a.m.)	*	*	*	*	*	29.62	?	49	48	?	W	4	T	*	55	46	0.53				
Cape Gris Nez	?	53	NW	5	?	?	?	50	46	-8	NNW	7	C	6	59	50	0.04				
Paris ...	29.85	57	NNW	8	O	29.78	-19	48	46	-7	NW	2	bc	*	65	48	—				
Brest ...	?	58	NNW	4	O	?	?	57	56	-2	NW	5	O	4	63	48	—				
Lorient ...	30.04	57	NW	5	bc	29.96	-15	53	50	-5	NNW	4	O	4	63	52	—				
Rochefort ...	30.06	63	NW	5	O	29.90	-23	56	54	-1	NW	5	C	3	66	41	—				
Belfort ...	29.86	52	W	1	O	29.78	-19	49	43	+2	W	1	T	*	59	43	0.32				
Lyons ...	29.92	63	NNW	3	O	29.77	-31	48	47	+2	NW	1	T	*	70	?	0.08				
Nice ...	29.75	59	E	2	bc	29.52	-45	57	53	+2	ENE	4	C	2	70	52	—				
Perpignan ...	29.98	71	W	5	bc	29.78	-27	60	55	+12	NW	4	O	*	81	?	—				
Biarritz ...	30.12	64	NW	5	C	29.93	-19	60	57	-4	NNW	6	T	3	70	59	0.08				
Corunna ...	30.12	67	NNW	3	C	30.13	-05	58	58	0	N	1	T	5	66	54	—				
Lisbon ...	30.12	67	NNW	3	C	30.01	-16	62	58	-2	NW	3	C	2	79	61	—				

For Explanation of Columns, see bottom of p. 4.

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



# WEATHER CHARTS

for 8 a.m. on

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

1889.

## BAROMETER, WIND AND 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:

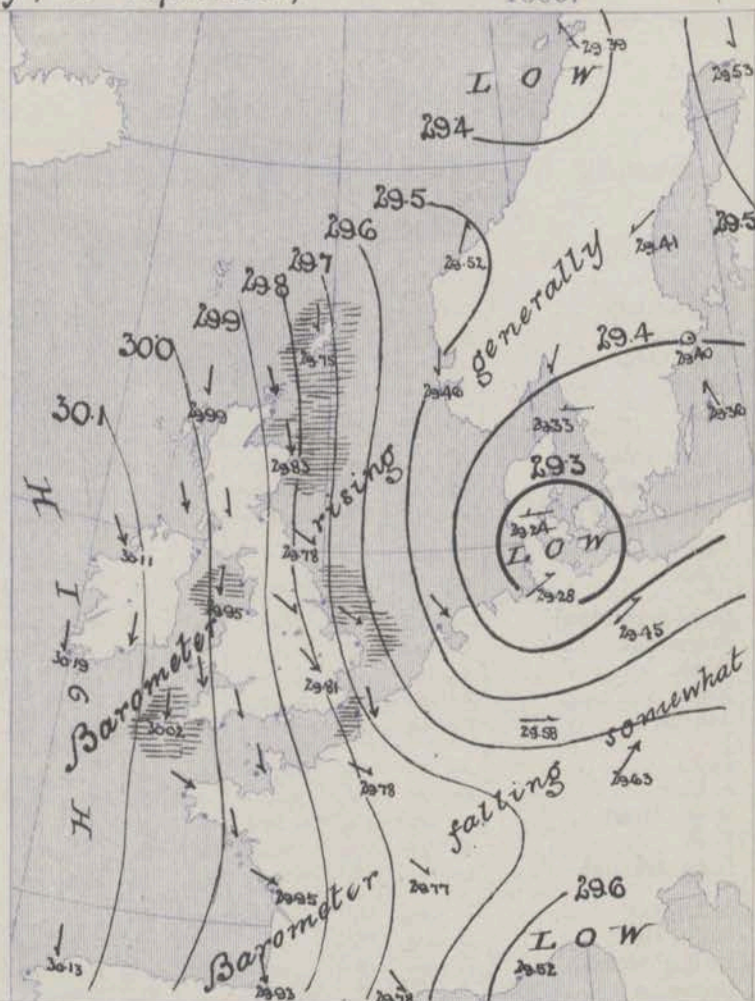
— = Rough. — = High.

### MEAN HEIGHT OF THE BAROMETER

at 8.0 a.m. for the month of September.

During the 15 Years: 1871—1885.

