

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. Serv.*

21. 1. 95



# DAILY WEATHER REPORT.

July to December 1893.





# DAILY WEATHER REPORT

for 8 a.m. on FRIDAY. 1<sup>ST</sup> DECEMBER. 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.			Dirac.	Force (0 to 13).	Dry Bulb.	Wet Bulb.	Change in dry since Yesterday.			Dirac.	Force (0 to 13).		Max.	Min.		
Ina.		°				Ina.	°	°	°						°	Ina.					
SCANDINAVIA.	Haparanda ...	29.28	7	NW	2	6	29.41	+40	2	2	-21	NW	2	m	*	30	2	0.04			
	Hernösand ...	29.44	23	2	0	0	29.47	+40	21	20	-11	NW	4	0	*	34	21	0.12			
	Stockholm ...	29.40	33	NW	2	7	29.38	+16	36	31	-11	N	6	0	*	44	36	—			
	Wisby ...	29.54	44	N	6	0	29.53	+10	42	40	-3	N	6	0	*	46	41	—			
	Bodö ...	29.19	25	NW	8	8	29.30	+19	37	23	+5	NW	6	0	4	27	21	—			
	Christiansund...	29.32	25	NW	7	0	29.64	+35	27	25	-6	NW	4	8	4	33	23	0.20			
	Skudesnaes ...	29.60	35	NW	8	ashy	29.75	+15	37	26	-18	N	2	8	3	c. ash	45	25	—		
	Christiania Fjord (Færdar)	29.38	42	NW	8	6	29.65	+27	38	22	-18	NW	6	6	3	46	28	—			
	Skagen (The Seaw)	29.47	43	NW	4	bc	29.67	+20	33	28	-13	NW	2	0	0	bc	48	32	—		
	Fanö ...	29.65	44	NW	4	0	29.70	-23	35	33	-11	NE	4	0	*	46	35	0.08			
BRITISH ISLANDS.	Sumburgh Head	29.72	26	N	2	bc	29.82	+47	26	25	-9	N	1	0	3	c. bc	35	21	0.10		
	Stornoway ...	29.74	30	N	4	8	29.80	+48	22	22	-15	N	2	8	4	c. 8	37	22	0.65		
	Wick ...	29.75	29	NE	3	c	29.91	+42	25	24	-11	NNE	4	c. w	2	c	37	23	0.10		
	Nairn ...	29.67	32	2	0	c	29.99	+38	22	21	-17	NW	1	6	1	c. 8	40	21	0.08		
	Aberdeen ...	29.73	23	NW	3	bc	29.93	+32	24	23	-14	NW	3	bc	3	c. w. bc	41	23	0.14		
	Leith ...	29.80	33	N	2	0	29.93	+48	30	28	-14	N	2	c. 8	*	44	28	0.01			
	Shields ...	29.75	42	N	2	0	29.84	+11	32	30	-14	NW	4	6	2	od. 0.7	47	31	0.08		
	Spurn Head ...	29.71	43	NW	3	7.8	29.71	-07	37	36	-9	N	3	7	4	m. 7.8	47	35	0.20		
	York ...	29.75	43	NW	1	0	29.82	+05	34	33	-12	N	1	c	*	46	32	0.22			
	Loughborough	29.76	47	SW	1	0	29.79	-09	34	34	-12	NW	2	om. 8	*	35	33	0.17			
BRITISH ISLANDS.	Ardrossan ...	29.80	38	2	0	8	29.81	+28	28	26	-16	N	1	6	0	c. 8. 8	44	27	0.01		
	Malin Head ...	29.83	36	NW	5	oh. 7.8	29.85	+25	34	32	-9	NW	6	oh. 8	4	c. 7.8	43	32	0.12		
	Mullaghmore ...	29.80	41	N	5	0	29.14	+39	37	33	-8	N	5	bc. 8	*	45	35	0.05			
	Belmullet ...	29.82	43	NW	5	c	29.95	+13	36	33	-8	N	7	bc. 8	5	c. 8	45	34	0.03		
	Donaghadee ...	29.82	43	NW	5	c	29.95	+13	36	33	-8	N	7	bc. 8	5	c. 8	45	34	0.03		
	Liverpool (Bldston)	29.78	43	NW	1	0	29.86	+07	37	33	-12	NW	4	6	3	0	48	35	0.16		
	Holyhead ...	29.78	43	NNE	2	7.8	29.83	+10	33	36	-7	NW	6	bc	5	7.8	46	35	0.20		
	Parsonstown ...	29.82	33	2	0	0	29.88	+25	32	30	-10	NW	1	6	*	42	29	0.13			
	Valencia ...	29.82	40	ENE	6	7.8	29.88	+28	40	36	-5	NNE	5	c	4	om. 7.8	45	38	0.68		
	Roche's Point	29.77	33	NE	5	d	29.82	+20	35	33	-15	N	2	6	2	d	35	32	0.60		
BRITISH ISLANDS.	Pembroke (St. Ann's Hd.)	29.78	35	2	0	8	29.81	+28	28	26	-16	N	1	6	0	c. 8. 8	44	27	0.01		
	Scilly ...	29.78	35	2	0	8	29.81	+28	28	26	-16	N	1	6	0	c. 8. 8	44	27	0.01		
	Prælle Point ...	29.81	48	SW	4	0	29.74	-22	38	38	-9	NNE	5	8. 8	4	8. 8	49	38	0.25		
	Jersey (St. Aubin's)	29.87	46	2	3	0	29.71	-31	49	49	+1	NE	3	8. 8	3	8. 8	49	46	0.07		
	Hurst Castle ...	29.83	47	SW	3	d	29.72	-24	40	39	-7	NNE	5	om. 7	4	od. c. d	49	39	0.20		
	Dungeness ...	29.81	46	SW	5	d	29.67	-29	46	46	0	NW	3	c	5	7. d	46	34	0.05		
	North Foreland	29.82	46	SW	2	c. 8	29.65	-31	46	45	0	SW	2	c. 8	2	c. 8. 8	46	35	—		
	London ...	29.82	47	SW	3	8. 8	29.71	-24	38	37	-8	N	3	8. 8	*	c. 8. 8	33	37	0.10		
	Oxford ...	29.76	46	SW	2	0	29.76	-17	35	34	-11	N	3	8. 8	*	0	35	35	0.10		
	Cambridge ...	29.77	47	2	5	0	29.73	-18	36	35	-10	NW	4	7	*	0	32	34	0.13		
GERMANY & HOLLAND.	Yarmouth ...	29.76	47	SW	2	c	29.64	-26	41	40	-5	NW	3	8. 8	3	c. 8. c	49	40	0.05		
	Cuxhaven ...	29.82	44	NW	1	0	29.67	-27	41	41	-4	SW	2	f	*	0	45	41	—		
	Berlin ...	29.81	31	2	0	8	29.81	-30	40	39	+1	2	0	0	*	48	37	0.04			
	Wiesbaden ...	29.81	31	2	0	8	29.80	-31	31	31	0	NW	2	f	*	32	28	—			
	Munich ...	29.81	31	2	0	8	29.80	-31	31	31	0	NW	2	f	*	32	28	—			
	The Helder ...	29.78	46	SW	4	7	29.65	-32	45	44	-1	SW	4	0	3	7	48	45	0.12		
	Brussels (9 a.m.)	29.77	31	3	3	5	29.77	-31	37	35	-4	SW	4	0	*	bc	45	33	—		
	Cape Gris Nez	29.96	34	2	2	0	29.82	-28	33	32	-5	2	2	c	*	0	33	31	—		
	Paris ...	29.96	34	2	2	0	29.82	-28	33	32	-5	2	2	c	*	0	33	31	—		
	Brest ...	29.96	34	2	2	0	29.82	-28	33	32	-5	2	2	c	*	0	33	31	—		
FRANCE AND BELGIUM.	Lorient ...	29.96	34	2	2	0	29.82	-28	33	32	-5	2	2	c	*	0	33	31	—		
	Rocheport ...	29.97	41	SW	2	c	29.86	-22	40	40	+5	SW	2	0	*	bc. c	45	32	—		
	Belfort ...	29.97	41	SW	2	c	29.86	-22	40	40	+5	SW	2	0	*	bc. c	45	32	—		
	Lyons ...	29.97	41	SW	2	c	29.86	-22	40	40	+5	SW	2	0	*	bc. c	45	32	—		
	Nice ...	29.97	41	SW	2	c	29.86	-22	40	40	+5	SW	2	0	*	bc. c	45	32	—		
	Perpignan ...	29.97	41	SW	2	c	29.86	-22	40	40	+5	SW	2	0	*	bc. c	45	32	—		
	Biarritz ...	29.97	41	SW	2	c	29.86	-22	40	40	+5	SW	2	0	*	bc. c	45	32	—		
	Corunna ...	29.97	41	SW	2	c	29.86	-22	40	40	+5	SW	2	0	*	bc. c	45	32	—		
	Lisbon ...	29.97	41	SW	2	c	29.86	-22	40	40	+5	SW	2	0	*	bc. c	45	32	—		
	Lisbon ...	29.97	41	SW	2	c	29.86	-22	40	40	+5	SW	2	0	*	bc. c	45	32	—		

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, 1<sup>st</sup> December 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

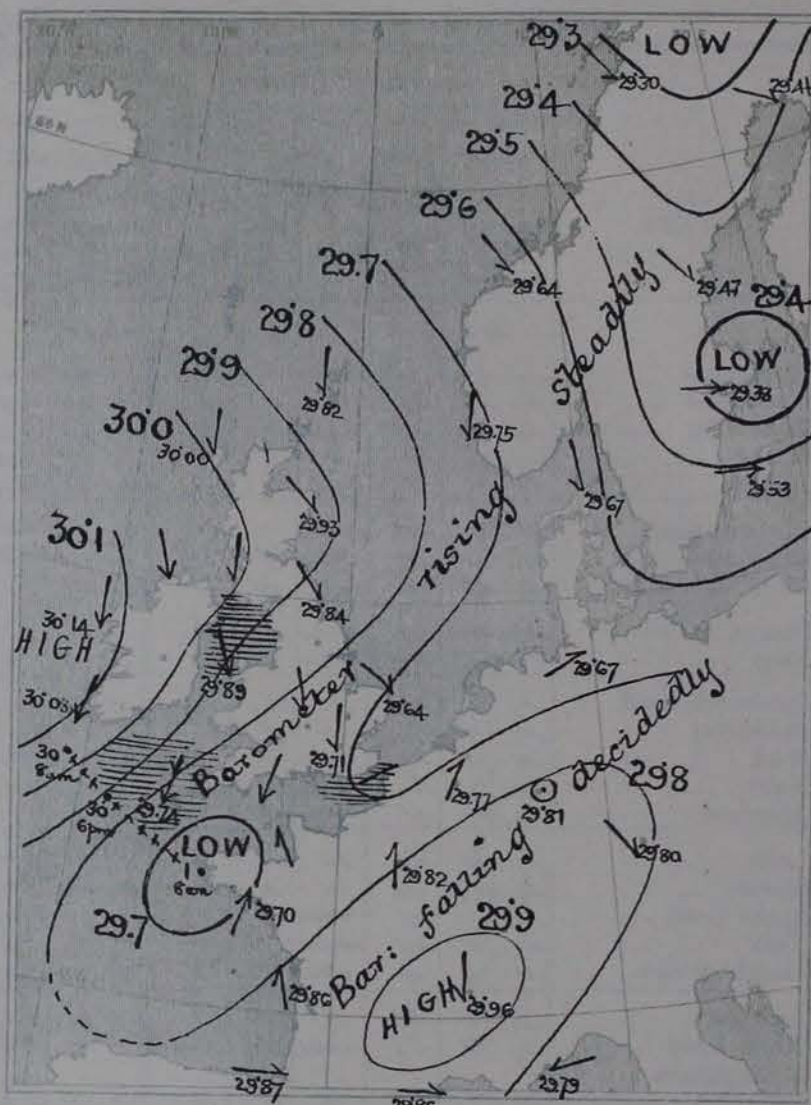
at 8 a.m. for the month of December.

During the 20 Years 1871—1890.

