

1815-4

METEOROLOGICAL OFFICE.

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# DAILY WEATHER REPORTS.

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1<sup>ST</sup> JULY TO 31<sup>ST</sup> DECEMBER, 1893.

*Sec. Hyg. Lond.*

21. 1. 95



# DAILY WEATHER REPORT.

July to December 1893.





# DAILY WEATHER REPORT

for 8 a.m. on **WEDNESDAY. 17 NOVEMBER. 1893**

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

STATIONS.		YESTERDAY EVENING. (See note at bottom of last page.)					THIS MORNING. (See note at bottom of last page.)										PAST 24 HOURS.			
		Barom.	Temp.	Wind.		Weather.	Barometer.		Shade Temp.			Wind.		Sea (0 to 9).	Shade Temp.		Amount of Rainfall.			
Reading at 32° F. and Sea Level.	Dry Bulb.	Dirac.	Force (0 to 12).	Reading at 32° F. and Sea Level.	Change since Yesterday Morn.	Dry Bulb.	Wet Bulb.	Change in dry since Yesterday.	Dirac.	Force (0 to 12).	Weather.	Max.	Min.							
Inch.																		°	Inch.	
SCANDINAVIA.	Haparanda ...	29.82	23	2	0	b	29.95	+6.1	28	2	-2	2	0	b	4	b	24	23	—	
	Hernösand ...	29.92	28	2	0	b	29.89	+3.2	23	22	-14	2	0	b	4	b	41	2	—	
	Stockholm ...	29.95	26	2	0	b	29.92	+2.0	28	28	-8	2	0	b	4	b	43	2	—	
	Wisby ...	29.98	38	WNW	4	b	29.96	+1.7	38	37	-5	SW	2	b	4	b	46	36	—	
	Bodö ...	29.80	34	NE	2	b	29.65	+0.5	33	28	-4	E	4	b	2	b	37	30	—	
	Christiansund...	29.85	37	SE	2	b	29.47	-3.7	38	34	-2	E	2	c	4	b	41	36	0.08	
	Skudesnaes ...	29.92	33	2	0	b	29.58	-2.8	45	40	+6	S	2	o	5	b	45	39	—	
	Christiania Fjord (Færd)	29.94	42	N	2	b	29.78	-0.1	39	38	-3	N	2	b	1	b	45	37	—	
	Skagen (The Scaw)	29.90	40	WNW	2	b	29.82	+0.3	38	36	-4	W	1	b	0	b	46	36	—	
	Fanø ...	29.98	41	WN	2	b	29.88	0.0	42	39	+2	W	2	b	4	b	48	37	—	
BRITISH ISLANDS.	Sumburgh Head	29.80	38	SW	3	c	29.15	-0.5	44	42	+8	W	3	b	5	c	44	36	0.46	
	Stornoway ...	29.78	45	SW	7	o	29.29	-0.1	42	41	+10	W	5	o	6	c.o	46	30	0.52	
	Wick ...	29.85	39	W	4	c	29.25	-0.1	40	39	+6	SW	2	b	3	c	43	33	0.12	
	Nairn ...	29.88	37	WNW	2	b	29.36	-0.7	42	41	+7	WNW	1	c	1	b	42	34	0.05	
	Aberdeen ...	29.99	34	S	2	b	29.41	-0.7	38	36	+6	SW	2	b	4	b.f	42	32	0.04	
	Leith ...	30.07	37	W	1	c	29.50	-0.7	45	43	+13	WNW	4	T	4	c	46	38	0.04	
	Shields ...	30.12	39	WNW	2	b	29.57	-0.5	43	41	+10	SW	1	om	2	b.b	45	29	—	
	Spurn Head ...	30.11	40	WN	3	b	29.79	-0.6	37	36	-1	SW	5	o	5	b.f	45	34	0.02	
	York ...	30.16	34	WNW	1	b	29.71	-0.4	40	37	+10	S	4	o	4	b	43	29	—	
	Loughborough	30.18	32	WN	1	b	29.91	-0.4	37	34	+9	SW	2	om	4	b.g	45	24	—	
GERMANY & HOLLAND.	Ardrossan ...	30.08	46	SW	5	o	29.53	-0.6	49	46	+16	W	5	pg	4	o	49	33	0.22	
	Malin Head ...	30.01	41	S	5	o	29.55	-0.6	48	46	+6	W	7	pg	4	c.o	49	40	0.12	
	Mullaghmore ...	30.05	45	S	5	Tu	29.77	-0.3	51	47	+12	WNW	6	o	4	o.Tu	52	37	0.45	
	Belmullet ...	30.14	36	SW	5	b	29.66	-0.3	44	43	+3	WNW	4	o	2	b	48	35	0.11	
	Liverpool (Bidston)	30.19	39	2	0	b	29.76	-0.3	49	46	+15	SW	4	o	4	b	49	33	—	
	Holyhead ...	30.18	39	WNW	1	b	29.78	-0.4	50	49	+7	WNW	5	om	5	b	50	36	0.08	
	Parsonstown ...	30.20	36	SW	1	o	29.84	-0.4	48	46	+21	SW	1	o	5	o.T	50	25	0.07	
	Valencia ...	30.24	44	SW	1	c	29.94	-0.3	54	51	+17	WNW	5	om	5	c	54	36	0.25	
	Roche's Point	30.25	43	W	1	b	29.91	-0.3	52	52	+15	WNW	2	o	3	b.m	52	37	0.02	
	Pembroke (St. Ann's Hd.)	30.20	43	NE	2	b	29.91	-0.3	51	50	+11	W	7	o	7	b	51	37	—	
FRANCE AND BELGIUM.	Scilly ...	30.20	46	N	5	c	30.07	-0.7	52	47	+5	WNW	6	o	3	b.b	52	41	0.06	
	Prawle Point ...	30.21	38	WNW	2	b	30.08	-0.7	47	44	+10	SW	4	c	3	b	50	34	—	
	Jersey (St. Aubin's)	30.17	45	N	3	b	30.17	+0.7	40	36	-5	W	2	c	2	b.b	49	32	—	
	Hurst Castle ...	30.19	37	WNW	2	m	30.07	-0.7	46	41	+13	WNW	4	b	3	om.m	47	29	—	
	Dungeness ...	30.09	38	N	2	b	30.08	+0.3	32	31	-1	WN	3	m	1	b.b	44	28	—	
	North Foreland	30.10	45	WNW	5	c	30.05	0.0	36	33	-4	WNW	3	c	3	b.c	47	31	—	
	London ...	30.16	40	N	2	b	30.02	-0.9	35	31	+1	SW	2	c	4	b.b.c	44	27	—	
	Oxford ...	30.20	37	2	0	b	29.98	-0.7	36	33	+7	S	3	o	4	b	44	27	—	
	Cambridge ...	30.16	34	WNW	2	b	29.98	-0.3	34	32	+3	SW	4	o	4	b	44	26	—	
	Yarmouth ...	30.08	41	WN	3	b	29.97	-0.4	35	32	-2	WNW	3	c	3	b.c	45	30	0.11	
PENINSULA.	Cuxhaven ...	30.02	39	WN	1	c	30.02	+0.9	39	38	-1	SW	1	b	4	c	41	38	—	
	Berlin ...	30.00	42	2	0	T	30.06	+1.4	38	37	-4	WN	1	b	4	T	45	37	0.24	
	Wiesbaden ...	30.12	43	2	0	T	30.12	+0.3	35	35	-7	WN	1	b	4	T	46	34	—	
	Munich ...	29.97	43	SE	2	c	30.04	+1.5	41	41	+3	WN	2	b	4	c	53	37	—	
	The Helder ...	30.12	44	N	1	b	30.02	+0.1	40	39	-2	S	3	o	2	b	46	37	0.04	
	Brussels (9 a.m.)	30.13	45	WNW	5	T	30.13	+1.2	31	31	-2	SW	1	b	4	b	48	27	—	
	Cape Gris Nez	30.06	45	WNW	5	T	30.06	+0.8	44	42	+1	WNW	4	o	4	T	46	23	0.32	
	Paris ...	30.10	37	N	2	b	30.17	+1.6	28	28	-7	2	0	b	4	b	49	28	—	
	Brest ...	30.15	43	ENE	5	b	30.15	+1.0	47	46	+6	WNW	1	c	3	b	52	37	—	
	Lorient ...	30.15	47	NE	5	b	30.20	+1.7	41	38	-1	E	2	b	2	b	52	37	—	
GERMANY & HOLLAND.	Rochefort ...	30.06	46	NE	4	o	30.16	+2.0	47	4	+5	ENE	3	b	4	o	50	42	—	
	Belfort ...	30.01	46	E	1	m	30.01	0.0	47	43	-1	WNW	2	b	4	m	53	43	—	
	Lyons ...	30.01	41	WNW	2	o	30.09	+2.2	41	40	-4	WNW	1	o	4	o	53	40	—	
	Nice ...	29.86	33	E	2	T	29.86	0.0	33	32	+2	2	0	T	2	T	53	37	0.32	
	Perpignan ...	29.86	33	2	0	o	29.95	+1.1	35	35	-3	WN	3	o	4	o	53	49	—	
	Biarritz ...	29.97	49	E	3	o	30.08	+2.2	45	42	-4	NE	2	o	2	o	61	41	0.04	
	Corunna ...	29.76	38	N	4	b	29.85	+0.8	33	30	0	WNW	5	c	4	c.b	64	33	0.28	
	Lisbon ...	29.76	38	N	4	b	29.85	+0.8	33	30	0	WNW	5	c	4	c.b	64	33	0.28	

For Explanation of Columns, see bottom of last page.

† Received too late for insertion in Charts on next page.



# WEATHER CHARTS

for 8 a.m. on Wednesday, 1<sup>st</sup> Nov. 1893.

## 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:

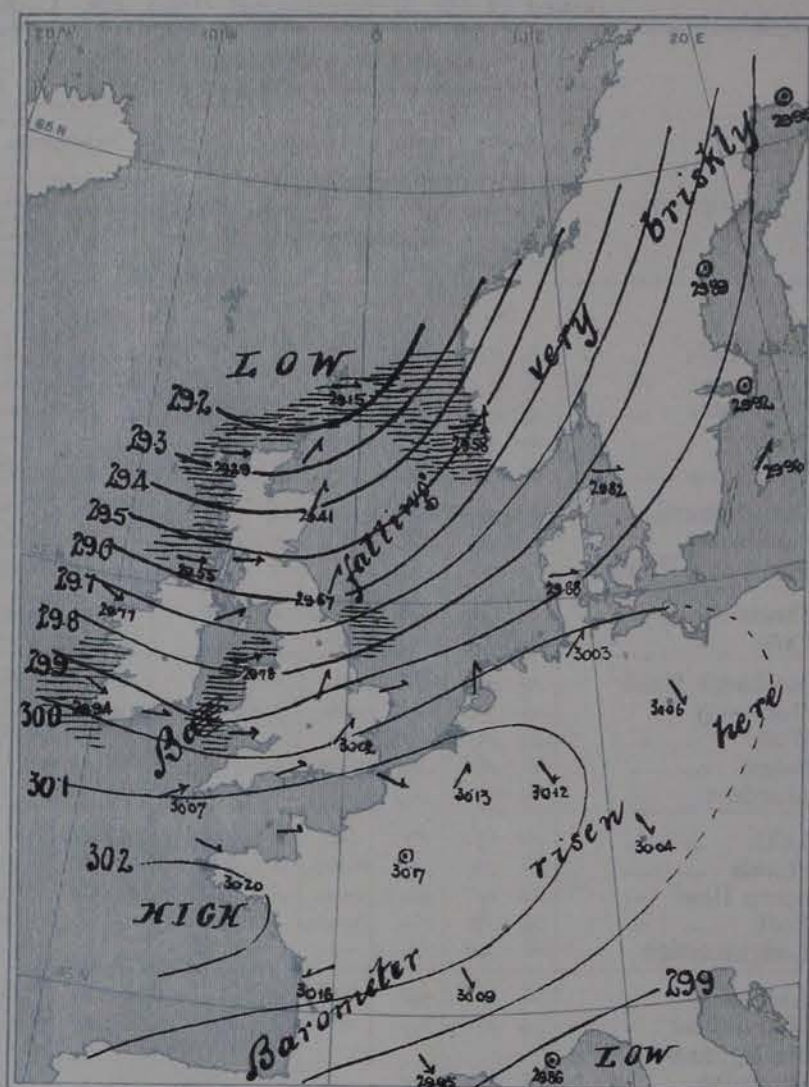
▨ = Rough. ▨ = High.

## MEAN HEIGHT OF THE BAROMETER

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

During the 20 Years 1871—1890.

STATIONS.	MEAN READINGS.
Sumburgh Head	29.683
Stornoway	29.699
Wick	29.722
Nairn	29.738
Aberdeen	29.758
Leith	29.789
Shields	29.813
Spurn Head	29.842
York	29.846
Loughborough	29.877
Ardrossan	29.791
Mullaghmore	29.780
Donaghadee	29.810
Holyhead	29.835
Liverpool	29.851
Parsonstown	29.847
Valencia	29.863
Roche's Point	29.865
Pembroke	29.864
Scilly	29.897
Prawle Point	29.914
Jersey	29.928
Hurst Castle	29.902
Dover	29.893
LONDON	29.898
Oxford	29.890
Cambridge	29.887
Yarmouth	29.865



## 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.

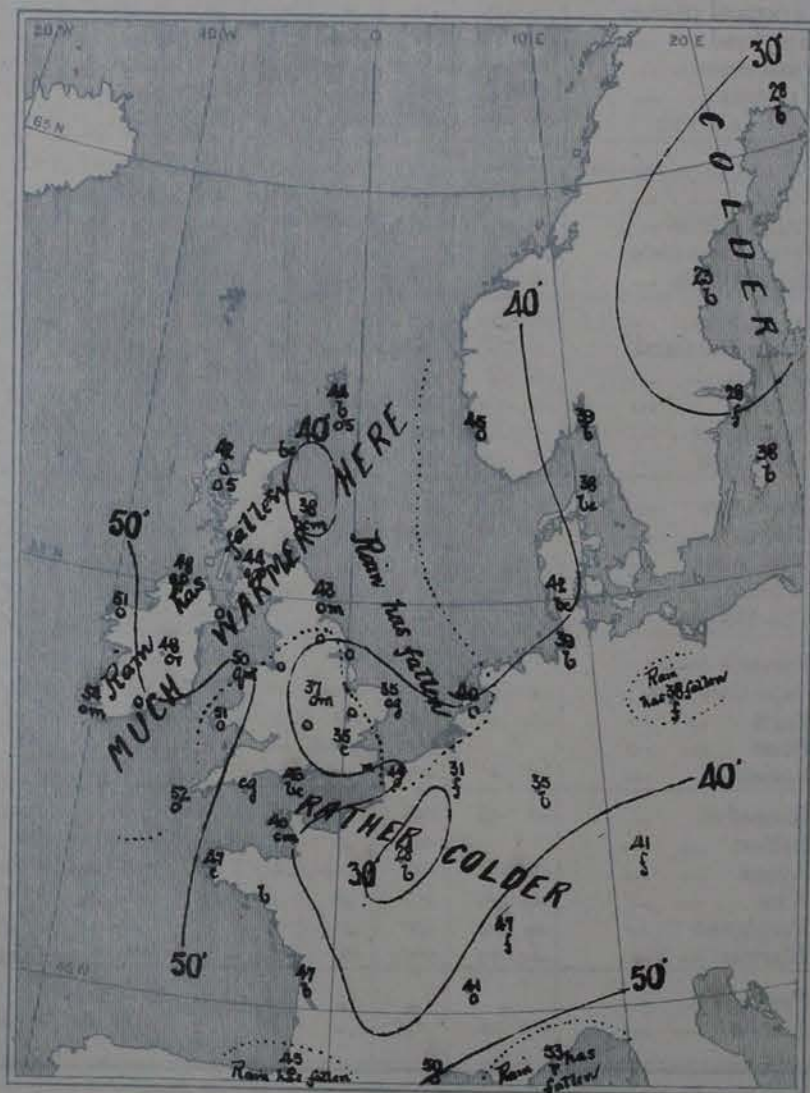
**RAINFALL**—A dotted line separates the districts in which rain has fallen from those where there has been none. Falls of 0.5 in. or more are quoted in figures.

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

(For the month of November.)

STATIONS.	TEMPERATURE.				RAINFALL. (Inches.)
	Daily Max.	Daily Min.	Dry. at 8 a.m.	Wet.	
Sumburgh Head	45.6	37.8	42.0	40.3	4.16
Stornoway	46.2	37.0	41.7	40.7	4.79
Wick	46.1	36.1	41.4	39.8	2.93
Nairn	45.3	35.7	39.8	38.2	2.29
Aberdeen	46.2	36.5	40.5	38.7	3.14
Leith	48.1	37.0	41.7	40.0	2.20
Shields	47.3	37.9	42.1	40.5	2.61
Spurn Head	46.8	40.2	43.2	41.9	2.40
York	47.5	36.4	40.6	39.3	2.19
Loughborough	48.0	36.6	40.5	39.3	2.24
Ardrossan	47.8	39.1	43.1	41.3	3.88
Mullaghmore	49.6	41.2	45.1	43.1	4.48
Donaghadee	48.3	39.2	43.2	42.0	3.20
Holyhead	49.7	42.9	45.8	44.0	3.88
Liverpool	47.8	39.6	42.5	40.7	2.96
Parsonstown	49.1	37.1	41.9	40.2	2.83
Valencia	52.3	43.0	47.4	45.5	5.42
Roche's Point	51.1	42.0	46.1	44.5	4.62
Pembroke	50.1	43.8	46.9	45.1	4.04
Scilly	52.4	46.7	50.0	48.0	3.72
Prawle Point	51.1	41.9	46.2	44.7	3.20
Jersey	51.9	44.1	47.7	45.8	4.30
Hurst Castle	50.5	40.6	44.9	44.0	3.01
Dover	49.3	40.6	44.3	42.8	3.48
LONDON	49.3	38.0	42.2	40.8	2.23
Oxford	48.2	37.6	41.2	40.0	2.31
Cambridge	48.6	35.8	40.7	39.9	2.01
Yarmouth	47.5	39.0	43.1	42.0	3.06

**NOTE**—The Temperature means are for the 20 years 1871-90, the Rainfall means are mainly those for the 25 years 1868-90.





# GENERAL SITUATION AT 8 A.M.

## PRESSURE

Highest, 30.2 in. and more to 30.0 in. in a long ridge of high pressure spreading in from the Atlantic over France to Germany.  
 Lowest, 29.2 in. and less in a large depression which has advanced to our extreme northern regions during the night.  
 Gradients have become steep, but irregular, for W winds over our islands and the North Sea.  
 Barometer falling generally, most in the north.

## TEMPERATURE

Highest, 50° at Lisbon, in the south of France, and on our extreme southern coast.  
 Lowest, (1) 23° at Helsingfors, 28° at Haparanda and Stockholm; (2) 28° at Paris, 31° at Brussels, 32° at Dungeness, 35° in London.  
 It has been very low over our island districts during the night; viz 24° to 30° in the shade over England, 25° at Parnassus, but is now rising quickly, at all stations.

## WIND

W. fresh to a moderate gale at our western and northwestern stations, SW over the eastern half of England, and blowing a gale from S. at Shetland. Over France it is nearly calm, and over the Bay of Biscay there is a light breeze from the E. S. E.  
 A fresh to strong gale from the SW was felt at the Scotch stations during the night.

## WEATHER

Has become cloudy and unsettled in all parts of our islands, but remains clear and bright at most of the Continental stations. Rain has fallen in Ireland and Scotland, but the amounts reported are small, except in the extreme northwest and north, and at Cape Fin Ky and Nise. Thunder and lightning occurred at Bally yesterday morning.

## SEA

Rough in the north and west, moderate in the east, slight at the Channel stations.

## PROBABLE CHANGES IN SYSTEM NOW PREVALENT

The general appearance is very unsettled, and squally winds from W. and NW. are probable — blowing a gale in places, with showers of cold rain — perhaps snow in the north.

# FORECASTS

For the 24 hours ending at NOON on 2<sup>nd</sup> November, 1893.

DISTRICTS.		FORECASTS.	DISTRICTS.		FORECASTS.
0	SCOTLAND NORTH	Strong W <sup>2</sup> to NW <sup>2</sup> winds or gales; squally, rain or sleet, very unsettled.	6	SCOTLAND WEST	Same as N <sup>o</sup> 0 and 1.
1	SCOTLAND EAST		7	ENGLAND N.W.	
2	ENGLAND N.E.	SW <sup>2</sup> and W <sup>2</sup> winds, strong, very unsettled, rain at times.	8	ENGLAND S.W.	W <sup>2</sup> winds, strong; squally, showery.
3	ENGLAND EAST		9	IRELAND NORTH	Same as N <sup>o</sup> 0 and 1.
4	MIDLAND COUNTIES		10	IRELAND SOUTH	
5	ENGLAND SOUTH		WARNINGS		

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



# YESTERDAY'S 2 P.M. REPORTS.

	BAR.	THER.		WIND. Direc.	F.	WEA.	SEA.		BAR.	THER.		WIND. Direc.	F.	WEA.	SEA.
		Dry.	Wet.							Dry.	Wet.				
Skudesnaes ...	29.96	43	41	WNW	1	b	2	Valencia ...	30.27	43	44	SW	1	c	2
Sumburgh Head ...	29.94	39	35	WNW	1	c	3	Scilly ...	30.20	49	46	SW	1	bc	3
Stornoway ...	29.99	44	42	W	3	c	3	Jersey ...	30.14	49	42	NE	4	b	3
Aberdeen ...	30.00	42	36	WNW	2	b	2	Hurst Castle ...	30.15	45	40	NNE	3	fm	2
Shields ...	30.13	44	39	WNW	2	b	2	Dungeness ...	30.07	44	41	N	3	bc	2
Ardrossan ...	30.15	46	43	SW	3	o	2	North Foreland ...	30.07	44	41	N	3	bc	5
Malin Head ...	30.13	44	40	SW	4	c	2	London ...	30.13	43	39	NNW	2	bc	*
Mullaghmore ...								Yarmouth ...	30.05	45	42	NNW	3	c	4
Belmullet ...	30.20	45	41	SW	2	o	*	Rocheport ...	30.00	47	45	NE	3	o	*
Holyhead ...	30.21	44	38	NNE	2	b	2								

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

Weather fine and bright over the United Kingdom generally, but showers of snow or hail reported at one or two of our northern and eastern stations. Fine in Sweden, Finland, the Netherlands, the north of France, and south of Italy, but cloudy in most other parts of the Continent, with fog in the south of Russia, and with rain at Christiania and also at Berlin and Biarritz. Rain falling later in most parts of Ireland and Scotland—heavily in the Shetlands and Hebrides; thunder and lightning occurring at Scilly.

Temperature fallen generally. Morning readings highest 67° at Algiers and 66° at Oran, La Calle, Tunis, and Malta; above 50° in most of the southern countries. Lowest, (1) 27° at Barronstown, 28° at Loughborough, 29° at Oxford, and 30° at York; (2) 30° at Haparanda, 32° at Uleaborg, and 35° at Archangel. Below 40° in most parts of northern and northwestern Europe. Remaining below 45° all day at many of our own northern, eastern, and southeastern stations, but exceeding 50° on our extreme southern coast. Sharp frost occurring over the inland parts of England at night.

Wind light from the NW<sup>2</sup> over the North Sea, and the northern and eastern parts of Great Britain, but N<sup>1</sup> or NE<sup>2</sup> over France, Spain, and the west and south of our Islands. Light from the W<sup>2</sup> in Sweden and Denmark, and from the SW<sup>2</sup> over the greater part of Russia, but variable in Germany and also over the south of France and northern Italy. W<sup>1</sup> in the south of Italy, variable in Algeria. Subsequently backing to the SW<sup>2</sup> on our western and northern coasts, and increasing at night to a fresh or strong gale in Scotland.

Barometer highest, 30.1 ins. to 30.3 ins. in an anticyclone lying over and to the westward of our Islands, and also in another system lying over the southern parts of Russia. Lowest 29.3 ins. and less in a depression over Lapland; 29.8 ins. and less in a large shallow area over Spain and the western part of the Mediterranean. Large depression beginning to advance later from the Atlantic towards our extreme northern coast, and barometer falling quickly in Scotland and the north of Ireland.

### EXPLANATION OF THE 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.

N.B.—The morning observations are made at 8 a.m. in the British Islands, Germany, Sweden, and Norway, 7 a.m. in France, Spain and Portugal, and 9 a.m. in Belgium. The evening observations are made at 6 p.m. in the British Islands (as a rule), and France, 8 p.m. at Oxford, in Sweden, Norway, and Germany, and 9 p.m. in Belgium. The time at each Station is the Standard Time of its Country.

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# DAILY WEATHER REPORT

for 8 a.m. on Thursday, 2<sup>nd</sup> November, 1893

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STATIONS.		YESTERDAY EVENING. (See note at bottom of last page.)					THIS MORNING. (See note at bottom of last page.)										PAST 24 HOURS.				
		BAROM.	TEMP.	WIND.		Weather.	BAROMETER.		SHADE TEMP.			WIND.		Sea (0 to 9).	Weather.	SHADE TEMP.		Amount of Rainfall.			
				Reading at 32° F. and Sea Level.	Dry Bulb.		Dirac.	Force (0 to 12).	Reading at 32° F. and Sea Level.	Change since Yester- day Morn.	Dry Bulb.	Wet Bulb.	Change in dry since Yesterday.			Dirac.	Force (0 to 12).		Max.	Min.	
		Inch.	°				Inch.	°	°	°						°	Inch.				
SCANDINAVIA.	Haparanda ...	29.84	29	SE	2	bc	29.72	-23	30	30	+2	S	2	0	#	bc	34	16	-		
	Hernösand ...	29.69	38	S	4	b	29.53	-36	37	36	+14	HW	2	bc	#	b	41	21	-		
	Stockholm ...	29.73	34	Z	0	b	29.49	-43	37	36	+9	SSE	2	0	#	b	43	27	0.04		
	Wisby ...	29.78	37	HW	2	bc	29.51	-45	38	37	0	S	2	0	#	bc	46	34	0.08		
	Bodö ...	29.41	36	E	6	bc	29.34	-31	38	39	+5	ESE	6	0	3	bc	?	28	-		
	Christiansund...	29.20	43	ESE	4	c	29.17	-30	41	37	+3	SSE	3	bc	5	c	43	38	-		
	Skudesnaes ...	29.28	44	S	6	r	29.24	-34	41	39	-4	HW	4	0	4	r	45	39	-		
	Christiania Fjord (Færd)	29.47	44	SSE	6	r	29.23	-55	42	41	+3	HSW	4	c	5	r	45	39	0.24		
	Skagen (The Scaw)	29.36	43	SW	5	r	29.28	-54	42	40	+4	W	1	r	1	r	45	36	0.16		
	Fanö ...	29.43	46	W	7	r	29.41	-47	43	41	+1	WNW	2	c	#	r	46	41	0.83		
BRITISH ISLANDS.	Sumburgh Head	29.09	41	W	3	c	29.19	+04	36	35	-8	Z	0	0	4	bc, c	47	34	0.40		
	Stornoway ...	29.29	42	WNW	5	chp	29.34	+05	38	38	-4	WNW	4	0	5	o h p	43	35	0.45		
	Wick ...	29.21	39	W	5	0	29.27	+02	36	35	-4	W	2	0	3	o l r s	45	34	0.25		
	Nairn ...	29.35	39	W	1	0	29.37	+01	38	37	-4	Z	0	0	1	0	44	35	0.14		
	Aberdeen ...	29.38	39	SW	2	b	29.41	00	38	35	0	SW	2	bm	2	b	49	32	-		
	Leith ...	29.48	39	WSW	2	bc	29.49	-01	40	39	-5	SW	3	0	#	bc	48	37	0.09		
	Shields ...	29.54	43	W	4	c	29.54	-03	42	40	-1	SW	2	bm	2	op	49	39	0.02		
	Spurn Head ...	29.62	47	WSW	4	op	29.63	-16	43	43	+6	SW	3	0	3	op	47	36	0.06		
	York ...	29.62	46	W	3	cp	29.61	-10	43	42	+3	SW	1	r	#	cp	50	39	0.13		
	Loughborough	29.72	47	W	3	r	29.68	-23	44	43	+7	SW	1	r	#	r	49	37	0.16		
GERMANY & HOLLAND.	Ardrossan ...	29.54	46	WNW	4	bq p	29.50	-03	46	44	-3	W	4	bq p	3	q p, tl	49	42	0.29		
	Malin Head ...	29.59	44	WNW	7	o q p	29.54	-01	47	44	-1	HW	5	op	4	op q	48	43	0.17		
	Mullaghmore ...	29.76	49	WNW	4	bc	29.68	-09	48	47	-3	WNW	4	r	#	o q p, bc	51	46	0.19		
	Belmullet ...	29.67	46	WSW	3	0	29.64	-02	42	42	-2	SW	4	r	2	0	49	41	0.05		
	Donaghadee ...	29.67	46	WSW	3	0	29.64	-02	42	42	-2	SW	4	r	2	0	49	41	0.05		
	Liverpool (Bidston)	29.68	49	W	6	0	29.63	-13	43	43	-6	SSW	2	r	2	0	52	42	0.24		
	Holyhead ...	29.73	50	W	5	o q p	29.65	-13	47	46	-3	W	3	o q m	3	o m q, p	52	45	0.11		
	Parsonstown ...	29.81	48	SW	2	0	29.71	-13	45	41	-3	SW	1	0	#	0 r	50	45	0.23		
	Valencia ...	29.92	53	WSW	5	o q m	29.79	-15	56	55	+2	WSW	7	o q m	6	o q m	56	50	0.13		
	Roche's Point	29.88	52	WNW	3	c	29.75	-16	57	55	+5	W	3	0	3	c r	57	50	0.02		
FRANCE AND BELGIUM.	Pembroke (St. Ann's Hd.)	29.82	54	WNW	6	c	29.68	-23	53	53	+2	WNW	5	r q m	6	o c	56	50	0.30		
	Scilly ...	29.94	54	WNW	4	c	29.88	-19	57	55	+5	W	6	cm	4	m c	57	52	0.02		
	Prawle Point ...	29.90	51	SW	4	c	29.79	-29	50	50	+3	SW	6	cm	5	c d	55	46	0.16		
	Jersey (St. Aubin's)	30.00	53	SW	6	o m u	29.90	-27	58	55	+18	WSW	6	o q m p	5	g m p	58	39	0.02		
	Hurst Castle ...	29.85	54	W	7	0	29.71	-36	55	54	+9	WSW	6	cm	6	cm	55	46	0.11		
	Dungeness ...	29.78	51	WSW	7	a	29.73	-35	50	49	+18	WNW	4	r	3	o d	52	31	0.17		
	North Foreland	29.78	49	SW	5	r	29.73	-32	47	46	+11	WSW	2	o r q	2	o q, r	49	36	0.17		
	London ...	29.79	49	WSW	2	0	29.71	-31	47	46	+12	Z	0	o q m r	#	c o q, o r	50	35	0.28		
	Oxford ...	29.78	48	SW	2	0	29.68	-30	46	46	+10	S	1	r	#	o q	49	36	0.04		
	Cambridge ...	29.73	47	SSW	6	0	29.70	-28	45	45	+11	SSW	1	r	#	0	49	33	0.08		
PENINSULA.	Yarmouth ...	29.69	45	WSW	4	cm	29.69	-28	44	43	+9	SW	3	g m r	3	r q q, cm	45	33	0.21		
	Cuxhaven ...	29.85	41	SSW	6	r	29.57	-46	43	41	+4	WNW	4	bc	#	r	44	39	0.18		
	Berlin ...	29.94	39	S	3	0	29.64	-42	38	37	0	SW	4	r	#	0	45	37	0.16		
	Wiesbaden ...	#	#	#	#	#	29.86	-26	41	40	+6	SW	3	r	#	#	46	36	0.12		
	Munich ...	30.04	41	SW	2	0	29.99	-05	42	39	+1	W	6	0	#	0	43	39	-		
	The Helder ...	30.04	41	SW	2	0	29.99	-05	42	39	+1	W	6	0	#	0	43	39	-		
	Brussels (9 a.m.)	#	#	#	#	#	29.82	-31	45	44	+14	SW	4	r	#	r	45	30	0.12		
	Cape Gris Nez	29.80	52	W	7	0	29.75	-31	51	48	+7	WNW	5	r	5	0	54	44	0.39		
	Paris ...	30.09	39	SSW	2	b	29.95	-22	45	44	+17	SSW	3	0	#	0	48	28	-		
	Brest ...	?	53	W	4	0	?	?	57	55	+10	W	4	0	#	0	57	34	-		
FRANCE AND BELGIUM.	Lorient ...	30.11	52	W	5	0	30.04	-16	57	55	+16	W	6	0	4	0	52	39	-		
	Rochefort ...	30.21	47	HW	2	b	30.19	+03	53	51	+6	W	4	0	#	b	52	47	-		
	Belfort ...	30.14	44	W	1	0	30.22	+13	38	35	-3	WNW	1	bc	#	0	49	36	-		
	Lyons ...	30.14	44	W	1	0	30.22	+13	38	35	-3	WNW	1	bc	#	0	49	36	-		
	Nice ...	29.87	56	Z	0	0	29.84	-02	50	49	-3	E	1	b	1	0	59	50	0.12		
	Perpignan ...	30.04	51	WNW	4	b	30.15	+20	48	43	-2	HW	2	b	#	b	55	46	-		
	Biarritz ...	30.14	53	WNW	3	0	30.22	+14	42	39	-3	ESE	3	bc	2	0	55	39	-		
	Corunna ...	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#	-		
	Lisbon ...	29.99	60	NE	4	0	30.08	+23	59	56	+6	N.E.	4	bc	#	0	?	?	-		

For Explanation of Columns, see bottom of last page.

† Received too late for insertion in Charts on next page.



# WEATHER CHARTS

for 8 a.m. on Thursday, 2<sup>nd</sup> Nov<sup>r</sup> 1893.

## 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

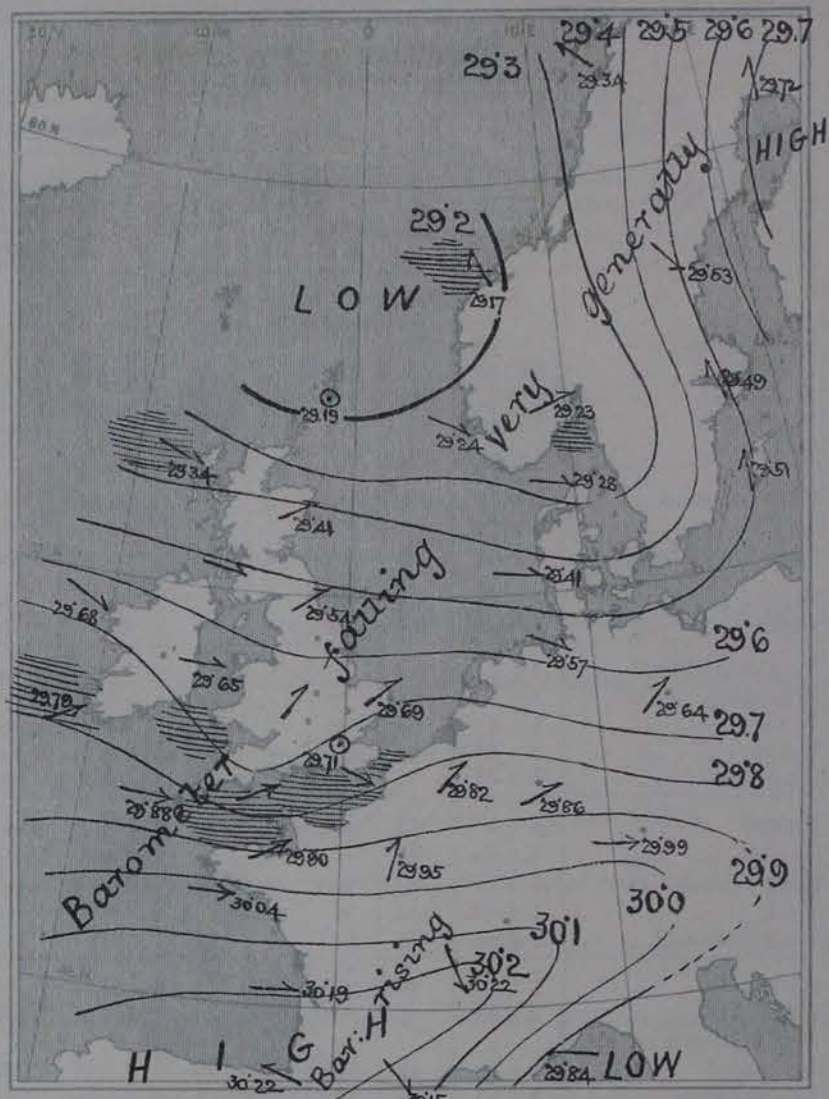
at 8.0 a.m. for the month of November.

During the 20 Years 1871—1890.

### STATIONS.

### MEAN READINGS.

STATIONS.	MEAN READINGS.
Sumburgh Head	29.683
Stornoway	29.699
Wick	29.732
Nairn	29.738
Aberdeen	29.758
Leith	29.789
Shields	29.813
Spurn Head	29.842
York	29.846
Loughborough	29.877
Ardrossan	29.791
Mullaghmore	29.780
Donaghadee	29.810
Holyhead	29.835
Liverpool	29.851
Parsonstown	29.847
Valencia	29.865
Roche's Point	29.865
Pembroke	29.864
Silly	29.897
Prawle Point	29.914
Jersey	29.928
Hurst Castle	29.902
Dover	29.893
LONDON	29.898
Oxford	29.896
Cambridge	29.887
Yarmouth	29.863





# GENERAL SITUATION AT 8 A.M.

## PRESSURE

Highest, 30.2 in: and more to 30.0 in: over the Bay of Biscay and southwest of France.

Lowest, 29.2 in: and less, over the Shetlands and off the coast of Norway.

Gradients rather steep over the Channel and also over Sweden, moderate elsewhere, but irregular.

Barometer rising a little in France, falling elsewhere—most in Ireland.

## TEMPERATURE

Highest, 59° at Lisbon, 55° to 58° on our south and southwest coasts and the west coast of France.

Lowest, 30° at Haparanda; 36° to 38° at most of the Scotch stations.

It has risen fast over the southern half of our Islands, rapidly in the north of France; Paris is 1° warmer than at 8 am yesterday.

## WIND

Variable from the W<sup>2</sup> (SW to NW) over our Islands and the North Sea, and blowing strongly at the Channel stations and Valencia.

In the north and over the North Sea it has fallen light.

## WEATHER

Dull and misty in the south, very rainy over England, changeable in the north.

Thunderstorms occurred at the Scotch stations yesterday, and brilliant aurora was seen there at night.

Rain has fallen very generally, but not heavily, over our Islands and the North Sea.

## SEA

Rough on our south and southwest coasts, rather so at the Norwegian stations.

## PROBABLE CHANGES IN SYSTEM NOW PREVALENT

The depression in the north seems to be filling up, the secondary system over England is moving eastwards, but further disturbances seem to be approaching Ireland as the barometer still falls at Valencia.

## FORECASTS

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

1893.

DISTRICTS.	FORECASTS.	DISTRICTS.	FORECASTS.
0 SCOTLAND NORTH	W <sup>2</sup> and Varying breezes; changeable, some rain.	6 SCOTLAND WEST	Same as Nos 0 to 2.
1 SCOTLAND EAST		7 ENGLAND N.W.	
2 ENGLAND N.E.		8 ENGLAND S.W.	Same as No 5
3 ENGLAND EAST	Same as No 5	9 IRELAND NORTH	SW <sup>2</sup> and W <sup>2</sup> winds, rainy, unsettled.
4 MIDLAND COUNTIES	Same as Nos 0 to 2.	10 IRELAND SOUTH	
5 ENGLAND SOUTH	SW <sup>2</sup> and W <sup>2</sup> winds, strong to a gale and squally, with rain.	At 10.20 am to districts 5 and 8. Hoist South Cone. The North Cone has been lowered in the west and north.	
		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. Direc.	F.	WEA.	SEA.		BAR.	THER.		WIND. Direc.	F.	WEA.	SEA.
		Dry.	Wet.							Dry.	Wet.				
Skudesnaes ...	29.88	45	43	SSC	8	r	6	Valencia ...	29.93	52	52	W	5	o g m	5
Somburgh Head ...	29.11	42	40	W	3	bc	4	Scilly ...	29.96	52	52	WSW	6	m	4
Stornoway ...	29.28	43	42	W	6	0	6	Jersey ...	30.09	50	45	WSW	5	og	4
Aberdeen ...	29.37	47	41	W	3	b	3	Hurst Castle ...	29.93	51	50	WSW	8	o t m	5
Shields ...	29.52	48	45	SW	5	op	2	Dungeness ...	29.90	50	47	WSW	7	0	6
Ardrossan ...	29.50	48	46	W	5	og p	4	North Foreland ...	29.91	49	44	WSW	4	0	4
Malin Head ...	29.53	47	45	HW	6	0	4	London (Westminster) ...	29.86	49	45	SW	5	0	4
Mullaghmore ...								Yarmouth ...	29.78	42	40	SW	6	o g p	4
Belmullet ...	29.75	49	46	W	6	og p	4	Rochefort ...	30.15	50	47	SW	3	0	4
Holyhead ...	29.73	50	47	W	5	og m	5								

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

*Continental Information not received.*

### EXPLANATION OF THE 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.

N.B.—The morning observations are made at 8 a.m. in the British Islands, Germany, Sweden, and Norway, 7 a.m. in France, Spain and Portugal, and 9 a.m. in Belgium. The evening observations are made at 6 p.m. in the British Islands (as a rule), and France, 8 p.m. at Oxford, in Sweden, Norway, and Germany, and 9 p.m. in Belgium. The time at each Station is the Standard Time of its Country.

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" Weekly " " " £1 10 0 "



# DAILY WEATHER REPORT

for 8 a.m. on

Friday, 3<sup>rd</sup> November,

1893

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

STATIONS.		YESTERDAY EVENING. (See note at bottom of last page.)					THIS MORNING. (See note at bottom of last page.)											PAST 24 HOURS.			
		Barom.	Temp.	Wind.		Weather.	Barometer.		Shade Temp.			Wind.		Sea (0 to 9).	Weather.	Shade Temp.		Amount of Rainfall.			
				Force (0 to 12).	Direc.		Reading at 32° F. and Sea Level.	Change since Yester- day Morn.	Dry Bulb.	Wet Bulb.	Change in dry since Yesterday.	Direc.	Force (0 to 12).			Max.	Min.				
		Ins.	°				Ins.	°	°	°						°	ins.				
SCANDINAVIA.	Haparanda ...	29.68	23	ESE	2	0	29.64	-0.08	21	19	-	0	E	2	0	#	0	34	21	-	
	Hernösand ...	29.42	37	NNE	6	0	29.39	-0.03	35	34	-	2	NNE	8	1	#	0	39	30	0.39	
	Stockholm ...	29.28	39	Z	0	8	29.29	-0.01	37	37	-	0	Z	0	f	#	1	41	30	0.12	
	Wisby ...	29.32	43	S	4	0	29.34	-0.02	41	37	+	3	NW	2	0	#	0	43	32	0.24	
	Bodö ...	29.36	36	E	4	6	29.38	+0.02	36	32	-	2	E	2	c	1	6	39	30	-	
	Christiansund...	29.28	41	NSW	4	1	29.43	+0.15	37	36	-	4	SW	4	1	5	1	43	36	0.24	
	Skudesnaes ...	29.31	38	NNE	4	c	29.53	+0.22	41	37	-	0	NW	4	bc	2	c	44	37	-	
	Christiania Fjord (Færdø)	29.25	40	NNE	2	6	29.88	+0.63	36	32	-	6	NNE	4	6	3	6	43	36	-	
	Skagen (The Scaw)	29.29	43	W	2	6	29.34	+0.05	42	37	-	0	NW	1	6	0	6	46	37	0.12	
	Fanö ...	29.47	41	W	3	c	29.61	+0.14	42	39	-	1	NW	6	6	#	rh. cl.	46	38	0.28	
BRITISH ISLANDS.	Sumburgh Head	29.32	38	NNE	3	bc	29.55	+0.23	39	35	+	3	NW	1	c	3	bc	41	34	0.14	
	Stornoway ...	29.54	40	W	3	c	29.63	+0.09	39	38	+	1	SW	2	f	3	0	43	35	0.08	
	Wick ...	29.49	38	NW	4	c	29.59	+0.10	37	36	+	1	NW	2	0	2	0	42	34	0.20	
	Nairn ...	29.57	38	W	1	c	29.65	+0.08	40	38	+	2	Z	0	0	1	c	44	35	0.01	
	Aberdeen ...	29.55	39	W	5	bc	29.70	+0.15	39	36	+	1	SW	1	0	2	bc	46	37	-	
	Leith ...	29.62	40	NSW	1	bc	29.71	+0.09	43	42	+	3	NSW	1	rm	#	bc	49	38	-	
	Shields ...	29.62	44	W	3	c	29.76	+0.14	44	42	+	2	SW	2	d	2	c	50	38	-	
	Spurn Head ...	29.68	46	W	3	c	29.82	+0.14	45	44	+	2	SW	3	0	3	0	47	42	0.05	
	York ...	29.67	46	W	3	c	29.80	+0.13	44	42	+	1	S	1	0	#	c	49	39	-	
	Loughborough	29.77	46	W	1	bc	29.87	+0.10	44	43	-	0	ESE	2	ogm	#	bc	48	41	0.01	
GERMANY & HOLLAND.	Ardrossan ...	29.66	47	W	4	bc	29.67	+0.01	45	44	-	1	ESE	2	dm	2	g.p.	50	43	0.10	
	Malin Head ...	29.70	47	NNE	5	0	29.60	-0.10	48	48	+	1	NSW	2	cd	2	g.p.	49	43	0.07	
	Mullaghmore ...																				
	Belmullet ...	29.79	47	NW	2	0	29.73	+0.05	54	53	+	6	SW	7	om	#	0	54	47	0.03	
	Donaghadee ...	29.75	45	NNE	3	c	29.68	+0.07	48	48	+	6	NSW	3	0	1	c	49	41	0.02	
	Liverpool (Bidston)	29.76	49	W	4	c	29.79	+0.03	48	47	+	5	SE	2	+	2	c	49	43	0.14	
	Holyhead ...	29.79	49	W	2	0	29.79	+0.01	55	54	+	8	NSW	3	cg	3	0	55	47	0.07	
	Parsonstown ...	29.82	47	Z	0	0	29.83	+0.01	54	53	+	9	SW	1	or	#	0	54	44	0.04	
	Valencia ...	29.88	55	NSW	4	om	29.95	+0.07	54	54	-	2	SW	3	om	3	om	56	53	0.01	
	Roche's Point	29.83	54	NNE	3	om	29.93	+0.10	54	52	-	3	NNE	3	bc	3	om	58	53	0.01	
FRANCE AND BELGIUM.	Pembroke (St. Ann's Hd.)	29.82	50	NW	3	0	29.91	+0.09	55	53	+	2	NW	6	od	6	0	55	50	0.06	
	Scilly ...	29.92	57	W	5	c	30.04	+0.12	55	54	-	2	W	4	c	4	map	58	53	-	
	Prawle Point ...	29.88	55	SW	5	1	30.00	+0.12	54	54	+	4	SW	2	om	2	od	56	50	0.05	
	Jersey (St. Aubin's)	29.94	57	NNE	7	c	30.06	+0.12	57	55	-	1	W	4	cgmp	3	cgd	60	55	0.07	
	Hurst Castle ...	29.83	53	NNE	2	od	29.96	+0.13	55	55	-	0	W	2	bc	4	odm	57	48	0.15	
	Dungeness ...	29.75	50	NNE	3	0	29.94	+0.19	51	50	+	1	NNE	3	bc	3	0	52	44	0.19	
	North Foreland	29.75	50	NNE	2	0	29.94	+0.19	47	45	-	0	W	2	b	2	o.f.	51	41	0.03	
	London ...	29.78	49	W	2	0	29.94	+0.16	46	45	-	1	SSW	2	0	#	ot. o. bw	51	43	0.05	
	Oxford ...	29.85	46	W	1	bc	29.91	+0.06	50	49	+	4	SW	4	og	#	p. bc	51	44	0.05	
	Cambridge ...	29.76	46	NSW	1	c	29.92	+0.16	43	43	-	2	SSW	1	0	#	c	51	39	0.05	
PENIN- SULA.	Yarmouth ...	29.69	45	W	3	c	29.88	+0.19	43	42	-	1	NSW	3	bc	3	c	46	39	0.08	
	Cuxhaven ...	29.55	42	W	5	1	29.74	+0.19	41	40	-	2	NW	6	bc	#	1	47	41	0.13	
	Berlin ...	29.63	40	SW	1	6	29.74	+0.11	41	40	+	3	NNE	4	b	#	6	46	38	0.08	
	Wiesbaden ...	*	*	*	*	*	29.97	+0.14	44	43	+	3	W	1	0	#	#	50	41	0.75	
	Munich ...	29.81	45	SW	8	1	30.01	+0.20	43	43	+	1	NW	3	1	#	1	46	42	0.51	
	The Helder ...	29.71	49	NNE	5	6	29.89	+0.18	49	45	-	4	W	5	c	3	6	50	46	0.08	
	Brussels (o a.m.)	*	*	*	*	*	29.99	+0.17	44	43	-	1	SSW	1	c	#	0	49	42	0.32	
	Cape Gris Nez	29.76	33	NW	5	1	29.91	+0.15	52	49	+	1	W	2	b	2	1	54	48	0.32	
	Paris ...	29.90	65	SW	2	0	30.05	+0.15	54	52	+	9	SW	2	0	#	0	55	45	0.08	
	Brest ...	?	57	NNE	3	0	?	?	55	54	-	2	NW	2	f	3	0	59	54	0.04	
PENIN- SULA.	Lorient ...	30.07	57	NNE	6	c	30.12	+0.05	57	54	-	0	W	4	c	3	c	59	54	-	
	Roche fort ...	30.15	57	W	4	0	30.16	-0.01	56	55	+	3	NSW	1	c	#	0	61	?	0.12	
	Belfort ...	?	41	W	3	1	?	?	41	39	+	2	W	3	1	#	1	57	33	0.32	
	Lyons ...	30.16	50	N	1	0	30.22	+0.06	48	46	+	10	W	1	c	#	0	54	38	-	
	Nice ...	29.87	55	Z	0	bc	29.88	+0.01	51	50	+	1	E	2	c	2	bc	63	50	-	
	Perpignan ...	30.14	56	NW	3	6	30.13	-0.01	44	41	-	4	S	2	b	#	6	65	43	-	
	Biarritz ...	30.17	53	E	2	6	30.14	-0.03	40	38	-	2	E	2	b	5	6	57	37	-	
	Corunna ...	*	*	*	*	*	30.05	-0.03	60	57	+	1	NNE	3	c	#	bc	70	57	0.04	
	Lisbon ...	30.08	64	NNE	4	bc	30.05	-0.03	60	57	+	1	NNE	3	c	#	bc	70	57	0.04	

For Explanation of Columns, see bottom of last page.

† Received too late for insertion in Charts on next page.



# WEATHER CHARTS

for 8 a.m. on Friday, 3<sup>rd</sup> November, 1893.

## 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

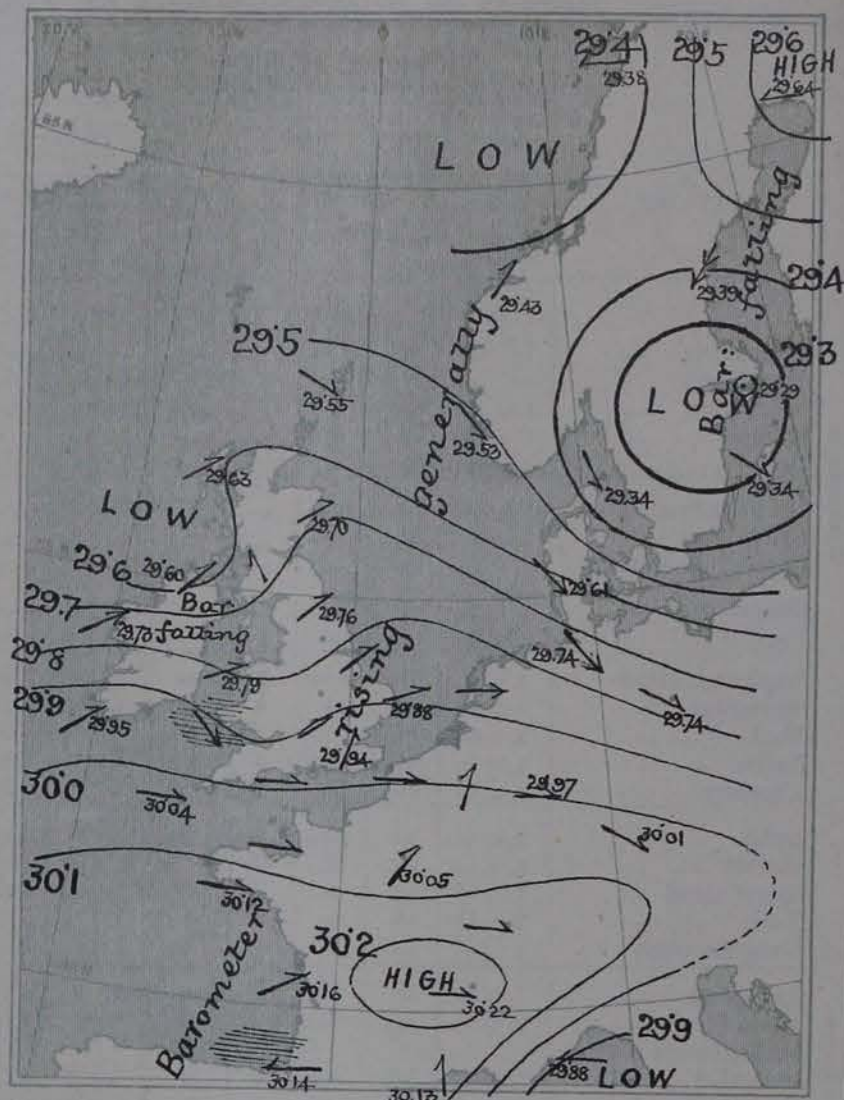
at 8.0 a.m. for the month of November.

During the 20 Years 1871—1890.

#### STATIONS.

#### MEAN READINGS.

STATIONS.	MEAN READINGS.
Sumburgh Head	29.683
Stornoway	29.699
Wick	29.722
Nairn	29.738
Aberdeen	29.758
Leith	29.789
Shields	29.813
Spurn Head	29.842
York	29.846
Loughborough	29.877
Ardrossan	29.791
Mullaghmore	29.780
Donaghadee	29.810
Holyhead	29.835
Liverpool	29.851
Parsonstown	29.847
Valencia	29.865
Roche's Point	29.865
Pembroke	29.864
Seilly	29.897
Prawle Point	29.914
Jersey	29.928
Hurst Castle	29.902
Dover	29.893
LONDON	29.898
Oxford	29.896
Cambridge	29.887
Yarmouth	29.865



## 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.

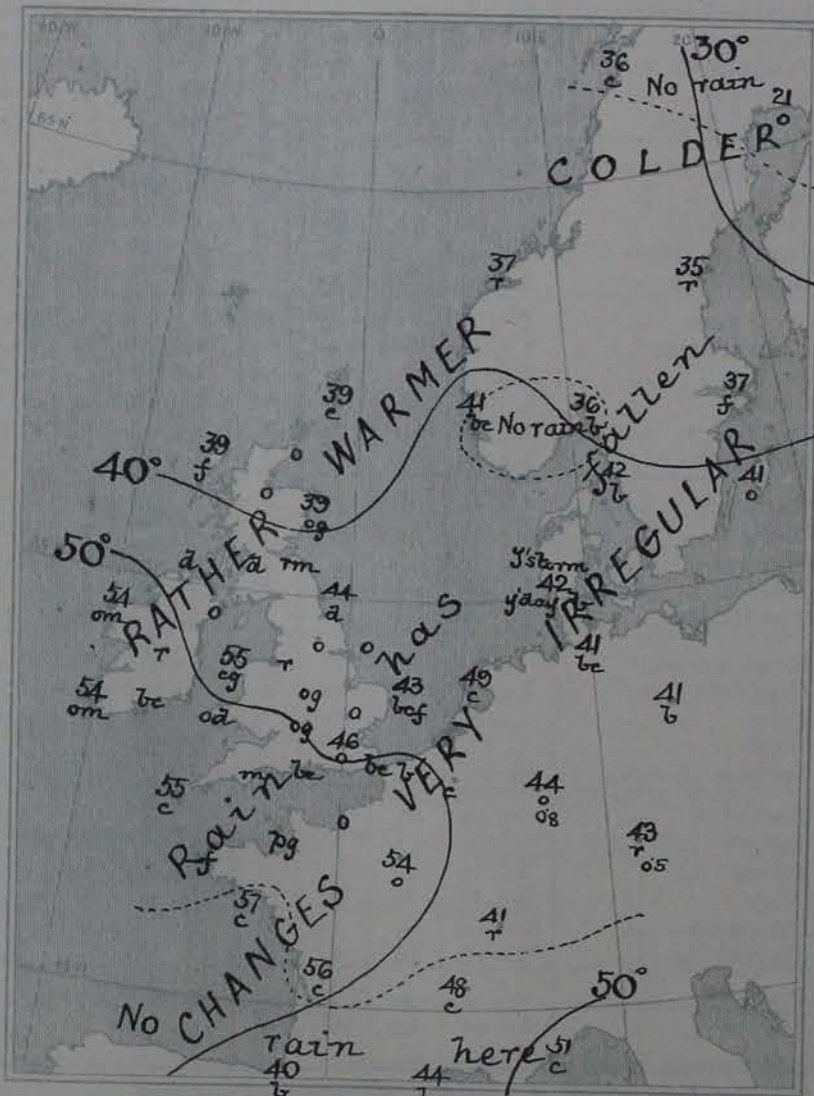
**RAINFALL**—A dotted line separates the districts in which rain has fallen from those where there has been none. Falls of 0.5 in. or more are quoted in figures.

### MEANS OF TEMPERATURE IN SHADE, AND RAINFALL

(For the month of November.)

STATIONS.	TEMPERATURE.				RAINFALL. (Inches.)
	Daily Max.	Daily Min.	OF 24 HRS.		
			Dry.	Wet.	
Sumburgh Head. ....	45.6	37.8	42.0	40.3	4.16
Stornoway .....	46.2	37.0	41.7	40.7	4.70
Wick .....	46.1	36.1	41.4	39.8	2.93
Nairn .....	45.3	35.7	39.8	38.2	2.29
Aberdeen.....	46.2	36.5	40.5	38.7	3.14
Leith.....	48.1	37.0	41.7	40.0	2.20
Shields.....	47.3	37.9	42.1	40.5	2.61
Spurn Head.....	46.8	40.2	43.2	41.9	2.40
York.....	47.5	36.4	40.6	39.3	2.19
Loughborough .....	48.0	36.6	40.5	39.3	2.24
Ardrossan .....	47.8	39.1	43.1	41.3	3.88
Mullaghmore .....	49.6	41.2	45.1	43.1	4.48
Donaghadee, .....	48.3	39.2	43.2	42.0	3.20
Holyhead .....	49.7	42.9	45.8	44.0	3.88
Liverpool .....	47.8	39.6	42.5	40.7	2.90
Parsonstown .....	49.1	37.1	41.9	40.2	2.83
Valencia .....	52.3	43.0	47.4	45.5	5.42
Roche's Point.....	51.1	42.0	46.1	44.5	4.62
Pembroke .....	50.1	43.8	46.9	45.1	4.04
Seilly .....	52.4	46.7	50.0	48.0	3.72
Prawle Point .....	51.1	41.9	46.2	44.7	3.20
Jersey .....	51.9	44.1	47.7	45.8	4.30
Hurst Castle .....	50.5	40.6	44.9	44.0	3.01
Dover .....	49.3	40.6	44.3	42.8	3.48
LONDON .....	49.3	38.0	42.2	40.8	2.23
Oxford .....	48.2	37.0	41.2	40.0	2.31
Cambridge .....	48.6	35.8	40.7	39.9	2.01
Yarmouth .....	47.5	39.0	43.1	42.0	3.06

NOTE.—The Temperature means are for the 20 years 1871-90, the Rainfall means are mainly those for the 25 years 1868-90.





# GENERAL SITUATION AT 8 A.M.

## PRESSURE

Highest, 30.2 ins: and more to 30.0 ins: over France and the Bay of Biscay; 29.6 ins: and more over the east of Scotland.  
 Lowest, 29.3 ins: and less, in a depression near Stockholm; 29.4 ins: and less, in another off the northwest of Norway, and below 29.6 ins: and less in a third off the west of Scotland.  
 Gradient very variable, but mainly moderate for W<sup>ly</sup> and SW<sup>ly</sup> winds.  
 Barometer unsteady, but rising irregularly except in the northwest.

## TEMPERATURE

Highest, 60° at Lisbon, 57° at Jersey, and 50° to 55° at our southern and western stations generally.  
 Lowest, (1) 21° at Haparanda, 37° at Stockholm; (2) 37° at Wick, 33° at Farnborough and Albeden; (3) 41° at Bucharest and Berlin.  
 During yesterday the thermometer rose to 60° at Jersey and ~~Stockholm~~, but did not touch 45° in the north and northeast of Scotland.

## WIND

Very variable from between SW. and NW. over our Islands; NW<sup>ly</sup> strong on the eastern side of the North Sea; Calm at Stockholm; NE<sup>ly</sup> a gale at Haparanda.  
 Over Southern Europe the direction was E<sup>ly</sup>, and force light.

## WEATHER

Very variable. Over the greater part of our Islands it is dull, and at several western stations rain is falling.  
 At most of the Channel stations and in North Germany it is fine, but at several Continental stations the sky is overcast, and at Belfast & Munich rain is falling.  
 Rain fell yesterday except on our northeast coasts; in the south and west of Germany the fall was heavy.

## SEA

Rough at Christiansund, Pembroke, and Biarritz, slight generally elsewhere.

## PROBABLE CHANGES IN SYSTEM NOW PREVALENT

No very decided change of weather is indicated.

# FORECASTS

For the 24 hours ending at NOON on 4<sup>th</sup> NOV<sup>r</sup> 1893.

## DISTRICTS.

## FORECASTS.

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

Varying and SW<sup>ly</sup> winds, rain at times.  
 SW<sup>ly</sup> breezes, moderate; dull, some rain at times.  
 W<sup>ly</sup> and SW<sup>ly</sup> breezes, light; rather changeable, some rain.

## DISTRICTS.

## FORECASTS.

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

SW<sup>ly</sup> winds; rain at times.  
 Same as N° 5.  
 SW<sup>ly</sup> winds; cloudy, showery.

## WARNINGS

The SOUTH CONE which was hoisted yesterday morning in districts 5 and 8 was lowered again last evening.

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.	F.	WEA.	SEA.		BAR.	THER.		WIND.	F.	WEA.	SEA.
		Dry.	Wet.	Dir.						Dry.	Wet.	Dir.			
Skudesnaes ...	29.31	44	39	W	2	c	3	Valencia ...	29.83	56	56	W	6	sm	6
Sumburgh Head ...	29.21	41	37	NW	4	c	4	Scilly ...	29.89	57	55	W	6	cym	4
Stornoway ...	29.45	42	39	NW	4	c	4	Jersey ...	29.91	60	56	W	6	o	5
Aberdeen ...	29.45	45	39	W	4	c	3	Hurst Castle ...	29.75	55	54	NW	5	adm	6
Shields ...	29.55	48	44	W	3	c	2	Dungeness ...	29.67	52	51	W	3	o	2
Ardrossan ...	29.58	46	44	W	4	b	3	North Foreland ...	29.65	51	49	NW	3	o	2
Malin Head ...	29.64	47	44	NW	5	o	3	London (Westminster) ...	29.69	52	50	W	3	o	2
Mullaghmore ...	29.75	50	46	NW	2	o	2	Yarmouth ...	29.63	46	45	W	2	c	3
Belmullet ...	29.75	50	46	NW	2	o	2	Rochefort ...	30.15	59	55	NW	4	o	*
Holyhead ...	29.71	49	47	W	2	o	2								

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

Weather dull and rainy over the greater part of Ireland, England, the Netherlands and Germany, but fine at many of the Scotch stations, as well as in the west of Norway. Fine also over Spain and the south of France, but cloudy or overcast in Italy, Austria and Russia, with snow at St. Petersburg. Some improvement taking place later over Ireland and England, but sky remaining cloudy. Rain falling over the N. parts of France, and a thunderstorm occurring at Paris.

Temperatures fallen in the west and north of our Islands, as well as in Russia and the northern parts of France, risen in most other countries. Morning readings highest 78° at Malta, 71° at Palermo and Tunis, and 70° at Brindisi; above 60° at several of the Mediterranean and Adriatic stations, and above 55° on our own extreme southwest coasts. Lowest 44° at Archangel, 28° at Kuopio, 29° at Uleaborg, and 30° at Moscow; below 40° over the northern parts of Scotland. Rising during day to 50° or more at several of the English and Irish stations, and reaching 60° at Jersey. Exceeding 60° over the S. parts of France.

Wind W. or SW. over our Islands, Denmark, Germany, the Netherlands, and the N. parts of France; light or moderate in force generally, but strong in the English Channel and the south of Ireland. Light from S. in Sweden, eastern Germany and the southern parts of Russia; SE. in the west of Norway. Variable in Italy and Algeria, NW. in the south of France; NE. or E. in Spain. Wind veering to the W. or NW. later in all parts of the United Kingdom and subsiding at the Channel stations.

Barometer highest 30.2 ins. and upwards in an anticyclone over Spain and the S. of France; 30.0 ins. and upwards in another system over the Black Sea and its immediate neighbourhood. Lowest 29.2 ins. and less in a depression lying to the westward of Norway; small secondary systems observed over various parts of our Islands. Depressions moving eastwards later and barometer rising decidedly over the United Kingdom.

### General Remarks on the Weather for 24 hrs ending 8 am on Nov. 2<sup>nd</sup> 1893.

Weather fine in the northeast of Scotland, as well as at some of our extreme southern stations, but dull in other parts of the United Kingdom, with showers in the northwest. Cloudy or overcast in most of the continental countries, with fog in places, and with rain at Marseilles, Florence and Barcelona. Fine in Sweden, Denmark and the northern parts of France. Rain falling later in nearly all parts of our Islands and the Continent, - amounts large over northern Italy.

Temperatures fallen over northern and central Europe, but risen elsewhere, - especially over the United Kingdom. Morning readings highest 77° at Spas, 73° at Malta, 70° at Palermo, and 68° at Calcutta and Tunis; above 55° at the Mediterranean and Adriatic stations generally, and above 50° on our own western coasts. Lowest (1) 23° at Heraklion, 28° at Haparanda, and 29° at Helsingfors; (2) 28° at Paris, 29° at Münster, and 31° at Brussels; (3) 32° at Dungeness, and 34° at Cambridge. Rising during day to 50° or more in several parts of Ireland, England and France, and exceeding 55° on our southwest coasts. Exceeding 60° over S. Europe generally, and exceeding 70° in Sicily and the S. of Spain.

Wind fresh or strong from the W. or our W. coasts; moderate from the SW. in the E. and S. of our Islands, and also over the Netherlands; S. or SE. in the W. of Norway, with a gale at Skudesnaes. Calm in Sweden, variable in Russia, NW. in Germany, NE. in Spain and the S. of France. Variable in Italy and Algeria. Subsequently veering to a moderate gale from the W. at some of the Channel stations, and to a fresh gale from SW. at the Helles.

Barometer highest 30.1 ins. to 30.2 ins. in an anticyclone spreading from the Atlantic over the Bay of Biscay and France, and also in another system over the S. parts of Russia. Lowest 29.2 ins. and less in a depression lying off the N. of Scotland; gradients rather steep over our Islands and the North Sea. Depression subsequently moving N. but small secondary systems travelling E. across the United Kingdom.

#### EXPLANATION OF THE 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.

N.B.—The morning observations are made at 8 a.m. in the British Islands, Germany, Sweden, and Norway, 7 a.m. in France, Spain and Portugal, and 9 a.m. in Belgium. The evening observations are made at 6 p.m. in the British Islands (as a rule), and France, 8 p.m. at Oxford, in Sweden, Norway, and Germany, and 9 p.m. in Belgium. The time at each Station is the Standard Time of its Country.

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# DAILY WEATHER REPORT

for 8 a.m. on Saturday, 4<sup>th</sup> November, 1893

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

STATIONS.		YESTERDAY EVENING. (See note at bottom of last page.)					THIS MORNING. (See note at bottom of last page.)										PAST 24 HOURS.			
		Barom.	Temp.	Wind.		Weather.	Barometer.		Shade Temp.			Wind.		Sea (0 to 9).	Weather.	Shade Temp.		Amount of Rainfall.		
				Reading at 32° F. and Sea Level.	Dry Bulb.		Dir.	Force (0 to 12).	Reading at 32° F. and Sea Level.	Change since Yesterday Morn.	Dry Bulb.	Wet Bulb.	Change in dry since Yesterday.			Dir.	Force (0 to 12).		Max.	Min.
Ins.		°				Ins.	°	°										oz.		
SCANDINAVIA.	Haparanda ...	29.52	22	NE	4	S	29.42	- .22	19	19	- .2	E	2	S	#	S	27	18	0.20	
	Hernösand ...	29.45	33	NE	4	S	29.36	- .03	32	31	- .3	SE	0	S	#	S	37	32	1.14	
	Stockholm ...	29.42	36	W	0	O	29.47	+ .18	36	35	- .1	W	0	O	#	O	41	34	-	
	Wisby ...	29.45	39	NE	6	O	29.40	+ .06	37	36	- .4	SE	4	O	#	O	41	34	0.12	
	Bodö ...	29.36	30	E	4	C	29.30	- .08	33	31	- .3	E	2	O	1	C	36	30	-	
	Christiansund...	29.47	37	SW	3	bc	29.37	- .06	36	33	- .1	SW	3	C	5	bc	39	34	0.16	
	Skudesnaes ...	29.58	40	W	0	C	29.53	- .00	34	33	- .1	NE	2	S	2	C	45	32	-	
	Christiania Fjord (Fæder)	29.53	40	NE	4	b	29.39	+ .01	34	33	- .2	NE	4	bc	2	b	43	34	-	
	Skagen (The Scaw)	29.52	42	N	1	C	29.35	+ .01	38	37	- .4	W	0	C	0	C	45	36	0.16	
	Fanø ...	29.61	43	W	0	T	29.28	- .33	47	47	+ .5	NE	6	C	#	T	52	42	0.43	
BRITISH ISLANDS.	Sumburgh Head	29.60	34	N	1	C	29.65	+ .10	34	33	- .5	NE	4	S	4	T, C	40	31	0.09	
	Stornoway ...	29.59	40	W	0	f	29.42	+ .29	37	36	- .2	N	4	O	4	f	42	34	0.06	
	Wick ...	29.57	37	NE	3	O	29.79	+ .20	34	33	- .3	N	6	O	3	Sp	39	32	0.15	
	Nairn ...	29.58	37	W	0	T	29.41	+ .26	34	32	- .6	NE	1	bc	1	T	42	32	0.21	
	Aberdeen ...	29.60	36	NE	2	og	29.88	+ .18	34	33	- .5	NE	5	bc	3	og	42	33	0.40	
	Leith ...	29.54	41	NE	1	T	29.94	+ .23	37	34	- .6	NE	2	b	#	T	44	34	0.80	
	Shields ...	29.57	56	NE	4	O	29.90	+ .14	39	36	- .5	NE	3	b	2	og	56	37	0.15	
	Spurn Head ...	29.71	55	NE	4	og	29.84	+ .02	45	44	- .1	N	4	cp	4	og	54	44	0.04	
	York ...	29.70	55	NE	3	C	29.87	+ .07	42	42	- .2	NE	2	C	#	C	57	42	0.05	
	Loughborough	29.81	55	NE	6	C	29.87	- .00	46	45	+ .2	N	3	gmr	#	C	63	44	0.02	
GERMANY & HOLLAND.	Ardrossan ...	29.53	53	SW	5	T	29.97	+ .30	38	36	- .7	N	1	b	0	T	53	35	0.26	
	Malin Head ...																			
	Mullaghmore ...																			
	Belmullet ...	29.69	54	SW	6	om	30.03	+ .30	45	42	- .9	ENE	3	C	#	om	56	42	0.04	
	Donaghadee ...	29.65	55	SW	5	O	29.98	+ .30	45	41	- .3	ENE	5	bc	4	O	57	43	0.03	
	Liverpool (Bidston)	29.74	56	W	6	bc	29.93	+ .14	42	40	- .6	N	3	b	4	bc	58	42	0.02	
	Holyhead ...	29.77	56	SW	4	C	29.94	+ .15	47	43	- .8	NE	5	cp	5	og	57	47	0.08	
	Parsonstown ...	29.80	54	NE	1	O	30.00	+ .17	43	41	- .11	W	0	O	#	b	56	42	0.20	
	Valencia ...	29.91	55	SW	4	O	29.94	- .01	52	51	- .2	ENE	3	O	3	om	57	51	0.04	
	Roche's Point	29.91	55	W	4	C	29.95	+ .02	48	46	- .6	ENE	3	O	3	C	57	48	-	
FRANCE AND BELGIUM.	Pembroke (St. Ann's Hd.)	29.87	55	W	5	C	29.91	- .00	50	50	- .5	NE	4	cp	4	C	55	50	0.03	
	Scilly ...	30.00	55	SW	4	f	29.95	- .09	53	52	- .2	NE	4	f	3	f	56	51	0.05	
	Prawle Point ...	30.01	53	SW	4	C	29.95	- .05	52	51	- .2	SW	4	og	3	C	57	51	0.05	
	Jersey (St. Aubin's)	30.04	56	W	4	bc	29.98	- .08	55	53	- .2	SW	3	odm	3	cp	60	53	0.05	
	Hurst Castle ...	29.97	55	SW	5	C	29.92	- .04	55	53	- .0	SW	5	C	4	C	59	53	-	
	Dungeness ...	29.91	55	W	4	C	29.86	- .08	54	52	+ .3	W	5	O	4	C	59	48	-	
	North Foreland	29.89	54	W	2	bc	29.85	- .09	53	50	+ .6	W	2	bc	2	O, b	58	46	-	
	London ...	29.89	55	W	4	C	29.87	- .07	53	52	+ .7	SW	2	O	#	O, bc	59	45	-	
	Oxford ...	29.88	53	SW	3	O	29.85	- .06	53	51	+ .3	SW	4	og	#	C, od	60	49	-	
	Cambridge ...	29.85	54	SW	5	b	29.82	- .10	53	51	+ .10	SW	5	O	#	b	61	41	-	
PENINSULA.	Yarmouth ...	29.79	53	SW	2	b	29.78	- .10	48	47	+ .5	NE	4	og	4	bc, b	54	41	0.01	
	Cuxhaven ...	29.82	51	W	3	O	29.50	- .24	51	50	+ .10	W	7	T	#	O	52	41	0.12	
	Berlin ...	29.86	44	NE	3	O	29.61	- .13	53	51	+ .12	SW	5	O	#	O	54	41	0.20	
	Wiesbaden ...						29.92	- .05	51	49	+ .7	W	0	O	#	#	52	44	-	
	Munich ...	30.13	46	SW	3	T	30.05	+ .04	44	44	+ .1	SW	2	O	#	T	64	41	0.43	
	The Helder ...	29.78	53	SW	4	O	29.68	- .21	54	52	+ .5	SW	7	C	4	O	54	48	-	
	Brussels (9 a.m.)						29.88	- .11	51	50	+ .7	SW	6	O	#	O	54	43	-	
	Cape Gris Nez	29.89	56	SW	4	bc	29.84	- .07	55	52	+ .3	W	6	C	6	bc	55	48	-	
	Paris ...	30.08	54	SW	2	O	30.00	- .05	51	50	- .3	SW	2	O	#	O	58	50	-	
	Brest ...		54	W	2	f			57	57	+ .2	NE	1	m	2	f	61	46	0.08	
PENINSULA.	Lorient ...	30.09	56	SW	3	C	30.00	- .12	52	52	- .5	ENE	3	f	2	C	61	50	0.04	
	Rochefort ...	30.13	57	W	1	O	30.01	- .15	53	53	- .3	E	3	f	#	bc, O	64	52	-	
	Belfort ...		52	SW	2	f			45			W	3	f	#	f	56	43	-	
	Lyons ...	30.14	54	N	2	O	30.06	- .16	50	48	+ .2	NE	1	O	#	O	59	41	-	
	Nice ...	29.99	58	SE	1	O	30.02	+ .14	53	52	+ .2	E	2	C	2	O	66	51	-	
	Perpignan ...	30.05	52	W	0	b	30.04	- .09	46	44	+ .2	S	2	O	#	O	75	37	-	
	Biarritz ...	30.05	55	ENE	3	b	29.91	- .23	48	45	+ .8	ENE	4	b	3	b	63	40	-	
	Corunna ...																			
	Lisbon ...	29.95	64	E	3	O	29.88	- .17	61	59	+ .1	SE	3	O	#	O	70	59	0.59	

For Explanation of Columns, see bottom of last page.

Received too late for insertion in Charts on next page.



# WEATHER CHARTS

for 8 a.m. on Saturday, 4<sup>th</sup> Nov<sup>r</sup> 1893.

## 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:

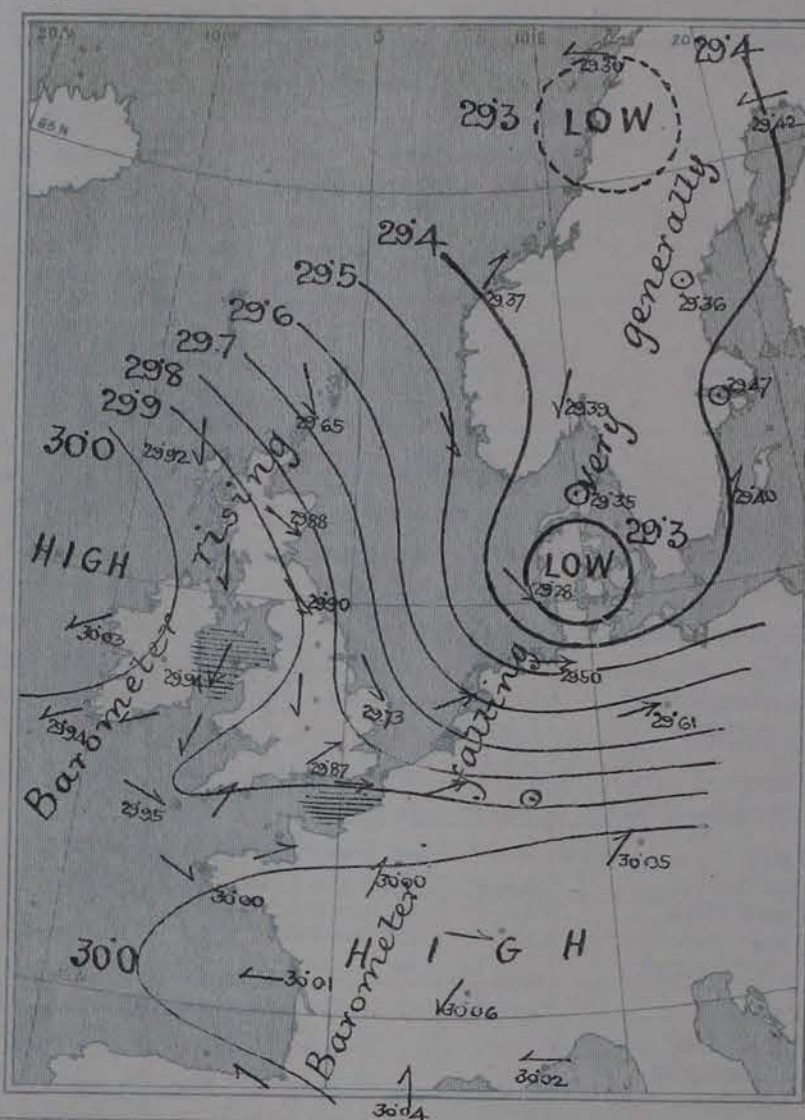
☼ = Rough. ☼ = High

### MEAN HEIGHT OF THE BAROMETER

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

During the 20 Years 1871—1890.

STATIONS.	MEAN READINGS.
Sumburgh Head	29.683
Stornoway	29.689
Wick	29.722
Nairn	29.738
Aberdeen	29.758
Leith	29.789
Shields	29.813
Spurn Head	29.842
York	29.846
Loughborough	29.877
Ardrossan	29.791
Mullaghmore	29.780
Donaghadee	29.810
Holyhead	29.835
Liverpool	29.851
Parsonstown	29.847
Valencia	29.865
Roche's Point	29.865
Pembroke	29.864
Scilly	29.897
Prawle Point	29.914
Jersey	29.928
Hurst Castle	29.902
Dover	29.893
LONDON	29.898
Oxford	29.890
Cambridge	29.887
Yarmouth	29.865



## 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.

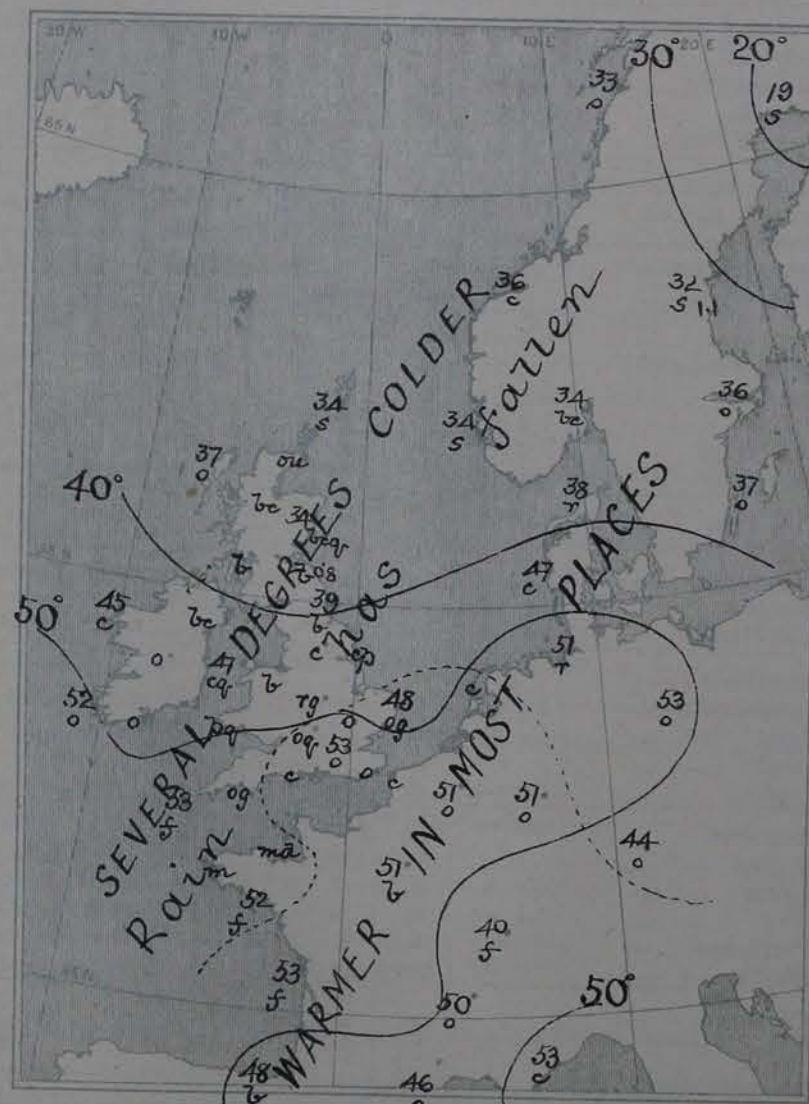
**RAINFALL**—A dotted line separates the districts in which rain has fallen from those where there has been none. Falls of 0.5 in. or more are quoted in figures.

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

(For the month of November.)

STATIONS.	TEMPERATURE.				RAINFALL. (Inches.)
	Daily Max.	Daily Min.	Dry. at 8 a.m.	Wet.	
Sumburgh Head	45.6	37.8	42.0	40.3	4.10
Stornoway	46.2	37.0	41.7	40.7	4.70
Wick	46.1	36.1	41.4	39.8	2.03
Nairn	45.3	35.7	39.8	38.2	2.29
Aberdeen	46.2	36.5	40.5	38.7	3.14
Leith	48.1	37.0	41.7	40.0	2.20
Shields	47.3	37.0	42.1	40.5	2.61
Spurn Head	46.8	40.2	43.2	41.9	2.40
York	47.5	36.4	40.6	39.3	2.19
Loughborough	48.0	36.0	40.5	39.3	2.24
Ardrossan	47.8	39.1	43.1	41.3	3.88
Mullaghmore	49.6	41.2	45.1	43.1	4.48
Donaghadee	48.3	39.2	43.2	42.0	3.20
Holyhead	49.7	42.9	45.9	43.0	3.88
Liverpool	47.8	39.6	42.5	40.7	2.96
Parsonstown	49.1	37.1	41.9	40.2	2.83
Valencia	52.3	43.0	47.4	45.5	5.42
Roche's Point	51.1	42.0	46.1	44.5	4.62
Pembroke	50.1	43.8	46.9	45.1	4.04
Scilly	52.4	46.7	50.0	48.0	3.72
Prawle Point	51.1	41.9	46.2	44.7	3.29
Jersey	51.9	44.1	47.7	45.8	4.30
Hurst Castle	50.5	40.6	44.0	44.0	3.01
Dover	49.3	40.8	44.3	42.8	3.48
LONDON	49.3	38.0	42.2	40.8	2.23
Oxford	48.2	37.6	41.2	40.0	2.31
Cambridge	48.6	35.8	40.7	39.9	2.01
Yarmouth	47.5	39.0	43.1	42.0	3.06

NOTE.—The Temperature means are for the 20 years 1871-90, the Rainfall means are mainly those for the 25 years 1865-90.





# GENERAL SITUATION AT 8 A.M.

## PRESSURE

Highest, 30.0 in: and more (1) over France and the eastern part of the Bay of Biscay, (2) over the north and northwest of Ireland and adjacent parts of the Atlantic.  
 Lowest, 29.5 in: and less, in a depression over Denmark, and below 29.5 in: in a well marked "V" stretching from our North Sea coasts across England to the Bristol Channel.  
 Gradients steep for NW winds over the North Sea, slight and variable over the United Kingdom and France.  
 Barometer rising decidedly in the north and west, falling over Denmark, Germany, and France.

## TEMPERATURE

Highest, 50° to 55° over the southern parts of our Islands and the greater part of France.  
 Lowest, 34° to 38° over Scotland and the south of Norway, 42° at York.  
 The maxima recorded over England yesterday were as high as 55° to 63°, those in Scotland were below 45°, and that at Wick was only 39°.