STATIONS.	MEAN READINGS.
Sumburgh Head .....	29.766
Stornoway .....	29.780
Wick .....	29.793
Nairn .....	29.809
Aberdeen .....	29.819
Leith .....	29.846
Shields .....	29.869
York .....	29.905
Loughborough .....	29.924
Ardrrossan .....	29.850
Donaghadee .....	29.869
Holyhead .....	29.894
Liverpool .....	29.899
Parsonstown .....	29.904
Valencia .....	29.917
Roche's Point .....	29.915
Pembroke .....	29.913
Scilly .....	29.943
Jersey .....	29.955
Hurst Castle .....	29.960
Dover .....	29.941
LONDON .....	29.945
Oxford .....	29.935
Cambridge .....	29.931
Yarmouth .....	29.916



## 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.	
Sunburgh Head.....	55.2	46.3	50.9	49.2	3.46
Stornoway .....	56.1	45.7	51.1	49.8	4.13
Wick .....	57.6	45.6	51.8	49.9	2.66
Nairn .....	59.0	46.8	51.2	48.8	2.73
Aberdeen .....	59.2	46.7	52.1	49.8	3.22
Leith .....	62.2	47.6	53.2	50.8	2.47
Shields .....	59.9	49.3	53.1	51.1	2.58
York .....	63.3	47.3	52.8	51.0	2.98
Loughborough .....	65.0	47.9	54.3	52.4	3.06
Ardrrossan .....	59.7	49.6	53.5	51.3	3.87
Donaghadee .....	59.6	48.8	53.3	52.1	3.29
Holyhead .....	60.6	52.8	55.7	53.5	3.35
Liverpool .....	61.2	50.9	54.5	51.9	3.56
Parsonstown .....	61.6	47.5	53.1	51.1	3.49
Valencia .....	61.7	51.5	50.3	53.9	4.87
Roche's Point .....	61.9	51.0	55.4	53.2	4.39
Pembroke .....	60.2	53.1	56.2	53.8	3.89
Scilly .....	61.8	54.8	58.4	56.2	3.69
Jersey .....	65.2	54.9	59.8	57.1	3.51
Hurst Castle .....	64.2	52.2	57.2	55.8	3.35
Dover .....	62.9	53.0	55.9	55.3	2.80
LONDON .....	66.3	49.4	55.9	53.6	2.59
Oxford .....	63.8	49.1	54.2	52.3	2.91
Cambridge .....	65.5	48.1	54.4	52.0	2.48
Yarmouth .....	62.0	51.1	56.2	54.4	3.17

NOTE.—The Temperature means are for the 15 years 1871-85, the Rainfall means are mainly those for the 20 years 1860-85.





# GENERAL SITUATION AT 8 A.M.

PRESSURE	<p>Highest 30.0 ins. to 30.2 ins. over Ireland and off the northwest coast of Spain.</p> <p>Lowest 29.3 ins. and less, over Holstein - 29.6 ins. and less, over the Gulf of Genoa.</p> <p>Gradients rather steep in the east, moderate to slight elsewhere.</p> <p>Barometer rising in the northwest and north, falling a little elsewhere.</p>
TEMPERATURE	<p>Highest 62° at Lisbon 60° at Perpignan and Biarritz, 57° at Nice &amp; Brest. 55° at Valencia and 50° at Malin Head &amp; London.</p> <p>Lowest 46° at Christiansund, 44° at Lumburg Head, 43° at Haarlem and Oxford, 42° at Faro, 41° at Hornum, and 40° at Arrossary.</p> <p>Cambridge and Paris</p> <p>It has fallen over nearly the whole of western Europe since Saturday.</p>
WIND	<p>N. by E. over the North Sea and British Islands, moderate to strong in force.</p> <p>N.W. by W. in France, N. by E. over Spain, S.W. by W. over Germany.</p> <p>E. by S. in Denmark. It blew a moderate gale in the N.W., and fresh gales in the N.E. during yesterday and the night.</p>
WEATHER	<p>Fine and bright at a few stations, but cloudy or overcast in most places, showery in several localities and unsettled generally. Rainfall has been heavy over the Netherlands, and at Yarmouth.</p>
SEA	<p>Rough in the west, north and northeast, and also at Cape Luis May, moderate or slight elsewhere.</p>

PROBABLE CHANGES IN SYSTEM NOW PREVALENT

## FORECASTS

For the 24 hours ending at NOON on 30<sup>TH</sup> SEPTEMBER 1889.

### 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
- 0 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:	Ther:		Wind		Wea:	Sea		Bar:		Ther:		Wind		Wea:	Sea.
		D	W	D	F						D	W	D	F		
Skudesnaes ...	29.21	53	48	5	1	0	3		Holyhead ...	29.92	54	50	NW	6	cqf	6
Sumburgh Head ...	29.41	49	48	NW	7	0	6		Valencia ...	30.20	58	54	NW	5	omq	5
Stornoway ...	29.83	49	49	NW	6	0	4		Scilly ...	30.09	58	53	NW	5	0	5
Aberdeen ...	29.60	51	47	NW	7	cqf	5		Jersey ...	29.99	61	53	NW	5	cgm	4
Shields ...	29.67	56	51	NW	3	c	3		Dungeness ...	29.79	60	56	NW	4	c	3
Ardrossan ...	29.80	54	49	NW	7	c	5		London ...	29.81	53	51	W	2	0	*
Malin Head ...	29.93	50	48	NW	8	omq	5		Yarmouth ...	29.69	53	51	NW	4	cqf	3
Mullaghmore ...	30.05	54	49	NW	7	0	5		Rochefort ...	30.15	63	62	NW	4	0	2
Belmullet ...	30.14	55	49	NW	4	0	*									

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

*The continental information for Saturday 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.