### STATIONS.

### MEAN READINGS.

STATIONS.	MEAN READINGS.
Sumburgh Head	29.673
Stormoway	29.795
Wick	29.718
Nairn	29.743
Aberdeen	29.767
Leith	29.807
Shields	29.845
Spurn Head	29.873
York	29.890
Loughborough	29.924
Ardrossan	29.920
Mullaghmore	29.821
Donaghadee	29.848
Holyhead	29.879
Liverpool	29.895
Parsonstown	29.901
Valencia	29.905
Roche's Point	29.912
Pembroke	29.916
Seilly	29.951
Prawle Point	29.970
Jersey	29.985
Hurst Castle	29.958
Dover	29.953
LONDON	29.954
Oxford	29.955
Cambridge	29.941
Yarmouth	29.916



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

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

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

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

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

(For the month of December.)

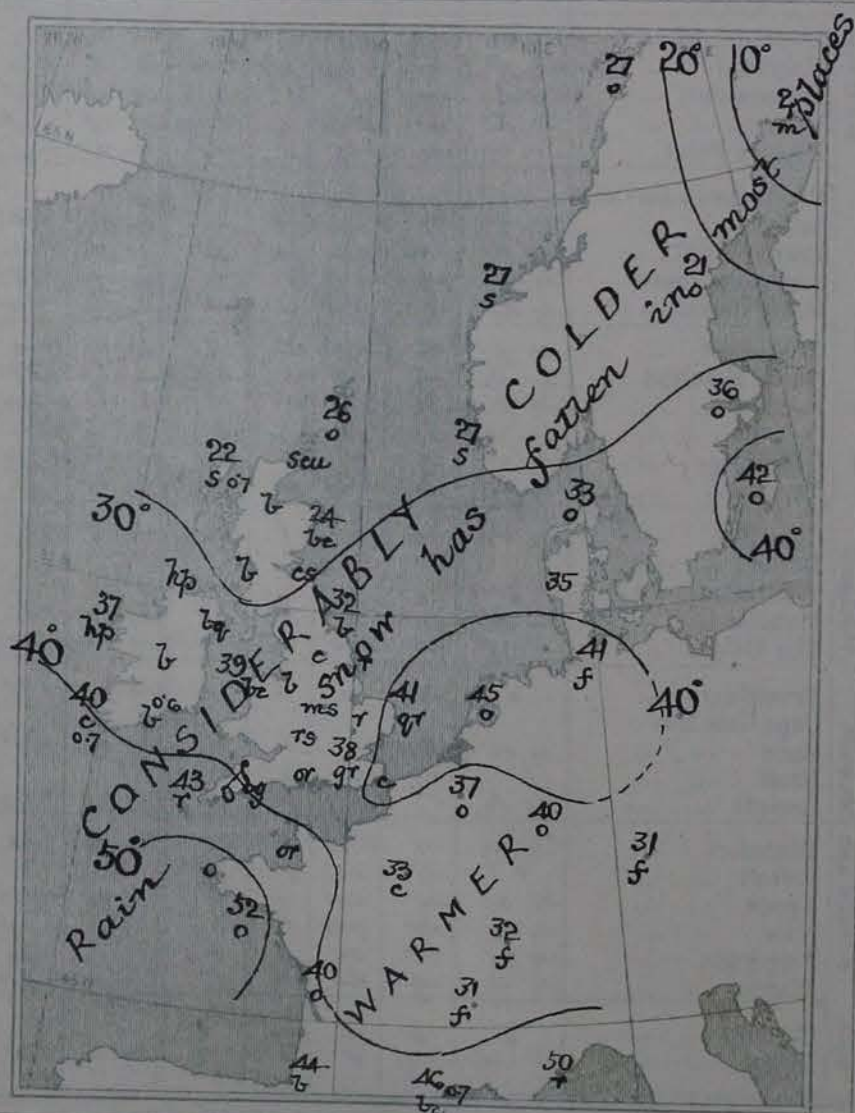
### STATIONS.

### TEMPERATURE.

### RAINFALL

STATIONS.	TEMPERATURE.				RAINFALL (Inches)
	Daily Max.	Daily Min.	Dry.	Wet.	
Sumburgh Head	42.6	35.2	39.6	38.1	4.25
Stormoway	43.1	34.2	39.1	38.5	5.63
Wick	42.2	32.7	38.1	36.8	3.10
Nairn	41.0	32.8	37.1	35.6	1.95
Aberdeen	41.9	32.6	36.9	35.2	3.24
Leith	44.0	33.7	38.5	37.0	1.86
Shields	42.9	33.9	38.3	36.9	2.57
Spurn Head	42.4	35.3	38.8	37.1	2.14
York	42.3	32.3	36.4	35.4	2.28
Loughborough	42.7	32.2	36.3	35.4	2.24
Ardrossan	44.5	35.9	40.0	38.7	3.73
Mullaghmore	46.5	37.8	42.2	39.8	4.51
Donaghadee	45.8	36.2	40.2	39.3	2.84
Holyhead	46.4	39.1	42.8	41.1	3.82
Liverpool	43.5	35.6	38.8	37.1	2.59
Parsonstown	44.7	33.1	37.8	36.6	3.01
Valencia	49.7	40.0	44.6	42.4	5.99
Roche's Point	47.9	38.9	42.0	41.5	4.95
Pembroke	46.8	40.3	43.6	42.2	3.99
Seilly	49.5	43.4	47.0	45.1	4.02
Prawle Point	47.0	38.2	42.5	41.1	3.76
Jersey	47.3	39.3	43.1	41.4	3.82
Hurst Castle	45.6	36.3	40.6	39.8	2.78
Dover	44.3	35.9	39.8	38.6	3.00
LONDON	44.0	33.9	37.8	36.7	2.10
Oxford	42.9	33.5	37.0	35.9	2.10
Cambridge	42.8	31.6	36.2	35.5	1.88
Yarmouth	41.9	33.7	37.0	37.0	2.66

**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, (1) 30.0 ins: and more to 30.1 ins: over Ireland and the west of Scotland, and apparently still higher over the adjacent parts of the Atlantic; 29.9 ins: and more at Lyons.  
Lowest, (1) 29.3 ins: and less, over Lapland; (2) 29.4 ins: and less, near Stockholm; (3) 29.7 ins: and less at the mouth of the Channel.

Gradients rather steep for N<sup>th</sup> winds off our southwest coasts. They are favourable for N<sup>th</sup> winds over our Islands generally, but for SW<sup>th</sup> winds over France.  
Barometer rising over our Islands and Scandinavia, falling over France and Germany.

## TEMPERATURE

Highest, 52° at Lorient, and Brest, 49° at Jersey, 48° at Nice, 47° at Lisbon, 46° at Perpignan, and at Dungeness and North Foreland.

Lowest, (1) 22° at Tromsø and Vairn, 24° at Aberdeen, 25° at Wick; (2) 2° F. at Haparanda, 21° at Helsingfors; (3) 31° at Lyon, and Munich.

The maxima exceeded 50° at most of our southern stations yesterday but the fall since then has been very decided. Hard frost prevails over Scotland this morning.

## WIND

N<sup>th</sup> all over the United Kingdom — moderate or fresh in most places, but strong to a gale over the Irish Sea and St. George's Channel.  
Over France it is very variable and light, but chiefly S<sup>th</sup> on the western and northern coasts.  
A strong NW<sup>th</sup> breeze is reported in Norway; W<sup>th</sup> in Sweden.

## WEATHER

Fine and bright at many of our western and northern stations, dull and wet in the south and east. Snow is falling in several parts of the Kingdom.  
The amount of rainfall measured this morning was 0.6 in: or upwards at Tromsø, Valencia, and Roche's Point, but was much smaller elsewhere.

## SEA

Rather rough on our eastern coasts, moderate or slight elsewhere.

## PROBABLE CHANGES IN SYSTEM NOW PREVALENT

Unsettled weather is likely to continue in the south and east of England today, and a further fall of temperature over this country is probable.

## FORECASTS

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

### 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> breezes; very cold, some snow showers

N<sup>th</sup> and NE<sup>th</sup> winds; becoming still colder, showery, very sharp tonight.

### 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.

W<sup>th</sup> winds, strong to moderate; cold showers, squally.

N<sup>th</sup> winds, fresh to light; fine, hard frost inland tonight.

### 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.			
Skudesnæs ...	29.44	43	58	N	8	C	5	Valencia ...	29.79	59	58	NE	6	omg	4
Gumburgh Head ...	29.62	58	58	N	4	S	4	Scilly ...	29.81	50	48	S	4	C	4
Stornoway ...	29.76	52	52	N	4	C	4	Jersey ...	29.83	49	46	SW	3	og	3
Aberdeen ...	29.68	52	54	NW	5	cg	4	Hurst Castle ...	29.87	48	47	SW	3	C	2
Shields ...	29.72	45	48	SW	2	od	2	Dungeness ...	29.86	45	45	NW	4	T	3
Ardrossan ...	29.83	45	41	N	4	C	3	North Foreland ...	29.86	46	45	SW	2	ogm	2
Malin Head ...	29.80	58	57	N	3	chf	3	London (Museum) ...	29.84	52	49	SW	3	C	*
Mullaghmore ...	29.85	42	39	N	3	O	*	Yarmouth ...	29.79	49	48	NW	3	cm	3
Belmullet ...	29.85	42	39	N	3	O	*	Rochefort ...	30.04	42	40	ESE	2	bc	*
Holyhead ...	29.79	43	42	NNE	2	Tmg	2								

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

Weather in morning fine and bright in Portugal, and at some stations in England and Scotland, but very unsettled over Europe as a whole. Fog very prevalent over Austria and South Germany, rain in several parts of the United Kingdom, the Netherlands, Denmark and Finland, also in the south of France and at Algiers; snow at Stornoway. Rain and wet snow falling later over England and Ireland, snow in Scotland. Amount of fall large at Stornoway and in the south of Ireland, slight elsewhere. Clear in Scotland at night.

Temperature fallen fast in Norway, Scotland and Ireland; morning readings low in many places, highest 67° at Malta, 57° at Barcelona, and above 50° at several Mediterranean stations, 50° to 51° on some parts of our southwestern coasts. Lowest 2° F. at Archangel and Moscow, 17° at Kuopio, 22° at Rode; (2) 26° at Lyons, 28° at Limoges and Le Mans. Falling fast in Ireland and Scotland later, and fall spreading southwards.

Wind light and anticyclonic over southern Europe; stronger and cyclonic elsewhere, (1) NW to N in Scotland and Ireland, SW to S over England, the north of France and the Netherlands; (2) N in Norway, W over the North Sea and Baltic, S and SE over Scandinavia. Another cyclonic circulation over the western part of the Mediterranean. The N wind at our western and northern stations becoming stronger later and spreading gradually over England.

Barometer highest 30.3 in. and more over southern Europe, and exceeding 30.0 in. over France, Germany and Austria. Lowest, 29.0 in. over Iceland, below 29.4 in. over the Shetlands, below 29.8 in. over the south of Ireland, and also over the western parts of the Mediterranean. Rising over Scotland, Ireland and Norway later, falling over France and Germany.