## WIND

Have shifted to the N<sup>th</sup> over all the northern and northwestern parts of our Islands, but still W<sup>th</sup> in the south and over the Channel.  
 It is blowing a moderate gale from W. in the Netherlands; is light and variable over France, and E<sup>th</sup> over the Bay of Biscay.  
 The W<sup>th</sup> current of wind seems to be dying out on our coasts.

## WEATHER

Very dull over Ireland and the southern part of England, but fine and bright at many of our more northern stations but unsettled generally. Rain is falling on our east coast and on the eastern side of the North Sea, snow in many parts of Scandinavia.

## SEA

Rather rough at Holyhead and Cape Fin Ky, moderate or slight in most other regions.

## PROBABLE CHANGES IN SYSTEM NOW PREVALENT

The distribution of pressure is very complex, but the northern high pressure appears to be spreading, and cold N<sup>th</sup> or NE<sup>th</sup> winds seem likely to spread over our southern districts, as well as continuing in the north.

# FORECASTS

For the 24 hours ending at NOON on 5<sup>TH</sup> NOV<sup>R</sup> 1893.

## DISTRICTS.

## FORECASTS.

## DISTRICTS.

## FORECASTS.

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

N<sup>th</sup> and NW<sup>th</sup> winds; colder, unsettled at first, finer later.  
 Varying SW<sup>th</sup> breezes, rainy; probably N<sup>th</sup> winds and colder tomorrow.

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

N<sup>th</sup> and NW<sup>th</sup> breezes; colder, fair.  
 W<sup>th</sup> to N<sup>th</sup> breezes; changeable, some rain, colder.  
 NE<sup>th</sup> and N<sup>th</sup> winds; fair colder.

## WARNINGS

None issued.

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



# YESTERDAY'S 2 P.M. REPORTS.

	BAR.	THER.		WIND.	F.	WEA.	SEA.		BAR.	THER.		WIND.	F.	WEA.	SEA.
		Dry.	Wet.	Dirac.						Dry.	Wet.	Dirac.			
Skudesnaes ...	29.52	44	43	11W	4	shg	2	Valencia ...	29.93	57	56	SW	4	om	4
Sumburgh Head ...	29.61	38	37	2	0	r	3	Scilly ...	30.01	55	54	WSW	4	f	4
Sternoway ...	29.62	42	41	SW	2	f	2	Jersey ...	30.06	60	55	W	5	c	4
Aberdeen ...	29.64	41	39	WSW	1	ogr	1	Hurat Castle ...	29.96	59	57	WSW	4	bc	5
Shields ...	29.63	46	45	S	2	gd	2	Dungeness ...	29.91	58	56	W	4	c	3
Ardrossan ...	29.56	53	53	N	3	7	3	North Foreland ...	29.89	58	55	W	4	o	3
Malin Head ...	29.54	53	53	SW	6	o	4	London (Westminster) ...	29.90	60	56	SW	3	c	3
Mullaghmore ...	29.71	56	53	SW	6	o	4	Yarmouth ...	29.82	52	51	WSW	3	bc f	3
Belmullet ...	29.71	56	53	SW	6	o	4	Rochefort ...	30.14	64	62	WSW	1	bc	4
Holyhead ...	29.60	56	54	WSW	4	og	3								

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

Weather dull and unsettled over the greater part of our Islands, with rain at several of the western and northern stations. Fine on the southeast coast of England as well as in Denmark, the south of Norway, and in isolated parts of southern Europe; cloudy over the Continent generally, with rain at some of the Scandinavian and German stations, and with snow at St. Petersburg. Rain falling later in all the more western parts of the United Kingdom, and snow showers in the north of Scotland.

Temperatures risen in most of the western countries, but changed irregularly elsewhere. Morning reading highest 69° at Malta, 68° at Sfax, 66° at Algiers, and 65° at Naples and Palermo; reaching 55° or more on some parts of our own southwestern coast. Lowest, 17° at Uleaborg, 21° at Haparanda, 23° at Archangel and Kuopio, and 32° at St. Petersburg. Daily maxima below 45° at most of the Scotch stations, but exceeding 55° over England and Ireland generally, and exceeding 60° at some of the Central English stations, as well as in the west and south of France. Frost occurring over Scotland at night.

Wind SW<sup>1</sup> or W<sup>1</sup> over the greater part of our Islands, the Netherlands, and the north of France; light or moderate in force generally, but strong in the west of Ireland. NW<sup>1</sup> over Denmark, Germany, Austria, and Italy; S<sup>2</sup> over the greater part of Prussia; E<sup>1</sup> or NE<sup>1</sup> over the northern parts of Scandinavia, with a gale at Helsingfors. Variable over the southern parts of France, NE<sup>1</sup> in Spain. No important change occurring over Western Europe later.

Barometer highest 30.1 ins. to 30.25 ins. in an anticyclone lying over the Bay of Biscay, France, Spain, and Algeria. Lowest, 29.3 ins. and less, in a well-marked depression over the south of Sweden; 29.4 ins. and less, in another disturbance off the west of Norway; 29.6 ins. and less, in a third system off the west of Scotland. Fresh disturbances forming later off the northeast coast of Great Britain, and barometer falling over Western Europe generally.

### EXPLANATION OF THE 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.

N.B.—The morning observations are made at 8 a.m. in the British Islands, Germany, Sweden, and Norway, 7 a.m. in France, Spain and Portugal, and 9 a.m. in Belgium. The evening observations are made at 6 p.m. in the British Islands (as a rule), and France, 8 p.m. at Oxford, in Sweden, Norway, and Germany, and 9 p.m. in Belgium. The time at each Station is the Standard Time of its Country.

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Weekly " " " £1 10 0 "



# DAILY WEATHER REPORT

for 8 a.m. on Sunday 5<sup>th</sup> November,

1893

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

STATIONS.		YESTERDAY EVENING. (See note at bottom of last page.)					THIS MORNING. (See note at bottom of last page.)											PAST 24 HOURS.			
		BAROM.	TEMP.	WIND.		Weather.	BAROMETER.		SHADE TEMP.			WIND.		Weather.	Sea (0 to 9).	Weather.	SHADE TEMP.		Amount of Rainfall.		
				Reading at 32° F. and Sea Level.	Dry Bulb.		Dir.	Force (0 to 12).	Reading at 32° F. and Sea Level.	Change since Yester- day Morn.	Dry Bulb.	Wet Bulb.	Change in dry since Yesterday.				Dir.	Force (0 to 12).		Max.	Min.
		Inch.	°				Inch.	°	°	°								°	Inch.		
SCANDINAVIA.	Haparanda ...	29.35	20	NE	2	0	29.42	00	20	?	+	1	NNE	2	0	#	0	28	14	0.04	
	Hernösand ...	29.34	33	NE	2	5	29.45	+ 09	23	22	-	9	Z	0	6	#	5	34	23	0.51	
	Stockholm ...	29.30	33	W	2	0	29.47	00	32	32	-	4	WNW	2	0	#	0	39	20	-	
	Wisby ...	29.39	38	NNW	8	60	29.54	+ 14	38	34	+	1	NNW	6	7	#	60	39	36	-	
	Bedö ...	29.29	39	SW	6	r	29.28	- 02	36	36	+	3	NNW	4	c	2	r	39	32	-	
	Christiansund...	29.38	39	WNW	7	r	29.47	+ 10	41	38	+	5	WNW	7	r	4	r	41	26	0.39	
	Skudesnaes ...	29.65	39	NW	5	c	29.70	+ 17	36	35	+	2	NNE	2	0	3	c	41	32	-	
	Christiania Fjord (Færder)	29.47	39	WNW	4	6	29.59	+ 20	39	35	+	5	WNW	5	6	3	6	39	33	-	
	Skagen (The Scaw)	29.54	41	N	4	6	29.62	+ 27	40	36	+	2	NW	2	6	0	6	41	36	0.04	
	Fanö ...	29.78	41	NW	6	6	29.80	+ 52	41	37	-	6	NW	4	c	#	6	48	39	0.12	
BRITISH ISLANDS.	Sumburgh Head	29.49	36	NNW	2	60	29.73	+ 08	32	32	-	2	NNE	2	0	3	60	38	31	0.24	
	Stornoway ...	29.95	38	N	3	c	29.74	- 18	40	40	+	3	NE	8	r	6	c	41	32	0.42	
	Wick ...	29.88	37	NW	3	0	29.66	- 13	39	38	+	5	NE	6	0	3	crs	40	33	0.95	
	Nairn ...	29.96	37	NW	1	c	29.65	- 26	36	35	+	2	W	1	c	1	crs	41	31	0.31	
	Aberdeen ...	29.99	35	WSW	3	6	29.63	- 25	36	34	+	2	WNW	5	60	4	6, 7, 8	40	32	0.02	
	Leith ...	30.00	37	W	1	6	29.70	- 24	38	36	+	1	WSW	3	6	#	6	45	33	0.06	
	Shields ...	30.05	38	NW	2	60	29.73	- 17	38	36	-	1	SW	4	6	2	60, 7	45	28	-	
	Spurn Head ...	30.03	41	NW	3	c	29.88	+ 04	36	33	-	9	SW	3	6	3	c	46	33	-	
	York ...	30.07	35	N	1	6	29.89	+ 02	31	29	-	11	SSW	1	6	#	6	45	26	-	
	Loughborough	30.09	40	NNE	1	0	29.99	+ 12	22	22	-	24	ESE	1	60	#	0	47	19	0.02	
GERMANY & HOLLAND.	Ardrossan ...	30.06	38	NW	2	6	29.74	- 23	42	40	+	4	NW	4	6	3	6, 9	45	33	0.10	
	Malin Head ...	30.07	43	NNW	3	6	29.80		43	40			NW	7	60	4	6	46	41	0.04	
	Mullaghmore ...																				
	Belmullet ...	30.11	41	ENE	3	60	30.01	- 02	47	42	+	2	SSE	4	0	#	60	48	32	0.01	
	Donaghadee ...	30.10	40	WSW	3	60	29.87	- 11	36	35	-	9	WSW	5	c	3	60	48	33	0.01	
	Liverpool (Bilston)	30.10	40	NNE	1	0	29.91	- 02	38	35	-	4	SSW	2	6	2	0	44	34	-	
	Holyhead ...	30.08	45	ENE	3	60	29.94	00	43	39	-	4	W	2	6	2	60	48	37	-	
	Parsonstown ...	30.10	41	Z	0	c	30.04	+ 04	25	14	-	18	Z	0	6	#	c	41	24	-	
	Valencia ...	30.04	48	ENE	1	adm	30.04	+ 10	44	41	-	8	NE	1	6	2	0	52	41	0.02	
	Roche's Point	30.05	47	E	4	0	30.02	+ 07	40	38	-	8	ENE	2	6	3	0	50	37	-	
FRANCE AND BELGIUM.	Pembroke (St. Ann's Hd.)	30.05	47	NE	4	0	29.97	+ 06	39	39	-	11	E	2	60	2	0	50	39	-	
	Scilly ...	29.95	53	Z	0	0	29.91	- 04	54	53	+	1	N	3	c	3	0	55	50	-	
	Prawle Point ...	29.97	51	NNE	2	0	29.92	- 03	47	47	-	5	NE	2	om	1	adm	55	46	0.12	
	Jersey (St. Aubin's)	29.97	55	Z	0	ogmd	29.91	- 07	52	51	-	3	W	1	0	1	og	55	48	0.05	
	Hurst Castle ...	30.01	49	ENE	5	omr	29.93	+ 01	44	43	-	11	NE	2	omd	2	0	59	42	0.07	
	Dungeness ...	29.96	48	NE	5	r	29.93	+ 07	49	45	-	5	SE	1	c	1	r	59	46	0.03	
	North Foreland	30.00	48	N	4	og	29.92	+ 07	46	43	-	7	NNE	2	0	3	0	56	46	0.02	
	London ...	30.04	47	NNE	3	0	29.95	+ 08	34	36	-	14	ENE	1	og	#	ogd, 60	56	38	0.03	
	Oxford ...	30.07	40	NE	2	0	29.98	+ 13	29	29	-	24	N	1	60	#	r, 0	53	29	0.06	
	Cambridge ...	30.07	41	NW	2	6	29.98	+ 16	25	?	-	28	NW	1	6	#	6	53	24	0.02	
PENINSULA.	Yarmouth ...	30.00	44	NNW	3	c	29.94	+ 16	33	32	-	15	WNW	2	60	3	c	48	30	-	
	Cuxhaven ...	29.78	41	NW	5	0	29.90	+ 40	41	40	-	10	SW	3	c	#	0	51	39	0.12	
	Berlin ...	29.84	43	WNW	3	0	29.97	+ 36	37	36	-	16	W	2	c	#	0	55	36	0.08	
	Wiesbaden ...	*	*	*	*	*	29.97	+ 05	45	43	-	6	Z	0	0	#	#	54	45	-	
	Munich ...	30.02	45	SW	4	0	29.98	- 07	44	44		0	Z	0	m	#	0	50	43	-	
	The Helder ...	30.04	45	WNW	1	6	29.97	+ 29	45	41	-	9	W	1	c	1	6	55	45	-	
	Brussels (3 a.m.)	*	*	*	*	*	29.97	+ 09	38	37	-	13	ENE	L	c	#	0	55	37	0.12	
	Cape Gris Nez	29.95	48	E	6	r	29.90	+ 06	44	42	-	11	SE	2	0	2	r	55	41	0.12	
	Paris ...	29.99	53	SW	2	0	29.92	- 08	48	48	-	3	N	1	0	#	0	57	48	-	
	Brest ...	?	54	NNE	3	60	?	?	51	49	-	6	E	1	c	2	60	63	48	-	
FRANCE AND BELGIUM.	Lorient ...	29.96	55	Z	0	0	29.89	- 11	53	50	+	1	E	4	0	2	0	57	50	-	
	Rochefort ...	29.95	54	E	2	c	29.85	- 16	46	46	-	7	ENE	3	60	#	c	63	43	-	
	Belfort ...																				
	Lyons ...	29.97	50	NNW	?	6	29.94	- 12	47	47	-	8	W	1	60	#	60	61	41	-	
	Nice ...	29.97	58	E	2	c	29.91	- 11	55	53	+	2	E	2	c	2	c	63	53	-	
PENINSULA.	Perpignan ...	29.95	58	NW	1	0	29.87	- 17	52	51	+	6	Z	0	0	#	0	62	46	-	
	Biarritz ...	29.86	61	NE	2	r	29.80	- 11	58	35	+	10	SE	2	0	2	r	68	48	-	
	Corunna ...	*	*	*	*	*	29.73		60	57	+		SSE	3	0	4	*	70	55	0.12	
PENINSULA.	Lisbon ...	29.81	64	SSW	4	60	29.85	- 03	64	62	+	3	SW	4	c	*	60	68	61	0.24	

For Explanation of Columns, see bottom of last page.

† Received too late for insertion in Charts on next page.



# WEATHER CHARTS

for 8 a.m. on Sunday, 5<sup>th</sup> November 1893.

## 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:

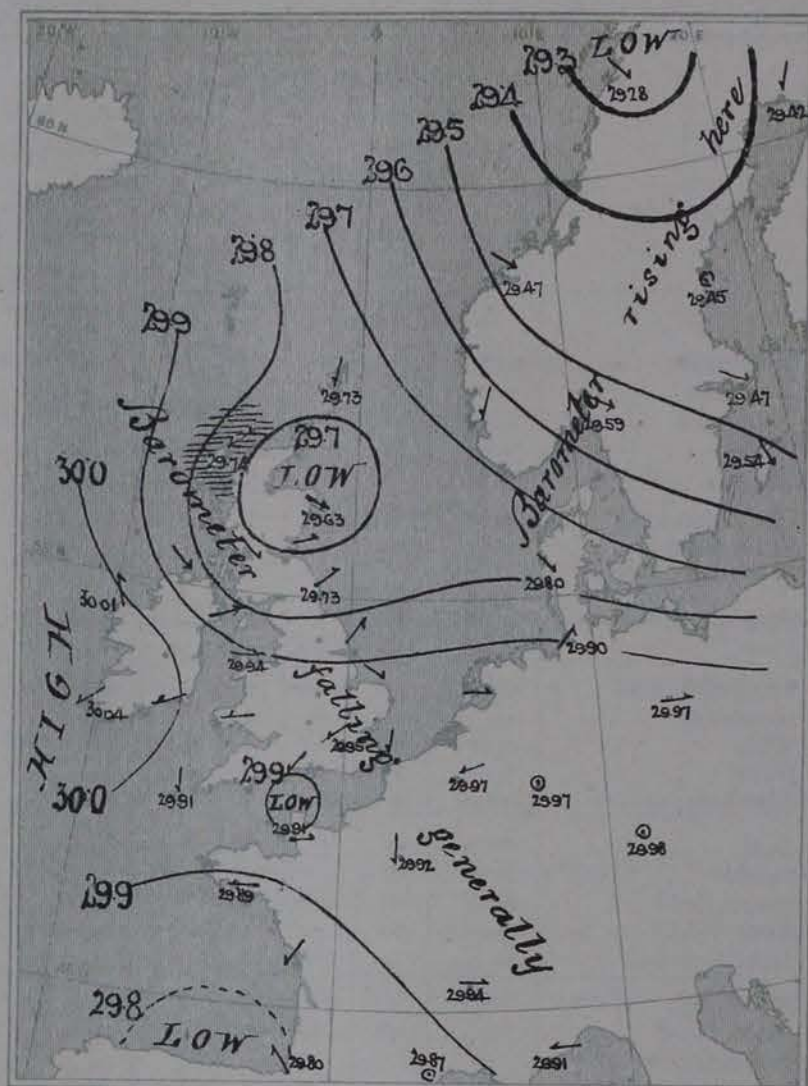
☼ = Rough. ☼ = High.

## MEAN HEIGHT OF THE BAROMETER

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

During the 20 Years 1871—1890.

STATIONS.	MEAN READINGS.
Sumburgh Head	29.683
Stornoway	29.690
Wick	29.722
Nairn	29.738
Aberdeen	29.758
Leith	29.789
Shields	29.813
Spurn Head	29.842
York	29.846
Loughborough	29.877
Ardrossan	29.791
Mullaghmore	29.780
Donaghadee	29.810
Holyhead	29.835
Liverpool	29.851
Parsonstown	29.847
Valencia	29.865
Roche's Point	29.865
Pembroke	29.864
Scilly	29.897
Prawle Point	29.914
Jersey	29.928
Hurst Castle	29.962
Dover	29.893
LONDON	29.898
Oxford	29.896
Cambridge	29.887
Yarmouth	29.865



## 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.

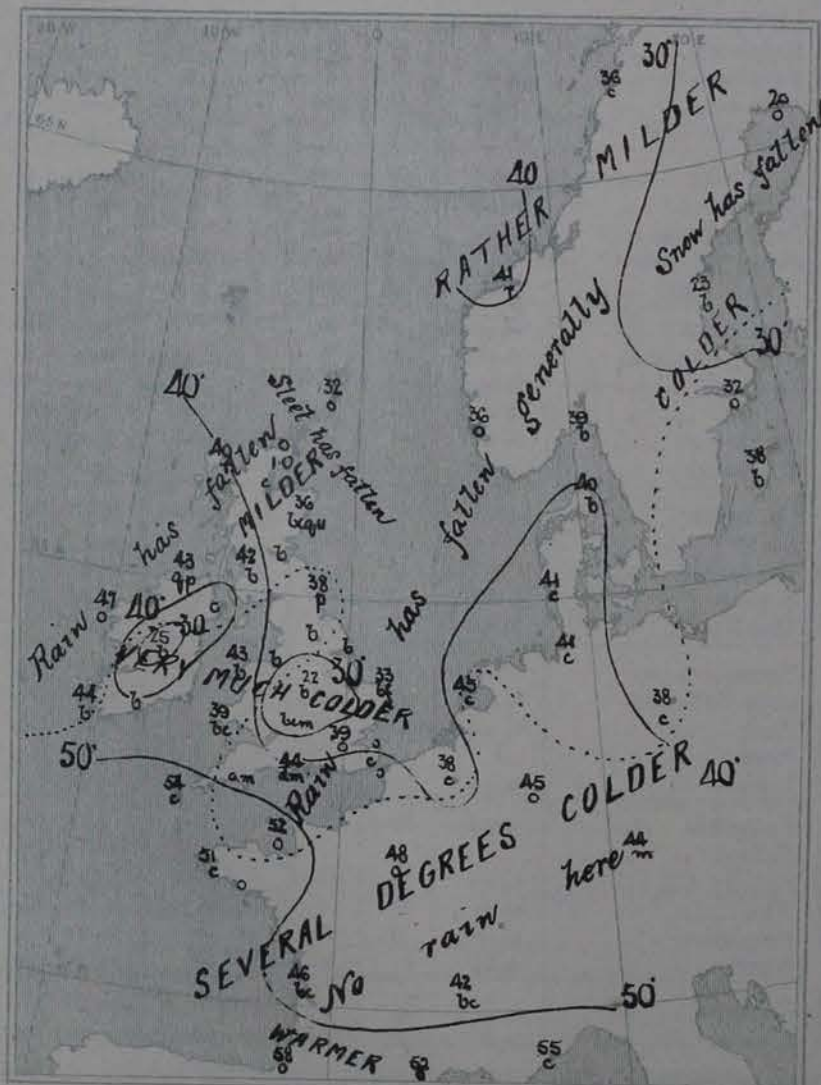
**RAINFALL**—A dotted line separates the districts in which rain has fallen from those where there has been none. Falls of 0.5 in. or more are quoted in figures.

## MEANS OF TEMPERATURE IN SHADE, AND RAINFALL.

(For the month of November.)

STATIONS.	TEMPERATURE.				RAINFALL (Inches.)
	Daily Max.	Daily Min.	at 8 a.m.	at 4 p.m.	
Sumburgh Head	45.0	37.8	42.0	40.3	4.10
Stornoway	46.2	37.0	41.7	40.7	4.79
Wick	46.1	36.1	41.4	39.8	2.93
Nairn	45.3	35.7	39.8	38.2	2.29
Aberdeen	46.2	36.5	40.5	38.7	3.14
Leith	48.1	37.0	41.7	40.0	2.20
Shields	47.8	37.0	42.1	40.5	2.61
Spurn Head	46.8	36.2	43.2	41.9	2.40
York	47.5	36.4	40.6	39.3	2.19
Loughborough	48.0	36.6	40.5	39.3	2.24
Ardrossan	47.8	39.1	43.1	41.3	3.88
Mullaghmore	49.6	41.2	45.1	43.1	4.48
Donaghadee	48.3	39.2	43.2	42.0	3.20
Holyhead	49.7	42.0	45.8	44.0	3.88
Liverpool	47.8	39.6	42.5	40.7	2.96
Parsonstown	49.1	37.1	41.9	40.2	2.83
Valencia	52.3	43.0	47.4	45.5	5.42
Roche's Point	51.1	42.0	46.1	44.5	4.62
Pembroke	50.1	43.8	48.0	45.1	4.04
Scilly	52.4	46.7	50.0	48.0	3.72
Prawle Point	51.1	41.9	46.2	44.7	3.20
Jersey	51.9	44.1	47.7	45.8	4.30
Hurst Castle	50.5	40.6	44.0	44.0	3.01
Dover	49.3	40.8	44.3	42.8	3.48
LONDON	49.3	38.0	42.2	40.8	2.23
Oxford	48.2	37.6	41.2	40.0	2.31
Cambridge	48.6	35.8	40.7	39.9	2.01
Yarmouth	47.5	39.6	43.1	42.0	3.06

NOTE.—The Temperature means are for the 20 years 1871-90, the Rainfall means are mainly those for the 25 years 1866-90.





# GENERAL SITUATION AT 8 A.M.

## PRESSURE

Highest, 30.0 in: and more over the western half of Ireland and neighbouring parts of the Atlantic, as well as over Central Germany and Hungary and exceeding 29.9 in: almost all over Ireland, England and Central Europe.  
 Lowest, 29.3 in: and less in a depression over the northern half of Scandinavia; 29.7 in: and less in another <sup>one</sup> Scotland and moving southwards; 29.8 in: and less, over the north of Spain.  
 Gradients somewhat steep off our northwest coasts, moderate to slight elsewhere. Barometer rising again on our northwest coasts and in the northwest of Norway, falling elsewhere, most off our northeast coasts.

## TEMPERATURE

Highest, 64° at Lisbon, 58° at Biarritz, 56° to 52° on the south coast of France, 54° at Bally, 52° at Jersey.  
 Lowest, 22° at Loughborough, 25° at Cambridge, 29° at Oxford, 31° at York.

The minima during the night have been as low as 19° in the shade at Loughborough, 24° at Cambridge, and 26° at York.

## WIND

Light and very variable over France, England, and the greater part of Ireland, but E<sup>1</sup> over the Bay of Biscay, SW to SE over Spain.  
 Strong to a gale from NE. in the north of Scotland, and from NW. at Malin H<sup>1</sup>, fresh NW. at Aberdeen. Moderate SW at Shields, strong NW in the north of Norway.  
 It blew hard in squalls at Wick and Anderson during the night.

## WEATHER

Very variable. Dull over France, gloomy and wet at the Channel stations, clear and bright over Central England and the south of Ireland, very unsettled in the north, with cold rain and snowsqualls in several places.  
 Nearly an inch of rain and wet snow has fallen at Wick.

## SEA

Rough at Norway, rising in the north generally, slight or smooth in the south.

## PROBABLE CHANGES IN SYSTEM NOW PREVALENT

The new depression has appeared very suddenly.

## FORECASTS

For the 24 hours ending at NOON on 6<sup>th</sup> November, 1893.

### 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
- 10 IRELAND SOUTH

### WARNINGS

None issued.

At 9.50 am to districts 0, 1, 6, and 9.  
 "Hoist North Cone"

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.	F.	WEA.	SEA.		BAR.	THER.		WIND.	F.	WEA.	SEA.
		Dry.	Wet.	Dir.						Dry.	Wet.	Dir.			
Skudesnaes ...	29.60	41	36	NN	7	chg	3	Valencia ...	30.00	49	49	NE	3	mod	3
Sumburgh Head	29.76	37	35	NNW	4	c	4	Scilly ...	29.96	54	54	WNW	3	f	3
Stornoway ...	30.01	40	39	N	3	c	3	Jersey ...	29.99	55	54	SW	3	oam	3
Aberdeen ...	29.96	40	36	WNW	5	bcg	3	Hurst Castle ...	29.95	53	52	NE	2	oam	3
Shields ...	29.74	44	38	NN	3	bc	2	Dungeness ...	29.91	50	49	NE	4	cg	3
Ardrossan ...	29.05	44	40	NN	3	b	2	North Foreland ...	29.94	48	45	N	4	o	5
Malin Head ...								London ...	29.98	47	46	NE	3	ogd	*
Mullaghmore ...								Yarmouth ...	29.95	48	44	NNW	4	bc	4
Belmullet ...	30.09	47	42	E	3	o	#	Rochefort ...	29.98	63	60	E	1	c	*
Holyhead ...	30.06	46	41	ENE	4	c	4								

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

Weather fine at several of our northern stations, but dull in the extreme north of Scotland, with snow at Sumburgh Hd., dull over the more southern parts of the United Kingdom, with showers in places. Fog reported at the mouth of the Channel and also in the west of France. Cloudy at most of the Continental stations, with rain in Denmark and North Germany, and with snow at Haparanda, Herisund, and Skudenes. Fine in Italy, Austria, and the extreme south of Russia. A little rain falling later over the south of England generally, and large quantities reported at night over the north of Scotland.

Temperature fallen in all but the central part of Europe. Morning readings highest 63° at Malta, 68° at Oren, and 67° at Algiers; above 60° at several of the Mediterranean stations, and above 50° in the south of England. Lowest (1) 19° at Haparanda, 22° at Uleaborg, and 23° at Archangel; (2) 34° at Sumburgh Hd., Wick, Nairn and Aberdeen, below 40° over the northern parts of our Islands generally. Daily maxima below 45° at most of our northern stations, but ranging between 55° and 59° in the extreme south, exceeding 50° in the west and south of France and exceeding 70° over the southern parts of Spain and Italy. Sharp frost occurring over the central part of England, Ireland at night.

Wind N (NW to NE) over all the more northern parts of our Islands, but W or SW in the south of England, as well as over the Netherlands, Denmark, and Poland; light from the E or NE over the northern parts of Scandinavia and Russia. E over Spain and the west and south of France, variable in Italy, SE in Algeria. Subsequently shifting to the NE in the south of England and to the NW in Germany. NE gale springing up at Niteroi.

Barometer highest 30.1 in: and upwards over southern Europe, 30.0 in: and upwards over all the more southern countries, as well as in the north of Ireland. Lowest 29.3 in: and less in three depressions; — one lying over the south of Scandinavia, another over the north of Russia, and the third, (a well defined system) over Denmark. Last mentioned disturbance subsequently moving eastwards to the Baltic Provinces; new depression appearing over the north of Scotland at night.

## SUMMARY OF CHANGES IN THE WEATHER OVER THE BRITISH ISLES AND THEIR NEIGHBOURHOOD FROM THE 29<sup>TH</sup> OCT<sup>R</sup> TO THE 4<sup>TH</sup> NOV<sup>R</sup> 1933.

The variations in the type of pressure distribution, the size and intensity of the systems, the range of temperatures, and the changes in the wind and weather generally during this week, were considerable.

Early in the week the eastern portion of an anticyclone was spreading over us from the Atlantic, and under its influence N winds became general, accompanied by showers of snow sleet or hail at first, and then by a fall of temperature, so decided that on Tuesday morning the minima in the shade were as low as 25° at Banonaton and Loughborough, 27° at York, 28° at Luton, 29° at Oxford and Dungeness, and 31° in London.

The anticyclone soon gave way, and moved quickly to the southward, while large depressions advanced in an easterly direction from the Atlantic to Scandinavia, and together with their secondaries spread all over our Islands. Temperature consequently rose, the wind became W to S, and occasionally blew strongly in places, and rain fell generally — but only in the form of showers at the southern stations as a whole.

At the close of the week, however, the Atlantic anticyclone was again advancing over us, and as the wind veered northwards the thermometer was going down fast. A small depression advancing over Scotland was causing gales and snow squalls at our northern stations.

### EXPLANATION OF THE 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.

N.B.—The morning observations are made at 8 a.m. in the British Islands, Germany, Sweden, and Norway, 7 a.m. in France, Spain and Portugal, and 9 a.m. in Belgium. The evening observations are made at 6 p.m. in the British Islands (as a rule), and France, 8 p.m. at Oxford, in Sweden, Norway, and Germany, and 9 p.m. in Belgium. The time at each Station is the Standard Time of its Country.

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TERMS: For Daily Weather Report, forwarded by Book Post, £1 0 0 per annum.

„ Weekly „ „ „ £1 10 0 „



# DAILY WEATHER REPORT

for 8 a.m. on *Monday, 6<sup>th</sup> November, 1893*

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

STATIONS.		YESTERDAY EVENING. (See note at bottom of last page.)					THIS MORNING. (See note at bottom of last page.)										PAST 24 HOURS.			
		Barom.	Temp.	Wind.		Weather.	Barometer.		Shade Temp.			Wind.		Sea (0 to 9).	Shade Temp.		Amount of Rainfall.			
Reading at 32° F. and Sea Level.	Dry Bulb.	Direc.	Force (0 to 12).	Reading at 32° F. and Sea Level.	Change since Yester- day Morn.	Dry Bulb.	Wet Bulb.	Change in dry since Yesterday.	Direc.	Force (0 to 12).	Weather.	Weather.	Max.	Min.						
SCANDINAVIA.																				
Haparanda ...	29.59	23	Z	0	0	29.79	16	16		N	4	0	#	0	27	216	-			
Hernösand ...	29.55	21	Z	0	6	29.72	28	27		NW	2	5	#	6	32	19	-			
Stockholm ...	29.63	32	Z	0	6	29.70	+23	27	26	-5	Z	0	#	6	39	2	-			
Wisby ...	29.75	40	SW	4	6c	29.73	+19	36	35	-2	SW	4	#	6c	45	36	-			
Bodö ...	29.60	31	N	6	C	29.88	+60	25	22	-11	E	2	1	C	37	21	-			
Christiansund...	29.76	39	N	6	T	29.99	+52	36	35	-5	N	6	1	5	40	34	0.16			
Skudesnaes ...	29.78	34	EHE	1	6	29.95	+25	34	32	-2	NW	4	6	2	39	32	-			
Christiania Fjord (Færd)	29.74	40	NW	2	6	29.83	+24	34	30	-5	NW	4	6	1	39	34	-			
Skagen (The Scaw)	29.69	39	N	2	6c	29.76	+14	39	34	-1	EHE	2	6	0	43	36	0.04			
Fanö ...	29.64	37	SSE	4	0	29.77	-03	36	35	-5	NNE	3	C	#	43	36	0.39			
Sumburgh Head	29.92	34	NNE	3	C	30.17	+44	36	35	+4	NNE	4	0	5	38	31	0.12			
Stornoway ...	30.06	35	N	7	Sp	30.30	+56	32	32	-8	N	3	5	4	40	30	0.06			
Wick ...	29.92	36	NE	6	0	30.17	+51	39	38	0	NE	6	0	4	40	32	0.10			
Nairn ...	29.98	36	NNE	4	0	30.24	+59	37	35	+1	NW	1	CTS	2	42	33	0.11			
Aberdeen ...	29.89	34	NW	5	6c	30.18	+55	36	34	0	NW	3	6	4	41	34	0.24			
Leith ...	29.91	37	NW	2	6	30.21	+51	37	34	-1	NW	2	6	#	45	35	0.02			
Shields ...	29.74	43	N	7	0	30.09	+36	40	39	+2	NE	1	OTS	5	45	34	0.27			
Spurn Head ...	29.71	41	NW	6	C	29.98	+10	45	41	+4	NNE	5	C	5	46	34	0.10			
York ...	29.77	39	NW	1	C	30.09	+20	38	37	+7	N	1	6c	#	45	30	0.03			
Loughborough	29.83	39	NW	2	6c	30.06	-03	31	30	+9	NW	1	OTS	#	47	22	-			
Ardrossan ...	29.95	37	N	1	6	30.26	+52	37	34	-5	N	1	6	0	45	32	0.01			
Malin Head ...	30.01	42	N	6	bhp	30.25	+45	42	38	-1	NNE	5	CP	3	46	39	-			
Mullaghmore ...																				
Belmullet ...	30.08	45	N	5	0	30.29	+28	39	37	-8	EHE	2	6	#	49	37	0.03			
Donaghadee ...	29.97	44	N	6	6c	30.23	+36	44	40	+8	NE	6	C	4	48	34	0.02			
Liverpool (Bldston)	29.88	41	N	3	6	30.13	+22	36	34	-2	N	2	6c	2	47	34	0.02			
Holyhead ...	29.84	46	NW	5	CGP	30.12	+18	44	41	+1	NE	6	CGP	5	46	42	0.01			
Parsonstown ...	30.02	40	NW	1	6	30.25	+21	27	26	+2	Z	0	6	#	47	24	-			
Valencia ...	30.04	45	NNE	2	6c	30.25	+21	37	35	-7	NE	4	6	3	50	34	-			
Roche's Point	29.99	45	NNE	4	6	30.20	+18	35	33	-5	NNE	4	6	3	50	34	-			
Pembroke (St. Ann's Hd.)	29.90	45	N	4	6c	30.11	+14	39	38	0	NE	3	6	2	48	39	-			
Scilly ...	29.89	50	NNE	4	C	30.03	+12	45	41	-4	EHE	5	C	3	55	44	-			
Prawle Point ...	29.90	39	NE	1	C	30.05	+13	35	34	-12	NNE	3	6	2	47	33	-			
Jersey (St. Aubin's)	29.82	53	NW	3	OTM	29.99	+08	47	42	-5	NE	4	6cm	3	59	45	0.04			
Hurst Castle ...	29.86	40	NNE	2	6	30.02	+09	34	33	-10	NNE	2	6	2	47	32	0.03			
Dungeness ...	29.80	42	NNE	4	C	29.92	-01	34	33	-15	N	3	6	3	51	31	0.01			
North Foreland	29.81	41	N	2	6c	29.90	-02	41	39	-5	N	5	6c	5	47	34	-			
London ...	29.84	38	NW	1	6m	29.99	+04	34	33	-5	NW	1	6c	#	43	32	-			
Oxford ...	29.87	39	N	1	6c	30.04	+06	32	30	+3	N	2	6	#	47	29	-			
Cambridge ...	29.87	39	NW	1	6	29.99	+01	35	34	+10	NW	5	6	#	47	24	-			
Yarmouth ...	29.76	40	N	8	6	29.89	-05	45	43	+12	NNE	5	CGP	5	45	31	0.09			
Cuxhaven ...	29.82	42	SW	2	6c	?	?	42	40	+1	NW	3	C	#	43	41	-			
Berlin ...	29.84	39	SE	2	C	29.78	-19	35	34	-2	NW	2	6	#	45	34	0.04			
Wiesbaden ...	?	?	?	?	?	29.81	-16	45	42	0	Z	0	0	#	48	41	0.04			
Munich ...	29.86	46	Z	0	6	29.82	-16	45	45	+1	E	1	T	#	52	41	0.08			
The Helder ...	29.73	45	NW	4	6c	29.86	-11	43	41	-2	NNE	2	6	2	48	41	0.04			
Brussels (8 a.m.)	?	?	?	?	?	29.87	-10	38	37	0	NW	2	C	#	47	35	-			
Cape Gris Nez	29.78	44	S	2	T	29.87	-03	41	39	-3	N	5	0	5	50	39	-			
Paris ...	29.82	50	NNE	1	0	29.89	-03	38	37	-10	N	2	6	#	56	37	0.04			
Brest ...	?	53	ESE	1	0	?	?	45	45	-6	NE	3	C	3	57	37	-			
Lorient ...	29.83	54	NNE	3	0	29.91	+02	48	44	-5	NE	5	0	2	57	46	-			
Rochefort ...	29.80	54	EHE	3	0	29.83	-02	48	47	+2	E	4	0	#	55	45	-			
Belfort ...	?	52	N	3	0	?	?	48	48	+4	N	3	5	#	55	43	1.38			
Lyons ...	29.84	51	ESE	1	0	29.82	-12	51	50	+9	N	1	T	#	56	?	0.20			
Nice ...	29.85	57	ESE	1	0	29.79	-12	55	53	0	Z	0	C	2	63	54	-			
Perpignan ...	29.82	58	Z	0	0	29.80	-07	50	50	-2	S	1	0	#	64	49	-			
Biarritz ...	29.73	63	E	3	T	29.80	-03	61	57	+3	NW	3	0	2	73	58	0.12			
Corunna ...	?	?	?	?	?	?	?	?	?	?	?	?	?	?	?	?	?			
Lisbon ...	29.91	63	SW	2	6	29.86	+01	61	60	-3	ESE	3	0	#	66	59	?			

For Explanation of Columns, see bottom of last page.

† Received too late for insertion in Charts on next page.



# WEATHER CHARTS

for 8 a.m. on Monday, 6<sup>th</sup> Nov. 1893.

## 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:

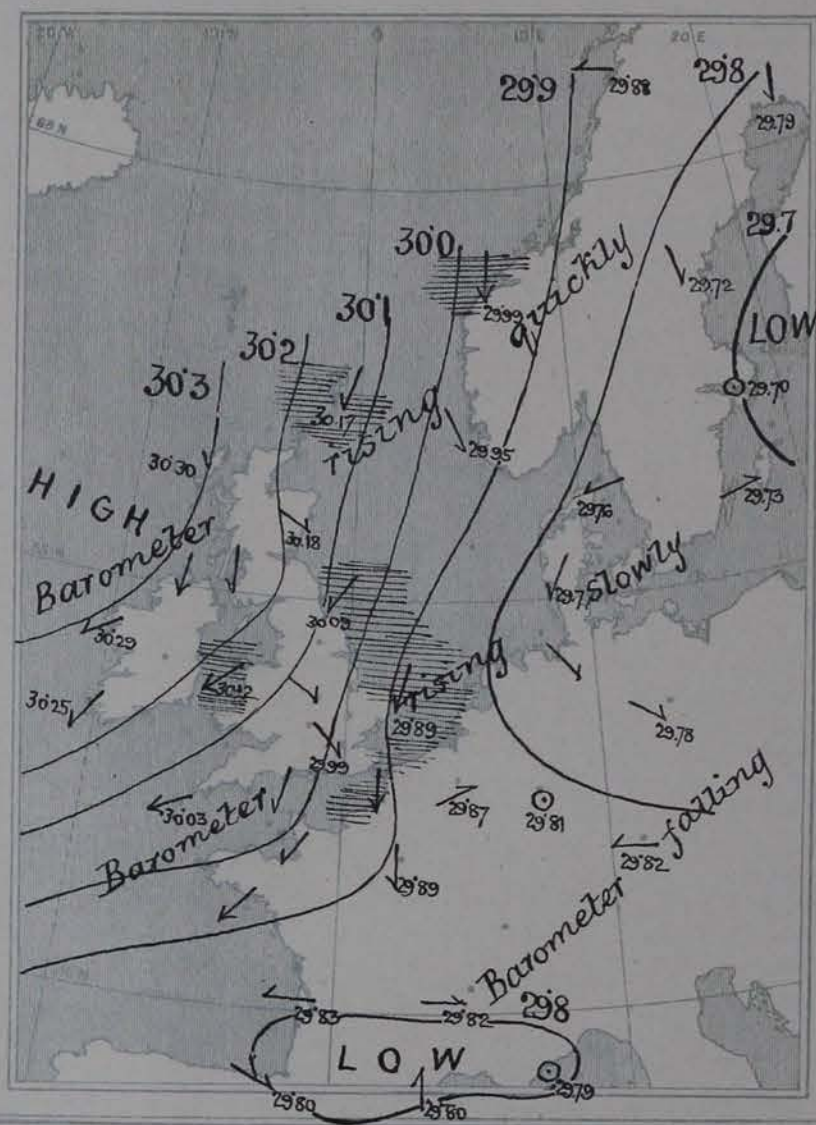
— = Rough. — = High.

### MEAN HEIGHT OF THE BAROMETER

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

During the 29 Years 1871–1890.

STATIONS.	MEAN READINGS.
Sunbury Head	29.683
Stornoway	29.699
Wick	29.722
Nairn	29.738
Aberdeen	29.758
Leith	29.789
Shields	29.813
Spurn Head	29.842
York	29.846
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Jersey	29.928
Hurst Castle	29.902
Dover	29.893
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Oxford	29.890
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Yarmouth	29.865



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**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 November.)

STATIONS.	TEMPERATURE.				RAINFALL. (Inches.)
	Daily Max.	Daily Min.	Dry. at 8 a.m.	Wet.	
Sunbury Head	45.6	37.8	42.0	40.3	4.18
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Wick	46.1	36.1	41.4	39.8	2.93
Nairn	45.3	35.7	39.8	38.2	2.29
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Loughborough	48.0	36.6	40.5	39.3	2.24
Ardrossan	47.8	39.1	43.1	41.3	3.88
Mullaghmore	49.6	41.2	45.1	43.1	4.48
Donaghadee	48.3	39.2	43.2	42.0	3.20
Holyhead	49.7	42.9	45.8	44.0	3.88
Liverpool	47.8	39.6	42.5	40.7	2.96
Parsonstown	49.1	37.1	41.9	39.2	2.83
Valencia	52.3	43.0	47.4	45.5	5.42
Roche's Point	51.1	42.0	46.1	44.5	4.62
Pembroke	50.1	43.8	46.9	45.1	4.04
Scilly	52.4	46.7	50.0	48.0	3.72
Prawle Point	51.1	41.9	46.2	44.7	3.20
Jersey	51.9	44.1	47.7	45.8	4.30
Hurst Castle	50.5	40.6	44.9	44.0	3.01
Dover	49.3	40.6	44.3	42.8	3.48
LONDON	49.3	38.0	42.2	40.8	2.23
Oxford	48.2	37.6	41.2	40.0	2.31
Cambridge	48.6	35.8	40.7	39.9	2.01
Yarmouth	47.5	39.0	43.1	42.0	3.06

NOTE.—The Temperature means are for the 20 years 1871–90, the Rainfall means are mainly those for the 25 years 1866–90.





# GENERAL SITUATION AT 8 A.M.

## PRESSURE

Highest, 30.3 in: and more off our extreme northwestern coasts.  
 Lowest, 29.7 in: and less, over Finland; 29.8 in: over North Germany, and also over the extreme southwest and south of France.  
 Gradients moderate for N<sup>ly</sup> winds all over our Islands.  
 Barometer still rising at all our stations.

## TEMPERATURE

Highest, 61° at Lisbon and Biarritz; above 50° over the Riviera, 47° at Jersey.  
 Lowest, Below 40° all over our Islands; 27° at Parnassus, 31° at Loughborough, 32° at Oxford; 16° at Haparanda, 25° at Bodo; 26° at Stockholm.  
 The values are here low over our Midland Counties, but much lower in the south than those of yesterday (Sunday) morning.

## WIND

N<sup>ly</sup> to NE<sup>ly</sup> over the United Kingdom generally — moderate to fresh in force as a whole, but strong at Wick and over the Irish Sea.  
 The gales experienced in Scotland yesterday have quite subsided.

## WEATHER

Fine and bright over the greater part of Ireland, England, and the east of Scotland, but slight snow showers are falling on several parts of our north and northeast coasts and in Scandinavia.  
 Snow showers prevailed pretty generally at our northern stations yesterday, slight rain in the south and southeast. A heavy fall is reported from Belfast.

## SEA

Rather rough on exposed parts of our west, north, and east coasts, and on the French side of the Channel.

## PROBABLE CHANGES IN SYSTEM NOW PREVALENT

A continuation of cold NE<sup>ly</sup> and N<sup>ly</sup> breezes is probable.

# FORECASTS

For the 24 hours ending at NOON on 7<sup>th</sup> Nov<sup>r</sup>. 1893.

## DISTRICTS.

## FORECASTS.

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

N<sup>ly</sup> and NE<sup>ly</sup> breezes, moderate; slight snow showers at times.

Same as No 5.

NW<sup>ly</sup> and N<sup>ly</sup> breezes; slight snow showers at times.

## DISTRICTS.

## FORECASTS.

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

Same as No 0

NE<sup>ly</sup> breezes, fresh; cold, slight cold showers, bright intervals.

## WARNINGS

The NORTH CONE was hoisted yesterday morning in Scotland and the north of Ireland, but has been lowered again this morning.

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. Direc.	F.	WEA.	SEA.		BAR.	THER.		WIND. Direc.	F.	WEA.	SEA.
		Dry.	Wet.							Dry.	Wet.				
Skudesnaes ...	29.83	40	36	N	2	c	2	Valencia ...							
Sumburgh Head ...								Scilly ...							
Sternoway ...	29.99	37	36	N	7	o	6	Jersey ...	29.85	57	52+	W	3	bc	3
Aberdeen ...								Hurst Castle ...							
Shields ...								Dungeness ...	29.81	51	47	SW	2	c	1
Ardrossan ...								North Foreland ...	29.82	44	40	N	2	o	2
Malin Head ...	29.92	45	41	N	7	bc	4	London ...							
Mullaghmore ...								Yarmouth ...							
Behnullet ...	30.02	48	44	NNE	4	c	5	Rocheport ...	29.81	54	53	E.N.E	3	o	*
Holyhead ...	29.86	46	42	NW	5	bc q	5								

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

*Weather* fine in all but the northern and extreme southern parts of the United Kingdom; rain and sleet falling in the north of Scotland, and misty drizzle reported at some of the Channel Stations. Cloudy or overcast in most of the Continental countries, with rain at Christiansund and Moscow, and with snow at Hango; fine in north Germany, and also over northern Italy and the south of Spain. Showers of cold rain, sleet or snow falling later in all the more northern parts of our Islands; heavy rain reported at Belfast and Lisbon.

*Temperature* fallen rapidly over the central parts of England and Ireland, and also over Germany and the Netherlands, risen in the south of Russia, changed irregularly elsewhere. Morning readings highest, 69° at Malta, 67° at Brar, and 66° at La Caille and Spox; above 60° at several of the Mediterranean and Adriatic Stations as well as on the Portuguese coasts. Lowest (1) 20° at Haparanda, 23° at Archangel, and 24° at Kaspis; (2) 22° at Loughborough, and 25° at Cambridge and Parsonstown; below the freezing point over the central parts of England and Ireland generally. Daily maxima below 50° on all but our extreme south and southwest coasts, and very little above 40° in the north of Scotland. Frost occurring in many parts of our Islands at night.

*Wind* showing a distinct cyclonic circulation over the northern parts of our Islands, with a gale from the NE<sup>wd</sup> in the Hebrides. Light from the NE<sup>wd</sup> on our south and southwest coasts, and from the E<sup>wd</sup> in the west and south of France. W<sup>ly</sup> or NW<sup>ly</sup> over Scandinavia, Denmark, North Germany and the Baltic, with a gale at Memel; light from the SW<sup>wd</sup> over the central and southern parts of Russia. Variable over Italy, Spain and Algeria. Strong N<sup>ly</sup> winds setting in later over all the more northern parts of our Islands, with a gale in the east of Scotland.

*Barometer* Highest 30.0 ins. and upwards over the west and south of Ireland, and also over the south of Italy. Lowest 29.1 ins. and less in a well marked depression over central Russia; 29.7 ins. and less in another disturbance over Scotland, with its centre near the Moray Firth; 29.8 ins. and less in a shallow system over the north of Spain. Scotch depression subsequently moving away over the North Sea, and barometer rising briskly on our northern coasts.

*The Summary of the Weather for last week  
appears in Sunday's Report.*

### EXPLANATION OF THE 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.

N.B.—The morning observations are made at 8 a.m. in the British Islands, Germany, Sweden, and Norway. 7 a.m. in France, Spain and Portugal, and 9 a.m. in Belgium. The evening observations are made at 6 p.m. in the British Islands (as a rule), and France, 8 p.m. at Oxford, in Sweden, Norway, and Germany, and 9 p.m. in Belgium. The time at each Station is the Standard Time of its Country.

Subscriptions both for the Daily and Weekly Weather Reports may be paid, in advance, to the Meteorological Office.

TERMS: For Daily Weather Report, forwarded by Book Post, £1 0 0 per annum.

„ Weekly „ „ „ £1 10 0 „



# DAILY WEATHER REPORT

for 8 a.m. on **TUESDAY, 7<sup>TH</sup> NOVEMBER, 1893**

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

STATIONS.		YESTERDAY EVENING. (See note at bottom of last page.)					THIS MORNING. (See note at bottom of last page.)										PAST 24 HOURS.			
		BAROM.	TRMP.	WIND.		Weather.	BAROMETER.		SHADE TEMP.			WIND.		Sea (0 to 9).	SHADE TEMP.			Amount of Rainfall.		
				Reading at 32° F. and Sea Level.	Dry Bulb.		Dir.	Force (0 to 12).	Reading at 32° F. and Sea Level.	Change since Yester- day Morn.	Dry Bulb.	Wet Bulb.	Change in dry since Yesterday.		Dir.	Force (0 to 12).	Weather.		Max.	Min.
		Inch.	°				Inch.												Inch.	
SCANDINAVIA.	Haparanda ...	30.04	2	N	2	b	30.12	+0.08	3	3	-1.0	2	0	b	*	b	34	3	—	
	Hernösand ...	30.04	19	NNW	2	b	30.21	+0.17	15	14	-1.0	N	2	b	*	b	30	15	—	
	Stockholm ...	29.89	21	N	2	o	30.11	+0.22	27	25	0	NNW	2	b	*	o	34	28	—	
	Wisby ...	29.82	28	N	4	c	30.01	+0.19	35	34	-1	E	4	c	*	c	41	34	0.04	
	Bodö ...	30.06	28	E	2	o	29.97	+0.09	35	33	+1.0	S	4	o	2	o	2	23	—	
	Christiansund...	30.25	37	N	2	bc	30.22	+0.03	38	34	-1	SW	6	r	5	bc	37	34	0.00	
	Skudesnaes ...	30.21	35	N	4	b	30.33	+0.12	30	28	-4	ENE	1	b	1	b	40	28	—	
	Christiania Fjord (Færdler)	30.04	37	N	6	b	30.28	+0.24	32	29	0	NNE	5	b	2	b	37	34	—	
	Skagen (The Scaw)	30.00	36	NE	2	b	30.20	+0.20	32	31	-7	NE	2	bc	0	b	41	30	—	
	Fanö ...	30.05	34	NNE	1	b	30.16	+0.11	30	29	-6	NNE	2	b	*	b	45	30	—	
BRITISH ISLANDS.	Sumburgh Head	30.32	36	NNE	2	c	30.42	+0.10	37	34	+1	NNW	1	o	2	c	39	34	—	
	Stornoway ...	30.41	35	NE	4	r	30.52	+0.11	38	35	+3	NE	2	c	2	o. r	40	30	0.04	
	Wick ...	30.46	29	NE	2	o	30.42	+0.06	38	37	-1	N	2	o	2	o	42	36	0.02	
	Nairn ...	30.36	29	NNW	2	bc	30.48	+0.12	39	37	+2	NNE	2	bc	2	bc	40	35	0.02	
	Aberdeen ...	30.31	28	NW	2	bc	30.45	+0.14	37	36	+1	NW	2	c	4	q.p.c. bc	41	35	0.11	
	Leith ...	30.31	28	N	2	bc	30.44	+0.13	39	37	+2	N	2	c	*	bc	47	34	—	
	Shields ...	30.22	28	NNW	2	f	30.34	+0.12	38	37	+2	N	4	pr.hq	6	c.p. f	47	37	0.25	
	Spurn Head ...	30.14	44	NNW	4	c.v	30.26	+0.12	44	40	-1	NNE	4	bc	4	c.v. f	47	38	0.02	
	York ...	30.21	29	N	2	b	30.34	+0.13	36	35	-2	N	1	bc	*	b	47	32	0.02	
	Loughborough	30.20	29	N	2	b	30.31	+0.11	39	38	-2	2	0	bc	*	b	47	38	—	
BRITISH ISLANDS.	Ardrossan ...	30.33	29	NW	1	b	30.46	+0.13	37	35	0	NNE	1	bc	1	b	45	33	—	
	Malin Head ...	30.35	42	NNE	4	c	30.47	+0.12	41	37	-1	E	2	b	2	o. c	48	41	—	
	Mullaghmore ...	30.37	42	NNE	2	c	30.48	+0.11	38	37	-1	NE	2	b	*	b.p. c	45	32	0.02	
	Belmullet ...	30.34	41	NNE	4	b	30.45	+0.11	42	39	-2	NE	5	b	0	b	47	41	—	
	Donaghadee ...	30.33	42	NNE	4	b	30.46	+0.13	37	35	0	NNE	1	bc	2	b	45	33	—	
	Liverpool (Bidston)	30.27	39	N	2	bc	30.39	+0.12	43	40	-1	N	2	b	2	bc	44	33	—	
	Holyhead ...	30.25	43	NE	4	b	30.37	+0.12	43	40	-1	ENE	4	b	4	b	47	42	—	
	Parsonstown ...	30.33	36	NE	1	b	30.43	+0.10	34	32	-2	2	0	b	*	b	45	32	—	
	Valencia ...	30.29	41	ENE	4	b	30.38	+0.09	38	34	+1	NE	1	b	1	b	44	34	—	
	Roche's Point	30.24	42	NNE	2	b	30.36	+0.12	35	33	0	NNE	2	b	2	b	45	34	—	
BRITISH ISLANDS.	Pembroke (St. Ann's Hd.)	30.20	43	NE	4	b	30.30	+0.10	39	37	0	NE	4	b	2	b	45	36	—	
	Scilly ...	30.10	45	ENE	5	bc	30.21	+0.11	44	40	-1	ENE	5	b	2	c. bc	47	39	—	
	Prawle Point ...	30.09	41	ENE	4	b	30.23	+0.14	34	34	-1	NE	5	bc	4	b. o	47	34	—	
	Jersey (St. Aubin's)	30.05	46	NNE	4	bc	30.16	+0.11	46	42	-1	NE	5	bc	4	bc. l. f	50	41	0.24	
	Nurst Castle ...	30.12	41	NNE	2	m	30.22	+0.10	37	36	+2	NNE	2	bc	2	bc. m	47	34	—	
	Dungeness ...	30.03	45	NE	2	c	30.15	+0.12	35	35	+1	NNE	4	c	4	o.p. c. f	46	34	0.19	
	North Foreland	30.04	45	NNE	7	bc. f	30.17	+0.13	45	42	+4	NE	6	bc. f	6	bc. f. l	49	38	0.11	
	London ...	30.12	43	NE	2	b	30.24	+0.12	35	34	+1	NNE	2	bc	*	bc. m. w	47	34	—	
	Oxford ...	30.21	36	N	2	b	30.29	+0.08	36	32	+1	N	2	b	*	f. o. b	47	31	0.01	
	Cambridge ...	30.15	38	NNE	4	b	30.27	+0.12	36	33	-2	NNW	2	b	*	b	49	30	—	
GERMANY & HOLLAND.	Yarmouth ...	30.07	45	NNE	5	cq	30.19	+0.12	44	40	-1	NE	4	bc	4	cq. c. q	47	39	0.05	
	Cuxhaven ...	29.91	25	NNE	5	b	30.15	?	35	33	-7	NNE	5	b	*	b	?	33	—	
	Berlin ...	29.89	40	NNW	2	o	30.00	+0.11	35	33	0	NW	4	c	*	o	?	34	—	
	Wiesbaden ...	?	?	?	?	*	30.07	+0.06	37	35	-2	2	0	b	*	*	46	32	—	
	Munich ...	29.82	45	N	2	o	29.93	+0.11	35	33	-10	NW	2	s	*	o	48	34	0.05	
	The Helder ...	30.07	44	N	4	b	?	?	37	35	-6	?	2	c	2	b	48	36	0.04	
	Brussels (9 a.m.)	?	?	?	?	*	30.17	+0.10	31	31	-7	NNE	2	f	*	b	48	30	—	
	Cape Gris Nez	29.99	43	E	5	r	30.06	+0.07	41	38	0	E	4	r	5	r	46	36	0.37	
	Paris ...	29.98	42	NNE	2	o	30.10	+0.12	32	32	-6	NNE	1	b	*	o	47	31	0.04	
	Brest ...	?	45	E	2	c	?	?	41	39	-4	E	4	b	2	c	52	34	—	
FRANCE AND BELGIUM.	Lorient ...	29.99	46	NE	5	b	30.05	+0.06	41	39	-7	ENE	3	b	2	b	53	39	—	
	Rocheport ...	29.92	47	ENE	5	o	29.93	+0.01	38	37	-10	ENE	5	c	*	o	53	36	—	
	Belfort ...	?	?	?	?	*	?	?	?	?	?	?	?	?	*	?	?	?	?	
	Lyons ...	?	?	?	?	*	?	?	?	?	?	?	?	?	*	?	?	?	?	
	Nice ...	29.70	35	SW	1	b	29.70	-0.09	51	50	-4	E	2	bc	1	b	64	50	—	
	Perpignan ...	29.79	61	2	0	o	29.78	-0.01	56	53	+6	2	0	o	*	o	68	50	—	
	Biarritz ...	29.82	61	NW	2	o	29.78	-0.04	51	49	-10	ENE	2	o	2	o	62	48	—	
	Corunna ...	?	?	?	?	*	?	?	?	?	?	?	?	?	*	?	?	?	?	
	Lisbon ...	29.71	61	SE	2	o	29.66	-0.05	58	56	-2	NNW	2	c	*	o	64	57	0.51	
	PENIN- SULA.																			

For Explanation of Columns, see bottom of last page.

† Received too late for insertion in Charts on next page.



# WEATHER CHARTS

for 8 a.m. on Tuesday 7<sup>th</sup> Nov<sup>r</sup> 1893.

## 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

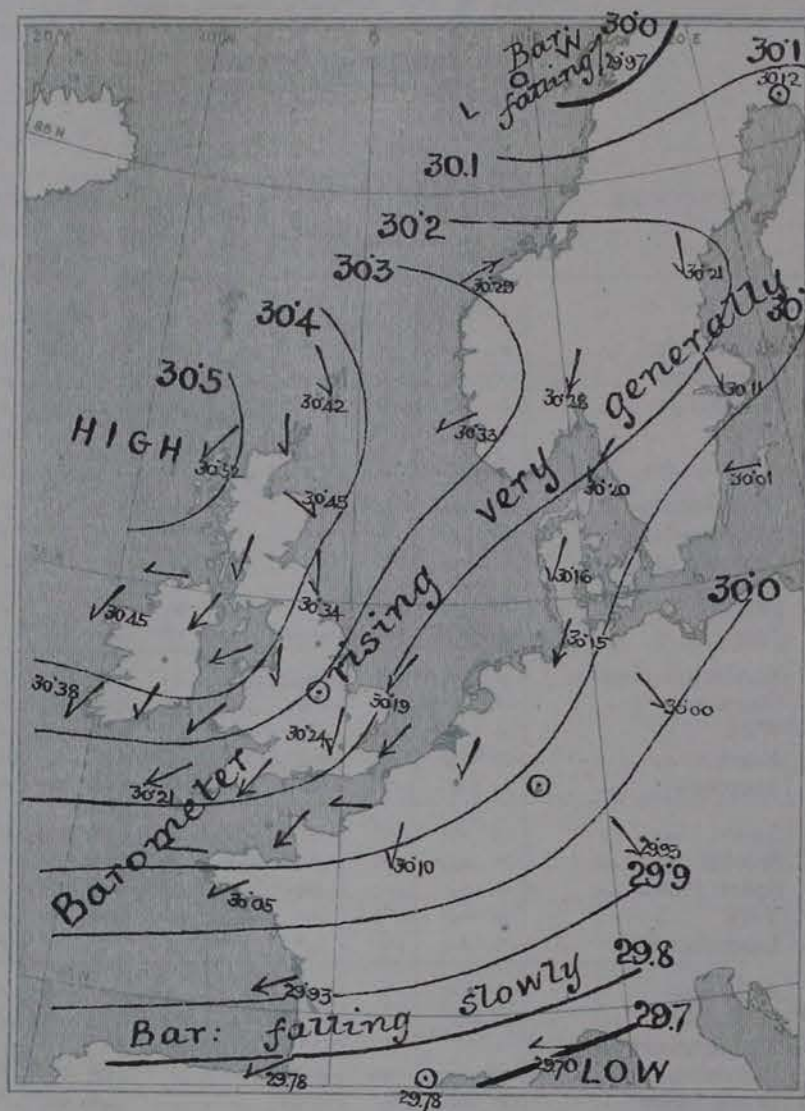
at 8.0 a.m. for the month of November.

During the 20 Years 1871—1890.

#### STATIONS.

#### MEAN READINGS.

STATIONS.	MEAN READINGS.
Sumburgh Head	29.683
Stornoway	29.689
Wick	29.722
Nairn	29.738
Aberdeen	29.758
Leith	29.789
Shields	29.813
Spurn Head	29.842
York	29.846
Loughborough	29.877
Ardrossan	29.791
Mullaghmore	29.780
Donaghadee	29.810
Holyhead	29.835
Liverpool	29.851
Parsonstown	29.847
Valencia	29.865
Roche's Point	29.865
Pembroke	29.864
Scilly	29.897
Prawle Point	29.914
Jersey	29.928
Hurst Castle	29.902
Dover	29.893
LONDON	29.898
Oxford	29.896
Cambridge	29.887
Yarmouth	29.865



## 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 0.1 in. or more are quoted in figures.

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

(For the month of November.)

#### STATIONS.

#### TEMPERATURE.

#### RAINFALL.

STATIONS.	TEMPERATURE.				RAINFALL. (Inches.)
	Daily Max.	Daily Min.	Dry. at 8 a.m.	Wet.	
Sumburgh Head	45.6	37.8	42.0	40.3	4.16
Stornoway	46.2	37.0	41.7	40.7	4.70
Wick	46.1	36.1	41.4	39.8	2.93
Nairn	45.8	35.7	39.8	38.2	2.20
Aberdeen	46.2	36.5	40.5	38.7	3.14
Leith	48.1	37.0	41.7	40.0	2.20
Shields	47.3	37.9	42.1	40.5	2.61
Spurn Head	46.8	40.2	43.2	41.9	2.40
York	47.5	36.4	40.6	39.3	2.19
Loughborough	48.0	36.6	40.5	39.3	2.24
Ardrossan	47.8	39.1	43.1	41.3	3.88
Mullaghmore	40.6	41.2	45.1	43.1	4.48
Donaghadee	48.3	39.2	43.2	42.0	3.20
Holyhead	49.7	42.9	45.8	44.0	3.88
Liverpool	47.8	39.6	42.5	40.7	2.90
Parsonstown	49.1	37.1	41.9	40.2	2.83
Valencia	52.3	43.0	47.4	45.5	5.42
Roche's Point	51.1	42.0	46.1	44.5	4.62
Pembroke	50.1	43.8	46.9	45.1	4.04
Scilly	52.4	46.7	50.0	48.0	3.72
Prawle Point	51.1	41.9	46.2	44.7	3.20
Jersey	51.9	44.1	47.7	45.8	4.30
Hurst Castle	50.5	40.6	44.9	44.0	3.01
Dover	49.3	40.6	44.3	42.8	3.48
LONDON	49.3	38.0	42.2	40.8	2.23
Oxford	48.2	37.6	41.2	40.0	2.31
Cambridge	48.6	35.8	40.7	39.9	2.01
Yarmouth	47.5	39.0	43.1	42.0	3.96

NOTE.—The Temperature means are for the 20 years 1871-90, the Rainfall means are mainly those for the 25 years 1866-90.





# GENERAL SITUATION AT 8 A.M.

## PRESSURE

Highest, 30.5 in: and upwards in the northwest of Scotland; 30.2 in: and upwards, in an anticyclone covering nearly the whole of our Islands and the North Sea, with the southern parts of Scandinavia.

Lowest, 29.7 in: and less, over the Gulf of Genoa; 30.0 in: and less, in a depression off the northwest of Norway.

Gradients moderate over France and the south of our Islands, slight elsewhere. Barometer rising generally, but falling in the northwest of Norway and also in the south of Sweden.

## TEMPERATURE

Highest, 58° at Dublin, 56° at Birkenhead, 51° at Aberdeen and Barmouth, 46° at Jersey, and 45° at the North Foreland.

Lowest, (1) 3° at Haparanda, 15° at Helsingfors, and 27° at Stockholm; (2) 24° at Carronston, 23° at Loughborough, and 33° at Oxford and Cambridge.

Sharp frost was again experienced last night over the central part of England and Ireland; at Loughborough the thermometer on the grass fell to 20°.

## WIND

N or NE over our Islands, Denmark, the Netherlands, and the south of Norway; light or moderate in force generally, but fresh at the Channel stations.

Moderate to fresh from the E in the west and south of France.

N in Sweden and NW in Germany, but S or SW in the west of Norway.

## WEATHER

Fine and bright over the greater part of Western Europe, but dull in the extreme north of Scotland and the west of Norway, with rain at Christiansund.

Dull also over the southern part of France and Germany, with snow at Munich.

Shower of snow or sleet fell yesterday at our northern and eastern stations, and rain in the Channel Islands and north of France. Thunder and lightning occurred at the North Foreland at 1 p.m. yesterday, and lightning was seen in the evening or night both there and at Jersey.

## SEA

Rough at Shields and the North Foreland, and rather rough at Christiansund and Cape Fisker, but moderate to smooth elsewhere.

## PROBABLE CHANGES IN SYSTEM NOW PREVALENT

No important change in the weather is indicated at present.

## FORECASTS

For the 24 hours ending at NOON on 8<sup>th</sup> November, 1893.

DISTRICTS.	FORECASTS.	DISTRICTS.	FORECASTS.
0 SCOTLAND NORTH	N <sup>ly</sup> and NW <sup>ly</sup> winds, light; fair generally.	6 SCOTLAND WEST	Same as Nos 3 to 5
1 SCOTLAND EAST		7 ENGLAND N.W.	
2 ENGLAND N.E.	N <sup>ly</sup> winds, light; fair generally.	8 ENGLAND S.W.	NE <sup>ly</sup> and E <sup>ly</sup> winds, fresh; fair generally.
3 ENGLAND EAST	NE <sup>ly</sup> winds, light or moderate; fair generally.	9 IRELAND NORTH	Same as No 3 to 5
4 MIDLAND COUNTIES		10 IRELAND SOUTH	
5 ENGLAND SOUTH		WARNINGS	None issued.

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

The North Cone, point upwards (^), 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. Direc.	F.	WEA.	SEA.		BAR.	THER.		WIND. Direc.	F.	WEA.	SEA.
		Dry.	Wet.							Dry.	Wet.				
Skudesnaes ...	30.06	40	35	NNW	4	b	1	Valencia ...	30.26	43	40	NE	5	b	4
Sumburgh Head ...	30.26	37	34	NNE	3	c	5	Scilly ...	30.07	47	39	NE	3	c	8
Stornoway ...	30.35	37	39	N	3	o	4	Jersey ...	30.02	49	42	NNE	4	bc	2
Aberdeen ...	30.57	40	37	NNW	5	c	5	Hurst Castle ...	30.05	44	42	NNE	2	b	2
Shields ...	30.10	44	41	N	5	c	5	Dungeness ...	29.94	46	43	NNE	5	og	4
Ardrossan ...	30.27	43	39	NW	2	b	1	North Foreland ...	29.96	46	43	N	6	bc	6
Malin Head ...	30.32	42	40	N	3	o	2	London (Windsor St.)	30.04	46	42	NNE	4	bc	*
Mullaghmore ...	30.33	43	40	NE	2	bp	*	Yarmouth ...	30.00	47	44	NNE	6	cgy	5
Belmullet ...	30.33	43	40	NE	2	bp	*	Rochefort ...	29.89	51	49	ESE	4	o	*
Holyhead ...	30.21	46	42	NE	4	b	4								

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

Weather in morning fine and dry over the greater part of our Islands and the north of France, as well as on the Spanish and Portuguese coasts, and at many of the Danish and North German stations; cloudy or overcast elsewhere, with snow showers at several of our northern stations, rain at Christianund, as well as over the southern parts of France and Germany, and many parts of Italy and Sicily. Cold showers in the north and east of our Islands later, in Germany and the northeast of France; amounts considerable at Cape Gris Nez, Munich, Jersey, and Shields. Thunder and lightning reported at Jersey and the North Foreland.

Temperature fallen decidedly over Western Europe, risen at some eastern stations. Morning readings highest 71° at Malta, and above 60° at most of the extreme southern stations, much lower elsewhere. Lowest, 16° at Kapsaranda, 18° at Arkangel, and below 30° over northern Europe generally; 27° at Rossmore, 31° at Loughborough, 32° at Oxford, 34° in London, 35° at Berlin, 38° at Paris. Tendency to reach 50° over Great Britain or Ireland during the day, but touching 59° at Lorient, and 63° to 68° in the south of France; succeeding night cold over the British Isles.

Wind N<sup>o</sup> to NE<sup>o</sup> over the whole of the British Isles, the North Sea, and English Channel, and blowing strongly at many of the coast stations. Light from the SW<sup>o</sup> at most of the German stations, and from the S<sup>o</sup> or SE<sup>o</sup> over the western parts of Russia. Variable in Spain and the south of France; SE<sup>o</sup> or S<sup>o</sup> over Italy and Algeria. Subsequently increasing to a moderate or fresh gale from the N<sup>o</sup> on some part of our east and southeast coast, but falling moderate in the west and north of our Islands.

Barometer highest 30.3 in: and upwards, in an anticyclone lying off our extreme northwest coasts; 30.1 in: and upwards, in another system over the Black Sea and south of Russia. Lowest 29.7 in: and less, in two depressions lying respectively over the Baltic and Gulf of Bothnia; 29.8 in: and less, in an elongated area stretching across the south of France and N. Italy. Anticyclone in northwest subsequently spreading eastwards, and barometer rising in all parts of Western Europe.

### EXPLANATION OF THE 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.  
N.B.—The morning observations are made at 8 a.m. in the British Islands, Germany, Sweden, and Norway, 7 a.m. in France, Spain and Portugal, and 9 a.m. in Belgium. The evening observations are made at 6 p.m. in the British Islands (as a rule), and France, 8 p.m. at Oxford, in Sweden, Norway, and Germany, and 9 p.m. in Belgium. The time at each Station is the Standard Time of its Country.

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" Weekly " " " £1 10 0 "



# DAILY WEATHER REPORT

for 8 a.m. on WEDNESDAY 8<sup>TH</sup> NOVEMBER 1893

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

STATIONS.	YESTERDAY EVENING. (See note at bottom of last page.)					THIS MORNING. (See note at bottom of last page.)										PAST 24 HOURS.			
	BAROM.	TEMP.	WIND.			BAROMETER.	SHADE TEMP.			WIND.						SHADE TEMP.		AMOUNT of Rainfall.	
	Reading at 55° F. and Sea Level.	Dry Bulb.	Dirac.	Force (0 to 12).	Weather.	Reading at 55° F. and Sea Level.	Change since Yesterday Morn.	Dry Bulb.	Wet Bulb.	Change in dry since Yesterday.	Dirac.	Force (0 to 12).	Weather.	Sea (0 to 10).		Max.	Min.		
	Ina.	°				Ina.		°	°	°						°	°	Ina.	
SCANDINAVIA.	Haparanda ...	25.84	25	SW	2	C	25.87	+25	26	24	ENE	1	bc	2	C	26	1	—	
	Hernösand ...	25.89	22	2	0	C	25.90	+21	25	24	W	2	C	2	C	26	1	—	
	Stockholm ...	25.25	23	2	0	C	25.14	+23	26	25	W	2	C	2	C	26	21	—	
	Widby ...	25.22	23	E	2	bc	25.22	+22	23	21	WNW	2	C	2	C	27	20	0.04	
	Bodö ...	29.26	40	W	4	C	29.01	+04	29	25	WNW	2	0	1	C	27	24	0.24	
	Christiansund...	25.18	41	SW	3	7	25.16	+23	26	24	WNW	2	0	2	7	26	21	0.42	
	Skudesnaes ...	25.27	36	2	0	0	25.27	+22	26	24	NE	2	C	1	2.0	26	20	—	
	Christiania Fjord (Færdar)	25.29	27	WNW	2	C	25.29	+23	22	20	2	0	C	1	C	27	20	—	
	Sragen (The Scaw)	25.20	28	NE	1	C	25.26	+06	21	21	W	1	bc	0	C	26	27	—	
	Fano ...	25.27	29	NNE	2	C	25.27	+12	29	29	E	1	C	2	C	29	27	—	
BRITISH ISLANDS.	Sumburgh Head	25.27	42	2	0	0	25.26	0.0	20	27	NNE	2	C	2	C.0	44	27	0.02	
	Stornoway ...	25.27	40	N	2	C	25.29	+23	41	40	N	2	C	2	C.0	42	28	—	
	Wick ...	25.27	29	NE	2	C	25.22	0.0	22	41	N	2	C	2	C	42	28	0.04	
	Nairn ...	25.20	28	WNW	1	C	25.27	0.0	20	20	WNW	1	0	1	C	40	26	—	
	Aberdeen ...	25.29	28	WNW	2	0	25.24	-01	20	29	WNW	2	bc	2	C.0.2	42	26	0.04	
	Leith ...	25.27	40	N	2	0	25.26	+02	29	27	W	1	om	2	0	42	26	—	
	Shields ...	25.27	40	N	4	0p	25.25	+05	29	27	WNW	2	C	2	0.0	46	27	0.04	
	Spurn Head ...	25.22	40	N	4	0p	25.25	+07	29	24	WNW	2	bc	4	0.0.2	46	27	0.02	
	York ...	25.27	29	N	1	C	25.20	+06	25	24	N	1	C	2	C	46	22	—	
	Loughborough	25.25	27	N	1	C	25.28	+07	25	25	WNW	1	om	2	C	47	29	—	
GERMANY & HOLLAND.	Ardrossan ...	25.28	26	NE	2	C	25.27	+01	27	26	NE	1	om	1	C	42	24	—	
	Malin Head ...	25.20	41	E	2	0p	25.20	+03	29	27	NE	2	0	1	C.0p	44	41	—	
	Mullaghmore ...	25.28	28	ENE	1	C	25.25	+07	27	25	E	2	C	2	C	45	22	—	
	Belmullet ...	25.29	44	NE	4	C	25.29	+04	29	40	NE	4	C	2	C	45	29	—	
	Donaghadee ...	25.28	26	NE	2	C	25.27	+01	27	26	NE	1	om	1	C	42	24	—	
	Liverpool (Bldston)	25.21	40	NNE	2	C	25.24	+03	29	24	NNE	1	bc	2	C	42	24	—	
	Holyhead ...	25.20	45	ENE	4	C	25.22	+02	29	21	ENE	2	C	2	bc. C	46	22	0.01	
	Parsonstown ...	25.24	27	NE	1	C	25.23	+07	21	20	NW	1	bc	2	C	42	23	—	
	Valencia ...	25.22	41	NE	2	C	25.26	+04	22	40	ENE	2	bc	2	C	46	27	—	
	Roche's Point	25.28	40	NE	2	C	25.28	+07	29	21	NE	2	C	2	C	47	25	—	
FRANCE AND BELGIUM.	Pembroke (St. Ann's Hd.)	25.22	42	ENE	2	C	25.26	+06	29	28	NE	2	bc	2	C	45	27	—	
	Scilly ...	25.21	46	NE	5	C	25.29	+08	29	20	ENE	6	C	4	C	47	41	—	
	Prawle Point ...	25.25	42	NNE	5	C	25.21	+05	27	26	NNE	5	bc	4	C	42	27	—	
	Jersey (St. Aubin's)	25.16	45	NE	5	bc. 0p	25.21	+05	24	40	E	5	C	4	bc. 0p	49	29	0.05	
	Hurst Castle ...	25.25	42	NE	4	bc	25.24	+05	28	26	NNE	2	bc	1	C. 0p	46	24	—	
	Dungeness ...	25.20	27	NNE	2	C	25.24	+09	40	28	E	5	0.0.2	4	bc	46	24	0.15	
	North Foreland	25.24	42	NE	5	bc. 0p	25.26	+09	42	41	E	6	0.0.2	6	bc. 0p	47	26	0.19	
	London ...	25.28	29	NNE	2	C	25.29	+05	28	25	NE	2	0	2	bc. 0p	46	23	0.01	
	Oxford ...	25.28	25	N	2	C	25.25	+04	26	25	N	2	C	2	C	46	22	—	
	Cambridge ...	25.22	23	NNE	1	C	25.22	+05	26	25	WNW	2	C	2	C	47	21	0.04	
PENINSULA.	Yarmouth ...	25.24	42	NE	6	C. 0.2p	25.27	+03	42	40	ENE	5	C. 0.2p	4	C. 0.2p	44	28	0.10	
	Cuxhaven ...	25.27	24	NE	5	C	25.21	+16	2	2	NE	2	C	2	C	26	24	—	
	Berlin ...	25.13	32	NW	1	C	25.17	+17	22	21	WNW	2	C	2	C	29	27	—	
	Wiesbaden ...	25.01	23	2	0	0	25.15	+08	22	29	NNE	2	C	2	C	41	28	—	
	Munich ...	25.01	23	2	0	0	29.99	+06	28	28	NE	5	0	2	C	26	28	0.20	
	The Helder ...	25.22	40	ENE	2	C	25.24	2	22	22	2	1	C	2	C	41	23	0.04	
	Brussels (9 a.m.)	25.15	41	E	2	0	25.27	+10	27	27	ENE	2	C	2	C	40	26	—	
	Cape Gris Nez	25.15	41	E	2	0	25.19	+13	24	23	ENE	2	C	2	C	45	24	—	
	Paris ...	25.13	27	N	2	C	25.13	+02	29	27	NE	2	C	2	C	45	28	—	
	Brest ...	25.05	42	ENE	2	C	25.12	+02	27	26	E	2	C	2	C	5	22	—	
FRANCE AND BELGIUM.	Lorient ...	25.05	45	NE	6	C	25.13	+02	26	22	NE	5	C	2	C	32	24	—	
	Rochefort ...	29.92	44	ENE	6	C	29.95	+02	28	21	ENE	6	C	2	C	30	20	—	
	Belfort ...	29.91	47	ENE	4	C	29.96	+05	22	20	NE	2	C	2	C	42	29	—	
	Lyons ...	29.91	41	WNW	2	0	29.86	+05	20	24	WNW	2	0	2	C	42	20	—	
	Nice ...	29.81	27	SE	1	C	29.83	+17	22	21	E	2	C	2	C	62	21	0.04	
	Perpignan ...	29.71	26	E	2	C	29.68	+15	22	24	W	1	C	2	C	62	24	0.20	
	Biarritz ...	29.69	40	E	2	C	29.77	+01	41	29	ENE	2	0	2	C	32	29	0.03	
	Corunna ...	29.72	27	W	4	C	29.69	+03	23	26	N	2	C	2	C	46	27	0.04	
	Lisbon ...	29.72	27	W	4	C	29.69	+03	23	26	N	2	C	2	C	46	27	0.04	

For Explanation of Columns, see bottom of last page.

† Received too late for insertion in Charts on next page.



# WEATHER CHARTS

for 8 a.m. on Wednesday 8<sup>th</sup> Nov<sup>r</sup> 1893.

## 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:

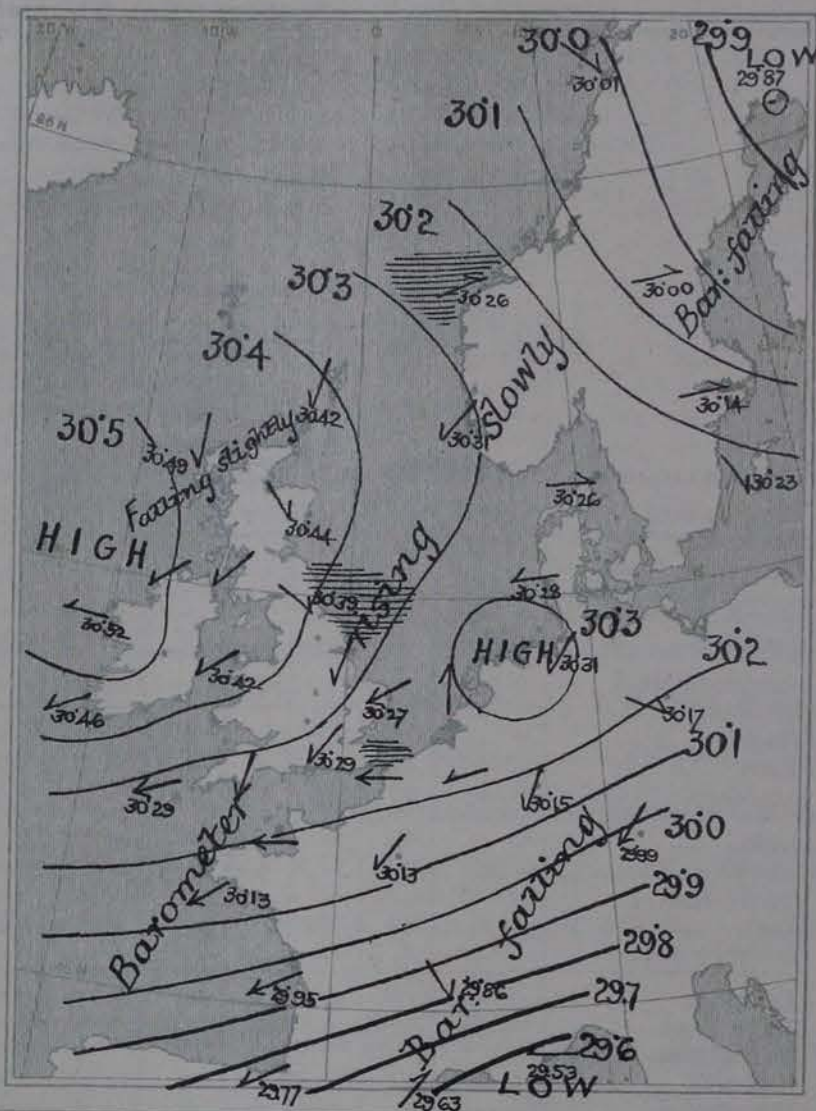
— Rough. — High.

### MEAN HEIGHT OF THE BAROMETER

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

During the 20 Years 1871—1890.

STATIONS.	MEAN READINGS.
Sumburgh Head	29.683
Stornoway	29.699
Wick	29.722
Nairn	29.738
Aberdeen	29.758
Leith	29.789
Shields	29.813
Spurn Head	29.842
York	29.846
Loughborough	29.877
Ardrossan	29.791
Mullaghmore	29.780
Donaghadee	29.810
Holyhead	29.835
Liverpool	29.851
Parsonstown	29.847
Valencia	29.865
Roche's Point	29.865
Pembroke	29.864
Scilly	29.897
Prawle Point	29.914
Jersey	29.928
Hurst Castle	29.902
Dover	29.893
LONDON	29.898
Oxford	29.896
Cambridge	29.887
Yarmouth	29.865



## 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.

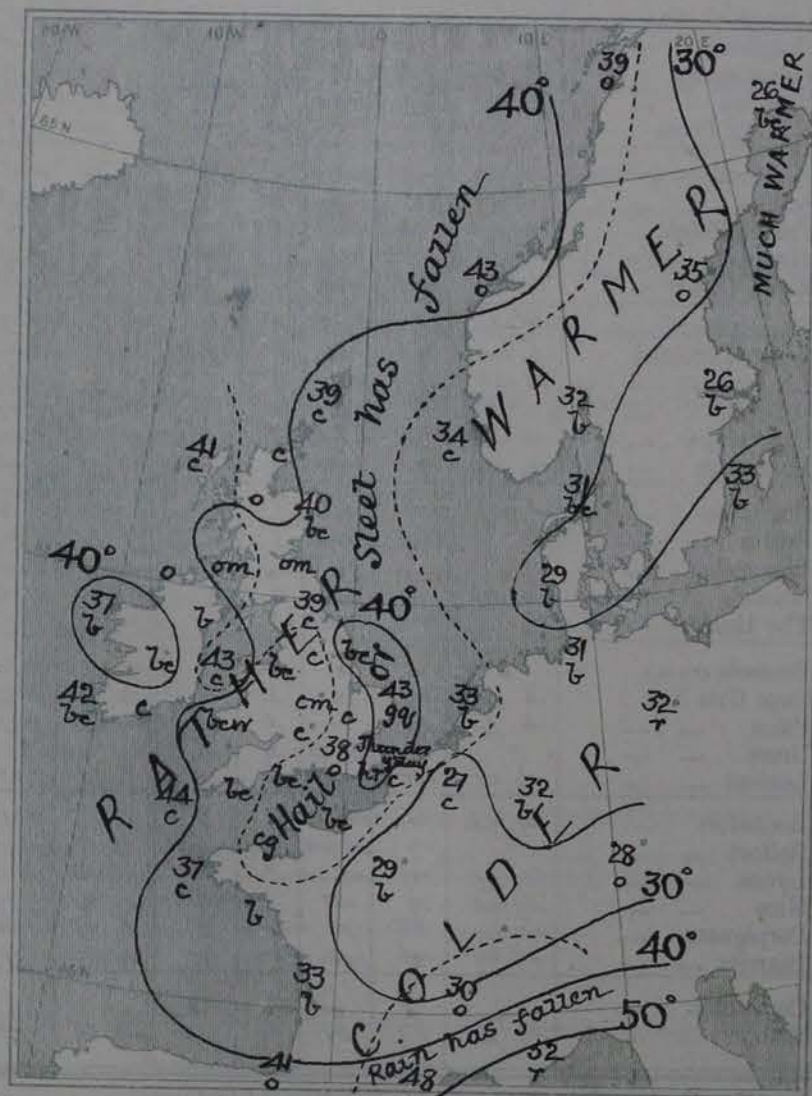
**RAINFALL**—A dotted line separates the districts in which rain has fallen from those where there has been none. Falls of 0.5 in. or more are quoted in figures.