\* 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, 30<sup>th</sup> September, 1889.*  
*Issued by the Meteorological Office, 63, Victoria Street, London. R. H. SCOTT, Secretary.*

Issued by the Meteorological Office, 55, 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.		Sea. (0 to 2.)	SHADE TEMP.		Amount of Rainfall.		
			Direc.	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.	Direc.	Force. (0 to 12.)		Weather.	Max.		Min.	
SCANDINAVIA.	Haparanda ...	29.44	47	S	2	T	29.57	+ 0.4	47	46	0	W SW	2	0	*	48	45	0.16
	Hernösand ...	29.50	48	2	0	a	29.71	+ 0.30	46	45	- 3	2	0	0	*	54	46	0.08
	Stockholm ...	29.54	48	2	0	0	29.69	+ 0.29	49	48	+ 1	N NE	2	0	*	59	43	0.04
	Wisby ...	29.50	48	S	4	a	29.72	+ 0.36	49	48	+ 2	S	2	6	*	55	45	0.35
	Bodö ...	29.46	44	2	0	T	29.63	+ 0.24	43	41	- 6	2	0	0	1	?	41	0.20
	Christiansund	29.51	46	W	3	T	29.69	+ 0.17	44	43	- 2	ESE	1	0	4	52	41	0.51
	Skudesnaes ...	29.52	51	NW	4	0	29.60	+ 0.14	49	47	+ 1	ESE	1	0	3	?	48	0.08
	Christiania Fjord (Fæder)	29.53	51	NE	1	b	29.64	+ 0.23	46	46	+ 2	N NE	3	6	2	52	46	-
	Skagen (The Scaw)	29.54	49	E	1	T	29.57	+ 0.24	49	48	- 1	SE	1	T	1	55	46	0.51
	Fanö ...	29.50	47	2	0	0	29.49	+ 0.25	49	48	+ 2	ESE	2	0	*	55	45	0.02
BRITISH ISLANDS.	Sumburgh Head	29.70	45	N	1	T	29.74	- 0.01	45	45	- 1	N	1	0	4	48	43	0.15
	Stornoway ...	29.84	51	NW	4	T	29.89	- 0.10	48	47	0	NW	4	0	4	51	45	0.05
	Wick ...	29.80	47	NW	2	0	29.83	- 0.04	47	44	- 1	NW	4	0	2	50	43	0.10
	Nairn ...	29.81	50	NW	1	0	29.80	- 0.12	46	45	0	N	5	d	5	52	45	0.23
	Aberdeen ...	29.82	48	WNW	3	0	29.76	- 0.07	47	43	+ 1	NW	4	c p q	5	50	46	0.04
	Leith ...	29.87	53	W	2	0	29.77	- 0.13	50	45	- 3	NW	1	cm	*	61	48	-
	Shields ...	29.84	50	N	3	0	29.68	- 0.10	50	48	+ 3	NW	4	cp	6	50	45	-
	Spurn Head ...	29.80	49	NW	6	0	29.63	- 0.08	49	49	0	NW	4	T	4	51	46	0.02
	York ...	29.86	50	N	2	0	29.68	- 0.11	50	48	+ 2	N	2	0	*	53	45	-
	Loughborough	29.87	50	NW	3	0	29.70	- 0.13	49	48	+ 3	W	1	0	*	53	45	0.05
GERMANY.	Ardrossan ...	29.89	51	NW	4	0	29.81	- 0.13	53	49	+ 5	NW	4	6	3	53	46	-
	Malin Head ...	30.01	51	NW	5	op	29.92	- 0.13	53	50	+ 3	NW	5	6	3	53	49	-
	Mullaghmore ...	30.08	53	NW	5	op	29.96	- 0.15	53	51	+ 2	NW	5	6	3	55	50	0.01
	Belmullet ...	30.13	53	NW	3	0	30.02	- 0.15	55	54	+ 3	N	4	0	*	58	51	0.07
	Donaghadee ...	29.98	52	N	6	bc	29.84	- 0.15	54	51	+ 3	NE	6	6	4	54	50	-
	Barrow-in-Furness	29.89	52	NE	2	c	29.70	- 0.17	53	51	+ 3	N	3	0	*	55	49	0.05