### 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 2<sup>ND</sup> DECEMBER. 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 Yester- day Morn.	Dry Bulb.	Wet Bulb.	Change in dry since Yesterday.			Dirac.	Force (0 to 12).		Max.	Min.
Ins.		°				Ins.	°	°	°							°	Ins.			
SCANDINAVIA.	Haparanda ...	29.58	-14	2	0	b	29.45	+0.4	-23	-23	-25	2	0	b	*	b	10	?	—	
	Hernösand ...	29.64	9	2	0	b	29.65	+1.8	8	8	-13	2	0	b	*	b	25	5	—	
	Stockholm ...	29.68	22	NW	2	0	29.82	+4.4	20	19	-16	NNW	2	0	*	0	41	19	—	
	Wisby ...	29.65	30	N	6	0	29.73	+2.0	28	27	-14	NE	4	0	*	0	43	27	0.20	
	Bodö ...	29.34	26	N	8	0	29.23	-0.7	23	21	-4	0	6	0	*	0	27	19	—	
	Christiansund...	29.72	28	NNW	6	0	29.86	+1.6	26	24	-1	NNW	8	0	5	0	28	23	—	
	Skudesnaes ...	29.82	30	NNW	2	0	30.04	+2.2	26	26	-1	N	2	0	3	0	30	25	—	
	Christiania Fjord (Farrier)	29.77	26	NNW	2	0	—	—	22	19	-6	NNW	4	0	1	0	28	21	—	
	Skagen (The Scaw)	29.80	30	NE	2	0	29.96	+2.9	30	29	-3	N	2	0	0	0	34	25	—	
	Fanö ...	29.83	31	NE	2	0	30.05	+3.5	31	30	-4	N	1	0	*	0	36	28	—	
BRITISH ISLANDS.	Sumburgh Head	29.84	24	NNE	2	b.c.	29.88	+0.6	29	28	+13	NNW	6	0	6	b.c.	33	23	0.22	
	Stornoway ...	30.06	28	N	4	0	30.15	+1.5	35	35	+13	N	4	0	4	0	35	20	0.32	
	Wick ...	30.02	24	N	0	0	30.07	+1.6	32	30	+7	NNW	6	0	1	0	32	23	0.12	
	Nairn ...	30.07	26	N	1	0	30.23	+2.4	30	29	+8	NNW	2	0	1	0	30	15	—	
	Aberdeen ...	30.09	28	N	0	0	30.29	+2.6	26	25	+2	SW	3	0	3	b.c.	29	22	0.23	
	Leith ...	30.14	29	N	1	0	30.37	+4.4	27	26	-3	NNW	1	0	1	0	33	26	—	
	Shields ...	30.07	27	NNW	4	b.c.	30.38	+3.4	26	26	-6	N	2	0	4	0	32	22	0.12	
	Spurn Head ...	29.87	32	NNW	6	c	30.36	+6.5	30	29	-7	NNW	4	0	4	0	37	29	0.20	
	York ...	30.07	28	N	5	0	30.40	+5.8	22	22	-12	N	1	0	1	0	36	20	0.01	
	Loughborough	30.09	29	NNW	3	0	30.48	+6.4	17	17	-17	NNW	1	0	1	0	36	17	0.04	
GERMANY & HOLLAND.	Ardrossan ...	30.17	31	2	0	0	30.39	+3.8	25	24	-3	ENE	1	0	1	0	34	24	—	
	Malin Head ...	30.20	36	N	5	b.c.	30.40	+3.5	29	27	-5	N	2	0	2	0	40	33	—	
	Mullaghmore ...	30.30	40	NNW	5	c	30.49	+3.5	38	36	+1	SE	1	0	1	0	40	33	0.23	
	Belmullet ...	30.21	36	NNW	5	c	30.43	+4.8	34	32	-2	NNW	3	0	2	0	37	32	0.13	
	Liverpool (Bidston)	30.16	30	N	3	0	30.46	+6.0	29	28	-8	2	0	0	1	0	33	27	0.22	
	Holyhead ...	30.17	36	NNW	5	0	30.43	+3.4	36	34	-3	NE	1	0	2	0	40	34	0.04	
	Parsonstown ...	30.27	29	2	0	0	30.50	+4.2	22	22	-10	2	0	0	1	0	35	22	—	
	Valencia ...	30.32	33	NE	2	0	30.53	+4.5	33	31	-7	ENE	1	0	1	0	40	30	—	
	Roche's Point	30.28	32	NE	3	0	30.50	+4.8	32	30	-3	ENE	2	0	3	0	37	29	—	
	Pembroke (St. Ann's Hd.)	30.18	35	NNW	4	b.c.	30.43	+3.5	35	33	-4	ENE	2	0	2	0	42	32	—	
FRANCE AND SWITZERLAND.	Scilly ...	30.04	42	NE	7	b.c.	30.36	+6.2	29	25	-4	ENE	6	0	5	0	45	34	—	
	Prawle Point ...	30.09	34	N	4	0	30.41	+6.7	30	29	-8	ENE	4	0	3	0	40	26	—	
	Jersey (St. Aubin's)	29.99	42	N	5	0	30.32	+6.1	40	37	-9	NE	5	0	4	0	50	37	0.13	
	Hurst Castle ...	30.07	36	NE	4	b.c.	30.41	+6.9	37	26	-13	N	3	0	3	0	40	26	0.01	
	Dungeness ...	29.94	34	N	5	b.c.	30.38	+6.8	31	31	-15	NNW	4	0	3	0	48	28	0.06	
	North Foreland	29.93	36	N	6	c.g.	30.36	+7.1	36	34	-10	N	2	0	3	0	46	30	0.22	
	London ...	30.04	35	NNW	6	b.c.	30.41	+7.0	37	26	-11	NNW	1	0	1	0	47	26	0.06	
	Oxford ...	30.15	29	N	3	0	30.44	+6.8	22	21	-13	NE	1	0	1	0	37	22	0.01	
	Cambridge ...	30.02	31	NNW	8	0	30.43	+7.0	21	21	-15	NNW	1	0	1	0	37	20	0.10	
	Yarmouth ...	29.84	36	NNW	4	c	30.34	+7.0	30	29	-11	NNW	1	0	4	0	41	28	0.23	
GERMANY & HOLLAND.	Cuxhaven ...	29.65	34	NE	7	0	—	—	38	33	-8	NNW	5	0	*	0	41	33	0.04	
	Berlin ...	29.68	29	NNW	2	0	30.09	+4.9	32	31	-8	NNW	4	0	*	0	41	27	0.03	
	Wiesbaden ...	—	—	—	—	0	30.30	+4.9	32	31	-8	NNW	4	0	*	0	41	32	0.04	
	Munich ...	29.92	32	E	2	0	30.25	+4.5	31	29	0	NNW	4	0	*	0	37	30	—	
	The Helder ...	29.91	34	NNW	7	0	30.33	+6.8	37	34	-8	NNW	2	0	2	0	46	34	0.63	
	Brussels (9 a.m.)	—	—	—	—	—	30.36	+5.9	30	30	-7	NNW	1	0	*	0	41	29	0.01	
	Cape Gris Nez	—	—	—	—	—	30.27	+4.5	29	29	-4	0	1	0	*	0	46	28	0.04	
	Paris ...	29.92	40	NNW	3	0	—	—	38	36	-14	E	4	0	3	0	54	36	0.59	
	Brest ...	—	—	—	—	—	30.20	+5.0	37	34	-15	E	6	0	4	0	54	36	0.88	
	Lorient ...	29.90	48	NE	6	0	—	—	—	—	—	—	—	—	—	—	—	—	—	
FRANCE AND SWITZERLAND.	Rochefort ...	29.51	44	NE	3	m	30.09	+2.8	40	40	0	ENE	5	0	*	m	50	39	—	
	Belfort ...	—	36	N	1	0	—	—	37	36	+8	N	1	0	*	b	41	32	—	
	Lyons ...	30.00	33	N	5	f	30.15	+1.9	38	32	+2	NNW	5	0	*	f	36	30	0.04	
	Nice ...	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
	Perpignan ...	29.91	44	N	2	0	30.02	+1.6	36	34	-10	N	2	0	*	b	37	35	—	
	Biarritz ...	29.88	47	NE	3	0	29.93	+0.6	39	36	-5	E	5	0	2	0	35	36	—	
	Corunna ...	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
	Lisbon ...	29.85	33	NNW	5	0	29.91	-0.8	49	48	+2	NNW	5	0	*	0.7	57	47	0.73	
	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	

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, 2<sup>nd</sup> Dec<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 5 to 10 —

— forces 3 to 7 — forces 1 to 4 —

☉ = dead calm.

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

— = Rough. — = High

## MEAN HEIGHT OF THE BAROMETER

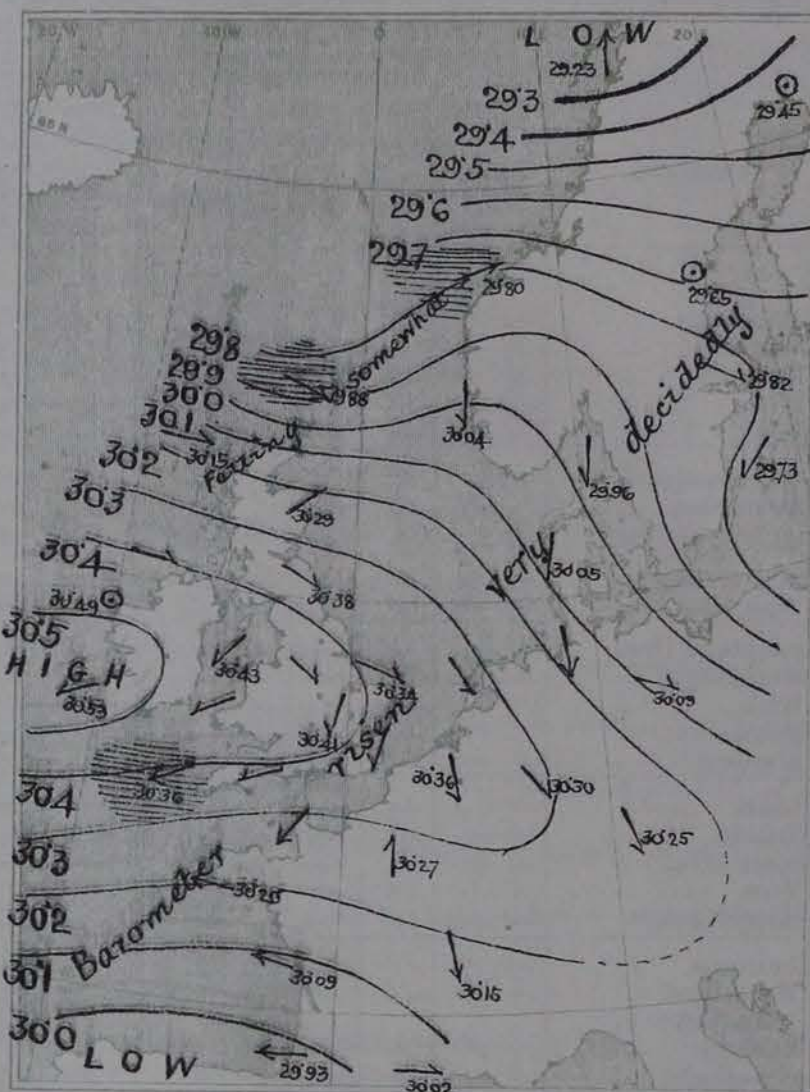
at 8 a.m. for the month of December.

(During the 20 Years 1871–1890.)

### STATIONS.

### MEAN READINGS.

STATIONS.	MEAN READINGS.
Sumburgh Head	29.673
Stornoway	29.705
Wick	29.718
Nairn	29.743
Aberdeen	29.767
Leith	29.807
Shields	29.843
Spurn Head	29.873
York	29.890
Loughborough	29.924
Ardrossan	29.829
Mullaghmore	29.821
Donaghadee	29.848
Holyhead	29.879
Liverpool	29.895
Parsonstown	29.901
Valencia	29.905
Roche's Point	29.912
Pembroke	29.916
Scilly	29.954
Prawle Point	29.970
Jersey	29.985
Hurst Castle	29.978
Dover	29.923
LONDON	29.954
Oxford	29.955
Cambridge	29.941
Yarmouth	29.910



## 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.

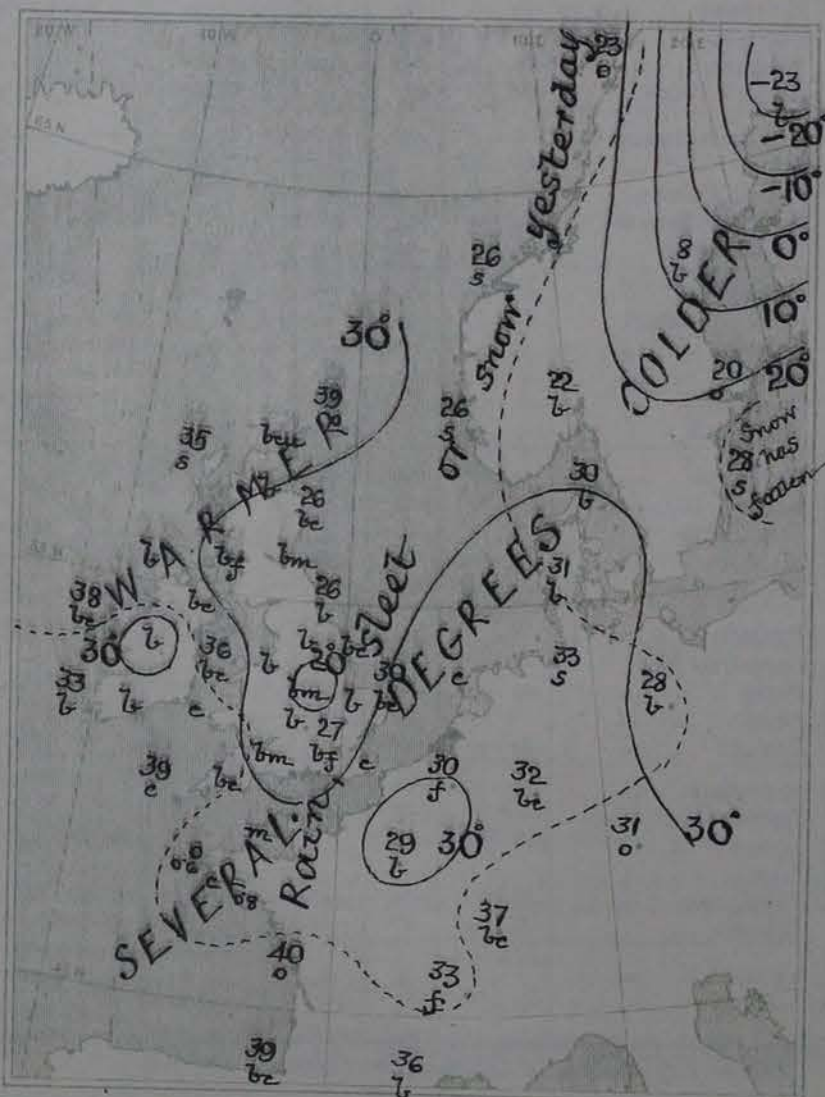
**RAINFALL**—A dotted line separates the districts in which rain has fallen from those where there has been none. Falls of 0.5 in. or more are quoted in figures.