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

(For the month of November.)

STATIONS.	TEMPERATURE.				RAINFALL. (Inches.)
	Daily Max.	Daily Min.	at 8 a.m.		
			Dry.	Wet.	
Sumburgh Head.....	45.6	37.8	42.0	40.3	4.16
Stornoway.....	46.2	37.0	41.7	40.7	4.70
Wick.....	46.1	36.1	41.4	39.8	2.03
Nairn.....	45.3	35.7	39.8	38.2	2.29
Aberdeen.....	46.2	36.5	40.5	38.7	3.14
Leith.....	48.1	37.0	41.7	40.0	2.20
Shields.....	47.3	37.9	42.1	40.5	2.61
Spurn Head.....	46.8	40.2	43.2	41.9	2.40
York.....	47.5	36.4	40.6	39.3	2.19
Loughborough.....	48.0	36.6	40.5	39.3	2.24
Ardrossan.....	47.8	39.1	43.1	41.3	3.88
Mullaghmore.....	49.6	41.2	45.1	43.1	4.48
Donaghadee.....	48.3	39.2	43.2	42.0	3.20
Holyhead.....	49.7	42.0	45.8	44.0	3.88
Liverpool.....	47.8	39.0	42.5	40.7	2.96
Parsonstown.....	49.1	37.1	41.9	40.2	2.83
Valencia.....	52.3	43.0	47.4	45.5	5.42
Roche's Point.....	51.1	42.0	46.1	44.5	4.02
Pembroke.....	50.1	43.8	46.9	45.1	4.04
Scilly.....	52.4	46.7	50.0	48.0	3.72
Prawle Point.....	51.1	41.9	46.2	44.7	3.20
Jersey.....	51.9	44.1	47.7	45.8	4.30
Hurst Castle.....	50.5	40.6	44.9	44.0	3.01
Dover.....	49.3	40.6	44.3	42.8	3.48
LONDON.....	49.3	38.0	42.2	40.8	2.23
Oxford.....	48.2	37.6	41.2	40.0	2.31
Cambridge.....	48.6	35.8	40.7	39.9	2.01
Yarmouth.....	47.5	39.0	43.1	42.0	3.06

NOTE.—The Temperature means are for the 20 years 1871-90, the Rainfall means are mainly those for the 25 years 1866-90.





# GENERAL SITUATION AT 8 A.M.

## PRESSURE

Highest, 30.5 ins: and upwards, over the northern parts of Ireland; 30.3 ins: and upwards over nearly the whole of our Islands and the North Sea.  
Lowest, 29.6 ins: and less, in a depression lying over the extreme south of France.

Gradients rather steep over France and South Germany, but slight elsewhere.

Barometer falling slightly on our northeast coasts, and more decidedly in Sweden and the south of France, but rising elsewhere.

## TEMPERATURE

Highest, (1) 52° at Nice and 48° at Perpignan; (2) 44° at Scilly and Jersey, and 43° on several parts of the English and Irish coasts.

Lowest, (1) 26° at Haparanda at Stockholm; (2) 27° at Brussels, 28° at Munich, and 29° at Paris; (3) 31° at Barronston.

Frost occurred last night in many parts of Ireland and England, the lowest shade temperature being 29° at Loughborough.

## WIND

Light from the N<sup>W</sup> or W<sup>W</sup> on our north and northeast coasts.

Moderate to strong from the NE<sup>W</sup> over the east and south of our Islands and the greater part of France.

W<sup>W</sup> or NW<sup>W</sup> at most of the Scandinavian stations; variable over Denmark and the Netherlands.

## WEATHER

Fine over the greater part of the United Kingdom, but dull and misty in the south of Scotland, and showery with hail on the Kentish coast.

Fine in Denmark, North Germany, the Netherlands, and the North of France; cloudy in other parts of the Continent, with rain at Berlin.

Smart showers of hail or rain were experienced yesterday on our east and southeast coasts, with thunder at the North of Ireland.

## SEA

Rough at the North of Ireland, and rather rough at Shields and Christiansund, but moderate or slight elsewhere.

## PROBABLE CHANGES IN SYSTEM NOW PREVALENT

No important change in the weather is indicated at present.

## FORECASTS

For the 24 hours ending at NOON on 9<sup>th</sup> Nov 1893.

### DISTRICTS.

### FORECASTS.

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

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

NE<sup>W</sup> winds, moderate or fresh; changeable, some cold showers.

### DISTRICTS.

### FORECASTS.

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

NE<sup>W</sup> winds, light; fair generally.

NE<sup>W</sup> winds, fresh; fair generally.

Same as Nos 6 and 7.

### WARNINGS

None issued.

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



# YESTERDAY'S 2 P.M. REPORTS.

	BAR.	THER.		WIND.	F.	WEA.	SEA.		BAR.	THER.		WIND.	F.	WEA.	SEA.
		Dry.	Wet.	Dir.						Dry.	Wet.	Dir.			
Skudesnæs ...	30.07	47	44	NNE	2	c	2	Valencia ...	30.07	46	43	NE	4	b	4
Samburgh Head ...	30.29	42	41	NNW	1	c	2	Scilly ...	30.24	46	42	ENE	5	b	4
Stornoway ...	30.54	42	41	N	0	0	2	Jersey ...	30.14	49	48	NE	5	bc	4
Aberdeen ...	30.44	40	38	NW	2	c	4	Hurst Castle ...	30.23	45	42	NNE	5	b	2
Edinb'g ...	30.29	40	40	NNE	4	bc	6	Dungeness ...	30.11	46	40	ENE	5	bc	5
Ardrrossan ...	30.46	40	40	NNE	1	bc	1	North Foreland ...	30.23	40	41	E	4	bc	5
Malin Head ...	30.50	44	40	NE	2	bc	1	London ...	30.25	45	40	NNE	5	bc	*
Mullaghmore ...								Yarmouth ...	30.28	45	40	NE	4	bc	4
Belmullet ...	30.43	45	40	ENE	5	b	*	Rochefort ...	29.92	48	44	E	6	b	*
Holyhead ...	30.29	45	42	ENE	4	bc	4								

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

Weather fine and bright over the greater part of northwestern Europe, but dull in the extreme north of Scotland and the west of Norway, with rain at Christiania. Dull in most of the eastern, central, and southern countries, with snow at St. Petersburg, Leningrad and Munich, and with rain at Madrid. Fine in Algeria and southern Italy. Smart showers of rain or hail occurring during day on our east and southeast coasts, with thunder at the North Foreland. Considerable quantities of snow falling in Norway and also in the south of France.

Temperature risen decidedly in Russia and slightly in the north of our Islands, but fallen elsewhere. Morning readings highest 68° at Palermo and Malta, 67° at Cagliari and Algiers, and 66° at La Calle, above 60° at most of the Mediterranean stations. Lowest 3° at Haparanda, 5° at Lillsjö, and 15° at Hemisund; below the freezing point over the central part of England, Ireland, and France. Daily maxima below 45° in many parts of the United Kingdom, but exceeding 50° in the west and exceeding 60° in the south of that country. Frost occurring over the inland part of England and Ireland at night.

Wind light from the N<sup>W</sup> in the north and northeast of our Islands, as well as over Denmark, Germany, and Austria, Moderate to fresh from the NE<sup>W</sup> on our western and southern coasts, from the E<sup>W</sup> in the west of France. Moderate to strong from the SW<sup>W</sup> or S<sup>W</sup> in the west of Norway, light from the N<sup>W</sup> over Sweden and the west of Russia. SW<sup>W</sup> over Italy. Variable in Spain, S<sup>W</sup> in Algeria. No important change occurring over Western Europe during day.

Barometer highest 30.5 in: and upwards in the northwest of Scotland, 30.3 in: and upwards in an anticyclone covering all the more northern parts of our Islands and the North Sea. Lowest 29.5 in: and less, in a depression over Central Russia, 29.7 in: and less, in another disturbance over Portugal, 30.0 in: and less, in a third system off the northwest of Norway. Portuguese depression subsequently moving eastwards across Spain; no other change of importance occurring over our area.

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

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

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

N.B.—The morning observations are made at 8 a.m. in the British Islands, Germany, Sweden, and Norway, 7 a.m. in France, Spain and Portugal, and 9 a.m. in Belgium. The evening observations are made at 6 p.m. in the British Islands (as a rule), and France, 8 p.m. at Oxford, in Sweden, Norway, and Germany, and 9 p.m. in Belgium. The time at each Station is the Standard Time of its Country.

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TERMS: For Daily Weather Report, forwarded by Book Post, £1 0 0 per annum.

„ Weekly „ „ „ £1 10 0 „



# DAILY WEATHER REPORT

for 8 a.m. on THURSDAY, 9<sup>TH</sup> NOVEMBER, 1893.

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

STATIONS.	YESTERDAY EVENING. (See note at bottom of last page.)						THIS MORNING. (See note at bottom of last page.)										PAST 24 HOURS.			
	BAROM.	TEMP.	WIND.		Weather.		BAROMETER.	SHADE TEMP.			WIND.		Weather.	Sea (0 to 9).			SHADE TEMP.		Amount of Rainfall.	
	Reading at 32° F. and Sea Level.	Dry Bulb.	Dirac.	Force (0 to 12).			Reading at 32° F. and Sea Level.	Change since Yesterday Morn.	Dry Bulb.	Wet Bulb.	Change in dry since Yesterday.	Dirac.	Force (0 to 12).				Max.	Min.		
	Ina.	°					Ina.	°	°	°							°	°	ins.	
SCANDINAVIA.	Haparanda ...	30.12	20	2	0	o	29.85	-0.2	29	28	+1	2	0	c	+	+	2	18	0.04	
	Hernösand ...	30.15	31	2	0	bc	30.14	+1.4	33	35	+2	2	0	b	+	+	37	21	—	
	Stockholm ...	30.23	32	W	2	b	30.25	+1.1	37	36	+11	W	2	o	+	+	37	21	—	
	Wisby ...	30.24	40	WNW	4	o	30.30	+0.7	41	38	+3	WNW	2	c	+	+	41	38	—	
	Bodö ...	29.94	42	WNW	6	T	30.01	0.0	40	37	+3	WNW	6	T	+	+	42	34	0.12	
	Christiansund...	30.07	42	WNW	4	c	30.44	+1.8	43	40	0	WNW	6	T	+	+	43	42	0.12	
	Skudesnaes ...	30.40	38	2	0	b	30.47	+1.6	32	32	-2	N	2	o	1	+	43	30	—	
	Christiania Fjord (Færdar)	30.38	38	2	0	b	30.38	+1.3	36	34	+4	WNW	2	b	1	+	39	32	—	
	Skagen (The Scaw)	30.36	39	NW	1	b	30.41	+1.5	37	36	+6	NW	1	b	0	+	41	30	—	
	Fanö ...	30.29	29	2	0	b	30.46	+1.8	30	27	-1	2	0	b	+	+	39	28	—	
ISLANDS	Sumburgh Head	30.43	43	NNE	1	o	30.58	+1.3	41	40	+2	NNE	1	o	2	+	44	38	—	
	Stornoway ...	30.53	42	NE	2	T	30.57	+0.8	41	41	0	2	0	T	3	+	47	36	0.10	
	Wick ...	30.51	40	N	2	o	30.55	+1.3	38	37	-4	N	2	o	1	+	45	35	—	
	Nairn ...	30.52	43	WNW	1	c	30.57	+0.9	38	38	-2	2	0	o	1	+	44	34	0.03	
	Aberdeen ...	30.51	40	WNW	2	c	30.56	+1.2	40	39	0	NW	2	og	4	+	46	37	0.02	
	Leith ...	30.48	42	N	2	o	30.54	+0.8	41	40	+2	NNE	2	om	+	+	45	38	—	
	Shields ...	30.40	45	WNW	2	b	30.45	+0.6	46	44	+7	NNE	4	cf	4	+	46	37	0.01	
	Spurn Head ...	30.31	44	NE	2	cf	30.36	+0.3	44	43	0	NE	3	c	4	+	46	41	0.06	
	York ...	30.36	40	N	1	b	30.41	+0.1	42	42	+7	N	1	m	+	+	45	35	0.08	
	Loughborough	30.35	41	NW	2	c	30.37	-0.1	40	39	+5	ENE	3	opdm	+	+	44	38	0.02	
BRITISH	Ardrossan ...	30.48	42	2	0	b	30.54	+0.7	38	36	+1	N	2	c	1	+	47	35	—	
	Malin Head ...	30.50	44	ENE	5	ogf	30.53	+0.3	44	42	+1	E	3	bc	1	+	46	42	0.02	
	Mullaghmore ...	30.53	42	E	2	o	30.51	-0.1	43	42	+6	ENE	2	o	+	+	48	35	0.01	
	Belmullet ...	30.49	47	NNE	5	bc	30.51	+0.2	44	41	+1	ENE	5	b	3	+	48	43	—	
	Donaghadee ...	30.49	47	NNE	5	bc	30.51	+0.2	44	41	+1	ENE	5	b	3	+	48	43	—	
	Liverpool (Bldston)	30.41	42	WNW	2	o	30.40	-0.4	43	41	+8	NE	2	c	1	+	48	35	—	
	Holyhead ...	30.41	46	NE	3	b	30.39	-0.3	47	48	+4	ENE	4	og	4	+	47	43	—	
	Parsonstown ...	30.32	37	WN	1	bc	30.44	-0.6	38	37	+7	2	0	og	+	+	45	36	—	
	Valencia ...	30.47	40	NE	2	b	30.40	-0.6	43	42	+1	NE	4	c	4	+	46	37	—	
	Roche's Point	30.44	43	NE	3	b	30.37	-0.6	43	40	0	NNE	3	b	3	+	47	37	—	
GERMANY & HOLLAND	Pembroke (St. Ann's Hd.)	30.35	43	NE	3	bc	30.31	-0.5	42	41	+1	NE	4	bc	3	+	44	38	—	
	Scilly ...	30.26	46	ENE	6	c	30.20	-0.9	45	39	+1	ENE	6	c	4	+	47	40	—	
	Prawle Point ...	30.26	42	NNE	6	c	30.19	-0.9	42	41	+5	NNE	6	op	5	+	46	36	0.01	
	Jersey (St. Aubin's)	30.17	48	ENE	6	bm	30.09	-1.2	44	39	0	NE	6	bc	5	+	46	42	—	
	Hurst Castle ...	30.29	41	NNE	4	c	30.22	-0.6	41	40	+3	NE	5	om	1	+	45	38	0.02	
	Dungeness ...	30.20	45	ENE	6	og	30.21	-0.3	42	39	+2	E	7	cf	6	+	46	39	—	
	North Foreland	30.24	45	E	6	cq	30.25	-0.1	41	37	-2	E	6	bcq	6	+	47	34	—	
	London ...	30.28	43	NE	2	c	30.27	-0.2	40	38	+2	ENE	4	b	+	+	45	37	—	
	Oxford ...	30.32	40	N	1	o	30.30	-0.3	39	38	+1	NE	2	o	+	+	47	36	0.01	
	Cambridge ...	30.32	40	WNW	3	o	30.33	+0.1	37	36	+1	NNE	3	b	+	+	48	31	—	
FRANCE AND BELGIUM	Yarmouth ...	30.27	43	ENE	4	c	30.32	+0.5	41	38	-2	ENE	6	bcq	5	+	48	39	0.02	
	Cuxhaven ...	30.35	38	NE	2	b	30.45	+1.4	35	34	2	ENE	2	b	+	+	36	2	—	
	Berlin ...	30.27	34	N	2	c	30.41	+2.4	31	30	-1	E	1	o	+	+	37	30	0.04	
	Wiesbaden ...	30.21	30	+	+	+	30.21	+0.6	33	30	+1	NE	2	b	+	+	39	30	—	
	Munich ...	30.04	30	E	6	c	30.05	+0.6	29	27	+1	NE	3	o	+	+	32	27	0.04	
	The Helder ...	30.35	39	ENE	1	b	30.45	+1.1	35	32	+2	E	4	b	+	+	41	33	—	
	Brussels (9 a.m.)	30.25	30	+	+	+	30.25	-0.2	29	28	+2	ENE	4	b	+	+	37	26	—	
	Cape Gris Nez	30.20	37	E	5	bc	30.18	-0.1	34	32	0	E	5	b	+	+	43	30	—	
	Paris ...	30.10	32	NNE	3	b	30.02	-1.1	30	28	+1	NE	3	b	+	+	37	29	—	
	Brest ...	30.07	42	ENE	3	b	30.01	-1.2	37	33	+2	E	3	b	+	+	43	32	—	
PENIN-SULA	Lorient ...	30.07	43	NE	6	b	30.01	-1.2	37	33	+1	NE	6	b	+	+	43	34	—	
	Rochefort ...	29.94	36	ENE	6	b	29.98	+0.3	33	32	0	ENE	5	o	+	+	43	30	—	
	Belfort ...	29.92	37	E	4	c	29.92	0.0	33	30	+1	NE	3	o	+	+	39	32	—	
	Lyons ...	29.82	34	WNW	3	o	29.82	-0.4	34	31	+4	N	1	op	+	+	37	30	—	
	Nice ...	29.50	32	E	4	T	29.69	+1.6	47	46	-5	E	3	T	4	+	37	46	1.73	
	Perpignan ...	29.72	45	NW	1	o	29.73	+1.0	41	38	-7	N	1	o	+	+	35	38	0.08	
	Biarritz ...	29.81	41	ENE	3	o	29.76	-0.1	37	36	-4	SE	1	o	2	+	43	34	—	
	Corunna ...	29.73	31	+	+	+	29.81	+1.2	47	44	-1.2	NW	1	o	+	+	63	46	—	
	Lisbon ...	29.73	31	+	+	+	29.81	+1.2	47	44	-1.2	NW	1	o	+	+	63	46	—	

For Explanation of Columns, see bottom of last page.

† Received too late for insertion in Charts on next page.



for 8 a.m. on Thursday, 9<sup>th</sup> November, 1893.

### 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:

 = Rough,  = High.

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

*During the 20 Years 1871—1890.*

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 November.)

A hand-drawn weather map of the North Atlantic and Europe, showing temperature isotherms and weather conditions. The map includes latitude and longitude lines (20°N to 40°N, 60°W to 20°E). Handwritten notes include "Rain has fallen", "WARMER", "RATHER", "COLDER", "IN MOST PLACES", and "Snow has fallen". Various temperature readings (e.g., 43, 38, 30, 29, 37, 41) and weather symbols (e.g., clouds, rain, snow) are scattered across the map.



# GENERAL SITUATION AT 8 A.M.

## PRESSURE

Highest, 30.5 in: and upwards over Scotland and the north of Ireland.  
 Lowest, 29.7 in: and less, in the extreme south of France, 29.3 in: and less in the north of Sweden.  
 Gradients moderate over France, Germany, and the south of our Islands, slight elsewhere.  
 Barometer falling a little on our western and southern coasts and also in France, rising in most other parts of Western Europe.

## TEMPERATURE

Highest, (1) 47° at Holyhead, 46° at Shields, 45° at Selly, and 44° at Spinn 11<sup>th</sup>, Malin 11<sup>th</sup>, Donaghadee and Jersey; (2) 47° at Nice and Lisbon.  
 Lowest, (1) 29° at Haparanda and 31° at Rudenale; (2) 28° at Jané, 29° at Brüssel, 30° at Paris, and 31° at Berlin.  
 Light frost was experienced last night over the inland parts of England and Ireland.

## WIND

NE<sup>ly</sup> or E<sup>ly</sup> over England, Ireland, France and Germany, strong in force over the Channel and Bay of Biscay.  
 Light from the N<sup>ly</sup> in Scotland and from the NW<sup>ly</sup> in the south of Scandinavia, strong from WSW in the west of Norway; calm in the north of Sweden.

## WEATHER

Cloudy in most parts of Great Britain, with showers at Shields, Loughborough, and Bawle Point.  
 Fine in Ireland as well as at many of the Continental stations, but dull in Germany and the south of France, with rain at Nice.  
 Showers fell yesterday at several of our eastern and southern stations, and heavy rain (1.7 in:) at Nice. *Rain in the west of Norway.*

## SEA

Rough on the Kentish coasts and rather rough in the south and southeast generally, but moderate or slight elsewhere.

## PROBABLE CHANGES IN SYSTEM NOW PREVALENT

There are at present no signs of any change in the weather.

# FORECASTS

For the 24 hours ending at NOON on 10<sup>th</sup> November, 1893.

## DISTRICTS.

## FORECASTS.

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

N<sup>ly</sup> winds, light; fair generally.  
 NE<sup>ly</sup> winds, moderate or fresh; fair generally, but local showers.  
 Same as N° 5.  
 Same as N° 2.  
 E<sup>ly</sup> and NE<sup>ly</sup> winds, moderate inland, strong on coast; fair generally, but perhaps local showers.

## DISTRICTS.

## FORECASTS.

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

Same as N° 0 and 1.  
 NE<sup>ly</sup> winds, freshening; fair generally.  
 E<sup>ly</sup> and NE<sup>ly</sup> winds, strong; fair generally.  
 Same as N° 7.  
 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.	F.	WEA.	SEA.		BAR.	THER.		WIND.	F.	WEA.	SEA.
		Dry.	Wet.	Dirac.						Dry.	Wet.	Dirac.			
Skudesnaes ...	30.24	42	39	N	2	b	1	Valencia ...	30.46	46	44	ENE	4	b	4
Sumburgh Head ...	30.47	43	40	NNE	1	o	2	Scilly ...	30.28	47	40	NE	6	c	4
Stornoway ...	30.53	45	45	N	2	o	3	Jersey ...	30.18	46	41	NE	5	km	4
Aberdeen ...	30.47	44	42	N	2	c	4	Hurst Castle ...	30.29	48	40	NE	5	mg	3
Shields ...	30.29	46	44	N	2	cp	5	Dungeness ...	30.20	44	40	E	6	c	5
Ardrossan ...	30.47	46	44	2	o	o	o	North Foreland ...	30.25	44	38	E	5	bcg	6
Malin Head ...	30.57	46	43	NNE	2	of	1	London (W. M. A. J.)	30.29	46	41	NE	3	c	*
Mullaghmore ...								Yarmouth ...	30.27	45	42	ENE	4	c	4
Belmullet ...	30.52	43	40	ENE	2	og	*	Rochefort ...	29.94	41	39	ENE	6	b	*
Holyhead ...	30.43	46	42	NE	3	b	2								

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

Weather fine over the greater part of the United Kingdom, but showery with hail, on our extreme southeast coasts. Fine also over Denmark, the Netherlands, the south of Scandinavia and the north of France, but dull in most other parts of the Continent, with rain in Austria, the south of France, and the northeast of Spain, and with snow at Warsaw, Lemberg, and Nicolaïff. Showers falling during day, in several parts of Great Britain and heavy rain (1.7 in.) at Nice.

Temperature risen slightly over northwestern Europe, but fallen elsewhere. Morning readings highest 69° at Cagliari, Palermo, and Malta, 68° at Brindisi, and 67° at Algiers; above 60° at several of the Mediterranean and Adriatic stations. Lowest 14° at Archangel, 22° at Helsingfors and St. Petersburg, and 26° at Hakaranda and Moscow; below the freezing point in many parts of northern and central Europe and also over Central Ireland. Daily maxima over our Islands ranging in most places between 45° and 47°. Thermometer exceeding 55° in the south of France, and reaching 63° at Lisbon.

Wind N<sup>1</sup> in Scotland, but NE<sup>1</sup> or E<sup>1</sup> over Ireland, England, France, and Western Germany; fresh or strong in force over the Channel and Bay of Biscay. Light from the W<sup>2</sup> over the northern part of Scandinavia and Russia, but NE<sup>1</sup> in the south of Russia, and NW<sup>1</sup> in Austria. SE<sup>1</sup> or E<sup>1</sup> in Italy, variable in Algeria. No important change occurring over Western Europe during day.

Barometer highest 30.5 in. and upwards over the northwest of Ireland; 30.3 in. and upwards over the greater part of our Islands and the North Sea. Lowest 29.5 in. and less, in a depression lying off the south of France, 29.7 in. and less, in another disturbance over Finland. Barometer rising during day at most of the northern stations, but falling slightly in the south.

### EXPLANATION OF THE 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.

N.B.—The morning observations are made at 8 a.m. in the British Islands, Germany, Sweden, and Norway, 7 a.m. in France, Spain and Portugal, and 9 a.m. in Belgium. The evening observations are made at 6 p.m. in the British Islands (as a rule), and France, 8 p.m. at Oxford, in Sweden, Norway, and Germany, and 9 p.m. in Belgium. The time at each Station is the Standard Time of its Country.

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" Weekly " " " £1 10 0 "



# DAILY WEATHER REPORT

for 8 a.m. on FRIDAY, 10<sup>TH</sup> NOVEMBER, 1893

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

STATIONS.		YESTERDAY EVENING. (See note at bottom of last page.)					THIS MORNING. (See note at bottom of last page.)										PAST 24 HOURS.			
		Barom.	Temp.	Wind.		Weather.	Barometer.	Shade Temp.			Wind.		Sea (0 to 3).	Weather.	Shade Temp.		Amount of Rainfall.			
				Force (0 to 12).				Dry Bulb.	Wet Bulb.	Change in dry since Yesterday.	Dir.	Force (0 to 12).			Max.	Min.				
		Reading at 32° F. and Sea Level.	Dry Bulb.	Dir.	Force (0 to 12).		Reading at 32° F. and Sea Level.	Change since Yesterday Morn.	Dry Bulb.	Wet Bulb.	Change in dry since Yesterday.	Dir.	Force (0 to 12).			Max.	Min.			
		Inch.	°				Inch.	°	°	°						°	°	Inch.		
SCANDINAVIA.	Haparanda ...	29.88	23	2	0	b	29.80	-0.08	29	28	0	2	0	0	0	32	19	—		
	Hernösand ...	30.10	38	W	2	b	29.88	-0.22	38	37	+1	W	2	0	0	43	28	—		
	Stockholm ...	30.26	37	W	2	b	30.10	-0.16	38	38	-4	NNW	1	0	0	41	28	—		
	Wisby ...	30.31	41	NNW	2	b	30.17	-0.14	39	37	-2	NNW	4	0	0	43	37	—		
	Bodö ...	29.93	42	SW	6	T	29.80	-0.13	39	38	-1	2	0	0	0	43	36	0.01		
	Christiansund...	30.34	42	SW	0	T	30.22	-0.12	46	44	+2	NNW	6	0	6	46	41	0.01		
	Skudesnaes ...	30.40	36	ENE	2	b	30.34	-0.06	39	38	-1	NNW	2	0	2	41	32	—		
	Christiania Fjord (Færd)	30.38	36	N	2	b	30.17	-0.21	34	38	-2	NNW	2	0	1	36	32	—		
	Skagen (The Seaw)	30.26	40	NNW	1	b.c.	30.18	-0.08	41	40	+1	N	1	0	0	45	34	—		
	Fanö ...	30.41	34	SE	2	b	30.28	-0.13	41	41	+13	W	2	0	0	43	28	—		
BRITISH ISLANDS.	Sumburgh Head	30.56	41	NNE	1	c	30.48	-0.08	47	48	+6	NNW	2	0	3	47	39	0.02		
	Stornoway ...	30.57	42	2	0	T	30.54	-0.03	41	40	0	2	0	0	2	44	38	0.05		
	Wick ...	30.55	41	NW	2	0	30.47	-0.08	40	40	+2	NW	2	0	1	44	37	—		
	Nairn ...	30.56	41	2	0	c	30.53	-0.03	42	40	+4	NNW	1	0	1	48	36	—		
	Aberdeen ...	30.55	43	NNW	2	0.9	30.52	-0.03	41	39	+1	NW	2	0	3	44	40	—		
	Leith ...	30.51	45	NE	2	0	30.50	-0.01	42	40	+1	NNE	2	0	0	45	40	—		
	Shields ...	30.45	45	NE	4	p	30.43	-0.02	45	43	-1	NE	3	0.0.0	5	46	42	0.04		
	Spurn Head ...	30.36	45	ENE	4	c.v	30.36	0.0	44	42	0	NE	4	0	4	46	43	—		
	York ...	30.41	44	NE	1	0	30.42	+0.01	42	40	0	NE	2	0	0	48	40	0.02		
	Loughborough	30.36	38	NE	2	b	30.36	-0.01	42	38	+4	NE	3	0.0.0	0	46	36	0.01		
GERMANY & HOLLAND.	Ardrossan ...	30.50	44	NE	2	0.0.0	30.50	-0.04	42	40	+4	NE	2	0.0.0	1	44	37	—		
	Malin Head ...	30.48	46	ENE	4	0	30.48	-0.02	45	44	+1	E	4	0	2	46	44	—		
	Mullaghmore ...	30.44	45	E	2	0	30.44	-0.01	48	40	0	NE	2	0	0	48	40	—		
	Belmullet ...	30.46	47	NE	6	c	30.46	-0.05	46	42	+2	ENE	7	0	5	47	43	—		
	Donaghadee ...	30.44	45	E	2	0	30.44	-0.01	48	40	0	NE	2	0	0	48	40	—		
	Liverpool (Bidston)	30.38	44	ENE	4	0	30.40	0.0	42	39	-1	ENE	2	0	2	46	39	—		
	Holyhead ...	30.38	46	ENE	5	0	30.36	-0.02	44	41	-3	E	5	0	4	47	43	0.01		
	Parsonstown ...	30.36	44	NE	1	0	30.38	-0.02	42	39	+4	NE	1	0	0	46	42	—		
	Valencia ...	30.32	46	NE	4	0	30.37	-0.05	41	40	-2	NE	6	0	0	47	39	—		
	Roche's Point	30.27	45	NE	4	b	30.29	-0.02	43	41	0	E	4	0	4	50	41	—		
FRANCE AND BELGIUM.	Pembroke (St. Ann's Hd.)	30.21	43	NE	4	b	30.23	-0.02	41	39	-1	ENE	5	0	4	47	39	—		
	Scilly ...	30.09	45	ENE	7	c	30.11	-0.02	43	40	-2	ENE	7	0	5	47	40	—		
	Prawle Point ...	30.07	42	ENE	7	c	30.12	-0.05	41	38	-1	ENE	7	0	6	43	38	—		
	Jersey (St. Aubin's)	30.00	40	ENE	7	0.0.0	30.05	-0.05	41	39	-2	E	6	0.0.0	5	45	39	—		
	Hurst Castle ...	30.11	43	ENE	8	b	30.17	-0.06	43	40	+2	NE	6	0	4	45	38	—		
	Dungeness ...	30.14	43	E	9	c	30.14	-0.01	44	41	+2	E	8	0	8	45	40	—		
	North Foreland	30.19	43	E	8	b.c.	30.23	-0.04	44	40	+4	E	8	0	7	45	37	—		
	London ...	30.21	40	ENE	4	b.c.	30.23	-0.02	42	40	+2	ENE	5	0	0	45	37	—		
	Oxford ...	30.25	37	NE	6	b	30.28	-0.03	41	38	+2	NE	4	0	0	44	35	—		
	Cambridge ...	30.30	35	NNE	5	b	30.30	-0.01	41	39	+4	NNE	2	0	0	46	32	—		
PENINSULA.	Yarmouth ...	30.30	42	ENE	7	b.c.	30.29	-0.01	44	42	+2	ENE	7	0	6	44	39	—		
	Cuxhaven ...	30.44	40	ENE	2	b	30.37	-0.07	39	38	+1	ENE	1	0	0	41	35	—		
	Berlin ...	30.41	34	E	1	b	30.32	-0.09	38	38	-2	2	0	0	0	36	28	—		
	Wiesbaden ...	30.40	30	E	6	0	30.12	-0.28	32	32	-1	NE	1	0	0	33	30	—		
	Munich ...	30.08	30	E	6	0	29.99	-0.09	28	27	-1	NE	7	0	0	30	28	—		
	The Helder ...	30.42	40	ENE	6	b	30.37	-0.05	39	35	+4	E	4	0	0	40	32	—		
	Brussels (9 a.m.)	30.12	35	E	6	b	30.18	-0.06	32	32	-2	E	6	0	6	41	30	—		
	Cape Gris Nez	30.02	36	NE	3	b.c.	30.00	-0.02	31	29	+1	NE	2	0	0	38	2	—		
	Brest ...	29.90	36	ENE	6	0	29.93	-0.03	36	32	-1	ENE	6	0	0	48	32	—		
	Lorient ...	29.90	36	ENE	6	0	29.93	-0.03	36	32	-1	ENE	6	0	0	37	34	—		
PENINSULA.	Rochefort ...	29.82	37	ENE	6	0	29.79	-0.03	36	34	+2	ENE	6	0	0	41	33	—		
	Belfort ...	29.82	37	E	5	0	29.82	0.0	35	32	+2	E	5	0	0	38	31	—		
	Lyons ...	29.80	38	N	1	0	29.84	+0.04	33	32	-1	NNE	1	0	0	39	32	0.04		
	Nice ...	29.73	32	E	2	c	29.72	+0.01	49	46	+2	NE	6	0	5	37	46	0.63		
	Perpignan ...	29.61	41	NW	2	T	29.60	-0.01	41	39	0	NW	3	0	0	48	39	1.18		
	Biarritz ...	29.72	41	NE	2	0	29.74	-0.02	41	40	+1	NE	2	0	0	43	36	0.16		
	Corunna ...	29.89	40	NW	2	0	29.96	+0.07	46	45	-1	NE	3	0	0	54	43	—		
	Lisbon ...	29.89	40	NW	2	0	29.96	+0.07	46	45	-1	NE	3	0	0	54	43	—		

For Explanation of Columns, see bottom of last page.

† Received too late for insertion in Charts on next page.



# WEATHER CHARTS

for 8 a.m. on Friday, 10<sup>th</sup> November, 1893.

## 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:

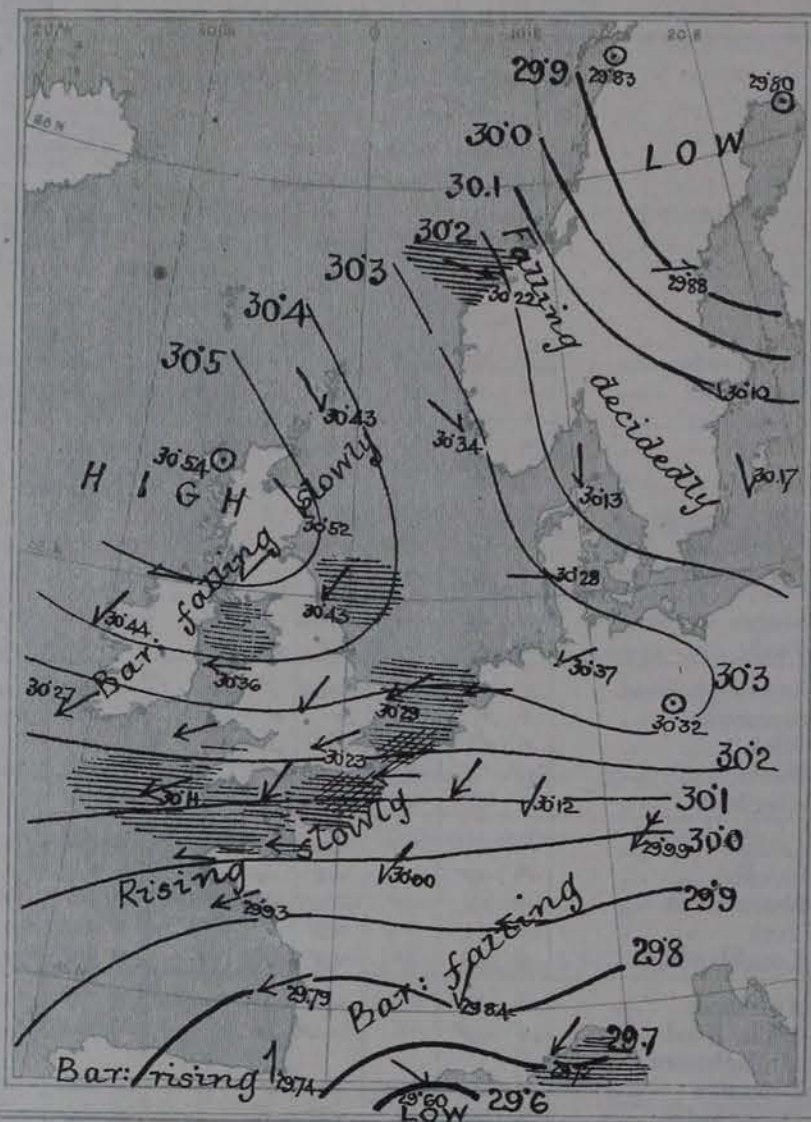
☼ = Rough. ☼ = High.

### MEAN HEIGHT OF THE BAROMETER

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

During the 20 Years 1871—1890.

STATIONS.	MEAN READINGS.
Sumburgh Head	29.683
Stornoway	29.699
Wick	29.722
Nairn	29.738
Aberdeen	29.758
Leith	29.789
Shields	29.813
Spurn Head	29.842
York	29.846
Loughborough	29.877
Ardrossan	29.791
Mullaghmore	29.780
Donaghadee	29.810
Holyhead	29.835
Liverpool	29.851
Parsonstown	29.847
Valencia	29.865
Roche's Point	29.865
Pembroke	29.864
Scilly	29.807
Prawle Point	29.814
Jersey	29.928
Hurst Castle	29.902
Dover	29.893
LONDON	29.898
Oxford	29.890
Cambridge	29.887
Yarmouth	29.865



## 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.

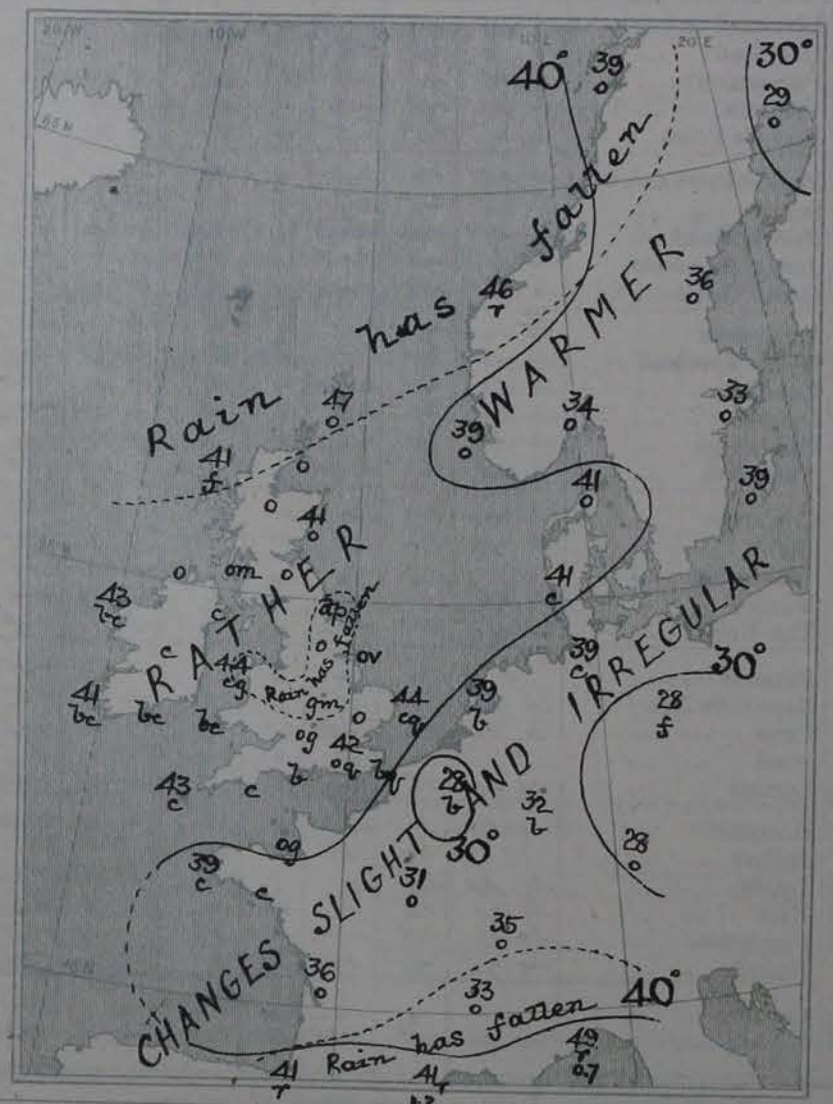
**RAINFALL**—A dotted line separates the districts in which rain has fallen from those where there has been none. Falls of 0.5 in. or more are quoted in figures.

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

(For the month of November.)

STATIONS.	TEMPERATURE.				RAINFALL. (Inches.)
	Daily Max.	Daily Min.	at 8 a.m.		
			Dry.	Wet.	
Sumburgh Head	45.6	37.8	42.0	40.3	4.16
Stornoway	40.2	37.0	41.7	40.7	4.70
Wick	40.1	36.1	41.4	39.8	2.83
Nairn	45.3	35.7	39.8	38.2	2.29
Aberdeen	46.2	36.5	40.5	38.7	3.14
Leith	48.1	37.0	41.7	40.0	2.90
Shields	47.3	37.8	42.1	40.5	2.61
Spurn Head	46.8	40.2	43.2	41.9	2.40
York	47.5	36.4	40.8	39.3	2.19
Loughborough	48.0	36.0	40.5	39.3	2.24
Ardrossan	47.8	39.1	43.1	41.3	3.88
Mullaghmore	49.6	41.2	45.1	43.1	4.48
Donaghadee	48.3	39.2	43.2	42.0	3.29
Holyhead	49.7	42.9	45.8	44.0	3.88
Liverpool	47.8	39.0	42.5	40.7	2.96
Parsonstown	49.1	37.1	41.0	40.2	2.83
Valencia	52.3	43.0	47.4	45.5	5.42
Roche's Point	51.1	42.0	46.1	44.5	4.62
Pembroke	50.1	43.8	46.9	45.1	4.04
Scilly	52.4	45.7	50.0	48.0	3.72
Prawle Point	51.1	41.9	46.2	44.7	3.20
Jersey	51.0	44.1	47.7	45.8	4.30
Hurst Castle	50.5	40.6	44.9	44.0	3.01
Dover	49.3	40.6	44.3	42.8	3.48
LONDON	49.3	38.0	42.2	40.8	2.23
Oxford	48.2	37.6	41.2	40.0	2.31
Cambridge	48.6	35.8	40.7	39.9	2.01
Yarmouth	47.5	33.0	43.1	42.0	3.06

NOTE.—The Temperature means are for the 20 years 1871-90, the Rainfall means are mainly those for the 25 years 1866-90.





# GENERAL SITUATION AT 8 A.M.

## PRESSURE

Highest, 30.5 in. and upwards, over Scotland.

Lowest, 29.6 in. and less, in a depression over the Gulf of Lyons; 29.9 in. and less, over the northern part of Scandinavia.

Gradients rather steep over the south of our Islands and the north of France, but moderate or slight elsewhere.

Barometer rising at some of our own western and southern stations, but falling in most other parts of our area.

## TEMPERATURE

Highest, (1) 49° at Nice and 46° at Lisbon; (2) 47° at Sumburgh Head, 46° at Christiansund and Donaghadee, and 45° at Shields.

Lowest, (1) 28° at Brussels, Berlin, and Munich, 31° at Paris and 32° at Hamburg; (2) 29° at Haparanda and 33° at Stockholm.

The maxima registered over our Islands yesterday ranged in most cases between 44° and 48°, but at Rockall the thermometer reached 50°.

## WIND

NE or E over England, Ireland, Germany, the Netherlands, and the greater part of France; strong in force on many parts of our western and southern coast, with a gale in the SE of England.

Light from the NW in the north and east of Scotland, as well as over the greater part of Scandinavia.

In the course of the past 24 hours a fresh or strong gale has been experienced at most of the Channel stations.

## WEATHER

Fine on some parts of our south and southwest coasts, as well as in the Netherlands.

Cloudy or overcast elsewhere, with showers at Shields, and with steady rain in the south of France.

Showers fell yesterday at several of our northern stations, and considerable amounts of rain in the coast of Norway and the south of France.

## SEA

Very high in the Straits of Dover, and rough or rather so on our south and east coasts generally, as well as at Donaghadee.

## PROBABLE CHANGES IN SYSTEM NOW PREVALENT

The changes in pressure are somewhat undecided, but there are some indications of the advance of depressions over Scandinavia from the northward. Strong E winds seem likely, however, to continue for a time on our western and southern coasts.

## FORECASTS

For the 24 hours ending at NOON on 11<sup>th</sup> November, 1893.

DISTRICTS.		FORECASTS.	
0	SCOTLAND NORTH	{	<i>N<sup>ly</sup> and NW<sup>ly</sup> winds, moderate; cloudy, probably some showers.</i>
1	SCOTLAND EAST		
2	ENGLAND N.E.		<i>NE<sup>ly</sup> winds, moderate; cloudy, local showers.</i>
3	ENGLAND EAST		<i>Same as No 5</i>
4	MIDLAND COUNTIES		<i>Same as No 2</i>
5	ENGLAND SOUTH		<i>E<sup>ly</sup> and NE<sup>ly</sup> winds, strong, a gale on coast; fair generally, but perhaps local showers.</i>

DISTRICTS.		FORECASTS.	
6	SCOTLAND WEST		<i>Same as No 2.</i>
7	ENGLAND N.W.		<i>E<sup>ly</sup> and NE<sup>ly</sup> winds, strong; fair generally.</i>
8	ENGLAND S.W.		<i>Same as No 5.</i>
9	IRELAND NORTH	{	<i>Same as No 7.</i>
10	IRELAND SOUTH		
WARNINGS		<i>At 3.0 pm yesterday to districts 3.5 and 8, and at 7.20 pm to districts 7.9. and 10</i> <i>"Hoist North Cone"</i>	

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.	F.	WEA.	SEA.		BAR.	THER.		WIND.	F.	WEA.	SEA.
		Dry.	Wet.	Dir.						Dry.	Wet.	Dir.			
Skudesnaes ...	30.45	41	38	NNW	4	bc	2	Valencia ...	30.34	47	45	NNE	4	bc	4
Sumburgh Head ...	30.53	40	40	NNW	2	c	2	Scilly ...	30.11	47	40	NE	6	c	4
Stornoway ...	30.57	43	43	2	0	0	3	Jersey ...	29.89	43	39	E	7	bc	5
Aberdeen ...	30.50	43	40	NNW	2	og	3	Hurst Castle ...	30.12	43	41	NE	8	bc	5
Shields ...	30.45	43	44	NE	4	cp	5	Dungeness ...	30.10	43	41	E	8	bc	7
Ardrossan ...	30.49	42	40	NE	2	om	1	North Foreland ...	30.21	43	41	E	6	bc	6
Malin Head ...	30.49	43	42	ENE	4	bc	2	London ...	30.24	44	39	ENE	5	c	*
Mullaghmore ...								Yarmouth ...	30.31	43	40	ENE	6	bc	5
Belmullet ...	30.47	43	45	NE	2	c	*	Rocheport ...	29.83	37	35	ENE	6	o	*
Holyhead ...	30.36	46	43	ENE	5	ofg	4								

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

Weather cloudy in most parts of Great Britain, with showers in a few places, but fine in Ireland. Fine and bright over Denmark, the Netherlands and the north of France, dull in most other parts of the Continent, with rain in the west of Norway, and the extreme south of France, and snow at Kieff. Light showers falling later at several of our northern stations, and heavy rain in the south of France.

Temperature risen slightly in most of the northwestern countries, but fallen elsewhere. Morning readings highest 75° at Malta, 68° at Brindisi, and 64° at Sangermano, Naples, and Constantinople. Lowest, 18° at Kuopio, 20° at Archangel, 24° at Moscow, and 26° at Uleaborg, below the freezing point in many parts of Russia, Germany, and Denmark, and below 40° in several parts of the United Kingdom. Rising during day to between 44° and 48° in most parts of our Island, but remaining below 40° over Germany, the Netherlands, and Central France, exceeding 55° in the Riviera.

Wind NE<sup>1</sup> or E<sup>5</sup> over Ireland, England, France, Germany, and northern Italy. Strong in force over the Channel and Bay of Biscay, and blowing a gale from the NE<sup>2</sup> at Munich and Trieste. Strong from the W<sup>2</sup> in the west of Norway, light from the NW<sup>2</sup> over Sweden, Denmark, and Russia. Variable over Spain, Algeria, and the south of Italy. Subsequently increasing to a gale from the E<sup>2</sup> over the Channel and south-east of England.

Barometer highest 30.5 in. and upwards over Scotland and the adjacent parts of the North Sea. Lowest 29.7 in. and less, in a large depression over the western part of the Mediterranean, and also in a smaller system over Central Italy; 29.8 in. and less, in the extreme north of Russia. Mediterranean depression subsequently spreading northwards, and barometer falling in most parts of our Islands and France.

### EXPLANATION OF THE 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.

N.B.—The morning observations are made at 8 a.m. in the British Islands, Germany, Sweden, and Norway, 7 a.m. in France, Spain and Portugal, and 9 a.m. in Belgium. The evening observations are made at 6 p.m. in the British Islands (as a rule), and France, 8 p.m. at Oxford, in Sweden, Norway, and Germany, and 9 p.m. in Belgium. The time at each Station is the Standard Time of its Country.

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# DAILY WEATHER REPORT

for 8 a.m. on SATURDAY, 11TH NOVEMBER, 1893

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

STATIONS.		YESTERDAY EVENING. (See note at bottom of last page.)					THIS MORNING. (See note at bottom of last page.)										PAST 24 HOURS.			
		Barom.	Temp.		Wind.		Weather.	Barometer.	Shade Temp.			Wind.		Sea (0 to 9).	Weather.	Shade Temp.		Amount of Rainfall.		
			Reading at 32° F. and Sea Level.	Dry Bulb.	Direc.	Force (0 to 12).			Dry Bulb.	Wet Bulb.	Change in dry since Yesterday.	Direc.	Force (0 to 12).			Max.	Min.			
																			Ina.	°
SCANDINAVIA.	Haparanda ...	29.53	32	SW	2	0	29.58	-0.05	31	30	+2	N	6	b	*	0	32	12	—	
	Hernösand ...	29.58	42	WNW	6	b	29.59	+0.01	42	41	+4	N	2	0	*	b	45	37	—	
	Stockholm ...	30.07	38	N	2	0	30.08	-0.01	39	36	+6	WNW	2	b	*	0	41	30	0.04	
	Wisby ...	30.10	40	WNW	4	0	30.09	-0.01	41	39	+2	WNW	4	c	*	0	41	37	—	
	Bodö ...	29.34	40	WNW	7	7	30.00	+0.17	34	30	-5	N	2	0	7	43	32	0.04		
	Christiansund...	30.30	44	WNW	3	7	30.32	+0.10	47	45	+1	WNW	6	0	5	7	43	0.12		
	Skudesnaes ...	30.34	42	WNW	4	b	30.34	0.0	42	41	+3	WNW	6	0	2	b.c.	45	39	—	
	Christiania Fjord (Fjorder)	30.34	41	N	2	b	30.34	+0.07	37	36	+3	N	2	b	1	b	41	34	—	
	Skagen (The Seaw)	30.24	44	NE	1	b	30.28	+0.15	40	39	-1	WNW	1	b	0	b	45	36	—	
	Fanö ...	30.22	32	N	2	b	30.31	+0.09	31	33	-10	N	1	b	*	b	46	30	—	
ISLANDS.	Sumburgh Head	30.44	47	WNW	2	0	30.49	+0.06	46	43	-1	NNE	1	0	2	b.c.	49	44	—	
	Stornoway ...	30.53	43	N	3	0	30.58	+0.01	45	44	+4	NE	2	0	3	m.o.	45	30	—	
	Wick ...	30.51	46	NW	2	0	30.52	+0.05	45	44	+5	NW	2	0	1	0	48	30	—	
	Nairn ...	30.53	43	2	0	c	30.53	+0.02	42	41	0	WNW	1	om	1	c	43	39	—	
	Aberdeen ...	30.51	43	WNW	3	og	30.53	+0.01	44	43	+3	NW	2	odm	3	og.og	45	40	0.01	
	Leith ...	30.48	44	NNE	3	0	30.54	+0.04	42	40	0	WNW	1	0	*	0	45	37	—	
	Shields ...	30.43	46	NNE	2	dp	30.45	+0.02	49	47	+4	NNE	3	0	4	c.p.d.	49	42	0.01	
	Spurn Head ...	30.53	45	NNE	4	ovp	30.57	+0.01	47	45	+3	NNE	3	ov	4	ovp	47	43	0.02	
	York ...	30.40	44	NE	1	0	30.43	+0.01	45	41	+3	NE	1	0	*	0	46	41	0.02	
	Loughborough	30.37	43	NNE	2	0	30.40	+0.04	45	44	+3	NNE	1	cm	*	opd	45	41	0.01	
BRITISH.	Ardrossan ...	30.50	41	NE	1	om	30.53	+0.03	40	39	-2	NE	1	cm	0	om	46	38	—	
	Malin Head ...	30.48	44	ENE	3	0	30.50	+0.02	48	46	+3	E	3	0	1	0	48	43	—	
	Mullaghmore ...	30.44	47	E	3	0	30.46	+0.02	46	44	+3	E	2	0	*	0	47	40	—	
	Belmullet ...	30.48	45	ENE	6	0	30.49	+0.03	49	46	+3	ENE	6	bc	4	0	49	45	—	
	Donaghadee ...	30.48	45	ENE	6	0	30.49	+0.03	49	46	+3	ENE	6	bc	4	0	49	45	—	
	Liverpool (Bidston)	30.41	43	ENE	3	0	30.44	+0.04	45	44	+3	NE	1	7	1	0	49	41	0.01	
	Holyhead ...	30.38	45	E	4	0	30.42	+0.06	49	47	+5	ENE	3	og	3	c.o.	49	44	—	
	Parsonstown ...	30.39	44	SE	1	0	30.43	+0.05	43	40	+1	NE	1	0	*	0	46	39	—	
	Valencia ...	30.34	40	E	1	b	30.36	+0.09	46	44	+5	ENE	2	c	2	bc.b	49	37	—	
	Roche's Point	30.32	45	E	5	c	30.35	+0.06	49	46	+6	ENE	5	c	4	c	49	43	—	
GERMANY & HOLLAND.	Pembroke (St. Ann's Hd.)	30.28	43	ENE	4	b	30.36	+0.13	46	45	+5	ENE	3	cq	3	b	47	39	—	
	Scilly ...	30.16	47	ENE	5	bcm	30.23	+0.12	48	44	+5	ENE	6	c	4	c.bcm	48	40	—	
	Prawle Point ...	30.16	44	ENE	7	c	30.26	+0.14	46	45	+5	ENE	6	0	5	c	47	37	—	
	Jersey (St. Aubin's)	30.08	47	NE	6	bcm	30.22	+0.17	46	44	+5	ENE	4	bc	4	bc.bm	48	40	—	
	Hurst Castle ...	30.23	44	NE	6	bcm	30.28	+0.11	46	45	+3	NNE	4	c	4	bcm	47	42	—	
	Dungeness ...	30.15	46	E	7	0	30.24	+0.10	43	45	+1	E	1	0	2	bc.o.d.	48	43	0.05	
	North Foreland	30.22	46	E	5	og	30.29	+0.06	46	45	+2	SE	2	c	4	bc.og	48	39	0.10	
	London ...	30.26	45	E	3	og	30.31	+0.08	46	44	+4	NE	3	og	*	og.o.bc	46	42	—	
	Oxford ...	30.33	42	NE	4	0	30.35	+0.07	44	43	+3	NE	2	og	*	og.p	45	41	0.02	
	Cambridge ...	30.31	43	NNE	4	0	30.35	+0.05	45	44	+4	N	4	0	*	0	46	39	—	
FRANCE AND BELGIUM.	Yarmouth ...	30.26	45	NE	6	cqg	30.31	+0.02	47	45	+3	NE	5	bc	5	c.qg	47	43	0.01	
	Cuxhaven ...	30.22	37	SW	1	0	30.33	-0.04	36	36	-3	NNE	1	f	*	0	39	36	—	
	Berlin ...	30.20	32	2	0	b	30.30	-0.02	26	26	-2	S	1	f	*	b	36	25	—	
	Wiesbaden ...	30.25	35	2	0	b	30.35	+0.10	25	23	-7	2	0	f	*	0	35	23	—	
	Munich ...	29.98	30	NE	4	0	30.13	+0.14	28	28	0	NW	1	0	*	0	30	27	0.04	
	The Helder ...	30.25	42	WNW	1	c	30.36	-0.01	42	40	+3	ENE	2	c	2	c	45	37	—	
	Brussels (9 a.m.)	*	*	*	*	*	30.30	+0.12	29	28	+1	NE	3	b	*	b	38	27	—	
	Cape Gris Nez	30.14	41	E	6	b	30.21	+0.09	40	38	+3	SE	3	c	3	b	43	25	—	
	Paris ...	30.09	33	NE	2	b	30.22	+0.22	25	25	-6	NNE	2	b	*	b	39	25	—	
	Brest ...	30.05	45	E	4	b	30.14	+0.21	38	38	-1	E	4	b	3	b	48	32	—	
PENIN- SULA.	Lorient ...	30.05	37	E	5	b	30.14	+0.21	34	31	-2	ENE	6	b	3	b	39	32	—	
	Rochefort ...	29.97	38	E	4	b	30.14	+0.21	34	31	-2	ENE	6	b	3	b	39	32	—	
	Belfort ...	29.97	38	E	4	b	30.14	+0.21	34	31	-2	ENE	6	b	3	b	39	32	—	
	Lyons ...	29.95	37	WNW	1	0	30.12	+0.28	34	33	+1	N	1	0	*	0	38	33	—	
	Nice ...	29.98	40	E	1	c	30.16	+0.14	42	40	-7	E	2	b	3	c	37	41	0.16	
	Perpignan ...	29.82	49	NW	4	7	29.98	+0.39	46	44	+5	NW	2	bc	*	7	33	41	0.38	
	Biarritz ...	29.90	52	NW	5	7	29.96	+0.22	51	49	+10	WNW	2	0	2	7	52	4	0.49	
	Corunna ...	29.86	50	E	5	7	29.92	-0.14	52	51	+6	ENE	4	7	*	0.7	57	46	0.63	
	Lisbon ...	29.86	50	E	5	7	29.92	-0.14	52	51	+6	ENE	4	7	*	0.7	57	46	0.63	

For Explanation of Columns, see bottom of last page.

† Received too late for insertion in Charts on next page.



# WEATHER CHARTS

for 8 a.m. on Saturday, 11<sup>th</sup> Nov: 1893.

## 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:

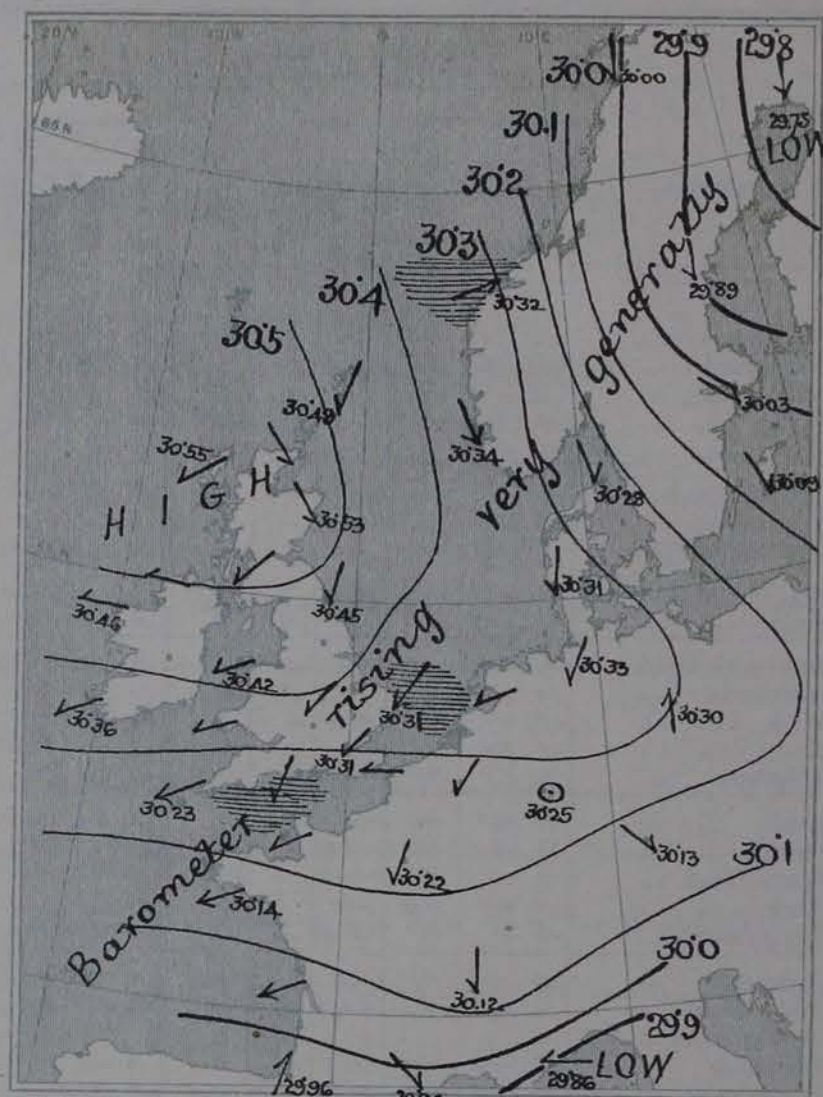
▨ = Rough. ▨ = High.

### MEAN HEIGHT OF THE BAROMETER

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

During the 20 Years 1871—1890.

STATIONS.	MEAN READINGS.
Sumburgh Head	29.683
Stornoway	29.699
Wick	29.722
Nairn	29.738
Aberdeen	29.758
Leith	29.789
Shields	29.813
Spurn Head	29.842
York	29.846
Loughborough	29.877
Ardrossan	29.791
Mullaghmore	29.780
Donaghadee	29.810
Holyhead	29.835
Liverpool	29.851
Parsonstown	29.847
Valencia	29.865
Roche's Point	29.865
Pembroke	29.864
Scilly	29.897
Prawle Point	29.914
Jersey	29.928
Hurst Castle	29.902
Dover	29.893
LONDON	29.898
Oxford	29.896
Cambridge	29.887
Yarmouth	29.865





# GENERAL SITUATION AT 8 A.M.

PRESSURE	Highest 30.5 ins. and upwards over Scotland. Lowest 29.8 ins. and less in the north of Sweden; 29.9 ins. and less in the southern parts of France, and the Spanish Peninsula.
TEMPERATURE	Gradients slight generally, but moderate over the S. <sup>th</sup> parts of Scandinavia. <i>Barometer rising in nearly all parts of W. Europe.</i> Highest (1) 52° at Lishon, 51° at Biarritz, and 46° at Perpignan; (2) 49° at Shields, Donaghadee, Holyhead and Rock's Point, and 48° at Malin Head. Lowest (1) 25° at Wiesbaden, 26° at Berlin, 28° at Munich, 29° at Brussels, and 31° at Rochester; (2) 31° at Haparanda, and 34° at Bodö. Since yesterday morning a slight rise has taken place over the greater part of the United Kingdom.
WIND	NE <sup>2</sup> or E <sup>2</sup> over England, Ireland, France and the Netherlands; light or moderate in force generally, but strong over the western parts of the Channel. Light from the NW <sup>2</sup> in the east of Scotland, and also in Scandinavia and Denmark.
WEATHER	Cloudy or overcast in most parts of the United Kingdom, as well as in the west of Norway, with rain at Aberdeen and Liverpool. Foggy in Germany; fine and bright over Denmark, the Netherlands & the greater part of France. A little rain fell yesterday at several of our eastern and southeastern stations.
SEA	Moderate or slight generally, but rather rough at Pwll Point and Yarmouth.

## PROBABLE CHANGES IN SYSTEM NOW PREVALENT

The gradients over our Islands are steadily decreasing, and the wind in the Channel seems likely to fall moderate; no other change is indicated at present.

## FORECASTS

For the 24 hours ending at NOON on 12<sup>TH</sup> NOV. 1893.

DISTRICTS.	FORECASTS.	DISTRICTS.	FORECASTS.
0 SCOTLAND NORTH	N <sup>2</sup> and NW <sup>2</sup> winds, light, cloudy, slight rain locally.	6 SCOTLAND WEST	Same as N <sup>o</sup> 2.
1 SCOTLAND EAST		7 ENGLAND N.W.	
2 ENGLAND N.E.	N <sup>2</sup> and NE <sup>2</sup> winds, light, cloudy, slight rain locally.	8 ENGLAND S.W.	E <sup>2</sup> and NE <sup>2</sup> winds, fresh, fair generally.
3 ENGLAND EAST	Same as N <sup>o</sup> 5.	9 IRELAND NORTH	E <sup>2</sup> and NE <sup>2</sup> winds, moderate, fair generally.
4 MIDLAND COUNTIES	Same as N <sup>o</sup> 2.	10 IRELAND SOUTH	
5 ENGLAND SOUTH	NE <sup>2</sup> winds, light or moderate, fair generally.	WARNINGS	At 10.30 am. to districts 7, 9 and 10. Lower Cone.

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. Direc.	F.	WEA.	SEA.		BAR.	THER.		WIND. Direc.	F.	WEA.	SEA.
		Dry.	Wet.							Dry.	Wet.				
Skudeanaes ...	30.32	45	44	NW	2	bc	2	Valencia ...	30.30	48	45	ENE	3	bc	0
Sumburgh Head ...	30.42	48	46	NW	2	b	3	Scilly ...	30.14	43	39	ENE	6	c	5
Stornoway ...	30.52	44	44	2	0	m	3	Jersey ...	30.04	47	43	E	6	bc	5
Aberdeen ...	30.48	45	42	NW	4	og	3	Hurst Castle ...	30.16	46	42	NE	7	bc	5
Shields ...	30.42	46	44	NNE	3	cf	4	Dungeness ...	30.11	45	42	ENE	7	bc	6
Ardrossan ...	30.49	42	41	NE	1	om	1	North Foreland ...	30.20	44	41	E	6	bc	7
Malin Head ...	30.48	44	41	E	2	0	1	London ...	30.24	46	41	ENE	4	0	*
Mullaghmore ...	30.48	44	41	E	2	0	1	Yarmouth ...	30.26	46	43	NE	6	c	5
Belmullet ...	30.43	45	40	E	3	0	*	Rochefort ...	29.86	40	37	ENE	4	0	*
Holyhead ...	30.36	46	42	E	4	c	4								

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

*Weather* cloudy or dull in most parts of our Islands and the Continent, with fog in Finland and central Germany, and with rain in the south of France, as well as at Christiansund and Brindisi. Fine and bright on some parts of our own south and south-west coasts, and also over the Netherlands and central Russia. Showers falling during day in the eastern and southeastern parts of St. Britain, and steady rain in the west of Norway.

*Temperature* fallen considerably in the south of Russia, and slightly over Germany, Austria and Italy, but risen in most other countries. Morning readings, highest, 71° at Malta, 68° at Spaa, 66° at Brindisi, and 64° at Palermo and La Caille; above 55° at most of the Mediterranean and Adriatic stations. Lowest 8° at Archangel, 14° at Kharkov, 15° at Uleaborg, and 16° at Kiew, below the freezing point over Germany, Austria and central France. Daily maxima over our Islands ranging in most places between 45° and 49°; thermometer remaining below 40° over central France, but exceeding 50° in the south of that Country.

*Wind* E<sup>ly</sup> or NE<sup>ly</sup> over England, Ireland, France, Germany, the Netherlands and northern Italy; strong in force over the Bay of Biscay and the west and south of our Islands, with a gale on the North coast. Light from the NW<sup>ly</sup> in the northeast of Scotland, and also over Scandinavia and the greater part of Russia. SW<sup>ly</sup> or W<sup>ly</sup> in the south of Italy; variable in Algeria. Wind moderating somewhat later on our western and southern coasts.

*Barometer* 30.5 ins. and upwards over Scotland; 30.3 ins. and upwards in an anticyclone covering the North Sea and all the more northern parts of our Islands, and extending eastwards in the form of a long band across N. Germany and Poland, to the southern parts of Russia. Lowest 29.3 ins. and less over Lapland; 29.6 ins. and less in a small depression over the Gulf of Lyons. Rise taking place over western Europe during day, and gradually decreasing over our southern coasts.

### EXPLANATION OF THE 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.

N.B.—The morning observations are made at 8 a.m. in the British Islands, Germany, Sweden, and Norway, 7 a.m. in France, Spain and Portugal, and 9 a.m. in Belgium. The evening observations are made at 6 p.m. in the British Islands (as a rule), and France, 8 p.m. at Oxford, in Sweden, Norway, and Germany, and 9 p.m. in Belgium. The time at each Station is the Standard Time of its Country.

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# DAILY WEATHER REPORT

for 8 a.m. on Sunday 12<sup>th</sup> November,

1893

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

STATIONS.	YESTERDAY EVENING. (See note at bottom of last page.)					THIS MORNING. (See note at bottom of last page.)										PAST 24 HOURS.			
	BAROM.	TEMP.	WIND.			BAROMETER.	SHADE TEMP.			WIND.						SHADE TEMP.			
	Reading at 32° F. and Sea Level.	Dry Bulb.	Dirac.	Force (0 to 12).	Weather.	Reading at 32° F. and Sea Level.	Change since Yesterday Morn.	Dry Bulb.	Wet Bulb.	Change in dry since Yesterday.	Dirac.	Force (0 to 12).	Weather.	Sea (0 to 9).		Weather.	Max.	Min.	Amount of Rainfall.
	Inch.	°.				Inch.	°.	°.	°.	°.							°.	inch.	
SCANDINAVIA.	Haparenda ...	29.94	14	NN	4	b	30.05	+ .30	5	5	-	26	Z	0	b	#	31	2	-
	Hernösand ...	30.09	36	Z	0	o	30.10	+ .21	39	38	-	3	Z	0	c	#	46	34	0.08
	Stockholm ...	30.19	39	Z	0	o	30.24	+ .21	40	36	+	1	W	2	b	#	46	34	-
	Wisby ...	30.22	44	NNW	4	be	30.29	+ .20	43	40	+	2	NNW	4	c	#	46	39	-
	Bodö ...	29.99	31	E	2	s	29.96	- .04	33	32	-	1	WSW	6	m	#	34	28	-
	Christiansund...	30.42	47	WNW	7	o	30.35	+ .03	43	42	-	4	W	8	r	4	47	43	0.04
	Skudesnaes ...	30.43	43	NNW	4	c	30.45	+ .11	42	41	-	0	NNW	2	o	2	46	41	-
	Christiania Fjord (Færd)	30.35	39	Z	0	b	30.37	+ .13	36	36	-	1	Z	0	f	1	46	36	-
	Skagen (The Scaw)	30.36	35	W	1	f	30.38	+ .10	39	39	-	1	W	1	m	0	46	30	0.04
	Fanö ...	30.39	40	Z	0	b	30.42	+ .11	43	42	+	12	W	2	c	#	46	30	-
BRITISH ISLANDS.	Sumburgh Head	30.52	44	Z	0	o	30.48	- .01	41	40	-	5	Z	0	o	1	46	38	0.04
	Stornoway ...	30.51	45	NE	2	o	30.46	- .09	43	43	-	2	Z	0	o	3	46	40	-
	Wick ...	30.55	44	NN	1	o	30.47	- .05	43	42	-	2	Z	0	o	0	45	40	-
	Nairn ...	30.54	45	Z	0	o	30.49	- .06	39	38	-	3	ESE	1	o	1	45	37	-
	Aberdeen ...	30.55	44	NNW	2	og	30.51	- .02	43	41	-	1	N	1	om	2	46	42	0.01
	Leith ...	30.52	44	NN	2	r	30.51	- .03	44	42	+	2	ENE	2	c	#	47	40	0.07
	Shields ...	30.46	47	NNE	3	a	30.47	+ .02	45	45	-	4	NE	2	d	4	49	44	0.10
	Spurn Head ...	30.40	47	ENE	3	om	30.42	+ .05	46	45	-	1	ENE	3	c	3	48	42	0.02
	York ...	30.45	46	ENE	1	o	30.47	+ .04	44	44	-	1	E	1	o	#	50	42	0.02
	Loughborough	30.42	46	NE	2	o	30.43	+ .03	43	42	-	2	ENE	1	cm	#	49	42	-
GERMANY & HOLLAND.	Ardrossan ...	30.50	46	NE	1	om	30.46	- .07	44	43	+	4	NE	2	om	1	48	39	-
	Malin Head ...	30.48	48	ESE	4	o	30.41	- .09	48	47	-	0	ESE	4	o	2	49	47	-
	Mullaghmore ...	30.44	47	E	3	o	30.33	- .13	45	43	-	1	E	2	c	#	52	43	-
	Belmullet ...	30.49	50	ENE	4	be	30.44	- .05	49	47	-	0	E	6	c	4	50	48	-
	Donaghadee ...	30.43	47	ENE	1	o	30.43	- .01	45	42	-	0	ENE	2	o	2	49	44	-
	Liverpool (Bidston)	30.36	48	ENE	2	o	30.38	- .04	43	42	-	6	E	1	be	2	31	42	-
	Holyhead ...	30.39	47	NN	1	o	30.38	- .05	43	42	-	0	SE	1	be	#	47	40	0.02
	Parsonstown ...	30.31	48	ENE	2	o	30.25	- .11	49	46	+	3	E	3	og	3	50	44	-
	Valencia ...	30.31	50	E	5	c	30.27	- .08	48	45	-	1	ESE	5	o	4	52	47	-
	Roche's Point	30.31	50	E	5	c	30.27	- .08	48	45	-	1	ESE	5	o	4	52	47	-
FRANCE AND BELGIUM.	Pembroke (St. Ann's Hd.)	30.31	48	ENE	3	c	30.30	- .06	43	41	-	3	E	4	eg	4	49	42	-
	Scilly ...	30.17	51	ENE	6	op	30.15	- .08	50	47	+	2	E	4	c	5	52	43	-
	Prawle Point ...	30.24	48	ENE	6	c	30.24	- .02	45	43	-	1	E	6	c	5	49	43	-
	Jersey (St. Aubin's)	30.21	44	E	5	b	30.23	+ .01	40	37	-	6	E	5	be	4	49	38	-
	Hurst Castle ...	30.39	47	ENE	6	eg	30.38	+ .05	42	40	-	4	ENE	6	b	4	50	40	-
	Dungeness ...	30.28	45	ENE	4	c	30.35	+ .11	40	38	-	5	ESE	5	b	4	47	38	-
	North Foreland	30.32	45	E	5	be	30.41	+ .12	42	39	-	4	E	5	bg	5	47	35	-
	London ...	30.33	46	ENE	3	c	30.37	+ .06	42	39	-	4	E	2	c	#	50	38	-
	Oxford ...	30.39	44	NE	2	c	30.41	+ .06	35	34	-	9	NE	2	b	#	51	33	-
	Cambridge ...	30.38	41	ENE	1	b	30.43	+ .08	33	30	-	12	ENE	1	b	#	52	32	-
PENINSULA.	Yarmouth ...	30.36	47	ENE	3	be	30.40	+ .09	44	42	-	3	E	4	b	4	49	42	-
	Cuxhaven ...	30.42	37	NNE	1	f	30.49	+ .16	37	37	+	1	WSW	1	f	#	38	36	-
	Berlin ...	30.40	32	W	2	f	30.45	+ .15	33	33	+	7	W	2	f	#	34	25	-
	Wiesbaden ...	*	*	*	*	*	30.43	+ .08	28	26	+	3	NE	1	f	#	36	25	-
	Munich ...	30.27	30	SE	3	o	30.34	+ .21	28	?	-	0	E	5	o	#	30	27	-
	The Helder ...	30.47	35	ESE	1	f	30.52	+ .16	33	33	-	9	SE	1	f	1	43	30	-
	Brussels (9 a.m.)	*	*	*	*	*	30.36	+ .06	28	26	-	1	ENE	5	b	#	29	25	-
	Cape Gris Nez	30.27	37	E	5	be	30.30	+ .09	30	29	-	10	ESE	5	b	4	43	25	-
	Paris ...	30.25	31	NE	2	b	30.29	+ .07	24	24	-	1	NE	2	b	#	29	24	-
	Brest ...	?	43	E	4	f	?	?	32	30	-	6	ENE	3	o	3	50	32	-
FRANCE AND BELGIUM.	Lorient ...	30.08	42	E	6	c	30.10	- .04	36	33	+	2	E	6	c	3	45	32	-
	Rochefort ...	30.07	40	ESE	5	o	30.04	?	35	33	+	4	E	5	c	#	43	31	-
	Belfort ...	30.17	36	NNW	1	o	30.20	+ .08	33	33	-	1	N	1	o	#	38	32	-
	Lycens ...	29.98	51	Z	0	b	30.08	+ .22	50	49	+	8	E	2	c	#	59	42	-
	Nice ...	30.01	50	Z	0	o	30.10	+ .11	47	45	+	1	W	1	o	#	59	46	-
	Perpignan ...	29.92	51	E	3	be	29.97	+ .01	43	42	-	8	SE	4	m	1	54	41	-
	Biarritz ...	29.92	51	E	3	be	29.97	+ .01	43	42	-	8	SE	4	m	1	54	41	-
	Corunna ...	*	*	*	*	*	29.89	- .03	61	60	+	9	S	5	o	#	64	52	0.51
	Lisbon ...	29.89	55	NE	3	b	29.79	- .03	61	60	+	9	S	5	o	#	64	52	0.51

For Explanation of Columns, see bottom of last page.

† Received too late for insertion in Charts on next page.



# WEATHER CHARTS

for 8 a.m. on Sunday, 12<sup>th</sup> Nov<sup>r</sup> 1893.

## BAROMETER, WIND AND SEA.

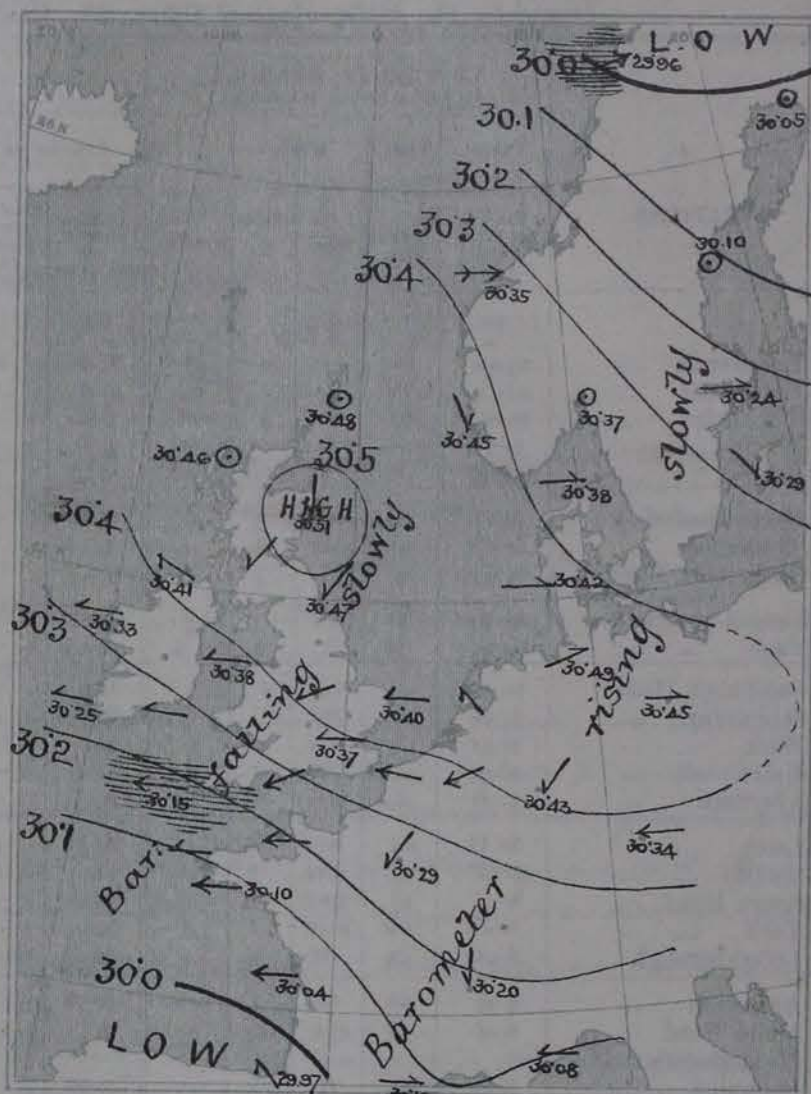
### EXPLANATION OF MAP.

**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 November.  
 During the 20 Years 1871—1890.

STATIONS.	MEAN READINGS.
Sunburgh Head	29.489
Stornoway	29.499
Wick	29.722
Nairn	29.738
Aberdeen	29.768
Leith	29.789
Shields	29.813
Spurn Head	29.842
York	29.846
Loughborough	29.877
Ardrossan	29.791
Mullaghmore	29.780
Donaghadee	29.810
Holyhead	29.835
Liverpool	29.851
Parsonstown	29.847
Valencia	29.865
Roche's Point	29.865
Pembroke	29.864
Scilly	29.807
Prawle Point	29.814
Jersey	29.828
Hurst Castle	29.802
Dover	29.893
LONDON	29.898
Oxford	29.896
Cambridge	29.887
Yarmouth	29.865



## 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.

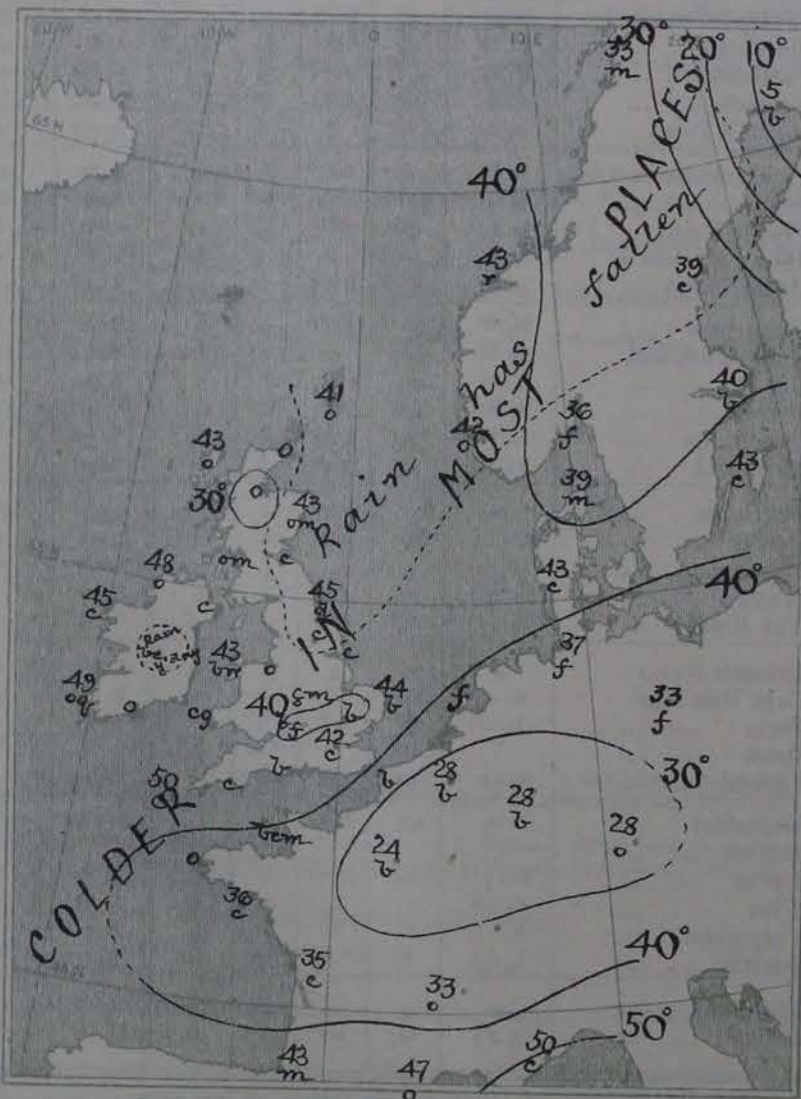
**RAINFALL**—A dotted line separates the districts in which rain has fallen from those where there has been none. Falls of 0.5 in. or more are quoted in figures.

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

(For the month of November.)

STATIONS.	TEMPERATURE.				RAINFALL. (Inches.)
	Daily Max.	Daily Min.	at 8 a.m.		
			Dry.	Wet.	
Sumburgh Head	45.6	37.8	42.0	40.3	4.16
Stornoway	46.2	37.0	41.7	40.7	4.79
Wick	46.1	36.1	41.4	39.8	2.93
Nairn	45.3	35.7	39.8	38.2	2.29
Aberdeen	46.2	36.5	40.5	38.7	3.14
Leith	48.1	37.0	41.2	40.0	2.20
Shields	47.3	37.9	42.1	40.5	2.01
Spurn Head	46.8	40.2	43.2	41.9	2.40
York	47.5	36.4	40.6	39.3	2.19
Loughborough	48.0	36.6	40.5	39.3	2.24
Ardrossan	47.8	39.1	43.1	41.3	3.88
Mullaghmore	49.6	41.2	45.1	43.1	4.48
Donaghadee	48.3	39.2	43.2	42.0	3.20
Holyhead	49.7	42.9	45.8	44.0	3.88
Liverpool	47.8	39.6	42.5	40.7	2.96
Parsonstown	49.1	37.1	41.9	40.2	2.83
Valencia	52.3	43.0	47.4	45.5	5.42
Roche's Point	51.1	42.0	46.1	44.5	4.62
Pembroke	50.1	43.8	46.9	45.1	4.04
Scilly	52.4	46.7	50.0	48.0	3.72
Prawle Point	51.1	41.9	46.2	44.7	3.20
Jersey	51.9	44.1	47.7	45.8	4.30
Hurst Castle	50.5	40.6	44.9	44.0	3.01
Dover	49.3	40.6	44.3	42.8	3.48
LONDON	49.3	38.0	42.2	40.8	2.23
Oxford	48.2	37.6	41.2	40.0	2.31
Cambridge	48.6	35.8	40.7	39.9	2.01
Yarmouth	47.5	39.0	43.1	42.0	3.06

NOTE.—The Temperature means are for the 20 years 1871-90, the Rainfall means are mainly those for the 25 years 1866-90.