	Liverpool (Bidston)	29.91	52	NW	2	0	29.73	- 0.17	53	52	+ 3	NW	2	0	3	54	50	0.04
	Holyhead ...	29.95	52	N	6	c q	29.78	- 0.17	54	52	+ 2	NW	6	c q p	6	55	51	0.01
	Parsonstown ...	30.09	50	2	0	c	29.94	- 0.17	53	52	+ 3	NW	2	0	*	55	47	0.01
	Valencia ...	30.18	52	N	2	T	30.05	- 0.14	56	54	+ 1	NW	4	o q	5	56	51	0.01
FRANCE AND NETHERLANDS.	Roche's Point...	30.09	55	N	5	bc	29.93	- 0.18	55	54	+ 4	N	6	0	4	57	50	-
	Pembroke (St. Ann's Hd.)	30.00	52	NW	4	c	29.81	- 0.19	53	53	+ 3	NW	6	c q p	4	55	49	0.03
	Scilly ...	30.02	54	N	6	0	29.89	- 0.13	55	54	+ 1	NW	6	o q	5	55	51	-
	Prawle Point ...	29.94	51	NW	4	bc	29.81	- 0.14	52	52	- 2	NW	3	d m	2	59	47	0.01
	Jersey (St. Aubin's)	29.90	55	NW	3	o q m	29.83	- 0.09	55	50	0	NW	4	c q m	3	57	52	-
	Hurst Castle ...	29.89	53	NW	4	c	29.73	- 0.16	52	52	+ 3	NW	4	c q	3	56	47	-
	Dungeness ...	29.76	50	NW	4	c	29.67	- 0.08	47	45	- 1	NW	3	0	2	51	45	0.04
	London ...	29.83	52	N	4	0	29.70	- 0.11	47	46	- 3	NW	1	o q m	*	54	45	-
	Oxford ...	29.89	49	NW	1	0	29.70	- 0.17	48	47	+ 2	W	3	o d	*	54	45	-
	Cambridge ...	29.81	50	NW	2	c	29.67	- 0.11	49	48	+ 1	NW	1	bc	*	54	44	-
PENINSULA.	Yarmouth ...	29.67	50	NW	6	T m	29.63	- 0.03	46	45	- 3	NW	3	cm	4	52	44	0.20
	Cuxhaven ...	29.41	52	NNE	3	bc	29.49	+ 0.21	52	51	+ 2	NW	1	0	*	54	49	-
	Berlin ...	29.57	50	SW	3	0	29.60	+ 0.15	48	46	0	S	2	0	*	55	46	-
	Wiesbaden ...	*	*	*	*	*	29.64	+ 0.06	48	47	- 2	2	0	0	*	54	45	0.04
	Munich ...	29.73	45	SW	1	0	29.73	+ 0.10	44	43	0	SW	1	0	*	50	41	0.04
	The Helder ...	29.58	52	N	2	T	29.55	+ 0.13	50	48	0	N	2	0	2	55	48	0.24
	Brussels (9 a.m.)	*	*	*	*	*	29.62	0.00	48	45	- 1	NW	1	T	*	50	47	1.50
	Cape Gris Nez	?	53	NW	6	0	?	?	50	46	0	NW	5	0	4	55	45	0.08
	Paris ...	29.81	47	NW	1	0	29.76	- 0.02	48	46	0	W	2	0	*	59	46	0.12
	Brest ...	?	54	N	5	0	?	?	55	50	- 2	N	4	0	4	63	48	-
GERMANY.	Lorient ...	29.95	54	NW	4	0	29.91	- 0.05	54	50	+ 1	NW	4	0	3	59	52	-
	Rochefort ...	29.93	57	NW	5	c	29.95	- 0.00	54	51	- 2	NW	3	0	2	64	48	-
	Belfort ...	29.71	48	NW	1	T	29.74	- 0.04	46	41	- 3	NW	1	T	*	55	41	0.04
	Lyons ...	29.78	49	NW	2	c	29.87	+ 0.10	45	43	- 3	NW	1	0	*	57	42	0.20
	Nice ...	29.88	61	ESE	4	c	29.86	+ 0.04	53	50	- 4	ESE	5	0	2	72	50	0.39
	Perpignan ...	29.77	57	NW	3	bc	29.79	+ 0.01	56	49	- 4	NW	3	0	*	63	53	-
	Biarritz ...	29.89	57	N	3	c	29.93	0.00	52	50	- 8	SE	2	0	3	61	50	0.39
	Corunna ...	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	-
	Lisbon ...	29.92	62	NW	6	b	29.92	- 0.00	58	53	- 4	N	6	b	?	70	57	-