## MEANS OF TEMPERATURE IN SHADE, AND RAINFALL.

(For the month of December.)

STATIONS.	TEMPERATURE				RAINFALL (Inches)
	Daily Max.	Daily Min.	Dry	Wet	
Sumburgh Head	42.6	35.2	39.6	38.1	4.25
Stornoway	43.1	34.2	39.1	38.3	5.63
Wick	42.2	36.7	38.1	36.8	3.10
Nairn	41.9	32.8	37.1	35.6	1.95
Aberdeen	41.0	32.6	36.0	35.2	3.24
Leith	44.0	33.7	38.6	37.0	1.80
Shields	42.9	33.0	38.3	36.9	2.57
Spurn Head	42.4	33.3	38.8	37.7	2.14
York	42.3	32.3	36.1	35.4	2.28
Loughborough	42.7	32.2	36.3	35.4	2.24
Ardrossan	44.5	33.9	40.0	38.7	4.73
Mullaghmore	46.5	37.8	42.2	39.8	4.51
Donaghadee	45.8	36.2	40.2	39.3	2.84
Holyhead	46.4	39.1	42.5	41.1	3.82
Liverpool	48.5	35.6	38.8	37.1	2.30
Parsonstown	44.7	33.1	37.8	36.6	3.04
Valencia	49.7	40.0	44.0	42.4	5.69
Roche's Point	47.0	38.9	42.9	41.5	4.95
Pembroke	46.8	40.3	43.6	42.2	3.99
Scilly	49.5	43.4	47.0	45.1	4.02
Prawle Point	47.0	38.2	42.5	41.1	3.76
Jersey	45.3	39.3	43.1	41.4	3.82
Hurst Castle	45.6	36.3	40.0	39.8	2.78
Dover	44.3	35.9	39.8	38.6	3.00
LONDON	44.0	33.0	37.8	36.7	2.10
Oxford	42.9	33.5	37.0	35.0	2.10
Cambridge	42.8	31.6	36.2	35.5	1.84
Yarmouth	41.9	33.7	37.9	37.0	2.66

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, 30.5 in. and more to 30.3 in. in the eastern part of an anticyclone stretching in from the Atlantic across Ireland, England, and the Channel to Belgium.  
 Lowest, (1) below 29.5 in. over Finmark; (2) below 29.5 in. over the Baltic; (3) below 29.5 in. over the Shetlands; (4) below 29.5 in. in the south of Portugal.  
 Gradients slight except over the most northern parts of our area.  
 Barometer rising decidedly over Ireland, England, and France, falling in the Shetlands and northwest of Norway.

## TEMPERATURE

Highest, 49° at Lisbon, 40° at Rochefort and Jersey, and 39° at Scilly.  
 Lowest, (1) -23°F. at Haparanda, +8° at Helsingfors, 20° at Stockholm; (2) 14° at Loughborough, 21° at Cambridge, 22° at Oxford & Banbury.  
 Frost prevails in almost all parts of the Kingdom and over the inland parts of France and Germany.

## WIND

- (1) W<sup>3</sup> at the northern stations - strong in the north of Scotland and at Limerick, a gale at Christiansund.
- (2) NE<sup>1</sup> to E<sup>1</sup> at the southern stations - strong at the mouth of the Channel and over the Bay of Biscay.
- (3) Calm over the central parts of Ireland and England.
- (4) NW<sup>1</sup>, moderate over Germany and the south of France.

## WEATHER

Unsettled in the far north, with snow at several stations. Fine over the United Kingdom as a whole and over Germany - with dry haze or fog in places; dull in the north and west of France.  
 Snow has fallen generally in the north of our Islands, cold rain and sleet in the south, but the amounts have not been large.

## SEA

Rough in the far north, also at Scilly, moderate or slight elsewhere.

## PROBABLE CHANGES IN SYSTEM NOW PREVALENT

A continuation of cold frosty weather is probable over Ireland and England.

## FORECASTS

For the 24 hours ending at NOON on 3<sup>rd</sup> DEC<sup>r</sup>. 1893.

### DISTRICTS.

### FORECASTS.

- |   |                  |   |
|---|------------------|---|
| 0 | SCOTLAND NORTH   | NW <sup>2</sup> winds, strong to moderate; snow squalls then fine.          |
| 1 | SCOTLAND EAST    | { NW <sup>2</sup> breezes; very cold, a few snow showers                    |
| 2 | ENGLAND N.E.     |   |
| 3 | ENGLAND EAST     | { NW <sup>2</sup> and N <sup>2</sup> winds, light; very cold, fog at times. |
| 4 | MIDLAND COUNTIES |   |
| 5 | ENGLAND SOUTH    | N <sup>2</sup> and NE <sup>2</sup> breezes; very cold, thick fog inland.    |

### DISTRICTS.

### FORECASTS.

- |          |               |   |
|----------|---------------|---|
| 6        | SCOTLAND WEST | Same as N <sup>o</sup> 0                                |
| 7        | ENGLAND N.W.  | Same as N <sup>o</sup> 1 and 2.                         |
| 8        | ENGLAND S.W.  | NE <sup>2</sup> breezes, moderate to light; fine, cold. |
| 9        | IRELAND NORTH | { Very light winds; very cold weather, fog inland.      |
| 10       | IRELAND 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.	P.	WEA.	SEA.		BAR.	THER.		WIND.	P.	WEA.	SEA.
		Dry.	Wet.	Dirac.						Dry.	Wet.	Dirac.			
Skudeanses ...	29.80	23	23	NNE	1	0	3	Valencia ...	26.23	38	35	NNE	5	bc	4
Sumburgh Head ...	29.89	25	24	NNW	4	00p	4	Scilly ...	29.91	45	33	NE	7	c	5
Stornoway ...	26.04	28	28	N	2	0	4	Jersey ...	29.88	44	42	NNW	3	ogm	4
Aberdeen ...	26.00	28	28	NNW	4	00p	3	Hurst Castle ...	29.89	40	37	NNE	4	bcn	4
Shields ...	29.98	30	28	NW	2	0	4	Dungeness ...	29.76	38	37	N	5	0	4
Ardrossan ...	26.10	23	20	N	1	0	0	North Foreland ...	29.69	38	33	N	8	ogm	5
Malin Head ...	26.14	23	23	N	4	00p	3	London ...	29.84	33	36	N	6	bcg	*
Mullaghmore ...								Yarmouth ...	29.78	33	36	N	6	ogm	6
Belmullet ...	26.22	40	35	NNW	4	00p	*	Rochefort ...	29.83	49	47	SE	3	m	*
Holyhead ...	26.06	36	31	NNE	6	0	5								

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

Weather in morning fine and quiet on the southern side of the Mediterranean and several parts of France, as well as in the south of Russia; very changeable and unsettled elsewhere. Rain falling in the Riviera, in several parts of England and in the Baltic Provinces, snow at several stations in the United Kingdom and at Archangel; fog prevalent in many parts of France and Germany. Cold rain and snow showers both over the southern and northern parts of our Islands later, as well as over the northern parts of France and Germany.

Temperature falling decidedly over the United Kingdom, Scandinavia, and North Germany. Morning readings highest 66° at Malta; exceeding 50° at many stations on the shores of the Mediterranean and Adriatic, 52° at Lorient and Brest, 46° on the southeast coast of England. Lowest (1) -8° F. at Archangel, +2° at Naparanda, 13° at Kuopio, 24° at St. Petersburg; (2) 22° at Vain and Stornoway, 24° at Aberdeen, 32° at Cairnstown, 34° at Loughborough; (3) 26° at Limoges, 31° at Lyons and Munich. Hard frost over the British Islands at night, and cold spreading southeastwards.

Wind (1) very light over southeastern and central Europe and variable in direction; (2) N over the British Islands—strong to a gale over the Irish Channel, but SW to S, moderate, over the north of France and the Netherlands; (3) NW in Norway W over the southern parts of Sweden, SW in North Germany, S at Kuopio; (4) a separate cyclonic circulation over the northern parts of the Mediterranean. Blowing hard from N. on our southeast coasts and in Holland later, but subsequently moderating at all our stations.

Barometer highest 30.2 in: and more to 30.0 in: over the Black Sea and southeastern Europe; 30.1 in: and more to 29.9 in: over Ireland, Scotland, and apparently still higher over the adjacent parts of the Atlantic. Lowest 29.3 in: and less over Lapland, 29.4 in: and less near Stockholm, 29.7 in: and less, over Holland and the east of England, over Brittany, and in a depression lying off Marseilles. Rising decidedly over the British Isles, but falling somewhat in Portugal.

### 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 8 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 3<sup>rd</sup> December 1893