# GENERAL SITUATION AT 8 A.M.

## PRESSURE

Highest, 30.5 ins. and upwards in the east of Scotland, 30.4 ins. and upwards over all the more northern and eastern parts of our Islands, the North Sea, Denmark & the greater part of Germany.  
 Lowest, 29.8 ins. and less, in a depression lying off the Portuguese coast; 30.0 ins. and less, over the north of Scandinavia.

Gradients moderate over the southwest of our Islands and the west of Norway, but slight elsewhere.

Barometer falling in all the more western parts of the United Kingdom, as well as in the west of Norway, but rising in most other parts of our area.

## TEMPERATURE

Highest (1) 61° at Lisbon, 50° at Nice, and 47° at Perpignan; (2) 50° at Killybegs, 40° at Danagladie, and Valmiera (Beland), and 48° at Malin Head & Roskilde Sound.

Lowest (1) 5° at Haparanda and 30° at Rodo; (2) 24° at Paris, 28° at Brussels, Wiesbaden, and Munich, and 30° at Cape Fré Noy.

During yesterday the thermometer rose to between 50° and 52° in many parts of Ireland and England; over Central France the daily maxima were below 40°.

## WIND

E over England, Ireland, France, the Netherlands and Western Germany; light or moderate in force generally, but strong at the Channel stations.  
 Calm in the north of Scotland, strong from the W. in the west of Norway, with a gale at Christiansund; calm in the north of Sweden, light from W. or N.W. in Denmark and the south of Sweden.

## WEATHER

Dull in the south of Ireland, the northern parts of Great Britain and the west of Norway, with rain at Christiansund.  
 Fair or fine in most other parts of Western Europe, but foggy in North Germany.

A little rain fell yesterday over Scandinavia and the northern parts of Great Britain.

## SEA

Rather rough in the western parts of the Channel and also at Rodo, but moderate to smooth elsewhere.

## PROBABLE CHANGES IN SYSTEM NOW PREVALENT

## FORECASTS

For the 24 hours ending at NOON on 13<sup>th</sup> Nov 1893.

DISTRICTS.	FORECASTS.	DISTRICTS.	FORECASTS.
0 SCOTLAND NORTH	None issued	6 SCOTLAND WEST	None issued.
1 SCOTLAND EAST		7 ENGLAND N.W.	
2 ENGLAND N.E.		8 ENGLAND S.W.	
3 ENGLAND EAST		9 IRELAND NORTH	
4 MIDLAND COUNTIES		10 IRELAND SOUTH	
5 ENGLAND SOUTH			
		WARNINGS	

At 7.15pm yesterday to districts 5, 8 and 10  
 "Hoist North Cone"

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. Direc.	F.	WEA.	SEA.		BAR.	THER.		WIND. Direc.	F.	WEA.	SEA.
		Dry.	Wet.							Dry.	Wet.				
Skudesnaes ...	30.42	46	44	WNW	4	0	2	Valencia ...	30.34	48	46	Z	0	0	1
Sumburgh Head	30.51	45	42	Z	0	0	2	Scilly ...	30.20	49	46	ENE	6	com	4
Stornoway ...	30.56	46	45	NE	2	0	3	Jersey ...	30.20	48	45	ENE	5	0	4
Aberdeen ...	30.54	46	44	NW	2	0	3	Hurst Castle	30.28	49	49	ENE	6	c	4
Shields ...	30.46	48	46	NNE	3	c	4	Dungeness...	30.27	46	44	E	4	be	3
Ardrossan ...	30.51	48	46	NE	1	om	0	North Foreland...	30.22	47	45	E	4	0	3
Malin Head ...	30.50	48	46	E	3	0	1	London ...	30.32	50	45	NE	2	c	*
Mullaghmore ...								Yarmouth ...	30.34	49	46	ENE	4	be	4
Belmullet ...	30.45	49	47	E	3	0	*	Rocheport ...	30.25	40	38	E	5	0	*
Holyhead ...	30.40	50	48	ENE	2	c	2								

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

Weather cloudy or overcast in most parts of our Islands and the Continent, with rain at Aberdeen and Liverpool, as well as at Madrid and Lisbon, and with snow at Moscow and Vienna. Foggy over North Germany, fine and bright over Denmark, the Netherlands, and the greater part of France. A little rain falling later over Scandinavia and the northern part of Great Britain, as well as at some of the Italian stations; sky clearing over Northern Russia.

Temperature rises in all but the central and southern countries. Morning readings highest 69° at Malta, 64° at Palermo, and 61° at Rhindisi and Algiers; above 50° at most of the Mediterranean and Adriatic stations, and above 45° in many parts of the United Kingdom. Lowest, (1) 14° at Arklow, 23° at Warsaw, 25° at Wiesbaden and Paris, and 26° at Berlin; (2) 26° at Archangel, and 28° at Uleaborg. Daily maxima below 40° over the central parts of France and Germany, but thermometer exceeding 50° at several of the English and Irish stations, and exceeding 60° over Spain and the south of Italy, the highest ~~being~~ of all being 70° at Palermo and Malta.

Wind E or NE over England, Ireland, the Netherlands, and the greater part of France and Spain; strong in force over the southern part of the Channel. N or NW over Scandinavia, Denmark, and the Baltic; W or SW at most of the Russian stations. Light from the NE in Austria and the extreme south of Russia; variable in Italy and Algeria. NW winds setting in later over Italy; no important change occurring elsewhere.

Barometer 30.5 ins. and upwards over Scotland. Lowest 29.0 ins. and less, in a deep depression over the extreme north of Russia; 29.8 ins. and less, in a shallow disturbance over the northern part of the Adriatic, and also in another shallow system over the Gulf of Genoa. Russian depression subsequently moving eastwards; disturbances over Southern Europe partially filling up.

### EXPLANATION OF THE 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.

N.B.—The morning observations are made at 8 a.m. in the British Islands, Germany, Sweden, and Norway, 7 a.m. in France, Spain and Portugal, and 9 a.m. in Belgium. The evening observations are made at 6 p.m. in the British Islands (as a rule), and France, 8 p.m. at Oxford, in Sweden, Norway, and Germany, and 9 p.m. in Belgium. The time at each Station is the Standard Time of its Country.

Subscriptions both for the Daily and Weekly Weather Reports may be paid, in advance, to the Meteorological Office.

TERMS: For Daily Weather Report, forwarded by Book Post, £1 0 0 per annum.

" Weekly " " " £1 10 0 "



# DAILY WEATHER REPORT

for 8 a.m. on MONDAY, 13<sup>TH</sup> NOVEMBER. 1893

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

STATIONS.	YESTERDAY EVENING. (See note at bottom of last page.)					THIS MORNING. (See note at bottom of last page.)										PAST 24 HOURS.			
	BAROM.	TEMP.	WIND.			BAROMETER.	SHADE TEMP.			WIND.						SHADE TEMP.			
	Reading at 32° F. and Sea Level.	Dry Bulb.	Dir.	Force (0 to 12).	Weather.	Reading at 32° F. and Sea Level.	Change since Yesterday Morn.	Dry Bulb.	Wet Bulb.	Change in dry since Yesterday.	Dir.	Force (0 to 12).	Weather.	Sea (0 to 9).		Max.	Min.	Amount of Rainfall.	
	In.	°				In.	°	°	°	°						°	°	In.	
SCANDINAVIA.	Haparanda ...	29.78	31	NW	2	0	29.51	-34	35	34	+20	SW	2	0	*	0	?	5	—
	Hernösand ...	30.08	41	S	4	bc	29.98	-15	42	38	+3	SW	2	bc	*	bc	45	34	—
	Stockholm ...	30.30	36	W	2	b	30.18	-06	37	35	-2	W	2	0	*	b	45	34	—
	Wisby ...	30.38	44	NW	7	b	30.27	-02	37	35	-6	NW	6	c	*	b	45	39	—
	Bodo ...	29.72	43	SW	8	T	29.61	-35	42	41	+9	NNW	8	0	5	T	48	32	0.47
	Christiansund...	30.28	44	WNW	8	0	30.12	-23	44	42	+1	WNW	9	T	4	0	45	45	0.08
	Skudesnaes ...	30.41	42	N	2	0	30.36	-09	39	38	-3	ENE	2	f	1	OT	?	?	—
	Christiania Fjord (Færder)	30.32	38	WNW	2	f	30.21	-16	38	38	-6	2	0	f	1	f	?	?	—
	Skagen (The Seaw)	30.24	42	WNW	1	f	30.23	-15	42	42	+8	W	2	0	0	f	43	36	—
	Fanø ...	30.43	45	W	4	0	30.40	-02	44	42	+1	W	1	0	*	f	50	43	—
BRITISH ISLANDS.	Sumburgh Head	30.39	43	W	1	0	30.22	-26	41	39	0	SW	1	0	1	0	44	40	—
	Stornoway ...	30.37	45	2	0	0	30.19	-27	42	41	-1	2	0	c	3	0	45	39	—
	Wick ...	30.39	38	2	0	c	30.19	-28	38	34	-8	W	2	0	1	c	44	34	—
	Nairn ...	30.41	37	2	0	0	30.23	-26	33	33	-6	2	0	0	1	0	39	27	—
	Aberdeen ...	30.43	43	SW	1	0	30.26	-25	43	41	0	SW	2	om	2	0	45	41	—
	Leith ...	30.44	44	E	1	c	30.24	-27	32	32	-12	2	0	b	*	c	45	31	—
	Shields ...	30.40	43	E	2	c	30.24	-25	37	40	+2	E	2	c	4	c	47	41	0.04
	Spurn Head ...	30.38	43	ENE	4	br	30.19	-28	47	48	+1	ENE	4	b	4	p. br	47	44	0.22
	York ...	30.40	43	E	1	c	30.22	-25	35	35	-9	E	1	f	*	c	48	32	0.01
	Loughborough	30.36	41	ENE	2	b	30.20	-28	32	32	-11	2	0	of	*	b	49	27	—
BRITISH ISLANDS.	Ardrossan ...	30.38	43	ENE	2	om	30.20	-26	37	36	-7	NE	2	bmw	1	om	45	35	—
	Malin Head ...	30.32	47	SE	4	omg	30.12	-29	41	40	-7	SE	4	b	2	omg	48	40	—
	Mullaghmore ...	30.28	44	E	2	bc	30.09	-34	40	39	-5	E	2	b	*	bc	49	38	—
	Belmullet ...	30.24	43	ENE	4	c	30.17	-27	46	44	-2	SE	5	c	3	c	53	44	—
	Liverpool (Bidston)	30.34	43	ENE	2	b	30.17	-26	39	37	-6	E	1	b	1	b	46	37	—
	Holyhead ...	30.30	44	E	4	b	30.09	-29	41	40	-2	E	4	br	3	b	48	40	—
	Parsonstown ...	30.28	41	?	1	b	30.10	-28	35	34	-8	2	0	b	*	b	50	34	—
	Valencia ...	30.14	47	E	4	cq	30.01	-24	46	44	-2	E	2	om	2	cq	51	44	—
	Roche's Point	30.17	43	E	5	c	29.98	-29	47	45	-1	ENE	5	0	4	c	49	46	—
	Pembroke (St. Ann's Rd.)	30.21	44	E	4	b	30.04	-26	42	41	-1	E	6	cq	5	b	47	39	—
BRITISH ISLANDS.	Scilly ...	30.05	50	E	7	c	29.93	-22	47	43	-2	ENE	5	c	4	c	52	42	—
	Prawle Point ...	30.13	45	ENE	6	bc	30.01	-28	45	43	0	E	5	c	4	bc	47	42	—
	Jersey (St. Aubin's)	30.12	41	ENE	5	bm	30.01	-22	37	35	-8	E	4	bm	4	bm	44	35	—
	Hurst Castle ...	30.23	43	ENE	6	b	30.07	-26	40	43	-2	E	4	m	4	b	45	40	—
	Dungeness ...	30.26	41	ENE	5	m	30.11	-24	40	37	0	SE	4	bc	3	b.m	40	38	—
	North Foreland	30.27	45	SE	7	b	30.11	-20	42	39	0	ENE	4	b	4	b	45	35	—
	London ...	30.29	40	E	2	b	30.14	-28	35	33	-7	E	1	b	*	bc. br	47	32	—
	Oxford ...	30.30	36	ENE	2	b	30.14	-27	31	31	-4	NE	2	f	*	b	47	31	—
	Cambridge ...	30.30	36	ENE	1	b	30.16	-27	32	30	-1	ENE	1	f	*	b	47	27	—
	Yarmouth ...	30.36	44	ENE	5	b	30.18	-22	46	43	+2	ENE	5	b	5	b	46	42	—
GERMANY & HOLLAND.	Cuxhaven ...	30.42	33	SW	1	f	30.45	-04	30	29	-7	SW	1	f	*	f	34	27	—
	Berlin ...	30.50	36	W	1	f	30.50	+05	32	32	-1	SE	2	f	*	f	37	32	—
	Wiesbaden ...	30.32	35	?	?	?	30.32	-11	29	28	+1	2	0	b	*	*	39	27	—
	Munich ...	30.35	27	E	5	0	30.29	-05	24	24	-4	SE	5	0	*	*	30	23	—
	The Helder ...	30.27	41	ENE	3	b	30.33	-19	33	33	0	ENE	2	f	2	b	41	?	—
	Brussels (9 a.m.)	30.21	35	?	?	?	30.21	-15	33	28	+2	ENE	1	b	*	b	38	28	—
	Cape Gris Nez	30.26	37	ENE	4	my	30.10	-20	30	29	0	SE	2	b	2	m	37	28	—
	Paris ...	30.22	30	ENE	2	b	30.09	-20	26	25	+2	ENE	2	b	*	b	37	24	—
	Brest ...	30.22	42	E	2	b	30.11	-20	35	35	+3	E	2	bc	3	b	38	32	—
	Lorient ...	30.02	41	E	6	b	29.91	-19	37	36	+1	E	5	0	2	b	45	34	—
FRANCE AND BELGIUM.	Rocheport ...	30.01	40	E	4	b	29.95	-09	41	47	+13	SE	2	0	*	b	52	32	—
	Belfort ...	30.20	38	N	1	b	30.15	-05	36	35	+3	E	1	m	*	0	41	31	—
	Lyons ...	30.17	37	NE	1	bc	30.21	+13	44	39	-6	E	1	bc	*	bc	41	32	—
	Nice ...	30.12	31	SE	2	0	30.04	-06	33	33	+6	SW	2	T	*	bc	36	45	0.28
	Perpignan ...	29.90	38	ENE	2	bc	29.90	-07	37	32	+14	SE	2	bc	0	bc	70	?	0.04
	Biarritz ...	29.90	38	ENE	2	bc	29.90	-07	37	32	+14	SE	2	bc	0	bc	70	?	0.04
	Corunna ...	29.92	64	SW	5	0	30.01	+22	64	61	+3	SW	4	b	*	0	66	61	0.04
	Lisbon ...	29.92	64	SW	5	0	30.01	+22	64	61	+3	SW	4	b	*	0	66	61	0.04
	Peninsula																		

For Explanation of Columns, see bottom of last page.

† Received too late for insertion in Charts on next page.



# WEATHER CHARTS

for 8 a.m. on Monday, 13<sup>th</sup> Nov<sup>r</sup> 1893.

## 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

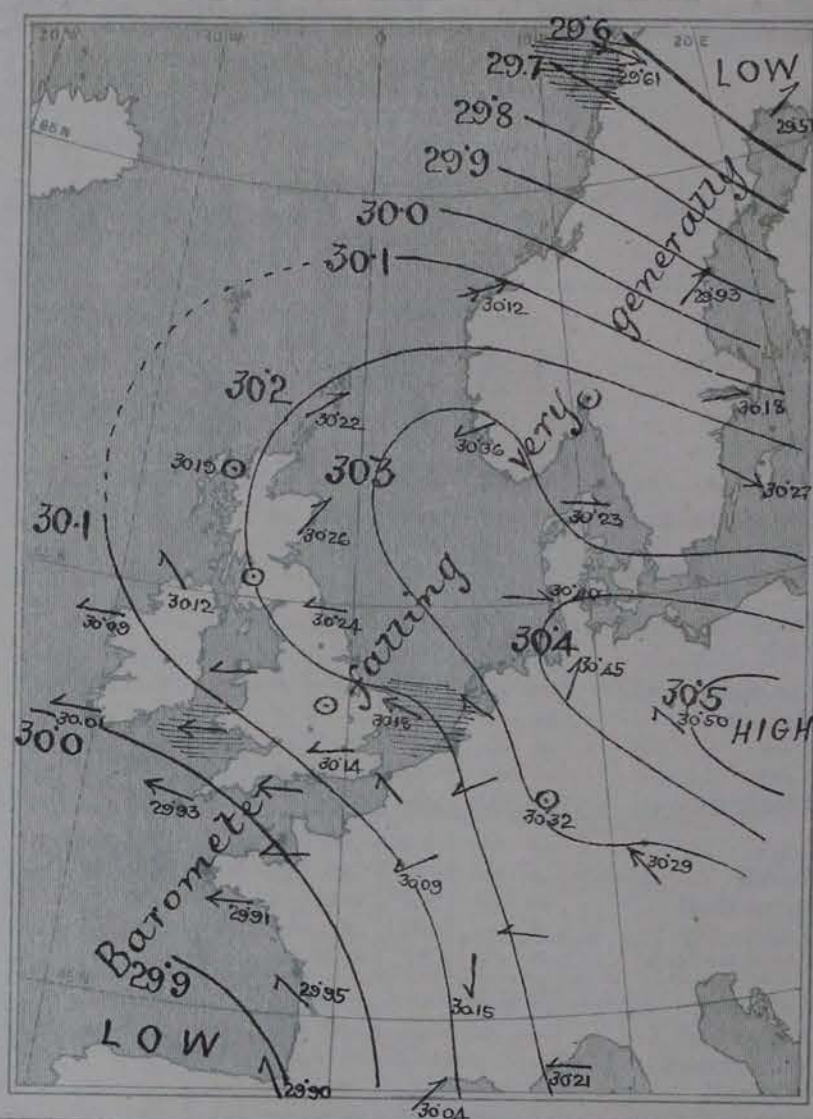
at 8.0 a.m. for the month of November.

During the 20 Years 1871—1890.

### STATIONS.

### MEAN READINGS.

STATIONS.	MEAN READINGS.
Sumburgh Head	29.083
Stornoway	29.609
Wick	29.722
Nairn	29.738
Aberdeen	29.758
Leith	29.780
Shields	29.813
Spurn Head	29.842
York	29.846
Loughborough	29.877
Ardrossan	29.701
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Donaghadee	29.810
Holyhead	29.835
Liverpool	29.851
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Valencia	29.865
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Prawle Point	29.914
Jersey	29.928
Hurst Castle	29.902
Dover	29.893
LONDON	29.898
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Cambridge	29.887
Yarmouth	29.865



## 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.

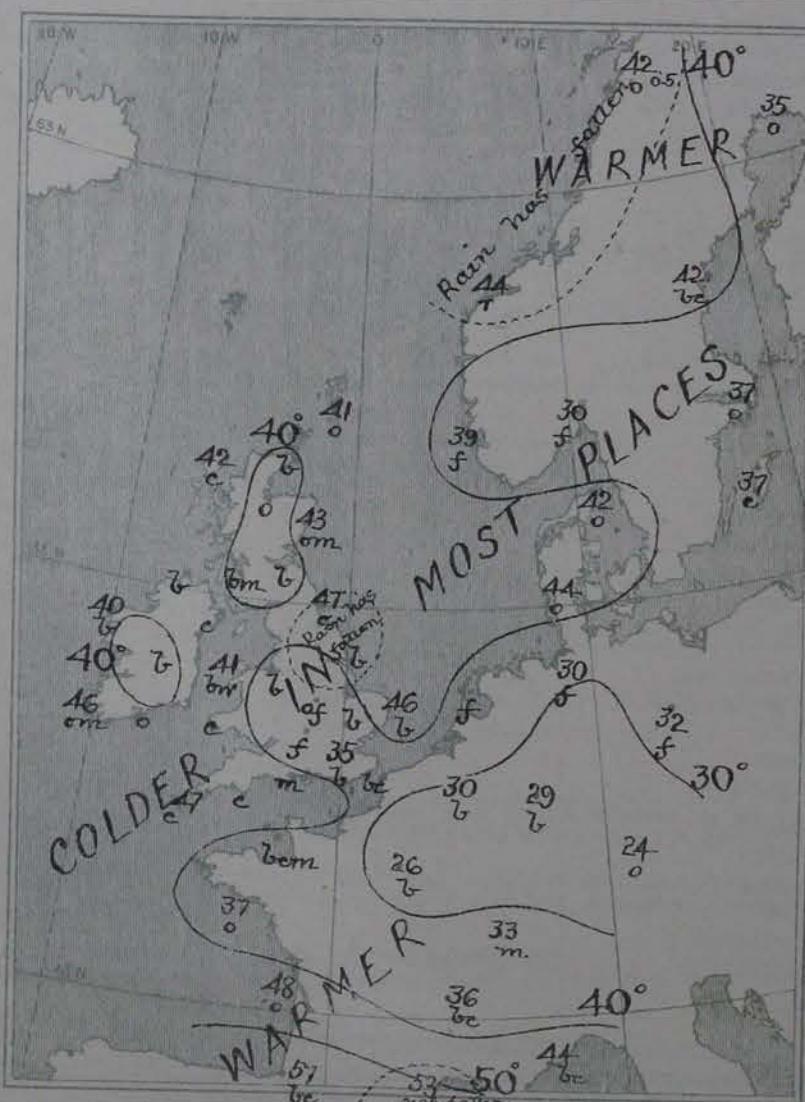
**RAINFALL**—A dotted line separates the districts in which rain has fallen from those where there has been none. Falls of 0.5 in. or more are quoted in figures.

## MEANS OF TEMPERATURE IN SHADE, AND RAINFALL.

(For the month of November.)

STATIONS.	TEMPERATURE.				RAINFALL. (Inches.)
	Daily Max.	Daily Min.	at 8 a.m. Dry.	Wet.	
Sumburgh Head	45.6	37.8	42.0	40.3	4.16
Stornoway	46.2	37.0	41.7	40.7	4.70
Wick	46.1	36.1	41.4	39.8	2.93
Nairn	45.3	35.7	39.8	38.2	2.29
Aberdeen	46.2	36.5	40.5	38.7	5.14
Leith	48.1	37.0	41.5	40.0	2.20
Shields	47.3	37.9	42.4	40.5	2.01
Spurn Head	46.8	40.2	43.2	41.9	2.46
York	47.5	36.4	40.6	39.3	2.10
Loughborough	48.0	36.6	40.5	39.3	2.24
Ardrossan	47.8	39.1	43.1	41.3	3.88
Mullaghmore	49.6	41.2	45.1	43.1	4.48
Donaghadee	48.3	39.2	43.2	42.0	3.20
Holyhead	49.7	42.9	45.8	44.0	3.88
Liverpool	47.8	39.6	42.5	40.7	2.96
Parsonstown	49.1	37.1	41.9	40.2	2.83
Valencia	52.3	43.0	47.4	45.5	5.42
Roche's Point	51.1	42.0	46.1	44.5	4.62
Pembroke	50.1	43.8	46.9	45.1	4.04
Scilly	52.4	46.7	50.0	48.0	3.72
Prawle Point	51.1	41.9	46.2	44.7	3.20
Jersey	51.9	44.1	47.7	45.8	4.30
Hurst Castle	50.5	40.6	44.0	44.0	3.01
Dover	49.3	40.6	44.3	42.8	3.48
LONDON	49.3	38.0	42.2	40.8	2.23
Oxford	48.2	37.6	41.2	40.0	2.31
Cambridge	48.6	35.8	40.7	39.0	2.01
Yarmouth	47.5	39.0	43.1	42.0	3.06

NOTE.—The Temperature means are for the 20 years 1871-90, the Rainfall means are mainly those for the 25 years 1866-90.





# GENERAL SITUATION AT 8 A.M.

## PRESSURE

Highest, 30.50 in: at Berlin; 30.3 in: and upwards over nearly the whole of Germany, Denmark, and the North Sea.  
 Lowest, 29.6 in: and less, in a depression over the north of Scandinavia; 29.8 in: and less, in a shallow system over the Bay of Biscay.  
 Gradients steep over the northern parts of Scandinavia, but slight elsewhere.  
 Barometer falling generally; — most in the extreme north.

## TEMPERATURE

Highest, 64° at Lisbon, 57° at Biarritz, 48° at Rochefort, and 47° at Shields, Spurn Hd., Roker Point and Seilly.  
 Lowest, 24° at Munich, 26° at Paris, 29° at Wiesbaden, 30° at Brussels and Copenhagen, and 31° at Oxford.  
 Frost occurred last night in many parts of Great Britain; in London the thermometers on the grass fell to 23°.

## WIND

E<sup>2</sup> or SE<sup>3</sup> over Ireland, England, France, and the Netherlands; light or moderate in force generally, but fresh or strong on our extreme southwest coasts.  
 Light from the W<sup>2</sup> or SW<sup>2</sup> in the north and east of Scotland, as well as in Sweden; strong to a gale from the W<sup>2</sup> in the west of Norway.

## WEATHER

Fine in many parts of Western Europe, but foggy over Central England, Holland, North Germany, and the south of Norway, and dull in the south of Ireland, the east of Scotland, and the northern parts of Scandinavia, with rain at Christianund, rain is also falling at Biarritz.  
 Showers fell yesterday in the northeast of England.

## SEA

Moderate to smooth generally, but rather rough at Poole, Pembroke, and Yarmouth.

## PROBABLE CHANGES IN SYSTEM NOW PREVALENT

A gradual change in the distribution of pressure is now in progress, and the conditions are becoming favourable for the passage of depressions along our western and northern coasts. No immediate alteration in the weather is, however, probable over England.

## FORECASTS

For the 24 hours ending at NOON on 14<sup>th</sup> November, 1893.

### DISTRICTS.

### FORECASTS.

0	SCOTLAND NORTH	SW <sup>2</sup> and W <sup>2</sup> winds, moderate, cloudy, rain locally.
1	SCOTLAND EAST	SW <sup>2</sup> winds, light; fair generally.
2	ENGLAND N.E.	E <sup>2</sup> and SE <sup>2</sup> winds, light; fair generally.
3	ENGLAND EAST	E <sup>2</sup> winds, light or moderate; fine generally.
4	MIDLAND COUNTIES	
5	ENGLAND SOUTH	

### DISTRICTS.

### FORECASTS.

6	SCOTLAND WEST	Same as Nos 3 to 5.
7	ENGLAND N.W.	
8	ENGLAND S.W.	E <sup>2</sup> winds, fresh; fair generally.
9	IRELAND NORTH.	E <sup>2</sup> and SE <sup>2</sup> winds, fresh; fair generally.
10	IRELAND SOUTH	
WARNINGS		At 10.20 am to districts 5, 8, and 10 "Lower Cone".

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.	P.	WEA.	SEA.		BAR.	THER.		WIND.	P.	WEA.	SEA.
		Dry.	Wet.	Dirac.						Dry.	Wet.	Dirac.			
Skudsmoes ...	30.46	44	41	N	2	0	1	Valencia ...							
Sumburgh Head ...								Scilly ...							
Stornoway ...	30.43	45	45	S	2	0	3	Jersey ...	30.16	43	38	ENE	5	bm	4
Aberdeen ...								Hurst Castle ...							
Shields ...								Dungeness ...	30.27	43	40	ESE	5	f	4
Ardrossan ...								North Foreland ...							
Malin Head ...	30.36	43	46	SE	4	0m	2	London ...							*
Mullaghmore ...								Yarmouth ...							
Belmullet ...	30.30	43	44	ESE	3	bc	*	Rocheport ...	29.95	44	44	E	4	b	*
Holyhead ...	30.35	43	44	E	2	f									

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

*Weather in morning fine and bright over France, western Germany and the south of our Islands, as well as over the Baltic Provinces and northern half of Russia, very foggy over the south, east and north of Germany, cloudy or overcast elsewhere. Considerable rain falling in the northwest of Norway later and small quantities in the northeast of England; continuing dry elsewhere, foggy over N. Germany, hazy in many parts of our Islands.*

*Temperature fallen a little over western Europe, risen somewhat over Germany. Morning readings, highest, 50° and more in the extreme south only; exceeding 40° at most of the stations in our Islands and on the eastern shores of the North Sea and the southern shores of the Baltic. Lowest (1) 5° at Haparanda, 12° at Archangel, 15° at St. Petersburg; (2) 23° at Kharkov, 24° at Odessa and Nidalaiff, 27° at Kief; (3) 23° at Prague, 25° at Vienna, 26° at Lemberg (4) 33° at Cambridge, 35° at Oxford. Rising to between 44° and 50° over the greater part of our Islands later, and touching 51° at Valencia, 52° at Scilly and Rocheport, 66° at Lisbon, and 70° at Biarritz.*

*Wind (1) W<sup>2</sup> to NW<sup>2</sup> over Scandinavia, the Baltic and Russia generally; (2) E<sup>2</sup> over the British Islands, the Channel and Bay of Biscay, N<sup>2</sup> to NE<sup>2</sup> over France; (3) very light and variable over the North Sea and Germany. A S<sup>2</sup> breeze reported at Lisbon and over Algeria. Very little change later.*

*Barometer 30.5 ins and more to 30.3 ins, in a large anticyclone covering the greater part of our Islands, the North Sea, Germany, Denmark and the S<sup>th</sup> half of Norway. Lowest 29.5 ins. and less over the N.E. of Russia; 29.8 ins. & less over Portugal and the neighbouring parts of the Atlantic, and below 29.9 ins over Asia minor. Falling generally over the United Kingdom, France and Scandinavia during the day, rising slightly at Lisbon.*

## SUMMARY OF CHANGES IN THE WEATHER OVER THE BRITISH ISLANDS AND THEIR NEIGHBOURHOOD FROM THE 5<sup>TH</sup> TO 11<sup>TH</sup> NOV. 1893.

*The weather of last week was cool and unsettled, with frequent showers in the eastern parts of the United Kingdom, and with occasional showers in most districts. Snow or sleet was experienced in the northern parts of Great Britain on the 5<sup>th</sup> and 6<sup>th</sup>, and thunder and lightning occurred at some of our southern and south-eastern stations on the 6<sup>th</sup> and 7<sup>th</sup>.*

*At the beginning of the period a small depression which had appeared over Scotland was occasioning N<sup>2</sup> or NE<sup>2</sup> gales on our extreme northern coasts, with heavy rain in Caithness. The disturbance soon passed away, however, across the North Sea, while a large anticyclone spread over the northern parts of our Islands from the Atlantic. The wind in the north consequently subsided and NE<sup>2</sup> or E<sup>2</sup> breezes set in over England and Ireland. On the 9<sup>th</sup> and 10<sup>th</sup> a gradual increase in the force of the latter currents was occasioned by a large depression which advanced over Spain and the western parts of the Mediterranean, and in the Channel and southeast of England a moderate to strong gale was experienced. At the close of the week, however, the depression partially dispersed and the gale steadily subsided.*

*Temperature was below the average until quite the close of the period, the daily maxima being frequently below 45° on all but our extreme south and south-west coasts. Sharp frosts were experienced over the inland parts of England and Ireland during the early part of the week.*

## EXPLANATION OF THE 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.

N.B.—The morning observations are made at 8 a.m. in the British Islands, Germany, Sweden, and Norway, 7 a.m. in France, Spain and Portugal, and 9 a.m. in Belgium. The evening observations are made at 6 p.m. in the British Islands (as a rule), and France, 8 p.m. at Oxford, in Sweden, Norway, and Germany, and 9 p.m. in Belgium. The time at each Station is the Standard Time of its Country.

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# DAILY WEATHER REPORT

for 8 a.m. on TUESDAY. 14<sup>TH</sup> NOVEMBER. 1893

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

STATIONS.		YESTERDAY EVENING. (See note at bottom of last page.)						THIS MORNING. (See note at bottom of last page.)										PAST 24 HOURS.				
		BAROM.		TEMP.		WIND.		BAROMETER.		SHADE TEMP.			WIND.				SHADE TEMP.		Amount of Rainfall.			
		Reading at 32° F. and Sea Level.	Dry Bulb.	Direc.	Force (0 to 12).	Weather.	Reading at 32° F. and Sea Level.	Change since Yester- day's Mora.	Dry Bulb.	Wet Bulb.	Change in dry since Yesterday.	Direc.	Force (0 to 12).	Weather.	Sea (0 to 9).	Weather.	Max.	Min.				
		Ina.	°				Ina.	°	°	°								°	ins.			
SCANDINAVIA.	Haparanda ...	29.55	36	W	2	0	29.57	-12	33	32	-2	WNW	2	c	*	0	37	30	—			
	Hernösand ...	29.89	42	W	2	0	29.70	-23	33	31	-9	2	0	f	*	0	30	23	—			
	Stockholm ...	30.10	39	W	2	0	29.98	-23	33	35	0	WNW	2	0	*	0	41	32	—			
	Wisby ...	30.18	39	WNW	6	0	30.04	-23	33	36	0	WNW	4	0	*	0	45	37	—			
	Bodö ...	29.50	41	WNW	8	7	29.39	-22	36	35	-6	W	8	m	5	7	40	34	0.51			
	Christiansund...	29.95	45	WNW	9	0	29.72	-40	43	41	-1	WNW	8	7	6	0	46	43	—			
	Skudesnaes ...	30.19	40	SE	2	0	29.98	-43	42	40	-2	SE	2	0	2	0	2	29	—			
	Christiania Fjord (Færdet)	30.10	31	WNW	2	f	29.96	-25	30	29	0	2	0	m	4	f	32	27	—			
	Skagen (The Seaw)	30.13	42	W	4	0	29.98	-25	42	33	0	WNW	2	0	0	0	45	37	—			
	Fanö ...	30.21	37	SE	4	0	29.98	-42	32	31	-1	SE	2	m	*	0	46	30	—			
BRITISH ISLANDS.	Sumburgh Head	30.04	39	2	0	C	29.79	-43	38	37	-2	2	0	f	1	0.0	44	25	—			
	Stornoway ...	30.03	41	2	0	C	29.88	-36	38	37	-4	2	0	bc	3	bc.c	46	30	—			
	Wick ...	30.05	34	WNW	3	f	29.81	-38	37	37	-8	WNW	1	bc	1	f	40	26	—			
	Nairn ...	30.06	33	2	0	f	29.88	-38	30	30	-8	WNW	1	f	1	f	33	27	—			
	Aberdeen ...	30.09	44	SE	2	bc	29.84	-42	40	38	-2	WNW	2	0	3	c.bc	47	39	—			
	Leith ...	30.05	41	2	0	C	29.82	-42	39	37	-7	WNW	1	om	*	c	49	31	—			
	Shields ...	30.05	47	E	2	bc	29.81	-43	40	38	-7	WNW	2	0	3	bc	50	38	—			
	Spurn Head ...	29.99	46	SE	4	0	29.86	-33	38	37	-9	WNW	2	0	3	c.0	48	37	—			
	York ...	30.05	43	E	1	C	29.86	-36	37	36	-2	SE	1	0	*	c	51	34	—			
	Loughborough	30.03	32	E	1	f	29.90	-30	25	25	-7	WNW	1	of	*	f	49	21	—			
GERMANY & HOLLAND.	Ardrossan ...	30.01	41	NE	2	bzn	29.84	-36	38	37	+1	NE	1	omw	1	bzn	45	34	—			
	Malin Head ...	30.00	41	SE	2	f	29.84	-28	44	42	+2	W	1	om	0	f	47	41	—			
	Mullaghmore ...	29.98	39	SE	2	f	29.86	-23	46	40	+6	SE	2	0	*	f	46	37	—			
	Belmullet ...	30.00	40	SE	5	C	29.83	-34	47	48	+1	E	4	C	3	C	49	43	—			
	Donaghadee ...	29.98	39	SE	2	f	29.86	-23	46	40	+6	SE	2	0	*	f	46	37	—			
	Liverpool (Bldston)	30.00	41	ENE	1	0	29.86	-31	32	32	-7	ENE	1	f	1	0	44	32	—			
	Holyhead ...	29.96	41	2	0	bzn	29.84	-25	42	42	+1	2	0	mg	0	b.bzn	45	39	—			
	Parsonstown ...	29.97	41	2	0	0	29.86	-24	40	39	+5	WNW	1	0	*	0	46	35	—			
	Valencia ...	29.91	47	2	0	om	29.88	-18	46	46	0	NE	1	om	1	c.om	49	44	0.01			
	Roche's Point	29.91	45	ENE	5	og	29.82	-16	45	45	-2	NE	3	og	4	og	49	44	0.06			
FRANCE AND BELGIUM.	Pembroke (St. Ann's Hd.)	29.94	42	E	3	C	29.83	-21	48	42	+1	ENE	2	omg	3	C	43	39	—			
	Scilly ...	29.86	51	ENE	4	0	29.70	-20	34	32	+7	ENE	4	m	5	cm.0	34	43	—			
	Prawle Point ...	29.92	46	E	3	C	29.80	-21	49	49	+4	E	2	f	1	cm	49	45	—			
	Jersey (St. Aubin's)	29.92	44	ENE	3	bzn	29.83	-18	51	50	+14	SE	4	adm	3	bc.bzn	51	36	0.02			
	Hurst Castle ...	29.97	44	E	4	f	29.85	-22	43	43	+3	ENE	2	of	2	omg.b	45	38	—			
	Dungeness ...	29.98	42	SE	2	f	29.86	-25	41	41	+1	N	1	m	1	f	48	37	—			
	North Foreland	30.00	42	ENE	3	f	29.89	-22	44	43	+2	NE	1	f	2	f	44	41	—			
	London ...	29.99	36	ENE	2	m	29.89	-25	37	36	+2	E	1	f	2	bc.f	46	31	—			
	Oxford ...	29.89	30	2	0	f	29.88	-26	31	30	0	2	0	f	*	bc.f	43	24	—			
	Cambridge ...	30.02	36	E	1	f	29.89	-27	33	33	+1	E	1	f	*	f	46	29	—			
PENINSULA.	Yarmouth ...	30.02	44	SE	5	f	29.87	-31	38	37	-8	SEW	2	bc	3	f	47	36	—			
	Cuxhaven ...	30.30	31	SE	3	f	29.99	-46	32	32	+2	SE	2	f	*	f	32	30	—			
	Berlin ...	30.32	32	E	3	0	30.08	-42	29	28	-3	SE	2	f	*	f	36	28	—			
	Wiesbaden ...	30.18	27	SE	3	0	30.12	-17	26	26	+2	SE	3	f	*	0	32	24	—			
	Munich ...	30.12	35	ENE	3	f	29.95	-38	32	31	-1	SE	1	f	1	f	36	30	—			
	The Helder ...	30.12	35	ENE	3	f	29.95	-38	32	31	-1	SE	1	f	1	f	36	30	—			
	Brussels (9 a.m.)	*	*	*	*	*	29.97	-24	33	33	+9	SE	2	0	*	b.T	44	30	—			
	Cape Gris Nez	29.98	36	SE	2	m	29.88	-22	43	42	+13	2	2	f	2	m	43	2	—			
	Paris ...	30.02	39	SE	2	C	29.98	-11	36	35	+10	SE	1	0	*	C	48	26	—			
	Brest ...	2	31	SE	2	m	29.98	2	34	34	+19	SE	2	m	4	m	2	35	—			
GERMANY & HOLLAND.	Lorient ...	29.90	2	E	2	2	29.77	-14	36	36	+19	2	5	T	4	2	2	36	0.04			
	Rocheport ...	29.93	32	SE	2	C	29.96	+01	31	31	+3	SE	3	0	*	0.0	37	48	0.08			
	Belfort ...	29.92	38	E	1	m	29.92	0	33	33	0	WNW	1	f	*	m	41	30	—			
	Lyons ...	30.12	44	E	1	T	30.10	-05	43	43	+7	2	1	bc	*	T	30	36	0.04			
	Nice ...	30.16	50	E	2	T	30.08	-18	48	44	+4	E	2	0	3	T	35	44	0.24			
	Perpignan ...	30.04	36	E	2	T	30.12	+08	32	32	-1	NE	2	T	*	T	62	57	1.34			
	Biarritz ...	29.92	62	WNW	2	0	29.97	+07	36	30	-1	SE	2	bc	1	0	68	30	—			
	Corunna ...	30.10	*	*	*	*	30.07	+06	60	60	-4	WNW	4	T	*	0	64	60	0.35			
	Lisbon ...	30.10	63	WNW	3	0	30.07	+06	60	60	-4	WNW	4	T	*	0	64	60	0.35			

For Explanation of Columns, see bottom of last page.

† Received too late for insertion in Charts on next page.



# WEATHER CHARTS

for 8 a.m. on Tuesday, 14<sup>th</sup> Nov. 1893.

## 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:

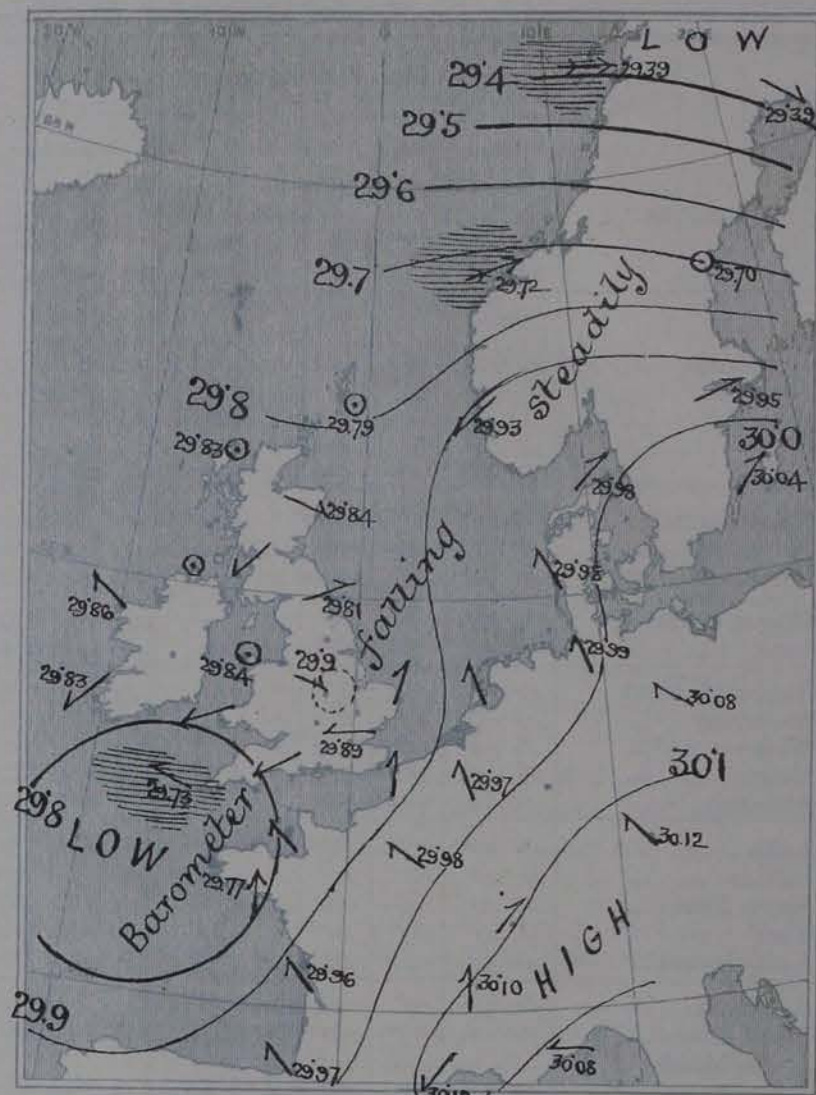
☼ = Rough; ☼ = High.

### MEAN HEIGHT OF THE BAROMETER

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

During the 29 Years 1871—1890.

STATIONS.	MEAN READINGS.
Sumburgh Head	29.683
Stornoway	29.699
Wick	29.722
Nairn	29.738
Aberdeen	29.758
Leith	29.789
Shields	29.813
Spurn Head	29.842
York	29.848
Loughborough	29.877
Ardrossan	29.791
Mullaghmore	29.780
Donaghadee	29.810
Holyhead	29.835
Liverpool	29.851
Parsonstown	29.847
Valencia	29.865
Roche's Point	29.865
Pembroke	29.864
Scilly	29.897
Prawle Point	29.914
Jersey	29.928
Hurst Castle	29.902
Dover	29.893
LONDON	29.898
Oxford	29.896
Cambridge	29.887
Yarmouth	29.865



## 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.

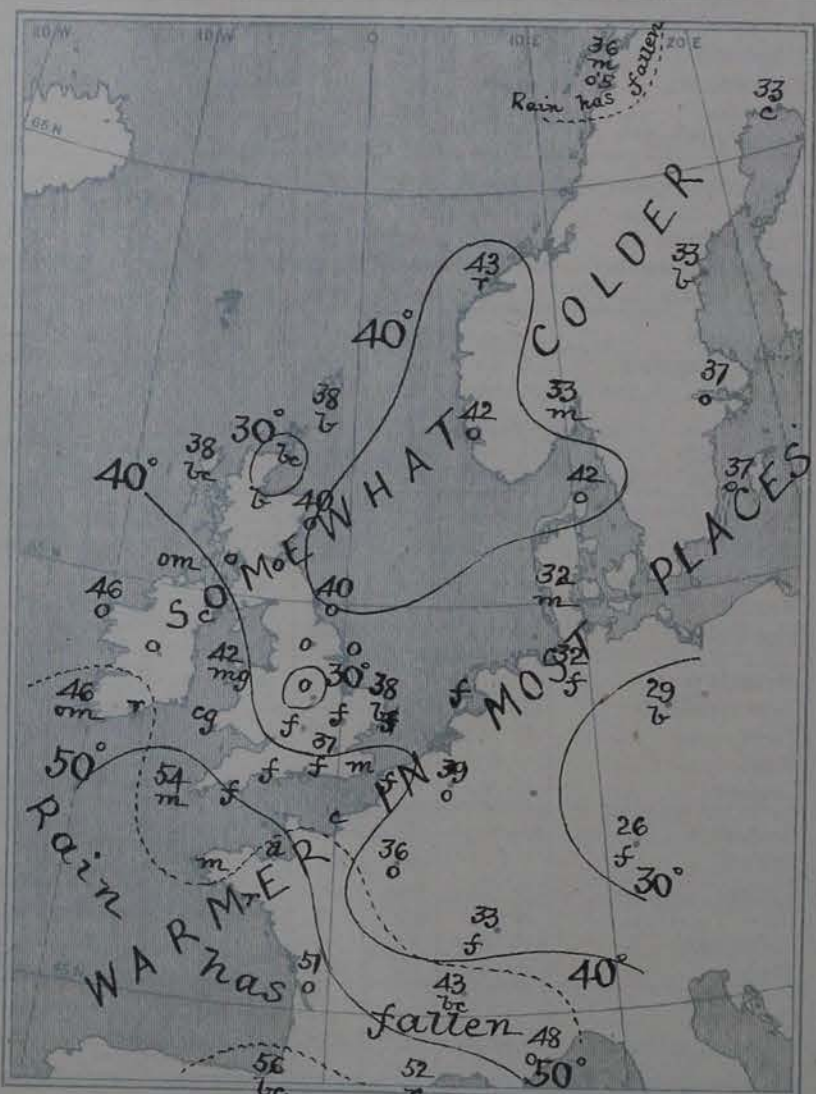
**RAINFALL**—A dotted line separates the districts in which rain has fallen from those where there has been none. Falls of 0.5 in. or more are quoted in figures.

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

(For the month of November.)

STATIONS.	TEMPERATURE.				RAINFALL. (Inches.)
	Daily Max.	Daily Min.	at 8 a.m.		
			Dry.	Wet.	
Sumburgh Head .....	45.6	37.8	42.0	40.3	4.16
Stornoway .....	46.2	37.0	41.7	40.7	4.70
Wick .....	46.1	36.1	41.4	39.8	2.03
Nairn .....	45.3	35.7	39.8	38.2	2.29
Aberdeen .....	46.2	36.5	40.5	38.7	3.14
Leith .....	48.1	37.0	41.7	40.0	2.20
Shields .....	47.3	37.9	42.1	40.5	2.61
Spurn Head .....	46.8	40.2	43.2	41.9	2.40
York .....	47.5	36.4	40.6	39.3	2.10
Loughborough .....	48.0	36.6	40.5	39.3	2.24
Ardrossan .....	47.8	39.1	43.1	41.3	3.88
Mullaghmore .....	49.6	41.2	45.1	43.1	4.48
Donaghadee .....	48.3	39.2	43.4	42.0	3.20
Holyhead .....	49.7	42.9	45.8	44.0	3.88
Liverpool .....	47.8	39.6	42.5	40.7	2.96
Parsonstown .....	49.1	37.1	41.9	40.2	2.83
Valencia .....	52.3	43.0	47.4	45.5	5.42
Roche's Point .....	51.1	42.0	46.1	44.5	4.62
Pembroke .....	50.1	43.8	46.9	45.1	4.04
Scilly .....	52.4	46.7	50.0	48.0	3.72
Prawle Point .....	51.1	41.9	46.2	44.7	3.20
Jersey .....	51.9	44.1	47.7	45.8	4.30
Hurst Castle .....	50.5	40.0	44.9	44.0	3.01
Dover .....	49.3	40.6	44.3	42.8	3.48
LONDON .....	49.3	38.0	42.2	40.8	2.23
Oxford .....	48.2	37.6	41.2	40.0	2.31
Cambridge .....	48.6	35.8	40.7	39.9	2.01
Yarmouth .....	47.5	39.0	43.1	42.0	3.06

NOTE.—The Temperature means are for the 29 years 1871-90, the Rainfall means are mainly those for the 25 years 1866-90.





# GENERAL SITUATION AT 8 A.M.

## PRESSURE

Highest, 30.1 in. and more over Germany, France, and Spain.

Lowest, 29.4 in. and less, over Lapland, and below 29.8 in. in a depression lying off the mouth of the English Channel.

Gradients very slight over our Islands, moderate for W. winds over Scandinavia.

Barometer rising over Spain and the southwest of France, falling elsewhere, but not rapidly.

## TEMPERATURE

Highest, 60° at Lisbon, 50° to 56° over the southern part of France, and above 40° on the south and west coast of our Islands.

Lowest, (1) 25° at Loughborough, 31° at Oxford, 33° at Cambridge; (2) 26° at Munich, 29° at Berlin, 33° at Drefort; (3) 33° at Haparanda and Helsingfors.

The minima during the night were very low in the northeast of Scotland, and over the south midland counties of England. The thermometer has since risen decidedly.

## WIND

Blowing a gale from WSW. over the northern half of Norway, light and extremely variable over Sweden and the British Islands, moderate from SE. at the mouth of the Channel, and light from the same quarter in Denmark and over the Bay of Biscay.

## WEATHER

Fine in several parts of Scotland, unusually misty or foggy and damp elsewhere, rain at Lorient and Jersey, as well as at Perpignan.

Some rain fell was measured on our southwest coasts and the coasts of Brittany this morning, about a quarter of an inch at Nice, and 1.3 in. at Perpignan; 0.5 in. was measured at Bodo.

## SEA

Rough on the Norwegian coast, rather so at Sully, moderate at many of our southwestern stations, slight or smooth elsewhere.

## PROBABLE CHANGES IN SYSTEM NOW PREVALENT

The weather is likely to become milder, but damp over the southern half of England, and to be foggy and cold in the north.

## FORECASTS

For the 24 hours ending at NOON on 15<sup>th</sup> November, 1893.

### DISTRICTS.

### FORECASTS.

0 SCOTLAND  
NORTH

1 SCOTLAND  
EAST

2 ENGLAND  
N.E.

3 ENGLAND  
EAST

4 MIDLAND  
COUNTIES

5 ENGLAND  
SOUTH

Varying W<sup>ly</sup> airs and Calms; very changeable, fog and wet mist at times.

Same as No 5

E<sup>ly</sup> airs and Calms; cold, foggy, damp, some bright intervals.

Calms and SE<sup>ly</sup> to S<sup>ly</sup> breezes, light; misty, damp, perhaps rain.

### DISTRICTS.

### FORECASTS.

6 SCOTLAND  
WEST

7 ENGLAND  
N.W.

8 ENGLAND  
S.W.

9 IRELAND  
NORTH

10 IRELAND  
SOUTH

Same as Nos 0 to 2

Same as Nos 9 and 10.

SE<sup>ly</sup> to NE<sup>ly</sup> breezes, light; dull, misty, rainy.

Variable airs and Calms; misty at first, finer later

### 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. Direc.	F.	WEA.	SEA.		BAR.	THER.		WIND. Direc.	F.	WEA.	SEA.
		Dry.	Wet.							Dry.	Wet.				
Skudesnaes ...	30.20	41	39	SE	2	0	1	Valencia ...	29.92	49	47	ENE	0	c	2
Sumburgh Head ...	30.09	42	40	SW	1	0	1	Scilly ...	29.86	50	49	ESE	4	cm	4
Stornoway ...	30.09	46	45	S	2	bc	2	Jersey ...	29.94	45	42	ESE	2	bc	2
Aberdeen ...	30.15	47	45	NE	2	c	2	Hurst Castle ...	29.99	45	44	E	2	cm	4
Shields ...	30.10	49	47	E	2	bc	4	Dungeness ...	30.00	48	41	SE	2	bc	2
Ardrossan ...	30.08	45	43	NE	2	bc	1	North Foreland ...	30.02	43	40	ESE	3	bc	4
Malin Head ...	30.03	47	44	SE	4	bc		London ...	30.02	44	43	ESE	2	bc	*
Mullaghmore ...	30.00	46	42	SE	2	bc	*	Yarmouth ...	30.06	45	42	ESE	5	bc	5
Belmullet ...	30.00	46	42	SE	2	bc	*	Rochefort ...	29.93	38	37	SE	2	0	*
Holyhead ...	30.02	47	48	E	2	bc	2								

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

Weather in morning fine over southern and western Europe and the British Isles as a whole, — foggy in some places, clear and bright in others, fine over Russia also; dull and foggy over Central Europe, unsettled over northern Europe, with rain at Christiansund and St. Petersburg, snow at Archangel. Considerable rain in the north of Norway later, small quantities on our southern coast and the coast of Brittany, heavy rain at Brest. Weather becoming very misty and foggy over Ireland, England, and north Germany.

Temperature changing fitfully — rising over France. Morning readings highest 69° at Algiers and Malta, 64° at Lisbon, above 50° at most extreme southern stations and above 45° at most of the coast stations in our Islands. Lowest, (1) 10° at Moscow, 15° at Kharkov, 20° at Archangel, 25° at Odessa, 24° to 29° over north Germany, 26° to 33° over Central France, 30° to 35° over Central England. Rising to between 43° and 48° at our inland stations later, touching 55° at Nice and 68° at Biarritz.

Wind (1) blowing a gale from W. over the northern half of Norway, moderate SW over the north of Sweden, moderate to strong NW over the Baltic; (2) Calm in Scotland, fresh SE to E over Ireland, England, the Channel, and Brittany, SE over the southwest of France, S over Spain; (3) Anticyclonic air prevalent over Western Europe. E. breezes falling light over Ireland and England later.

Barometer highest 30.5 ins. and more to 30.2 ins. in an anticyclone having its central area over Central Europe, and spreading thence to all but the extreme western and northern countries. Lowest 29.5 ins. and less, over Lapland and the Kola Peninsula, with the White Sea, and below 29.9 ins. in a depression over the Bay of Biscay. Falling over western and northern Europe all day, depression in southwest, moving northward.

### EXPLANATION OF THE 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.

N.B.—The morning observations are made at 8 a.m. in the British Islands, Germany, Sweden, and Norway, 7 a.m. in France, Spain and Portugal, and 9 a.m. in Belgium. The evening observations are made at 6 p.m. in the British Islands (as a rule), and France, 8 p.m. at Oxford, in Sweden, Norway, and Germany, and 9 p.m. in Belgium. The time at each Station is the Standard Time of its Country.

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„ Weekly „ „ „ £1 10 0 „



# DAILY WEATHER REPORT

for 8 a.m. on WEDNESDAY, 15TH NOVEMBER, 1893

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

STATIONS.		YESTERDAY EVENING. (See note at bottom of last page.)					THIS MORNING. (See note at bottom of last page.)										PAST 24 HOURS.			
		BAROM.		TEMP.		WIND.	BAROMETER.		SHADE TEMP.			WIND.		Sea (0 to 9).	SHADE TEMP.			Amount of Rainfall.		
		Reading at 32° F. and Sea Level.	Dry Bulb.	Direc.	Force (0 to 12).		Weather.	Reading at 32° F. and Sea Level.	Change since Yester- day Morn.	Dry Bulb.	Wet Bulb.	Change in dry since Yesterday.	Direc.		Force (0 to 12).	Weather.	Max.		Min.	
Ins.		°				Ins.	°	°	°				°	Ins.	°	Ins.				
SCANDINAVIA.	Haparanda ...	29.36	30	WNW	2	b	29.40	+0.1	18	17	-15	NNE	2	bc	#	b	37	2	—	
	Hernösand ...	29.53	33	S	4	bc	29.65	-0.5	22	29	-1	SW	2	b	#	bc	43	31	—	
	Stockholm ...	29.76	34	WNW	2	b	29.72	-0.2	32	31	-5	NW	2	bc	#	b	43	30	—	
	Wisby ...	29.85	38	SW	6	o	29.75	-0.2	36	33	-1	NNW	4	c	#	o	39	34	—	
	Bodö ...	29.22	27	W	8	o	29.63	+2.4	35	34	-1	NNW	4	bc	2	o.T	39	32	—	
	Christiansund...	29.74	37	WNW	6	T	29.88	+1.6	36	34	-7	WNW	2	c	5	T	43	34	0.71	
	Skudesnaes ...	29.77	41	SSE	2	o	29.80	-0.3	38	36	-4	N	2	o	2	o.T	43	2	—	
	Christiania Fjord (Færder)	29.75	38	WNW	4	bc	29.80	-0.6	31	28	+1	NNE	6	b	1	bc	38	30	—	
	Skagen (The Scaw)	29.79	35	WNW	1	o	29.75	-0.2	34	33	-8	2	o	o	o	o	42	32	—	
	Fanö ...	29.76	34	SE	2	m	29.72	-0.2	35	35	+3	ENE	2	m	#	m	36	30	—	
ISLANDS	Sumburgh Head	29.76	40	NE	3	T	29.91	+1.2	36	32	-2	NNE	1	o	2	o.T	43	34	0.01	
	Stornoway ...	29.81	43	N	2	o	29.86	+0.3	41	41	+3	N	3	c	3	m.o	44	36	0.05	
	Wick ...	29.80	38	N	3	o	29.88	+0.7	40	38	+13	E	1	c	3	o	43	26	0.33	
	Nairn ...	29.81	33	2	0	b	29.90	+0.5	33	30	+3	WNW	1	o	1	b	41	29	0.33	
	Aberdeen ...	29.81	35	WNW	2	bc	29.81	+0.7	33	33	-1	NE	2	bc	4	cgbcqf	42	34	0.33	
	Leith ...	29.80	41	W	1	o	29.86	+0.7	39	37	0	W	2	om	#	o	43	35	—	
	Shields ...	29.75	44	WNW	1	om	29.84	+0.3	47	45	+7	NE	3	c	3	om	47	38	—	
	Spurn Head ...	29.76	38	WNW	1	d	29.76	-1.0	46	44	+8	NE	3	o	3	md.T	46	36	0.06	
	York ...	29.75	38	S	1	o	29.82	-0.4	44	42	+7	N	1	c	#	o	45	35	—	
	Loughborough	29.79	33	WNW	1	T	29.78	-1.2	39	38	+14	NW	1	of	#	T	37	25	0.10	
BRITISH ISLANDS	Ardrossan ...	29.80	39	NE	1	b.m	29.89	+0.5	34	33	-4	2	o	cf	0	cm.b.m	43	31	—	
	Malin Head ...	29.83	46	N	3	om	29.89	+0.5	39	38	-5	SSE	1	cf	0	cm.om	46	39	—	
	Mullaghmore ...	29.85	43	SE	1	o	29.89	+0.3	35	34	-7	NE	2	b	#	o	46	34	—	
	Belmullet ...	29.79	43	NNE	3	c	29.90	+0.7	43	40	-4	ENE	3	b	2	c	47	42	—	
	Donaghadee ...	29.79	43	NNE	3	c	29.90	+0.7	43	40	-4	ENE	3	b	2	c	47	42	—	
	Liverpool (Bldston)	29.79	38	2	0	o	29.84	-0.2	42	41	+10	N	1	o	1	o	42	31	—	
	Holyhead ...	29.76	43	2	0	og	29.84	0.0	47	44	+5	NE	4	cg	4	Tg.og	47	42	0.35	
	Parsonstown ...	29.82	41	NW	1	o	29.80	+0.3	28	27	-12	2	0	cg	#	44	26	—		
	Valencia ...	29.82	46	NE	2	b.m	29.90	+0.7	36	35	-10	2	0	b	1	om.b.m	51	33	—	
	Roche's Point	29.80	45	ENE	1	odf	29.88	+0.6	37	36	-8	NNE	1	b	3	T.d.o	47	36	0.15	
GERMANY & HOLLAND	Pembroke (St. Ann's Hd.)	29.73	42	NE	3	T	29.82	-0.1	44	42	+1	NE	2	omg	2	T	45	42	0.26	
	Scilly ...	29.64	52	NNE	5	m	29.81	+0.8	53	48	-4	NNW	4	c	4	m	53	46	0.07	
	Prawle Point ...	29.64	49	ENE	1	f	29.79	-0.1	44	41	-7	ENE	2	m	1	f	52	41	0.19	
	Jersey (St. Aubin's)	29.66	56	SSE	2	od	29.76	-0.7	53	49	-1	NW	3	om	3	Tom.d	56	49	0.46	
	Hurst Castle ...	29.67	48	ENE	1	fd	29.77	-0.8	40	40	-3	N	1	ofd	1	F.fd	49	40	0.29	
	Dungeness ...	29.72	50	SW	2	d	29.63	-0.2	43	43	+2	NNE	3	od	2	m.d	51	40	0.30	
	North Foreland	29.78	49	SW	1	Tf	29.65	-0.4	46	45	+2	N	3	Tg	3	f.Tf	49	42	0.67	
	London ...	29.74	42	SE	1	Tm	29.71	-1.8	40	40	+3	W	1	omg	#	fdg.T	43	36	0.72	
	Oxford ...	29.71	38	NNE	1	T	29.76	-1.2	38	37	+7	NNW	2	o	#	of.T	39	30	0.31	
	Cambridge ...	29.76	40	WNW	2	T	29.72	-1.7	33	33	+6	NW	2	o	#	T	41	32	0.31	
FRANCE AND BELGIUM	Yarmouth ...	29.77	40	2	0	bc	29.66	-2.1	46	45	+9	N	3	Tfg	4	f.bc	46	36	0.10	
	Cuxhaven ...	29.84	36	SE	1	f	29.67	-0.2	40	40	+8	E	2	f	#	f	42	32	—	
	Berlin ...	29.91	36	SE	2	c	29.75	-0.3	39	37	+10	S	2	o	#	f	39	23	—	
	Wiesbaden ...	29.83	32	SW	3	#	29.71	-0.2	33	33	+4	2	0	T	#	#	39	36	0.29	
	Munich ...	29.83	32	SW	3	#	29.87	-0.2	36	36	+4	SE	3	f	#	b	41	26	—	
	The Helder ...	29.80	41	S	1	T	29.67	-0.8	42	42	+10	NE	4	c	2	T	43	32	0.08	
	Brussels (9 a.m.)	*	*	*	*	*	29.52	-0.5	50	50	+11	SW	1	T	#	T	53	39	0.63	
	Cape Gris Nez	29.72	46	SW	1	T	29.56	-0.2	50	50	+7	NE	5	f	5	T	50	41	0.47	
	Paris ...	29.81	52	SW	2	o	29.62	-0.6	54	53	+18	SW	2	b	#	o	54	36	0.51	
	Brest ...	29.72	56	SE	2	T	29.72	0.0	50	49	-4	N	2	c	4	T	57	41	0.33	
PENINSULA	Lorient ...	29.66	56	SW	6	T	29.78	+0.1	53	53	-3	NNW	3	o	4	T	57	52	0.47	
	Rocheport ...	29.86	33	SW	3	T	29.82	-1.4	35	34	+4	NW	3	c	#	T	53	50	0.35	
	Belfort ...	29.81	44	S	1	b	29.89	-2.1	43	43	+6	S	4	T	#	b	58	43	0.24	
	Lyons ...	29.94	53	2	0	c	29.80	-0.8	50	48	+2	2	0	o	2	c	57	43	—	
	Nice ...	29.85	56	2	0	o	29.94	-1.8	51	51	-1	W	2	o	#	o	59	47	0.08	
	Perpignan ...	29.89	65	S	3	bc	29.87	-1.0	53	53	+5	SW	2	T	2	bc	68	55	0.24	
	Biarritz ...	29.89	65	S	3	bc	29.87	-1.0	53	53	+5	SW	2	T	2	bc	68	55	0.24	
	Corunna ..	29.86	64	SW	4	o	29.86	-0.1	63	63	+3	SW	2	f	#	o	66	60	0.43	
	Lisbon ...	29.86	64	SW	4	o	29.86	-0.1	63	63	+3	SW	2	f	#	o	66	60	0.43	

For Explanation of Columns, see bottom of last page.

† Received too late for insertion in Charts on next page.



# WEATHER CHARTS

for 8 a.m. on Wednesday, 15. Nov: 1893.

## 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 3.  
○ = dead calm.

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

▨ = Rough. ▨ = High.

### MEAN HEIGHT OF THE BAROMETER

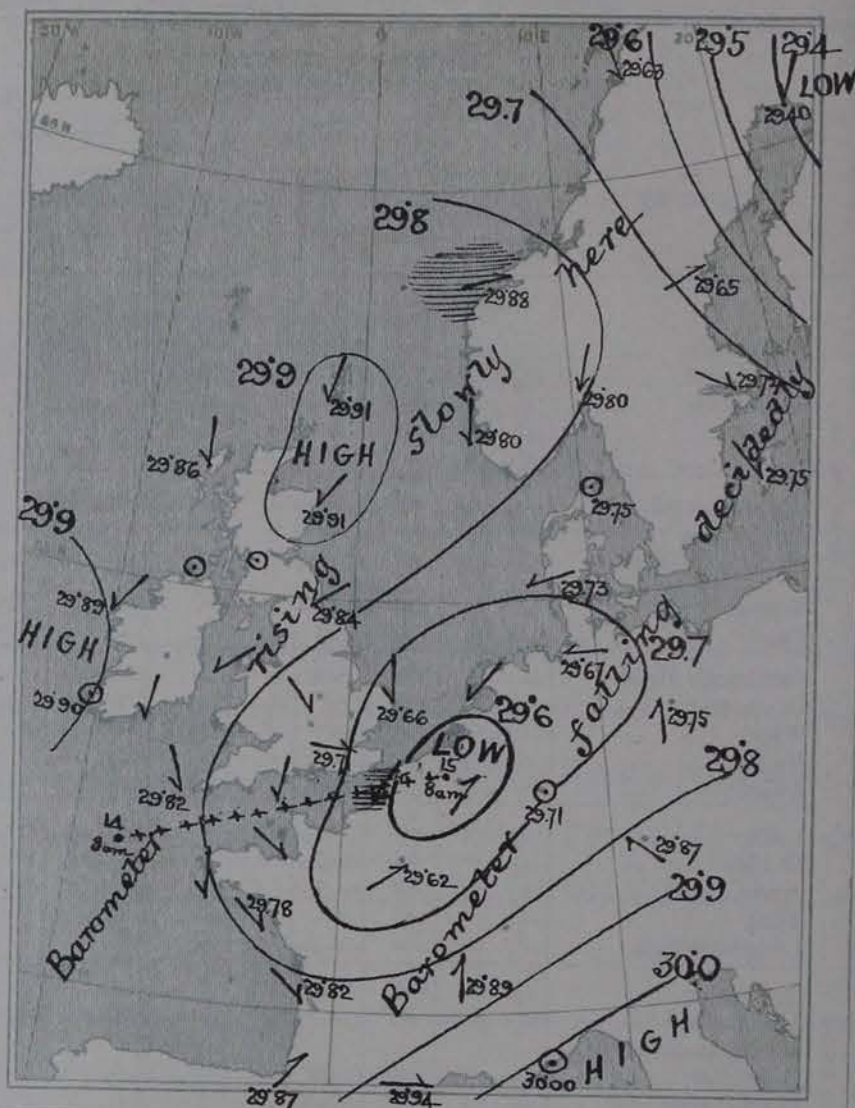
at 8.0 a.m. for the month of November.

During the 20 Years 1871—1890.

#### STATIONS.

#### MEAN READINGS.

STATIONS.	MEAN READINGS.
Sumburgh Head	29.083
Stornoway	29.090
Wick	29.122
Nairn	29.138
Aberdeen	29.158
Leith	29.189
Shields	29.213
Spurn Head	29.242
York	29.246
Loughborough	29.277
Ardrossan	29.291
Mullaghmore	29.280
Donaghadee	29.310
Holyhead	29.335
Liverpool	29.351
Parsonstown	29.347
Valencia	29.365
Roche's Point	29.365
Pembroke	29.364
Scilly	29.397
Prawle Point	29.414
Jersey	29.428
Hurst Castle	29.402
Dover	29.403
LONDON	29.398
Oxford	29.396
Cambridge	29.387
Yarmouth	29.365



## 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 November.)

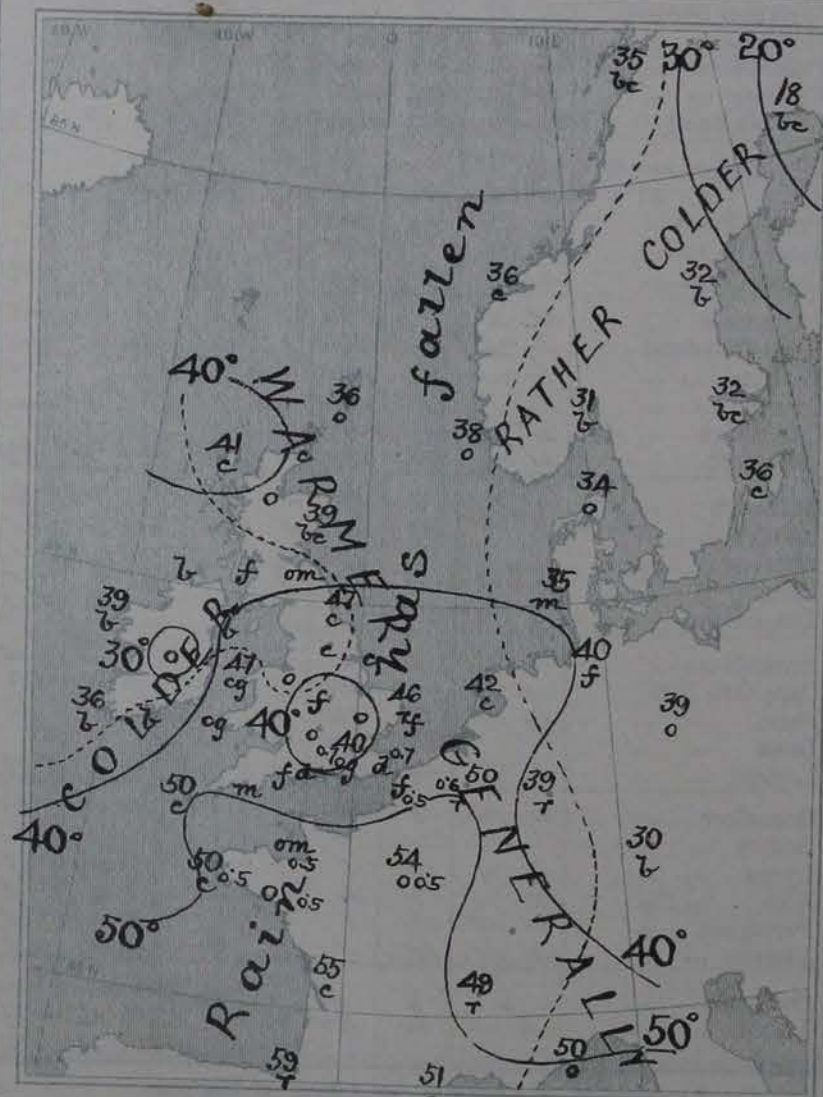
#### STATIONS.

#### TEMPERATURE.

#### RAINFALL

STATIONS.	TEMPERATURE.				RAINFALL (Inches.)
	Daily Max.	Daily Min.	Dry, at 8 a.m.	Wet.	
Sumburgh Head	45.6	37.8	42.0	40.3	4.16
Stornoway	46.2	37.0	41.7	40.7	4.79
Wick	46.1	36.1	41.4	39.8	2.03
Nairn	45.3	35.7	39.8	38.2	2.29
Aberdeen	46.2	36.5	40.5	38.7	3.14
Leith	48.1	37.0	41.7	40.0	2.20
Shields	47.3	37.0	42.1	40.5	2.61
Spurn Head	46.8	40.2	43.2	41.9	2.40
York	47.5	36.4	40.6	39.3	2.19
Loughborough	48.0	36.6	40.5	39.3	2.24
Ardrossan	47.8	39.1	43.1	41.3	3.88
Mullaghmore	49.6	41.2	45.1	43.1	4.48
Donaghadee	48.3	39.2	43.2	42.0	3.20
Holyhead	49.7	42.9	45.8	44.0	3.88
Liverpool	47.8	39.6	42.5	40.7	2.96
Parsonstown	49.1	37.1	41.9	40.2	2.83
Valencia	52.3	43.0	47.4	45.5	5.42
Roche's Point	51.1	42.0	46.1	44.5	4.62
Pembroke	50.1	43.8	46.9	45.1	4.04
Scilly	52.4	46.7	50.0	48.0	3.72
Prawle Point	51.1	41.9	46.2	44.7	3.20
Jersey	51.9	44.1	47.7	45.8	4.30
Hurst Castle	50.5	40.6	44.9	44.0	3.01
Dover	49.3	40.6	44.3	42.8	3.48
LONDON	49.3	38.0	42.2	40.8	2.23
Oxford	48.2	37.6	41.2	40.0	2.31
Cambridge	48.6	35.8	40.7	39.9	2.01
Yarmouth	47.5	39.0	43.1	42.0	3.06

NOTE.—The Temperature means are for the 20 years 1871-90, the Rainfall means are mainly those for the 25 years 1868-90.





# GENERAL SITUATION AT 8 A.M.

## PRESSURE

Highest, 29.9 in: and more to 29.8 in: over Ireland, the Irish Channel, Scotland, and the coast of Norway.  
 Lowest, 29.4 in: and less, at the northern extremity of the Gulf of Bothnia, and 29.6 in: and less, in a shallow disturbance having its centre near Brussels.  
 Gradients are slight — very slight over the western and northern parts of the Kingdom.  
 Barometer rising very slowly over the British Isles generally, falling over the Netherlands and Germany.

## TEMPERATURE

Highest, 63° at Lisbon, 59° at Kilmory, and above 50° on the western and southern coasts of France, 54° at Paris, 50° at Jersey, Lally and Brussels.  
 Lowest, (1) 18° at Haparanda, 32° at Skerö and Stockholm; (2) 30° at Munich; (3) 28° at Caronsstoun.  
 It is below 40° over the inland parts of our Islands generally.

## WIND

Variable from the N<sup>W</sup> over the British Islands — light in most places — moderate on our southeast coasts.  
 NW<sup>3</sup> over the Bay of Biscay; S<sup>3</sup>, but variable over central and eastern France and at Berlin.  
 Over Scandinavia it is mainly N<sup>3</sup>, but variable.

## WEATHER

Very fine in Ireland, at Aberdeen, and in many parts of Scandinavia. Overcast and gloomy in most other places, foggy and rainy at several of our eastern stations and in the Netherlands.  
 Large quantities of rain fell at our southern and southeastern stations, in the Netherlands and north of France during yesterday or the night. At Lynsted near Lillingbourne the fall amounted to 0.8 in: Much fog and mist prevailed over England yesterday.

## SEA

Rather rough at Christiansund and Cape Fiesch, moderate or slight elsewhere, smooth on our south coast, moderate on the French side of the Channel.

## PROBABLE CHANGES IN SYSTEM NOW PREVALENT

Light N<sup>W</sup> breezes seem likely to continue during the coming day, with colder, but fairer weather.

# FORECASTS

For the 24 hours ending at NOON on 16<sup>th</sup> November, 1893.

## DISTRICTS.

## FORECASTS.

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

N<sup>W</sup> and varying airs; fair, hazy at times.  
 N<sup>W</sup> breezes, light; weather inclined to improve, but hazy or foggy at times. Colder.

## DISTRICTS.

## FORECASTS.

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

Same as Nos 0 and 1.  
 N<sup>W</sup> and NW<sup>2</sup> breezes, moderate or light; fair as a whole. Colder.  
 N<sup>W</sup> airs; fair, cold, foggy or hazy 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. Direc.	F.	WEA.	SEA.		BAR.	THER.		WIND. Direc.	F.	WEA.	SEA.
		Dry.	Wet.							Dry.	Wet.				
Skudesnaes ...	29.85	42	40	SSE	2	o	2	Valencia ...	29.80	50	48	NE	1	om	1
Sumburgh Head ...	29.72	45	43	WNW	2	o	2	Scilly ...	29.65	53	53	ENE	2	m	4
Stornoway ...	29.81	44	44	2	o	m	2	Jersey ...	29.70	53	53	SSE	4	odm	2
Aberdeen ...	29.80	41	38	WNW	4	cq	2	Hurst Castle ...	29.73	49	49	ENE	2	f	2
Shields ...	29.77	43	41	WNW	2	o	2	Dungeness ...	29.79	50	49	SSE	2	m	1
Ardrossan ...	29.80	42	41	N	1	cm	1	North Foreland ...	29.78	48	47	S	1	fcd	0
Malin Head ...	29.82	46	42	NE	0	cm	1	London ...	29.80	43	42	SE	1	fcd	0
Mullaghmore ...								Yarmouth ...	29.81	40	38	WNW	2	bf	2
Belmullet ...	29.84	43	42	SE	1	o	*	Rochefort ...	29.93	54	54	SE	4	7	*
Holyhead ...	29.79	44	44	WNW	1	pmg	1								

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

Weather in morning fine over Scotland, some parts of Sweden, north Germany and Hungary, but as a whole very cloudy, with fog or mist at an unusually large number of stations, rain falling at Lorient, Jersey, and Rochefort, at Perpignan, Rome, Constantinople, and Christiansund, snow at Archangel. Rain during day over Great Britain, and France, and amounts very considerable in the north of France and the south and southeast of England, a considerable fall at Christiansund also.

Temperature risen fast in the south of Russia and over the northern half of France, changed little and irregularly elsewhere. Morning readings exceeding 60° at many of the Mediterranean stations, and exceeding 50° on the west coast of France, at Jersey, and at Lally. Lowest (1) 15° at Archangel; (2) 23° at Odessa, 24° at Hermannstadt, 26° at Munich, 27° at Prague, 28° at Münster, 29° at Berlin; (3) 25° at Loughborough, 27° at Wick, 30° at Aberdeen, 31° at Oxford, 33° at Cambridge. Rising later to between 39° and 45° over the northern parts of Great Britain to 55° at Scilly, to 56° at Jersey, 57° at Brest and Nice, and 68° at Biarritz. Falling fast in Ireland at night.

Winds W<sup>s</sup> over northern Europe and blowing a gale at Bodo and Christiansund; very variable over the British Islands, but mainly E<sup>s</sup> at our southern stations, SE<sup>s</sup> over the west and north of France and the Netherlands. A light anticyclonic circulation prevailing over southeastern Europe. No great change during day.

Barometer highest 30.5 ins: and more over the south of Russia and exceeding 30.0 ins: over the whole of southeastern central, southern, and southeastern Europe. Lowest 29.4 ins: and less over Lapland, the Kola Peninsula and the White Sea, and below 29.8 ins: in a shallow depression having its centre somewhat to westward of Lorient. Latter disturbance moving east-northeastwards later and growing slightly deeper.

### EXPLANATION OF THE 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.

N.B.—The morning observations are made at 8 a.m. in the British Islands, Germany, Sweden, and Norway, 7 a.m. in France, Spain and Portugal, and 9 a.m. in Belgium. The evening observations are made at 6 p.m. in the British Islands (as a rule), and France, 8 p.m. at Oxford, in Sweden, Norway, and Germany, and 9 p.m. in Belgium. The time at each Station is the Standard Time of its Country.

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„ Weekly „ „ „ £1 10 0 „



# DAILY WEATHER REPORT

for 8 a.m. on THURSDAY, 16<sup>TH</sup> NOVEMBER, 1893

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

STATIONS.		YESTERDAY EVENING. (See note at bottom of last page.)						THIS MORNING. (See note at bottom of last page.)										PAST 24 HOURS.			
		BAROM.		TEMP.		WIND.		BAROMETER.		SHADE TEMP.				WIND.		SHADE TEMP.		Amount of Rainfall.			
		Reading at 32° F. and Sea Level.	Dry Bulb.	Dirac.	Force (0 to 12).	Weather.	Reading at 32° F. and Sea Level.	Change since Yesterday Morn.	Dry Bulb.	Wet Bulb.	Change in dry since Yesterday.	Dirac.	Force (0 to 12).	Weather.	Sea (0 to 9).	Max.	Min.				
		Inch.	°				Inch.	°	°	°							Inch.				
SCANDINAVIA.	Haparanda ...	29.98	41	2	0	b	29.07	+67	13	13	-5	2	0	0	*	b	28	10	—		
	Hernösand ...	29.01	37	2	0	b	29.01	+42	13	13	-14	2	0	0	*	b	41	16	—		
	Stockholm ...	29.97	29	2	0	b	29.20	+48	27	25	-5	2	0	0	*	b	29	27	—		
	Wisby ...	29.95	37	NNW	4	b	29.19	+44	33	31	-5	E	4	0	*	b	29	32	—		
	Bodö ...	29.86	30	E	4	bc	29.62	0.0	37	34	+2	E	5	0	*	bc	27	27	—		
	Christiansund...	29.91	36	ESE	2	bc	29.76	-12	29	25	+2	NNW	2	0	*	bc	29	36	—		
	Skudesnaes ...	29.00	43	SE	4	0	29.03	+23	42	29	+4	SE	6	0	*	bc	42	38	—		
	Christiania Fjord (Færdar)	29.03	35	NNE	4	b	29.15	+35	37	36	+6	NNW	2	0	*	b	37	31	—		
	Skagen (The Scaw)	29.92	33	NE	2	bc	29.15	+40	36	33	+2	SE	1	0	*	bc	41	32	—		
	Fanø ...	29.96	37	NE	4	0	29.12	+39	36	34	+1	E	4	0	*	0	29	34	—		
BRITISH ISLANDS.	Sumburgh Head	29.84	42	SW	1	0	29.74	-17	45	43	+2	SW	2	0	*	0	46	36	—		
	Stornoway ...	29.82	44	2	0	0	29.65	-21	46	46	+5	0	0	0	*	0	47	38	—		
	Wick ...	29.87	42	SW	2	bc	29.70	-15	44	43	+1	0	0	0	*	bc	46	37	—		
	Nairn ...	29.89	40	2	0	c	29.75	-15	42	39	+3	0	0	0	*	c	43	34	—		
	Aberdeen ...	29.96	40	NNW	1	c	29.84	-07	44	39	+5	0	0	0	*	bc	46	39	0.01		
	Leith ...	29.96	42	2	0	c	29.84	-05	42	38	+2	2	0	0	*	c	44	35	0.01		
	Shields ...	29.95	47	ESE	1	c	29.90	+06	45	41	-2	SE	4	0	2	c	52	41	—		
	Spurn Head ...	29.92	44	NNE	2	bc	29.94	+18	46	43	0	SE	4	0	4	c	47	43	—		
	York ...	29.96	44	E	1	c	29.92	+10	44	40	-1	SE	1	0	*	c	48	38	—		
	Loughborough	29.95	44	NE	2	0	29.94	+16	42	40	+2	E	1	0	*	0	46	37	—		
GERMANY & HOLLAND.	Ardrossan ...	29.92	41	NE	1	0	29.76	-13	45	43	+1	ESE	4	0	*	cm	46	33	—		
	Malin Head ...	29.89	39	SE	2	0	29.59	-30	46	45	+1	SE	5	0	1	bc	46	38	—		
	Mullaghmore ...	29.82	41	E	2	b	29.48	-41	46	44	+2	SE	5	0	*	b	47	34	0.02		
	Belmullet ...	29.92	40	ESE	4	c	29.72	-18	48	45	+3	SE	6	0	4	c	51	44	—		
	Donaghadee ...	29.92	40	ESE	4	c	29.72	-18	48	45	+3	SE	6	0	4	c	51	44	—		
	Liverpool (Bidston)	29.95	42	ESE	1	b	29.82	-01	41	39	-1	ESE	2	0	2	b	46	37	—		
	Holyhead ...	29.94	42	ESE	1	bc	29.76	-08	46	43	-1	SE	2	0	2	bc	48	39	—		
	Parsonstown ...	29.89	41	2	0	b	29.55	-34	47	44	+3	0	0	0	*	bc	47	36	—		
	Valencia ...	29.83	40	ESE	4	0	29.42	-48	52	50	+2	ESE	7	0	5	bc	52	35	0.01		
	Roche's Point	29.88	40	SE	2	bc	29.52	-35	52	50	+2	0	0	0	*	bc	52	37	—		
FRANCE AND BELGIUM.	Pembroke (St. Ann's Hd.)	29.83	44	ESE	2	0	29.70	-12	50	48	+2	SE	6	0	6	0	50	44	—		
	Scilly ...	29.87	40	ESE	2	bc	29.62	-15	52	50	+2	SE	7	0	5	c	52	44	—		
	Prawle Point ...	29.90	42	NNE	1	m	29.79	0.0	49	47	+2	SE	5	0	4	m	49	41	—		
	Jersey (St. Aubin's)	29.88	40	NNW	2	0	29.85	+03	48	46	-2	SE	4	0	1	0	51	45	0.01		
	Hurst Castle ...	29.90	45	NNW	1	md	29.87	+10	50	48	+2	SE	2	0	1	0	50	40	0.02		
	Dungeness ...	29.85	46	NNE	2	T	29.95	+32	46	44	+2	SE	2	0	2	T	47	42	0.16		
	North Foreland	29.85	48	NNE	4	0	29.96	+31	46	43	0	SE	2	0	2	0	48	43	0.13		
	London ...	29.91	45	NNW	2	0	29.94	+23	45	44	+1	SE	2	0	*	0	46	39	0.26		
	Oxford ...	29.96	42	N	1	0	29.91	+15	44	43	+1	ESE	2	0	*	0	44	37	—		
	Cambridge ...	29.93	42	NNW	2	0	29.96	+24	45	43	+2	ESE	2	0	*	0	46	38	—		
PENINSULA.	Yarmouth ...	29.87	46	NE	4	c	29.96	+30	45	44	-1	SE	5	0	4	c	47	44	0.01		
	Cuxhaven ...	29.80	38	ESE	2	0	29.11	+44	38	38	-2	ESE	2	0	*	0	41	38	—		
	Berlin ...	29.66	38	SE	2	T	29.95	+20	39	38	0	NNW	4	0	*	T	41	36	0.09		
	Wiesbaden ...	29.76	37	SE	2	T	29.98	+27	42	41	+1	NNW	1	0	*	T	43	37	0.01		
	Munich ...	29.76	37	SE	2	T	29.97	+10	42	42	+1	NNW	4	0	*	T	43	36	0.08		
	The Helder ...	29.92	43	NE	1	c	29.11	+44	37	34	-5	E	1	0	*	c	43	36	—		
	Brussels (9 a.m.)	29.84	40	N	4	T	29.96	+40	41	39	-2	SE	1	0	2	T	50	37	0.40		
	Cape Gris Nez	29.91	40	NNW	2	0	29.99	+37	46	44	-2	NNW	1	0	*	0	50	44	—		
	Brest ...	29.89	37	N	2	0	29.81	+08	49	47	-2	SE	5	0	5	0	50	41	—		
	Lorient ...	29.89	37	N	2	0	29.81	+08	49	47	-2	ESE	4	0	4	bc	50	45	—		
GERMANY & HOLLAND.	Rochefort ...	29.91	34	NNW	2	0	29.90	+08	51	51	-4	SE	2	0	*	m	57	50	—		
	Belfort ...	29.91	35	NNW	2	0	29.96	+07	47	47	-2	NNW	1	0	*	T	56	49	0.22		
	Lyons ...	29.93	37	NNW	2	0	29.97	+04	50	49	-1	NNW	1	0	*	0	53	50	—		
	Nice ...	29.95	37	NNW	2	0	29.94	+01	52	51	+1	NNW	2	0	*	0	64	50	—		
	Perpignan ...	29.95	37	NNW	2	0	29.94	+01	52	51	+1	NNW	2	0	*	0	64	50	—		
	Biarritz ...	29.96	36	NNW	2	0	29.94	+01	52	51	+1	NNW	2	0	*	0	64	50	—		
PENINSULA.	Corunna ...	29.84	37	NNW	2	0	29.95	+07	66	65	+1	NNW	5	0	*	0	66	61	0.59		
	Lisbon ...	29.84	37	NNW	2	0	29.95	+07	66	65	+1	NNW	5	0	*	0	66	61	0.59		

For Explanation of Columns, see bottom of last page.