For Explanation of Columns, see bottom of p. 4.

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



# WEATHER CHARTS

for 8 a.m. on

Monday, 30<sup>th</sup> September,

1889.

## BAROMETER, WIND AND 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:

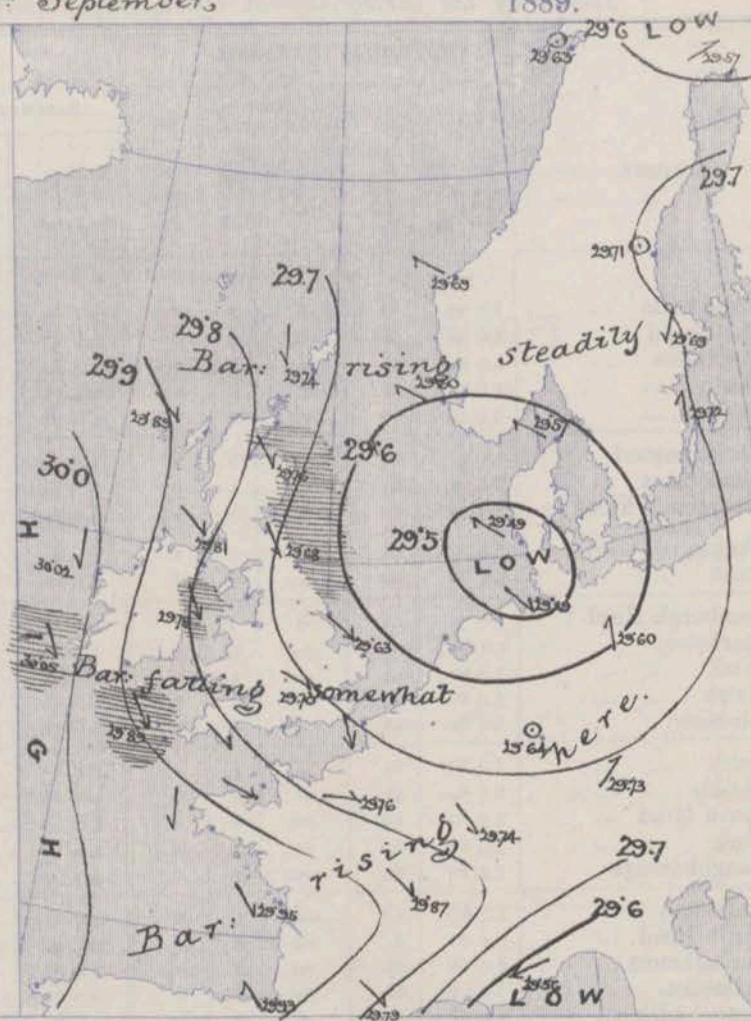
= Rough. = High.

### MEAN HEIGHT OF THE BAROMETER

at 8.0 a.m. for the month of September.

During the 15 Years: 1871—1885.

STATIONS.	MEAN READINGS.
Sumburgh Head	29.766
Stornoway	29.780
Wick	29.793
Nairn	29.809
Aberdeen	29.819
Leith	29.846
Shields	29.869
York	29.905
Loughborough	29.924
Ardrossan	29.850
Donaghadee	29.869
Holyhead	29.894
Liverpool	29.899
Parsonstown	29.901
Valencia	29.917
Roche's Point	29.915
Pembroke	29.913
Sally	29.943
Jersey	29.955
Hurst Castle	29.960
Dover	29.941
LONDON	29.945
Oxford	29.935
Cambridge	29.931
Yarmouth	29.916



## 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.

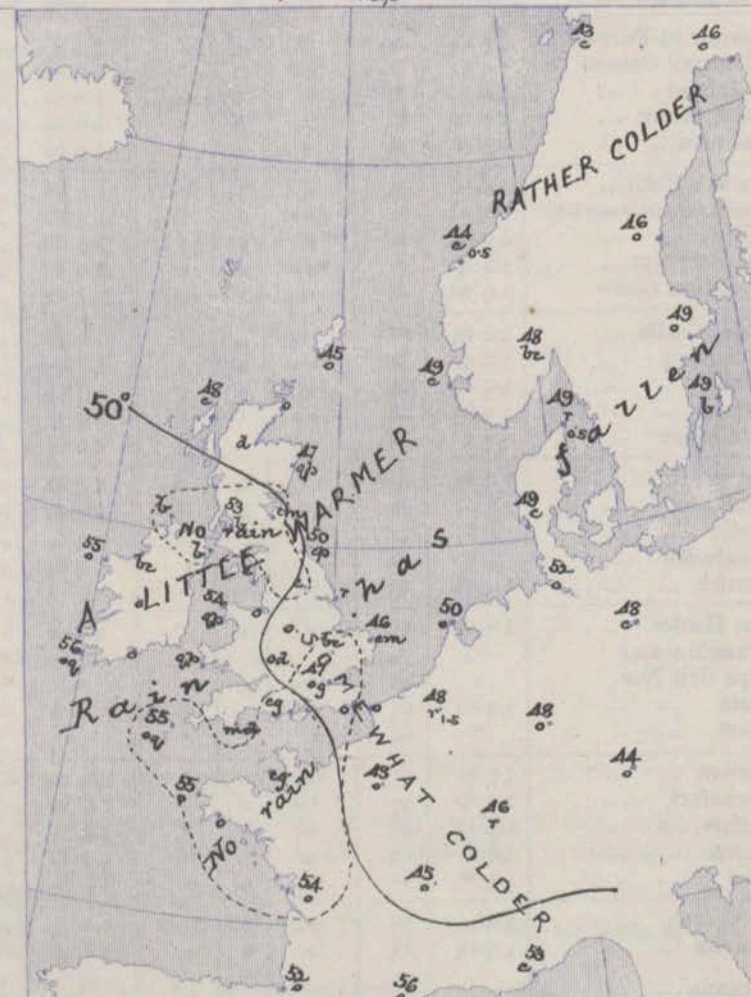
**RAINFALL**—A dotted line separates the districts in which rain has fallen from those where there has been none. Falls of 0.5 in. or more, are quoted in figures.