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 5 <sup>30</sup> P. and Sea Level.	Dry Bulb.	Dirac.	Force (0 to 12).	Weather.	Reading at 5 <sup>30</sup> P. and Sea Level.	Change since Yester- day Morn.	Dry Bulb.	Wet Bulb.	Change in dry since Yesterday.	Dirac.	Force (0 to 12).	Weather.		Max.	Min.				
		Inch.	°				Inch.	°	°	°							°	Inch.			
SCANDINAVIA.	Haparanda ...	29.45	-15	2	0	b	29.60	+ .15	-9	-10	+ 14	N	4	b	*	b	2	-24	—		
	Hernösand ...	29.67	17	S	4	b	29.70	+ .05	18	16	+ 10	2	0	b	*	b	21	5	—		
	Stockholm ...	29.76	19	WNW	2	b	29.82	+ .06	19	18	+ 1	W	2	b	*	b	25	16	0.04		
	Wisby ...	30.08	27	N	5	m	29.94	+ .21	32	31	+ 1	SSW	4	o	*	m	39	25	0.20		
	Bodö ...	29.43	27	N	4	bc	29.58	+ .35	28	25	+ 5	N	4	bc	*	bc	28	21	—		
	Christiansund...	29.77	30	WNW	8	s	29.89	+ .09	31	30	+ 5	NW	3	bc	*	s	31	26	0.71		
	Skudesnaes ...	29.75	41	W	8	o	29.99	+ .05	24	22	+ 8	NNE	1	o	*	r, o	41	25	—		
	Christiania Fjord (Færiar)	29.87	31	SE	4	s	29.97	?	28	24	+ 6	NNW	4	b	*	s	31	22	—		
	Skagen (The Scaw)	29.94	40	WNW	4	r	29.99	+ .03	33	32	+ 3	NE	2	bc	*	r	43	28	0.32		
	Fanö ...	30.17	39	W	6	b	30.06	+ .01	41	40	+ 10	WSW	3	b	*	b	43	30	0.12		
BRITISH ISLANDS.	Sumburgh Head	29.83	29	N	1	bc	29.80	+ .08	42	42	+ 3	2	0	r	*	r, bc	45	35	0.51		
	Stornoway ...	30.02	46	NW	5	r	29.95	+ .20	48	48	+ 13	W	6	r	*	r	48	35	1.15		
	Wick ...	29.93	42	W	5	o	29.87	+ .20	45	45	+ 13	NW	2	o	*	o	45	30	0.50		
	Nairn ...	30.03	45	WSW	3	b	29.97	+ .26	48	46	+ 18	WSW	3	o	*	b	48	28	0.10		
	Aberdeen ...	30.05	41	SW	5	bcg	30.00	+ .29	45	43	+ 19	SW	2	o	*	g, bcg	45	26	0.07		
	Leith ...	30.23	37	WSW	5	b	30.11	+ .26	48	46	+ 21	WSW	3	bc	*	bc, b	48	25	—		
	Shields ...	30.35	33	WSW	3	c	30.13	+ .25	46	44	+ 20	WSW	4	c	*	c, r	46	23	0.02		
	Spurn Head ...	30.41	33	W	3	b	30.23	+ .13	38	37	+ 8	WSW	4	c	*	b	38	28	—		
	York ...	30.43	29	NNW	1	b	30.26	+ .14	42	41	+ 20	W	2	b	*	b	42	22	—		
	Loughborough	30.49	20	WSW	1	b	30.43	+ .00	27	27	+ 10	ESE	1	c	*	b	35	17	—		
GERMANY & HOLLAND.	Ardrossan ...	30.31	44	WSW	5	bc	30.18	+ .21	49	49	+ 24	WSW	4	om	*	bc	49	25	0.09		
	Malin Head ...	30.38	44	W	5	b	30.24	+ .16	48	47	+ 9	W	5	or	*	b	48	39	0.08		
	Mullaghmore ...	30.48	45	WSW	3	c	30.40	+ .09	49	48	+ 11	WSW	3	c	*	bc, c	49	36	0.02		
	Belmullet ...	30.43	36	SW	2	bc	30.30	+ .13	43	42	+ 9	WSW	3	c	*	bc	43	33	0.02		
	Liverpool (Bidston)	30.48	33	SSW	1	b	30.33	+ .13	43	42	+ 14	WSW	4	o	*	b	43	27	—		
	Holyhead ...	30.47	39	2	0	b	30.38	+ .05	45	43	+ 9	WNW	2	og	*	b	45	36	0.01		
	Parsonstown ...	30.53	32	2	0	b	30.45	+ .05	36	35	+ 14	SW	1	o	*	b	37	21	—		
	Valencia ...	30.58	31	NNE	1	b	30.51	+ .02	46	44	+ 13	W	2	o	*	bc	46	29	—		
	Roche's Point	30.54	32	NNE	2	b	30.50	+ .00	37	35	+ 5	N	1	c	*	b	40	31	—		
	Pembroke (St. Ann's Rd.)	30.48	37	ENE	2	b	30.45	+ .02	38	37	+ 3	NE	1	bcv	*	b	40	33	—		
FRANCE AND BELGIUM.	Scilly ...	30.40	40	NE	5	b	30.45	+ .09	40	34	+ 1	E	2	bc	*	b, bc	41	33	—		
	Prawle Point ...	30.44	30	ENE	3	bc	30.45	+ .04	29	29	+ 1	N	2	b	*	bc, g	37	26	—		
	Jersey (St. Aubin's)	30.35	40	ENE	4	bm	30.41	+ .09	39	35	+ 1	E	3	cm	*	bm	42	36	—		
	Hurst Castle ...	30.45	32	N	3	bm	30.45	+ .04	27	27	+ 0	NE	2	m	*	bm	36	24	—		
	Dungeness ...	30.41	31	NE	3	b	30.39	+ .04	24	24	+ 7	N	2	m	*	bc, b	36	23	—		
	North Foreland	30.45	36	NNE	2	bc	30.39	+ .03	30	28	+ 6	W	2	b	*	bc	38	25	—		
	London ...	30.48	31	N	1	bm	30.42	+ .01	21	20	+ 1	WSW	2	gf	*	gf, bm	35	20	—		
	Oxford ...	30.50	25	N	1	b	30.43	+ .01	24	23	+ 2	SW	2	c	*	b	36	21	—		
	Cambridge ...	30.48	25	NW	1	b	30.39	+ .04	25	24	+ 4	SSW	2	b	*	b	35	19	—		
	Yarmouth ...	30.40	30	WNW	2	bc	30.33	+ .01	29	28	+ 1	W	2	bc	*	bc, sph	35	23	0.02		
PENINSULA.	Cuxhaven ...	30.34	34	SSW	3	s	30.24	?	34	34	+ 1	WSW	4	o	*	s	36	33	0.04		
	Berlin ...	30.01	29	W	4	o	30.27	+ .28	26	26	+ 2	SW	2	b	*	o	32	25	—		
	Wiesbaden ...	?	?	?	?	?	30.29	+ .09	25	24	+ 7	N	1	b	*	?	43	25	—		
	Munich ...	30.28	26	NE	5	b	30.28	+ .03	19	18	+ 12	NE	3	b	*	b	32	19	—		
	The Helder ...	30.46	34	W	1	b	30.33	+ .00	29	35	+ 2	SW	4	b	*	b	39	33	—		
	Brussels (9 a.m.)	*	*	*	*	*	30.43	+ .07	27	26	+ 3	SE	1	b	*	b	37	25	—		
	Cape Gris Nez	30.35	36	SE	1	c	30.34	+ .08	35	34	+ 2	NNE	1	bc	*	c	41	32	0.55		
	Paris ...	30.34	33	NE	2	b	30.35	+ .08	27	26	+ 2	NE	3	b	*	b	41	27	—		
	Brest ...	?	42	ENE	3	c	30.29	?	27	16	+ 11	NE	2	c	*	c	48	?	—		
	Lorient ...	30.23	39	NE	8	b	30.29	+ .09	37	31	+ 0	NE	6	b	*	b	46	34	—		
FRANCE AND BELGIUM.	Rochefort ...	30.08	39	ENE	5	o	30.11	+ .02	32	30	+ 8	NE	5	o	*	o	48	28	—		
	Belfort ...	?	?	?	?	?	?	?	?	?	?	?	?	?	*	?	?	?	—		
	Lyons ...	30.17	37	WSW	1	o	30.22	+ .07	30	28	+ 3	N	1	o	*	o	37	29	—		
	Nice ...	30.01	48	E	1	b	30.06	+ .07	47	41	+ 6	E	1	c	*	b	57	43	—		
	Perpignan ...	30.00	43	S	1	b	30.02	+ .00	44	44	+ 8	SW	2	o	*	b	58	36	—		
	Biarritz ...	29.91	46	E	5	o	29.93	+ .00	41	41	+ 2	E	3	o	*	o	48	29	0.47		
	Corunna ...	*	*	*	*	*	?	?	?	?	?	?	?	?	*	?	?	?	—		
	Lisbon ...	29.76	24	WSW	5	b	29.89	+ .02	50	48	+ 1	NW	4	c	*	b	55	50	0.12		

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, 3<sup>rd</sup> Dec<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

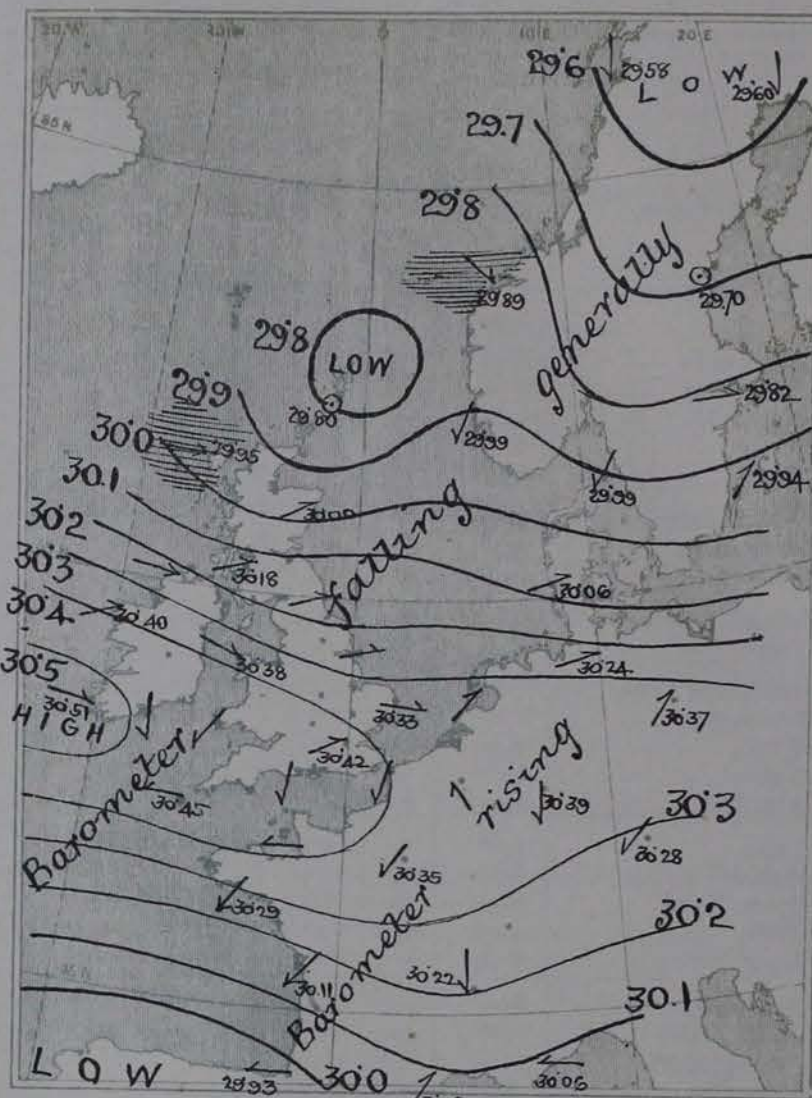
at 8.0 a.m. for the month of December.

During the 20 Years 1871—1890.

### STATIONS.

### MEAN READINGS.

STATIONS.	MEAN READINGS.
Sumburgh Head	29.673
Stornoway	29.705
Wick	29.718
Nairn	29.743
Aberdeen	29.767
Leith	29.807
Shields	29.845
Spurn Head	29.873
York	29.890
Loughborough	29.924
Ardrossan	29.820
Mullaghmore	29.821
Donaghadee	29.848
Holyhead	29.879
Liverpool	29.895
Parsonstown	29.901
Valencia	29.905
Roche's Point	29.912
Pembroke	29.916
Scilly	29.951
Prawle Point	29.970
Jersey	29.985
Hurst Castle	29.958
Dover	29.953
LONDON	29.954
Oxford	29.955
Cambridge	29.941
Yarmouth	29.916



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

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

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

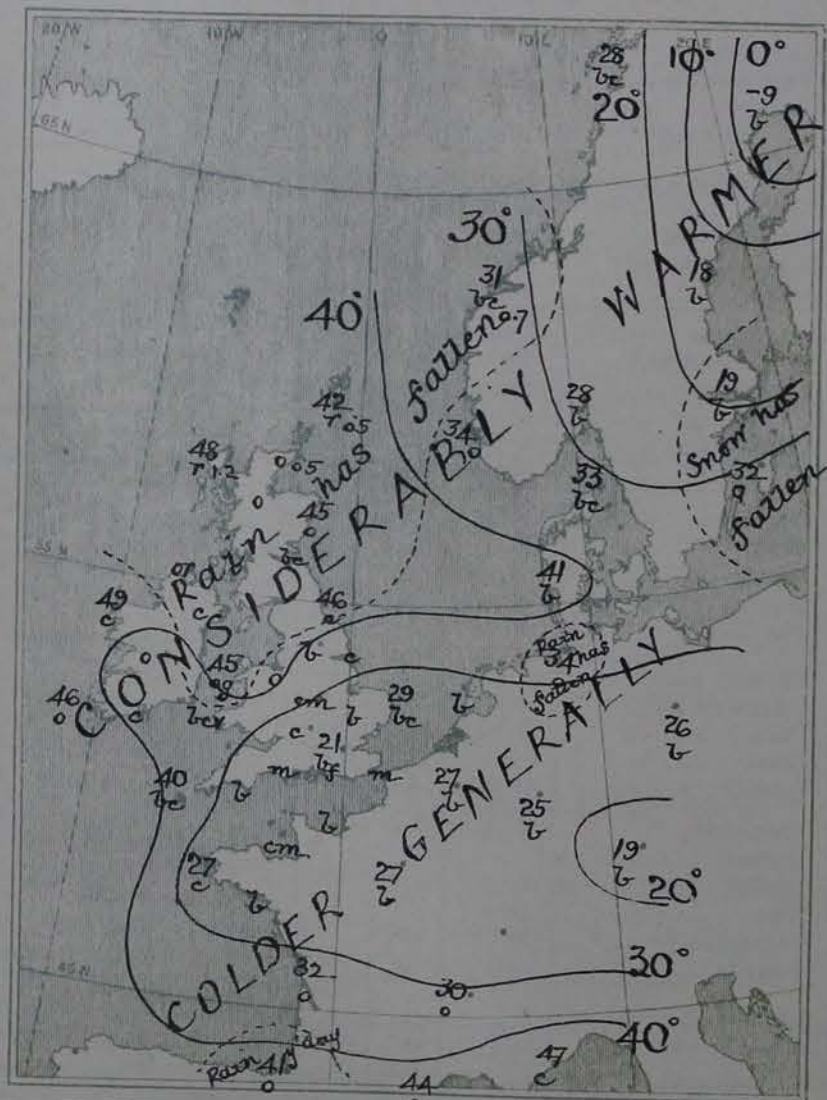
**RAINFALL**—A dotted line separates the districts in which rain has fallen from those where there has been none. Falls of 0.5 in. or more are quoted in figures.