† Received too late for insertion in Charts on next page.



# WEATHER CHARTS

for 8 a.m. on Thursday, 16<sup>th</sup> Nov<sup>r</sup> 1893.

## 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:

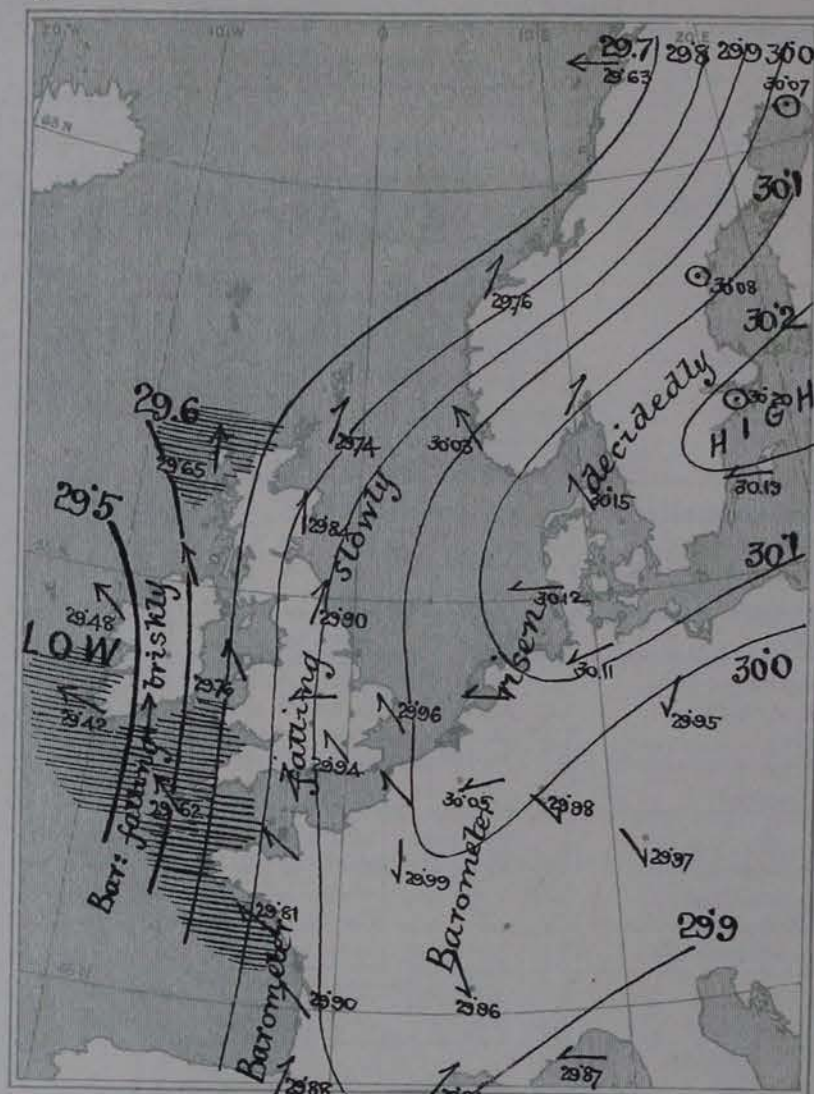
▨ = Rough. ▨ = High.

### MEAN HEIGHT OF THE BAROMETER

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

During the 20 Years 1871–1890.

STATIONS.	MEAN READINGS.
Sumburgh Head	29.683
Stornoway	29.690
Wick	29.722
Nairn	29.738
Aberdeen	29.758
Leith	29.780
Shields	29.813
Spurn Head	29.842
York	29.846
Loughborough	29.877
Ardrossan	29.791
Mullaghmore	29.780
Donaghadee	29.810
Holyhead	29.835
Liverpool	29.851
Parsonstown	29.847
Valencia	29.865
Roche's Point	29.865
Pembroke	29.864
Scilly	29.897
Prawle Point	29.914
Jersey	29.928
Hurst Castle	29.962
Dover	29.893
LONDON	29.808
Oxford	29.896
Cambridge	29.887
Yarmouth	29.865



## 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.

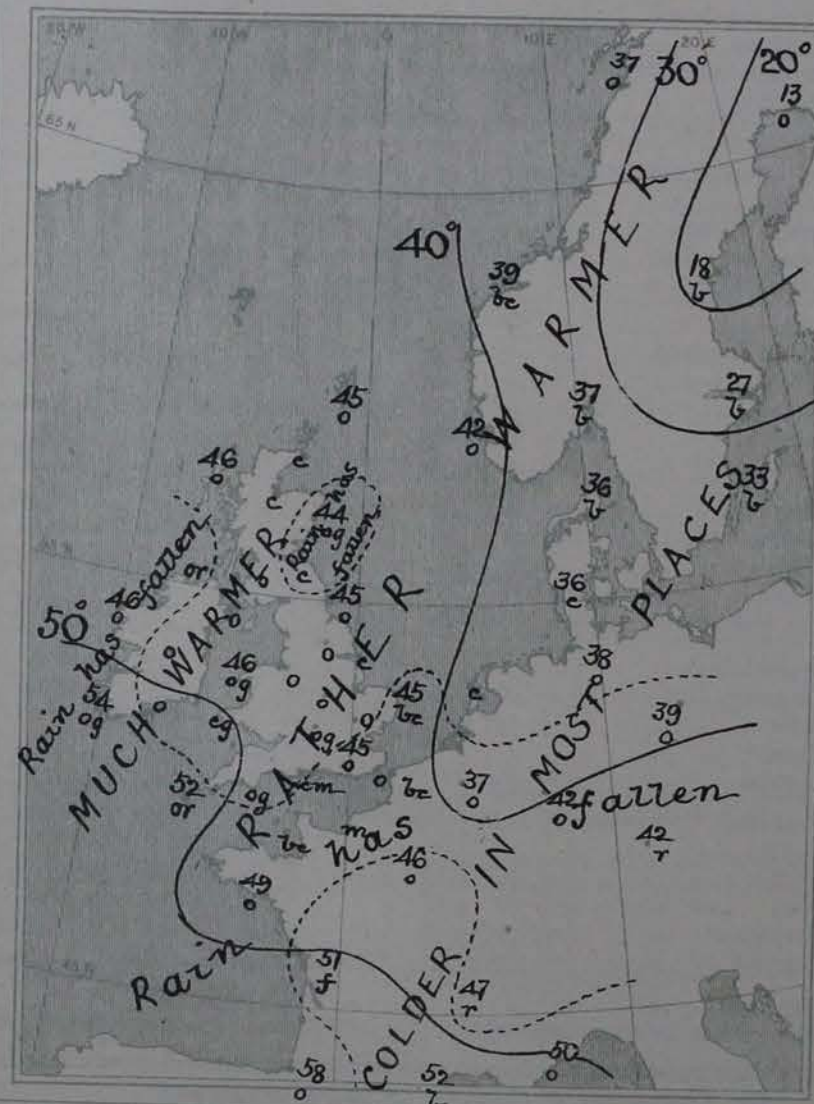
**RAINFALL**—A dotted line separates the districts in which rain has fallen from those where there has been none. Falls of 0.5 in. or more are quoted in figures.

### MEANS OF TEMPERATURE IN SHADE, AND RAINFALL

(For the month of November.)

STATIONS.	TEMPERATURE.				RAINFALL. (Inches.)
	Daily Max.	Daily Min.	Dry.	Wet.	
Sumburgh Head	45.6	37.8	42.0	40.3	4.16
Stornoway	40.2	37.0	41.7	40.7	4.79
Wick	46.1	36.1	41.4	39.8	2.93
Nairn	45.3	35.7	39.8	38.2	2.29
Aberdeen	46.2	36.5	40.3	38.7	3.14
Leith	48.1	37.0	41.7	40.0	2.20
Shields	47.3	37.9	42.1	40.5	2.61
Spurn Head	46.8	40.2	42.2	41.9	2.40
York	47.5	36.4	40.6	39.3	2.19
Loughborough	48.0	36.6	40.5	39.3	2.24
Ardrossan	47.8	39.1	43.1	41.3	3.88
Mullaghmore	49.6	41.2	45.1	43.3	4.48
Donaghadee	48.3	39.2	43.2	42.0	3.20
Holyhead	49.7	42.9	45.8	44.0	3.88
Liverpool	47.8	39.6	42.5	40.7	2.96
Parsonstown	49.1	37.1	41.9	40.2	2.83
Valencia	52.3	43.0	47.4	45.5	5.42
Roche's Point	51.1	42.0	46.1	44.5	4.02
Pembroke	50.1	43.8	48.9	45.1	4.04
Scilly	52.4	46.7	50.0	48.0	3.72
Prawle Point	51.1	41.9	46.2	44.7	3.20
Jersey	51.9	44.1	47.7	45.8	4.36
Hurst Castle	50.5	40.6	44.9	44.0	3.01
Dover	49.3	40.6	44.3	42.8	3.48
LONDON	49.3	38.0	42.2	40.8	2.23
Oxford	48.2	37.6	41.2	40.0	2.31
Cambridge	48.6	35.8	40.7	39.9	2.01
Yarmouth	47.5	39.0	43.1	42.0	3.06

**NOTE.**—The Temperature means are for the 20 years 1871–90, the Rainfall means are mainly those for the 25 years 1866–90.





# GENERAL SITUATION AT 8 A.M.

## PRESSURE

Highest, 30.2 in. to 30.1 in.: over the south of Sweden and the whole of Denmark and Holstein, and exceeding 29.9 in. over the eastern parts of England and the whole of France.  
Lowest, 29.5 in. and less, over the western parts of Ireland, and below 29 in. in the northwest of Norway.

Gradients have become rather steep, for S winds, over all the western parts of our Islands.

Barometer falling fast in the west, and the fall is spreading eastwards.

## TEMPERATURE

Highest, 50° to 58° in the south of France, and 50° to 54° on our extreme southwestern coast; exceeding 40° at all our own stations.

Lowest, 13° at Haparanda, 27° at Stockholm, 36° at the Sea.

It has risen rapidly over Ireland and considerably over England since yesterday.

## WIND

SE to S over our Islands generally, — moderate at the eastern and southern stations, strong to a moderate gale in the west and southwest. Moderate SE over the Bay of Biscay, S in the west of Norway; NE to NW over Germany.

It appears to be increasing in force at the western stations, and this increase is spreading northwards and eastward.

## WEATHER

Fine over Scandinavia and the east coast of England, dull and unsettled elsewhere, with rain over Germany and the south of France, as well as at Lally and Malin Head.

Rainfall measured this morning was considerable over Germany, at Cape Fin Noy and Lyons, slight over the southeast of England.

## SEA

Rough on our southwestern coasts generally and at West, slight to smooth in the east and southeast.

## PROBABLE CHANGES IN SYSTEM NOW PREVALENT

A large depression is approaching our western coasts from the southward, and is likely to cause rough wet weather over the Kingdom generally — especially in the west and north. Our southwestern, western, and northern coasts have all been warned.

# FORECASTS

For the 24 hours ending at NOON on 17<sup>th</sup> November, 1893.

## DISTRICTS.

## FORECASTS.

## DISTRICTS.

## FORECASTS.

0	SCOTLAND NORTH	} S <sup>W</sup> or SE <sup>W</sup> winds, strong to a gale; squally, rainy.
1	SCOTLAND EAST	
2	ENGLAND N.E.	} Same as No 5
3	ENGLAND EAST	
4	MIDLAND COUNTIES	
5	ENGLAND SOUTH	
		SE <sup>W</sup> and S <sup>W</sup> winds, increasing; becoming squally and rainy.

6	SCOTLAND WEST	} Strong SE <sup>W</sup> to SW <sup>W</sup> winds and gales; very squally and rainy.
7	ENGLAND N.W.	
8	ENGLAND S.W.	
9	IRELAND NORTH	
10	IRELAND SOUTH	
WARNINGS		At 10.10 am. To districts 0.1. and 6 to 10 "HOIST SOUTH CONE"

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.	F.	WEA.	SEA.		BAR.	THER.		WIND.	F.	WEA.	SEA.
		Dry.	Wet.	Dirac.						Dry.	Wet.	Dirac.			
Skudesnaes ...	29.89	41	38	N	2	b	1	Valencia ...	29.87	48	45	SE	2	bm	2
Sumburgh Head ...	29.90	29	35	2	0	0	2	Scilly ...	29.85	51	47	NE	3	c	4
Stornoway ...	29.86	43	47	NW	3	c	3	Jersey ...	29.82	51	49	NW	2	ofg	2
Aberdeen ...	29.90	44	40	NW	1	bc	4	Hurst Castle ...	29.82	43	43	NNW	1	fd	0
Shields ...	29.90	49	46	NE	2	c	3	Dungeness ...	29.74	45	44	NNE	3	T	2
Ardrossan ...	29.91	45	43	NE	1	cm	0	North Foreland ...	29.77	48	47	N	2	re	4
Main Head ...	29.90	46	44	NE	2	bc	0	London ...	29.81	46	45	NNW	1	gmpd	*
Mullaghmore ...								Yarmouth ...	29.77	47	44	NE	4	c	4
Belmullet ...	29.80	47	43	E	1	b	*	Rochefort ...	29.87	55	53	NNW	3	m	*
Holyhead ...	29.96	47	43	ENE	3	b	2								

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

Weather in morning fine and bright at most of the Scandinavian and Irish stations, as well as the greater part of Italy and southeastern Europe, cloudy elsewhere, with rain at several of the southern French stations, at Legna, and at Odessa, snow at Archangel and Kuopio. Considerable rain over the southeast of England, Belgium, and the west and north of Germany. Rain falling during day over Germany, but weather improving gradually over the British Islands. Clouds beginning to increase, however, in the west of Ireland.

Temperature changing very fitfully; rain decidedly over France, the Netherlands, and Germany, fallen fast over Ireland. Morning readings highest 36° at Malta, and exceeding 60° on the southern and western shores of the Mediterranean, exceeding 50° at most of the French stations. Lowest 21° at Hermannstadt, 26° at Odesa, 27° at Kharkov, 29° at Kiev and Lemberg; (2) 23° at Christown. Rain, decidedly over Ireland later, and the rain spreading eastwards.

Wind very light as a whole (1) N to NW over Scandinavia, S to SW on the eastern shores of the Baltic and over the north of Russia; (2) NE to N over the United Kingdom, NW in the north and west of France, S and SW over the east of France, SE and S over Germany. Shifting to SE and S over Ireland later and increasing in force.

Barometer 30.3 ins. and more to 30.1 ins. over the south of Russia, the Black Sea, Turkey and Asia Minor, and exceeding 30.0 ins. over the Mediterranean and southern parts of Spain. Lowest 29.3 ins. and less, over the north of Russia, and 29.6 ins. and less, in a shallow depression having its centre over Belgium; rather below 30.0 ins. in another very shallow system over the south of Italy, Sicily, and Malta. Beginning to fall again in Ireland later, but rising over England and the North Sea.

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

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

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

N.B.—The morning observations are made at 8 a.m. in the British Islands, Germany, Sweden, and Norway, 7 a.m. in France, Spain and Portugal, and 9 a.m. in Belgium. The evening observations are made at 6 p.m. in the British Islands (as a rule), and France, 8 p.m. at Oxford, in Sweden, Norway, and Germany, and 9 p.m. in Belgium. The time at each Station is the Standard Time of its Country.

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„ Weekly „ „ „ £1 10 0 „



# DAILY WEATHER REPORT

for 8 a.m. on **FRIDAY, 17<sup>th</sup> NOVEMBER, 1893.**

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

STATIONS.		YESTERDAY EVENING. (See note at bottom of last page.)					THIS MORNING. (See note at bottom of last page.)										PAST 24 HOURS.			
		Barom.	Temp.	Wind.		Weather.	Barometer.		Shade Temp.			Wind.		Sea (0 to 9).	Weather.	Shade Temp.		Amount of Rainfall.		
				Reading at 32° F. and Sea Level.	Dry Bulb.		Dir.	Force (0 to 12).	Reading at 32° F. and Sea Level.	Change since Yesterday Morn.	Dry Bulb.	Wet Bulb.	Change in dry since Yesterday.			Dir.	Force (0 to 12).		Max.	Min.
		Inch.	°				Inch.	°	°	°						°	°	Inch.		
SCANDINAVIA.	Haparanda ...	29.70	33	SW	6	0	29.47	-60	35	38	+22	SW	6	0	0	2	2	—		
	Hernösand ...	29.44	33	SW	4	bc	29.71	+37	36	38	+18	S	4	0	bc	2	18	—		
	Stockholm ...	30.15	31	S	0	b	30.28	-13	33	32	+6	S	0	0	b	29	23	—		
	Wisby ...	30.23	31	SE	2	b	30.09	-10	34	33	+1	S	2	0	b	29	28	—		
	Bodö ...	29.27	40	SW	8	T	29.36	-33	41	37	+4	SW	8	0	T	43	34	0.16		
	Christiansund...	29.64	45	SW	4	0	29.41	-35	44	41	+5	SE	2	0	0	45	39	—		
	Skudesnaes ...	29.85	44	SE	8	0	29.44	-39	42	39	0	SE	10	0	0	45	42	—		
	Christiania Fjord (Færdar)	30.03	40	SW	5	0	29.75	-40	42	41	+5	SW	5	0	0	2	37	—		
	Skagen (The Scaw)	30.07	40	SW	2	0	29.76	-39	40	37	+4	S	7	0	0	41	34	—		
	Fanö ...	29.99	39	S	4	0	29.66	-46	38	37	+2	SE	6	0	0	41	36	—		
BRITISH ISLANDS.	Sumburgh Head	29.49	45	SE	4	0	29.90	-14	45	45	0	SE	4	7	6	0	47	40	0.62	
	Stornoway ...	29.35	44	S	7	T	29.79	-26	40	40	-6	W	4	7	4	7	47	38	1.50	
	Wick ...	29.45	45	S	6	0	29.71	-102	43	43	-1	S	4	7	4	0	48	42	0.53	
	Nairn ...	29.41	45	S	1	bc	29.70	-105	41	41	-1	S	0	7	1	bc	46	39	0.25	
	Aberdeen ...	29.33	46	SE	7	ogp	29.73	-111	49	49	+5	SE	8	ogp	8	ogp	49	42	1.22	
	Leith ...	29.49	43	SW	1	0	29.60	-124	51	50	+9	SE	2	0	0	51	40	0.02		
	Shields ...	29.60	45	S	6	0	29.78	-115	53	53	+10	S	7	0	0	53	41	0.01		
	Spurn Head ...	29.65	43	SE	6	0	29.23	-91	51	50	+5	S	6	0	0	51	42	—		
	York ...	29.62	44	S	3	0	29.91	-101	54	52	+11	S	3	0	0	54	40	0.10		
	Loughborough	29.62	42	S	5	0	29.06	-88	53	53	+13	SW	5	ogp	0	53	41	0.06		
GERMANY & HOLLAND.	Ardrossan ...	29.41	48	SE	4	om	29.53	-123	51	51	+6	S	3	om	3	om	51	43	0.75	
	Malin Head ...	29.23	46	SE	4	of	29.76	-83	46	46	0	W	6	0	0	48	45	0.45		
	Mullaghmore ...	29.58	48	SE	4	OT	29.14	-34	43	37	-3	W	7	0	0	49	37	0.94		
	Belmullet ...	29.22	50	SE	7	0	29.73	-39	48	48	0	W	7	ogp	6	ogp	53	46	0.22	
	Donaghadee ...	29.41	48	SE	4	om	29.53	-123	51	51	+6	S	3	om	3	om	51	43	0.75	
	Liverpool (Bldston)	29.38	45	SE	8	0	29.90	-33	52	49	+11	SW	5	0	0	53	41	0.08		
	Holyhead ...	29.29	51	SE	4	omg	29.88	-88	51	50	+5	W	7	omg	6	omg	53	46	0.36	
	Parsonstown ...	29.98	51	SE	3	T	29.10	-45	43	41	-4	W	7	0	0	54	43	0.22		
	Valencia ...	29.82	57	SE	2	Tmg	29.24	-98	46	43	-3	W	8	ogp	6	Tmg	57	40	0.33	
	Roche's Point	29.80	53	SE	7	T	29.16	-37	48	47	-4	W	7	0	0	54	47	0.65		
FRANCE AND BELGIUM.	Pembroke (St. Ann's Hd.)	29.11	51	SE	8	0	29.08	-62	52	52	+2	W	6	ogp	7	ogp	53	49	0.41	
	Scilly ...	29.15	55	SE	9	m	29.23	-39	53	52	+1	W	6	omg	5	m	56	51	0.44	
	Prawle Point ...	29.44	52	SE	7	md	29.22	-37	53	53	+4	W	5	od	4	md	55	49	0.10	
	Jersey (St. Aubin's)	29.58	53	SE	7	ogp	29.34	-51	57	53	+9	W	6	ogp	5	ogp	57	47	0.27	
	Hurst Castle ...	29.47	51	SE	6	od	29.23	-64	54	53	+4	W	7	m	6	omg	53	50	0.20	
	Dungeness ...	29.74	47	SW	5	bc	29.29	-66	53	53	+7	W	6	0	6	bc	53	45	0.06	
	North Foreland	29.74	45	SE	6	bc	29.26	-70	51	50	+5	S	3	ogm	4	c.og	51	42	0.05	
	London ...	29.57	46	SE	4	0	29.21	-73	55	54	+10	SW	3	0	0	c.og	53	43	0.05	
	Oxford ...	29.43	48	S	6	0	29.14	-77	54	53	+10	SW	5	0	0	0	55	44	0.06	
	Cambridge ...	29.67	40	SE	6	b	29.14	-82	53	54	+12	SE	7	0	0	0	56	38	0.03	
PENINSULA.	Yarmouth ...	29.76	44	SE	7	cq	29.22	-74	49	48	+4	SE	6	bc	5	cq	49	41	0.01	
	Cuxhaven ...	30.09	39	SE	3	0	29.68	-43	40	39	+2	SE	5	bc	0	0	44	38	—	
	Berlin ...	30.08	40	SE	4	0	29.90	-35	36	34	-2	SE	5	0	0	0	43	36	—	
	Wiesbaden ...	30.08	40	SE	4	0	29.71	-37	41	40	-1	SE	2	0	0	0	46	35	—	
	Munich ...	29.95	39	SE	4	0	29.77	-30	38	38	-2	SE	5	0	0	0	43	33	0.04	
	The Helder ...	29.89	41	SE	4	0	29.47	-64	38	37	+1	SE	5	0	0	0	41	37	—	
	Brussels (9 a.m.)	30.00	42	SE	4	m	29.48	-35	44	43	+7	SE	5	0	0	0	44	37	—	
	Cape Gris Nez	29.76	42	SE	4	m	29.23	-63	53	52	+12	S	5	0	0	0	53	43	0.79	
	Paris ...	29.82	46	SW	2	0	29.32	-47	52	53	+18	SW	2	0	0	0	53	43	0.04	
	Brest ...	29.82	57	SW	5	0	29.46	-35	56	56	+7	W	6	0	0	0	57	41	0.91	
GERMANY & HOLLAND.	Lorient ...	29.86	57	SW	6	0	29.46	-35	56	56	+7	W	6	0	0	0	57	46	0.51	
	Rochefort ...	29.94	54	SE	3	T	29.58	-32	58	57	+7	W	5	0	0	0	58	48	0.28	
	Belfort ...	29.94	41	SE	1	m	29.58	-32	58	57	+7	W	5	0	0	0	58	48	0.28	
	Lyons ...	29.89	49	W	1	0	29.75	-21	48	48	+1	S	1	0	0	0	54	47	0.12	
	Nice ...	29.85	53	2	0	0	29.75	-21	48	48	+1	SE	1	0	0	0	53	48	—	
	Perpignan ...	29.84	56	2	0	0	29.82	-14	61	57	+9	W	3	0	0	0	66	52	—	
	Biarritz ...	29.84	63	W	6	T	29.82	-16	61	57	+9	W	3	0	0	0	66	57	0.24	
	Corunna ...	30.12	63	W	2	0	30.12	+14	62	61	-4	SW	3	bc	0	0	66	61	0.08	
	Lisbon ...	30.12	63	W	2	0	30.12	+14	62	61	-4	SW	3	bc	0	0	66	61	0.08	

For Explanation of Columns, see bottom of last page.

† Received too late for insertion in Charts on next page.



# WEATHER CHARTS

for 8 a.m. on Friday, 17<sup>th</sup> Nov. 1893.

## 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:

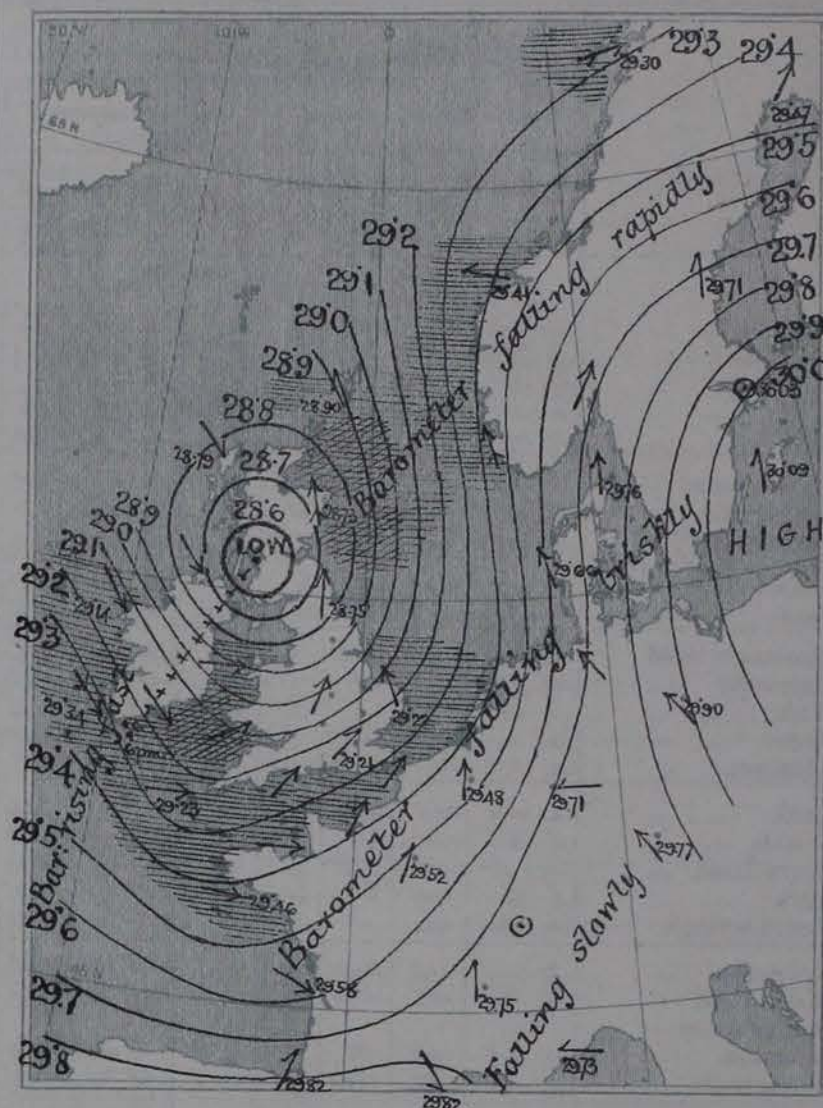
≡ = Rough. ≡ = High.

## MEAN HEIGHT OF THE BAROMETER

at 8.9 a.m. for the month of November.

During the 20 Years 1871—1890.

STATIONS.	MEAN READINGS.
Sumburgh Head	29.683
Stornoway	29.699
Wick	29.722
Nairn	29.738
Aberdeen	29.758
Leith	29.789
Shields	29.813
Spurn Head	29.842
York	29.846
Loughborough	29.877
Ardrossan	29.879
Mullaghmore	29.780
Donaghadee	29.810
Holyhead	29.835
Liverpool	29.851
Parsonstown	29.847
Valencia	29.865
Roche's Point	29.865
Pembroke	29.864
Scilly	29.897
Prawle Point	29.914
Jersey	29.928
Hurst Castle	29.902
Dover	29.893
LONDON	29.898
Oxford	29.896
Cambridge	29.887
Yarmouth	29.865



## 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 November.)

STATIONS.	TEMPERATURE.				RAINFALL (Inches.)
	Daily Max.	Daily Min.	at 8 a.m. Dry.	Wet.	
Sumburgh Head	45.6	37.8	42.0	40.3	4.16
Stornoway	46.2	37.0	41.7	40.7	4.79
Wick	46.1	36.1	41.4	39.8	2.03
Nairn	45.3	35.7	39.8	38.2	2.29
Aberdeen	46.2	36.5	40.5	38.7	3.14
Leith	48.1	37.0	41.7	40.0	2.20
Shields	47.3	37.9	42.1	40.5	2.61
Spurn Head	46.8	40.2	43.2	41.9	2.40
York	47.5	36.4	40.6	39.3	2.19
Loughborough	48.0	36.6	40.5	39.3	2.24
Ardrossan	47.8	39.1	43.1	41.3	3.88
Mullaghmore	49.0	41.2	45.1	43.1	4.48
Donaghadee	48.3	39.2	43.2	42.0	3.20
Holyhead	49.7	42.9	45.8	44.0	3.88
Liverpool	47.8	39.6	42.5	40.7	2.99
Parsonstown	49.1	37.1	41.9	40.2	2.83
Valencia	52.3	43.0	47.4	45.5	5.42
Roche's Point	51.1	42.0	46.1	44.5	4.62
Pembroke	50.1	43.8	46.9	45.1	4.04
Scilly	52.4	46.7	50.0	48.0	3.72
Prawle Point	51.1	41.9	46.2	44.7	3.20
Jersey	51.9	44.1	47.7	45.8	4.30
Hurst Castle	50.5	40.6	44.9	44.0	3.01
Dover	49.3	40.6	44.3	42.8	3.48
LONDON	49.3	38.0	42.2	40.8	2.23
Oxford	48.2	37.6	41.2	40.0	2.31
Cambridge	48.6	35.8	40.7	39.9	2.01
Yarmouth	47.5	39.0	43.1	42.0	3.06

NOTE.—The Temperature means are for the 20 years 1871-90, the Rainfall means are mainly those for the 25 years 1866-90.





# GENERAL SITUATION AT 8 A.M.

## PRESSURE

Highest, 30.0 ins: and more over the Baltic, and exceeding 29.6 ins: on the eastern side of the North Sea; (2) 29.1 ins: to 29.8 ins: over the Iberian Peninsula.  
Lowest, 28.6 ins: and less, in a deep depression lying over the coast of Scotland.

Gradients very steep for S<sup>W</sup> winds over the North Sea, and for NW<sup>W</sup> winds over the northern half of Ireland.

Barometer falling rapidly in the north, rising quickly in the southwest of our Islands, the rise spreading eastwards and northwards.

## TEMPERATURE

Highest, 61° at Biarritz and Perpignan, 57° at Jersey, and exceeding 50° all over the south of England and at Anderson.

Lowest, 33° to 36° at the Swedish stations, 36° at Berlin, 39° at Munich.

At many of our southern stations the maximum temperature for the 24 hours was that recorded at 8 a.m., the rise having occurred during the night.

## WIND

NW<sup>W</sup>, strong to a gale, in Ireland; SW<sup>W</sup> and S<sup>W</sup>, fresh to strong, over England; S<sup>W</sup>, moderate to a gale in the east of Scotland.

It is strong from SW. and W. in the Channel and from W. over the northern half of the Bay of Biscay.

Strong gales from the S<sup>W</sup> have been felt during some part of the past day at all but our extreme southerly stations.

## WEATHER

Cloudy and unsettled generally, with strong squalls and rain in many places. Over Scandinavia and Denmark, however, the condition is at present moderately fair.

Rain has fallen throughout our Islands; over Scotland, the north of Ireland, and Brittany the fall has been large (0.9 in. to 1.5 in.).

## SEA

Very high off the northeast of Scotland, and very rough on our western and eastern coasts generally, rather rough in the Channel.

## PROBABLE CHANGES IN SYSTEM NOW PREVALENT

The depression's centre was over the south of Ireland at 6 p.m., and has therefore moved north-northeastwards at the rate of about 24 geographical miles an hour. The barometric recovery in the southwest is now spreading northeastwards.

# FORECASTS

For the 24 hours ending at NOON on 18<sup>th</sup> NOVEMBER 1893.

## DISTRICTS.

## FORECASTS.

## DISTRICTS.

## FORECASTS.

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

S<sup>W</sup> and SW<sup>W</sup> winds, moderating slowly; very mild, rain at times.

SW<sup>W</sup> winds, falling light after veering W<sup>W</sup>; some showers then fairer and cooler.

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

## WARNINGS

NW<sup>W</sup> and W<sup>W</sup> winds, moderating gradually; colder, some showers, bright intervals.

All our coasts were warned yesterday.

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. Direc.	F.	WEA.	SEA.		BAR.	THER.		WIND. Direc.	F.	WEA.	SEA.
		Dry.	Wet.							Dry.	Wet.				
Skudesnaes ...	29.99	42	29	SE	8	7	6	Valencia ...	29.50	55	54	E	2	7	6
Sumburgh Head ...	29.62	45	48	S	3	0	4	Scilly ...	29.25	54	54	SE	2	m	6
Stornoway ...	29.49	45	45	S	7	7	6	Jersey ...	29.68	55	55	SE	5	cm	4
Aberdeen ...	29.68	44	25	SE	6	0	5	Hurst Castle ...	29.70	57	50	SE	2	cm	1
Shields ...	29.72	47	44	S	4	0	2	Dungeness ...	29.82	47	45	SE	2	bc	2
Ardrossan ...	29.53	47	46	ESE	4	om	3	North Foreland ...	29.84	44	42	SE	2	c	4
Malin Head ...	29.54	47	45	SE	7	of	3	London ...	29.79	48	44	SE	4	c	*
Mullaghmore ...								Yarmouth ...	29.87	45	41	SE	6	cg	5
Belmullet ...	29.26	43	48	ESE	5	0	*	Rochefort ...	29.79	53	53	SE	2	m	*
Holyhead ...	29.55	50	47	SE	4	mg	4								

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

Weather in morning fine and bright over the Baltic, the south of Norway, and Denmark, as well as on the extreme east coast of England, cloudy or overcast elsewhere; very rainy over Central and southern Europe, very unsettled in the southwest of our Islands with rain at Lundy. Rain falling later over all parts of the United Kingdom and the greater part of France - amounts collected being large at Chert, C. P. M., Belmullet, Ardrossan, Stornoway, and Aberdeen.

Temperature highest 68° at Liffey, and exceeding 60° on the southern and western sides of the Mediterranean and in the south of Spain, exceeding 50° on our own southwest coasts; lower elsewhere. Lowest (1) 11° at Luleaborg, 13° at Archangel, 18° at Helsingfors, 27° at Stockholm, 28° at St. Petersburg, (2) 28° at Kharkov, 31° to 38° over Poland, and Austria-Hungary, 36° at the Danish stations. Rising very quickly over Great Britain and the north of France later.

Wind light and very variable over the inland parts of Europe generally - anticyclonic over the Baltic, Sweden and Denmark. SE to S over the United Kingdom and the north and west of France - moderate in force at the eastern and southern stations, very strong and increasing in the west. Blowing very hard from the S over the Irish Channel and on the coasts of Great Britain later, and from the NW in the west of Ireland.

Barometer highest 30.2 ins. and more to 30.1 ins. over the south of Russia; 30.2 ins. to 30.0 ins. over Sweden, the Baltic, and the eastern half of the North Sea, and 30.1 ins. to 30.0 ins. over Algeria and the southern half of Spain. Lowest, about 29.4 ins. in the extreme southwest of Ireland, and below 29.9 ins. in shallow depressions over Central Europe and the southeast of France. A deep depression approaching the south of Ireland from the south-eastward later, and advancing quickly to the north-north-eastward during the night.

### EXPLANATION OF THE 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.

N.B.—The morning observations are made at 8 a.m. in the British Islands, Germany, Sweden, and Norway, 7 a.m. in France, Spain and Portugal, and 9 a.m. in Belgium. The evening observations are made at 6 p.m. in the British Islands (as a rule), and France, 8 p.m. at Oxford, in Sweden, Norway, and Germany, and 9 p.m. in Belgium. The time at each Station is the Standard Time of its Country.

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TERMS: For Daily Weather Report, forwarded by Book Post, £1 0 0 per annum.

" Weekly " " " £1 10 0 "



# DAILY WEATHER REPORT

for 8 a.m. on SATURDAY, 18<sup>TH</sup> NOVEMBER, 1893

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

STATIONS.		YESTERDAY EVENING. (See note at bottom of last page.)					THIS MORNING. (See note at bottom of last page.)										PAST 24 HOURS.			
		BAROM.		TEMP.		WIND.	BAROMETER.		SHADE TEMP.			WIND.		Sea (0 to 9).	Weather.	SHADE TEMP.		Amount of Rainfall.		
		Reading at 32° F. and Sea Level.	Dry Bulb.	Force (0 to 12).	Weather.		Reading at 32° F. and Sea Level.	Change since Yester- day Morn.	Dry Bulb.	Wet Bulb.	Change in dry since Yesterday.	Direc.	Force (0 to 12).			Max.	Min.			
		Inch.	°				Inch.	°	°	°						°	Inch.			
SCANDINAVIA.																				
Haparanda ...																				
Hernösand ...																				
Stockholm ...																				
Wisby ...																				
Bodö ...	29.34	32	E	0	m	29.30	0.0	32	30	-2	NE	6	0	5	72.7	41	28	—		
Christiansund...	29.26	38	E	3	P	29.34	-0.7	36	35	-1	NE	5	7	5	7	44	36	1.02		
Skudesnaes ...	29.13	45	SE	3	0	29.24	-1.2	36	35	-1	N	2	7	4	0.7	45	36	—		
Christiania Fjord (Fiorder)	29.51	40	SE	7	0	29.32	-1.4	39	38	-1	ESE	6	0	5	0	48	37	—		
Skagen (The Scaw)	29.41	40	S	7	0	29.25	-0.5	40	40	0	SSE	5	7	2	0	43	36	0.08		
Fanö ...																				
Sumburgh Head																				
Stornoway ...																				
Wick ...																				
Nairn ...	29.70	43	NNW	5	P	29.69	+0.9	35	33	-2	NNW	6	0	6	P	46	33	0.75		
Aberdeen ...																				
Leith ...	29.78	42	N	3	C	29.46	+0.8	39	39	-2	N	6	0	4	C	34	37	0.07		
Shields ...	29.83	44	SW	3	C	29.19	+0.4	41	40	-1	N	9	7	4	C	35	38	0.23		
Spurn Head ...	29.93	47	NNW	3	0	29.99	-0.4	42	41	-1	NNW	3	0	3	0.7	33	39	0.17		
York ...	29.92	47	SW	3	0	29.00	+0.9	41	40	-1	NNW	3	4	3	0	33	40	0.17		
Loughborough	29.01	42	NNW	2	0	29.09	+0.8	39	38	-1	NN	2	7	3	0	36	36	0.23		
BRITISH ISLANDS.																				
Ardrossan ...	29.81	45	NN	3	C	29.32	+0.9	38	34	-4	NNW	7	0	4	C	32	37	0.04		
Malin Head ...																				
Mullaghmore ...																				
Belmullet ...	29.43	39	NNW	7	0	29.99	+0.5	42	36	-6	N	3	0	4	C	49	33	0.40		
Donaghadee ...	29.94	48	NN	3	0	29.50	+0.7	42	38	-4	N	3	0	7	0	48	40	0.07		
Liverpool (Bidston)	29.98	43	SW	4	0	29.25	+0.3	39	37	-2	NN	7	7	7	0	32	39	0.05		
Holyhead ...	29.96	45	NNW	6	0	29.37	+0.9	41	40	-1	N	12	7	9	0.7	35	41	0.43		
Parsonstown ...	29.30	46	NN	6	7	29.74	+0.4	39	35	-4	NN	3	0	7	0.7	46	34	0.23		
Valencia ...	29.38	44	NN	8	0	29.98	+0.4	42	41	-1	NNW	3	0	6	0.7	46	36	0.17		
Roche's Point	29.35	43	NN	7	0	29.77	+0.6	41	38	-3	N	7	0	5	0.7	49	40	—		
Pembroke (St. Ann's Hd.)	29.12	45	NN	7	C	29.32	+0.4	40	40	-2	N	9	7	7	C	34	35	0.86		
Scilly ...	29.30	47	NNW	7	C	29.48	+0.2	40	40	-2	N	11	7	7	0.7	34	34	0.37		
Prawle Point ...	29.25	42	NNW	6	C	29.23	+0.1	41	39	-2	N	7	0	6	0.7	33	39	0.18		
Jersey (St. Aubin's)	29.34	33	NNW	7	C	29.12	-0.2	47	44	-3	NN	7	0	5	C	37	41	0.24		
Hurst Castle ...	29.19	43	N	7	C	29.08	-0.5	43	42	-1	NNW	4	0	5	0.7	34	40	0.12		
Dungeness ...	29.02	53	SW	6	C	29.02	-0.2	45	42	-3	NNW	3	0	5	C	35	41	0.04		
North Foreland	29.03	51	SW	2	C	29.04	-0.2	42	40	-2	SW	1	0	2	C	37	38	0.01		
London ...	29.08	44	W	3	0	29.04	-0.4	39	38	-1	NNW	2	0	3	C	38	37	0.25		
Oxford ...	29.08	39	SW	3	0	29.09	-0.3	39	38	-1	N	4	0	3	C	37	38	0.18		
Cambridge ...	29.96	51	SE	5	m	29.06	-0.8	39	35	-4	SE	1	0	3	m	39	35	0.23		
Yarmouth ...	29.98	51	SW	3	C	29.04	-0.8	38	37	-1	SW	2	0	3	C	34	35	0.01		
GERMANY & HOLLAND.																				
Cuxhaven ...	29.40	42	SE	5	0	29.12	-0.6	42	42	-2	SW	3	0	3	0	44	40	—		
Berlin ...	29.53	36	NE	4	0	29.29	-0.3	37	37	-2	SE	2	0	3	0	37	36	0.04		
Wiesbaden ...						29.28	-0.4	43	42	-1	2	0	0	0	0	40	41	0.29		
Munich ...	29.52	41	SE	2	7	29.38	-0.3	48	46	-2	SW	4	0	3	7	48	39	0.24		
The Helder ...	29.10	48	S	2	7	29.11	-0.6	42	41	-1	S	2	0	3	7	48	37	0.08		
FRANCE AND BELGIUM.																				
Brussels (9 a.m.)						29.20	-0.8	38	37	-1	SW	4	0	3	7	33	37	0.12		
Cape Gris Nez	29.10	33	SW	6	7	29.07	-0.6	46	44	-2	N	6	0	6	7	34	34	0.04		
Paris ...	29.32	33	SW	3	C	29.26	-0.6	41	39	-2	SW	3	0	3	C	60	38	0.04		
Brest ...						29.26	-0.6	41	41	-2	NN	7	0	3	7	37	37	0.17		
Lorient ...	29.49	33	NNW	6	C	29.28	-0.8	43	41	-2	NN	7	0	3	C	39	41	0.08		
Rochefort ...	29.61	33	NNW	6	0	29.57	-0.7	47	44	-3	NN	6	0	3	0	39	43	0.24		
Belfort ...																				
Lyons ...	29.59	32	S	1	bc	29.48	-0.3	46	43	-3	N	1	0	3	bc	38	46	0.12		
Nice ...	29.61	33	S	1	0	29.57	-0.6	32	30	-2	2	0	0	0	0	37	46	—		
Perpignan ...	29.70	60	W	2	bc	29.50	-0.2	33	49	+16	NN	3	0	3	bc	32	57	0.24		
Biarritz ...	29.72	61	W	5	7	29.65	-0.7	33	47	+14	W	3	0	7	7	66	43	0.62		
PENINSULA.																				
Corunna ...						29.14	+0.1	38	32	-6	NNW	4	0	3	0	66	33	0.12		
Lisbon ...	29.09	64	W	4	0															

For Explanation of Columns, see bottom of last page.

† Received too late for insertion in Charts on next page.



# WEATHER CHARTS

for 8 a.m. on Saturday, 18<sup>th</sup> Nov<sup>r</sup> 1893.

## 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 :

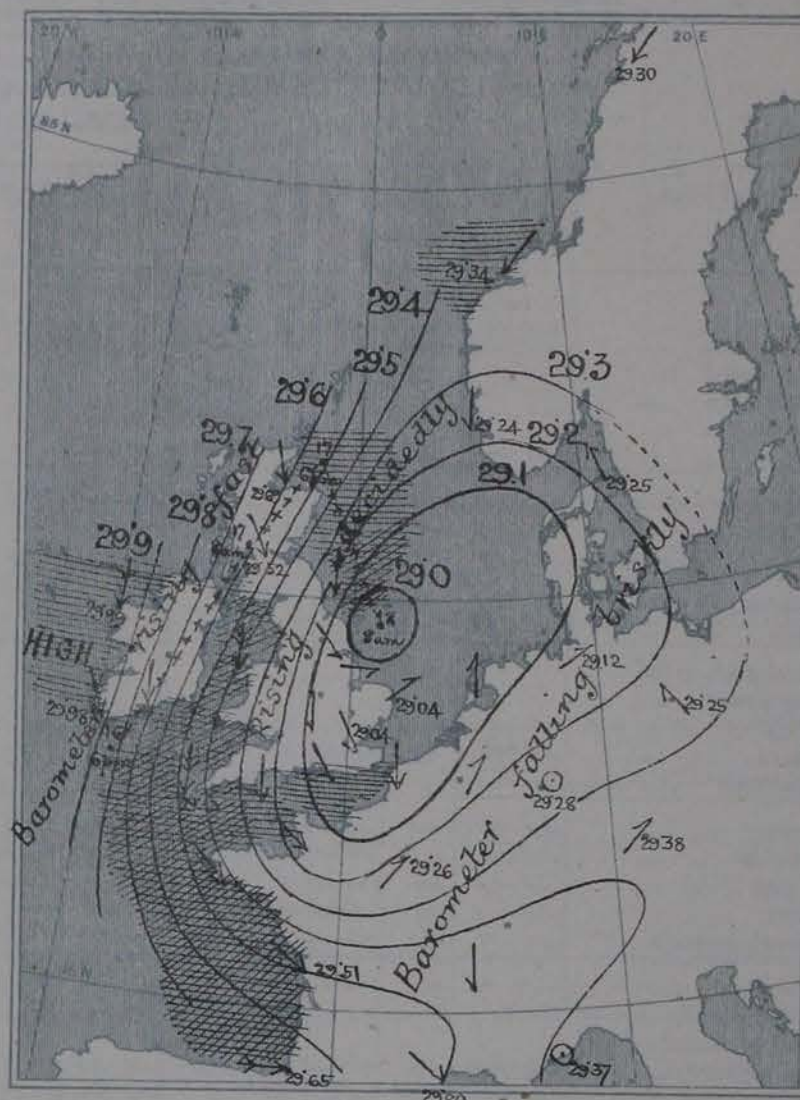
— Rough. — High.

## MEAN HEIGHT OF THE BAROMETER

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

During the 20 Years 1871—1890.

STATIONS.	MEAN READINGS.
Sumburgh Head	29.683
Stornoway	29.699
Wick	29.722
Nairn	29.738
Aberdeen	29.758
Leith	29.789
Shields	29.813
Spurn Head	29.842
York	29.846
Loughborough	29.877
Ardrossan	29.791
Mullaghmore	29.780
Donaghadee	29.810
Holyhead	29.835
Liverpool	29.851
Parsonstown	29.847
Valencia	29.865
Roche's Point	29.865
Pembroke	29.864
Seilly	29.897
Prawle Point	29.914
Jersey	29.928
Hurst Castle	29.902
Dover	29.893
LONDON	29.898
Oxford	29.896
Cambridge	29.887
Yarmouth	29.885



## 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 November.)

STATIONS.	TEMPERATURE.				RAINFALL. (Inches.)
	Daily Max.	Daily Min.	at 8 a.m.		
			Dry.	Wet.	
Sumburgh Head .....	45.6	37.8	42.0	40.3	4.16
Stornoway .....	46.2	37.0	41.7	40.7	4.70
Wick .....	46.1	36.1	41.4	39.8	2.93
Nairn .....	45.3	35.7	39.8	38.2	2.29
Aberdeen .....	46.2	36.5	40.5	38.7	3.14
Leith .....	48.1	37.0	41.7	40.0	2.20
Shields .....	47.3	37.9	42.1	40.5	2.61
Spurn Head .....	46.8	40.2	43.2	41.9	2.40
York .....	47.5	36.4	40.6	39.3	2.19
Loughborough .....	48.0	36.6	40.5	39.3	2.24
Ardrossan .....	47.8	39.1	43.1	41.3	3.88
Mullaghmore .....	49.6	41.2	45.1	43.1	4.48
Donaghadee .....	48.3	39.2	43.2	42.0	3.20
Holyhead .....	49.7	42.9	45.8	44.0	3.88
Liverpool .....	47.8	39.6	42.5	40.7	2.96
Parsonstown .....	49.1	37.1	41.9	40.2	2.83
Valencia .....	52.3	43.0	47.4	45.5	5.42
Roche's Point .....	51.1	42.0	46.1	44.5	4.62
Pembroke .....	50.1	43.8	46.9	45.1	4.04
Seilly .....	52.4	46.7	50.0	48.0	3.72
Prawle Point .....	51.1	41.9	46.2	44.7	3.20
Jersey .....	51.9	44.1	47.7	45.8	4.30
Hurst Castle .....	50.5	40.6	44.9	44.0	3.01
Dover .....	49.3	40.6	44.3	42.8	3.48
LONDON .....	49.3	38.0	42.2	40.8	2.23
Oxford .....	48.2	37.6	41.2	40.0	2.31
Cambridge .....	48.6	35.8	40.7	39.9	2.01
Yarmouth .....	47.5	39.0	43.1	42.0	3.06

NOTE.—The Temperature means are for the 20 years 1871-90, the Rainfall means are mainly those for the 25 years 1866-90.





# GENERAL SITUATION AT 8 A.M.

## PRESSURE

Highest, 29.9 ins: and more in the extreme west of Ireland; 29.3 ins: in the north of Norway.  
 Lowest, below 29.0 ins: in a depression off the Yorkshire coast, and below 29.1 ins: over the estuary of the Thames.  
 Gradients extremely steep over the western and northern parts of the United Kingdom, slight over the North Sea.  
 Barometer rising rapidly in the north and northwest, and the rise is spreading.

## TEMPERATURE

Highest, 52° to 53° in the south of France, 40° to 43° on our eastern and southern coasts and in Holland.  
 Lowest, 32° at Bodo, 35° at Narvik, 38° at Androsow.  
 It has changed very fitfully in all districts during the preceding 24 hours, and is inclined to fall generally at 8 am.

## WIND

N<sup>th</sup> over all but the most eastern parts of our Islands and the North Sea, and is blowing a very severe gale on the shores of the Irish Sea and the St. George's and Bristol Channels, as well as at the mouth of the Tyne. On the Norfolk and Kent coasts it is very light from S.W.  
 The gale in the west has been blowing very hard all night, and appears to be spreading southeastwards.

## WEATHER

Exceedingly unsettled - very squally and showery, except over our eastern coasts, where it is temporarily fair.  
 Rain has again fallen generally - heavily at Brest and Christianaund - hail in the west of Ireland and at the Channel stations.

## SEA

Very high on our western and northeastern coasts, and on the northwest coast of France, slight at Yarmouth and the North Foreland.

## PROBABLE CHANGES IN SYSTEM NOW PREVALENT

The depression appears to be now moving southeastwards, and the N<sup>th</sup> gale is likely to become general, with cold showers. Our east and south coasts have again been warned (Many of our northern reports are wanting.)

## FORECASTS

For the 24 hours ending at NOON on 19<sup>th</sup> Nov<sup>r</sup> 1893.

DISTRICTS.	FORECASTS.	DISTRICTS.	FORECASTS.
0 SCOTLAND NORTH	Strong N <sup>th</sup> gales, moderating slowly; squally, snow showers	6 SCOTLAND WEST	Same as N <sup>o</sup> 0
1 SCOTLAND EAST		7 ENGLAND N.W.	
2 ENGLAND N.E.		8 ENGLAND S.W.	
3 ENGLAND EAST	Wind shifting to N and blowing hard, very squally and showery, colder.	9 IRELAND NORTH	
4 MIDLAND COUNTIES		10 IRELAND SOUTH	All our coasts were warned on Thursday and our east and south coasts have been re-warned this morning - North Cone
5 ENGLAND SOUTH		WARNINGS	

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



# YESTERDAY'S 2 P.M. REPORTS.

	BAR.	THER.		WIND.	F.	WEA.	SEA.		BAR.	THER.		WIND.	F.	WEA.	SEA.
		Dry.	Wet.	Dirac.						Dry.	Wet.	Dirac.			
Skudesnaes ...	29.25	48	40	SE	9	0	A	Valencia ...	29.35	44	43	NW	8	qpf	6
Sumburgh Head ...	29.70	47	47	SE	4	7	7	Scilly ...	29.34	53	49	NW	8	cq	6
Stornoway ...	29.21	40	40	NW	8	7	6	Jersey ...	29.27	55	53	NW	7	cq	5
Aberdeen ...	29.53	42	41	NW	7	0	8	Hurst Castle ...	29.11	53	52	NW	6	cdm	6
Shields ...	29.80	50	47	NW	7	6	3	Dungeness ...	29.16	52	53	NW	5	c	5
Ardrossan ...	29.76	47	46	NW	6	6	4	North Foreland ...	29.18	53	52	NW	2	bcg	2
Malin Head ...	29.84	42	42	NW	8	0	5	London ...	29.08	58	53	NW	4	c	*
Mullaghmore ...								Yarmouth ...	29.07	54	53	NW	3	cqm	4
Belmullet ...	29.28	42	39	NW	8	cq	*	Rochefort ...	29.61	58	56	N	6	0	*
Holyhead ...	29.01	44	43	NW	8	7	6								

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

Weather in morning fine in the extreme south of Europe, cloudy or overcast almost everywhere else; quiet and fair as a whole over Russia, Germany, and southeastern Europe, extremely unsettled over all the northwestern countries, very squally and rainy over British Islands, Rain falling later in all parts of western Europe, hail in the west and southwest of our Islands and over Brittany; amount of 1.0 inch at Christiansund, 0.8 inch at Narvik, and 2.0 ins. at Alesund.

Temperature changing very suddenly over Western Europe. Morning readings spreading 60° on the Spanish coast, and the southern side of the Mediterranean, and ranging from 50° to 55° over the greater part of France and England, but below 50° over Ireland, Scotland and Norway. Lowest, 11° at Archangel, 23° at Riga, 27° at St. Petersburg, Moscow, and Kharkov, 31° at Warsaw, and below 40° over Central Europe generally. Touching 58° over the southeast of England during the day and 60° at Paris, but falling quickly later.

Wind light from between E. and SE. over Central Europe, S over the Baltic, fresh to a gale from S. and SW. over Scandinavia; well defined cyclonic circulation over the British Islands and their neighbourhood, the direction being NW in the west, W in the south, S in the east, and SSE in the north — the force a strong breeze to a fresh gale. Severe NW and N gales becoming general at our western and northern stations later, but wind falling light from SW. in the northeast and east of England.

Barometer highest (1) 30.3 ins. and more to 30.0 ins. over Russia, the Baltic, and Poland; (2) 30.2 ins. and more to 29.8 ins. over the Spanish Peninsula, Algeria, and the southern parts of the Mediterranean. Lowest, 28.6 ins. and less, in a deep depression over the west of Scotland, and below 29.6 ins. over Switzerland and the southeastern parts of France. Depression moving northwards to the Moray Firth by 6 p.m., but subsequently moving southwards to the North Sea. Secondary disturbances appearing in most parts of the Kingdom.

### EXPLANATION OF THE 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.  
N.B.—The morning observations are made at 8 a.m. in the British Islands, Germany, Sweden, and Norway, 7 a.m. in France, Spain and Portugal, and 9 a.m. in Belgium. The evening observations are made at 6 p.m. in the British Islands (as a rule), and France, 8 p.m. at Oxford, in Sweden, Norway, and Germany, and 9 p.m. in Belgium. The time at each Station is the Standard Time of its Country.

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# DAILY WEATHER REPORT

for 8 a.m. on Sunday 19<sup>th</sup> November, 1893

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

STATIONS.		YESTERDAY EVENING. (See note at bottom of last page.)					THIS MORNING. (See note at bottom of last page.)										PAST 24 HOURS.				
		Barom.	Temp.	Wind.		Weather.	Barometer.		Shade Temp.			Wind.		Sea (0 to 9).	Weather.	Shade Temp.		Amount of Rainfall.			
				Reading at 32° F. and Sea Level.	Dry Bulb.		Direc.	Force (0 to 12).	Reading at 32° F. and Sea Level.	Change since Yester- day Morn.	Dry Bulb.	Wet Bulb.	Change in dry since Yesterday.			Direc.	Force (0 to 12).		Max.	Min.	
		Inch.	°				Inch.		°	°	°						°	Inch.			
SCANDINAVIA.	Haparanda ...	29.41	33	SW	2	r	29.44	+ .06	26	26	—	10	N	2	S	#	r	36	26	0.25	
	Hernösand ...	29.34	37	S	2	o	29.52	+ .05	29	28	—	7	N	6	S	#	o	37	?	0.24	
	Stockholm ...	29.28	38	Z	0	r	29.45	— .08	37	37	—	2	Z	0	f	#	r	41	28	0.12	
	Wisby ...	29.29	39	SSE	4	r	29.25	— .25	38	?	—	1	SSE	2	o	#	r	39	34	0.08	
	Bodö ...	29.54	28	NE	2	bc	29.74	+ .44	28	25	—	4	N	6	S	3	bc	32	22	—	
	Christiansund...	29.55	34	NNE	5	S	29.90	+ .56	32	31	—	4	NE	2	c	4	S	36	28	0.16	
	Skudesnaes ...	29.23	38	N	4	o	29.63	+ .24	37	36	+	1	N	4	o	2	o	39	36	—	
	Christiania Fjord (Færdar)	29.21	39	NE	2	r	29.55	+ .23	25	32	—	4	NNE	8	o	2	r	39	35	—	
	Skagen (The Seaw)	29.14	39	SE	3	r	29.42	+ .17	40	39	—	0	ENE	4	o	2	r	42	37	0.32	
	Fanö ...	29.14	42	SW	4	c	29.30	+ .20	39	38	+	1	E	3	m	#	c	45	37	0.04	
BRITISH ISLANDS.	Sumburgh Head	29.72	30	N	6	o	30.02	+ .44	30	28	+	2	N	5	c	7	o	31	27	0.01	
	Stornoway ...	29.97	32	N	7	S	30.20	+ .35	33	32	—	0	N	6	o	6	S	34	28	0.12	
	Wick ...	29.82	30	N	8	bc	30.04	+ .39	34	34	+	1	N	7	ou	6	bc, sp	35	27	0.10	
	Nairn ...	29.88	31	NNW	4	c	30.10	+ .41	33	33	—	2	NNE	5	o	4	esp	35	28	0.02	
	Aberdeen ...	29.72	32	NNW	9	bc	29.96	+ .52	33	32	—	2	NNE	7	c	8	bc, sp	35	28	0.05	
	Leith ...	29.87	29	NNW	5	b	30.00	+ .54	33	33	—	6	N	5	bcq	#	b	39	29	—	
	Shields ...	29.58	35	N	8	o	29.78	+ .39	36	33	—	5	NNW	7	chsp	#	o	42	27	0.37	
	Spurn Head ...	29.27	40	N	10	sp	29.55	+ .56	38	37	—	4	N	8	opq	7	sp, m	45	33	0.70	
	York ...	29.47	33	N	8	S	29.73	+ .73	31	30	—	10	NNW	4	S	#	r, S	45	28	0.55	
	Loughborough	29.48	31	NNW	7	S	29.73	+ .64	30	28	—	9	NN	5	bcq	#	S	42	29	0.47	
GERMANY & HOLLAND.	Ardrossan ...	29.86	33	N	4	bc	30.08	+ .56	32	31	—	6	NNW	4	b	2	bc	39	30	—	
	Malin Head ...	29.91	40	N	7	o	30.13	—	37	36	—	—	N	7	ohp	4	o	41	36	0.01	
	Mullaghmore ...	30.14	42	NNW	6	c	30.25	+ .26	42	37	—	0	NNW	6	o	#	c	47	36	0.03	
	Belmullet ...	29.88	38	N	8	c	30.08	+ .58	37	33	—	5	NNE	8	bc	6	c	42	35	0.03	
	Donaghadee ...	29.88	38	N	8	c	30.08	+ .58	37	33	—	5	NNE	8	bc	6	c	42	35	0.03	
	Liverpool (Bldston)	29.71	34	NNW	7	o	29.92	+ .67	33	32	—	6	NNW	6	b	6	o	40	31	0.07	
	Holyhead ...	29.79	39	NNE	8	c	29.96	+ .59	37	34	—	4	NNE	9	bcq	8	c	42	34	—	
	Parsonstown ...	30.04	38	NN	2	c	30.10	+ .42	35	33	—	4	NN	2	o	#	c, S	40	32	—	
	Valencia ...	30.14	45	N	8	c	30.22	+ .44	44	41	+	2	N	7	cq	5	c	46	40	0.10	
	Roche's Point	30.01	41	N	7	b	30.15	+ .38	39	36	—	2	N	5	bc	4	b	44	36	—	
FRANCE AND BELGIUM.	Pembroke (St. Ann's Hd.)	29.73	42	N	9	c	29.93	+ .61	36	35	—	4	NNE	7	cq	6	c	43	31	0.50	
	Scilly ...	29.76	45	N	9	c	29.91	+ .48	43	38	+	3	N	3	c	7	cq	45	38	0.01	
	Prawle Point ...	29.63	36	NNW	4	o	29.86	+ .63	31	30	—	10	NNW	6	b	5	op	44	30	—	
	Jersey (St. Aubin's)	29.44	39	NN	8	o	29.69	+ .61	34	31	—	9	NNW	8	b	6	r, S	44	30	0.10	
	Hurst Castle ...	29.44	33	N	10	S	29.69	+ .61	34	31	—	9	NNW	8	b	6	r, S	44	30	0.10	
	Dungeness ...	29.18	39	N	4	r	29.44	+ .41	33	33	—	12	N	7	o	6	r, sq	47	32	0.35	
	North Foreland	29.15	39	W	3	c	29.42	+ .38	39	37	—	3	N	7	c	7	bc, cu	44	36	0.21	
	London ...	29.30	34	NNW	9	op, r	29.59	+ .55	32	31	—	7	NNW	8	o	#	o, sp, r, sp	42	31	0.21	
	Oxford ...	29.49	28	NN	9	S	29.70	+ .61	29	28	—	10	N	4	bq	#	r, sq	40	28	0.30	
	Cambridge ...	29.29	34	NNW	9	S	29.59	+ .53	30	30	—	9	NNW	7	S	#	S	44	29	0.80	
PENINSULA.	Yarmouth ...	29.12	40	W	1	bc	29.43	+ .39	39	37	+	1	N	7	r, q	7	b, bc, m	44	36	0.73	
	Cuxhaven ...	29.23	39	SW	1	c	29.18	— .02	38	37	—	4	SE	1	o	#	c	44	37	—	
	Berlin ...	29.20	41	SE	2	o	29.21	— .04	39	38	+	2	NNE	1	r	#	o	45	37	0.20	
	Wiesbaden ...	29.27	38	SE	2	o	29.24	— .04	38	34	—	8	Z	0	o	#	#	45	34	—	
	Munich ...	29.27	33	Z	0	S	29.16	— .22	33	33	—	15	W	3	S	#	S	48	32	0.83	
	The Helder ...	29.21	38	S	1	b	29.30	+ .19	42	40	—	0	NNE	5	b	3	b	45	34	0.08	
	Brussels (8 a.m.)	29.29	41	Z	0	r	29.29	+ .09	35	35	—	3	NNE	1	c	#	r	46	33	0.04	
	Cape Gris Nez	29.16	41	Z	0	r	29.33	— .26	38	37	—	8	N	9	r	9	r	46	34	0.28	
	Paris ...	29.09	41	WSW	2	o	29.25	— .00	38	37	—	3	NN	3	r	#	o	44	37	0.12	
	Brest ...	29.55	41	N	7	r	29.29	— .00	40	39	—	1	NNW	6	T	4	r	54	36	0.47	
FRANCE AND BELGIUM.	Lorient ...	29.55	45	NNW	7	c	29.89	+ .51	40	34	—	3	NNW	6	bc	4	c	48	36	—	
	Rochefort ...	29.41	47	NNW	6	bc	29.63	+ .12	39	39	—	8	N	6	c	#	bc	55	36	0.08	
	Belfort ...	29.34	41	NN	2	c	29.36	— .07	34	34	—	5	NN	2	m	#	c	46	32	0.24	
	Lyons ...	29.14	48	WSW	1	S	29.06	— .31	35	33	—	11	W	3	o	#	S	50	35	0.04	
	Nice ...	29.14	48	NN	4	c	29.06	— .31	44	34	—	8	NN	5	bc	3	c	57	41	0.08	
	Perpignan ...	29.49	48	NN	3	b	29.54	+ .04	42	37	—	11	NN	5	o	#	b	56	41	—	
	Biarritz ...	29.49	48	NN	3	b	29.54	+ .04	42	37	—	11	NN	5	o	#	b	56	41	—	
	Corunna ...	30.00	52	N	3	bc	30.19	+ .05	55	50	—	3	NNW	4	o	#	#	61	52	—	
	Lisbon ...	30.00	52	N	3	bc	30.19	+ .05	55	50	—	3	NNW	4	o	#	#	61	52	—	
	Lisbon ...	30.00	52	N	3	bc	30.19	+ .05	55	50	—	3	NNW	4	o	#	#	61	52	—	

For Explanation of Columns, see bottom of last page.

† Received too late for insertion in Charts on next page.



# WEATHER CHARTS

for 8 a.m. on Sunday, 19<sup>th</sup> Nov<sup>r</sup> 1893.

## 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:

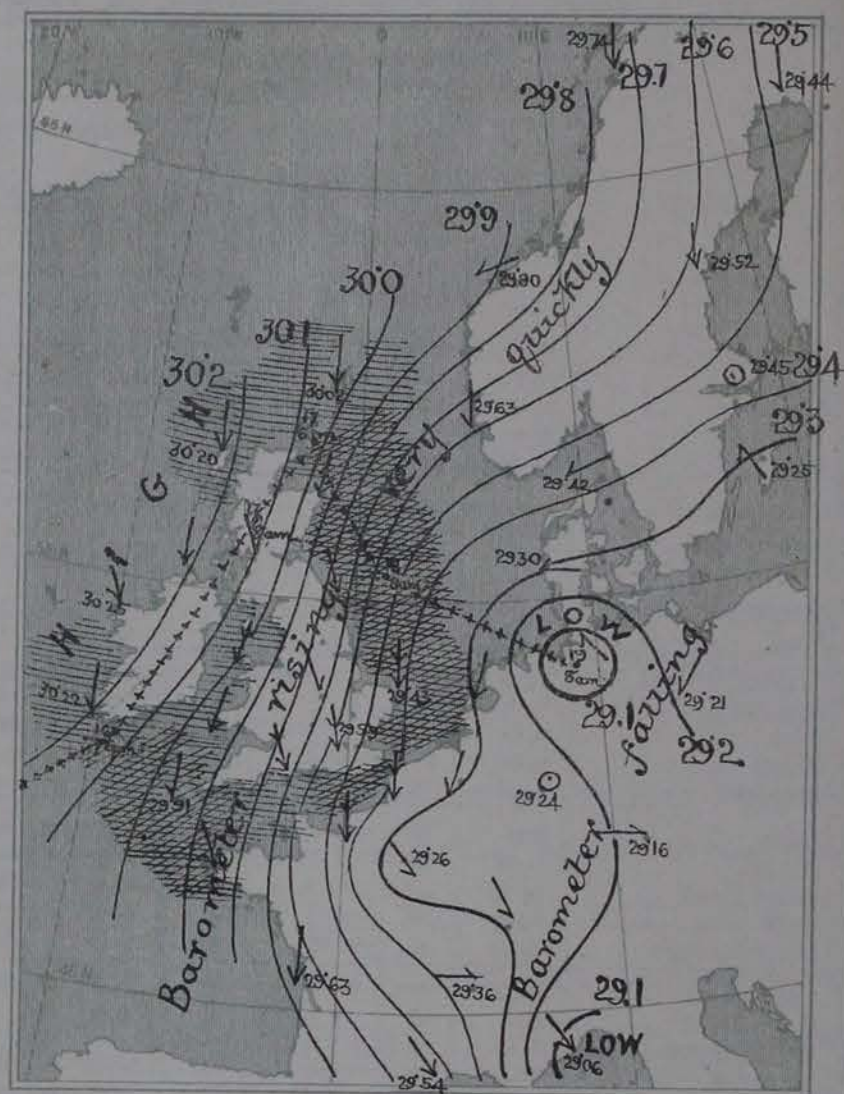
— = Rough. — = High.

## MEAN HEIGHT OF THE BAROMETER

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

During the 20 Years 1871—1890.

STATIONS.	MEAN READINGS.
Sumburgh Head	29.683
Stornoway	29.689
Wick	29.722
Nairn	29.738
Aberdeen	29.758
Leith	29.789
Shields	29.813
Spurn Head	29.842
York	29.846
Loughborough	29.877
Ardrossan	29.791
Mullaghmore	29.780
Donaghadee	29.810
Holyhead	29.835
Liverpool	29.851
Parsonstown	29.847
Valencia	29.865
Roche's Point	29.865
Pembroke	29.864
Scilly	29.897
Prawle Point	29.914
Jersey	29.928
Hurst Castle	29.902
Dover	29.893
LONDON	29.898
Oxford	29.896
Cambridge	29.887
Yarmouth	29.865



## 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 November.)

STATIONS.	TEMPERATURE.				RAINFALL (Inches.)
	Daily Max.	Daily Min.	at 8 a.m.		
			Dry.	Wet.	
Sumburgh Head	45.6	37.8	42.0	40.3	4.10
Stornoway	46.2	37.0	41.7	40.7	4.70
Wick	46.1	36.1	41.4	39.8	2.93
Nairn	45.3	35.7	39.8	38.2	2.29
Aberdeen	46.2	36.5	40.5	38.7	3.14
Leith	48.1	37.0	41.7	40.0	2.20
Shields	47.3	37.9	42.1	40.5	2.61
Spurn Head	46.8	40.2	43.2	41.9	2.46
York	47.5	36.4	40.6	39.3	2.19
Loughborough	48.0	36.6	40.5	39.3	2.24
Ardrossan	47.8	39.1	43.1	41.3	3.88
Mullaghmore	49.6	41.2	45.1	43.1	4.48
Donaghadee	48.3	39.2	43.2	42.0	3.20
Holyhead	49.7	42.9	45.8	44.0	3.88
Liverpool	47.8	39.6	42.5	40.7	2.96
Parsonstown	49.1	37.1	41.9	40.2	2.83
Valencia	52.3	43.0	47.4	45.5	5.42
Roche's Point	51.1	42.0	46.1	44.5	4.62
Pembroke	50.1	43.8	46.9	45.1	4.04
Scilly	52.4	46.7	50.0	48.0	3.72
Prawle Point	51.1	41.9	46.2	44.7	3.20
Jersey	51.9	44.1	47.7	45.8	4.30
Hurst Castle	50.5	40.6	44.9	44.0	3.01
Dover	49.3	40.6	44.3	42.8	3.48
LONDON	49.3	38.0	42.2	40.8	2.23
Oxford	48.2	37.6	41.2	40.0	2.31
Cambridge	48.6	35.8	40.7	39.9	2.01
Yarmouth	47.5	39.0	43.1	42.0	3.06

NOTE.—The Temperature means are for the 20 years 1871-90, the Rainfall means are mainly those for the 25 years 1868-90.





# GENERAL SITUATION AT 8 A.M.

## PRESSURE

Highest, 30.2 ins: and more to 30.0 ins: over Ireland, the northwestern half of Scotland and adjacent parts of the Atlantic.  
 Lowest, { 29.1 ins: and less, in depressions over the Netherlands and the south of France.  
 { 29.2 ins: and less, in another disturbance over the Baltic, and below 29 ins: in a secondary over the northeast of France.  
 Gradients very steep over our Islands, and the north, the west, and south of France, rather so on the eastern side of the North Sea.  
 Barometer rising over the United Kingdom and Scandinavia, falling over Germany, Switzerland, and the southeast of France.

## TEMPERATURE

Highest, 55° at Lisbon, 44° at Valencia, 43° at Seville (Jersey report not in).  
 Lowest, { Below 40° over the British Isles, France and Germany as a whole, 26° at Haparanda, 28° at Bodö, 29° at Helsingfors and at  
 Oxford, 30° at Lumburg, 31° at Thiers, 32° at Loughborough and Cambridge, 33° at Munich, 35° at Lyons.  
 Fallen very considerably over our Islands and France, freezing sharply at times.

## WIND

N<sup>W</sup> over the United Kingdom and Western Europe as a whole and blowing a hard gale on the English coast and over the north of France, and a fresh to strong gale in Ireland and Scotland; strong to a gale over Scandinavia also.  
 Gales unusually severe over Irish Sea during preceding 24 hours and over the greater part of England during the night.

## WEATHER

Very unsettled. Heavy squalls and occasional falls of snow and cold rain in most places.  
 Amounts recorded since yesterday 0.6 inch at York, 0.7 inch at Lumburg and Harwich, 0.8 inch at Cambridge and also at Munich.

## SEA

Very high in the north, east, and southeast, high in the west, very rough in the south.

## PROBABLE CHANGES IN SYSTEM NOW PREVALENT

# FORECASTS

For the 24 hours ending at NOON on 20<sup>th</sup> November 1893.

DISTRICTS.	FORECASTS.	DISTRICTS.	FORECASTS.
0 SCOTLAND NORTH	None issued	6 SCOTLAND WEST	None issued.
1 SCOTLAND EAST		7 ENGLAND N.W.	
2 ENGLAND N.E.		8 ENGLAND S.W.	
3 ENGLAND EAST		9 IRELAND NORTH	
4 MIDLAND COUNTIES		10 IRELAND SOUTH	
5 ENGLAND SOUTH		WARNINGS	All our coasts were warned on Thursday, and our eastern and southern coasts were again warned yesterday morning.

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.	F.	WEA.	SEA.		BAR.	THER.		WIND.	F.	WEA.	SEA.
		Dry.	Wet.	Dir.						Dry.	Wet.	Dir.			
Skudesnaes ...	29.24	38	31	N	2	r	2	Valencia ...	30.09	44	42	N	8	cqzorp	6
Sumburgh Head ...	29.66	30	28	N	8	bcsp	6	Scilly ...	29.64	45	41	N	10	sq	7
Stornoway ...	29.94	33	32	N	7	o	6	Jersey ...	29.28	45	43	NN	7	o	5
Aberdeen ...	29.65	32	29	NNW	9	cqu	9	Hurst Castle ...	29.22	40	40	NNE	6	omq	5
Shields ...	29.44	37	34	N	9	o	8	Dungeness ...	29.10	45	41	NNE	3	cq	3
Ardrossan ...								North Foreland ...	29.12	44	42	W	2	ba	2
Malin Head ...								London ...	29.18	39	38	NNW	5	org	*
Mullaghmore ...								Yarmouth ...	29.08	44	42	W	2	b	3
Belmullet ...	30.09	42	37	NNW	7	opq	*	Rochefort ...	29.45	48	46	NNW	6	c	*
Holyhead ...	29.67	40	?	NNE	11	cmq	9								

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

Weather in morning extremely rough and stormy over all the northern and western parts of the British Islands, and becoming so on the coasts of Brittany and the west of France, with snow, hail, and rain squalls in many places; comparatively quiet in the east and south of England, and on the eastern shores of the North Sea, quiet over the Baltic, eastern, central, and southern Europe. Rough weather spreading over the east and southeast of England later, and continuing with great severity in the west and north.

Temperature fallen over our Islands and France, risen a little over Central Europe. Morning readings highest 60° and more over the southern side of the Mediterranean, 50° and more over Southern Europe, and 40° or more on our western and south-eastern coasts; below 40° elsewhere. Lowest 25° to 30° over Russia, 28° at Sumburgh Head, 32° at Porto, 33° to 35° on the Scotch coasts, as well as over Poland, 38° over Central England. Changing very irregularly over England later, but falling as a whole — fast at night.

Wind N<sup>2</sup> over all our western and northern districts, and blowing a severe gale (force 12 at Holyhead, 11 at Lally and Wick); NW<sup>1</sup>, a gale, and increasing on the coasts of Brittany; W<sup>2</sup>, a gale, at Biarritz; SW<sup>1</sup>, light on the coasts of Norfolk, Kent, and Holland; SE<sup>1</sup>, moderate to strong over Denmark, the south of Norway and over the Baltic. Wind light over southeastern, eastern, and central Europe. Heavy N<sup>1</sup> gale extending to east and south of England and north of France later — blowing unusually hard in the squalls; strong NW<sup>1</sup> gale over Bay of Biscay.

Barometer highest 30.3 ins. and more to 29.7 ins. over Russia, 30.1 ins. and more to 29.9 ins. over the south-eastern half of Spain, and 29.9 ins. and more over the west of Ireland. Lowest 29.0 ins. and less, in a deep and complex depression over the North Sea and east of England, and below 29.4 ins. in the southeast of France. Depression moving south-eastwards later and becoming still more complex. Barometer rising fast but very unsteadily over the United Kingdom; falling at times in some localities.

### EXPLANATION OF THE 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.  
N.B.—The morning observations are made at 8 a.m. in the British Islands, Germany, Sweden, and Norway, 7 a.m. in France, Spain and Portugal, and 9 a.m. in Belgium. The evening observations are made at 6 p.m. in the British Islands (as a rule), and France, 8 p.m. at Oxford, in Sweden, Norway, and Germany, and 9 p.m. in Belgium. The time at each Station is the Standard Time of its Country.

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# DAILY WEATHER REPORT

for 8 a.m. on MONDAY. 20th NOVEMBER. 1893

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

STATIONS.	YESTERDAY EVENING. (See note at bottom of last page.)						THIS MORNING. (See note at bottom of last page.)										PAST 24 HOURS.			
	Barom.	Temp.	Wind.		Weather.	Force (0 to 12).	Barometer.		Shade Temp.			Wind.		Force (0 to 12).	Weather.	Sea (0 to 9).	Weather.	Shade Temp.		Amount of Rainfall.
			Reading at 32° F. and Sea Level.	Dry Bulb.			Dirac.	Change since Yester- day Morn.	Dry Bulb.	Wet Bulb.	Change in dry since Yesterday.	Dirac.	Max.					Min.		
	Inch.	°					Inch.	°	°	°								°	in.	
SCANDINAVIA.	Haparanda ...	29.78	14	NW	2	b	29.98	+20	7	7	-19	N	2	b	*	b	34	2	0.04	
	Hernösand ...	30.02	24	NW	6	b	30.21	+19	16	15	-13	N	0	b	*	b	37	2	—	
	Stockholm ...	29.92	31	N	4	o	30.19	+27	26	24	-11	NNW	2	o	*	o	41	2	—	
	Wisby ...	29.82	37	NNE	8	T	30.07	+25	34	30	-4	ENE	6	b	*	T	41	24	0.04	
	Bodö ...	30.02	37	NW	4	b	29.82	+08	32	31	+4	SW	6	s	*	b.s	2	25	—	
	Christiansund...	30.20	33	NNE	3	o	30.26	+36	34	33	+2	SW	3	o	4	o	34	30	0.08	
	Skudesnaes ...	30.11	35	N	2	b	30.34	+21	30	27	-7	NNE	2	b	1	b	37	30	—	
	Christiania Fjord (Færder)	30.03	33	NNE	8	b	30.28	+23	31	28	-4	NNE	6	b	1	b	36	30	—	
	Skagen (The Scaw)	29.96	34	NE	3	b	30.21	+24	32	31	-1	E	2	b	2	b	41	30	—	
	Fanö ...	29.77	37	ENE	6	c	30.04	+27	31	28	-8	ENE	6	b	*	c	43	30	—	
BRITISH ISLANDS.	Sumburgh Head	30.30	33	N	4	s	30.45	+25	35	34	+2	N	2	o	3	o.s	36	30	0.05	
	Stornoway ...	30.30	33	N	4	s	30.45	+25	35	34	+2	N	2	o	3	o.s	36	30	0.05	
	Wick ...	30.37	37	ENE	2	c	30.44	+24	37	36	+4	NNE	2	o	2	c	37	32	—	
	Nairn ...	30.20	36	N	6	c	30.41	+25	35	34	+2	NNW	3	c	5	c	37	32	0.03	
	Aberdeen ...	30.15	34	NNW	4	o	30.39	+23	33	36	+6	N	3	o	*	ohp	39	32	—	
	Leith ...	30.00	42	N	7	ohp	30.24	+24	43	38	+7	N	6	o	7	ohp	43	30	0.04	
	Shields ...	29.77	42	N	9	ohp	30.03	+26	42	40	+4	NE	6	ohp	6	ohp	46	34	0.07	
	Spurn Head ...	29.90	41	N	3	o	30.20	+30	33	37	+4	N	2	bc	*	o	41	30	0.08	
	York ...	29.83	39	N	3	o	30.12	+23	37	34	+7	N	3	ohp	*	o	40	30	0.06	
	Loughborough	29.83	39	N	3	o	30.12	+23	37	34	+7	N	3	ohp	*	o	40	30	0.06	
GERMANY & HOLLAND.	Ardrossan ...	30.21	37	N	3	b	30.41	+20	34	33	+2	N	1	b	1	b	33	32	—	
	Malin Head ...	30.21	40	NNE	6	ohp	30.41	+20	40	36	+3	NNE	4	o	2	ohp	41	36	—	
	Mullaghmore ...	30.30	42	N	5	o	30.44	+13	38	37	-4	E	2	bc	*	o	43	37	0.02	
	Belmullet ...	30.20	41	NNE	7	c	30.37	+17	40	39	+6	NNE	8	b	6	c	43	32	—	
	Donaghadee ...	30.20	41	NNE	7	c	30.37	+17	40	39	+6	NNE	8	b	6	c	43	32	—	
	Liverpool (Bidston)	30.02	39	N	5	c	30.24	+22	37	37	+4	N	3	bc	4	c	33	33	0.01	
	Holyhead ...	30.06	40	NNE	7	c	30.25	+19	43	40	+6	NNE	6	c	6	c	43	34	—	
	Parsonstown ...	30.26	34	N	0	ohp	30.41	+15	37	26	-1	SW	1	bc	*	ohp	33	35	—	
	Valencia ...	30.29	41	NNE	4	c	30.42	+13	38	33	-9	ENE	3	o	3	c	44	32	—	
	Roche's Point	30.23	37	N	5	b	30.32	+17	37	34	-2	N	4	c	4	b	41	33	—	
FRANCE AND BELGIUM.	Pembroke (St. Ann's Hd.)	30.00	39	NE	6	c	30.19	+26	41	39	+5	NNE	5	c	3	c	42	36	0.02	
	Scilly ...	29.98	41	N	8	c	30.11	+13	45	40	+2	NNE	6	c	6	c	46	38	—	
	Prawle Point ...	29.88	34	N	6	b	30.06	+10	36	35	+5	NNE	6	b	5	b	44	30	—	
	Jersey (St. Aubin's)	29.78	40	NNW	7	c	29.90	+12	46	42	+7	N	6	ohp	5	ohp	46	37	0.07	
	Hurst Castle ...	29.75	36	N	7	o	29.85	+10	41	39	+7	N	7	bc	6	o	42	30	0.01	
	Dungeness ...	29.54	37	N	6	c	29.76	+22	45	42	+12	NE	7	o	7	c	45	32	0.11	
	North Foreland	29.54	40	N	6	o	29.84	+30	44	43	+5	NE	7	ohp	7	ohp	45	38	0.17	
	London ...	29.67	34	N	4	o	29.93	+26	41	39	+9	NE	7	c	*	ohp	43	29	0.11	
	Oxford ...	29.84	38	N	5	o	30.03	+19	37	36	+10	NNE	5	ohp	*	ohp	39	29	0.02	
	Cambridge ...	29.72	39	NNW	8	s	30.01	+29	42	38	+12	NNW	7	ohp	*	ohp	42	29	0.17	
PENINSULA.	Yarmouth ...	29.54	43	NNE	7	c	29.92	+38	43	40	+4	NE	8	c	7	c	45	37	0.17	
	Cuxhaven ...	29.57	39	NE	6	bc	29.81	+24	39	38	+1	NE	7	o	*	bc	42	38	0.04	
	Berlin ...	29.28	43	NE	3	T	29.66	+38	43	43	+4	E	7	T	*	T	45	39	0.75	
	Wiesbaden ...	29.25	38	SW	5	*	29.53	+28	36	35	0	NW	2	o	*	*	41	34	0.43	
	Munich ...	29.25	38	SW	5	o	29.53	+28	36	35	-7	NE	2	bc	*	o	41	34	0.43	
	The Helder ...	29.63	45	NE	6	o	29.88	+25	42	40	+2	NE	9	c	4	o	45	41	0.24	
	Brussels (9 a.m.)	*	*	*	*	*	29.62	+33	37	37	+2	NNE	7	T	*	T	42	34	0.07	
	Cape Gris Nez	*	*	*	*	*	29.52	+26	40	38	+2	N	5	o	*	o	40	37	0.03	
	Paris ...	29.51	37	NNW	3	c	29.52	+26	40	38	+2	N	5	o	3	c	40	38	0.04	
	Brest ...	29.81	36	N	6	bc	29.83	+02	46	43	+6	N	6	o	4	bc	46	36	—	

For Explanation of Columns, see bottom of last page.