### 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	46.3	50.9	49.2	3.46
Stornoway.....	56.1	45.7	51.1	49.8	4.13
Wick.....	57.6	45.5	51.8	49.9	2.66
Nairn.....	59.0	46.8	51.2	48.8	2.73
Aberdeen.....	59.2	46.7	52.1	49.8	3.22
Leith.....	62.2	47.6	53.2	50.8	2.47
Shields.....	59.9	49.3	53.1	51.1	2.58
York.....	63.3	47.3	52.8	51.0	2.98
Loughborough.....	65.0	47.9	54.3	52.4	3.06
Ardrossan.....	59.7	49.6	53.5	51.3	3.87
Donaghadee.....	59.6	48.8	53.3	52.1	3.22
Holyhead.....	60.6	52.8	55.7	53.5	3.35
Liverpool.....	61.2	50.9	54.5	51.9	3.56
Parsonstown.....	61.6	47.5	53.1	51.1	3.49
Valencia.....	61.7	51.5	56.3	53.9	4.87
Roche's Point.....	61.9	51.0	55.4	53.2	4.39
Pembroke.....	60.2	53.1	56.2	53.8	3.89
Sally.....	61.8	54.8	58.4	56.2	3.60
Jersey.....	65.2	54.9	59.8	57.1	3.51
Hurst Castle.....	64.2	52.2	57.2	55.8	3.35
Dover.....	62.9	53.0	57.9	55.3	2.86
LONDON.....	66.3	49.4	55.9	53.6	2.59
Oxford.....	63.8	49.1	54.2	52.3	2.91
Cambridge.....	65.5	48.1	54.4	52.9	2.48
Yarmouth.....	62.0	51.1	56.2	54.4	3.17

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





# GENERAL SITUATION AT 8 A.M.

PRESSURE	Highest 30.0 ins. and upwards, in a large area lying to the westward of our Islands. Lowest 29.5 ins. and less, in a depression lying over the south of Denmark; 29.6 ins. and less, in another disturbance lying over England. Gradients moderate. Barometer falling at the English and Irish stations, but rising in most other localities.
TEMPERATURE	Highest 58° at Lisbon, 56° at Valencia and Perpignan, and 55° at Belmullet, Roche's Pt., Lill, Jersey and Brest. Lowest 43° at Porto, 44° at Christiansund and Munich, 45° at Lumburgh Head & Lyons, 46° at Naparanda, Kermisund & Harmond. The maxima registered over our Islands yesterday were below 55° at most of our northern and eastern stations.
WIND	NW <sup>4</sup> or N <sup>4</sup> over our Islands and France; strong in force at many of our western stations. Light from the E <sup>2</sup> or SE <sup>2</sup> in Denmark and the west of Norway; variable in Sweden.
WEATHER	Cloudy or overcast generally, with rain or passing showers in many places. Since yesterday morning showers have fallen in nearly all parts of western Europe.
SEA	Rough at Shields and Holyhead, and rather rough on our northeast and southwest coasts generally.

## PROBABLE CHANGES IN SYSTEM NOW PREVALENT

No decided change in the weather is indicated at present. The wind in the extreme north of Scotland is inclined to back to the W<sup>2</sup>, and it is probable that small depressions will continue to travel southeastwards or southwards across our Islands, producing showery weather in all districts, and strong winds on our west and southwest coasts.

## FORECASTS

For the 24 hours ending at NOON on 1<sup>st</sup> OCTOBER 1889.

DISTRICTS.	FORECASTS.	DISTRICTS.	FORECASTS
0 SCOTLAND NORTH	W <sup>2</sup> and NW <sup>2</sup> winds, force doubtful; changeable, some showers.	6 SCOTLAND WEST	Same as Nos. 0 and 1.
1 SCOTLAND EAST		7 ENGLAND N.W.	
2 ENGLAND N.E.		8 ENGLAND S.W.	
3 ENGLAND EAST	Same as No. 5.	9 IRELAND NORTH	NW <sup>2</sup> and N <sup>2</sup> winds, strong, squally, some showers.
4 MIDLAND COUNTIES		0 IRELAND SOUTH	
5 ENGLAND SOUTH	NW <sup>2</sup> winds, moderate; changeable, some showers.		None Issued.
		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:	Ther:		Wind		Wea:	Sea		Bar:		Ther:		Wind		Wea:	Sea
		D	W	D	F						D	W	D	F		
Skudesnaes ...	29.54	56	50	rw	4	b	3		Holyhead ...	29.96	53	49	r	7	cq	6
Sumburgh Head ...									Valencia ...							
Stornoway ...	29.44	50	50	2s	0	0	2		Scilly ...							
Aberdeen ...									Jersey ...	29.90	57	50	rw	4	c	3
Shields ...									Dungeness ...	29.76	49	46	rw	5	0	3
Ardrossan ...									London ...							
Malin Head ...	30.04	51	47	rw	4	0	3		Yarmouth ...							
Mullaghmore ...									Rochefort ...	29.95	62	55	rw	5	c	2
Belmullet ...	30.17	55	50	rw	3	0	2									