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

(For the month of December.)

STATIONS.	TEMPERATURE.				RAINFALL (Inches.)
	Daily Max.	Daily Min.	Dry. at 8 a.m.	Wet.	
Sumburgh Head	42.6	35.2	39.6	38.1	4.25
Stornoway	43.1	34.2	39.4	38.5	5.63
Wick	42.2	32.7	38.1	36.8	3.10
Nairn	41.9	32.8	37.1	35.6	1.95
Aberdeen	41.9	32.6	36.9	35.2	3.24
Leith	44.0	33.7	38.5	37.0	1.86
Shields	42.9	33.9	38.3	36.9	2.57
Spurn Head	42.4	35.3	38.8	37.7	2.14
York	42.3	32.3	36.4	35.4	2.28
Loughborough	42.7	32.2	36.3	35.4	2.24
Ardrossan	44.5	35.9	40.0	38.7	3.73
Mullaghmore	46.5	37.8	42.2	39.8	4.51
Donaghadee	45.8	36.2	40.2	39.3	2.84
Holyhead	40.4	39.1	42.8	41.1	3.82
Liverpool	43.5	35.6	38.8	37.1	2.59
Parsonstown	44.7	33.1	37.8	36.6	3.04
Valencia	49.7	40.0	44.6	42.4	5.99
Roche's Point	47.9	38.9	42.9	41.5	4.95
Pembroke	40.8	40.3	43.6	42.2	3.99
Scilly	49.5	43.4	47.0	45.1	4.02
Prawle Point	47.0	38.2	42.5	41.1	3.76
Jersey	47.3	39.3	43.1	41.4	3.82
Hurst Castle	45.6	36.3	40.6	39.8	2.78
Dover	44.3	35.9	39.8	38.6	3.00
LONDON	44.0	33.9	37.8	36.7	2.10
Oxford	42.9	33.5	37.0	35.9	2.10
Cambridge	42.8	31.6	36.2	35.5	1.88
Yarmouth	41.9	33.7	37.9	37.0	2.66

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 more over the south of Ireland and adjacent parts of the Atlantic, and exceeding 30.1 ins. in an anticyclonic system spreading across England, the north of France, and the Netherlands to Central Europe.  
 Lowest, 29.6 ins. and less over Lapland, 29.8 ins. and less over the Netherlands, and below 29.9 ins. over the southwestern part of the Spanish Peninsula.  
 Gradients moderate for W and NW winds in the north and east, and for NE winds in the south.  
 Barometer falling in the north, rising over France.

## TEMPERATURE

Highest, 50° at Lisbon, 49° to 48° in the western parts of Ireland and Scotland, 48° at Leith.  
 Lowest, (1) -9° at Hakaranda, +19° at Stockholm, 28° at Bodo and Lander; (2) 21° in London, 24° at Dungeness and Oxford; 19° at Munich, 25° at Wiesbaden, 27° at Paris.  
 It has risen rapidly at the Irish and North British stations, and the rise is apparently spreading southwards.

## WIND

NE at the southern stations - strong over the Bay of Biscay, light over France and the Channel; calm over our southwestern districts; W in the north and northeast and over the North Sea, moderate to fresh in force; NW over Scandinavia, SW in Norway.  
 A NW gale was felt in the northeast of Scotland yesterday afternoon.

## WEATHER

Fine over England, but hazy or foggy in places, dull in Ireland, very rainy in the north of Scotland and at Christiansund. The rainfall during the preceding 24 hours has amounted to more than 1.1 ins. at Stonaway, to 0.7 in. at Christiansund and to half an inch at Lumburgh Head and Wick.

## SEA

Rather rough at Stonaway, slight or smooth elsewhere.

## PROBABLE CHANGES IN SYSTEM NOW PREVALENT

# FORECASTS

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

## DISTRICTS.

## FORECASTS.

## DISTRICTS.

## FORECASTS.

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

None issued

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

None issued.

## WARNINGS

At 2.45 pm yesterday to District 0 "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 ...	29.89	38	37	WSW	8	r	5	Valencia ...	30.55	42	39	L	0	bv	1
Sumburgh Head ...	29.68	43	43	W	7	r	6	Scilly ...	30.41	41	38	NE	5	bc	4
Stornoway ...	30.04	42	42	NW	5	r	5	Jersey ...	30.34	42	39	NE	5	bc	4
Aberdeen ...	30.14	39	34	SW	5	ogw	4	Hurst Castle ...	30.42	36	33	N	3	bm	2
Shields ...	30.38	34	32	SW	2	bm	3	Dungeness ...	30.40	36	34	NNE	3	bc	2
Ardrossan ...	30.36	38	37	WSW	4	c	3	North Foreland ...	30.42	38	36	NNE	2	b	3
Malin Head ...	30.37	44	42	W	5	o	3	London (Westminster) ...	30.45	36	32	NNE	2	bf	4
Mullaghmore ...								Yarmouth ...	30.38	35	34	WNW	2	bmip	4
Belmullet ...	30.49	45	40	W	2	bc	*	Rochefort ...	30.11	39	37	ENE	4	b	*
Holyhead ...	30.47	40	36	NNE	1	b	1								

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

Weather in morning fine and bright over Ireland, England, France, North Germany, and the north of Sweden; as well as in some parts of Italy; cloudy and unsettled elsewhere; cold rain or snow falling in the north of Scotland, also over Norway, and several parts of the Baltic; low dry fog prevalent at some English stations. Heavy rain later in the Hebrides, the Shetlands, and Norway, and a little snow over Russia. A considerable fall of rain at Madrid.

Temperature fallen rapidly over England and Ireland, risen in Scotland. Morning readings highest 62° at Malta, and exceeding 50° in the far south only. Lowest -23° at Haparanda, +8° at Helsingfors and much below the freezing point over Scandinavia, England and Ireland. Rising to 50° or nearly so over Scotland and the north of Ireland later, but not touching 40° over the south and east of England; exceeding 60, however, over Algeria and the south of Italy.

Wind light and anticyclonic over the greater part of the British Isles, but strong W in the far north, and blowing a gale from WSW at Christianund; a N<sup>3</sup> gale blowing over the Baltic and a W<sup>3</sup> gale at Renslow. Fresh to strong breezes from E over the Bay of Biscay. A W to NW gale felt over the Shetlands and north of Scotland later and the W wind spreading southwards to the north of England.

Barometer highest 30.5 ins: and more to 30.1 ins: in the eastern part of an anticyclone spreading eastwards from the Atlantic, over Ireland and England to the north of France and western Germany. Lowest 29.3 ins: and less, over Lapland, 29.5 ins: and less, in a small depression near Riga, 29.9 ins: and less over Corsica and the west of Italy. Falling at our northern stations later, rising in the south. Anticyclone moving southwards a little.

### 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. 4<sup>TH</sup> DECEMBER. 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.	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).	Weather.	Max.	Min.			
		Inch.	°				Inch.	°	°	°							°	Inch.			
SCANDINAVIA.	Haparanda	30.06	-11	N	2	b	30.32	+72	-9	-10	0	N	2	b	*	b	-6	-15	—		
	Hernösand	29.97	22	N	4	o	30.32	+62	13	11	-5	E	4	o	*	o	37	12	—		
	Stockholm	30.03	18	N	0	b	30.15	+33	14	13	-5	E	0	b	*	b	23	12	—		
	Wisby	30.10	30	WNW	4	bc	30.08	+14	24	23	-8	SE	4	b	*	bc	36	24	—		
	Bodö	29.96	18	ENE	6	b	30.15	+37	18	14	-10	ENE	4	b	2	b	28	14	—		
	Christiansund	29.93	28	ENE	4	b	29.97	+08	25	28	-6	ENE	4	b	3	b	32	25	0.08		
	Skudesnaes	29.82	36	SE	6	ST	29.88	-11	37	36	+3	SE	4	T	4	ST	37	34	—		
	Christiania Fjord (Færder)	30.01	29	WNW	2	b	30.03	+06	26	24	-2	NNE	3	o	1	b	30	23	—		
	Skagen (The Scaw)	29.95	26	SW	2	T	29.86	-13	30	30	-3	E	4	3	o	T	36	28	—		
	Fanö	29.92	44	SW	4	T	29.86	-20	40	39	-1	NW	4	T	*	T	44	37	0.09		
BRITISH ISLANDS.	Sumburgh Head	29.76	45	NW	3	C	29.97	+17	41	38	-1	N	3	C	4	C	47	39	0.22		
	Stornoway	30.01	47	NW	4	C	30.13	+18	49	49	+1	NW	5	o	3	o.c	49	42	0.07		
	Wick	29.91	45	NW	2	o	30.05	+18	44	43	-1	N	2	o	2	o	48	40	0.08		
	Nairn	30.02	47	WNW	2	T	30.11	+14	45	43	-3	WNW	1	o	1	T	49	43	0.08		
	Aberdeen	30.01	47	WNW	3	C	30.10	+10	44	42	-1	NW	3	odg	3	C. b	50	44	0.01		
	Leith	30.06	46	WNW	2	b	30.12	+01	40	46	0	W	2	o	*	b	50	43	—		
	Shields	30.08	47	WNW	4	C	30.11	-02	46	44	0	WNW	2	o	3	bc	49	41	—		
	Spurn Head	30.15	44	W	4	C	30.13	-10	41	40	+3	WNW	3	C	3	T.C	44	38	0.02		
	York	30.20	46	SE	2	o	30.17	-03	43	41	+1	W	1	o	*	o	48	40	0.07		
	Loughborough	30.29	32	WNW	2	o	30.22	-27	42	41	+15	W	1	C	*	o	45	26	0.02		
GERMANY & HOLLAND.	Ardrossan	30.14	47	WNW	3	C	30.18	0.0	50	50	+1	W	2	o	3	C	50	47	0.01		
	Malin Head	30.23	47	WNW	5	C	30.30	+06	48	48	0	NW	4	om	2	o.cdf	49	48	0.02		
	Mullaghmore	30.36	51	W	4	o	30.45	+03	49	48	0	NW	2	b	*	o	51	48	0.03		
	Belmullet	30.24	49	WNW	2	bc	30.25	-05	49	49	+6	NW	5	C	3	bc	49	43	0.01		
	Donaghadee	30.24	49	WNW	2	bc	30.25	-05	49	49	+6	NW	5	C	3	bc	49	43	0.01		
	Liverpool (Bldston)	30.25	45	W	3	o	30.24	-09	46	45	+3	W	3	fog	1	o	46	41	0.05		
	Holyhead	30.21	48	W	2	o	30.28	-10	49	49	+4	NW	4	fog	4	C.og	49	45	0.15		
	Parsonstown	30.29	47	SW	1	o	30.40	-05	48	47	+12	SW	1	og	*	o	49	47	—		
	Valencia	30.30	49	WNW	4	bc	30.49	-02	50	49	+4	WNW	3	og	3	bc	51	46	—		
	Roche's Point	30.46	47	NW	3	bc	30.42	-08	49	47	+12	WNW	4	o	4	bc	49	37	—		
FRANCE AND BELGIUM.	Pembroke (St. Ann's Hd.)	30.37	47	NW	3	C	30.33	-12	50	40	+12	NW	4	od	3	C	50	38	0.02		
	Scilly	30.40	48	N	4	C	30.38	-07	51	50	+11	WNW	3	C	2	C	51	35	—		
	Prawle Point	30.29	37	WNW	1	b	30.33	-12	43	42	+14	WNW	2	bc	1	b	47	28	—		
	Jersey (St. Aubin's)	30.37	41	NE	3	b	30.29	-12	49	47	+10	NW	2	omf	2	b. om	49	34	0.02		
	Hurst Castle	30.38	36	WNW	2	b	30.28	-17	41	40	+14	WNW	3	bc	1	bc	41	26	—		
	Dungeness	30.30	35	WNW	2	bc	30.19	-20	38	37	+17	WNW	3	C	2	C. bc	44	28	0.01		
	North Foreland	30.27	36	W	2	b	30.17	-22	41	40	+11	W	2	cm	2	b	41	30	—		
	London	30.29	34	WNW	2	bc	30.22	-20	39	38	+18	SW	1	o	*	bc. c. fog	39	20	—		
	Oxford	30.32	37	WNW	3	o	30.25	-17	39	39	+15	WNW	2	og	*	C. o	40	24	—		
	Cambridge	30.29	39	SW	4	o	30.20	-19	42	41	+1	W	3	o	*	o	43	23	0.01		
PENINSULA.	Yarmouth	30.22	36	W	2	o	30.13	-20	40	39	+11	WNW	2	C. f	3	o	40	28	0.06		
	Cuxhaven	30.15	41	SW	4	o	29.35	-29	43	43	+9	W	2	bc	*	o	43	34	0.06		
	Berlin	30.26	32	SW	3	o	30.06	-37	31	30	+5	SW	4	o	*	o. o	34	26	—		
	Wiesbaden	30.24	*	*	*	*	30.24	-15	22	22	-3	NNE	1	bc	*	*	32	21	—		
	Munich	30.28	20	E	2	b	30.19	-09	14	13	-5	S	1	b	*	b	27	12	—		
	The Helder	30.21	43	WNW	4	T	30.11	-22	45	44	+6	WNW	1	C	2	T	46	39	0.12		
	Brussels (9 a.m.)	*	*	*	*	*	30.19	-24	34	33	+7	SW	2	T	*	b. o	36	28	—		
	Cape Gris Nez	*	41	*	1	o	30.15	-19	43	42	+8	W	2	o	2	o	43	35	0.04		
	Paris	30.23	30	NNE	2	b	30.28	-07	26	26	-1	WNW	1	o	*	b	37	21	—		
	Brest	*	40	ENE	2	b	*	*	46	46	+9	2	o	o	2	b	46	34	—		
FRANCE AND BELGIUM.	Lorient	30.31	39	NNE	6	b	*	*	43	40	+6	NNE	3	T	2	b	46	34	—		
	Rochefort	30.14	34	E	6	o	30.18	+07	28	27	-4	ENE	5	b	*	o	37	25	—		
	Belfort	*	35	E	3	b	*	*	23	23	-	E	3	b	*	b	41	19	—		
	Lyons	30.22	2	N	*	*	30.22	0.0	28	25	-2	N	1	m	*	ST	32	28	—		
	Nice	30.06	48	2	o	T	29.98	-07	45	43	-2	E	1	C	3	T	32	43	0.08		
	Perpignan	29.98	50	2	o	o	30.03	+01	46	46	+2	NW	2	T	*	o	58	44	0.35		
	Biarritz	30.20	44	ENE	3	f	30.12	+19	45	39	+4	NE	2	f	2	f	46	37	0.12		
	Coranna	30.00	*	*	*	*	30.04	+15	45	42	-5	NNE	4	b	*	b. b	57	43	—		
	Lisbon	30.00	48	*	*	*	30.04	+15	45	42	-5	NNE	4	b	*	b. b	57	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 Monday, 4<sup>th</sup> Dec<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