† Received too late for insertion in Charts on next page.



# WEATHER CHARTS

for 8 a.m. on Monday, 20<sup>th</sup> Nov<sup>r</sup> 1893.

## 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

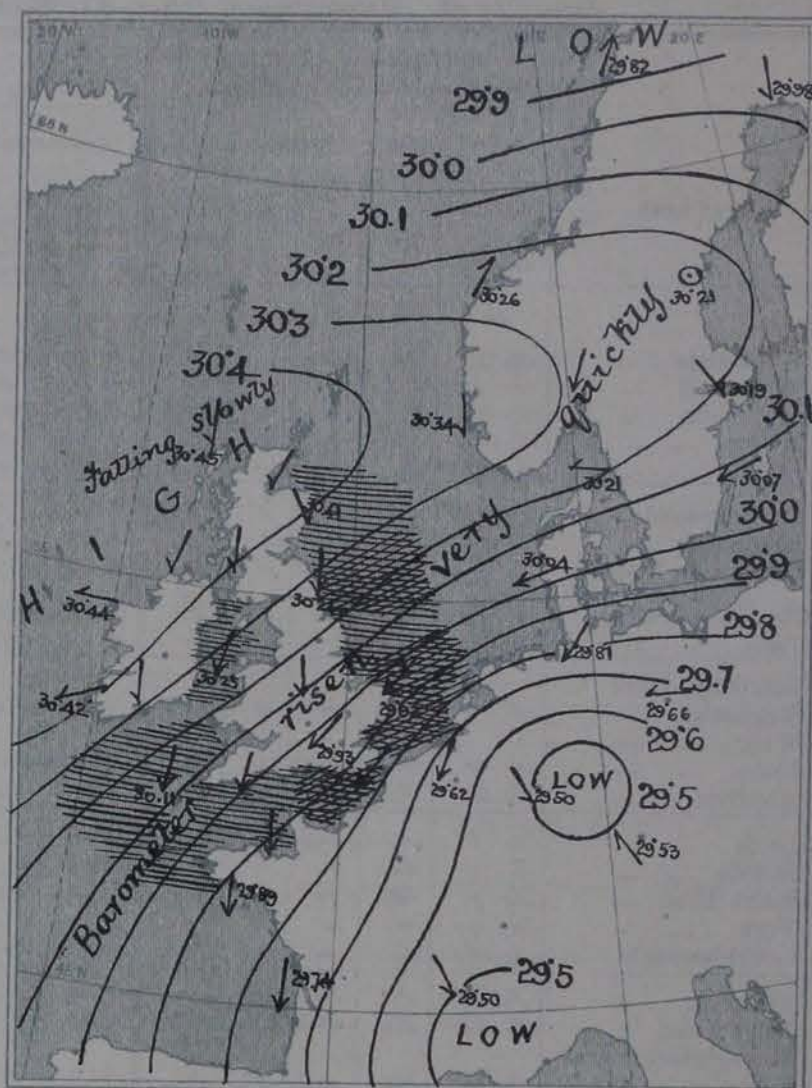
at 8.0 a.m. for the month of November.

During the 20 Years 1871—1890.

#### STATIONS.

#### MEAN READINGS.

Sumburgh Head	29.683
Stornoway	29.699
Wick	29.722
Nairn	29.738
Aberdeen	29.758
Leith	29.780
Shields	29.813
Spurn Head	29.842
York	29.846
Loughborough	29.877
Ardrossan	29.791
Mullaghmore	29.780
Donaghadee	29.810
Holyhead	29.835
Liverpool	29.851
Parsonstown	29.847
Valencia	29.865
Roche's Point	29.865
Pembroke	29.864
Scilly	29.897
Prawle Point	29.914
Jersey	29.928
Hurst Castle	29.902
Dover	29.893
LONDON	29.898
Oxford	29.896
Cambridge	29.887
Yarmouth	29.865



## 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.

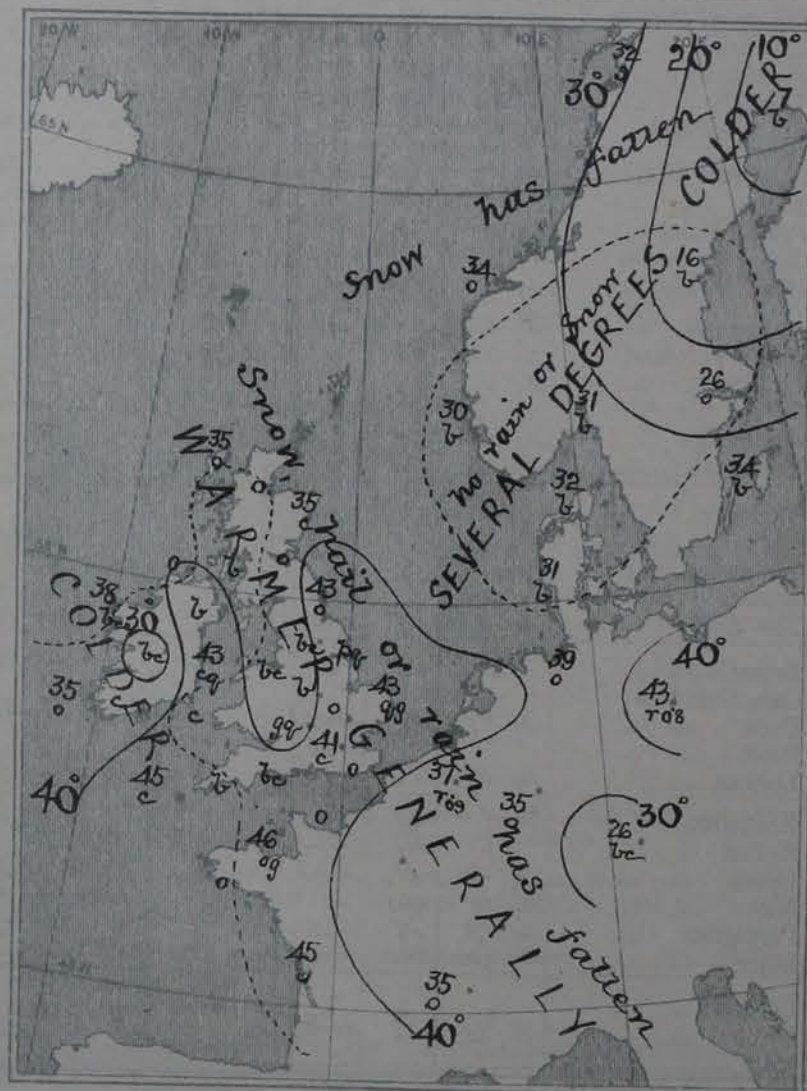
**RAINFALL**—A dotted line separates the districts in which rain has fallen from those where there has been none. Falls of 0.5 in. or more are quoted in figures.

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

(For the month of November.)

STATIONS.	TEMPERATURE.				RAINFALL. (Inches.)
	Daily Max.	Daily Min.	at 8 a.m.		
			Dry.	Wet.	
Sumburgh Head.....	45.6	37.8	42.0	40.3	4.16
Stornoway.....	46.2	37.0	41.7	40.7	4.79
Wick.....	46.1	36.1	41.4	39.8	2.93
Nairn.....	45.3	35.7	39.8	38.2	2.29
Aberdeen.....	46.2	36.5	40.5	38.7	3.14
Leith.....	48.1	37.0	41.7	40.0	2.20
Shields.....	47.3	37.9	42.1	40.5	2.61
Spurn Head.....	46.8	40.2	43.2	41.9	2.40
York.....	47.5	36.4	40.6	39.3	2.19
Loughborough.....	48.0	36.6	40.5	39.3	2.24
Ardrossan.....	47.8	39.1	43.1	41.3	3.88
Mullaghmore.....	49.6	41.2	45.1	43.1	4.48
Donaghadee.....	48.3	39.2	43.2	42.0	3.20
Holyhead.....	49.7	42.9	45.8	44.0	3.88
Liverpool.....	47.8	39.6	42.5	40.7	2.96
Parsonstown.....	49.1	37.1	41.9	40.2	2.83
Valencia.....	52.3	43.0	47.4	45.5	5.42
Roche's Point.....	51.1	42.0	46.1	44.5	4.62
Pembroke.....	50.1	43.8	46.9	45.1	4.04
Scilly.....	52.4	46.7	50.0	48.0	3.72
Prawle Point.....	51.1	41.9	46.2	44.7	3.20
Jersey.....	51.9	44.1	47.7	45.8	4.70
Hurst Castle.....	50.5	49.6	44.0	44.0	3.01
Dover.....	49.3	40.6	44.3	42.8	3.48
LONDON.....	49.3	38.0	42.2	40.8	2.23
Oxford.....	48.2	37.6	41.2	40.0	2.31
Cambridge.....	48.6	35.8	40.7	39.9	2.01
Yarmouth.....	47.5	39.0	43.1	42.0	3.06

NOTE.—The Temperature means are for the 20 years 1871-90, the Rainfall means are mainly those for the 25 years 1866-90.





# GENERAL SITUATION AT 8 A.M.

## PRESSURE

Highest, 30.4 in. and more over Scotland and the northwestern half of Ireland.  
 Lowest, 29.5 in. and less, in depressions over Germany and the south of France.  
 Gradients still rather steep over the North Sea, the Netherlands, and England, but are decreasing quickly.  
 Barometer rising except in the extreme north of Scotland and Norway, where a slight fall has occurred.

## TEMPERATURE

Highest, 50° at Lisbon, 46° at Lorient and Jersey, 45° at Lelly.  
 Lowest, 7° F. at Haparanda, 16° at Helsingfors, 26° at Stockholm, 35° at Tromsø and Aberdeen.  
 The changes have been frequent and irregular during the past day. A minimum of 23° in the shade is reported from Oxford, Cambridge and London. 25° at Lancaster.

## WIND

N or NE in almost all places; moderate to light in the far north of our Islands, strong in the northeast, west, and southwest, and still blowing a hard gale on our southeast coasts. In the northwest of Norway it has backed to SW. and S. and is increasing in force.  
 The N. gale after again blowing severely in the east and south has died down except in the southeast.

## WEATHER

Very squally in the east and southeast of England, dull but improving on the other coasts of Great Britain, fine in Ireland and at some of the northern stations in England.  
 Snow and hail have fallen on our northern coasts, in the east and southeast of England, and some parts of France, rain in Germany and the Netherlands. The fall has been heavy at Brussels and Berlin.

## SEA

Still high on our northeast and southeast coasts, in the Straits of Dover, and on the north coast of France, rough at Lelly, Lorient.

## PROBABLE CHANGES IN SYSTEM NOW PREVALENT

The depression is now apparently falling up, and the gale seems likely to die down before long, even on our southeast coasts.

# FORECASTS

For the 24 hours ending at NOON on 21<sup>st</sup> Nov<sup>r</sup>. 1893.

## DISTRICTS.

## FORECASTS.

- |   |                  |   |
|---|------------------|---|
| 0 | SCOTLAND NORTH   | Wind backing towards W.; milder, fair to showery.   |
| 1 | SCOTLAND EAST    |   |
| 2 | ENGLAND N.E.     | N <sup>th</sup> winds, falling light; fine, very cold tonight.                            |
| 3 | ENGLAND EAST     | Same as No 5  |
| 4 | MIDLAND COUNTIES | Same as No 2  |
| 5 | ENGLAND SOUTH    | NE <sup>th</sup> gales, moderating decidedly; slight showers, fine and very cold tonight. |

## DISTRICTS.

## FORECASTS.

- |          |               |   |
|----------|---------------|---|
| 6        | SCOTLAND WEST | Same as Nos 0 and 1.                          |
| 7        | ENGLAND N.W.  |   |
| 8        | ENGLAND S.W.  | N <sup>th</sup> breezes; moderate; fair, cold |
| 9        | IRELAND NORTH |   |
| 10       | IRELAND SOUTH |   |
| WARNINGS |               | None issued.                                  |

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



# YESTERDAY'S 2 P.M. REPORTS.

	BAR.	THER.		WIND.	F.	WEA.	SEA.		BAR.	THER.		WIND.	F.	WEA.	SEA.
		Dry.	Wet.	Dirac.						Dry.	Wet.	Dirac.			
Skudesnes ...	29.87	57	58	WNW	4	6	2	Valencia ...							
Samburgh Head ...								Soilly ...							
Stornoway ...	30.24	50	58	N	4	0	4	Jersey ...							
Aberdeen ...								Hurst Castle ...							
Shields ...								Dungeness ...	29.44	56	58	N	7	C	6
Androsan ...								North Foreland ...	29.40	48	41	N	6	0	6
Malin Head ...	30.21	40	59	N	6	0	4	London ...							
Mullaghmore ...								Yarmouth ...							
Belmullet ...	30.24	48	42	N	5	0	*	Rochefort ...	29.70	+	+	NNW	6	C	*
Holyhead ...	30.03	59	55	NNE	7	0	7								

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

*Continental information not yet received*

### SUMMARY OF CHANGES IN THE WEATHER OVER THE BRITISH ISLANDS AND THEIR NEIGHBOURHOOD FROM THE 12<sup>TH</sup> TO 18<sup>TH</sup> NOV. 1893.

The weather prevailing over the British Islands at the beginning of this week was very fair, with light N<sup>W</sup> breezes at the Scotch stations and E<sup>W</sup> winds elsewhere, and blowing rather strongly in the south of England. Temperature was low, and the air fairly dry. Monday and Tuesday brought a great deal of damp fog and mist to all parts of Ireland and England, and a shallow depression to our southwestern coasts — the latter moving E<sup>W</sup> up the channel, bringing large quantities of rain to our southern coasts and north of France, and subsequently to the Netherlands and Germany, while the northern parts of our Islands remained dry.

On Thursday morning, however, a serious change was apparent. The barometer was falling rather decidedly, over our southwestern coasts and the wind there increasing from the SE<sup>W</sup> with an overcast sky, but very little rain. Later on a deep depression reached the south of Ireland; SE<sup>W</sup> gales set in on nearly all our coasts, and blew with great force, and rain fell generally. As the centre of the storm moved northwards the gale increased in Scotland, but at our western stations it shifted suddenly to NW, and blew with great force. Temperature fell with this change and snow and hail took the place of the rain. By 6 p.m. on Friday the centre of the storm had reached the Moray Firth, but during the succeeding night it recurved, and moved southeasterly over the North Sea. As this change was accompanied by a rapid increase of pressure in the west, the gale became still more N<sup>W</sup>, blew with tremendous force in the Irish Channel and Scotland, and spread gradually to all parts of England, the North of France; still later on it reached the Netherlands. The squalls were very severe, the falls of snow general and in some parts of England heavy.

At the close of the week the gale was still prevailing with great force on all coasts of Gr. Britain (it did not reach London till Saturday afternoon), but had moderated slightly in the northwest of Ireland, and the barometer was rising.

#### EXPLANATION OF THE 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.

N.B.—The morning observations are made at 3 a.m. in the British Islands, Germany, Sweden, and Norway, 7 a.m. in France, Spain and Portugal, and 9 a.m. in Belgium. The evening observations are made at 6 p.m. in the British Islands (as a rule), and France, 8 p.m. at Oxford, in Sweden, Norway, and Germany, and 9 p.m. in Belgium. The time at each Station is the Standard Time of its Country.

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" Weekly " " " £1 10 0 "



# DAILY WEATHER REPORT

for 8 a.m. on TUESDAY, 21<sup>ST</sup> NOVEMBER. 1893.

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

STATIONS.		YESTERDAY EVENING. (See note at bottom of last page.)					THIS MORNING. (See note at bottom of last page.)										PAST 24 HOURS.				
		Barom.	Temp.	Wind.		Weather.	Barometer.	SHADE TEMP.			Wind.		Sea (0 to 9).	Weather.	SHADE TEMP.		Amount of Rainfall.				
				Force (0 to 12).				Dry Bulb.	Wet Bulb.	Change in dry since Yesterday.	Direc.	Force (0 to 12).			Max.	Min.					
		Reading at 32° F. and Sea Level.	Dry Bulb.	Direc.	Force (0 to 12).		Reading at 32° F. and Sea Level.	Change since Yester- day Morn.	Dry Bulb.	Wet Bulb.	Change in dry since Yesterday.	Direc.	Force (0 to 12).			Max.	Min.				
		Ina.	°				Ina.		°	°						°		ins.			
SCANDINAVIA.	Haparanda ...	29.48	30	SW	4	bc	29.52	-46	25	24	+18	SE	4	c	*	bc	3	7	0.04		
	Hernösand ...	29.83	28	S	4	bc	29.82	-29	37	32	+21	WNW	6	b	*	bc	37	14	—		
	Stockholm ...	30.16	24	SW	2	b	29.91	-28	31	28	+5	W	1	b	*	b	32	23	—		
	Wisby ...	30.13	32	E	2	o	29.94	-13	38	35	+4	N	8	b	*	o	38	30	—		
	Bodö ...	30.54	32	W	8	m	29.85	+23	35	30	+5	WNW	4	c	2	mp	41	28	—		
	Christiansund...	30.12	43	WNW	9	o	30.23	-23	40	36	+6	WNW	4	o	5	o	43	34	0.04		
	Skudesnaes ...	30.43	34	N	2	c	30.32	-22	36	35	+6	N	1	c	2	c	37	30	—		
	Christiania Fjord (Færder)	30.23	33	WNW	4	b	30.14	-14	39	36	+3	2	o	b	1	b	3	31	—		
	Skagen (The Scaw)	30.25	30	2	0	b	30.17	-104	40	39	+1	WNW	1	b	0	b	3	25	—		
	Fanö ...	30.26	28	ESE	4	b	30.24	+20	37	35	+6	WNW	1	o	*	b	37	37	—		
ISLANDS.	Sumburgh Head	30.38	44	WNW	1	o	30.33	-5	43	40	+6	WNW	2	o	4	o	44	35	0.05		
	Stornoway ...	30.30	39	SW	2	c	30.48	+18	40	40	+5	WNW	3	a	3	c	41	31	—		
	Wick ...	30.46	37	N	3	o	30.40	+4	39	38	+2	WNW	2	b	2	o	40	34	—		
	Nairn ...	30.53	36	2	0	o	30.49	+6	37	35	0	WNW	1	b	1	o	39	32	—		
	Aberdeen ...	30.52	35	WNW	2	bc	30.45	+7	35	34	0	WNW	1	b	3	c. bc	38	33	—		
	Leith ...	30.48	36	N	3	bc	30.33	+16	33	31	-6	W	1	bm	*	bc	41	31	—		
	Shields ...	30.40	43	NE	4	c	30.51	+11	40	39	-3	WNW	3	o	5	mpd	44	37	—		
	Spurn Head ...	30.27	43	NE	6	c	30.48	+21	40	41	+1	NNE	3	o	5	cq	43	40	—		
	York ...	30.35	41	NNE	3	o	30.52	+17	39	38	0	NE	1	o	*	o	42	31	—		
	Loughborough	30.29	40	NNE	3	o	30.49	+20	37	36	0	WNW	2	om	*	o	43	35	—		
BRITISH ISLANDS.	Ardrossan ...	30.53	37	N	1	b	30.56	+3	29	29	-5	NE	1	bf	1	b	41	28	—		
	Malin Head ...	30.53	41	NNE	4	o	30.39	+14	42	40	+2	SW	1	o	0	o	42	40	—		
	Mullaghmore ...	30.52	42	NE	3	c	30.63	+11	39	37	+1	E	2	c	*	bc. c	47	35	—		
	Belmullet ...	30.48	43	NE	7	bc	30.58	+10	41	39	-2	NE	6	b	5	bc	44	40	—		
	Liverpool (Bidston)	30.40	37	NNE	3	o	30.35	+5	38	36	+1	N	1	o	2	o	42	33	—		
	Holyhead ...	30.37	43	NE	5	c	30.53	+16	42	40	-1	ENE	1	og	2	og. c	44	40	—		
	Parsonstown ...	30.46	37	2	0	o	30.60	+14	34	33	+1	WNW	1	o	*	o	41	26	—		
	Valencia ...	30.47	40	NE	2	bc	30.60	+13	38	37	+1	ENE	1	c	2	b. bc	41	34	—		
	Roche's Point	30.59	38	NNE	5	b	30.35	+23	39	36	+2	NE	3	bc	3	b	39	37	—		
	Pembroke (St. Ann's Hd.)	30.28	40	NE	4	c	30.30	+2	38	36	-3	NE	3	bc	2	c	44	36	—		
GERMANY & HOLLAND.	Scilly ...	30.20	45	NE	5	c	30.41	+21	44	41	-1	ENE	5	c	4	c	46	39	—		
	Prawle Point ...	30.15	39	NNE	7	b	30.40	+25	40	38	+2	ENE	7	cq	6	b	43	35	—		
	Jersey (St. Aubin's)	30.01	46	NNE	7	og. c	30.32	+31	45	42	-1	NE	5	omg	5	og. sp	47	44	0.10		
	Hurst Castle ...	30.13	41	NE	6	c	30.40	+27	40	38	-1	NNE	4	c	5	c	44	37	—		
	Dungeness ...	30.01	44	ENE	7	og	30.35	+34	44	41	-1	E	5	c	6	spg	45	41	0.12		
	North Foreland	30.07	44	NE	6	og	30.36	+32	44	43	0	NE	5	spg	6	spg	45	40	0.23		
	London ...	30.15	41	NE	5	o	30.41	+26	40	38	-1	NNE	3	og	*	og. c	43	39	—		
	Oxford ...	30.26	39	NNE	4	o	30.46	+20	37	35	-2	NNE	1	og	*	c. og	43	36	—		
	Cambridge ...	30.22	40	WNW	7	o	30.45	+23	38	36	-4	WNW	2	og	*	o	44	36	—		
	Yarmouth ...	30.14	43	NE	7	cq	30.37	+23	43	42	0	NE	5	cq	6	cq	44	40	0.02		
FRANCE AND BELGIUM.	Cuxhaven ...	30.18	39	NE	3	bc	30.26	+8	38	31	-6	N	2	b	*	bc	39	31	—		
	Berlin ...	29.97	38	NE	4	o	30.16	+19	35	33	-2	WNW	4	o	*	o	40	35	0.08		
	Wiesbaden ...	*	*	*	*	*	30.18	+68	37	33	+4	N	3	o	*	*	41	35	0.04		
	Munich ...	29.81	32	N	1	o	30.22	+40	31	31	+5	W	4	o	*	o. T	34	26	—		
	The Helder ...	30.21	41	NE	7	c	30.38	+17	39	37	-2	S	1	c	1	c	43	37	—		
	Brussels (9 a.m.)	*	*	*	*	*	30.32	+70	32	29	-7	NE	2	bc	*	o	39	30	0.08		
	Cape Gris Nez	*	*	*	*	*	30.20	+68	37	36	-3	N	3	o	*	o	42	3	0.12		
	Paris ...	29.92	30	NE	2	o	30.20	+28	45	45	+2	NE	3	o	3	o	45	43	—		
	Brest ...	29.99	46	N	6	o	30.23	+24	45	45	-1	NNE	4	c	2	o	46	43	—		
	Lorient ...	29.99	46	N	6	o	30.23	+24	45	45	-1	NNE	4	c	2	o	46	43	—		
PENINSULA.	Rochefort ...	29.83	43	N	6	T	30.16	+42	41	39	-4	NNE	3	o	*	T	46	32	0.16		
	Belfort ...	29.83	37	E	2	C	30.16	+42	36	35	0	E	3	o	*	C	44	32	—		
	Lyons ...	29.75	36	WNW	1	o	30.06	+56	35	33	0	N	2	o	*	o	42	34	—		
	Nice ...	29.60	41	E	2	C	29.89	+53	39	37	0	E	3	o	2	C	48	37	—		
	Perpignan ...	29.66	42	WNW	3	T	29.97	+53	41	37	+2	WNW	3	b	*	T	46	38	0.04		
	Biarritz ...	29.80	46	WNW	3	T	30.12	+52	38	36	-1	ENE	3	bc	4	T	50	36	0.17		
	Corunna ...	30.15	46	N	4	b	30.13	+22	48	44	-2	N	4	b	*	b	54	45	—		
	Lisbon ...	30.15	46	N	4	b	30.13	+22	48	44	-2	N	4	b	*	b	54	45	—		

For Explanation of Columns, see bottom of last page.

† Received too late for insertion in Charts on next page.



# WEATHER CHARTS

for 8 a.m. on Tuesday, 21<sup>st</sup> Nov. 1893.

## 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:

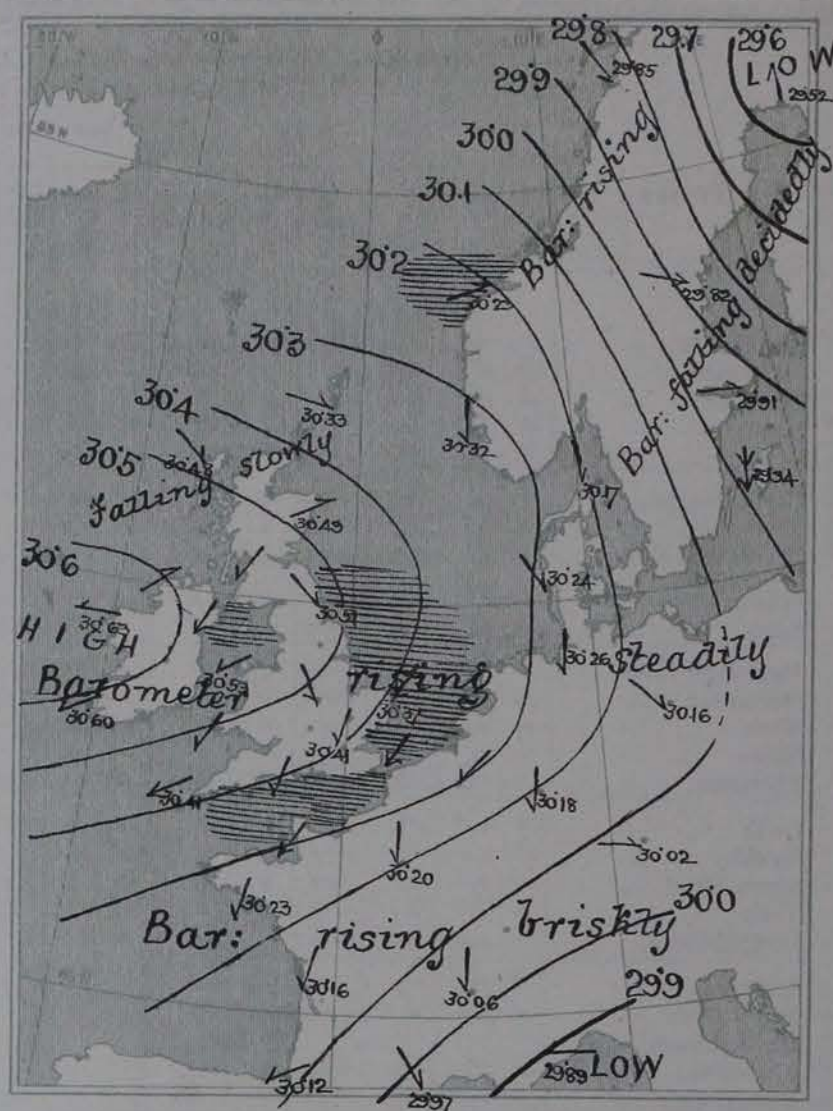
▨ = Rough. ▨ = High.

### MEAN HEIGHT OF THE BAROMETER

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

During the 20 Years 1871-1890.

STATIONS.	MEAN READINGS.
Sumburgh Head	29.683
Stornoway	29.689
Wick	29.722
Nairn	29.738
Aberdeen	29.758
Shields	29.789
Spurn Head	29.813
York	29.842
Loughborough	29.846
Ardrossan	29.877
Mullaghmore	29.701
Donaghadee	29.780
Holyhead	29.810
Liverpool	29.835
Parsonstown	29.851
Valencia	29.847
Roche's Point	29.865
Pembroke	29.865
Seilly	29.864
Prawle Point	29.807
Jersey	29.911
Hurst Castle	29.928
Dover	29.902
LONDON	29.893
Oxford	29.898
Cambridge	29.896
Yarmouth	29.887
	29.865



## 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 November.)

STATIONS.	TEMPERATURE.				RAINFALL. (Inches.)
	Daily Max.	Daily Min.	at 8 a.m.		
			Dry.	Wet.	
Sumburgh Head .....	45.6	37.8	42.0	40.3	4.16
Stornoway .....	46.2	37.0	41.7	40.7	4.79
Wick .....	46.1	36.1	41.4	39.8	2.93
Nairn .....	45.3	35.7	39.8	38.2	2.29
Aberdeen .....	46.2	36.5	40.5	38.7	3.14
Leith .....	48.1	37.0	41.7	40.0	2.20
Shields .....	47.3	37.9	42.1	40.5	2.61
Spurn Head .....	46.8	40.2	43.2	41.9	2.40
York .....	47.5	36.4	40.6	39.3	2.10
Loughborough .....	48.0	36.6	40.5	39.3	2.24
Ardrossan .....	47.8	39.1	43.1	41.3	3.88
Mullaghmore .....	49.6	41.2	45.1	43.1	4.48
Donaghadee .....	48.3	39.2	43.2	42.0	3.20
Holyhead .....	49.7	42.9	45.8	44.0	3.88
Liverpool .....	47.8	39.0	42.5	40.7	2.96
Parsonstown .....	49.1	37.1	41.9	40.2	2.83
Valencia .....	52.3	43.0	47.4	45.5	5.42
Roche's Point .....	51.1	42.0	46.1	44.5	4.62
Pembroke .....	50.1	43.8	46.9	45.1	4.04
Seilly .....	52.4	46.7	50.0	48.0	3.72
Prawle Point .....	51.1	41.9	46.2	44.7	3.20
Jersey .....	51.9	44.1	47.7	45.8	4.30
Hurst Castle .....	50.5	40.6	44.9	44.0	3.01
Dover .....	49.3	40.6	44.3	42.8	3.48
LONDON .....	49.3	38.0	42.2	40.8	2.23
Oxford .....	48.2	37.6	41.2	40.0	2.31
Cambridge .....	48.0	35.8	40.7	39.9	2.01
Yarmouth .....	47.5	39.0	43.1	42.0	3.06

NOTE—The Temperature means are for the 20 years 1871-90, the Rainfall means are mainly those for the 25 years 1866-90.





# GENERAL SITUATION AT 8 A.M.

## PRESSURE

Highest, 30.6 in. and upwards in the west of Ireland, 30.3 in. and upwards, in an anticyclone covering the whole of our Islands, the North Sea and the Netherlands.  
Lowest, 29.6 in. and less, in a depression over the northern parts of the Gulf of Bothnia.

Gradients slight generally, but rather steep over the north of Sweden.

Barometer falling slightly in the north of Scotland, and more decidedly in Sweden, but rising elsewhere.

## TEMPERATURE

Highest (1) 48° at Lisbon; (2) 45° at Jersey, Brest, and Lorient and 44° at Skilly, Dungannon, and the North of Ireland; (3) 43° at Lumburgh Hl.

Lowest, 25° at Haparanda, 23° at Andersson, 30° at Brussels, 31° at Stockholm and Munich, and 33° at Leith and Leshaven.

Frost occurred last night at several of the Scotch stations.

## WIND

NE or N over Ireland, England, France, and the Netherlands; light or moderate in force generally, but fresh or strong on our south and east coasts and also at Donaghadee.

Light from the W or NW in Scotland, as well as at most of the Scandinavian stations, but strong to a gale from the N at Kirkcaldy.

Fair in most parts of Western Europe, but with a good deal of cloud in places. Snow is falling at Munich.

## WEATHER

Showers of hail, snow or cold rain fell yesterday at several of our eastern and southeastern stations, as well as over France, Germany, and the Netherlands, and heavy rain at Biarritz.

## SEA

Rough or rather so on our east and south coasts, as well as at Donaghadee and Christiansund, but slight or smooth elsewhere.

## PROBABLE CHANGES IN SYSTEM NOW PREVALENT

There are some indications of the advance of a depression towards our northern coasts, and showery weather is therefore likely to set in over Scotland. In all the more southern parts of the Kingdom the weather will probably remain fine for the present.

# FORECASTS

For the 24 hours ending at NOON on 22<sup>nd</sup> Nov. 1893.

## DISTRICTS.

## FORECASTS.

## DISTRICTS.

## FORECASTS.

0 SCOTLAND  
NORTH

W<sup>ly</sup> and NW<sup>ly</sup> winds, moderate; fair to showery.

1 SCOTLAND  
EAST

2 ENGLAND  
N.E.

N<sup>ly</sup> and NW<sup>ly</sup> winds, light; fair generally.

3 ENGLAND  
EAST

Same as No 5.

4 MIDLAND  
COUNTIES

Same as No 2.

5 ENGLAND  
SOUTH

NE<sup>ly</sup> and N<sup>ly</sup> winds, light or moderate; fair generally.

6 SCOTLAND  
WEST

NE<sup>ly</sup> and N<sup>ly</sup> winds, light; fair generally.

7 ENGLAND  
N.W.

8 ENGLAND  
S.W.

NE<sup>ly</sup> winds, fresh; fair generally

9 IRELAND  
NORTH

10 IRELAND  
SOUTH

Same as Nos 6 and 7.

## WARNINGS

None issued.

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



# YESTERDAY'S 2 P.M. REPORTS.

	BAR.	THER.		WIND. Direc.	F.	WEA.	SEA.		BAR.	THER.		WIND. Direc.	F.	WEA.	SEA.
		Dry.	Wet.							Dry.	Wet.				
Skudesnaes ...	30.41	37	32	NW	3	c	2	Valencia ...	30.48	41	38	NE	4	b	3
Sumburgh Head ...	30.38	41	40	WNW	2	o	4	Scilly ...	30.16	46	41	NNE	6	c	5
Stornoway ...	30.50	39	38	N	2	c	3	Jersey ...	29.94	46	41	NNW	8	og	6
Aberdeen ...	30.47	38	35	NNW	2	c	4	Hurst Castle ...	30.02	48	39	NE	7	c	6
Shields ...	30.33	43	38	NE	5	c	7	Dungeness ...	29.86	44	43	NE	7	og	6
Ardrossan ...	30.45	41	38	N	1	b	1	North Foreland ...	29.94	44	43	NNE	7	og	7
Malin Head ...	30.47	40	37	NNE	4	o	2	London ...	30.07	48	40	NNE	8	odg	*
Mullaghmore ...	30.48	48	40	NE	4	b	*	Yarmouth ...	30.03	42	40	NE	8	og	7
Belmullet ...	30.30	43	40	NNE	5	og	5	Rochefort ...	29.72	44	43	N	7	+	*
Holyhead ...	30.30	43	40	NNE	5	og	5								

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

*Weather* fair in many parts of our Islands, but squally and showery in the east and southeast of England. Fine and bright over the greater part of Scandinavia, Finland, Denmark and the Baltic; dull in most of the other Continental countries, with rain in many parts of France, Belgium and Germany, and with snow at Lemnos & Munich. Snow or hail showers falling later in the east and south of England, and heavy rain in the south of France.

*Temperature* risen over St. Britain, France and Germany, fallen in most other countries. Morning readings highest, 59° at Nemours, 54° at Gran, and 56° at Algiers (Italian reports wanting); above 45° in the west of France. Lowest (1) 7° at Haparanda, 11° at Archangel, and 14° at Uleaborg; (2) 26° at Munich, and 33° at Lemnos; (3) 27° at Rosinstown, and 34° at Ardrossan. Daily maxima over our Islands below 45° at all but the extreme southern stations; thermometer reaching 50° or more in Spain and the extreme south of France. Frost occurring over Scotland at night.

*Wind* strong to a gale from the NE<sup>W</sup> over England, the Netherlands and the northern parts of Germany and France, and strong from the NW<sup>W</sup> in the south of France, but light from the N<sup>W</sup> over Scotland and the greater part of Ireland. SW<sup>W</sup> in the west of Norway; light from the SE<sup>W</sup> over the central and southern parts of Russia. Variable over Austria & south Germany. Wind moderating later over England, but continuing to blow very strongly on our southeast coasts. SW<sup>W</sup> gale reported at Christiansund in evening. Highest

*Barometer*, 30.4 ins. and upwards in an anticyclone spreading from the Atlantic over Scotland and Ireland. Lowest 29.4 ins. and less in a depression over the Gulf of Genoa; 29.5 ins. and less in another disturbance over western Germany; 29.8 ins. and less in a third system approaching the northwest of Norway. Anticyclone subsequently spreading E<sup>W</sup> and SE<sup>W</sup> and barometer rising in all parts of western Europe.

## General remarks on the Weather for the 24 hours ending 8 a.m. on Nov 20<sup>TH</sup> 1893.

*Weather* squally and showery in nearly all parts of western Europe, with snow or hail in the eastern parts of St. Britain. Dull in nearly all other parts of the Continent, with fog at several of the German stations, rain over Austria, northern Italy and the south of Russia, and snow in Sweden and Finland. Some improvement taking place later in the west and north of our Islands, and also in Scandinavia and Denmark, but weather remaining very unsettled elsewhere, with heavy rain in many parts of the Continent, and with snow at several of the French stations. Thunderstorm occurring at Biarritz.

*Temperature* fallen in all but the eastern countries, - briskly over England and France. Morning readings highest, 65° at Malta, 62° at Lefke, Brindisi and Constantinople, and 59° at Gran; above 50° at several of the Mediterranean stations. Lowest (1) 24° at Archangel, 26° at Haparanda, and 28° at Bodo; (2) 29° at Oxford, and 30° at Longthorpe and Cambridge; (3) 32° at Lemnos, and 33° at Warsaw, Cracow and Munich. Daily maxima below 40° at several of our own northern stations as well as in some parts of central France, but thermometer exceeding 50° in most parts of southern Europe, and reaching 59° at Lisbon.

*Wind* blowing a fresh to strong gale from the NW<sup>W</sup> over our Islands and the north of France; very strong from the same quarter in most other parts of western Europe. Light and variable over Germany and Austria; moderate from the SW<sup>W</sup> in Italy; light from the S<sup>W</sup> and SE<sup>W</sup> over Russia and Poland. Gale moderating somewhat later over our Islands, but increasing again at night on our east and southeast coasts.

*Barometer* highest 30.2 ins. and upwards in a large anticyclone lying to the W<sup>W</sup> of our Islands; 29.9 ins. and upwards over central Russia. Lowest 29.1 ins. to 29.3 ins. in a complex depression lying over the more central parts of Europe; clearly defined minima reported over N. Germany, and the northern part of Italy. Anticyclone spreading E<sup>W</sup> later, depression moving away steadily to the south-eastward.

### EXPLANATION OF THE 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.

N.B.—The morning observations are made at 8 a.m. in the British Islands, Germany, Sweden, and Norway, 7 a.m. in France, Spain and Portugal, and 9 a.m. in Belgium. The evening observations are made at 6 p.m. in the British Islands (as a rule), and France, 8 p.m. at Oxford, in Sweden, Norway, and Germany, and 9 p.m. in Belgium. The time at each Station is the Standard Time of its Country.

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# DAILY WEATHER REPORT

for 8 a.m. on *WEDNESDAY. 22<sup>ND</sup> NOVEMBER. 1893.*

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

STATIONS.		YESTERDAY EVENING. (See note at bottom of last page.)					THIS MORNING. (See note at bottom of last page.)										PAST 24 HOURS.			
		Barom.	Temp.	Wind.		Weather.	Barometer.	Shade Temp.			Wind.		Sea (0 to 9).	Shade Temp.						
				Reading at 32° F. and Sea Level.	Dry Bulb.			Dir.	Force (0 to 12).	Reading at 32° F. and Sea Level.	Change since Yesterday Morn.	Dry Bulb.		Wet Bulb.	Change in dry since Yesterday.	Dir.	Force (0 to 12).	Weather.	Max.	Min.
		Inch.	°				Inch.	°	°	°									Inch.	
SCANDINAVIA.	Haparanda ...	29.74	10	2	0	b	29.77	-15	23	23	-2	S	6	S	#	b	24	10	—	
	Hernösand ...	29.79	23	2	0	o	29.25	-55	31	30	-6	SE	4	S	#	o	37	27	—	
	Stockholm ...	29.93	30	SW	2	bc	29.65	-26	34	33	+3	SW	2	o	#	bc	36	21	—	
	Wisby ...	29.99	37	N	6	b	29.62	-32	37	36	-1	SW	4	o	#	b	39	28	—	
	Bodö ...																			
	Christiansund...	29.58	44	SW	6	m	29.28	-30	38	38	-2	SW	9	T	7	m	45	36	0.24	
	Skudesnaes ...	29.97	46	WNW	6	o	29.58	-74	40	39	+4	WNW	7	o	4	o.T	46	36	—	
	Christiania Fjord (Færder)	29.84	41	SW	4	b	29.48	-71	42	40	+3	SW	6	b	4	b	42	39	—	
	Skagen (The Scaw)	29.95	40	WNW	2	b	29.52	-65	41	39	+1	W	2	c	1	b	41	34	0.04	
	Fanö ...	30.10	42	WNW	4	c	29.76	-48	43	42	+6	W	6	T	#	c	48	37	0.08	
ISLANDS.	Sumburgh Head	29.87	45	W	4	T	29.78	-58	36	35	-7	N	6	c	6	T	47	34	0.22	
	Stornoway ...	30.24	44	WNW	4	o	30.05	-43	37	36	-3	WNW	7	c	6	o	45	35	0.08	
	Wick ...	29.97	39	WNW	5	o	29.87	-53	37	38	-2	N	7	oc	5	o	42	35	0.05	
	Nairn ...	30.21	44	WNW	2	c	29.93	-58	38	38	-1	WNW	4	o	4	c.T	46	34	0.14	
	Aberdeen ...	30.24	40	SW	2	c	29.86	-63	34	33	-1	WNW	6	oc	4	bc.T, bc.p.p.	44	34	0.04	
	Leith ...	30.33	38	W	2	bc	29.95	-60	39	37	+6	WNW	2	bc	#	bc	45	31	0.12	
	Shields ...	30.40	37	WNW	3	c	29.94	-57	41	39	+1	WNW	4	c	3	o.c	43	36	—	
	Spurn Head ...	30.31	42	WNW	2	om	30.00	-48	41	40	-2	WNW	4	c	4	om.f	46	39	—	
	York ...	30.46	42	WNW	1	o	30.00	-52	41	39	+2	WNW	3	b	#	o	43	36	0.12	
	Loughborough	30.30	41	WNW	1	o	30.15	-34	39	37	+2	W	4	c	#	o.g	43	37	—	
BRITISH ISLANDS.	Ardrossan ...	30.42	44	W	2	c	30.03	-53	40	39	+11	WNW	4	bc.p	3	o.c.g	44	39	0.06	
	Malin Head ...	30.48	45	W	3	o	30.12	-47	44	42	+2	WNW	7	oc.p	4	o	47	42	0.05	
	Mullaghmore ...																			
	Belmullet ...	30.60	44	WNW	2	o	30.38	-25	44	43	+5	WNW	5	o	#	o	44	38	0.03	
	Donaghadee ...	30.33	39	W	4	o	30.13	-43	42	40	+1	WNW	6	o	4	o	42	38	0.03	
	Liverpool (Bldston)	30.57	40	WNW	2	o	30.11	-44	43	40	+5	W	6	c	4	o	44	33	0.04	
	Holyhead ...	30.33	43	WNW	1	c	30.18	-35	45	43	+3	WNW	7	cg	6	og.c	46	41	0.01	
	Parsonstown ...	30.61	37	WNW	1	o	30.35	-25	42	40	+8	WNW	3	ot	#	o	44	36	0.07	
	Valencia ...	30.61	37	NE	2	b	30.45	-15	48	47	+10	WNW	4	omg	4	b	48	38	—	
	Roche's Point	30.59	41	NNE	2	c	30.39	-16	45	42	+6	WNW	4	bc	3	c	45	36	—	
GERMANY & HOLLAND.	Pembroke (St. Ann's Hd.)	30.53	41	NE	2	c	30.28	-22	46	45	+8	WNW	5	cu	5	c	46	37	—	
	Scilly ...	30.47	45	ESE	4	c	30.35	-06	47	45	+3	WNW	4	c	4	c	47	41	—	
	Prawle Point ...	30.48	39	ESE	5	c	30.33	-07	40	39	0	W	2	o	1	c.o	43	34	—	
	Jersey (St. Aubin's)	30.59	44	NE	5	bc	30.33	+01	43	41	-3	ESE	1	omg	1	bc, bc, m	46	41	0.01	
	Hurst Castle ...	30.46	42	NE	2	o	30.27	-13	41	40	+1	WNW	2	cm	3	c.o	45	37	—	
	Dungeness ...	30.59	44	ESE	2	T	30.19	-16	37	36	-7	WNW	2	m	2	c.T	45	35	0.03	
	North Foreland	30.41	45	ESE	2	WT	30.19	-17	38	36	-6	W	2	og	2	m.T	45	35	0.16	
	London ...	30.44	44	N	2	o	30.22	-19	38	36	-2	SW	2	o	#	c.o	45	37	—	
	Oxford ...	30.49	40	WNW	1	o	30.21	-25	37	35	0	SW	2	bc	#	o	42	37	—	
	Cambridge ...	30.47	41	WNW	1	c	30.16	-29	38	36	0	SW	3	o	#	c	45	36	—	
FRANCE AND BELGIUM.	Yarmouth ...	30.40	44	N	2	cm	30.07	-30	38	36	-5	WNW	4	cg	4	cg, cm	45	35	0.02	
	Cuxhaven ...	30.21	41	W	2	c	29.86	-40	41	41	+8	WNW	4	o	#	c	43	33	—	
	Berlin ...	30.27	32	WNW	3	b	30.10	-06	33	32	-2	SW	2	o	#	b	37	30	—	
	Wiesbaden ...						30.26	+08	29	28	-8	N	1	o	#	#	37	25	—	
	Munich ...	30.31	26	SE	2	o	30.26	+24	24	24	-7	SW	2	f	#	o	34	19	0.08	
	The Helder ...	30.38	43	WNW	1	bc	30.07	-31	42	40	+3	WNW	7	o	4	bc	45	37	0.04	
	Brussels (9 a.m.)						30.24	-08	31	30	+1	SW	2	o	#	b	37	26	—	
	Cape Gris Nez	30.39	40	ESE	2	o	30.19	-12	42	39	-11	WNW	5	o	5	o	43	34	—	
	Paris ...	30.38	36	NE	2	o	30.32	+12	26	19	-11	SE	1	o	#	b	33	25	—	
	Brest ...		43	ESE	2	bc			45	43	0	2	o	1	bc	36	37	—		
PENIN-SULA.	Lorient ...	30.36	41	E	5	b	30.39	+12	36	33	-3	E	4	c	2	b	46	34	—	
	Rochefort ...	30.24	39	NE	5	o	30.30	+14	35	34	-6	NE	4	c	#	o	45	32	—	
	Belfort ...		36	E	2	c			35	34	-1	E	2	o	#	c	42	32	—	
	Lyons ...	30.21	38	WNW	1	o	30.33	+37	33	30	-2	N	1	o	#	o	39	32	—	
	Nice ...	30.07	45	E	2	bc	30.21	+32	40	38	+1	E	3	b	3	bc	34	29	—	
	Perpignan ...	30.16	41	WNW	2	b	30.26	+29	33	32	-8	WNW	1	bc	#	b	35	32	—	
	Biarritz ...	30.15	44	E	2	o	30.22	+10	41	39	+3	E	2	o	3	o	48	37	—	
	Corunna ..																			
	Lisbon ...	30.18	49	NNE	4	b	30.24	+11	46	41	-2	NNE	4	b	#	b	55	40	—	

For Explanation of Columns, see bottom of last page.

† Received too late for insertion in Charts on next page.



# WEATHER CHARTS

for 8 a.m. on Wednesday, 22<sup>nd</sup> Nov: 1893.

## 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:

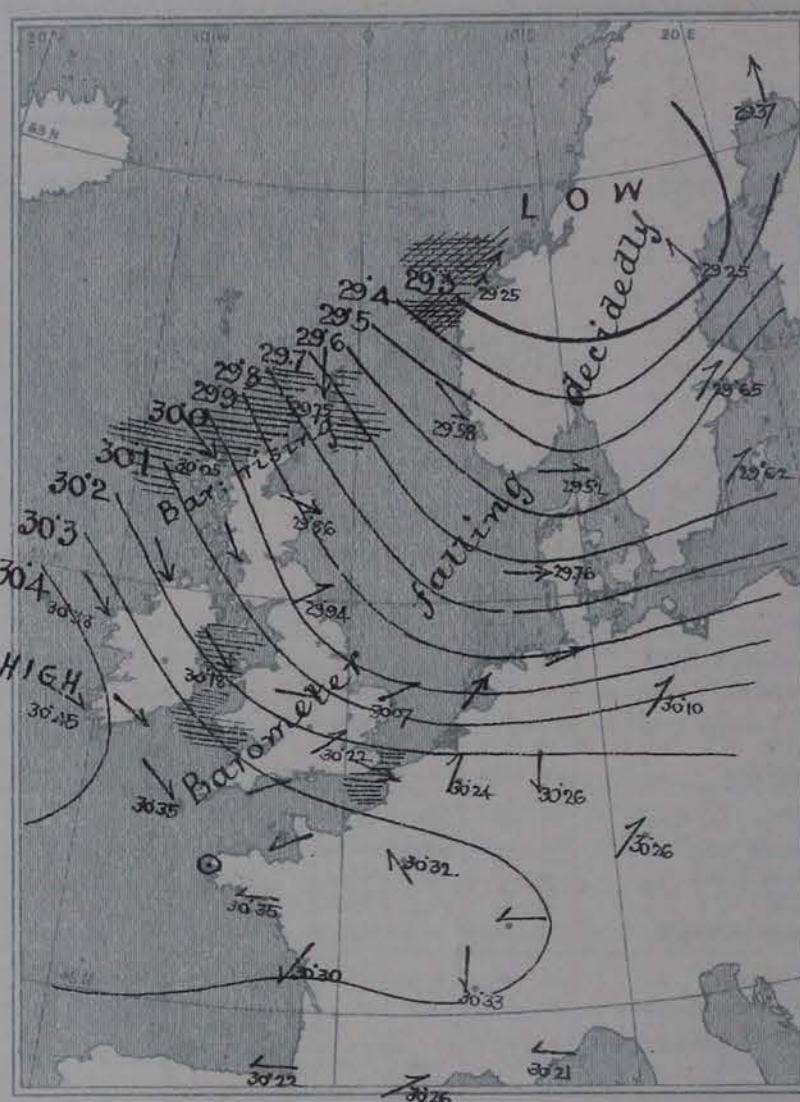
▨ = Rough. ▨ = High.

## MEAN HEIGHT OF THE BAROMETER

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

During the 20 Years 1871—1890.

STATIONS.	MEAN READINGS.
Sumburgh Head	29.683
Stornoway	29.699
Wick	29.722
Nairn	29.738
Aberdeen	29.758
Leith	29.789
Shields	29.813
Spurn Head	29.842
York	29.846
Loughborough	29.877
Ardrossan	29.791
Mullaghmore	29.780
Donaghadee	29.810
Holyhead	29.835
Liverpool	29.851
Parsonstown	29.847
Valencia	29.865
Roche's Point	29.865
Pembroke	29.864
Scilly	29.897
Prawle Point	29.914
Jersey	29.928
Hurst Castle	29.902
Dover	29.893
LONDON	29.898
Oxford	29.896
Cambridge	29.887
Yarmouth	29.865



## 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.

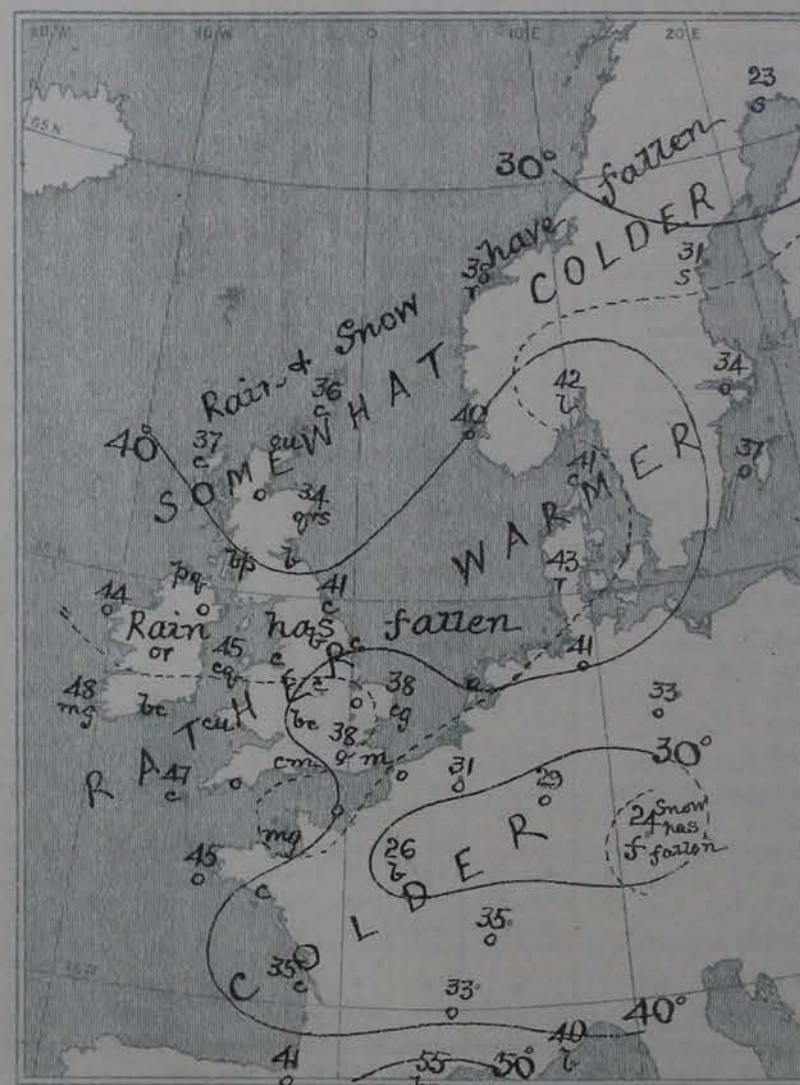
**RAINFALL**—A dotted line separates the districts in which rain has fallen from those where there has been none. Falls of 0.5 in. or more are quoted in figures.

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

(For the month of November.)

STATIONS.	TEMPERATURE.				RAINFALL. (Inches.)
	Daily Max.	Daily Min.	at 8 a.m.		
			Dry.	Wet.	
Sumburgh Head.....	45.6	37.8	42.0	40.3	4.16
Stornoway .....	46.2	37.0	41.7	40.7	4.70
Wick .....	46.1	36.1	41.4	39.9	2.93
Nairn .....	45.3	35.7	39.8	38.2	2.29
Aberdeen.....	46.2	36.5	40.5	38.7	3.14
Leith.....	48.1	37.0	41.7	40.0	2.20
Shields.....	47.3	37.9	42.1	40.5	2.61
Spurn Head.....	46.8	40.2	43.2	41.9	2.40
York.....	47.5	36.4	40.6	39.3	2.19
Loughborough .....	48.0	36.6	40.5	39.3	2.24
Ardrossan.....	47.8	39.1	43.1	41.3	3.88
Mullaghmore.....	49.6	41.2	45.1	43.1	4.48
Donaghadee.....	48.3	39.2	43.2	42.0	3.20
Holyhead .....	49.7	42.9	45.8	44.0	3.88
Liverpool .....	47.8	39.6	42.5	40.7	2.96
Parsonstown.....	49.1	37.1	41.9	40.2	2.83
Valencia.....	52.3	43.0	47.4	45.5	5.42
Roche's Point.....	51.1	42.0	46.1	44.5	4.62
Pembroke.....	50.1	43.8	46.9	45.1	4.04
Scilly.....	52.4	46.7	50.0	48.0	3.72
Prawle Point.....	51.1	41.9	46.2	44.7	3.20
Jersey.....	51.9	44.1	47.7	45.8	4.30
Hurst Castle.....	50.5	40.6	44.9	44.0	3.01
Dover.....	49.3	40.6	44.3	42.8	3.48
LONDON.....	49.3	38.0	42.2	40.8	2.23
Oxford.....	48.2	37.6	41.2	40.0	2.31
Cambridge.....	48.6	35.8	40.7	39.9	2.01
Yarmouth.....	47.5	39.0	43.1	42.0	3.06

**NOTE**—The Temperature means are for the 20 years 1871-90, the Rainfall means are mainly those for the 25 years 1868-90.





# GENERAL SITUATION AT 8 A.M.

## PRESSURE

Highest, 30.4 ins. and upwards, in the southwest of Ireland.  
 Lowest, 29.3 ins. and less, in a large depression lying over the northern parts of Scandinavia.  
 Gradients rather steep over the North Sea, the south of Scandinavia and the northern and eastern parts of our Islands, but slight elsewhere.  
 Barometer falling over the greater part of Western Europe, but rising again in the north of Scotland, rising also in the south of France.

## TEMPERATURE

Highest, 48° at Valencia (Ireland) 47° at Lillie, 46° at Pembroke, and 45° at Holyhead and Rock Point.  
 Lowest, (1) 23° at Haparanda, and 31° at Helsingfors; (2) 24° at Munich, 16° at Paris, and 20° at Brussels.  
 The maxima registered over our Islands yesterday varied in most places between 43° and 48°.

## WIND

Strong from the NW<sup>nd</sup> or N<sup>nd</sup> over the northern parts of our Islands, with a moderate gale in places.  
 Moderate from the W<sup>nd</sup> or SW<sup>nd</sup> on our south and east coasts; strong from the same quarters on the eastern and southern shores of the North Sea.  
 Light to moderate from the E<sup>nd</sup> in the west and south of France.

## WEATHER

Cloudy or overcast in most parts of our area, with passing showers on our northwest coasts, rain at Christiansund and Farsø, sleet at Aberdeen, and snow in the northern parts of Sweden.  
 Fine and bright in the south of France.  
 In the course of the past 24 hours rain has fallen at most of our northwestern, northern, and eastern stations. Lunar halos were seen yesterday at Shields and Andersons.

## SEA

High at Christiansund, rough off the north of Scotland, as well as at Holyhead, and rather rough at Pembroke and Cape Fin Key.

## PROBABLE CHANGES IN SYSTEM NOW PREVALENT

The large depression over Scandinavia is attended by secondary disturbances, which are apparently moving southwards across the North Sea. An increase of wind from the NW<sup>nd</sup> seems probable in most parts of our Islands, with gales on our north and east coasts.

## FORECASTS

For the 24 hours ending at NOON on November 23<sup>rd</sup> 1893.

DISTRICTS.		FORECASTS.		DISTRICTS.		FORECASTS.	
0	SCOTLAND NORTH	{	NW <sup>ly</sup> to N <sup>ly</sup> strong winds and gales; squally with snow or sleet.	6	SCOTLAND WEST	{	Same as N <sup>s</sup> 0 and 1.
1	SCOTLAND EAST			7	ENGLAND N.W.		
2	ENGLAND N.E.	{	W <sup>ly</sup> to NW <sup>ly</sup> winds, increasing in force; fair to squally and showery.	8	ENGLAND S.W.	{	NW <sup>ly</sup> winds, increasing in force; squally, showery.
3	ENGLAND EAST			9	IRELAND NORTH		
4	MIDLAND COUNTIES	{	W <sup>ly</sup> winds, freshening considerably; fair to squally and showery.	10	IRELAND SOUTH	{	Same as N <sup>s</sup> 8
5	ENGLAND SOUTH			WARNINGS			
				At 4:30 pm yesterday to district 0, and at 7:30 pm to districts 1, 2, 3, 6, 7, and 9. Hoist North Cone.			

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.	F.	WEA.	SEA.		BAR.	THER.		WIND.	F.	WEA.	SEA.
		Dry.	Wet.	Dirac.						Dry.	Wet.	Dirac.			
Skudesnaes ...	30.25	39	38	ENE	1	0	2	Valencia ...	30.62	44	41	NE	3	8	3
Sumburgh Head ...	30.09	46	46	WNW	3	7	4	Scilly ...	30.46	46	42	ENE	4	C	4
Stornoway ...	30.37	45	45	NW	3	0	3	Jersey ...	30.39	46	42	ENE	5	bc	5
Aberdeen ...	30.39	42	39	WNW	2	bc	2	Hurst Castle ...	30.44	44	42	NE	5	C	4
Shields ...	30.49	42	40	WNW	3	0	4	Dungeness ...	30.37	45	43	E	4	C	4
Ardrossan ...	30.57	44	42	N	3	0	2	North Foreland ...	30.40	45	44	ENE	2	TM	3
Malin Head ...								London ...	30.44	45	42	NE	4	og	*
Mullaghmore ...								Yarmouth ...	30.40	45	44	N	4	bc	5
Belmullet ...	30.62	43	40	ENE	2	0	*	Rochefort ...	30.21	43	42	NE	5	0	*
Holyhead ...	30.56	43	40	NE	1	og	2								

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

Weather fair in most parts of the United Kingdom but with a good deal of cloud in places. Fine and bright in Sweden and North Germany, as well as in many parts of Southern Europe, but dull in the central and eastern countries, with rain at Moscow, and snow at Caezar and Vienna. Rain falling during day in the extreme south-east of England, and showery weather setting in at night over the northern and northwestern parts of the United Kingdom generally. Lunar halos seen at some of our northern stations.

Temperature risen decidedly over Scandinavia, Finland, and Denmark, fallen in most other countries. Morning readings, <sup>highest</sup> 62° at Constantinople and Malta, 59° at Sofia, 54° at Oren and 52° at Algiers; above 45° in many parts of southern and southeastern Europe. Lowest, 6° at Archangel, 20° at Riga, 21° at Petersburg, and 23° at Skopie; below 35° in many parts of Scotland and central Ireland. Daily maxima over our Islands ranging in most places between 43° and 48°, but thermometer remaining below 40° over Germany and Central France.

Wind light from the W<sup>nd</sup> or NW<sup>nd</sup> in Scotland, and moderate to strong from the same quarters in Scandinavia; N<sup>th</sup> over Denmark, Germany, and the Baltic; NE<sup>th</sup> over England, Ireland, France, Spain, and Northern Italy. Light from the S<sup>th</sup> at most of the Russian stations; variable over the Adriatic, chiefly S<sup>th</sup> in Algeria. Subsequently, backing to the W<sup>nd</sup> or NW<sup>nd</sup> in all the more northern parts of our Islands and increasing to a gale in Scotland.

Barometer highest 30.6 in; and upwards in the west of Ireland; 30.3 in; and upwards, in an anticyclone covering the whole of our Islands, the Netherlands, and the North Sea. Lowest 29.5 in; and less, in a depression over Lapland, 29.6 in; and less in another disturbance over the south of Russia. New and deep depression advancing later towards the west of Norway, and barometer falling quickly on our extreme northern coast.

### EXPLANATION OF THE 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.

N.B.—The morning observations are made at 8 a.m. in the British Islands, Germany, Sweden, and Norway, 7 a.m. in France, Spain and Portugal, and 9 a.m. in Belgium. The evening observations are made at 6 p.m. in the British Islands (as a rule), and France, 8 p.m. at Oxford, in Sweden, Norway, and Germany, and 9 p.m. in Belgium. The time at each Station is the Standard Time of its Country.

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" Weekly " " " £1 10 0 "



# DAILY WEATHER REPORT

for 8 a.m. on THURSDAY, 23<sup>RD</sup> NOVEMBER, 1893.

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

STATIONS.	YESTERDAY EVENING. (See note at bottom of last page.)						THIS MORNING. (See note at bottom of last page.)										PAST 24 HOURS.			
	BAROM.		TEMP.		WIND.		BAROMETER.		SHADE TEMP.			WIND.		Sea (0 to 9).	SHADE TEMP.			Amount of Rainfall.		
	Reading at 82° F. and Sea Level.	Dry Bulb.	Dirc.	Force (0 to 12).	Weather.	Reading at 82° F. and Sea Level.	Change since Yester- day Morn.	Dry Bulb.	Wet Bulb.	Change in dry since Yesterday.	Dirc.	Force (0 to 12).	Weather.		Max.	Min.				
Inch.	°				Inch.	°	°	°						°	Inch.					
SCANDINAVIA.																				
Haparanda ...	29.58	20	SE	4	0	29.54	-0.04	19	19	-4	E	2	0	0	20	9	0.24			
Hernösand ...	29.07	20	SE	0	0	29.01	-0.06	20	20	-2	NNE	4	0	0	20	20	—			
Stockholm ...	29.26	24	SW	4	0	29.24	-0.02	22	20	-2	W	2	0	0	20	20	—			
Wisby ...	29.48	40	W	6	0	29.47	-0.01	20	20	+1	W	4	0	0	20	20	—			
Bodö ...	29.24	38	ENE	2	0	29.20	-0.04	26	24	-11	ENE	4	0	2	20	20	—			
CHRISTIANIA.																				
Christiansund...	29.20	40	NNW	9	7	29.20	+0.00	30	2	-3	NNW	8	0	6	7	41	24	0.40		
Skudesnaes ...	29.54	36	NW	7	0	29.69	+0.15	36	32	-4	NNW	6	0	4	0.0	40	32	—		
Christiania Fjord (Færder)	29.22	29	NNW	4	0	29.49	+0.27	41	35	-1	N	5	0	1	0	40	37	—		
Skagen (The Scaw)	29.38	37	NNW	2	0	29.49	+0.11	39	35	-2	N	1	0	0	0	40	30	—		
Fanø ...	29.30	39	W	2	0	29.35	+0.05	35	33	-2	NW	2	0	0	0	40	34	—		
SCOTLAND.																				
Sumburgh Head	29.86	30	N	7	0	29.94	+0.08	34	32	-2	N	4	0	5	0.0	37	26	0.04		
Stornoway ...	29.24	34	N	7	0	29.29	+0.05	35	35	-2	N	4	0	4	0	37	30	0.04		
Wick ...	29.02	29	N	8	0	29.12	+0.10	35	34	-1	N	6	0	5	0.0	37	27	0.15		
Nairn ...	29.14	29	NNW	4	0	29.24	+0.10	35	34	-1	W	4	0	2	0	37	27	0.04		
Aberdeen ...	29.00	22	NW	7	0	29.15	+0.15	34	32	-2	NW	5	0	5	0.0	37	29	0.00		
ENGLAND.																				
Leith ...	29.07	35	NNW	5	0	29.22	+0.15	35	32	-3	NW	2	0	0	0	41	30	—		
Shields ...	29.99	36	NW	6	0	29.06	+0.07	36	35	-1	NNW	7	0	7	0.0	42	27	0.09		
Spurn Head ...	29.80	38	NNW	6	0	29.97	+0.17	31	30	-1	NW	5	0	5	0.0	44	30	0.20		
York ...	29.99	37	NNW	4	0	29.06	+0.07	30	28	-2	NW	1	0	0	0	44	27	0.02		
Loughborough	29.04	35	NW	2	0	29.09	+0.05	28	26	-2	NW	5	0	0	0	45	28	0.02		
IRISH ISLANDS.																				
Ardrossan ...	29.14	37	NNW	4	0	29.29	+0.15	37	34	-3	NNW	5	0	2	0.0	43	31	0.01		
Malin Head ...	29.26	40	NNW	7	0	29.37	+0.11	41	39	-2	N	6	0	4	0.0	44	37	—		
Mullaghmore ...	29.45	44	NNW	6	0	29.49	+0.04	44	40	-4	NNW	4	0	0	0	47	40	0.04		
Belmullet ...	29.20	41	N	9	0	29.37	+0.17	40	37	-3	NNW	8	0	7	0.0	45	36	0.05		
Donaghadee ...	29.11	38	NNW	4	0	29.20	+0.09	34	32	-2	NNW	5	0	4	0	45	31	0.09		
Holyhead ...	29.15	41	N	7	0	29.24	+0.09	41	38	-3	N	8	0	7	0.0	47	34	0.09		
Parsonstown ...	29.16	40	NNW	3	0	29.21	+0.05	34	32	-2	NW	1	0	0	0	45	29	—		
Valencia ...	29.44	45	N	5	0	29.51	+0.07	45	42	-3	N	5	0	4	0.0	49	41	0.02		
Roche's Point	29.35	43	N	5	0	29.44	+0.09	39	36	-3	N	4	0	3	0.0	47	38	—		
BRITISH ISLANDS.																				
Pembroke (St. Ann's Hd.)	29.18	44	NNW	5	0	29.25	+0.07	37	34	-3	NNW	4	0	3	0.0	47	32	0.10		
Scilly ...	29.20	45	N	6	0	29.20	-0.00	38	35	-3	N	8	0	5	0.0	48	38	0.06		
Prawle Point ...	29.16	40	NNW	3	0	29.16	-0.00	31	30	-1	NE	3	0	2	0.0	46	28	0.02		
Jersey (St. Aubin's)	29.09	46	NNW	3	0	29.23	+0.14	38	34	-4	NNW	5	0	4	0.0	48	38	0.17		
Hurst Castle ...	29.06	37	NW	4	0	29.07	-0.01	31	29	-2	N	5	0	2	0.0	46	29	—		
ENGLAND.																				
Dungeness ...	29.94	40	NNW	4	0	29.96	+0.02	31	30	-1	N	4	0	3	0.0	42	30	—		
North Foreland	29.91	40	N	6	0	29.90	-0.01	34	30	-4	N	6	0	4	0.0	42	31	—		
London ...	29.00	33	NW	3	0	29.01	+0.01	31	28	-3	NNW	3	0	0	0	44	30	—		
Oxford ...	29.05	36	NW	3	0	29.10	+0.05	29	28	-1	NNW	2	0	0	0	46	29	0.07		
Cambridge ...	29.99	36	NNW	6	0	29.02	-0.97	29	28	-1	NNW	6	0	0	0	46	28	—		
Yarmouth ...	29.93	38	NW	3	0	29.89	-0.04	37	35	-2	NNW	6	0	6	0.0	44	33	0.02		
GERMANY & HOLLAND.																				
Cuxhaven ...	29.61	42	NW	4	0	29.61	-0.00	42	42	+1	NW	2	0	0	0	43	37	0.20		
Berlin ...	29.80	34	SW	4	0	29.69	-0.11	34	32	-2	SW	3	0	0	0	37	32	—		
Wiesbaden ...	29.00	29	SW	4	0	29.20	+0.20	35	33	-2	SW	4	0	0	0	35	29	—		
Munich ...	29.70	41	NNW	7	0	29.80	+0.10	41	38	-3	NNW	5	0	3	0	45	37	0.20		
The Helder ...	29.20	38	ENE	2	0	29.20	-0.00	38	38	0	ENE	2	0	0	0	38	38	—		
FRANCE AND BELGIUM.																				
Brussels (9 a.m.)	29.86	32	NNW	1	0	29.86	-0.00	32	32	+1	NNW	1	0	0	0	35	31	0.16		
Cape Gris Nez	29.91	29	NNW	1	0	29.91	-0.00	29	29	+0	NNW	1	0	0	0	38	26	—		
Paris ...	29.06	36	NW	2	0	29.06	-0.00	36	36	0	NW	2	0	0	0	36	36	—		
Brest ...	29.02	39	NW	3	0	29.02	-0.00	39	39	0	NW	3	0	0	0	39	39	—		
Lorient ...	29.17	46	NNW	5	0	29.17	-0.00	46	46	0	NNW	5	0	0	0	46	46	—		
FRANCE AND BELGIUM.																				
Rochefort ...	29.19	37	N	1	0	29.19	-0.00	37	37	0	N	1	0	0	0	37	37	—		
Belfort ...	29.06	35	N	1	0	29.06	-0.00	35	35	0	N	1	0	0	0	35	35	—		
Lyons ...	29.17	32	SE	1	0	29.17	-0.00	32	32	0	SE	1	0	0	0	32	32	—		
Nice ...	29.09	45	E	1	0	29.09	-0.00	45	45	0	E	1	0	0	0	45	45	—		
Perpignan ...	29.12	46	NNW	3	0	29.12	-0.00	46	46	0	NNW	3	0	0	0	46	46	—		
Biarritz ...	29.15	46	NNW	3	0	29.15	-0.00	46	46	0	NNW	3	0	0	0	46	46	—		
PENINSULA.																				
Corunna ...	29.21	49	N	4	0	29.21	-0.00	49	49	0	N	4	0	0	0	49	49	—		
Lisbon ...	29.21	49	N	4	0	29.21	-0.00	49	49	0	N	4	0	0	0	49	49	—		

For Explanation of Columns, see bottom of last page.

† Received too late for insertion in Charts on next page.



# WEATHER CHARTS

for 8 a.m. on Thursday, 23<sup>rd</sup> Nov: 1893.

## 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:

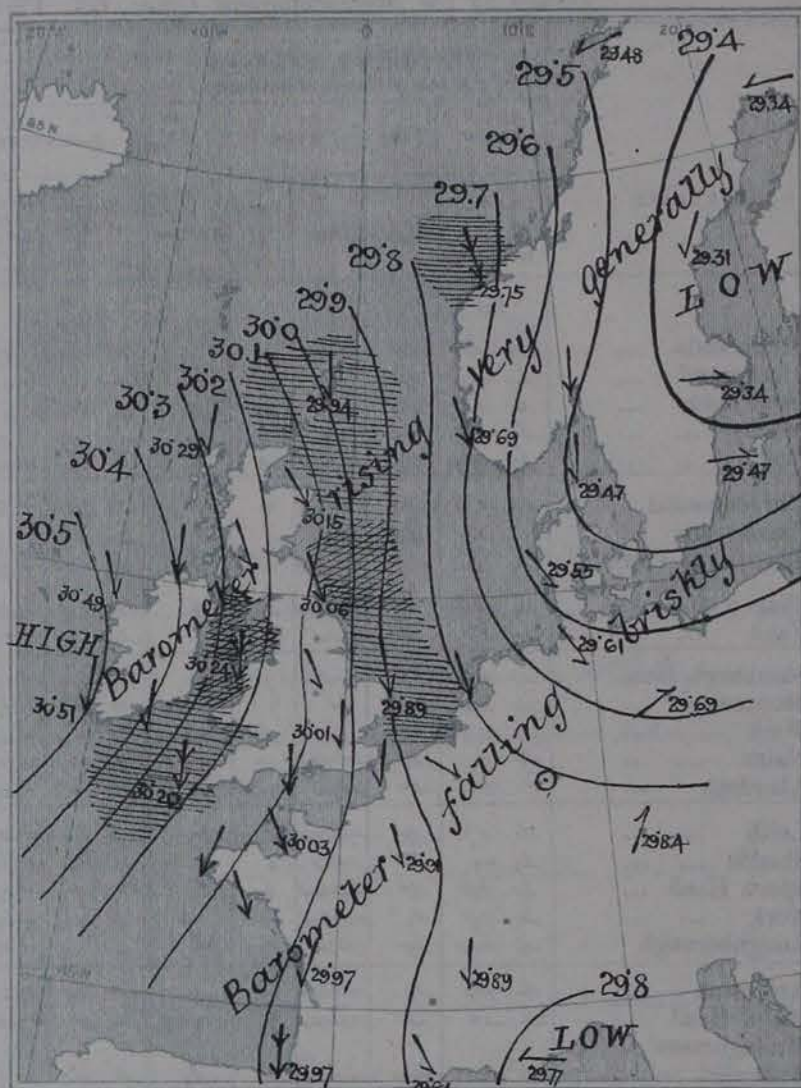
▨ = Rough. ▨ = High.

### MEAN HEIGHT OF THE BAROMETER

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

During the 20 Years 1871—1890.

STATIONS.	MEAN READINGS.
Sumburgh Head	29.683
Stornoway	29.699
Wick	29.722
Nairn	29.738
Aberdeen	29.758
Leith	29.789
Shields	29.813
Spurn Head	29.842
York	29.846
Loughborough	29.877
Ardrossan	29.791
Mullaghmore	29.780
Donaghadee	29.810
Holyhead	29.835
Liverpool	29.851
Parsonstown	29.847
Valencia	29.865
Roche's Point	29.865
Pembroke	29.861
Selly	29.897
Prawle Point	29.914
Jersey	29.928
Hurst Castle	29.902
Dover	29.893
LONDON	29.898
Oxford	29.896
Cambridge	29.887
Yarmouth	29.865



## 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.

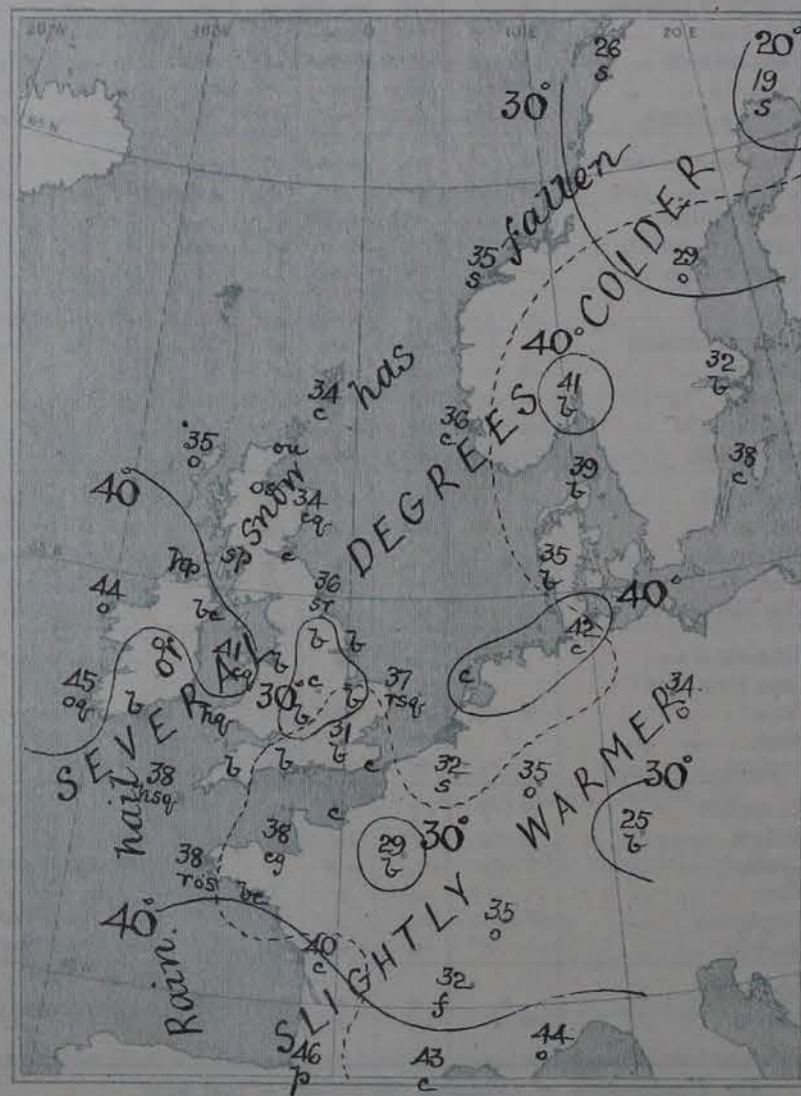
**RAINFALL**—A dotted line separates the districts in which rain has fallen from those where there has been none. Falls of 0.5 in. or more are quoted in figures.

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

(For the month of November.)

STATIONS.	TEMPERATURE.				RAINFALL. (Inches.)
	Daily Max.	Daily Min.	at 8 a.m. Dry.	Wet.	
Sumburgh Head	45.6	37.8	42.0	40.3	4.10
Stornoway	46.2	37.0	41.7	40.7	4.79
Wick	46.1	36.1	41.4	39.8	2.93
Nairn	45.3	35.7	39.8	38.2	2.29
Aberdeen	46.2	36.5	40.5	38.7	3.14
Leith	48.1	37.0	41.7	40.0	2.20
Shields	47.3	37.9	42.1	40.5	2.01
Spurn Head	46.8	40.2	43.2	41.9	2.40
York	47.5	36.4	40.6	39.3	2.19
Loughborough	48.0	36.6	40.5	39.3	2.24
Ardrossan	47.8	39.1	43.1	41.3	3.88
Mullaghmore	49.6	41.2	45.1	43.1	4.48
Donaghadee	48.3	39.2	43.2	42.0	3.20
Holyhead	49.7	42.0	45.8	44.0	3.88
Liverpool	47.8	39.0	42.5	40.7	2.96
Parsonstown	49.1	37.1	41.9	40.2	2.83
Valencia	52.3	43.0	47.4	45.5	5.42
Roche's Point	51.1	42.0	46.1	44.5	4.62
Pembroke	50.1	43.8	46.9	45.1	4.04
Selly	52.4	46.7	50.9	48.0	3.72
Prawle Point	51.1	41.9	46.2	44.7	3.20
Jersey	51.9	44.1	47.7	45.8	4.30
Hurst Castle	50.5	40.6	44.0	44.0	3.01
Dover	49.3	40.6	44.3	42.8	3.48
LONDON	49.3	38.0	42.2	40.6	2.23
Oxford	48.2	37.6	41.2	40.0	2.31
Cambridge	48.6	35.8	40.7	39.9	2.01
Yarmouth	47.5	39.0	43.1	42.0	3.06

NOTE.—The Temperature means are for the 20 years 1871-90, the Rainfall means are mainly those for the 25 years 1866-90.





# GENERAL SITUATION AT 8 A.M.

## PRESSURE

Highest, 30.5 ins: and upwards, in an anticyclone lying off the west of Ireland.  
 Lowest, 29.4 ins: and less, in a depression over Sweden and the Gulf of Bothnia.  
 Gradients rather steep over our Islands, Norway, and the North Sea, but slight elsewhere.  
 Barometer rising at all but the French and German stations.

## TEMPERATURE

Highest (1) 50° at Lisbon, 46° at Biarritz and 44° at Nice; (2) 45° at Valencia (Ireland), 44° at Balmuccia, and 41° at Malin Head and Holyhead.  
 Lowest, (1) 19° at Haparanda and 26° at Åbo; (2) 25° at Munich and 29° at Paris; (3) 28° at York and Loughborough.  
 Frost occurred last night in nearly all parts of the United Kingdom.

## WIND

Strong from the N<sup>th</sup> over the greater part of Western Europe, with a gale over the Irish Sea as well as at the mouth of the Channel.  
 Moderate from the W<sup>th</sup> in the south of Sweden, and from the SW<sup>th</sup> or S<sup>th</sup> in Germany.  
 Fresh to strong gales were experienced yesterday on many parts of our northern coasts.

## WEATHER

Fine in many places, but showers of hail, sleet, or snow reported at several of our western and northern stations.  
 Snow is falling also in the west of Norway and at Haparanda and Brussels, and rain at Biarritz.  
 Showers of hail or snow fell yesterday in many parts of our Islands. Lunar halos were seen at Anderson and the North Foreland.

## SEA

High in the Irish Sea and at Shields, rough or rather so on all but our southern coasts.

## PROBABLE CHANGES IN SYSTEM NOW PREVALENT

The depression noticed over Scandinavia yesterday is passing away to the eastward, and a gradual decrease in the strength of the N<sup>th</sup> wind is probable over our Islands. The weather is, however, likely to remain gusty for a time, with snow showers in many places.

# FORECASTS

For the 24 hours ending at NOON on 24<sup>th</sup> Nov<sup>r</sup>. 1893.

## DISTRICTS.

## FORECASTS.

↑ 0	SCOTLAND NORTH	N <sup>th</sup> winds, fresh or strong; cloudy, some snow showers.
↑ 1	SCOTLAND EAST	
↑ 2	ENGLAND N.E.	Same as N <sup>o</sup> 5
↑ 3	ENGLAND EAST	
↑ 4	MIDLAND COUNTIES	
↑ 5	ENGLAND SOUTH	N <sup>th</sup> winds, fresh or strong; fair generally, but with occasional snow showers.

## DISTRICTS.

## FORECASTS.

↑ 6	SCOTLAND WEST	N <sup>th</sup> winds, moderate or fresh; unsettled, some snow showers.
↑ 7	ENGLAND N.W.	
↑ 8	ENGLAND S.W.	N <sup>th</sup> winds, strong to a gale at first, but moderating later, changeable, some cold showers.
↑ 9	IRELAND NORTH	
↑ 10	IRELAND SOUTH	Same as N <sup>o</sup> 6

## WARNINGS

At 0.40 pm yesterday to districts 5, 8, and 10. Hoist "North Cone". The signals are now flying on all coasts.

*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. Direc.	F.	WEA.	SEA.		BAR.	THER.		WIND. Direc.	F.	WEA.	SEA.
		Dry.	Wet.							Dry.	Wet.				
Skudesnaes ...	29.57	40	36	NW	6	o	4	Valencia ...	30.42	40	46	N	5	cmg	5
Bumburgh Head ...	30.24	32	31	N	6	sp	6	Scilly ...	30.26	46	43	NW	5	o	4
Stornoway ...	30.20	35	35	N	7	sp	6	Jersey ...	30.20	46	43	NW	3	o	4
Aberdeen ...	29.97	36	34	NW	7	cg	5	Hurst Castle ...	30.07	46	44	N	4	bc	4
Shields ...	29.93	40	37	NW	6	bc	5	Dungeness ...	29.97	42	40	NW	5	o	4
Ardrossan ...	30.13	41	38	NW	4	bc	5	North Foreland ...	29.95	42	40	N	4	cmg	4
Malin Head ...	30.26	42	40	NW	7	cg	5	London ...	29.99	46	42	N	2	o	*
Mullaghmore ...								Yarmouth ...	29.85	48	41	NW	5	c	4
Behnullet ...	30.40	45	42	NW	6	o	*	Rochefort ...	30.25	48	41	2	o	bc	*
Holyhead ...	30.13	45	41	N	6	bc	5								

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

Weather cloudy or overcast in most parts of our Islands and the Continent, with passing showers at some of our own northern stations, rain in Denmark, as well as in Tunis, and snow over the northern parts of Sweden and also at Moscow. Showers of hail, sleet or snow falling later in many parts of the United Kingdom, and rain in the west of Norway, as well as at some of the French stations. Lunar halos seen at Ardrossan and the North Foreland.