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

The reports for yesterday morning showed that pressure ranged from between 30.0 inches and 30.2 inches over Ireland, and the portions of the Atlantic adjacent to the Irish and Spanish coasts — and from 29.8 inches and more over the southern, central and eastern parts of Russia — to 29.4 inches and less, in a complex depression covering the Baltic, Denmark, and the south of Sweden and to 29.6 inches and less over Northern Italy, the Riviera and Gulf of Genoa. Thus, while cold N<sup>W</sup> winds prevailed over the British Islands and North Sea, blowing strongly in places, and N<sup>W</sup> to W<sup>W</sup> winds were felt over France, the wind over Germany was N<sup>W</sup> and that over Russia and Finland S<sup>W</sup> to S<sup>W</sup>. Over the northern parts of the Mediterranean and the S<sup>W</sup> of France the wind was N<sup>W</sup>. The weather was very generally cloudy, or overcast and unsettled, rain was falling in many localities in almost all districts, and over the Baltic, Germany, and the Netherlands the fall had been large. In Algeria also, considerable quantities of rain had fallen. Temperature was falling in the west, and also over Central Europe, not changing much elsewhere; the highest morning readings were 73° at Tifar (Tunis), 72° at Palma, 70° at Cagliari and Brindisi, 69° at Barcelona and Palermo, 68° at San Fernando and Tangier; over the Western parts of the British Islands and also over Central and Northern Russia, the readings were rather above 55°, but in most other places they were lower. The lowest values were 44° at Munich, 46° at Christianund, Sumburgh Head, Nain, Aberdeen and Oxford, and 45° at Stornoway, Ardrossan, Cambridge, Paris, Berlin, and Stockholm.

Later on the depression over Germany and Denmark continued to fill up slowly, but the barometer began to fall again in the north of our Islands. Unsettled weather continued.

## SUMMARY OF CHANGES IN THE WEATHER OVER THE BRITISH ISLANDS AND THEIR NEIGHBOURHOOD. FROM THE 22<sup>ND</sup> TO THE 28<sup>TH</sup> SEPT. 1889.

The changes in the weather which have taken place over our Islands and their neighbourhood during the past week, have been of a very general and decided character. At the commencement of the period the barometer was highest in the west, lowest in the east, and N<sup>W</sup> to N<sup>W</sup> winds prevailed generally, with cold weather. A sudden change then took place, on Monday and Tuesday, two depressions advanced, — one to the western and the other to the southern parts of our Islands, causing great changes of wind direction, a considerable increase in its force over the Channel and our southern coasts, and much rain over our southwestern districts. Both systems filled up quickly, but a new one was developed over our southern Midland Counties as the second disappeared, and, gaining strength it moved northwards to Denmark and the Baltic, filling up later on in the last named region during Thursday night and Friday. A new disturbance then advanced to Norway from the westward, and moving thence in a S<sup>SE</sup> direction had reached the Sound on Saturday night.

The weather has consequently been sometimes mild, sometimes cold, dull and wet over the southern parts of the Kingdom, less rainy in the north. The wind has blown more or less from nearly all points of the compass, and while strong winds and moderate gales from the southward were felt in the Channel on the 24<sup>TH</sup>, moderate gales from the northward and north-westward were experienced on our north-western, northern, and north-eastern districts on Saturday.

## 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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# ADDITIONS AND CORRECTIONS TO THE