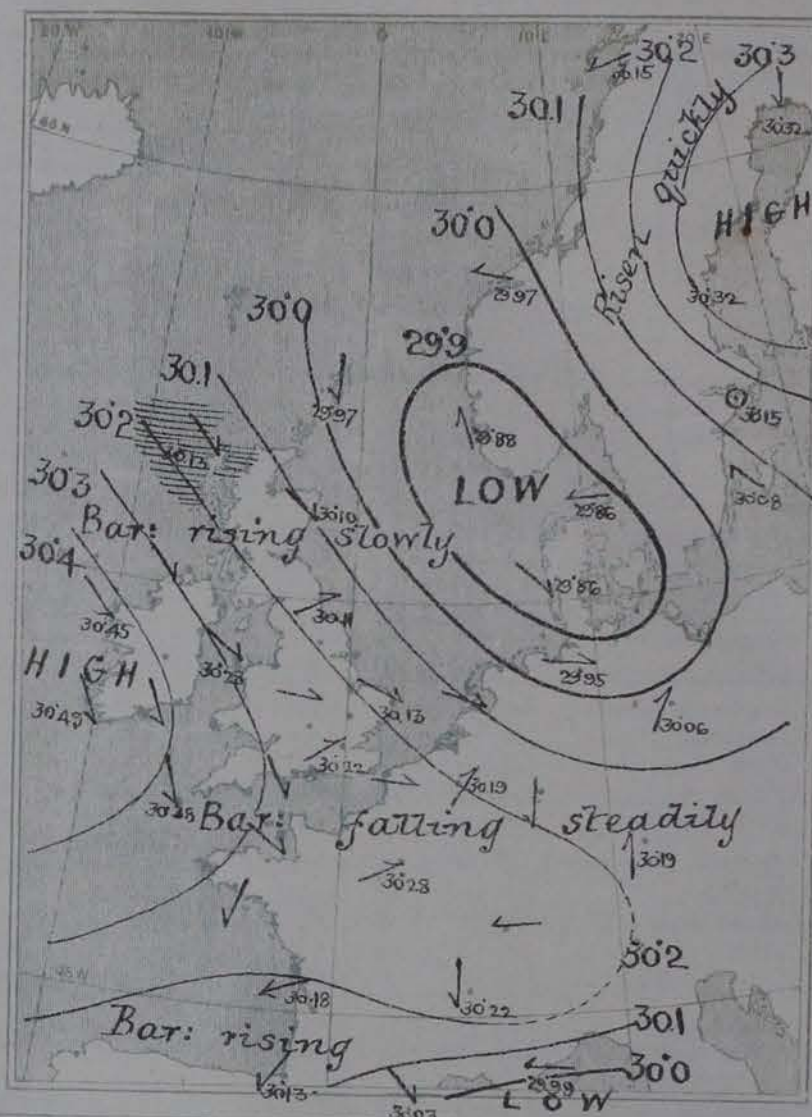
at 8 a.m. for the month of December.

During the 20 Years 1871—1890.

#### STATIONS.

#### MEAN READINGS.

STATIONS.	MEAN READINGS.
Sumburgh Head	29.873
Stormoray	29.705
Wick	29.718
Nairn	29.743
Aberdeen	29.787
Leith	29.807
Shields	29.845
Spurn Head	29.873
York	29.890
Loughborough	29.924
Ardrossan	29.820
Mullaghmore	29.821
Donaghadee	29.848
Holyhead	29.879
Liverpool	29.865
Parsonstown	29.901
Valencia	29.905
Roche's Point	29.912
Pembroke	29.916
Silly	29.951
Prawle Point	29.970
Jersey	29.985
Hurst Castle	29.958
Dover	29.953
LONDON	29.954
Oxford	29.955
Cambridge	29.941
Yarmouth	29.916



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

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

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

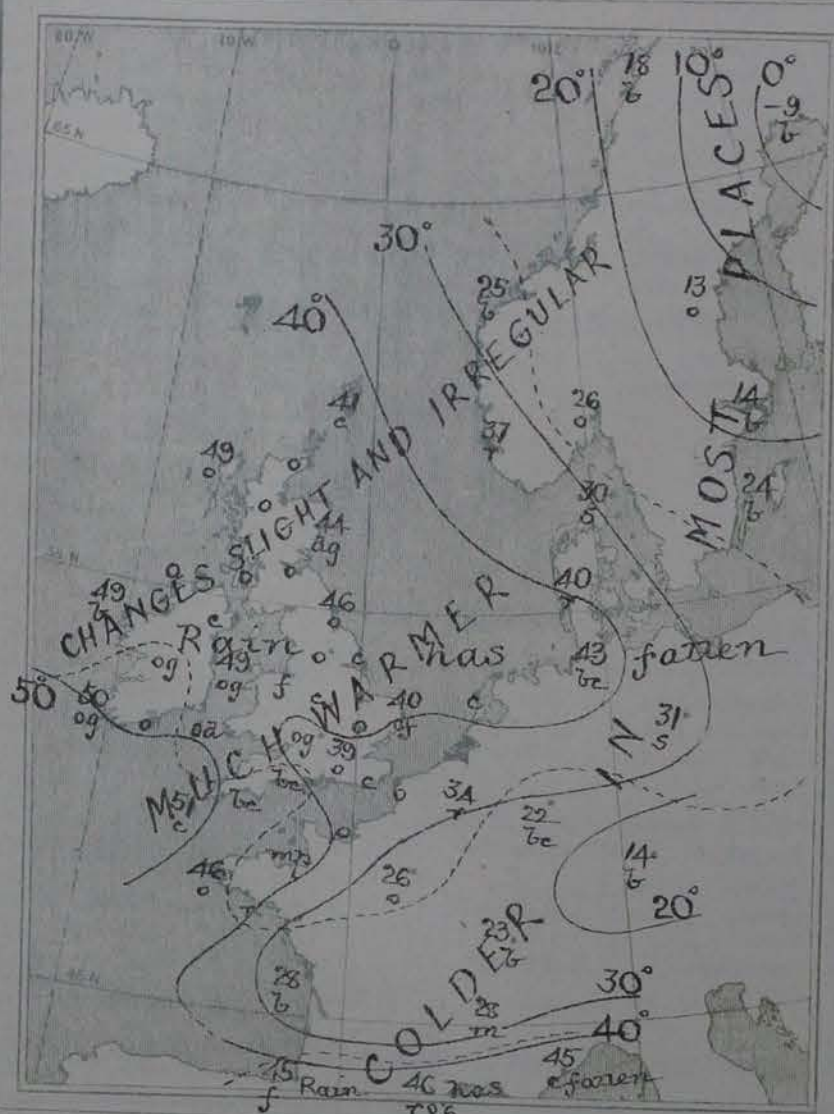
**RAINFALL**—A dotted line separates the districts in which rain has fallen from those where there has been none. Falls of 0.5 in. or more are quoted in figures.

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

(For the month of December.)

STATIONS.	TEMPERATURE				RAINFALL. (Inches.)
	Daily Max.	Daily Min.	Dry.	Wet.	
Sumburgh Head	42.6	35.2	39.6	38.1	1.25
Stormoray	43.1	34.2	39.1	38.5	5.03
Wick	42.2	32.7	38.1	36.8	3.10
Nairn	41.9	32.8	37.1	35.6	1.95
Aberdeen	41.9	32.6	36.9	35.2	3.24
Leith	44.0	33.7	38.5	37.0	1.86
Shields	42.9	33.9	38.3	36.9	2.05
Spurn Head	42.4	35.3	38.8	37.7	2.14
York	42.3	32.3	36.4	35.4	2.28
Loughborough	42.7	32.2	36.3	35.1	2.24
Ardrossan	44.5	35.0	40.0	38.7	3.79
Mullaghmore	46.5	37.8	42.2	39.8	4.51
Donaghadee	45.8	36.2	40.2	39.3	2.84
Holyhead	46.4	39.1	42.8	41.1	3.82
Liverpool	43.5	35.6	38.8	37.1	2.50
Parsonstown	44.7	33.1	37.8	37.0	3.91
Valencia	49.7	40.0	41.6	42.4	6.99
Roche's Point	47.9	38.9	42.9	41.5	4.95
Pembroke	46.8	40.3	43.6	42.2	3.09
Silly	49.5	43.4	47.0	45.1	4.02
Prawle Point	47.0	38.2	42.5	41.1	3.76
Jersey	47.3	39.3	43.1	41.4	3.82
Hurst Castle	45.6	36.3	40.6	39.8	2.78
Dover	44.3	35.9	39.8	38.6	3.09
LONDON	44.0	33.9	37.8	36.7	2.10
Oxford	42.9	33.5	37.0	35.9	2.10
Cambridge	42.8	31.6	36.2	35.5	1.88
Yarmouth	41.9	33.7	37.9	37.0	2.00

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, { (1) 30.4 in. and more in the west of Ireland, and exceeding 30.2 in. in a "ridge" spreading thence to France and the southwest of Germany; (2) 30.3 in. and more to 30.0 in. in a second system lying over Northern Europe.  
Lowest, 29.9 in. and less, in a shallow depression lying over Denmark and the south of Norway.  
Gradients, moderate to slight. Barometer rising fast in the extreme north, but inclined to fall at our southern stations.