Temperature risen in most parts of Ireland and England, as well as in Denmark, North Germany, and the south of Scandinavia, but fallen elsewhere. Morning readings highest, 58° at Jfas, 55° at Langensiepe and Alpiers, and 53° at Raina (Italian reports wanting); above 45° on our own southwest coasts. Lowest, 9° at Kuopio, 15° at Archangel and Uleaborg, and 16° at Monow; below the freezing point in many parts of northern, eastern, and central Europe. Daily maxima below 40° in the north of Scotland, but above 45° in the west and south of our Islands. Frost occurring in many parts of the United Kingdom at night.

Wind strong to a gale from the N<sup>or</sup> or NW<sup>or</sup> over the northern parts of our Islands, but moderate from the W<sup>or</sup> on our south and east coasts as well as in Denmark; SW<sup>or</sup> over Germany and the southern parts of Scandinavia, SE<sup>or</sup> in the north of Scandinavia. Light from the NW<sup>or</sup> at most of the Russian stations; E<sup>or</sup> over France and also over the northern parts of the Adriatic; NE<sup>or</sup> or N<sup>or</sup> in Spain. Subsequently veering to the N<sup>or</sup> or NW<sup>or</sup> in all parts of the United Kingdom, and increasing to a strong gale over the Irish Sea.

Barometer highest 30.4 ins. and upwards in the southwest of Ireland, 30.2 ins. and upwards, in an anticyclone covering France and the west and south of our Islands, and extending eastwards and southwards to Germany, Austria, and southeastern Europe. Lowest 29.1 ins. and less, in a depression off the west of Norway, 29.4 ins. and less, in another system over Central Russia. Norwegian depression subsequently moving eastwards, and barometer rising in all the more northern parts of our Islands.

### EXPLANATION OF THE 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.

N.B.—The morning observations are made at 8 a.m. in the British Islands, Germany, Sweden, and Norway, 7 a.m. in France, Spain and Portugal, and 9 a.m. in Belgium. The evening observations are made at 6 p.m. in the British Islands (as a rule), and France, 8 p.m. at Oxford, in Sweden, Norway, and Germany, and 9 p.m. in Belgium. The time at each Station is the Standard Time of its Country.

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TERMS: For Daily Weather Report, forwarded by Book Post, £1 0 0 per annum.

„ Weekly „ „ „ £1 10 0 „



# DAILY WEATHER REPORT

for 8 a.m. on FRIDAY. 24<sup>TH</sup> NOVEMBER. 1893

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

STATIONS.		YESTERDAY EVENING. (See note at bottom of last page.)						THIS MORNING. (See note at bottom of last page.)										PAST 24 HOURS.			
		BAROM.		TEMP.		WIND.		BAROMETER.		SHADE TEMP.			WIND.		Sea (0 to 9).	SHADE TEMP.		Amount of Rainfall.			
		Reading at 32° F. and Sea Level.	Dry Bulb.	Direc.	Force (0 to 12).	Weather.	Reading at 32° F. and Sea Level.	Change since Yester- day Morn.	Dry Bulb.	Wet Bulb.	Change in dry since Yesterday.	Direc.	Force (0 to 12).	Weather.		Weather.	Max.		Min.		
		Inch.	°				Inch.	°	°	°							°	Inch.			
SCANDINAVIA.	Haparanda ...	29.32	19	NE	2	0	29.27	-0.05	17	17	-2	2	0	0	0	0	27	16	0.04		
	Hernösand ...	29.30	18	2	0	0	29.25	+0.05	17	17	0	2	0	0	0	0	27	16	—		
	Stockholm ...	29.54	26	W	2	0	29.58	+0.04	23	23	-9	WNW	2	0	0	0	26	23	—		
	Wisby ...	29.52	37	WNW	4	0	29.66	+0.14	32	29	-6	WNW	4	0	0	0	32	22	—		
	Bodö ...	29.41	24	NNE	2	0	29.39	-0.02	19	17	-7	WNW	2	0	0	0	27	16	—		
	Christiansund...	29.65	33	WNW	4	0	29.41	-0.24	34	33	-1	2	0	0	0	0	35	30	0.12		
	Skudesnaes ...	29.80	34	WNW	2	0	29.60	-0.20	42	39	+6	WNW	5	0	0	0	42	34	—		
	Christiania Fjord (Færdier)	29.71	35	WNW	2	0	29.51	+0.20	36	35	-5	WNW	6	0	0	0	41	32	—		
	Skagen (The Scaw)	29.71	37	NNE	2	0	29.62	+0.09	35	35	-4	WNW	2	0	0	0	41	30	0.04		
	Fanö ...	29.78	33	2	1	0	29.82	+0.04	37	35	+2	W	4	0	0	0	41	33	—		
BRITISH ISLANDS.	Sumburgh Head	29.84	41	WNW	2	0	29.61	-0.23	45	44	+11	WNW	4	0	0	0	45	34	0.07		
	Stornoway ...	29.84	44	WNW	4	0	29.88	+0.04	45	45	+10	W	4	0	0	0	48	35	—		
	Wick ...	29.87	44	N	4	0	29.75	-0.12	44	43	+9	N	6	0	0	0	44	34	0.10		
	Nairn ...	29.88	41	W	1	0	29.88	-0.02	45	43	+10	W	3	0	0	0	47	34	0.05		
	Aberdeen ...	29.88	35	SW	2	0	29.89	-0.01	42	40	+2	WNW	3	0	0	0	43	33	0.05		
	Leith ...	29.88	37	W	2	0	29.88	-0.02	45	41	+10	WNW	3	0	0	0	45	34	—		
	Shields ...	29.11	34	2	3	0	29.00	-0.11	42	41	+6	WNW	3	0	0	0	42	32	0.07		
	Spurn Head ...	29.06	34	WNW	4	0	29.01	+0.05	41	39	+10	W	4	0	0	0	41	30	0.23		
	York ...	29.15	32	WNW	1	0	29.05	-0.10	41	40	+10	W	1	0	0	0	41	27	0.09		
	Loughborough	29.20	31	WNW	2	0	29.11	+0.09	40	39	+12	WNW	2	0	0	0	40	34	0.01		
GERMANY & HOLLAND.	Ardrossan ...	29.13	46	W	2	0	29.06	-0.07	47	46	+10	W	4	0	0	0	47	36	0.04		
	Malin Head ...	29.23	47	WNW	6	0	29.12	-0.11	46	46	+5	WNW	6	0	0	0	48	41	0.08		
	Mullaghmore ...	29.42	47	WNW	4	0	29.29	-0.13	47	45	+2	WNW	5	0	0	0	47	40	0.02		
	Belmullet ...	29.28	42	WNW	4	0	29.15	-0.13	46	45	+6	WNW	6	0	0	0	48	40	0.02		
	Donaghadee ...	29.28	42	WNW	4	0	29.15	-0.13	46	45	+6	WNW	6	0	0	0	48	40	0.02		
	Liverpool (Bldston)	29.22	38	WNW	2	0	29.14	-0.08	45	44	+11	WNW	4	0	0	0	46	34	0.03		
	Holyhead ...	29.26	44	NNE	5	0	29.18	-0.08	48	46	+2	WNW	6	0	0	0	49	40	0.02		
	Parsonstown ...	29.42	41	SW	1	0	29.33	-0.09	42	41	+1	WNW	1	0	0	0	45	31	—		
	Valencia ...	29.51	46	N	0	0	29.42	-0.09	47	45	+2	WNW	3	0	0	0	48	43	0.02		
	Roche's Point	29.44	42	N	4	0	29.37	-0.07	46	43	+3	WNW	3	0	0	0	46	37	—		
FRANCE AND BELGIUM.	Pembroke (St. Ann's Hd.)	29.29	40	NNE	4	0	29.25	-0.04	47	46	+10	WNW	5	0	0	0	48	36	—		
	Scilly ...	29.31	44	N	7	0	29.30	+0.01	50	48	+12	N	6	0	0	0	50	35	0.10		
	Prawle Point ...	29.26	37	N	2	0	29.22	+0.04	45	44	+14	WNW	2	0	0	0	45	24	0.01		
	Jersey (St. Aubin's)	29.18	40	N	5	0	29.20	+0.02	43	41	+2	WNW	2	0	0	0	43	35	0.13		
	Hurst Castle ...	29.21	34	NNE	4	0	29.16	+0.05	35	35	+4	WNW	3	0	0	0	37	31	—		
	Dungeness ...	29.04	35	N	5	0	29.10	+0.06	34	32	+2	WNW	2	0	0	0	37	28	—		
	North Foreland	29.06	38	N	4	0	29.10	+0.04	34	33	0	W	2	0	0	0	38	32	—		
	London ...	29.14	35	N	2	0	29.12	+0.02	34	33	+1	WNW	1	0	0	0	37	28	—		
	Oxford ...	29.21	32	WNW	2	0	29.15	+0.06	37	37	+4	WNW	1	0	0	0	37	28	—		
	Cambridge ...	29.15	31	WNW	5	0	29.10	+0.05	36	33	+3	WNW	1	0	0	0	40	27	—		
PENINSULA.	Yarmouth ...	29.01	38	WNW	5	0	29.03	+0.02	34	33	-1	WNW	4	0	0	0	41	28	0.14		
	Cuxhaven ...	29.70	38	WNW	1	0	29.91	+0.21	34	33	-1	W	2	0	0	0	37	33	0.04		
	Berlin ...	29.79	35	SW	2	0	29.91	+0.12	34	33	0	W	3	0	0	0	37	34	—		
	Wiesbaden ...	29.86	35	2	0	0	29.04	+0.18	36	34	+2	2	0	0	0	0	37	34	—		
	Munich ...	29.86	35	2	0	0	29.99	+0.13	38	38	+3	WNW	2	0	0	0	34	25	0.04		
	The Helder ...	29.93	40	N	5	0	29.84	+0.09	41	39	0	WNW	1	0	0	0	43	37	0.08		
	Brussels (9 a.m.)	29.11	31	N	6	0	29.11	+0.00	31	31	-1	SW	1	0	0	0	40	29	0.04		
	Cape Gris Nez	29.00	31	N	6	0	29.06	+0.06	30	30	+1	WNW	2	0	0	0	33	30	—		
	Paris ...	29.02	37	N	2	0	29.15	+0.13	30	30	+1	2	0	0	0	0	33	29	—		
	Brest ...	29.19	38	NNE	4	0	29.24	+0.05	45	43	+2	NNE	4	0	0	0	43	34	—		
FRANCE AND BELGIUM.	Lorient ...	29.19	38	NNE	5	0	29.24	+0.05	41	37	+4	WNW	3	0	0	0	43	32	—		
	Rochefort ...	29.06	37	NNE	6	0	29.20	+0.14	36	34	-4	NNE	5	0	0	0	43	32	—		
	Belfort ...	29.04	34	N	2	0	29.01	+0.03	32	30	-2	W	2	0	0	0	36	32	—		
	Lyons ...	29.06	33	N	2	0	29.01	+0.05	33	30	+3	N	4	0	0	0	37	28	0.04		
	Nice ...	29.06	33	N	1	0	29.03	+0.03	33	30	+3	N	2	0	0	0	37	28	—		
	Perpignan ...	29.06	33	N	1	0	29.03	+0.03	33	30	+3	N	2	0	0	0	37	28	—		
	Biarritz ...	29.06	33	N	1	0	29.03	+0.03	33	30	+3	N	2	0	0	0	37	28	—		
	Corunna ...	29.16	33	N	4	0	29.27	+0.11	42	37	-5	N	4	0	0	0	35	29	—		
	Lisbon ...	29.16	33	N	4	0	29.27	+0.11	42	37	-5	N	4	0	0	0	35	29	—		

For Explanation of Columns, see bottom of last page.

† Received too late for insertion in Charts on next page.



# WEATHER CHARTS

for 8 a.m. on Friday, 24<sup>th</sup> Nov<sup>r</sup> 1893.

## 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:

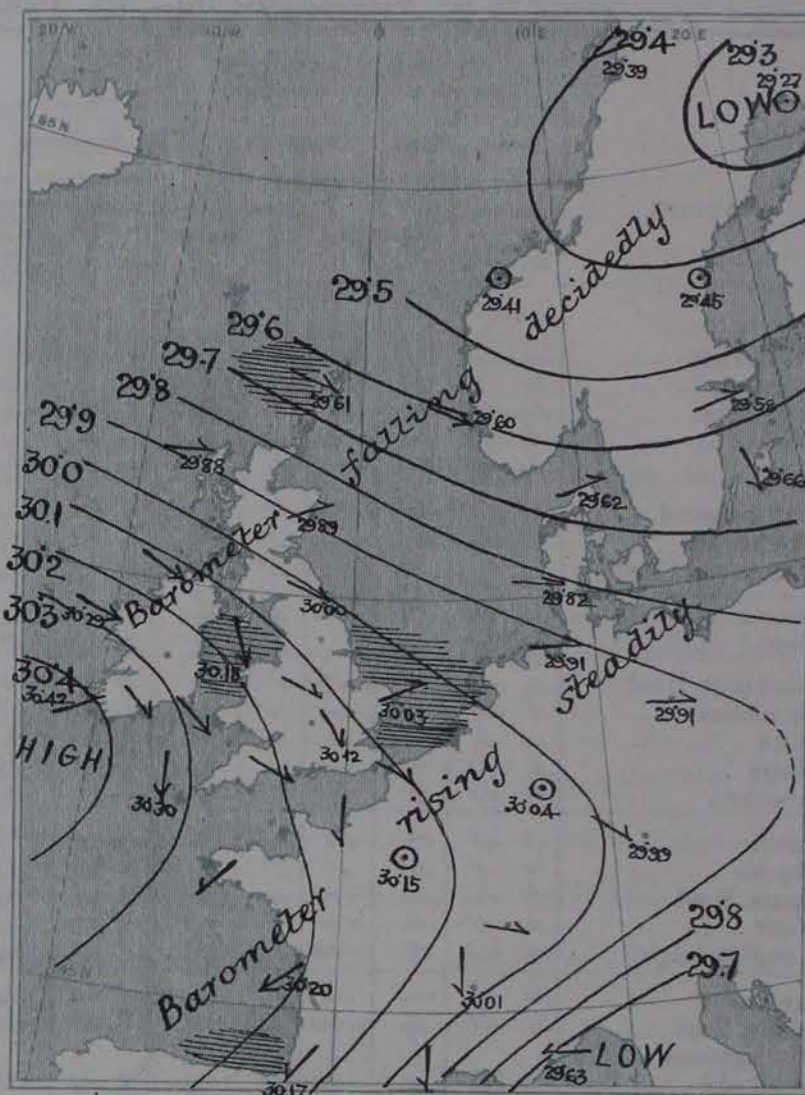
— = Rough. — = High.

## MEAN HEIGHT OF THE BAROMETER

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

During the 20 Years 1871–1890.

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

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

**WEATHER**—Is shown by letters of the Beaufort Scale.

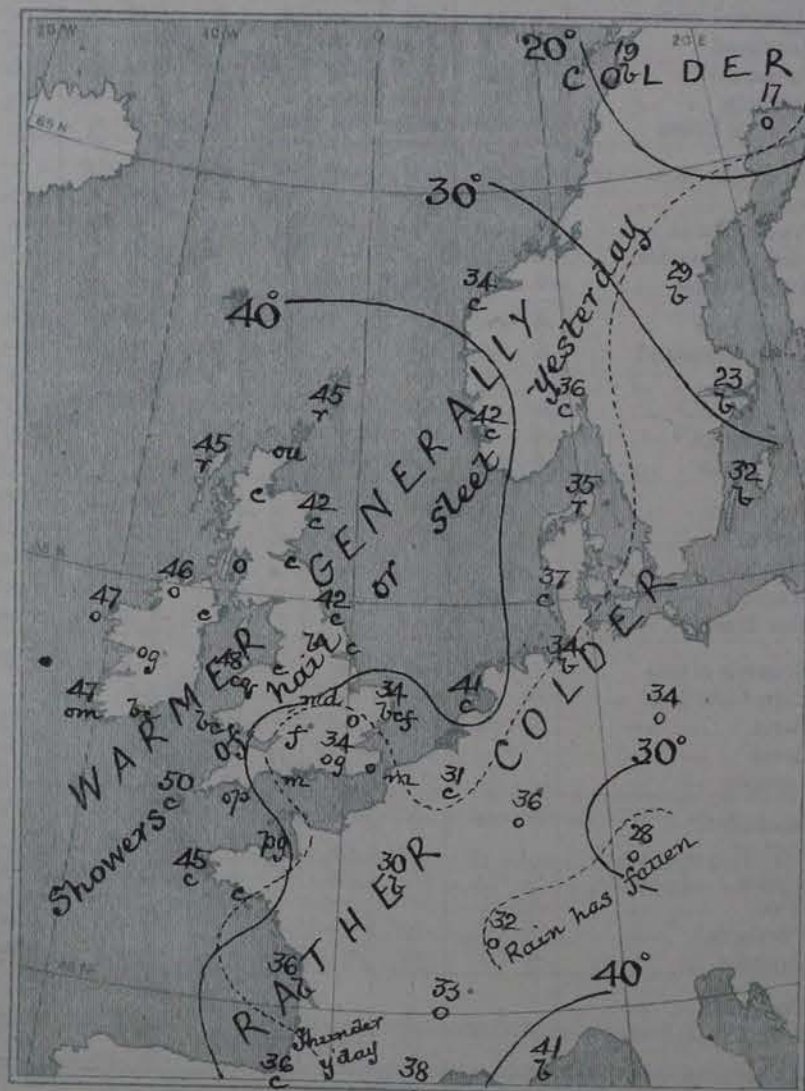
**RAINFALL**—A dotted line separates the districts in which rain has fallen from those where there has been none. Falls of 0.5 in. or more are quoted in figures.

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

(For the month of November.)

STATIONS.	TEMPERATURE				RAINFALL. (Inches.)
	Daily Max.	Daily Min.	Dry. at 8 a.m.	Wet.	
Sumburgh Head	45.6	37.8	42.0	40.3	4.10
Stornoway	46.2	37.0	41.7	40.7	4.79
Wick	46.4	36.1	41.4	39.8	2.93
Nairn	45.3	35.7	39.8	38.2	2.29
Aberdeen	46.2	36.5	40.5	38.7	3.14
Leith	48.1	37.0	41.7	40.0	2.20
Shields	47.3	37.9	42.1	40.5	2.61
Spurn Head	46.8	40.2	43.2	41.9	2.40
York	47.5	36.4	40.6	39.3	2.19
Loughborough	48.0	36.0	40.5	39.3	2.24
Ardrrossan	47.8	39.1	43.1	41.3	3.88
Mullaghmore	49.6	41.2	45.1	43.1	4.48
Donaghadee	48.3	39.2	43.2	42.0	3.20
Holyhead	49.7	42.9	45.8	44.0	3.88
Liverpool	47.8	39.6	42.5	40.7	2.96
Parsonstown	49.1	37.1	41.9	40.2	2.83
Valencia	52.3	43.0	47.4	45.5	5.42
Roche's Point	51.1	42.0	46.1	44.5	4.02
Pembroke	50.1	43.8	46.9	45.1	4.04
Silly	52.4	46.7	50.0	48.0	3.72
Prawle Point	51.1	41.9	46.2	44.7	3.20
Jersey	51.9	44.1	47.7	45.8	4.30
Hurst Castle	50.5	40.6	44.9	44.0	3.01
Dover	49.3	40.6	44.3	42.8	3.48
LONDON	49.3	38.0	42.2	40.8	2.23
Oxford	48.2	37.6	41.2	40.0	2.31
Cambridge	48.6	35.8	40.7	39.9	2.01
Yarmouth	47.5	39.0	43.1	42.0	3.06

**NOTE**—The Temperature means are for the 20 years 1871–90, the Rainfall means are mainly those for the 25 years 1866–90.





# GENERAL SITUATION AT 8 A.M.

## PRESSURE

Highest, 30.4 ins. and upwards in an anticyclone lying off the southwest of Ireland

Lowest, 29.3 ins. and less, in a depression over the north of Sweden.

Gradients rather steep over the northwestern parts of our Islands, but moderate or slight elsewhere.

Barometer falling in all the more western and northern parts of the United Kingdom, as well as in Scandinavia, rising in the south of our Islands and also in France and Germany.

## TEMPERATURE

Highest, 50° at Skilly, 48° at Holyhead, and 47° at Andersons, Belmullet, Kesh, (Ireland) and Pembroke.

Lowest, 17° at Hafnarfjörður, 19° at Reas, 23° at Stockholm, 28° at Munich, 29° at Helsingfors, and 30° at Paris.

Frost occurred last night in many parts of England; in London the thermometer on the grass fell to 21°.

## WIND

Moderate from the W<sup>nd</sup> at most of our northern and eastern stations, as well as in Denmark, north Germany, and the south of Scandinavia.

Weak or strong from the NW<sup>nd</sup> on our western coasts, and light from the same quarter in the south of England.

N<sup>th</sup> in France; calm over the northern part of Scandinavia.

## WEATHER

Dull in the extreme west and north of our Islands and also in Germany, with rain in the Shetlands and Hebrides and with passing showers at Malin Head, as well as at some of the Channel stations.

Fair or fine in most other parts of Western Europe.

Showers of hail or sleet were experienced yesterday in many parts of the United Kingdom. Thunder was heard at Birmm.

## SEA

Rough at Holyhead and rather rough off the east of England, as well as at Lumbagh Head and Birmm.

## PROBABLE CHANGES IN SYSTEM NOW PREVALENT

Another depression is apparently advancing towards the Scotch coasts, and seems likely to occasion increasing winds over the northern parts of our Islands generally. A temporary increase of temperature is probable over England.

# FORECASTS

For the 24 hours ending at NOON on 25<sup>th</sup> NOVEMBER 1893.

DISTRICTS.	FORECASTS.	DISTRICTS.	FORECASTS.
0 SCOTLAND NORTH	W <sup>th</sup> to NW <sup>th</sup> or N <sup>th</sup> winds, increasing to a gale; squally, some rain or sleet.	6 SCOTLAND WEST	Same as N <sup>o</sup> 0 and 1.
1 SCOTLAND EAST		7 ENGLAND N.W.	NW <sup>th</sup> winds, increasing to a gale; squally, some rain.
2 ENGLAND N.E.	W <sup>th</sup> and NW <sup>th</sup> winds, increasing in force; fair to squally and showery.	8 ENGLAND S.W.	NW <sup>th</sup> to N <sup>th</sup> winds, strong; fair to squally and showery.
3 ENGLAND EAST		9 IRELAND NORTH	Same as N <sup>o</sup> 7.
4 MIDLAND COUNTIES	W <sup>th</sup> winds, freshening; fair to unsettled and showery.	10 IRELAND SOUTH	Same as N <sup>o</sup> 8.
5 ENGLAND SOUTH		WARNINGS	At 7.10 pm yesterday to districts 0 to 3 6. 7. and 9. Keep up North Cone.

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.



# YESTERDAYS 2 P.M. REPORTS.

	BAR.	THER.		WIND. Direc.	F.	WEA.	SEA.		BAR.	THER.		WIND. Direc.	F.	WEA.	SEA.
		Dry.	Wet.							Dry.	Wet.				
Skudesnaes ...	29.79	36	32	NNW	5	0	3	Valencia ...	30.50	44	44	NNW	4	cg	4
Stumburgh Head ...	29.84	36	35	NNW	3	0	5	Scilly ...	30.26	44	42	N	7	chg	5
Stornoway ...	30.14	44	44	N	5	0	3	Jersey ...	30.18	39	38	N	5	chg	4
Aberdeen ...	30.11	35	33	NNW	5	0	5	Hurst Castle ...	30.14	37	36	N	2	b	2
Shields ...	30.14	37	34	NNW	5	0	6	Dungeness ...	30.08	37	34	N	5	b	4
Ardrossan ...	30.21	40	39	NNW	3	c	2	North Foreland ...	30.08	37	36	N	6	bc	4
Malin Head ...	30.29	45	43	NW	5	0	3	London ...	30.09	37	35	N	5	cg	*
Mullaghmore ...								Yarmouth ...	29.96	40	37	NNW	6	cg	6
Belmullet ...	30.46	47	44	NW	4	0	*	Rochefort ...	29.96	42	39	NNE	5	bc	*
Holyhead ...	30.27	41	38	NNE	5	c	5								

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

Weather fine in many parts of Western Europe, but showers of hail, sleet or snow reported locally. Dull in most of the eastern, central, and southern countries, with rain over Northern Italy and the extreme south of France, as well as at Nemours and Sfor.

Cold showers falling later in most parts of the United Kingdom; thunder heard at Piacenza.

Temperatures risen slightly in France, and quickly over Finland, but fallen in most other countries. Morning readings highest 70° at Malta, 62° at Sfor, 59° at Pindicia, and 56° at Lania and Palermo; above 50° at the Mediterranean stations generally. Lowest 0° (zero) at Archangel, 16° at Casow, 18° at Moscow, and 19° at Haparanda; below the freezing point in many parts of northern, central, and eastern Europe, as well as over the greater part of England. Daily maxima below 40° at many of our southern and southeastern stations; brisk rise taking place at night in the west and north of our Islands, but sharp frost occurring over England.

Wind strong from the N<sup>W</sup> over Western Europe generally, with gales in the Irish Sea and at the mouth of the English Channel. Moderate to strong from the SW<sup>W</sup> or S<sup>W</sup> over Germany, Russia, and the Baltic; light and variable in Austria. Light or moderate from the E<sup>W</sup> in Italy, but varying between W. and S. in Algeria. Gale in Irish Sea subsiding later, and wind backing to the W<sup>W</sup> over the northern parts of our Islands generally.

Barometer 30.5 ins. and upwards, in an anticyclone lying to the westward of Ireland; 30.2 ins. and upwards, in another high pressure system over the Black Sea. Lowest 29.3 ins. and less, in a depression over Finland; 29.7 ins. and less, in another disturbance to the westward of Italy. Northern depression subsequently moving eastwards, but new disturbance beginning to approach our Islands from the NW<sup>W</sup> in evening.

### EXPLANATION OF THE 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 retained.

N.B.—The morning observations are made at 8 a.m. in the British Islands, Germany, Sweden, and Norway, 7 a.m. in France, Spain and Portugal, and 9 a.m. in Belgium. The evening observations are made at 6 p.m. in the British Islands (as a rule), and France, 8 p.m. at Oxford, in Sweden, Norway, and Germany, and 9 p.m. in Belgium. The time at each Station is the Standard Time of its Country.

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" Weekly " " " £1 10 0 "



# DAILY WEATHER REPORT

for 8 a.m. on SATURDAY . 25<sup>TH</sup> NOVEMBER. 1893.

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

STATIONS.		YESTERDAY EVENING. (See note at bottom of last page.)					THIS MORNING. (See note at bottom of last page.)										PAST 24 HOURS.			
		Barom.	Temp.	Wind.		Force (0 to 12).	Weather.	Barometer.	Shade Temp.			Wind.		Force (0 to 12).	Weather.	Sea (6 to 9).	Weather.	Shade Temp.		Amount of Rainfall.
				Reading at 5 P.M. and Sea Level.	Dry Bulb.				Dir.	Change since Yester- day Morn.	Dry Bulb.	Wet Bulb.	Change in dry since Yesterday.					Dir.	Max.	
		Inch.	°				Inch.		°	°	°							°	Inch.	
SCANDINAVIA.	Haparanda ...	29.23	11	NE	2	C	29.22	-0.05	12	11	-5	NE	2	0	*	C	27	13	—	
	Hernösand ...	29.36	16	NW	2	C	29.24	-2.1	22	21	-7	N	4	0	*	C	29	10	—	
	Stockholm ...	29.41	30	N	2	0	29.10	-4.4	39	32	+10	SE	2	0	*	0	23	21	0.12	
	Wisby ...	29.47	35	NW	4	C	29.22	-4.4	40	39	+1	SW	6	0	*	C	40	30	0.20	
	Bodö ...	29.32	16	E	2	C	29.25	-1.4	15	13	-4	ENE	2	0	*	C	19	12	—	
	Christiansund...	29.21	35	SW	2	T	29.09	-1.2	36	35	+2	SE	1	0	4	T	29	34	0.09	
	Skudesnaes ...	29.41	46	NW	8	0	29.26	-1.4	40	36	-4	NW	8	C	4	T.0	46	36	—	
	Christiania Fjord (Færdar)	29.38	40	NW	4	bc	29.22	-4.9	38	36	+2	NW	4	C	5	bc	40	36	—	
	Skagen (The Scaw)	29.45	40	NW	2	bc	29.10	-3.2	42	40	+2	NNW	5	0	1	bc	40	34	—	
	Fanö ...	29.63	43	N	6	C	29.42	-4.0	44	43	+1	N	6	C	*	0	45	37	0.51	
BRITISH ISLANDS.	Sumburgh Head	29.36	45	N	3	T	29.38	-2.3	39	36	-6	NNW	4	0	5	C.T	46	37	0.15	
	Stornoway ...	29.63	46	N	4	0	29.39	-4.5	43	40	-2	SE	3	T	3	T.be.0	47	40	0.35	
	Wick ...	29.32	43	NW	5	C	29.44	-3.1	38	37	-6	NW	1	0	2	C	47	37	0.10	
	Nairn ...	29.63	45	N	1	bc	29.45	-4.3	44	44	-1	2	0	T	1	bc	40	42	0.20	
	Aberdeen ...	29.67	42	SW	2	C	29.48	-4.1	41	41	-1	NNW	1	0	2	bc	46	41	0.15	
	Leith ...	29.76	44	N	3	bc	29.54	-4.4	48	46	+3	SW	4	T	*	bc	49	42	0.01	
	Shields ...	29.83	46	N	4	C	29.61	-3.9	48	46	+6	N	5	0	3	o.d.c	48	40	—	
	Spurn Head ...	29.91	44	N	3	0	29.71	-3.0	46	45	+5	NNW	3	0	4	0	46	40	0.01	
	York ...	29.93	46	N	1	0	29.71	-3.4	47	46	+6	N	2	0	*	0	50	40	0.07	
	Loughborough	29.04	45	N	2	0	29.85	-2.6	46	44	+6	NNW	3	C	*	0	47	40	0.01	
GERMANY & HOLLAND.	Ardrossan ...	29.83	49	N	4	P	29.55	-3.1	48	48	+1	SW	5	T	4	0	49	46	0.12	
	Malin Head ...	29.87	49	N	6	0	29.51	-6.1	50	50	+4	SW	6	0	4	0	50	46	0.15	
	Mullaghmore ...	29.10	50	N	5	0	29.70	-3.9	52	51	+5	SW	6	T	*	0	52	45	0.09	
	Belmullet ...	29.37	47	NW	5	T	29.67	-4.8	48	48	+2	NNW	5	T	3	T	49	46	0.23	
	Donaghadee ...	29.83	49	N	4	P	29.55	-3.1	48	48	+1	SW	5	T	4	0	49	46	0.12	
	Liverpool (Bldston)	29.06	47	NW	5	C	29.83	-3.5	47	48	+1	NNW	4	0	4	0	49	47	0.05	
	Holyhead ...	29.17	46	NW	1	T	29.83	-3.5	47	48	+1	NNW	4	0	4	0	49	47	0.05	
	Parsonstown ...	29.25	45	N	4	0	29.96	-4.6	52	51	+5	SW	4	0	4	0	52	46	0.04	
	Valencia ...	29.24	47	NW	3	C	29.98	-3.3	50	49	+4	N	4	C	4	C	50	48	—	
	Roche's Point	29.17	47	NW	5	C	29.95	-3.0	49	48	+2	N	5	C	6	C	50	47	0.02	
FRANCE AND BELGIUM.	Pembroke (St. Ann's Hd.)	29.26	48	NW	5	C	29.11	-1.9	50	47	0	NNW	5	C	5	C	51	45	0.06	
	Scilly ...	29.22	46	NW	2	0	29.03	-1.9	47	46	+2	NNW	5	0	4	0	53	43	—	
	Prawle Point ...	29.20	48	NW	2	bc	29.10	-1.0	50	47	+7	NNW	4	C	4	C	51	41	0.20	
	Jersey (St. Aubin's)	29.15	44	NW	3	C	29.01	-1.9	45	45	+10	NNW	4	0	2	C	49	35	—	
	Hurst Castle ...	29.05	41	NW	2	0	29.94	-1.6	45	44	+11	N	3	C	2	C	45	34	—	
	Dungeness ...	29.05	43	N	2	0	29.87	-2.1	45	43	+11	N	2	bc	2	0	45	34	—	
	North Foreland	29.10	44	NW	2	0	29.93	-1.9	45	43	+11	SW	2	bc	0	0	47	37	—	
	Oxford ...	29.08	43	N	2	0	29.92	-2.3	44	42	+7	SW	2	bc	0	0	47	37	—	
	Cambridge ...	29.04	44	NW	3	T	29.86	-2.4	46	44	+10	SW	5	C	*	T	47	34	0.01	
	Yarmouth ...	29.96	41	N	3	C	29.79	-2.4	45	44	+11	NNW	4	C	4	C	45	31	0.01	
PENINSULA.	Cuxhaven ...	29.83	41	SW	4	0	29.63	-2.8	40	40	+6	N	5	T	*	0	44	34	0.08	
	Berlin ...	29.94	37	SW	2	C	29.78	-1.3	36	35	+2	SW	3	0	*	0	36	32	—	
	Wiesbaden ...	29.03	35	SW	3	0	29.03	-0.1	35	33	-1	2	1	0	*	0	37	32	—	
	Munich ...	29.13	38	SW	2	0	29.12	+1.3	34	33	-4	SW	5	0	*	0	30	21	—	
	The Helder ...	29.58	45	N	4	T	29.77	-2.7	46	45	+5	NNW	5	0	3	T	4	37	0.08	
	Brussels (9 a.m.)	29.04	45	NW	2	C	29.92	-1.4	46	45	+1	NNW	5	0	5	0	46	37	—	
	Cape Gris Nez	29.20	36	SW	2	0	29.10	-0.8	35	38	+9	SW	2	0	*	0	35	36	0.04	
	Brest ...	29.04	49	N	4	0	29.04	-0.8	49	47	+4	NNW	3	C	4	0	52	43	0.08	
	Lorient ...	29.26	48	N	4	bc	29.21	-0.3	48	46	+7	NNW	4	bc	3	bc	50	39	0.04	
	Rochefort ...	29.28	40	NNE	2	C	29.24	+0.4	45	44	+9	N	1	C	*	bc	45	36	—	
GERMANY & HOLLAND.	Belfort ...	29.18	35	NNE	4	0	29.26	+0.5	38	35	-5	NNE	4	bc	*	0	38	37	—	
	Lyons ...	29.01	44	2	0	bc	29.93	+0.0	42	35	+1	E	2	0	*	0	52	35	—	
	Nice ...	29.12	39	NW	5	C	29.19	+0.2	41	34	+3	NNW	4	0	*	0	43	38	—	
	Perpignan ...	29.22	41	ENE	3	C	29.27	+0.1	40	42	+7	2	0	2	0	0	45	36	—	
	Biarritz ...	29.04	45	N	4	bc	29.40	+0.6	49	46	+7	N	4	0	*	0	42	42	—	
	Corunna ..	29.04	45	N	4	bc	29.40	+0.6	49	46	+7	N	4	0	*	0	42	42	—	
	Lisbon ...	29.04	45	N	4	bc	29.40	+0.6	49	46	+7	N	4	0	*	0	42	42	—	

For Explanation of Columns, see bottom of last page.

† Received too late for insertion in Charts on next page.



# WEATHER CHARTS

for 8 a.m. on Saturday, 25<sup>th</sup> Nov. 1893.

## 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

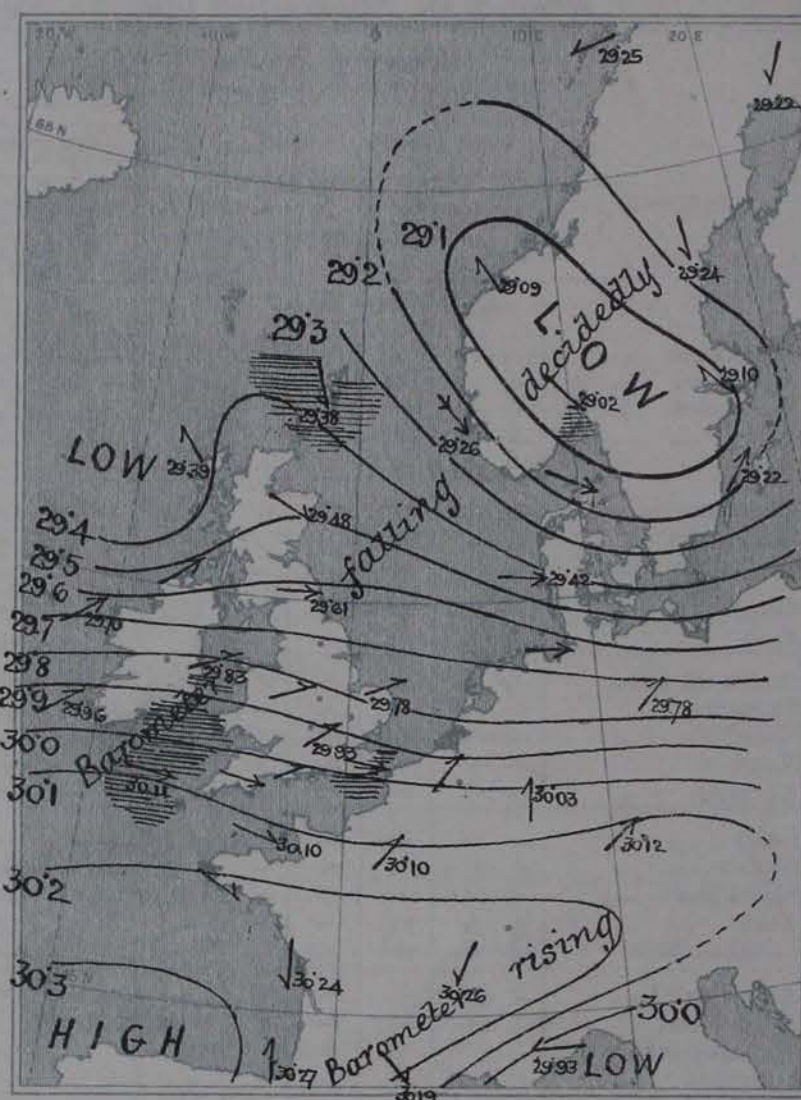
at 8.0 a.m. for the month of November.

During the 20 Years 1871–1890.

#### STATIONS.

#### MEAN READINGS.

STATIONS.	MEAN READINGS.
Sumburgh Head	29.683
Stornoway	29.699
Wick	29.722
Nairn	29.738
Aberdeen	29.758
Leith	29.789
Shields	29.813
Spurn Head	29.842
York	29.846
Loughborough	29.877
Ardrossan	29.791
Mullaghmore	29.780
Donaghadee	29.810
Holyhead	29.835
Liverpool	29.851
Parsonstown	29.847
Valencia	29.865
Roche's Point	29.865
Pembroke	29.864
Seilly	29.897
Prawle Point	29.914
Jersey	29.928
Hurst Castle	29.902
Dover	29.893
LONDON	29.898
Oxford	29.890
Cambridge	29.887
Yarmouth	29.865



## 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.

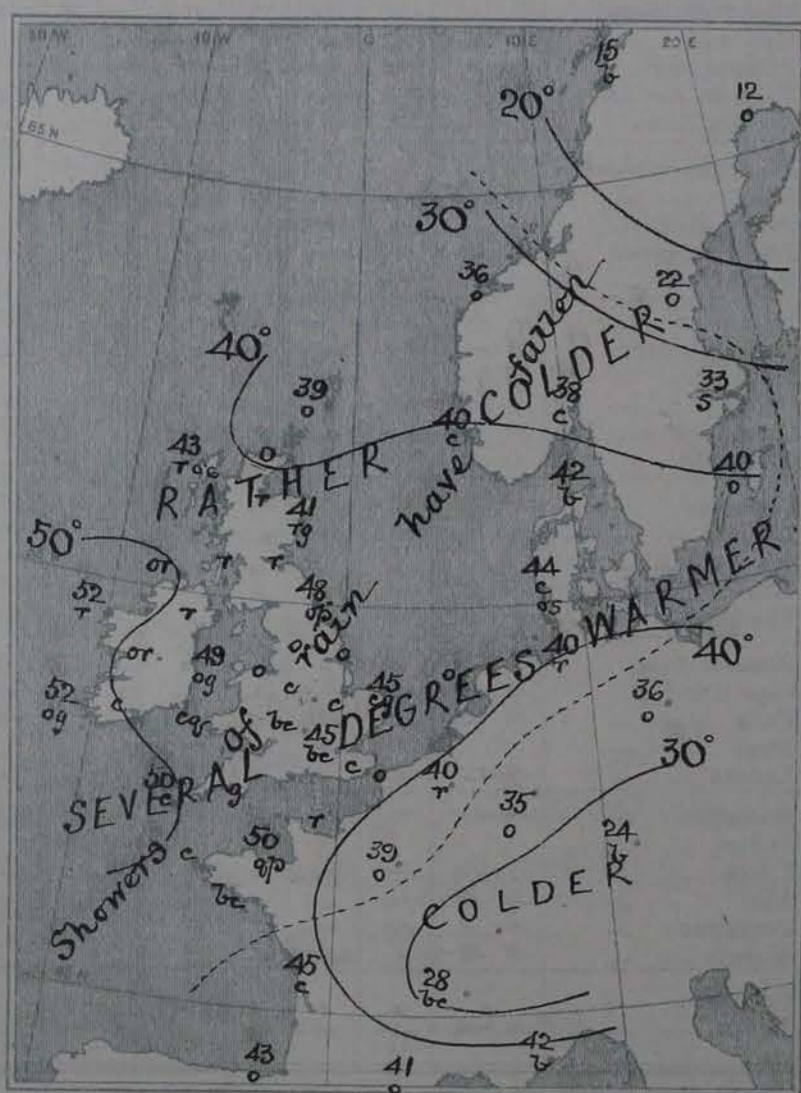
**RAINFALL**—A dotted line separates the districts in which rain has fallen from those where there has been none. Falls of 0.5 in. or more are quoted in figures.

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(For the month of November.)

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Prawle Point	51.1	41.9	46.2	44.7	3.20
Jersey	51.9	44.1	47.7	45.8	4.30
Hurst Castle	50.5	40.6	44.0	44.0	3.01
Dover	49.3	40.6	44.3	42.8	3.48
LONDON	49.3	38.0	42.2	40.8	2.23
Oxford	48.2	37.6	41.2	40.0	2.31
Cambridge	48.6	35.8	40.7	39.0	2.01
Yarmouth	47.5	39.0	43.1	42.0	3.06

NOTE.—The Temperature means are for the 20 years 1871–90, the Rainfall means are mainly those for the 25 years 1866–90.





# GENERAL SITUATION AT 8 A.M.

## PRESSURE

Highest, 30.4 ins: and upwards, in Portugal; 30.2 ins: <sup>and upwards</sup> over the southern parts of France and the Bay of Biscay.  
 Lowest, 29.1 ins: and less, in a large depression lying over Scandinavia; 29.4 ins: and less in another disturbance approaching the west of Scotland.  
 Gradients slight over Scandinavia and also over France, but rather steep elsewhere.  
 Barometer falling at all but the southern French stations, — briskly, on our extreme western coasts.

## TEMPERATURE

Highest, 52° at Belmullet and Valencia (Ireland), 50° at Malin H<sup>d</sup>, Rock Point, Lally, and Jersey, and 49° at Holyhead, Pembroke, and Lisbon.  
 Lowest, (1) 12° at Haparanda, 15° at Bodö, 22° at Helsingfors, and 33° at Stockholm; (2) 24° at Munich, 28° at Lyons, and 35° at Wiesbaden.  
 During yesterday the thermometer rose to 50° or a little above it on several parts of our western coasts.

## WIND

Moderate to strong from the W<sup>nd</sup> or SW<sup>nd</sup> over Ireland, England, Denmark, Germany, and the Netherlands.  
 Light from the NW<sup>nd</sup> in the east of Scotland, and strong to a gale from the same quarter in the south of Norway, but SE<sup>nd</sup> in the Hebrides.  
 N<sup>nd</sup> over the northern parts of Sweden, variable in the southern parts of France.

## WEATHER

Rainy in Scotland and the north of Ireland, and cloudy in most other parts of Western Europe, but fine in the southeast of England.  
 Rain is falling at Copenhagen and Brussels.  
 Showers fell yesterday in many parts of the United Kingdom, and heavy rain in the Hebrides.

## SEA

Rough at Pembroke, and rather rough at Faeröer, Lumburg H<sup>d</sup>, Lally, and Cape Fin Mark, moderate or slight elsewhere.

## PROBABLE CHANGES IN SYSTEM NOW PREVALENT

The depression which is approaching the west of Scotland will probably move eastwards. Increasing winds are likely in most parts of our Islands, with squally, rainy weather in many districts.

# FORECASTS

For the 24 hours ending at NOON on 26<sup>th</sup> Nov<sup>r</sup> 1893.

DISTRICTS.		FORECASTS.	
0	SCOTLAND NORTH	SE <sup>ly</sup> winds, freshening, and shifting to the NW <sup>ly</sup> ; squally, rainy.	
1	SCOTLAND EAST		
2	ENGLAND N.E.	Same as No 5	
3	ENGLAND EAST		
4	MIDLAND COUNTIES		
5	ENGLAND SOUTH	SW <sup>ly</sup> and W <sup>ly</sup> winds, increasing in force, fair to squally and some rain.	

DISTRICTS.		FORECASTS.	
6	SCOTLAND WEST	SW <sup>ly</sup> to W <sup>ly</sup> and NW <sup>ly</sup> winds, increasing in force; squally, some rain.	
7	ENGLAND N.W.		
8	ENGLAND S.W.		
9	IRELAND NORTH		
10	IRELAND SOUTH		
WARNINGS		The signals are still flying in districts 0 to 3, 6, 7 and 9.	

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



# YESTERDAY'S 2 P.M. REPORTS.

	BAR.	THER.		WIND. Direc.	F.	WEA.	SEA.		BAR.	THER.		WIND. Direc.	F.	WEA.	SEA.
		Dry.	Wet.							Dry.	Wet.				
Skudesnaes ...	29.55	42	41	WNW	2	p	5	Valencia ...	30.34	48	47	W	5	omg	5
Sumburgh Head ...	29.48	45	43	WNW	4	c	5	Soilly ...	30.30	50	47	WNW	5	c	4
Stornoway ...	29.74	47	47	W	4	bc	4	Jersey ...	30.20	51	48	WNW	5	cf	5
Aberdeen ...	29.74	45	41	WNW	2	bc	3	Hurst Castle ...	30.15	48	45	WNW	2	cm	2
Shields ...	29.90	46	44	W	2	o	4	Dungeness ...	30.06	48	48	WNW	2	c	2
Ardrossan ...	29.90	49	47	W	4	of	3	North Foreland ...	30.06	42	40	W	2	o	2
Malin Head ...	29.95	47	45	W	6	odp	4	London (W. & A. ...)	30.09	47	44	WNW	1	gm	*
Mullaghmore ...	30.16	49	47	W	5	o	*	Yarmouth ...	29.98	42	41	WNW	2	cf	4
Belmullet ...	30.12	47	45	WNW	5	og	5	Rochefort ...	30.25	42	40	WNE	2	bc	*
Holyhead ...															

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

Weather cloudy or overcast in most parts of our Islands and the Continent, but fine in Sweden as well as at some of the French stations. Rain falling in the Shetlands and Hebrides, as well as at some of the Austrian and Italian stations, and passing showers in some parts of England and Ireland; snow reported at Munich and Lemberg. Rain falling during day in many parts of the United Kingdom, heavily at Stornoway.

Temperature risen over our Islands, as well as in Italy, Austria, and the southern parts of Russia, but fallen elsewhere. Morning readings highest 68° at Brindisi, 64° at Leria, and Malta, and 58° at Naples. Above 50° over the central parts of the Mediterranean generally, and above 45° at most of our own western stations. Lowest 13° at Archangel, 17° at Haparanda, and 19° at Rode and Uleaborg; below the freezing point in many parts of northern, eastern, and central Europe, and very little above it in the south-east of England. Daily maxima a little above 50° at several of our western stations, but below it in most parts of France and below 40° in Germany.

Wind moderate from the W<sup>nd</sup> at most of our northern and eastern stations, as well as in Denmark, Germany, and the south of Scandinavia. Strong from the NW<sup>nd</sup> on our western coasts, and light from the same quarter in the south of England; N<sup>th</sup> over France and Spain. Strong from the S<sup>nd</sup> over the southern parts of Italy and the Adriatic. Moderating somewhat later on our western coasts, no important change occurring elsewhere.

Barometer highest 30.4 in: and upwards, in an anticyclone lying to the SW<sup>nd</sup> over our Islands. Lowest 29.3 in: and less, in a depression over Finland and the north of Sweden; 29.6 in: and less in a complex disturbance stretching across the Adriatic, northern Italy, Sardinia, and the neighbouring parts of the Mediterranean. Fall taking place over our Islands during day, the change being greatest in the north.

### EXPLANATION OF THE 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.

N.B.—The morning observations are made at 8 a.m. in the British Islands, Germany, Sweden, and Norway, 7 a.m. in France, Spain and Portugal, and 9 a.m. in Belgium. The evening observations are made at 6 p.m. in the British Islands (as a rule), and France, 8 p.m. at Oxford, in Sweden, Norway, and Germany, and 9 p.m. in Belgium. The time at each Station is the Standard Time of its Country.

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# DAILY WEATHER REPORT

for 8 a.m. on Sunday 26<sup>th</sup> November,

1893

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

STATIONS.		YESTERDAY EVENING. (See note at bottom of last page.)					THIS MORNING. (See note at bottom of last page.)										PAST 24 HOURS.			
		Barom. Reading at 32° F. and Sea Level.	Temp. Dry Bulb.	Wind.		Weather.	Barometer. Reading at 32° F. and Sea Level.	Change since Yesterday Morn.	Shade Temp.		Wind.		Sea (0 to 9).	Weather.	Shade Temp.		Amount of Rainfall.			
				Dir.	Force (0 to 12).				Dry Bulb.	Wet Bulb.	Change in dry since Yesterday.	Dir.			Force (0 to 12).	Max.		Min.		
		Inch.	°				Inch.	°	°	°						°	Inch.			
SCANDINAVIA.	Haparanda ...	29.25	10	Z	0	0	29.36	+ .14	14	13	+ 2	NE	2	c	#	0	14	9	—	
	Hernösand ...	29.28	7	NE	3	T	29.39	+ .15	16	15	— 6	N	4	s	#	T	25	10	0.04	
	Stockholm ...	29.10	32	NW	2	S	29.37	+ .27	28	26	— 5	Z	0	be	#	S	24	25	0.32	
	Wisby ...	29.12	36	NNW	6	0	29.34	+ .12	34	33	— 6	SE	2	0	#	0	41	34	0.08	
	Bodö ...	29.29	16	E	4	6	29.42	+ .17	16	14	+ 1	E	4	6	2	6	16	12	—	
	Christiansund...	29.28	32	E	1	6	29.41	+ .32	28	27	— 8	ESE	1	6	3	6	36	28	0.08	
	Skudesnaes ...																			
	Christiania Fjord (Fjord)	29.24	34	NNE	2	6	29.37	+ .35	29	28	— 9	NNE	3	S	2	6	38	28	—	
	Skagen (The Seaw)	29.23	38	NNW	1	6	29.28	+ .18	35	33	— 7	E	2	c	0	6	45	34	—	
	Fanö ...	29.36	41	Z	0	T	29.26	— .16	39	38	— 5	ENE	4	T	#	T	46	39	0.28	
BRITISH ISLANDS.	Sumburgh Head	29.32	37	N	2	c	29.56	+ .18	33	32	— 6	N	4	S	5	c	39	31	0.04	
	Stornoway ...	29.29	40	NE	4	r	29.33	+ .44	35	35	— 8	N	6	0	6	r	43	32	0.10	
	Wick ...	29.31	38	NW	3	6	29.67	+ .23	33	32	— 5	NNE	7	chpw	3	6	39	32	0.10	
	Nairn ...	29.25	40	ENE	2	r	29.74	+ .29	35	35	— 9	NNW	2	c	1	r	44	33	0.19	
	Aberdeen ...	29.28	41	ENE	5	0	29.63	+ .15	35	32	— 6	NW	6	cq	4	rm, sp	43	34	0.26	
	Leith ...	29.26	48	SW	3	0	29.68	+ .14	38	35	— 10	NNW	4	c	#	0	52	36	0.07	
	Shields ...	29.31	52	WSW	2	r	29.56	— .05	40	38	— 8	NNW	5	og	4	r	52	39	0.14	
	Spurn Head ...	29.40	48	SW	4	op	29.42	— .29	44	42	— 2	N	6	op	5	op	48	43	0.34	
	York ...	29.41	49	WSW	1	r	29.56	— .15	42	39	— 5	NW	3	c	#	r	50	41	0.40	
	Loughborough	29.53	49	SW	4	r	29.48	— .37	45	44	— 1	N	3	r	#	rq	50	45	0.21	
GERMANY & HOLLAND.	Ardrossan ...	29.30	49	W	3	c	29.71	+ .16	40	37	— 8	NW	4	cp	3	p, c	52	37	0.18	
	Malin Head ...	29.36	48	W	4	0	29.85	+ .34	42	38	— 8	N	7	0	4	0	50	41	0.18	
	Mullaghmore ...																			
	Belmullet ...	29.52	49	SW	4	0	30.00	+ .30	44	39	— 8	N	5	be	#	0	52	40	0.20	
	Donaghadee ...	29.39	49	WSW	5	0	29.73	+ .06	43	40	— 5	N	6	be	4	0	52	40	0.25	
	Liverpool (Bidston)	29.42	49	SW	3	r	29.61	— .19	43	42	— 4	N	3	r	2	r	50	42	0.45	
	Holyhead ...	29.42	51	SW	5	omg	29.65	— .18	44	43	— 5	NNE	7	rmgq	6	omg	52	44	0.32	
	Parsonstown ...	29.53	49	SW	1	0	29.86	+ .01	40	37	— 8	SW	7	c	#	0	52	40	0.23	
	Valencia ...	29.68	50	WSW	5	og	29.95	— .01	48	45	— 4	N	7	cq	6	og	54	45	0.27	
	Roche's Point	29.61	51	WNW	5	c	29.83	— .15	45	42	— 5	N	7	c	4	d, c, p	53	44	0.20	
FRANCE AND BELGIUM.	Pembroke (St. Ann's Hd.)	29.51	51	SW	6	r	29.68	— .27	47	44	— 2	NNW	6	ogq	6	r	52	46	0.40	
	Scilly ...	29.73	53	SW	7	r	29.70	— .41	50	48	— 0	NNW	7	c	5	cmp, r	53	47	0.06	
	Prawle Point ...	29.75	50	WSW	7	p	29.63	— .40	43	43	— 4	W	3	c	2	p	51	38	0.16	
	Jersey (St. Aubin's)	29.90	49	W	4	c	29.59	— .51	49	46	— 1	WNW	4	be	4	pg, cmp	53	48	0.28	
	Hurst Castle ...	29.74	48	SW	5	0	29.54	— .47	44	43	— 1	W	4	cm	4	cm, p	50	43	0.10	
	Dungeness ...	29.70	49	W	4	c	29.44	— .50	45	45	— 0	NW	3	cp	3	o, c.	49	34	0.15	
	North Foreland	29.66	49	WSW	5	r	29.43	— .46	46	45	+ 1	W	4	cq	2	r	50	42	0.21	
	London ...	29.68	49	SW	4	0	29.49	— .44	45	44	— 0	W	3	c	#	or	50	43	0.31	
	Oxford ...	29.52	48	SW	3	r	29.50	— .42	44	43	— 0	W	3	rw	#	op	50	42	0.32	
	Cambridge ...	29.58	49	SSW	7	0	29.44	— .42	46	45	— 0	W	1	r	#	o, r	51	44	0.57	
PENINSULA.	Yarmouth ...	29.55	47	WSW	5	r	29.34	— .45	46	45	+ 1	NW	3	ogm	4	og, r	48	43	0.63	
	Cuxhaven ...	29.55	44	W	4	r	29.27	— .36	45	45	+ 5	SW	4	r	#	r	46	40	0.44	
	Berlin ...	29.60	38	WSW	5	r	29.48	— .30	40	39	+ 4	WSW	4	r	#	r	40	32	0.28	
	Wiesbaden ...	*	*	*	*	*	29.65	— .38	41	39	+ 6	SW	2	0	#	#	41	35	—	
	Munich ...	30.02	31	SW	6	0	29.82	— .28	30	28	+ 6	SW	5	6	#	0	41	34	—	
	The Helder ...	29.52	43	SW	6	r	29.29	— .48	46	46	— 0	SW	6	r	3	r	48	43	0.55	
	Brussels (9 a.m.)	*	*	*	*	*	29.38	— .58	46	46	+ 6	WSW	6	r	#	r	46	39	0.16	
	Cape Gris Nez																			
	Paris ...	29.77	45	SW	2	r	29.60	— .50	47	46	+ 8	SW	3	0	#	r	47	39	0.12	
	Brest ...	?	52	W	6	c	?	?	50	48	+ 1	NNW	5	c	4	c	54	46	0.24	
PENINSULA.	Lorient ...	30.02	50	W	5	be	29.69	— .52	50	48	+ 2	NW	6	be	4	be	54	46	0.24	
	Rochefort ...	30.16	47	W	3	0	29.77	— .47	51	51	+ 6	W	4	0	#	0	52	45	0.55	
	Belfort ...	?	35	WNW	2	s	?	?	41	40	—	WSW	2	c	#	s	43	33	0.20	
	Lyons ...	30.21	33	S	1	0	29.97	— .29	35	33	+ 7	S	1	be	#	0	38	28	—	
	Nice ...	30.00	44	Z	0	6	29.99	+ .06	39	35	— 3	E	2	6	2	6	52	37	—	
	Perpignan ...	30.18	45	NE	2	6	30.05	— .14	35	33	— 6	W	2	6	#	6	52	35	—	
	Biarritz ...	30.22	52	NW	4	r	29.97	— .30	49	46	+ 6	SW	5	r	4	r	54	43	0.24	
	Corunna ...	*	*	*	*	*														
	Lisbon ...	30.41	49	N	3	6	30.32	— .11	50	49	+ 1	NNW	3	be	*	6	57	48	—	

For Explanation of Columns, see bottom of last page.

† Received too late for insertion in Charts on next page.



# WEATHER CHARTS

for 8 a.m. on Sunday, 26. Nov<sup>r</sup> 1893.

## 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 3 to 4.

○ = dead calm.

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

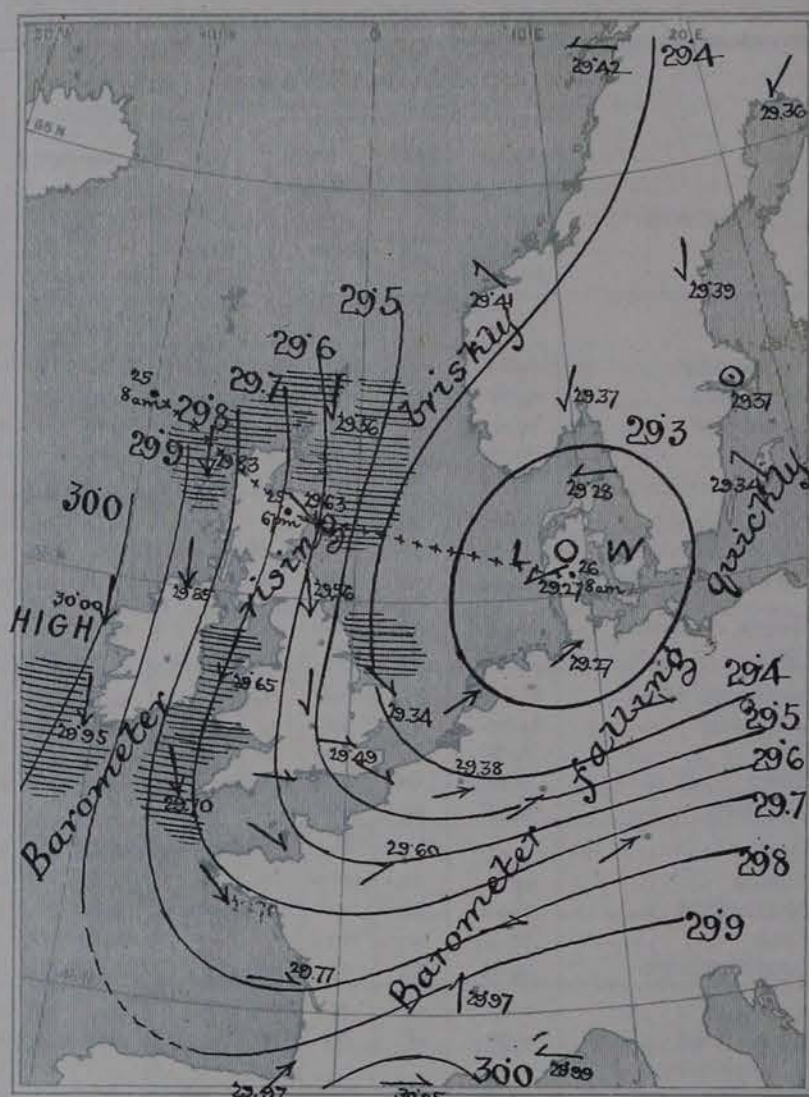
— Rough. — High.

### MEAN HEIGHT OF THE BAROMETER

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

During the 20 Years 1871–1890.

STATIONS.	MEAN READINGS.
Sumburgh Head	29.683
Stornoway	29.699
Wick	29.722
Nairn	29.738
Aberdeen	29.758
Leith	29.789
Shields	29.813
Spurn Head	29.842
York	29.846
Loughborough	29.877
Ardrossan	29.701
Mullaghmore	29.780
Donaghadee	29.810
Holyhead	29.835
Liverpool	29.851
Parsonstown	29.847
Valencia	29.865
Roche's Point	29.865
Pembroke	29.864
Scilly	29.897
Prawle Point	29.914
Jersey	29.928
Hurst Castle	29.902
Dover	29.893
LONDON	29.898
Oxford	29.896
Cambridge	29.887
Yarmouth	29.865



## 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.

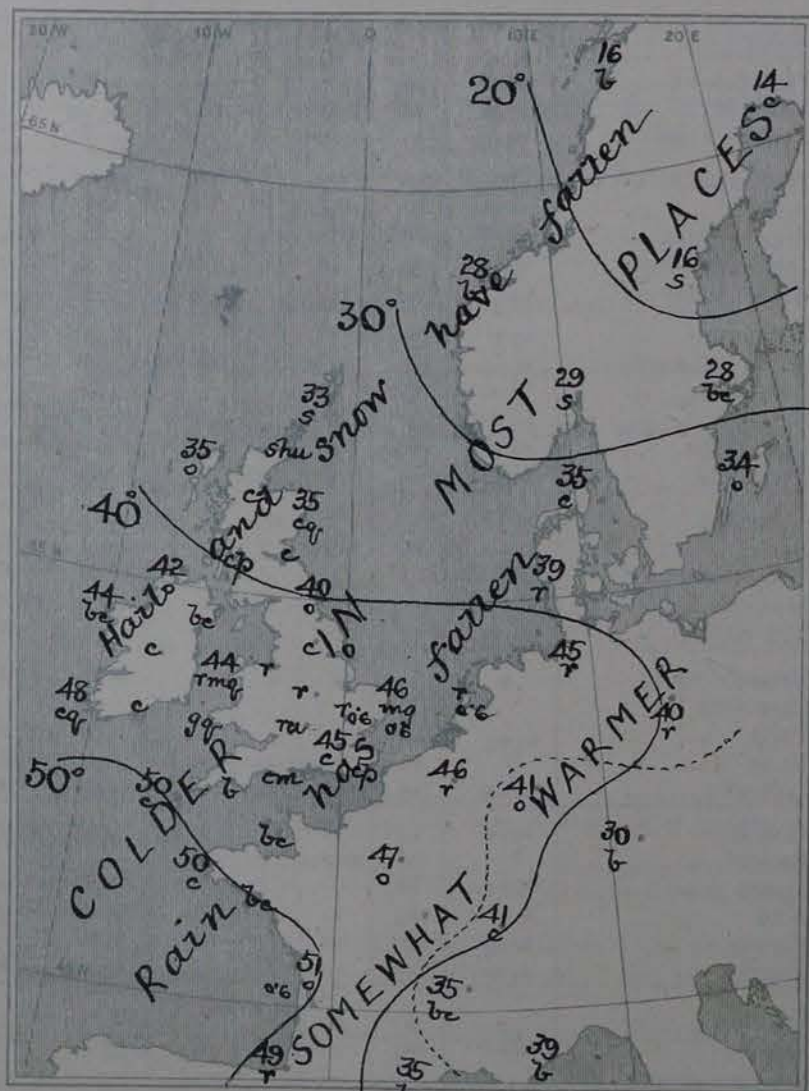
**RAINFALL**—A dotted line separates the districts in which rain has fallen from those where there has been none. Falls of 0.5 in. or more are quoted in figures.

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

(For the month of November.)

STATIONS.	TEMPERATURE.				RAINFALL. (Inches.)
	Daily Max.	Daily Min.	at 8 a.m.		
			Dry.	Wet.	
Sumburgh Head	45.6	37.8	42.0	40.3	4.16
Stornoway	46.2	37.0	41.7	40.7	4.70
Wick	46.1	36.1	41.4	39.8	2.93
Nairn	45.3	35.7	39.8	38.2	2.29
Aberdeen	46.2	36.5	40.5	38.7	3.14
Leith	48.1	37.0	41.7	40.0	2.20
Shields	47.3	37.9	42.1	40.5	2.61
Spurn Head	46.8	40.2	43.2	41.9	2.40
York	47.5	36.4	40.6	39.3	2.10
Loughborough	48.0	36.6	40.5	39.3	2.24
Ardrossan	47.8	39.1	43.1	41.3	3.88
Mullaghmore	40.6	41.2	45.1	43.1	4.48
Donaghadee	48.3	39.2	43.2	42.0	3.20
Holyhead	49.7	42.9	45.8	44.0	3.88
Liverpool	47.8	39.6	42.5	40.7	2.90
Parsonstown	49.1	37.1	41.9	40.2	2.83
Valencia	52.3	43.0	47.4	45.5	5.42
Roche's Point	51.1	42.0	46.1	44.5	4.62
Pembroke	50.1	43.8	46.9	45.1	4.04
Scilly	52.4	46.7	50.0	48.0	3.72
Prawle Point	51.1	41.9	46.2	44.7	3.20
Jersey	51.9	44.1	47.7	45.8	4.30
Hurst Castle	50.5	40.6	44.9	44.0	3.01
Dover	49.3	40.6	44.3	42.8	3.48
LONDON	49.3	38.0	42.2	40.8	2.23
Oxford	48.2	37.6	41.2	40.0	2.31
Cambridge	48.6	35.8	40.7	39.9	2.01
Yarmouth	47.5	39.0	43.1	42.0	3.08

NOTE.—The Temperature means are for the 20 years 1871–90, the Rainfall means are mainly those for the 25 years 1866–90.





# GENERAL SITUATION AT 8 A.M.

## PRESSURE

Highest, 30.3 in. and upwards, over the southern part of the Spanish Peninsula; 30.0 in. and upwards, in the extreme west of Ireland.  
Lowest, 29.3 in. and less, in a depression over Denmark, and the adjacent part of the North Sea.

Gradients moderate generally, but rather steep over North Germany.

Barometer rising in our Islands and Scandinavia, - quickly on our western and northern coasts; falling in Denmark, France, Germany and the Netherlands.

## TEMPERATURE

Highest, 51° at Rochefort, 50° at Bally, Brest, Lisieux, and Lisbon, and 49° at Jersey and Biarritz.

Lowest, 14° at St. Petersburg, 16° at Rodez and Hemsund, 28° at Stockholm, 29° at Fander, and 33° at Lumburg Head and Wick.

During yesterday the thermometer rose to between 50° and 55° in most parts of Ireland, England, and France, in the extreme north of Scotland it did not reach 40°.

## WIND

Strong from the N. in all the more western and northern parts of our Islands, with moderate gales in some of the more exposed places.

Moderate from the W. in the south and southeast of England; SW. over the greater part of France and Germany.

Light from the E. in Norway and Denmark.

## WEATHER

Rainy over the central parts of England, as well as in Germany and the Netherlands.

Cloudy in most other parts of our area, with local showers, and with snow in the north of Scotland.

Rain fell yesterday over Western Europe generally, - rather heavily in places.

## SEA

Rough or rather so on most of our western, northern, and northwestern coasts, but moderate or slight in the south and southeast.

PROBABLE CHANGES IN SYSTEM NOW PREVALENT

# FORECASTS

For the 24 hours ending at NOON on 27<sup>th</sup> Nov: 1893.

## DISTRICTS.

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

## FORECASTS.

NONE ISSUED.

## DISTRICTS.

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

## WARNINGS

## FORECASTS.

NONE ISSUED.

At 3.40 pm yesterday to districts 5, 8, and 10.  
Hoist South Cone, and at 8.30 am today, 0 to 3, 6, 7, and 9. Hoist North Cone.

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.	P.	WEA.	SEA.		BAR.	THER.		WIND.	F.	WEA.	SEA.
		Dry.	Wet.	Dirac.						Dry.	Wet.	Dirac.			
Skudesnaes ...	29.30	39	37	NNW	4	b	3	Valencia ...	29.69	54	54	SW	6	rgm	5
Sumburgh Head	29.33	38	35	N	3	e	4	Scilly ...	29.92	52	48	WSW	6	cnp	5
Stornoway ...	29.30	42	42	NE	5	r	5	Jersey ...	29.03	52	50	W	4	ogp	4
Aberdeen ...	29.32	42	42	E	3	orgm	3	Hurst Castle	29.85	49	47	WSW	6	c	3
Shields ...	29.43	51	49	WSW	4	r	3	Dungeness...	29.80	49	47	W	5	o	4
Ardrossan ...	29.34	52	51	SW	3	op	3	North Foreland...	29.83	50	47	W	2	c	2
Malin Head ...	29.38	49	49	WNW	5	o	4	London (Westminster)	29.77	51	48	SW	2	o	*
Mullaghmore ...	29.53	51	50	NW	5	o	*	Yarmouth ...	29.69	48	46	WSW	5	cg	4
Belmullet ...	29.59	50	50	SW	5	org	5	Rocheport ...	30.20	51	49	WNW	3	e	*

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

Weather cloudy or overcast in most parts of our Islands and the Continent, with rain in Scotland and the north of Ireland, as well as at some of the Italian stations, and with snow at Stockholm. Fine in the southeast of England and also in Spain and the southern parts of France and Germany. Rain falling later in nearly all parts of Western Europe — heavily in places, and snow over Denmark and the Baltic provinces.

Temperature risen over England, Ireland, France, Germany, and the Baltic, but fallen elsewhere. Morning readings highest (1) 62° at Malta, 59° at Legna, 58° at Palermo, and 56° at Brindisi; (2) 52° at Belmullet and Valencia (Ireland); above 45° at most of the English and Irish stations. Lowest 12° at Haparanda, 13° at Ulsaborg and Kuopio, and 15° at Archangel; below the freezing point in many parts of northern, eastern, and central Europe. Rising during day to between 50° and 55° in most parts of Ireland, England, France and Spain; exceeding 60° in the south of Italy, and reaching 66° at Brindisi, Palermo, and Malta.

Wind moderate to strong from the NW<sup>th</sup> or SW<sup>th</sup> over Ireland, England, the Netherlands, Denmark, and Germany. Light from the NW<sup>th</sup> in the east of Scotland and strong to a gale from the same quarter in the south of Norway; light from E. or SE. in the west of Norway. Light to moderate from the N<sup>th</sup> or NW<sup>th</sup> over the greater part of Southern Europe, but S<sup>th</sup> or SW<sup>th</sup> over Algeria and the south of Italy. Subsequently shifting to the E<sup>th</sup> or NE<sup>th</sup> in Scotland; increasing to a gale from N. or SW. at some of the German stations.

Barometer highest 30.4 ins. and upwards, in an anticyclone lying off the Portuguese coasts. Lowest, 29.1 ins. and less, in a depression over the southern parts of Scandinavia; 29.4 ins. and less, in another disturbance off the west of Scotland; 29.9 ins. and less, in a complex system over the central part of Italy and the Adriatic. The two former depressions moving eastwards later, the one to the Baltic Provinces and the other to Central Scotland. Italian low pressure area partially filling up.

### EXPLANATION OF THE 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.

N.B.—The morning observations are made at 8 a.m. in the British Islands, Germany, Sweden, and Norway, 7 a.m. in France, Spain and Portugal, and 9 a.m. in Belgium. The evening observations are made at 6 p.m. in the British Islands (as a rule), and France, 8 p.m. at Oxford, in Sweden, Norway, and Germany, and 9 p.m. in Belgium. The time at each Station is the Standard Time of its Country.

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„ Weekly „ „ „ £1 10 0 „



# DAILY WEATHER REPORT

for 8 a.m. on MONDAY. 27<sup>th</sup> NOVEMBER. 1893

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

STATIONS.		YESTERDAY EVENING. (See note at bottom of last page.)					THIS MORNING. (See note at bottom of last page.)										PAST 24 HOURS.			
		Barom.	Temp.	Wind.		Weather.	Barometer.		Shade Temp.			Wind.		Sea (0 to 9).	Weather.	Shade Temp.		Amount of Rainfall.		
				Reading at 32° F. and Sea Level.	Dry Bulb.		Direc.	Force (0 to 12).	Reading at 32° F. and Sea Level.	Change since Yesterday Morn.	Dry Bulb.	Wet Bulb.	Change in dry since Yesterday.			Direc.	Force (0 to 12).		Max.	Min.
		Ina.	°				Ina.	°	°	°						°	Ina.			
SCANDINAVIA.	Haparanda ...	29.67	6	NE	4	c	29.82	+146	22	22	-16	N	2	b	*	c	16	*	—	
	Hernösand ...	29.71	15	N	2	o	29.90	+151	10	6	-6	2	0	b	*	o	19	*	—	
	Stockholm ...	29.58	19	2	0	c	29.88	+151	17	16	-11	NW	2	b	*	c	24	17	—	
	Wisby ...	29.45	22	NNE	4	s	29.82	+148	29	28	-5	NE	4	c	*	s	37	28	0.20	
	Bodö ...	29.65	17	E	2	b	29.58	-07	28	26	+12	E	4	0	2	b	37	14	—	
	Christiansund...	29.80	26	NNE	4	c	29.73	+122	33	31	+5	SE	6	0	4	c	36	28	—	
	Skudesnaes ...	29.86	22	NNW	2	b	29.95	+108	36	34	+2	SE	4	s	3	bc b	36	28	—	
	Christiania Fjord (Færder)	29.78	30	NNE	6	b	29.97	+160	28	26	-1	2	0	b	1	b	30	27	—	
	Skagen (The Scaw)	29.72	30	NE	2	b	30.01	+170	30	28	-5	2	0	b	0	b	36	27	—	
	Fanö ...	29.82	31	N	2	b	30.10	+128	30	28	-9	N	1	b	*	b	29	28	—	
BRITISH ISLANDS.	Sumburgh Head	29.91	34	NNW	3	c	29.72	+16	41	39	+2	SW	2	0	4	c	41	33	0.02	
	Stornoway ...	29.83	34	N	4	o	29.84	+01	46	46	+11	N	6	7	5	s. o	46	33	0.06	
	Wick ...	29.99	29	NW	3	bc	29.80	+19	39	38	+6	N	3	0	2	bc	39	27	0.05	
	Nairn ...	30.04	32	NNW	1	b	29.92	+18	41	40	+6	SW	2	c	1	b	41	24	—	
	Aberdeen ...	30.02	33	NW	4	bc	29.93	+16	32	31	-3	S	2	omg	4	9. bc	36	28	0.20	
	Leith ...	30.08	36	NW	2	b	30.07	+109	39	38	+1	WNW	2	bc	*	b	40	32	—	
	Shields ...	29.97	37	NNW	4	c	30.15	+150	36	35	-4	WNW	2	og	5	og	40	28	—	
	Spurn Head ...	29.86	40	NNW	7	c	30.24	+132	35	31	-9	SW	3	c	5	c	44	30	0.15	
	York ...	29.96	36	N	7	b	30.23	+167	34	32	-2	WNW	1	c	*	b	44	27	—	
	Loughborough	29.58	35	NNW	5	b	30.31	+183	34	31	-11	WNW	2	0	*	b	46	28	—	
GERMANY & HOLLAND.	Ardrossan ...	30.07	40	NW	1	c	30.09	+138	45	44	+5	WNW	3	of	2	c	45	34	0.04	
	Malin Head ...	30.10	44	NW	3	of	30.10	+125	47	46	+5	SW	3	odp	3	of	47	40	0.20	
	Mullaghmore ...	30.22	44	NNW	3	bc	30.25	+125	49	48	+5	SW	2	om	*	bc	49	38	0.02	
	Belmullet ...	30.14	42	NNW	6	c	30.20	+147	42	42	-1	WNW	4	0	2	c	43	41	0.02	
	Donaghadee ...	30.09	38	N	2	b	30.26	+165	43	42	0	WNW	3	0	2	b	43	33	0.01	
	Holyhead ...	30.05	41	NNE	6	b	30.26	+161	45	45	+1	N	4	og	4	bc b	45	40	0.20	
	Parsonstown ...	30.23	43	NNE	1	b	30.31	+145	42	41	+2	SW	1	og	*	b	47	31	—	
	Valencia ...	30.21	42	N	2	b	30.41	+146	48	46	0	SW	3	og	4	b	48	38	—	
	Roche's Point	30.27	42	N	4	b	30.40	+157	41	39	-4	WNW	1	og	3	b	45	35	—	
	Pembroke (St. Ann's Hd.)	30.11	40	NNE	6	b	30.37	+169	47	44	0	WNW	3	b	4	b	48	37	0.05	
FRANCE AND BELGIUM.	Scilly ...	30.01	47	N	7	c	30.47	+177	47	42	-5	N	4	c	5	c	51	42	0.02	
	Prawle Point ...	30.00	39	ENE	3	bc	30.35	+172	34	32	-2	NNW	2	b	1	bc	33	31	—	
	Jersey (St. Aubin's)	30.00	48	NNW	6	og	30.40	+171	42	39	-3	NE	3	bc	3	c. og	54	41	0.15	
	Hurst Castle ...	29.94	45	N	5	bc	30.39	+185	31	29	-13	N	3	bc	2	T. og	49	29	0.02	
	Dungeness ...	29.74	41	N	6	c	30.30	+186	32	31	-13	N	2	b	2	T. c	50	31	0.06	
	North Foreland	29.78	43	N	5	c	30.33	+190	35	34	-11	NW	2	b	2	T. c	46	32	0.17	
	London ...	29.89	49	N	7	c	30.35	+186	38	26	-17	N	1	b	*	of c	47	28	0.11	
	Oxford ...	30.06	34	NW	2	b	30.37	+187	31	29	-13	SW	1	og	*	T. b	46	27	0.05	
	Cambridge ...	29.89	36	NNW	8	c	30.34	+190	28	27	-18	WNW	2	b	*	c	47	26	0.20	
	Yarmouth ...	29.67	43	N	5	c	30.23	+189	34	33	-12	WNW	3	bc	4	c	48	32	0.18	
PENINSULA.	Cuxhaven ...	29.83	39	NNE	5	bc	30.13	+126	34	32	-11	N	4	b	*	bc	45	33	0.20	
	Berlin ...	29.53	43	SW	4	T	29.32	+144	31	29	-9	NW	4	b	*	T	45	31	0.20	
	Wiesbaden ...	*	*	*	*	*	30.09	+144	36	33	-5	NNW	2	b	*	*	45	36	—	
	Munich ...	29.71	36	SW	4	o	29.93	+109	35	35	+5	NW	7	T	*	o	37	30	0.12	
	The Helder ...	29.76	43	N	5	b	30.23	+144	37	36	-9	NNW	1	b	1	b	46	37	0.12	
	Brussels (9 a.m.)	*	*	*	*	*	30.25	+187	33	32	-10	N	1	b	*	c	48	33	0.16	
	Cape Gris Nez	29.75	46	NNW	2	b	30.23	+163	35	34	-12	N	2	b	*	b	52	35	—	
	Paris ...	29.75	45	N	6	T	30.24	+164	37	37	-12	NE	2	b	*	T	52	34	—	
	Brest ...	29.87	50	NNW	5	c	30.24	+164	41	39	-7	N	5	b	2	c	52	39	—	
	Lorient ...	29.87	48	N	4	b	30.24	+167	40	38	-11	ENE	4	b	*	bc b	53	37	—	
PENINSULA.	Rochefort ...	29.87	48	N	4	b	30.24	+167	40	38	-11	ENE	4	b	*	bc b	53	37	—	
	Belfort ...	29.87	48	N	4	b	30.24	+167	40	38	-11	ENE	4	b	*	bc b	53	37	—	
	Lyons ...	29.84	41	S	3	T	30.03	+106	41	40	+6	NNW	1	T	*	T	42	35	0.16	
	Nice ...	29.90	43	SW	2	c	29.90	-09	41	38	+2	E	3	b	1	c	32	35	—	
	Perpignan ...	29.92	47	SW	2	o	30.06	+101	38	37	+3	N	2	b	*	o	36	35	—	
	Biarritz ...	29.92	32	WNW	6	o	30.05	+101	47	46	-1	NE	6	T	5	o	32	45	0.09	
	Corunna ...	30.10	34	NNW	4	b	30.15	-17	46	46	-4	NNW	4	b	*	T. b	57	46	0.20	
	Lisbon ...	30.10	34	NNW	4	b	30.15	-17	46	46	-4	NNW	4	b	*	T. b	57	46	0.20	

For Explanation of Columns, see bottom of last page.

† Received too late for insertion in Charts on next page.



# WEATHER CHARTS

for 8 a.m. on Monday, 27. Nov. 1893.

## 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:

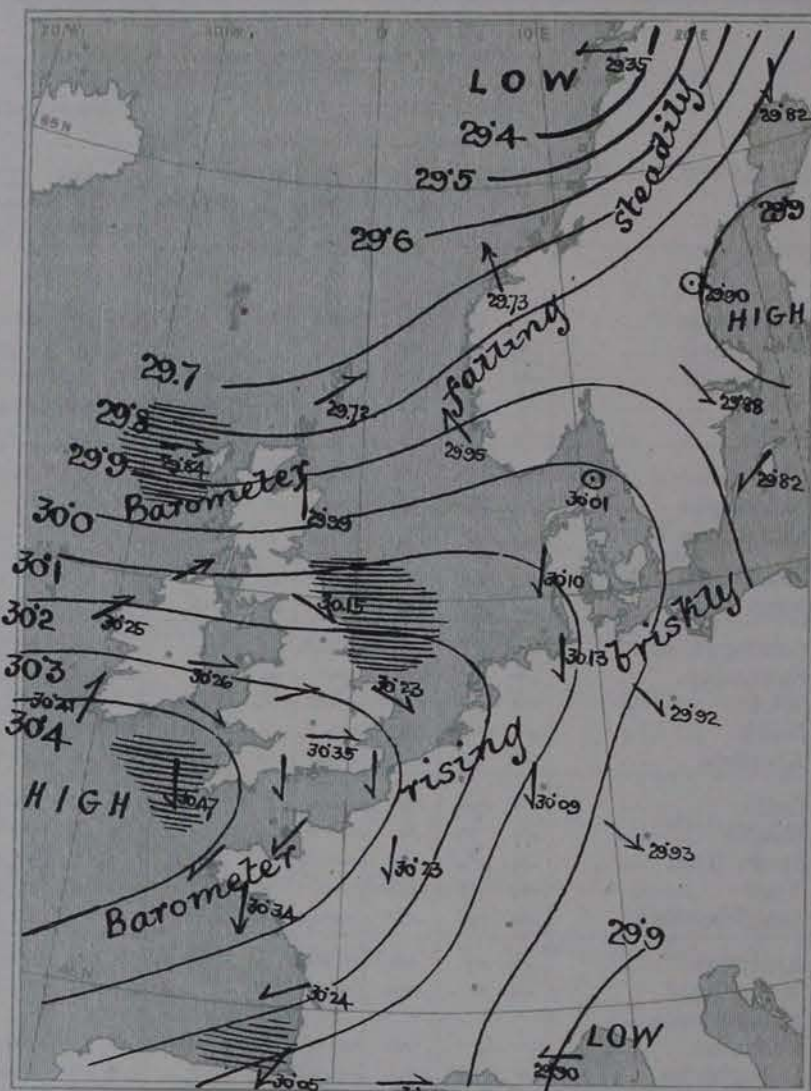
☼ = Rough. ☼ = High.

## MEAN HEIGHT OF THE BAROMETER

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

During the 20 Years 1871-1890.

STATIONS.	MEAN READINGS.
Sumburgh Head	29.683
Stornoway	29.699
Wick	29.722
Nairn	29.738
Aberdeen	29.758
Leith	29.789
Shields	29.813
Spurn Head	29.842
York	29.846
Loughborough	29.877
Ardrossan	29.791
Mullaghmore	29.780
Donaghadee	29.810
Holyhead	29.835
Liverpool	29.851
Parsonstown	29.847
Valencia	29.865
Roche's Point	29.865
Pembroke	29.864
Scilly	29.897
Prawle Point	29.914
Jersey	29.924
Hurst Castle	29.902
Dover	29.893
LONDON	29.898
Oxford	29.896
Cambridge	29.887
Yarmouth	29.865



## 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.

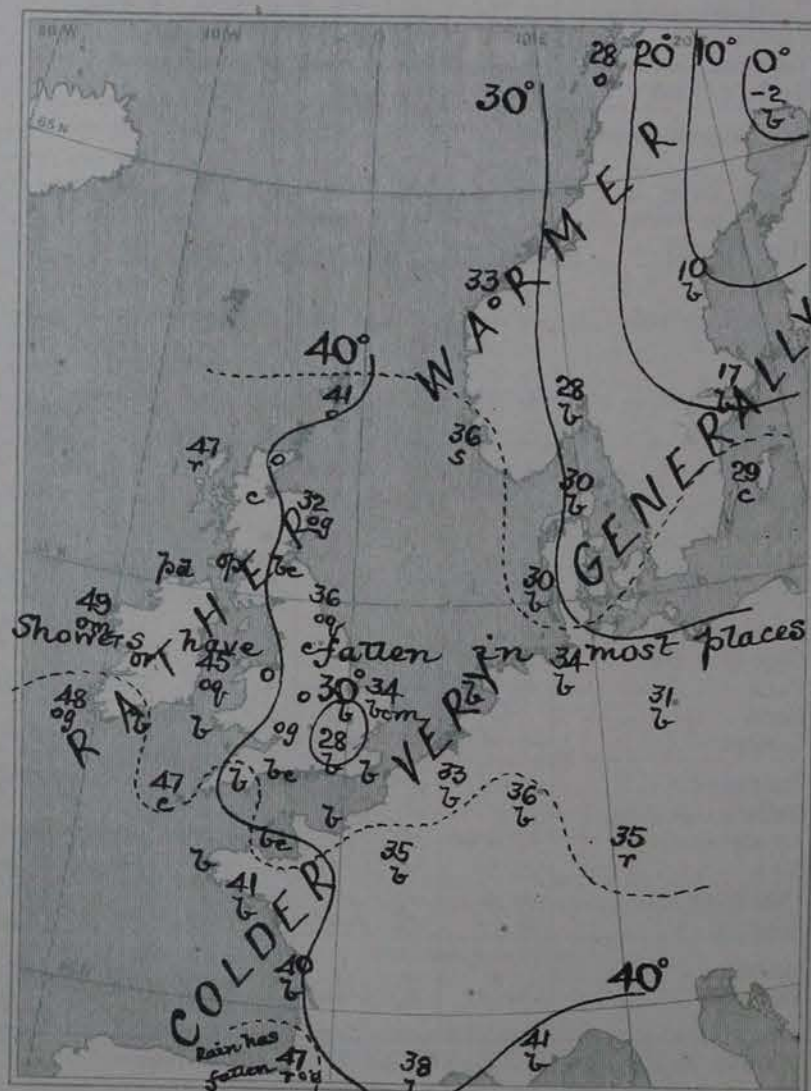
**RAINFALL**—A dotted line separates the districts in which rain has fallen from those where there has been none. Falls of 0.5 in. or more are quoted in figures.