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

DATE.	STATIONS.	YESTERDAY EVENING.					8 A.M. TO-DAY.										PAST 24 HOURS.		
		Barometer at 32° F. and Sea Level.	Temp. in Shade.	WIND.		Weather.	BAROMETER.		SHADE TEMP.			WIND.		Weather.	Sea (0 to 3.)	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.	Direct.	Force (0 to 12.)			Max.	Min.		
1	Cape Gris Neg.	?	67	N	1	c	?	?	61	-	- 3	EHE	3	?	3	73	61	-	
2	Corunna	*	*	*	*	*	30.08	.00	68	66	+ 3	SSW	4	bc	3	73	52	-	
3	Cape Gris Neg.	?	65	EHE	3	m	?	-	62	-	+ 5	W	4	0	4	72	57	0.59	
	Corunna	*	*	*	*	*	30.31	+ .23	67	64	- 1	SW	2	f	2	77	61	-	
4	The Helder	30.05	62	SSE	1	m	30.08	+ .05	61	-	+ 2	EHE	1	m	1	64	?	0.08	
	Corunna	*	*	*	*	*	30.23	- .08	65	64	- 2	WNW	1	f	4	72	57	-	
6	Corunna	*	*	*	*	*	30.05	- .09	63	61	- 1	E	1	f	2	73	54	-	
7	Corunna	*	*	*	*	*	30.06	+ .01	62	61	- 1	W	2	EL	2	75	59	-	
9	Brussels	*	*	*	*	*	30.19	+ .09	53	53	- 1	WNW	1	0	*	66	?	-	
	Lyon	30.10	74	NE	1	c	30.18	+ .09	62	-	+ 6	NE	1	b	*	80	?	-	
	Corunna	*	*	*	*	*	30.14	+ .01	59	59	- 7	E	1	f	4	72	54	-	
10	The Helder	30.18	58	SSW	1	b	30.21	+ .08	57	-	- 3	S	1	f	1	66	54	-	
	Corunna	*	*	*	*	*	30.10	- .04	64	62	+ 5	WNW	2	f	4	64	57	-	
11	Corunna	*	*	*	*	*	30.13	+ .03	60	58	- 2	E	2	m	0	73	52	-	
12	Corunna	*	*	*	*	*	30.11	- .02	69	64	+ 9	ESE	2	f	4	84	?	-	
13	Belfast	30.15	63	NW	1	b	30.20	+ .01	59	?	+ 8	NW	1	b	*	71	48	-	
	Corunna	*	*	*	*	*	30.11	.00	62	60	- 7	NSW	2	f	4	82	55	-	
14	Corunna	*	*	*	*	*	30.11	.00	76	65	+ 14	ESE	2	b	4	90	59	-	
16	Corunna	*	*	*	*	*	30.08	.00	63	-	- 8	NE	1	b	5	90	52	-	
17	Corunna	*	*	*	*	*	29.96	- .12	58	54	- 5	SSW	1	m	?	72	46	-	
18	Corunna	*	*	*	*	*	29.79	- .17	59	59	+ 1	N	1	r	2	75	55	-	
19	Corunna	*	*	*	*	*	29.92	+ .13	64	-	+ 8	E	1	bc	4	75	57	0.16	
20	Haparanda	29.91	48	S	6	b	29.91	+ .38	48	45	0	S	6	c	0	48	43	-	
20	Corunna	*	*	*	*	*	30.04	+ .12	58	57	- 6	NNE	2	f	4	77	55	-	
21	Haparanda	29.58	47	S	4	0	29.50	- .41	47	46	- 1	SSW	2	0	*	52	45	0.16	
	Hernösand	29.32	48	S	6	0	29.26	- .04	48	-	- 1	SE	4	0	*	55	46	0.91	
	Stockholm	29.21	47	ESE	2	r	29.09	- .27	46	-	- 4	SE	2	r	*	61	43	0.71	
	Kisby	30.12	47	NSW	4	0	28.95	- .43	49	-	- 1	E	4	0	*	55	45	0.24	
	Corunna	*	*	*	*	*	30.04	.00	60	59	+ 2	NNE	1	r	5	70	55	-	
23	Corunna	*	*	*	*	*	30.07	+ .03	62	61	+ 5	N	6	0	5	70	55	-	
25	Corunna	*	*	*	*	*	29.92	+ .26	64	61	+ 1	NNE	6	b	7	64	55	0.75	
26	Brussels	*	*	*	*	*	30.14	+ .54	45	-	+ 1	NSW	4	bc	*	52	43	-	
	Corunna	*	*	*	*	*	30.13	+ .21	61	-	- 3	NE	1	b	?	64	55	-	
27	Corunna	*	*	*	*	*	30.13	.00	63	59	+ 2	NE	1	b	7	64	55	-	
28	Corunna	*	*	*	*	*	30.18	+ .05	58	54	- 5	EHE	2	b	4	75	52	-	
30	Corunna	*	*	*	*	*	30.07	- .06	59	-	+ 1	NNE	2	0	6	66	52	0.04	



## 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.
				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.	
1	Stornoway 2pm						30.19		58			S	2	c				
-	Malin Hd 2pm						30.17		58	56		ESS	3	bc				
-	Belmullet 2pm						30.12		68	64				bc				
-	Holyhead 2pm						30.13		68					b	3			
-	Jersey ... 2pm						30.08		70	66		ENE	4	b				
-	Dungene 3.30pm						30.13		66	62								
4	Pembroke .....																	0.01
-	Hurst Castle ...																60	
5	Dungene 3pm								63	61								
6	Hurst Castle ...																69	
7	Liverpool .....																68	
-	Cambridge ...	3528																
9	Loughborough																70	
11	Parsonstown ...	30.01																0.01
-	Seilly .....																	
12	Parsonstown ...	30.06																
15	Holyhead .....																	0.02
-	Prawle Point ...																49	
-	Yarmouth .....																	Norm
17	Valencia .....																	0.50
19	Liverpool .....																50	
21	Pembroke .....																	0.11
22	Shields .....	29.47																
25	Seilly .....									48								
26	Spurn Head ...						30.06											
-	Barrow. in. Fur.						30.09	+ .22										
-	Dungene 3 ...																55	
-	Mullaghmore ... 2pm						29.99											
27	Mairn .....																	0.08
28	Liverpool .....		57															
-	Seilly .....						30.09	- .18										
29	York .....						29.79											
30	Barrow. in. Fur.																	0.06