## MEANS OF TEMPERATURE IN SHADE, AND RAINFALL.

(For the month of November.)

STATIONS.	TEMPERATURE.				RAINFALL. (Inches.)
	Daily Max.	Daily Min.	at 8 a.m.		
			Dry.	Wet.	
Sumburgh Head	45.6	37.8	42.0	40.3	4.16
Stornoway	46.2	37.0	41.7	40.7	4.79
Wick	46.1	36.1	41.4	39.8	2.93
Nairn	45.3	35.7	39.8	38.2	2.29
Aberdeen	46.2	36.5	40.5	38.7	3.14
Leith	48.1	37.0	41.7	40.0	2.20
Shields	47.3	37.9	42.1	40.5	2.61
Spurn Head	46.8	40.2	43.2	41.9	2.40
York	47.5	36.4	40.6	39.3	2.19
Loughborough	48.0	36.6	40.5	39.3	2.24
Ardrossan	47.8	39.1	43.1	41.3	3.88
Mullaghmore	49.6	41.2	45.1	43.1	4.48
Donaghadee	48.3	39.2	43.2	42.0	3.20
Holyhead	49.7	42.0	45.8	44.0	3.88
Liverpool	47.8	39.6	42.5	40.7	2.96
Parsonstown	49.1	37.1	41.9	40.2	2.83
Valencia	52.3	43.0	47.4	45.5	5.42
Roche's Point	51.1	42.0	46.1	44.5	4.62
Pembroke	50.1	43.8	45.9	45.1	4.04
Scilly	52.4	46.7	50.0	48.0	3.72
Prawle Point	51.1	41.9	46.2	44.7	3.20
Jersey	51.9	44.1	47.7	45.8	4.30
Hurst Castle	50.5	40.6	44.9	44.0	3.01
Dover	49.3	40.8	44.3	42.8	3.48
LONDON	49.3	38.0	42.2	40.8	2.23
Oxford	48.2	37.6	41.2	40.0	2.31
Cambridge	48.6	35.8	40.7	39.9	2.01
Yarmouth	47.5	39.0	43.1	42.0	3.06

NOTE.—The Temperature means are for the 20 years 1871-90, the Rainfall means are mainly those for the 25 years 1868-90.





# GENERAL SITUATION AT 8 A.M.

## PRESSURE

Highest, 30.4 in: and upwards in an anticyclone lying off our extreme southwest coasts.

Lowest, 29.4 in: and less, in a depression off the northwest of Norway.

Gradients rather steep over the north of Scandinavia, and increasing over Scotland, slight elsewhere.

Barometer falling in the north of our Islands and the west of Norway, rising in all other parts of Northern Europe.

## TEMPERATURE

Highest, (1) 49° at Bilmullet, 48° at Valencia (Ireland), and 47° at Skomway, Malin H., Pembroke, and Bally; (2) 47° at Birrity and 46° at Coleraine.

Lowest, (1) -2° Fahr: at Hafnarfjörður, +10° at Húsavík, 17° at Stockholm, and 28° at Oslo and Tander; (2) 28° in London and Cambridge.

Sharp frost occurred last night in many parts of Great Britain; in London the thermometer on the grass fell to 24°, and at Oxford to 19°.

## WIND

W<sup>1</sup> or SW<sup>1</sup> in all the more northern parts of the Kingdom; light or moderate in force generally, but strong in the Hebrides.

Light from the N<sup>1</sup> in the south of England; fresh or strong from the same quarter or from NE. in the west of France.

N<sup>1</sup> in Sweden and Denmark, and NW<sup>1</sup> in Germany, but SE<sup>1</sup> or E<sup>1</sup> in the west of Norway.

## WEATHER

Cloudy or overcast at most of our northern stations, with rain in the Hebrides, and with passing showers on our extreme northwest coasts. Fine in the south and southeast of our Islands, as well as at most of the Continental stations, but dull in the west of Norway with snow at Skudenes. Rain is falling at Munich and Birrity.

Showers fell yesterday in many parts of the United Kingdom and with snow in the north of Scotland, and with hail and sleet at the north of Ireland.

## SEA

Rather rough at Skomway, Shields, Spurn Head, and Bally, and also at Birrity, but moderate to smooth elsewhere.

## PROBABLE CHANGES IN SYSTEM NOW PREVALENT

Another depression is approaching our northern coasts from the westward or northward, and a renewal of unsettled rough weather is therefore probable over the northern parts of our Islands. Showers may possibly extend to our southern districts also.

## FORECASTS

For the 24 hours ending at NOON on 28<sup>th</sup> Nov<sup>r</sup>.

1893.

### DISTRICTS.

### FORECASTS.

0	SCOTLAND NORTH	W <sup>1</sup> to NW <sup>1</sup> winds, increasing in force; squally, some rain.
1	SCOTLAND EAST	
2	ENGLAND N.E.	W <sup>1</sup> winds, freshening considerably; fair to unsettled and some rain.
3	ENGLAND EAST	W <sup>1</sup> winds, light or moderate; fine and cold at first, then showery and milder.
4	MIDLAND COUNTIES	
5	ENGLAND SOUTH	

### DISTRICTS.

### FORECASTS.

6	SCOTLAND WEST	Same as Nos 0 and 1.
7	ENGLAND N.W.	Same as No 2.
8	ENGLAND S.W.	NW <sup>1</sup> and W <sup>1</sup> winds, moderate; fair to showery.
9	IRELAND NORTH	Same as Nos 0 and 1.
10	IRELAND SOUTH	Same as No 8.

### WARNINGS

The North Cone is still flying in districts 0 to 3, 6, 7, and 9. Signals have been lowered this morning in districts 5, 8 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.	F.	WEA.	SEA.		BAR.	THER.		WIND.	F.	WEA.	SEA.
		Dry.	Wet.	Dir.						Dry.	Wet.	Dir.			
Skudesnaes ...	29.56	36	33	WNW	4	bc	2	Valencia ...							
Sunburgh Head ...								Seilly ...							
Stornoway ...	29.99	36	36	N	4	s	4	Jersey ...	29.67	34	30	WNW	5	c fgy	4
Aberdeen ...								Hurst Castle ...							
Shields ...								Dungeness ...	29.58	43	41	WNW	5	f	4
Ardrossan ...								North Foreland ...	29.56	42	40	N	5	T	4
Malin Head ...	30.06	41	39	WNW	5	o	3	London ...							
Mullaghmore ...								Yarmouth ...							
Belmullet ...								Rochefort ...	29.80	30	49	N	4	bc	
Holyhead ...	29.93	41	36	NNE	7	bc	6								

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

Weather rainy over the central parts of England, as well as over Denmark, the Netherlands and north Germany; cloudy and unsettled in most other parts of Europe, with snow in the north of Scotland, as well as at several of the Scandinavian and Russian Stations; fine and bright over southeastern Europe as a whole, and the southern parts of the Spanish Peninsula, but rainy at Bilbao, Biarritz, and Naples. Rain falling later in many parts of the British Islands and the Netherlands; hail and snow at several of our northern and eastern Stations.

Temperature rising over France and central Europe, falling over the British Isles. Morning readings, highest, 61° at Malta, and exceeding 50° at several of the Mediterranean and Atlantic Stations, 47° at Paris, 45° in London. Lowest, 11° at Uleaborg, 9° at Archangel, 13° at Kuopio, 16° at Bodo, 18° at Hango, 27° at Moscow, 29° at Buda Pesth and Vienna, 28° at Madrid. Slightly exceeding 50° at our Channel Stations during the day, but falling decidedly over the United Kingdom at night.

Wind, SW<sup>2</sup> to W<sup>2</sup> over eastern, central, and western Europe, but N<sup>2</sup> over the greater part of our Islands, and blowing very strongly in many places. The N<sup>2</sup> wind extending to France later, but becoming moderate at the Scotch and Irish Stations.

Barometer highest 30.3 ins. and more to 30.0 ins. over the Spanish Peninsula; exceeding 30.0 ins. over the Mediterranean and southeastern Europe, and apparently off the west of Ireland also. Lowest 29.2 ins. and less in a depression over the Gulf of Finland, 29.3 ins. and less in another over the eastern and southeastern shores of the North Sea. Gradients somewhat steep over central Europe and the British Islands. Rising very quickly over the United Kingdom and neighbourhood during the day, but gradients becoming less steep.

## SUMMARY OF CHANGES IN THE WEATHER OVER THE BRITISH ISLANDS AND THEIR NEIGHBOURHOOD FROM THE 19<sup>TH</sup> TO 25<sup>TH</sup> NOV. 1893.

The weather of the past week was exceedingly changeable and unsettled, with gales in nearly all parts of western Europe, and with occasional heavy falls of rain at many of our own Stations. During the severe N<sup>2</sup> gale of the 19<sup>th</sup> snow or sleet fell in most parts of Gr. Britain.

At the beginning of the week the weather was still under the influence of the deep depression which moved down our east coasts on the 18<sup>th</sup> inst. On the 19<sup>th</sup> the disturbance was passing away to central Europe, but very steep gradients for N<sup>2</sup> winds were prevalent over our Islands, and a severe N<sup>2</sup> gale was blowing in most places. On the 20<sup>th</sup>, however, the depression travelled away southwards, and the wind moderated gradually, with improving weather.

An anticyclone now spread over our Islands from the Atlantic, the central portion of the system being found over Ireland on the 21<sup>st</sup>. On the following day, however, a large depression moved across Scandinavia in a southerly direction, and moderate to fresh N<sup>2</sup> gales were again experienced on many parts of our coasts, with showers of hail, sleet or snow in places. At the close of the week a disturbance moved eastwards across Scotland, and occasioned rain over the entire Kingdom, with strong SW<sup>2</sup> or W<sup>2</sup> winds on our west and south coasts. In its rear slight N<sup>2</sup> gales set in over Scotland and the Irish Sea, with further snow showers in the extreme north.

Temperatures has fluctuated considerably, but has been mostly low, with sharp frosts on the nights of the 19<sup>th</sup>, the 22<sup>nd</sup> and the 23<sup>rd</sup>.

## EXPLANATION OF THE 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.

N.B.—The morning observations are made at 8 a.m. in the British Islands, Germany, Sweden, and Norway, 7 a.m. in France, Spain and Portugal, and 9 a.m. in Belgium. The evening observations are made at 6 p.m. in the British Islands (as a rule), and France, 8 p.m. at Oxford, in Sweden, Norway, and Germany, and 9 p.m. in Belgium. The time at each Station is the Standard Time of its Country.

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TERMS: For Daily Weather Report, forwarded by Book Post, £1 0 0 per annum.

" Weekly " " " " £1 10 0 "



# DAILY WEATHER REPORT

for 8 a.m. on TUESDAY, 28<sup>TH</sup> NOVEMBER, 1893

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

STATIONS.		YESTERDAY EVENING. (See note at bottom of last page.)					THIS MORNING. (See note at bottom of last page.)										PAST 24 HOURS.				
		BAROM.	TEMP.	WIND.		Weather.	BAROMETER.		SHADE TEMP.			WIND.		Sea (0 to 9).	Weather.	SHADE TEMP.		Amount of Rainfall.			
				Reading at 5 <sup>30</sup> P. and Sea Level.	Dry Bulb.		Direc.	Force (0 to 12).	Reading at 5 <sup>30</sup> P. and Sea Level.	Change since Yester- day Morn.	Dry Bulb.	Wet Bulb.	Change in dry since Yesterday.			Direc.	Force (0 to 12).		Max.	Min.	
		Ina.	°				Ina.	°	°	°						°	°	ina.			
SCANDINAVIA.	Haparanda ...	29.56	22	W	2	✓	29.16	-66	19	19	+21	✓	6	✓	✓	28	-9	—			
	Hernösand ...	29.52	22	✓	4	bc	29.17	-73	26	25	+16	N	2	✓	bc	27	7	—			
	Stockholm ...	29.88	22	SW	2	0	29.30	-58	29	28	+22	W	4	✓	✓	27	12	0.16			
	Wisby ...	29.98	22	NE	6	bc	29.46	-56	29	27	+10	W	8	✓	bc	25	25	0.08			
	Bodö ...	29.91	24	✓	6	0	29.19	-16	30	28	+2	W	7	✓	0.7	24	25	—			
	Christiansund...	29.22	41	W	1	✓	29.32	-21	38	35	+5	W	4	✓	✓	41	38	0.12			
	Skudesnaes ...	29.62	46	SW	8	✓	29.67	-28	46	45	+10	W	2	✓	0.7	46	36	—			
	Christiania Fjord (Færder)	29.67	41	W	8	0	29.54	-43	45	42	+17	2	0	✓	✓	2	28	—			
	Skagen (The Scaw)	29.89	32	W	3	✓	29.58	-43	45	45	+15	W	2	✓	✓	45	27	0.04			
	Fanö ...	29.95	42	SW	6	✓	29.81	-29	46	45	+16	W	6	✓	✓	46	30	0.32			
BRITISH ISLANDS.	Sumburgh Head	29.48	48	W	5	✓	29.65	-57	46	46	+5	W	1	✓	✓	48	41	0.19			
	Stornoway ...	29.67	51	W	6	✓	29.78	-11	49	49	+3	SW	4	✓	✓	51	45	0.15			
	Wick ...	29.62	52	W	2	✓	29.72	-58	46	45	+4	W	2	✓	✓	51	38	0.20			
	Nairn ...	29.70	53	W	3	bc	29.78	-14	53	51	+12	W	1	✓	bc	53	41	0.03			
	Aberdeen ...	29.76	44	SW	2	og	29.82	-17	52	49	+20	W	2	✓	✓	52	32	0.03			
	Leith ...	29.90	47	W	4	✓	29.92	-15	52	52	+15	W	4	om	✓	52	38	0.01			
	Shields ...	30.00	49	W	5	✓	29.98	-17	52	53	+18	W	7	✓	✓	53	35	—			
	Spurn Head ...	30.18	53	SW	4	og	30.10	-14	49	48	+14	W	4	✓	og.7	49	35	0.01			
	York ...	30.14	47	W	4	✓	30.11	-12	53	51	+19	W	4	✓	✓	53	34	—			
	Loughborough	30.26	45	SW	3	✓	30.22	-59	49	47	+15	W	4	✓	✓	50	34	—			
GERMANY & HOLLAND.	Ardrossan ...	29.95	51	W	4	✓	29.95	-10	53	52	+8	W	2	✓	✓	53	45	0.10			
	Malin Head ...	29.97	50	W	6	om.7	30.00	-10	51	51	+4	SW	6	om	✓	51	47	0.03			
	Mullaghmore ...	30.15	52	SW	5	od	30.14	-11	52	52	+3	SW	5	✓	omg. od	52	48	0.03			
	Donaghadee ...	30.09	50	SW	6	✓	30.11	-59	53	53	+11	SW	5	✓	✓	53	42	0.01			
	Liverpool (Bldston)	30.20	47	W	4	✓	30.19	-57	53	50	+10	W	5	✓	✓	53	43	—			
	Holyhead ...	30.24	49	SW	4	og	30.23	-58	52	51	+7	W	2	✓	og	52	45	—			
	Parsonstown ...	30.27	49	SW	1	✓	30.26	-58	52	51	+10	SW	1	✓	og.7	52	41	0.08			
	Valencia ...	30.35	50	SW	3	omg	30.37	-54	52	52	+4	SW	3	✓	omg	52	47	0.09			
	Roche's Point	30.38	49	W	4	✓	30.36	-54	52	51	+11	W	3	✓	✓	52	41	—			
	Pembroke (St. Ann's Hd.)	30.34	49	W	5	✓	30.35	-52	52	51	+3	W	6	og	✓	52	46	0.01			
FRANCE AND BELGIUM.	Scilly ...	30.47	49	W	4	✓	30.47	0.0	52	48	+5	W	5	✓	✓	52	42	—			
	Prawle Point ...	30.44	45	W	4	✓	30.42	+57	49	47	+15	W	6	✓	bc	49	28	—			
	Jersey (St. Aubin's)	30.48	41	W	2	om	30.50	+10	51	42	+9	W	4	ogm	✓	51	37	—			
	Hurst Castle ...	30.41	46	W	2	✓	30.35	0.0	48	46	+17	W	4	om.7	✓	48	30	0.02			
	Dungeness ...	30.37	41	W	3	✓	30.31	+51	47	46	+15	W	4	✓	bc	47	31	—			
	North Foreland	30.36	39	SW	3	bc	30.28	-58	48	47	+13	W	2	✓	bc	48	35	—			
	London ...	30.36	41	W	2	✓	30.30	-55	49	48	+21	W	4	✓	bc	49	28	—			
	Oxford ...	30.38	45	SW	2	✓	30.29	-59	49	48	+18	W	3	✓	✓	49	31	—			
	Cambridge ...	30.31	42	SW	5	✓	30.23	-11	49	47	+21	SW	5	✓	✓	50	27	—			
	Yarmouth ...	30.27	39	W	4	✓	30.16	-57	48	47	+14	W	4	✓	✓	48	31	0.02			
PENINSULA.	Cuxhaven ...	30.24	43	SW	2	bc	29.93	-14	42	42	+8	W	5	✓	bc	44	34	0.08			
	Berlin ...	30.34	50	W	2	✓	30.18	+26	33	30	+2	SW	4	✓	bc	34	28	—			
	Wiesbaden ...	30.38	50	W	1	✓	30.44	+55	31	30	-5	N	2	✓	✓	43	27	—			
	Munich ...	30.38	25	W	1	✓	30.48	+53	26	25	-9	✓	3	✓	✓	36	23	0.04			
	The Helder ...	30.24	43	SW	3	✓	30.15	-58	46	45	+9	SW	5	✓	✓	46	37	0.08			
	Brussels (8 a.m.)	30.32	43	W	4	✓	30.36	+11	41	40	+8	W	6	✓	✓	42	33	—			
	Cape Gris Nez	30.32	43	W	4	✓	30.28	+58	40	48	+11	W	5	✓	✓	42	35	—			
	Paris ...	30.46	37	W	2	✓	30.37	+23	33	34	0	✓	2	✓	✓	45	30	—			
	Brest ...	30.31	43	NE	1	bc	30.36	+22	47	44	+3	W	3	✓	bc	37	38	—			
	Lorient ...	30.31	45	NE	4	✓	30.26	+22	42	41	+1	W	1	✓	✓	38	37	—			
FRANCE AND BELGIUM.	Rochefort ...	30.36	41	ENE	5	✓	30.33	+29	35	34	-5	ENE	3	✓	✓	46	34	—			
	Belfort ...	30.34	34	E	3	✓	30.23	+23	23	23	0	E	3	✓	✓	41	19	—			
	Lyons ...	30.07	44	NE	1	✓	30.29	+59	44	36	+8	E	3	✓	✓	52	39	—			
	Nice ...	30.26	48	W	2	✓	30.41	+53	42	37	+4	W	2	✓	✓	54	38	—			
	Perpignan ...	30.30	45	ENE	5	✓	30.23	+58	34	33	-13	ENE	3	✓	✓	47	32	—			
	Biarritz ...	30.30	45	ENE	5	✓	30.23	+58	34	33	-13	ENE	3	✓	✓	47	32	—			
	Corunna ...	30.19	50	W	4	✓	30.27	+12	45	41	-1	W	5	✓	✓	55	43	—			
	Lisbon ...	30.19	50	W	4	✓	30.27	+12	45	41	-1	W	5	✓	✓	55	43	—			

For Explanation of Columns, see bottom of last page.

† Received too late for insertion in Charts on next page.



# WEATHER CHARTS

for 8 a.m. on Tuesday, 28<sup>th</sup> Nov<sup>r</sup> 1893.

## 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:

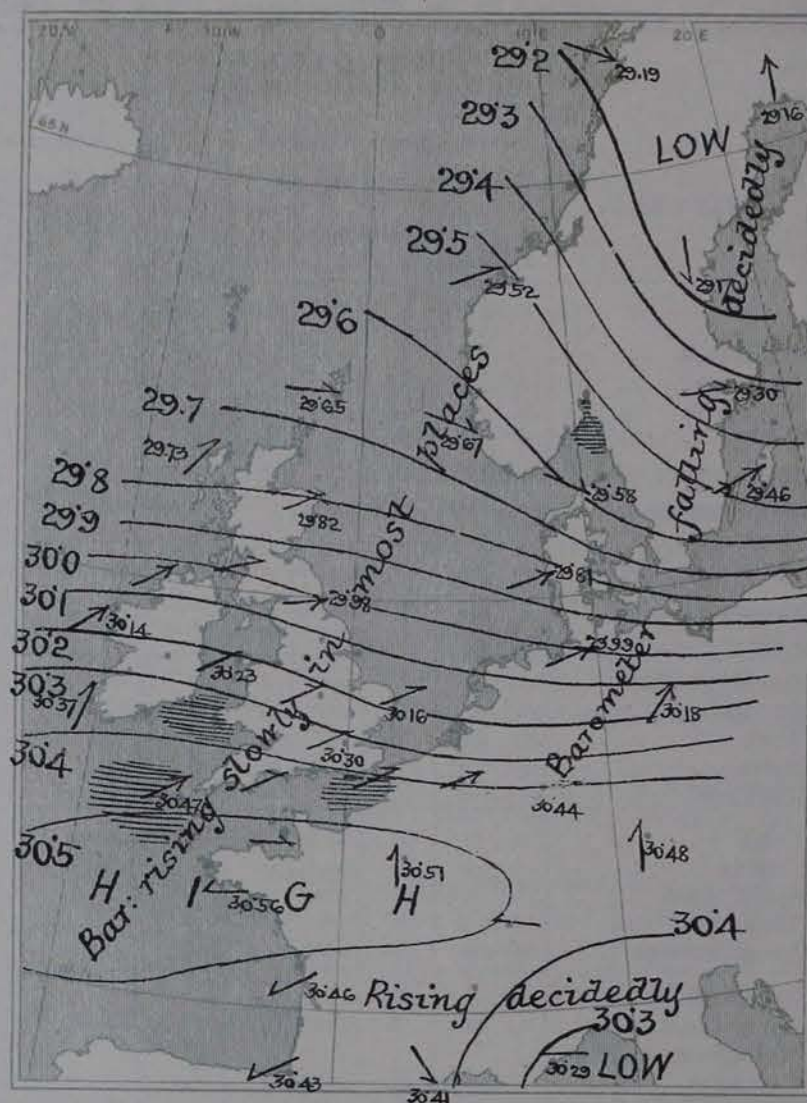
▨ = Rough. ▨ = High.

### MEAN HEIGHT OF THE BAROMETER

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

During the 29 Years 1871—1890.

STATIONS.	MEAN READINGS.
Sumburgh Head	29.683
Stornoway	29.699
Wick	29.722
Nairn	29.738
Aberdeen	29.758
Leith	29.789
Shields	29.813
Spurn Head	29.842
York	29.846
Loughborough	29.877
Ardrossan	29.791
Mullaghmore	29.780
Donaghadee	29.810
Holyhead	29.835
Liverpool	29.851
Parsonstown	29.847
Valencia	29.865
Roche's Point	29.865
Pembroke	29.864
Scilly	29.897
Prawle Point	29.914
Jersey	29.928
Hurst Castle	29.902
Dover	29.893
LONDON	29.898
Oxford	29.896
Cambridge	29.887
Yarmouth	29.865





# GENERAL SITUATION AT 8 A.M.

## PRESSURE

Highest, 30.5 ins: and more over Brittany, the mouth of the Channel and Bay of Biscay, also over Austria; and exceeding 30.1 ins: over Central and Western Europe generally and the south of our Islands.  
 Lowest, 29.2 ins: and less, over the northern half of Sweden, and below 29.7 ins: in the Netherlands.

Gradients steep for W<sup>ly</sup> winds over the Netherlands and North Germany, slightly steep, but decreasing over our Islands.

Barometer rising on our northern coasts, falling over the Baltic, apparently steady, in the west of Ireland.

## TEMPERATURE

Highest, 54° at Leith and Shields, 53° at Nairn, Donaghadee, York, and Liverpool.

Lowest, (1) 19° at Haparanda, 26° at Helsingfors; (2) 26° to 33° at the German stations; (3) 33° to 35° over Central and southern France.

It has risen rapidly over our Islands during the night, London is 21° and Aberdeen 20° warmer than at 8 am yesterday.

## WIND

W<sup>ly</sup> to SW<sup>ly</sup> over the United Kingdom - light at the Scotch stations, moderate to fresh on the coasts of England and Ireland. It is moderate to a gale from the W<sup>ly</sup> on the eastern side of the North Sea, moderate W<sup>ly</sup> in the Channel, but light E<sup>ly</sup> over the Bay of Biscay.

## WEATHER

Fine and bright over the southern half of France and the east of England, cloudy or overcast at our western and northern stations generally. Rain is falling at Stockholm, snow at several German stations.

Very little rain fell yesterday except in Scotland and Norway, where the fall was general, but not heavy. Thunder was heard at Androsam, and lightning occurred at Christiansund.

## SEA

Rough on some parts of our southwestern coasts, slight or moderate in most other places, smooth in the northeast.

## PROBABLE CHANGES IN SYSTEM NOW PREVALENT

There are no indications of immediate change, but conditions are not at all of a settled type.

# FORECASTS

For the 24 hours ending at NOON on 29<sup>TH</sup> Nov<sup>R</sup> 1893.

## DISTRICTS.

## FORECASTS.

0 SCOTLAND  
NORTH

SW<sup>ly</sup> winds, strong; showery.

1 SCOTLAND  
EAST

W<sup>ly</sup> and SW<sup>ly</sup> winds, moderate;  
fair, mild.

2 ENGLAND  
N.E.

3 ENGLAND  
EAST

4 MIDLAND  
COUNTIES

5 ENGLAND  
SOUTH

SW<sup>ly</sup> breezes, moderate; fair as  
a whole. Very mild.

## DISTRICTS.

## FORECASTS.

6 SCOTLAND  
WEST

Same as N° 0.

7 ENGLAND  
N.W.

8 ENGLAND  
S.W.

9 IRELAND  
NORTH

10 IRELAND  
SOUTH

SW<sup>ly</sup> breezes, fresh or strong;  
showery, very mild.

## 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. Direc.	P.	WEA.	SEA.		BAR.	THER.		WIND. Direc.	P.	WEA.	SEA.
		Dry.	Wet.							Dry.	Wet.				
Skudesnaes ...	29.84	42	39	SW	7	0	4	Valencia ...	30.41	50	50	SW	4	mg	4
Sumburgh Head ...	29.54	47	47	W	5	7	4	Scilly ...	30.48	50	48	W	4	c	4
Stornoway ...	29.74	48	48	SW	6	7	6	Jersey ...	30.46	47	41	SW	3	b	3
Aberdeen ...	29.24	39	37	SW	3	cm	4	Hurst Castle ...	30.41	45	42	W	2	b	2
Shields ...	30.07	46	44	W	0	0	4	Dungeness ...	30.38	46	42	WNW	2	b	2
Ardrossan ...	30.03	50	49	WNW	4	sf	3	North Foreland ...	30.34	40	37	WN	2	mg	2
Malin Head ...	30.02	50	50	WNW	6	0	4	London ...	30.36	41	37	W	3	b	*
Mullaghmore ...								Yarmouth ...	30.27	38	36	WNW	3	c	4
Belmullet ...	30.19	51	50	SW	4	mg	*	Rochefort ...	30.33	46	43	ENE	5	c	*
Holyhead ...	30.26	48	46	W	4	sf	4								

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

Weather in morning fine and bright over Germany, France, and the south and east of England also over Denmark and Sweden; cloudy or overcast elsewhere, showery in Ireland and Scotland. Snow falling at Skudesnaes and in several parts of Russia; fog very prevalent over Austria-Hungary and at Kiev. Some rain falling generally at our northern stations and on the eastern shores of the North Sea, lightning occurring at Christiansund, thunder at Ardrossan.

Temperature fallen fast over England. Morning readings exceeding 50° at some of the Mediterranean stations, at Genoa and at Constantinople, and exceeding 40° on the western coast of France and the British Isles, much lower elsewhere. Lowest, -2° F. at Haparanda, +9° at Archangel, 10° at Hermand, 15° at St. Petersburg, 17° at Stockholm; (2) 23° at Vienna, 30° at Hermannstadt; (3) 28° at Cambridge and in London, 31° at Oxford and Huntly, 32° at Dungeness. Rising quickly over the British Islands later - frost disappearing entirely from England.

Wind (1) SW and N over Ireland and the northern part of Great Britain, SE and E in Norway; (2) calm over Sweden and Denmark, N over North Germany and the Netherlands, NE over France and Spain; NW to W over Austria, SW in the south of Russia. Force light to fresh in most countries. Blowing strongly from W. on our northwestern coasts later as well as in the southwest of Norway.

Barometer highest 30.4 in. and more to 30.2 in. in an anticyclone spreading in from the Atlantic over Ireland, England, France, and Spain. Lowest, 29.4 in. and less, in a depression off the northwest of Norway; 29.5 in. and less, in another over the northeast of Russia, and in a secondary over Poland; below 29.7 in. off the north of Scotland, and below 29.9 in. on Corsica. Falling decidedly over Scotland and Scandinavia later. Rising over France; anticyclone spreading southwards.

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

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

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N.B.—The morning observations are made at 8 a.m. in the British Islands, Germany, Sweden, and Norway, 7 a.m. in France, Spain and Portugal, and 9 a.m. in Belgium. The evening observations are made at 6 p.m. in the British Islands (as a rule), and France, 8 p.m. at Oxford, in Sweden, Norway, and Germany, and 9 p.m. in Belgium. The time at each Station is the Standard Time of its Country.

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„ Weekly „ „ „ £1 10 0 „



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for 8 a.m. on WEDNESDAY. 29TH NOV 1893

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

STATIONS.		YESTERDAY EVENING. (See note at bottom of last page.)					THIS MORNING. (See note at bottom of last page.)										PAST 24 HOURS.				
		BAROM.	TEMP.	WIND.		Weather.	BAROMETER.		SHADE TEMP.			WIND.		Weather.	Sea (0 to 9).	Weather.	SHADE TEMP.		Amount of Rainfall.		
				Reading at 32° F. and Sea Level.	Dry Bulb.		Direc.	Force (0 to 12).	Reading at 32° F. and Sea Level.	Change since Yester- day Morn.	Dry Bulb.	Wet Bulb.	Change in dry since Yesterday.				Direc.	Force (0 to 12).		Max.	Min.
		Inch.	°				Inch.	°	°	°							°	°	Inch.		
SCANDINAVIA.	Haparanda ...	29.24	11	2	0	b	29.26	+10	44	49	+30	SE	4	0	*	b	49	10	0.04		
	Hernösand ...	29.62	28	2	0	0	29.11	-06	33	32	1	2	0	0	*	0	33	28	0.05		
	Stockholm ...	29.70	31	2	0	b	29.24	-06	41	40	1	W	4	bc	*	b	41	19	0.04		
	Wisby ...	29.77	35	2	6	b	29.32	-07	43	41	2	W	6	0	*	b	43	28	0.12		
	Bodö ...	29.23	27	2	2	s	29.26	+07	30	27	3	W	4	0	2	s	30	25	—		
	Christiansund...	29.33	40	2	0	0	29.33	-13	37	36	-1	SW	2	7	4	0	40	34	0.63		
	Skudesnaes ...	29.36	30	2	0	7	29.63	-04	45	43	-1	W	2	7	5	0.7	30	43	—		
	Christiania Fjord (Færdar)	29.61	44	2	0	0	29.49	-05	40	45	+3	W	4	b	4	0	44	44	—		
	Skagen (The Seaw)	29.67	44	2	7	7	29.60	+02	46	46	+1	W	3	bc	1	7	44	41	0.08		
	Fanö ...	29.29	47	2	0	0	29.31	+10	47	47	+1	W	6	0	*	0	47	46	0.04		
BRITISH ISLANDS.	Sumburgh Head	29.37	30	2	4	7	29.43	-22	41	41	-5	S	1	7	4	7	37	40	0.40		
	Stornoway ...	29.61	33	2	8	7	29.42	-31	32	32	0	SW	8	7	6	7	33	46	1.12		
	Wick ...	29.38	30	2	4	0	29.43	-29	33	32	1	SW	4	0	2	0	33	40	0.65		
	Nairn ...	29.67	33	2	2	c	29.48	-30	34	31	3	SW	2	b	1	c	33	37	0.04		
	Aberdeen ...	29.73	34	2	5	bc	29.60	-22	31	27	-1	SW	6	bc	4	bc	34	37	—		
	Leith ...	29.91	32	2	4	7	29.78	-14	33	43	-1	W	4	0	*	7	36	37	—		
	Shields ...	30.02	37	2	5	0	29.92	-06	32	43	-2	W	5	c	3	0	37	38	—		
	Spurn Head ...	30.14	30	2	2	bc	30.09	-01	47	45	-2	SW	4	c	3	c	32	46	—		
	York ...	30.16	3	2	5	c	30.09	-02	51	48	-2	W	4	0	*	c	34	30	—		
	Loughborough	30.26	37	2	1	bc	30.21	-01	49	46	0	W	4	c	*	bc	38	48	—		
GERMANY & HOLLAND.	Ardrossan ...	29.58	34	2	5	bc	29.83	-16	32	30	-1	W	7	0	5	c	34	37	—		
	Malin Head ...	29.36	37	2	6	0	29.77	-23	31	30	0	SW	7	om	5	0	32	30	—		
	Mullaghmore ...	30.11	32	2	6	om	29.89	-25	32	30	0	SW	7	om	*	om	33	30	0.05		
	Belmullet ...	30.10	34	2	4	c	29.97	-14	32	30	-1	SW	6	c	4	c	36	37	—		
	Donaghadee ...	30.23	32	2	0	0	30.13	-06	30	46	-3	SW	5	bc	4	0	36	48	—		
	Liverpool (Bldston)	30.24	32	2	0	0	30.13	-10	30	49	-2	SW	5	bc	4	c	33	30	0.03		
	Holyhead ...	30.22	32	2	0	0	30.10	-16	37	47	-1	S	3	0	3	0	33	47	—		
	Parsonstown ...	30.22	32	2	0	om	30.16	-21	32	49	0	S	5	0	3	om	33	37	0.01		
	Valencia ...	30.34	37	2	4	c	30.18	-10	31	49	-1	W	4	c	4	c	33	30	—		
	Roche's Point	30.34	37	2	4	c	30.18	-10	31	49	-1	W	4	c	4	c	33	30	—		
FRANCE AND BELGIUM.	Pembroke (St. Ann's Hd.)	30.23	37	2	0	0	30.26	-09	31	49	-1	W	5	0	6	0	32	49	—		
	Scilly ...	30.45	30	2	0	c	30.35	-12	30	48	-2	SW	5	c	5	c	33	46	—		
	Præstø Point ...	30.45	30	2	0	0	30.31	-04	40	46	-1	SW	4	0	3	0	33	46	—		
	Jersey (St. Aubin's)	30.50	37	2	0	om	30.48	-05	40	46	-3	W	3	c	3	om	33	47	—		
	Hurst Castle ...	30.41	49	2	4	0	30.37	-02	40	46	0	W	4	c	2	om	49	46	0.02		
	Dungeness ...	30.32	48	2	4	0	30.33	+02	40	46	+1	W	4	0	3	0	49	46	—		
	North Foreland	30.32	37	2	2	c	30.31	+03	47	45	-1	W	2	bc	2	c	37	43	—		
	London ...	30.38	32	2	4	0	30.33	+03	40	45	-1	W	3	0	*	c	33	47	—		
	Oxford ...	30.37	30	2	1	0	30.29	0	40	46	0	SW	3	0	*	0	34	49	—		
	Cambridge ...	30.29	48	2	1	b	30.25	+02	49	47	0	SW	7	0	*	b	38	47	—		
PENINSULAR.	Yarmouth ...	30.27	37	2	5	bc	30.20	+04	40	46	0	W	5	bc	3	bc	34	46	—		
	Cuxhaven ...	30.07	46	2	6	f	30.10	+11	40	48	+6	W	6	f	*	f	40	42	0.04		
	Berlin ...	30.14	48	2	2	7	30.14	-04	49	40	+16	W	4	0	*	7	49	33	0.28		
	Wiesbaden ...	30.50	35	2	0	0	30.45	+01	41	33	+10	W	1	0	*	*	41	31	0.12		
	Munich ...	30.50	35	2	0	0	30.51	+03	37	33	+11	SW	4	c	3	0	37	28	0.48		
	The Helder ...	30.24	48	2	4	b	30.24	+09	40	47	+2	SW	5	0	3	b	40	46	—		
	Brussels (St. Pierre)	*	*	*	*	*	30.37	+03	47	46	+6	SW	5	0	*	0.7	40	39	—		
	Cape Gris Nez	*	*	*	*	*	30.40	-02	42	42	0	SW	2	0	*	0	4	35	—		
	Paris ...	30.53	43	2	0	0	30.49	-02	42	46	+2	SW	3	c	3	0	30	43	—		
	Brest ...	30.10	49	2	0	c	30.48	-11	46	43	+4	SE	2	0	2	c	34	39	—		
PENINSULAR.	Lorient ...	30.35	41	2	1	b	30.38	-15	37	36	+2	E	3	b	*	c	35	32	—		
	Rochefort ...	30.35	37	2	1	0	30.35	-15	37	36	+2	E	3	b	*	c	35	32	—		
	Belfort ...	30.61	30	2	1	b	30.58	+02	44	44	-6	NE	1	f	*	b	38	24	—		
	Lyons ...	30.42	46	2	1	b	30.43	+14	41	36	-5	E	2	f	*	b	37	23	—		
	Nice ...	30.49	40	2	2	b	30.49	+06	37	30	-11	W	2	b	*	b	32	30	—		
	Perpignan ...	30.48	39	2	2	b	30.41	-02	37	29	-3	E	3	b	*	b	35	24	—		
	Biarritz ...	30.48	39	2	2	b	30.41	-02	37	29	-3	E	3	b	*	b	35	24	—		
	Corunna ...	30.27	30	2	5	b	30.26	-01	40	41	0	W	4	b	*	b	37	40	—		
	Lisbon ...	30.27	30	2	5	b	30.26	-01	40	41	0	W	4	b	*	b	37	40	—		

For Explanation of Columns, see bottom of last page.

† Received too late for insertion in Charts on next page.



# WEATHER CHARTS

for 8 a.m. on Wednesday 29<sup>th</sup> Nov: 1893.

## 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:

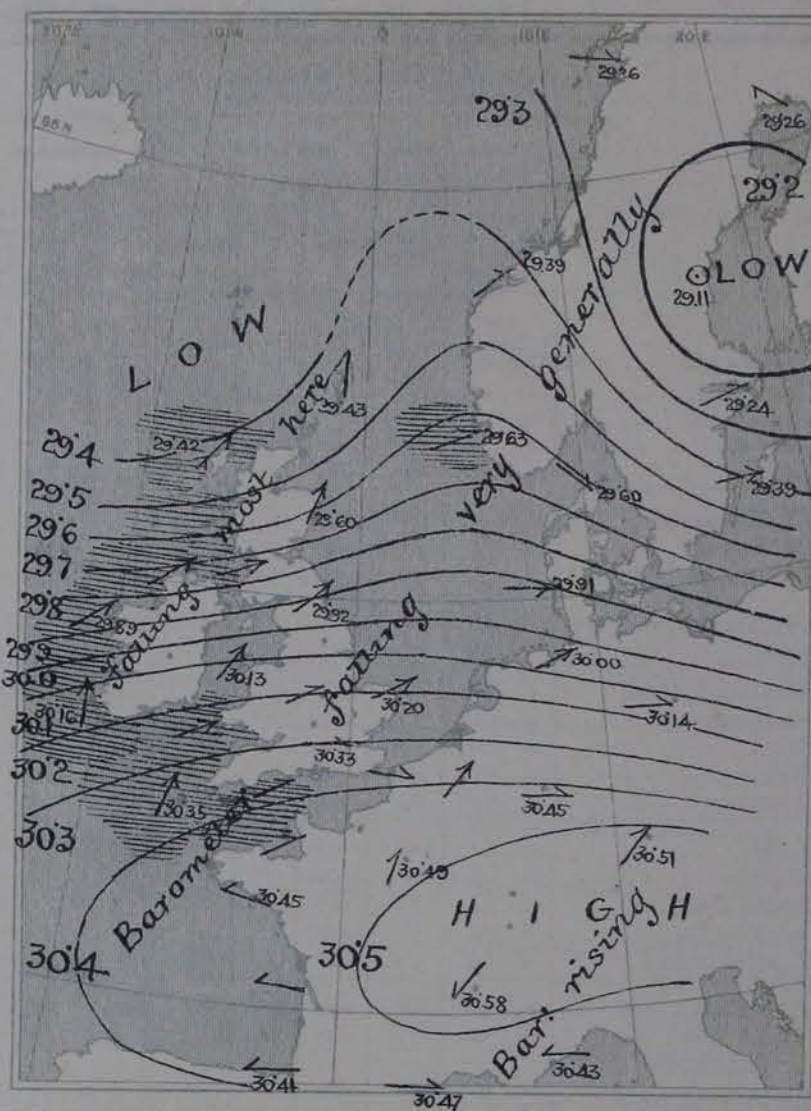
≡ = Rough. ≡ = High.

## MEAN HEIGHT OF THE BAROMETER

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

During the 20 Years 1871-1890.

STATIONS.	MEAN READINGS.
Sumburgh Head	29.683
Stornoway	29.699
Wick	29.722
Nairn	29.738
Aberdeen	29.768
Leith	29.789
Shields	29.813
Spurn Head	29.842
York	29.846
Loughborough	29.877
Ardrossan	29.791
Mullaghmore	29.780
Donaghadee	29.819
Holyhead	29.835
Liverpool	29.851
Parsonstown	29.847
Valencia	29.855
Roche's Point	29.865
Pembroke	29.864
Seilly	29.897
Prawle Point	29.914
Jersey	29.928
Hurst Castle	29.962
Dover	29.893
LONDON	29.898
Oxford	29.896
Cambridge	29.887
Yarmouth	29.865



## 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.

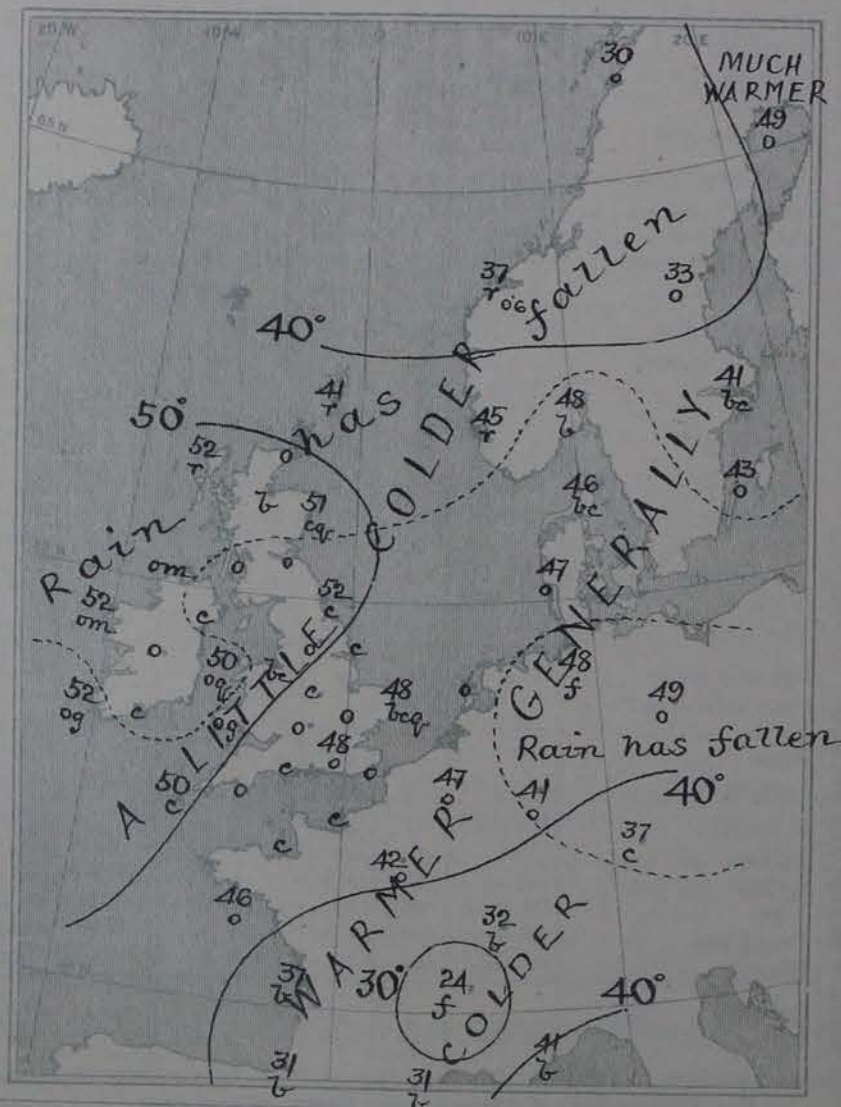
**RAINFALL**—A dotted line separates the districts in which rain has fallen from those where there has been none. Falls of 0.5 in. or more are quoted in figures.

## MEANS OF TEMPERATURE IN SHADE, AND RAINFALL

(For the month of November.)

STATIONS.	TEMPERATURE.				RAINFALL (Inches.)
	Daily Max.	Daily Min.	at 8 a.m.		
			Dry.	Wet.	
Sumburgh Head	45.6	37.8	42.0	40.3	4.16
Stornoway	46.2	37.0	41.7	40.7	4.70
Wick	46.1	36.1	41.4	39.8	2.03
Nairn	45.3	35.7	39.8	38.2	2.29
Aberdeen	46.2	36.5	40.5	38.7	3.14
Leith	48.1	37.0	41.5	40.0	2.20
Shields	47.3	37.9	42.1	40.5	2.01
Spurn Head	40.8	40.2	43.2	41.9	2.46
York	47.5	36.4	40.6	39.3	2.19
Loughborough	48.0	36.6	40.5	39.3	2.24
Ardrossan	47.8	39.1	43.1	41.3	3.88
Mullaghmore	49.6	41.2	45.1	43.1	4.48
Donaghadee	48.3	39.2	43.2	42.0	3.20
Holyhead	49.7	42.9	45.8	44.0	3.88
Liverpool	47.8	39.6	42.5	40.7	2.96
Parsonstown	49.1	37.1	41.0	40.2	2.83
Valencia	52.3	45.0	47.4	45.5	5.42
Roche's Point	51.1	42.0	46.1	44.5	4.62
Pembroke	50.1	43.8	46.9	45.1	4.04
Seilly	52.4	46.7	50.0	48.0	3.72
Prawle Point	51.1	41.9	46.2	44.7	3.20
Jersey	51.9	44.1	47.7	45.8	4.30
Hurst Castle	50.5	40.6	44.9	44.0	3.01
Dover	49.3	40.6	44.3	42.8	3.48
LONDON	49.3	38.0	42.2	40.8	2.23
Oxford	48.2	37.6	41.2	40.0	2.31
Cambridge	48.6	35.8	40.7	39.0	2.01
Yarmouth	47.5	39.0	43.1	42.0	3.06

NOTE.—The Temperature means are for the 20 years 1871-90, the Rainfall means are mainly those for the 25 years 1868-90.





## GENERAL SITUATION AT 8 A.M.

## PRESSURE

Highest, 30.5 ins: and more to 30.3 ins: in an anticyclone covering France, the Bay of Biscay, and the southern parts of our Islands.  
Lowest, 29.2 ins: and less, in a depression over Sweden and the Gulf of Bothnia, and apparently below 29 ins: in another off the north of Scotland.  
Gradients somewhat steep, but irregular over our Islands and their neighbourhood, as well as over the Baltic.  
Barometer falling generally - decidedly in the west and north.

## TEMPERATURE

Highest,  $54^{\circ}$  at Kani,  $53^{\circ}$  at Leith and Wick,  $52^{\circ}$  at several other of our western and northern stations.

Locality, (1)  $30^\circ$  at Bodo,  $33^\circ$  at Hornösand; (2)  $24^\circ$  at Lyons,  $37^\circ$  at Munich.

The maxima recorded yesterday exceeded  $50^{\circ}$  at almost all our own stations, and were as high as  $55^{\circ}$  to  $58^{\circ}$  over the eastern and northern parts of Great Britain.

## WIND

S<sup>E</sup> to W<sup>S</sup> over our Islands, and blowing strongly at several northern stations — a gale at Linnahay;  
W<sup>S</sup>, fresh to strong over the North Sea and Baltic; W<sup>N</sup>, moderate in the Channel; E<sup>S</sup>, light, over the Bay of Biscay.

## WEATHER

fine and bright over the Peninsula and the south and southwest of France; cloudy or overcast elsewhere - fair in the east and southeast of England, unsettled and gloomy at our western stations, rainy at Lumburgh H<sup>ts</sup> and Lomoway. A great deal of rain has fallen in the Hebrides, Shetlands, Caithness, and the west of Norway, smaller quantities in Germany, none at the French or the majority of the English stations.

## SEA

Rough on our extreme southwest coasts and in the Minch, rather rough on our northwest coasts, smooth at present in the southeast.

### PROBABLE CHANGES IN SYSTEM NOW PREVALENT

The anticyclone is moving steadily to the southeastwards, depressions of considerable size are encroaching in the northwest, and threaten our extreme western, northwestern, and northern coasts with gales. These coasts have been warned. Unsettled weather is probable generally.

## FORECASTS

For the 24 hours ending at NOON on 30<sup>th</sup> November, 1893.

DISTRICTS.		FORECASTS.	DISTRICTS.		FORECASTS.
† 0	SCOTLAND NORTH	} $SW^{\frac{3}{4}}$ gales and strong winds; squally, rainy.	† 6	SCOTLAND WEST	} Same as N <sup>o</sup> 0 and 1.
† 1	SCOTLAND EAST		† 7	ENGLAND N.W.	
2	ENGLAND N.E.	} $SW^{\frac{1}{4}}$ winds, increasing; fair to showery and unsettled.	8	ENGLAND S.W.	} Same as N <sup>o</sup> 5.
3	ENGLAND EAST		† 9	IRELAND NORTH	
4	MIDLAND COUNTIES		† 10	IRELAND SOUTH	} $S^{\frac{1}{2}}$ and $SW^{\frac{3}{4}}$ gales, strong in places; rainy, unsettled.
5	ENGLAND SOUTH	WARNINGS		At 10.15 am to districts 0, 1, 6, 7, 9, and 10. "Hoist South Cone".	



# YESTERDAY'S 2 P.M. REPORTS.

	BAR.	THER.		WIND.	F.	WEA.	SEA.		BAR.	THER.		WIND.	F.	WEA.	SEA.
		Dry.	Wet.	Dirac.						Dry.	Wet.	Dirac.			
Skudesnaes ...	29.75	47	45	W. 12	2	0	3	Valencia ...	30.53	53	52	SW 12	4	mg	4
Sumburgh Head ...	29.52	44	44	W 8	1	7	4	Scilly ...	30.45	53	49	W 12	5	C	4
Stormoway ...	29.64	51	52	W 12	7	7	6	Jersey ...	30.43	53	50	W 12	4	mg	4
Aberdeen ...	29.74	53	50	SW 12	4	6	2	Hurst Castle ...	30.39	49	48	W 12	4	mg	4
Shields ...	29.99	56	54	SW 12	6	0	4	Dungeness ...	30.36	48	47	W 12	4	mg	4
Ardrossan ...	29.99	54	53	SW 12	3	0	3	North Foreland ...	30.25	53	51	W 12	2	C	2
Malin Head ...	29.78	52	51	SW 12	6	0	4	London (Victoria) ...	30.30	54	52	SW 12	3	mg	3
Mullaghmore ...								Yarmouth ...	30.18	54	52	W 12	5	C	3
Belmullet ...	30.12	53	52	SW 12	6	mg	*	Rochefort ...	30.52	53	53	E 1	1	C	*
Holyhead ...	30.23	52	52	SW 12	4	C	3								

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

Weather this morning fine and bright over Southern Europe, very changeable and unsettled in the northwest and north; clouds heavy in the west of our Islands and in Norway, rain and snow falling over the Baltic and Finland. Considerable rain falling later in Norway, the Feroes, Hebrides, smaller quantities in Germany, and at a very few of the English and Irish stations.

Temperatures risen rapidly over Great Britain, Sweden, and Denmark, and to a less extent in other parts of northwestern and northern Europe, fallen elsewhere. Morning readings highest (1) 62° at Malta, 57° at Liffey, and 53° at Genoa and Algiers; (2) 54° at Seville and Shields, and 53° at Havre, York, Donaghadee, and Liverpool; above 50° in all the more western and northern parts of the United Kingdom. Rising during day to 55° or more at several of our northern and central stations, and reaching 58° at Shields, Loughboro, and Cambridge. Daily maxima below 50° at many of the French stations.

Wind W<sup>1</sup> or SW<sup>1</sup> over our Islands, the North Sea, Denmark, Germany, and the Baltic; strong in force in many places, with a gale at Wexford, strong to a gale from the S<sup>1</sup> over Finland and Lapland; light anticyclonic winds reported over France, the Bay of Biscay and Central Europe, and E<sup>1</sup> to N<sup>1</sup> breezes over southern Europe and the Mediterranean. Increasing in force from the SW<sup>1</sup> over the northwestern parts of the British Islands.

Barometer highest 30.5 ins. and more to 30.2 ins. in an anticyclone stretching in from the Atlantic over Spain, France, and the southern part of the British Isles to Central and southeastern Europe. Lowest 29.1 ins. here, in a depression over Lapland, and below 29.4 ins. in a long "V" stretching thence in a southerly direction over the Gulf of Bothnia to the Baltic; 30.1 ins. and less in the extreme south of Spain, 30.13 ins. at Malta. Rising a little over France during the day, falling decidedly in Norway and Scotland, as a new depression advanced towards Scandinavia from the westward.

### EXPLANATION OF THE 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.  
N.B.—The morning observations are made at 8 a.m. in the British Islands, Germany, Sweden, and Norway, 7 a.m. in France, Spain and Portugal, and 9 a.m. in Belgium. The evening observations are made at 6 p.m. in the British Islands (as a rule), and France, 8 p.m. at Oxford, in Sweden, Norway, and Germany, and 9 p.m. in Belgium. The time at each Station is the Standard Time of its Country.

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# DAILY WEATHER REPORT

for 8 a.m. on THURSDAY 30TH NOVEMBER 1893

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

STATIONS.		YESTERDAY EVENING. (See note at bottom of last page.)						THIS MORNING. (See note at bottom of last page.)										PAST 24 HOURS.			
		BAROM.		TEMP.		WIND.		BAROMETER.		SHADE TEMP.			WIND.		Sea (0 to 9).	SHADE TEMP.					
		Reading at 32° F. and Sea Level.	Dry Bulb.	Dir.	Force (0 to 12).	Weather.	Reading at 32° F. and Sea Level.	Change since Yester- day Morn.	Dry Bulb.	Wet Bulb.	Change in dry since Yesterday.	Dir.	Force (0 to 12).	Weather.		Weather.	Max.	Min.	Amount of Rainfall.		
		Ina.	°				Ina.												Ina.		
SCANDINAVIA.	Haparanda ...	29.56	15	2	0	0	29.01	-25	23	23	+26	SWW	4	2	4	0	25	-3	0.12		
	Hernösand ...	29.53	22	2	0	0	29.07	-24	32	30	-1	S	2	2	4	0	24	18	0.28		
	Stockholm ...	29.43	37	2	0	0	29.22	-22	47	45	+6	W	4	0	4	0	47	27	0.04		
	Wisby ...	29.52	45	NW	6	0	29.43	+04	40	43	+2	WNW	8	2	4	0	46	34	0.04		
	Bodö ...	29.86	34	SE	4	0	29.11	-15	22	20	-2	NNW	6	0	4	0.7	24	18	—		
	Christiansund...	29.01	40	WN	4	T	29.29	-10	33	31	-4	NNE	4	0	4	T	41	32	0.28		
	Skudesnaes ...	29.52	50	WNW	9	0	29.41	-22	45	41	0	W	6	0	5	0.7	38	43	—		
	Christiania Fjord (Færder)	29.52	45	SWW	1	0	29.54	-15	46	44	-2	WNW	5	0	5	0	48	40	—		
	Skagen (The Scaw)	29.51	48	WNW	5	m	29.47	-13	46	4	0	WNW	8	m	1	m	48	45	—		
	Fanö ...	29.81	47	WNW	7	0	29.73	-18	46	45	-1	WNW	6	T	4	0	48	46	—		
ISLANDS	Sumburgh Head	29.18	44	WNW	2	0	29.35	-28	35	35	-6	NE	1	0	4	T.O	49	34	0.17		
	Stornoway ...	29.36	46	W	4	T	29.52	+10	37	36	-15	NW	5	2	5	T	53	35	0.68		
	Wick ...	29.31	44	NW	6	0	29.49	+06	36	35	-1	NW	4	C	2	0	55	34	0.15		
	Nairn ...	29.29	50	WNW	2	bc	29.61	+13	37	34	-15	WNW	2	0	1	bc	53	34	0.15		
	Aberdeen ...	29.48	51	SWW	4	cq	29.61	+01	38	36	-13	W	2	C	2	cq	36	38	—		
	Leith ...	29.57	51	SW	5	0	29.63	-13	44	41	-9	WNW	4	bc	4	0	53	43	0.02		
	Shields ...	29.75	51	SW	5	C	29.73	-19	46	44	-6	SW	2	0	2	C.T	52	38	0.04		
	Spurn Head ...	29.94	49	SW	5	C	29.78	-31	46	44	-1	SW	3	C	3	C	53	48	—		
	York ...	29.94	51	WNW	5	0	29.77	-32	46	45	-5	SW	1	C	4	0	53	48	—		
	Loughborough	30.07	50	SW	4	0	29.88	-33	46	44	-3	SWW	2	C	4	0	52	45	—		
BRITISH	Ardrossan ...	29.66	51	WNW	5	of	29.73	-10	44	40	-8	W	4	0	3	0.0f	52	43	0.08		
	Malin Head ...	29.59	51	SW	7	omr	29.76	-01	43	39	-8	NW	5	0	3	0.0mr	52	43	0.09		
	Mullaghmore ...	29.74	52	SW	8	od	29.85	-04	45	42	-7	N	2	0	4	om.od	53	42	0.10		
	Donaghadee ...	29.79	52	SW	6	bc	29.78	-19	44	43	-8	WNW	2	0	2	bc	52	44	0.04		
	Liverpool (Bldston)	29.99	51	SW	5	0	29.79	-34	49	47	-1	WNW	2	0	2	0	52	47	—		
	Holyhead ...	29.97	51	SW	5	0g	29.79	-34	46	46	-4	WNW	1	dmg	2	0g.cq.og	51	48	0.22		
	Parsonstown ...	29.83	51	SW	2	0	29.85	-25	42	41	-9	2	0	0	0	0.07	52	41	0.19		
	Valencia ...	29.98	52	S	5	om	29.90	-26	43	44	-7	NE	5	omg	4	rg.ong	52	44	0.17		
	Roche's Point	30.05	51	WNW	4	0	29.82	-36	50	50	-1	WNW	4	rm	4	0	52	50	—		
	Pembroke (St. Ann's Hd.)	30.07	51	WNW	4	C	29.85	-41	51	50	0	SW	5	og	37	C	51	50	—		
GERMANY & HOLLAND	Scilly ...	30.17	51	SWW	4	0	29.94	-41	50	48	0	SWW	4	0	4	0	51	46	0.22		
	Prawle Point ...	30.21	48	WNW	2	0	29.96	-42	47	47	-1	WNW	4	og	3	0.0	49	46	0.13		
	Jersey (St. Aubin's)	30.28	49	SW	2	0g	30.02	-43	48	45	0	SW	2	og	2	C.0g	50	45	—		
	Hurst Castle ...	30.22	48	WNW	2	0	29.96	-41	47	46	-1	WNW	2	0	2	C.0.T	49	46	0.10		
	Dungeness ...	30.21	48	W	4	0	29.96	-37	46	46	-2	WNW	2	ofd	3	0	49	46	0.01		
	North Foreland	30.19	48	W	4	0	29.96	-35	46	45	-1	SW	2	ogmg	2	0	49	42	0.01		
	London ...	30.18	49	WNW	5	0	29.95	-38	46	45	-2	S	2	C	4	og.od.c	49	44	—		
	Oxford ...	30.13	48	SW	3	0	29.93	-36	46	45	-3	SW	2	og	4	0g	49	48	—		
	Cambridge ...	30.12	48	SWW	7	0	29.91	-34	46	44	-3	S	4	C	4	0	51	44	—		
	Yarmouth ...	30.09	47	WNW	6	cq	29.90	-30	46	45	-2	SW	2	0	3	cq	49	44	—		
FRANCE AND BELGIUM.	Cuxhaven ...	30.06	45	WNW	5	f	29.94	-16	45	44	-3	SW	2	C	4	f	49	44	—		
	Berlin ...	30.14	48	W	3	0	30.04	-10	43	42	-6	W	2	0	4	0	50	43	—		
	Wiesbaden ...	30.11	48	W	2	0	30.11	-34	39	39	-2	2	0	0	4	0	43	39	—		
	Munich ...	30.11	48	W	2	0	30.11	-40	37	37	-6	E	2	f	4	0	43	38	—		
	The Helder ...	30.12	47	SW	6	C	29.97	-27	46	45	-2	SW	5	f	3	C	48	45	—		
	Brussels (9 a.m.)	*	*	*	*	*	30.08	-31	41	40	-6	SW	2	0	4	T	48	41	—		
	Cape Gris Nez	30.35	48	SWW	2	0	30.10	-23	38	37	-4	S	1	0	4	0	45	37	—		
	Paris ...	30.35	48	SE	2	m	30.10	-23	38	37	-4	SE	2	C	3	m	50	36	—		
	Brest ...	30.28	46	SE	4	0	30.04	-41	43	42	-3	SE	4	C	2	0	52	39	—		
	Lorient ...	30.28	46	SE	4	0	30.04	-41	43	42	-3	SE	4	C	2	0	52	39	—		
PENIN- SULA.	Roche fort ...	30.28	40	SE	2	0	30.08	-30	35	34	-2	SE	2	C	4	0	46	34	—		
	Belfort ...	30.28	36	E	1	bc	30.16	-42	26	26	+2	E	1	f	4	0	48	23	—		
	Lyons ...	30.42	28	SE	1	f	30.16	-42	26	26	+2	E	1	f	4	0	48	23	—		
	Nice ...	30.28	44	E	2	0	30.02	-41	33	45	+12	E	7	T	4	0	55	41	—		
	Perpignan ...	30.24	38	NE	1	0	30.05	-42	44	43	+13	W	2	T	4	0	52	31	0.04		
	Biarritz ...	30.24	44	E	2	0	30.05	-36	46	42	+15	SW	2	0	2	0	52	31	—		
	Corunna ...	30.21	49	NE	4	bc	30.12	-14	48	41	-2	N	4	0	4	0	53	41	—		
	Lisbon ...	30.21	49	NE	4	bc	30.12	-14	48	41	-2	N	4	0	4	0	53	41	—		

For Explanation of Columns, see bottom of last page.

† Received too late for insertion in Charts on next page.



# WEATHER CHARTS

for 8 a.m. on Thursday, 30<sup>th</sup> Nov. 1893.

## 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:

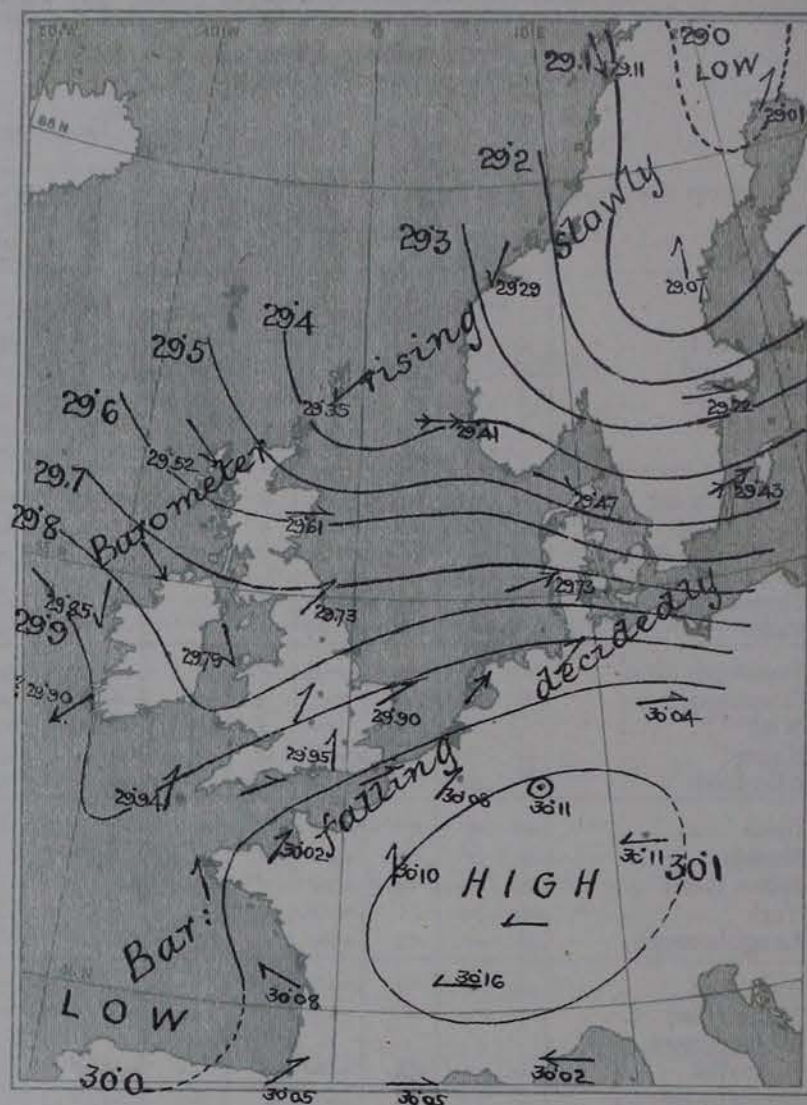
▨ = Rough. ▨ = High.

## MEAN HEIGHT OF THE BAROMETER

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

During the 20 Years 1871—1890.

STATIONS.	MEAN READINGS.
Sumburgh Head	29.683
Stornoway	29.699
Wick	29.722
Nairn	29.738
Aberdeen	29.758
Leith	29.789
Shields	29.813
Spurn Head	29.842
York	29.846
Loughborough	29.877
Ardrossan	29.791
Mullaghmore	29.780
Donaghadee	29.810
Holyhead	29.835
Liverpool	29.851
Parsonstown	29.847
Valencia	29.865
Roche's Point	29.865
Pembroke	29.864
Scilly	29.897
Prawle Point	29.914
Jersey	29.928
Hurst Castle	29.902
Dover	29.893
LONDON	29.898
Oxford	29.896
Cambridge	29.887
Yarmouth	29.865



## 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.

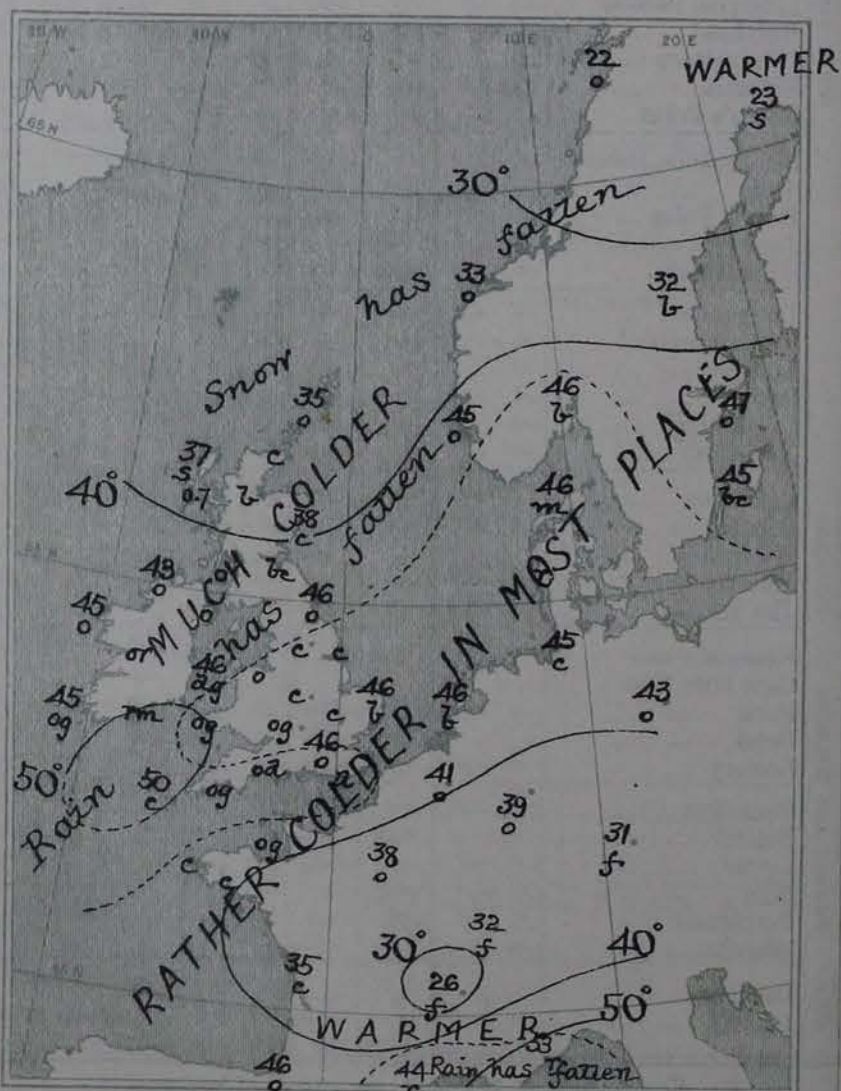
**RAINFALL**—A dotted line separates the districts in which rain has fallen from those where there has been none. Falls of 0.5 in. or more are quoted in figures.

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

(For the month of November.)

STATIONS.	TEMPERATURE.				RAINFALL. (Inches.)
	Daily Max.	Daily Min.	at 8 a.m.		
			Dry.	Wet.	
Sumburgh Head .....	45.6	37.8	42.0	40.3	4.16
Stornoway .....	46.2	37.0	41.7	40.7	4.70
Wick .....	46.1	36.1	41.4	39.8	2.03
Nairn .....	45.3	35.7	39.8	38.2	2.29
Aberdeen .....	46.2	36.5	40.5	38.7	3.14
Leith .....	48.1	37.0	41.7	40.0	2.20
Shields .....	47.3	37.9	42.1	40.5	2.61
Spurn Head .....	46.8	40.2	43.2	41.9	2.40
York .....	47.5	36.4	40.6	39.3	2.19
Loughborough .....	48.0	36.6	40.5	39.3	2.24
Ardrossan .....	47.8	39.1	43.1	41.3	3.88
Mullaghmore .....	49.6	41.2	45.1	43.1	4.48
Donaghadee .....	48.3	39.2	43.2	42.0	3.20
Holyhead .....	49.7	42.9	45.8	44.0	3.88
Liverpool .....	47.8	39.6	42.5	40.7	2.96
Parsonstown .....	49.1	37.1	41.9	40.2	2.83
Valencia .....	52.3	43.0	47.4	45.5	5.42
Roche's Point .....	51.1	42.0	46.1	44.5	4.62
Pembroke .....	50.1	43.8	46.9	45.1	4.04
Scilly .....	52.4	46.7	50.0	48.0	3.72
Prawle Point .....	51.1	41.9	46.2	44.7	3.20
Jersey .....	51.9	44.1	47.7	45.8	4.30
Hurst Castle .....	50.5	40.6	44.9	44.0	3.01
Dover .....	49.3	40.6	44.3	42.8	3.48
LONDON .....	49.3	38.0	42.2	40.8	2.23
Oxford .....	48.2	37.6	41.2	40.0	2.31
Cambridge .....	48.6	35.8	40.7	39.9	2.01
Yarmouth .....	47.5	39.0	43.1	42.0	3.06

NOTE.—The Temperature means are for the 20 years 1871-90, the Rainfall means are mainly those for the 25 years 1865-90.





# GENERAL SITUATION AT 8 A.M.

## PRESSURE

Highest, 30.1 ins: and more over the southeast of France and the southern half of the Peninsula.  
 Lowest, about 29.0 ins: over Lapland, below 29.4 ins: in the Shetlands, and about 29.8 ins: over the southeast of Ireland.  
 Gradients somewhat steep for W<sup>ly</sup> winds over the North Sea and Baltic, but changing greatly at our western stations.  
 Barometer has begun to rise in Scotland and the north of Ireland and the rise is spreading.

## TEMPERATURE

Highest, 51° at Pembroke, 50° at Rocher Point and Lelly, 46° over the central and eastern parts of England.  
 Lowest, (1) 22° at Roda, 23° at Haparanda; (2) 26° at Lyons, 31° at Munich; (3) 35° to 37° at the northern Scotch stations.  
 A rather decided fall has set in at the Scotch and Irish stations and is spreading eastwards.

## WIND

WSW<sup>ly</sup> fresh to a gale at stations lying to the seaward of the North Sea; S<sup>ly</sup> and SW<sup>ly</sup> moderate over England, the Netherlands, and north of France, but NW<sup>ly</sup> to N<sup>ly</sup> over the western parts of Scotland and Ireland and in the coast of Norway.  
 A fresh to strong gale from the SW<sup>ly</sup> was felt at our extreme northern and northwestern stations yesterday, but has since subsided.

## WEATHER

Cloudy generally, and somewhat unsettled, with snow at Haparanda and Norway, and very slight rain in the southeast of England.  
 Slight rain has fallen in many parts of the Kingdom during the past twenty-four hours.

## SEA

Moderate in the north and west and going down generally.

## PROBABLE CHANGES IN SYSTEM NOW PREVALENT

A "V" shaped disturbance now stretches from our northern districts down our western coasts and is moving eastwards. In its rear N<sup>ly</sup> winds are setting in with a great fall of temperature, and these appear likely to become general during the coming 24 hours.

## FORECASTS

For the 24 hours ending at NOON on 1<sup>st</sup> December 1893.

### DISTRICTS.

### FORECASTS.

- |   |                  |  |
|---|------------------|--|
| 0 | SCOTLAND NORTH   | NW <sup>ly</sup> breezes; cold, some showers of snow.                            |
| 1 | SCOTLAND EAST    | Wind shifting to NW <sup>ly</sup> ; much colder, some snow.                      |
| 2 | ENGLAND N.E.     |  |
| 3 | ENGLAND EAST     | SW <sup>ly</sup> winds, moderate, some rain then NW <sup>ly</sup> , much colder. |
| 4 | MIDLAND COUNTIES |  |
| 5 | ENGLAND SOUTH    |  |

### DISTRICTS.

### FORECASTS.

- |          |               |   |
|----------|---------------|---|
| 6        | SCOTLAND WEST | N <sup>ly</sup> breezes, moderate; some cold showers. |
| 7        | ENGLAND N.W.  |   |
| 8        | ENGLAND S.W.  | Same as Nos 3 to 5.                                   |
| 9        | IRELAND NORTH | Same as Nos 6 and 7.                                  |
| 10       | IRELAND SOUTH |   |
| WARNINGS |               | Signals all lowered this morning.                     |

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. Direc.	F.	WEA.	SEA.		BAR.	THER.		WIND. Direc.	F.	WEA.	SEA.
		Dry.	Wet.							Dry.	Wet.				
Skudesnaes ...	29.47	50	48	W.S.W.	2	0	5	Valencia ...	30.06	52	51	S	5	om g	5
Somburgh Head ...	29.15	48	48	W	3	7	4	Seilly ...	30.24	51	48	S.W.	5	0 g	5
Stornoway ...	29.27	52	52	W.S.W.	9	7	6	Jersey ...	30.36	50	47	S.W.	3	c	3
Aberdeen ...	29.50	52	48	S.W.	6	cq	4	Hurst Castle ...	30.26	49	47	W.S.W.	4	c	3
Shields ...	29.82	52	49	S.W.	5	C	3	Dungeness ...	30.25	49	47	W	4	0	3
Androsan ...	29.75	51	50	W.S.W.	5	of	4	North Foreland ...	30.22	49	47	W	3	0	2
Malin Head ...	29.65	51	51	S.W.	8	0	5	London ...	30.22	51	48	S.W.	3	cg	*
Mullaghmore ...								Yarmouth ...	30.11	49	47	W.S.W.	3	cg	4
Belmullet ...	29.79	53	51	S.W.	8	om	*	Rochefort ...	30.37	45	41	S.E.	3	5	*
Holyhead ...	30.04	51	49	S.W.	6	cq	5								

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

Weather cloudy or overcast in all but the southern countries, with rain in the Netherlands, Helides, and west of Norway, as well as at some of the German stations, and with snow at Riga and Moscow. Fine and bright over Spain, Italy, and the south of France, but cloudy at most of the Alpine stations, and raining at La Caille. Rain falling later in many parts of the United Kingdom - heavily at Stornoway.

Temperature fallen slightly in the east and north of our Islands and more decidedly in Italy and the south of France, but risen in most other localities. Morning readings highest 62° at Malta, 59° at Brindisi, and La Caille, and 55° at Algiers; ranging between 50° and 54° in all the more western and northern parts of the United Kingdom. Lowest, -3° Fahr: at Haparanda, +2° at Archangel, 12° at Uleaborg and 18° at Kioopio; below the freezing point over Russia and the north of Scandinavia generally. Rising later to between 55° and 59° in the north of Scotland, but remaining below 50° in the southeast of England, as well as at several of the French stations; maximum at Lyons (where fog prevailed) only 29°.

Wind fresh or strong from the S.W. over our Islands, with a gale in the Helides; moderate to strong from S.W. or W. over Denmark, Germany, the Baltic, and the south of Scandinavia; light from the S.W. in Ireland and Lapland. Light E. in the west and south of France, and NE. in Spain, but variable in Italy, and S. in Algeria. Subsequently increasing to a fresh or strong gale from the S.W. on our extreme north and northwest coasts; no important change occurring elsewhere.

Barometer highest 30.5 ins: and upwards over Switzerland and Central France; 30.3 ins: and upwards, in an anti-cyclone covering a considerable portion of central and southern Europe, and extending northwards over the south of England. Lowest, 29.2 ins: and less, in a depression over the north of Sweden; 29.4 ins: and less, in another disturbance off the north of Scotland; gradients very steep over the northern parts of our Islands. Depression off north of Scotland subsequently moving northeastwards, and barometer rising again on our extreme northern coasts.

### EXPLANATION OF THE 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.

N.B.—The morning observations are made at 8 a.m. in the British Islands, Germany, Sweden, and Norway, 7 a.m. in France, Spain and Portugal, and 9 a.m. in Belgium. The evening observations are made at 6 p.m. in the British Islands (as a rule), and France, 8 p.m. at Oxford, in Sweden, Norway, and Germany, and 9 p.m. in Belgium. The time at each Station is the Standard Time of its Country.

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# ADDITIONS AND CORRECTIONS TO THE

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

		YESTERDAY EVENING.					8 A.M. TO DAY.										PAST 24 HOURS			
DATE.	STATIONS.	BAROM.	TEMP.	WIND.		Weather.	BAROMETER.		SHADE TEMP.			WIND.		Force (0 to 12).	Weather.	Sea (0 to 9).	Weather.	SHADE TEMP.		Amount of Rainfall.
		Reading at 32° F. and Sea Level.	Dry Bulb.	Dirce.	Force (0 to 12).		Reading at 32° F. and Sea Level.	Change since Yesterday Morn.	Dry Bulb.	Wet Bulb.	Change in dry since Yesterday.	Dirce.								
1	Corunna	*	*	*	*	*	30.32	+38	54	50	- 2	NE	4	6	4	*	54	46	-	
2	The Helder	29.67	49	WSW	7	r	29.67	-35	49	-	+ 9	W	5	0	5	r	50	39	0.35	
	Belfort	?	45	W	3	0	?	?	42	-	- 5	W	3	3	*	0	50	42	-	
	Corunna	*	*	*	*	*	30.14	-18	46	42	- 8	E	4	6	3	*	57	39	-	
3	Corunna	*	*	*	*	*	30.04	-10	56	50	+ 10	E	4	6	4	*	57	43	-	
4	Malin Head	29.51	53	SW	6	0	30.00	+40	44	38	- 4	N	5	c	3	0	53	42	0.26	
6	Corunna	*	*	*	*	*	29.81	+07	61	59	+ 1	SSE	2	6c	4	*	64	57	0.28	
7	Belfort	?	49	E	3	c	?	?	39	-	- 9	ENE	3	c	*	c	54	35	-	
	Corunna	*	*	*	*	*	29.74	-07	59	53	- 2	E	5	0	4	*	63	57	0.20	
9	Corunna	*	*	*	*	*	29.84	-	47	41	-	NE	6	0	7	*	52	39	0.04	
11	Belfort	?	35	E	2	m	?	?	34	-	- 1	E	2	m	*	m	37	31	-	
13	Corunna	*	*	*	*	*	29.76	-	59	59	-	SSW	6	0	4	*	64	52	0.12	
15	Corunna	*	*	*	*	*	29.94	-	63	60	-	SW	4	0	3	*	64	57	0.32	
16	Belfort	?	53	SSW	4	0	?	?	46	-	-	SW	1	m	*	0	56	45	0.51	
	Corunna	*	*	*	*	*	29.67	-27	67	64	+ 4	SW	7	0	4	*	68	59	0.08	
18	Haparanda	29.44	36	SW	6	0	29.38	-09	36	36	+ 1	SW	6	0	*	0	36	32	-	
	Hernösand	29.58	36	S	8	0	29.47	-24	36	35	0	S	4	0	*	0	39	32	-	
	Stockholm	29.77	36	S	2	0	29.53	-50	39	38	+ 6	S	2	r	*	0	39	27	0.04	
	Kristby	29.79	37	S	4	0	29.50	-59	39	38	+ 5	SSE	6	0	*	0	44	28	0.04	
	Janiö	29.22	38	SE	6	r	29.10	-56	38	37	0	SE	6	r	*	r	39	37	0.12	
	Sumburgh Hd.	28.71	48	E	3	r	29.58	+68	28	27	- 7	N	7	0	5	r	48	27	1.75	
	Stornoway	28.98	39	NW	8	r	29.85	+106	33	32	- 7	N	8	S	6	r	42	31	0.58	
	Wick	28.57	43	N	7	r	29.65	+094	33	32	- 10	N	9	0	8	r	49	33	2.10	
	Aberdeen	28.69	42	SW	3	0	29.44	+71	35	32	- 14	N	10	0	9	rsps	51	32	0.99	
	Malin Head	28.98	41	N	10	0	29.72	+96	37	37	- 9	NW	10	0	6	0	46	37	0.30	
	Belfort	?	54	SSW	4	r	?	?	41	-	- 1	SW	2	r	*	r	55	41	0.39	
	Ararossan 2pm	-	-	-	-	-	29.78	-	35	34	-	NW	7	c	4	-	-	-	-	
	Malin Head 2pm	-	-	-	-	-	29.86	-	41	40	-	N	8	0	5	-	-	-	-	
19	Jersey	-	-	-	-	-	29.73	+61	38	34	- 9	NW	7	c	5	0	47	37	0.30	
	Biarritz	29.65	52	NW	9	r	29.73	+03	47	-	- 6	NW	9	r	9	r	54	39	0.67	
20	Sumburgh Hd.	30.25	33	NNE	3	c	30.38	+36	37	35	+ 5	NW	1	0	4	c	37	29	-	
	Wick	30.21	35	N	5	0	30.39	+35	37	37	+ 3	NW	3	0	3	0	37	32	0.03	
	Cape Gris Neg	29.48	41	N	8	0	29.65	+32	43	-	+ 5	NE	8	r	7	0	48	34	0.67	
	Corunna	*	*	*	*	*	30.16	-	46	42	-	E	6	0	5	*	54	39	0.04	
21	Cape Gris Neg	29.96	41	ENE	7	r	30.24	+59	36	-	- 7	ESE	4	0	4	r	46	34	0.08	
	Corunna	*	*	*	*	*	30.20	+04	52	48	+ 6	NNE	4	0	3	*	52	43	0.08	
22	Boao	29.34	33	ESE	7	S	29.04	-81	37	36	+ 2	ESE	2	0	1	S	37	30	-	
	Corunna	*	*	*	*	*	30.27	+07	57	45	- 1	NNE	6	0	4	*	55	45	-	
23	Cape Gris Neg	29.91	41	N	6	0	29.87	-32	34	-	- 8	N	6	0	5	c	45	32	-	
24	Corunna	*	*	*	*	*	30.39	-	50	45	-	NNE	6	0	5	*	52	39	0.04	
26	Skuaesnaes	29.31	38	NW	1	0	29.36	+10	34	-	- 6	NW	2	0	1	*	40	32	-	
	Cape Gris Neg	29.71	49	W	5	0	29.43	-49	48	-	+ 2	NW	5	r	4	0	50	37	0.32	
27	Cape Gris Neg	29.72	41	NW	7	0	30.20	+77	38	-	- 10	N	4	6c	4	0	50	36	-	
28	Lions	30.35	36	N	4	6c	30.56	+53	30	-	- 11	NW	1	6	*	6c	41	28	0.04	
	Corunna	*	*	*	*	*	30.42	+09	45	43	- 7	ENE	?	?	2	*	52	?	-	
29	Corunna	*	*	*	*	*	30.26	-16	42	37	- 3	ESE	5	6	1	*	54	34	-	
30	Cape Gris Neg	30.19	48	W	5	r	29.98	-31	45	-	- 5	SW	4	0	4	r	50	43	-	
	Corunna	*	*	*	*	*	30.06	-20	48	41	+ 6	SE	4	6	1	*	55	37	-	