## TEMPERATURE

Highest, 48° to 51° at the stations in the west of our Islands, 39° to 43° over Central England.  
Lowest, (1) -9° at Haparanda, +14° at Stockholm, 18° at Riga; (2) 14° at Munich, 22° at Wiesbaden, 23° at Belfast, and 26° at Paris.  
 It has risen very decidedly over the southern half of England, but fallen a little in France.

## WIND

(1) W<sup>ly</sup> to NW<sup>ly</sup>, light to moderate, over the British Islands, NE<sup>ly</sup> over the Bay of Biscay.  
 (2) W<sup>ly</sup>, light, over Holland, SW<sup>ly</sup> over Germany, S<sup>ly</sup> or SE<sup>ly</sup> over Scandinavia.

## WEATHER

Very dull and damp over the United Kingdom, with fog or mist at several stations, and drizzling rain at Aberdeen and Pembroke, showers at Jersey; fine and bright over Scandinavia.  
 Snow is falling at the Bow, rain at Janö, heavy rain at Herpynan.

## SEA

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

## PROBABLE CHANGES IN SYSTEM NOW PREVALENT

No decided change is indicated at present.

## FORECASTS

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

1893.

### DISTRICTS.

### FORECASTS.

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

NW<sup>ly</sup> winds, moderate or light;  
 cold rain or sleet at times.  
 W<sup>ly</sup> and NW<sup>ly</sup> airs; dull, damp, foggy  
 at times, slight misty showers.

### DISTRICTS.

### FORECASTS.

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

Same as No 2 to 5.

NW<sup>ly</sup> and N<sup>ly</sup> winds, dull, misty,  
 or foggy.

### 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.		
Skudesnaes ...	29.95	35	33	SE	6	8	4	Valencia ...					
Sumburgh Head ...								Scilly ...					
Stornoway ...	2	48	48	W	4	9	4	Jersey ...	30.29	41	38	ENE	8
Aberdeen ...								Hurst Castle ...					
Shields ...								Dungeness ...	30.32	40	36	NW	2
Ardrossan ...								North Foreland ...	30.30	39	37	W	2
Malin Head ...	30.19	49	49	W	5	od	3	London ...					
Mullaghmore ...	30.36	50	49	W	4	0	*	Yarmouth ...					
Belmullet ...	30.32	48	46	W	4	C	3	Rocheport ...	30.09	35	33	E	6
Holyhead ...													

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

*Weather* fine over the greater part of England and the Continent, but dull in Ireland and Scotland, with rain at Sumburgh Head, Stornoway and Malin Head. Dull also over Spain, the south of France and the northern and extreme southern parts of Russia, with rain at Kislovodsk and snow at Odessa. Sky clearing later in the south of Ireland, but dull weather spreading to nearly all parts of St. Britain, with slight rain in many places. Considerable amounts of rain falling in the south of France.

*Temperature* risen rapidly in the north and northwest of our Islands and to a less extent over Scandinavia and northern Russia, but fallen in most other localities. Morning readings, highest, 65° at Spaa, 60° at Malta, 58° at La Calle, and 57° at Algiers, above 50° at several of the Mediterranean stations and very little below that point in Scotland and the north of Ireland. Lowest—(1) -9° at Haparanda, +5° at Archangel, and 11° at Uleaborg; (2) 21° in London, and 24° at Dungeness and Oxford; below the freezing point over the greater part of England and northern and central Europe. Rising during day to 50° or a little above at several of our own western and northern stations, but remaining below 40° in the southeast of England, as well as in some parts of France.

*Wind* light to fresh from the W. over all the more northern and eastern parts of our Islands; SW. over Denmark, the Baltic, Finland and north Germany, with a gale at Memel; NW. or N. over Norway and the north of Sweden as well as in the south of Russia; E. or NE. over the southwest of England and also over France and northern Italy; N. in the south of Italy, variable in Spain, S. in Algiers. Subsequently veering to the NW. in many parts of our Islands, no important change occurring elsewhere.

*Barometer* highest 30.5 ins. and upwards in the south of Ireland; 30.3 ins. and upwards in a long band stretching from the Atlantic across Ireland, England and the north of France to northern Austria and the southwest of Russia. Lowest 29.6 ins. and less over the N.W. parts of Scandinavia and Russia, 29.8 ins. and less in a small shallow depression near the Shetlands; 29.9 ins. and less in another system over the south of Portugal. No important change occurring during day.

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

FROM THE 26<sup>TH</sup> NOV. TO 2<sup>ND</sup> DEC. 1893.

In the course of this week some large depressions have advanced over northern Europe from the Atlantic, and then travelled southwards towards Russia. In the meanwhile their secondary systems have travelled from NW. to SE. directly over the North Sea and British Islands. The wind has consequently varied greatly between SW. and N. (through W), the alternations of temperature have been large, and while a great deal of rain has been reported in the extreme north of our Islands the falls elsewhere have been scanty, and have often consisted of snow.

At the close of the week pressure had recovered rapidly from one of these disturbances, anticyclonic conditions were prevalent over Ireland and England, where a hard frost prevailed, with dry fog in places.

### 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 TUESDAY, 5<sup>TH</sup> DECEMBER, 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 Yester- day Morn.	Dry Bulb.	Wet Bulb.	Change in dry since Yesterday.			Dir.	Force (0 to 12).		Max.	Min.
		Ins.	°				Ins.	°	°	°						°	Ins.			
SCANDINAVIA.	Haparanda ...	30.56	-9	2	0	b	30.53	+2.1	1	0	+10	NNW	2	0	*	b	1	-20	—	
	Hernösand ...	30.54	31	N	2	c	30.53	+2.1	12	11	-1	2	0	0	*	c	31	9	—	
	Stockholm ...	30.53	20	NE	2	b	30.49	+3.2	22	21	+8	NE	2	0	*	b	20	10	0.04	
	Wisby ...	30.22	31	SE	6	b	30.35	+2.7	27	26	+3	E	4	bc	*	b	24	10	0.12	
	Bodö ...	30.26	20	ENE	4	b	30.41	+2.6	25	21	+7	E	6	0	*	b	25	14	—	
	Christiansund...	30.18	29	SE	3	b	30.04	+0.7	36	32	+11	SE	4	0	3	b	36	25	—	
	Skudesnaes ...	30.26	37	ESE	4	0	30.34	+0.6	35	32	-2	SE	6	0	4	0.7	37	32	—	
	Christiania Fjord (Fæder)	30.36	25	NNE	6	c	30.46	+0.3	22	21	-4	NNE	2	0	1	c	27	21	—	
	Skagen (The Scaw)	30.28	28	E	4	b	30.41	+0.5	27	27	-3	E	1	bc	0	b	32	25	—	
	Fanö ...	30.10	35	NE	4	c	30.30	+0.44	35	33	-5	NE	2	c	*	c	40	34	0.04	
BRITISH ISLANDS.	Sumburgh Head	30.12	37	2	0	0	29.98	+0.1	45	44	+4	SW	2	0	4	c.0	46	35	0.06	
	Stornoway ...	30.23	48	NW	4	0	30.00	-1.3	47	46	-2	SW	4	0	4	0	50	40	0.05	
	Wick ...	30.18	44	NW	2	0	30.03	-0.2	44	43	0	S	2	c	2	0	46	39	0.05	
	Nairn ...	30.19	48	2	0	c	30.10	-0.1	45	43	0	NW	1	b	1	c	50	40	—	
	Aberdeen ...	30.22	43	NW	1	0.79	30.18	+0.04	39	38	-5	SW	2	cm	2	0.079	45	39	0.16	
	Leith ...	30.23	47	W	2	T	30.25	+1.3	44	43	-4	NW	1	cm	*	T	51	40	0.04	
	Shields ...	30.21	45	NE	1	0	30.29	+1.8	43	42	-3	SW	2	odf	3	d.0	49	41	0.01	
	Spurn Head ...	30.17	43	NNW	3	0	30.32	+1.9	39	38	-2	NNW	2	0	2	cm	45	38	0.01	
	York ...	30.21	44	W	1	T	30.35	+1.8	37	36	-6	SW	1	f	*	T	49	32	0.02	
	Loughborough	30.23	47	N	2	0	30.38	+1.6	30	30	-12	SE	1	f	*	0	40	28	0.01	
GERMANY & HOLLAND.	Ardrossan ...	30.26	50	NNW	2	bc	30.26	+0.0	47	46	-3	SW	2	c	2	c. bc	51	46	—	
	Malin Head ...	30.31	48	NW	3	0	30.23	-0.7	46	45	-2	SW	4	of	2	0	49	46	0.07	
	Mullaghmore ...	30.43	47	NW	2	bc	30.30	-1.3	49	48	0	SW	2	0	*	bc	51	44	0.02	
	Belmullet ...	30.31	49	NW	3	b	30.34	+0.3	42	42	-7	NNW	4	c	2	b	51	39	—	
	Donaghadee ...	30.26	46	NW	3	c	30.36	+1.2	44	43	-2	NNW	2	0	2	c	47	43	0.03	
	Liverpool (Bidston)	30.28	49	NW	4	b	30.36	+0.8	47	46	-2	NNW	2	c	2	og. b	50	47	0.01	
	Holyhead ...	30.43	47	NW	1	0	30.44	+0.4	43	42	-5	SW	1	0	*	0	—	—	—	
	Parsonstown ...	30.49	50	NNW	2	cm	30.49	0.0	49	46	-1	W	3	cm	4	bc. cm	52	45	0.10	
	Valencia ...	30.43	48	NNW	3	b	30.48	+0.6	45	44	-4	NW	3	cm	3	b	51	43	—	
	Roche's Point	30.31	49	NNW	4	0	30.39	+0.6	48	46	-2	NNW	5	og	2	0	50	47	0.04	
FRANCE AND BELGIUM.	Scilly ...	30.31	52	NNW	3	c	30.35	-0.3	51	49	0	NNE	4	c	3	cm. p. c	52	46	0.01	
	Prawle Point ...	30.26	48	N	2	0	30.38	+0.5	43	43	0	ENE	2	dq	1	0	49	41	0.02	
	Jersey (St. Aubin's)	30.21	50	NNW	3	0	30.34	+0.5	44	41	-5	NE	3	blm	3	c. ogm. d	52	43	0.02	
	Hurst Castle ...	30.20	48	NNW	2	ogm	30.36	+0.8	35	34	-6	NNE	3	b	2	cmg	48	33	—	
	Dungeness ...	30.10	43	NNW	2	b	30.30	+1.1	40	39	+2	NNE	3	c	2	m. bf	44	36	—	
	North Foreland	30.11	44	NW	2	cm	30.32	+1.5	44	41	+3	NE	4	og	5	cm	44	40	—	
	London ...	30.17	45	NW	2	ogm	30.34	+1.2	41	38	+2	NNE	1	cmg	*	ond. c. b	47	38	—	
	Oxford ...	30.25	46	W	1	0	30.38	+1.3	33	33	-6	NNW	1	cm	*	og. d	46	32	0.03	
	Cambridge ...	30.17	45	W	5	0	30.37	+1.7	37	37	-5	NNW	1	0	*	0	47	35	—	
	Yarmouth ...	30.08	43	NNW	2	bc	30.30	+1.7	42	41	+2	NNE	3	c	4	c. f. bc	44	39	0.03	
PENINSULA.	Cuxhaven ...	29.89	33	W	2	c	30.24	+2.3	37	36	-6	NNE	3	c	*	c	43	36	—	
	Berlin ...	29.98	33	SW	2	0	30.11	+0.5	34	34	+3	2	0	f	*	0	34	31	0.16	
	Wiesbaden ...	30.16	32	SW	2	0	30.16	-0.8	32	32	+10	2	0	f	*	0	32	22	0.16	
	Munich ...	30.05	22	SW	2	0	30.10	-0.9	21	21	+7	W	2	f	*	0	25	14	—	
	The Helder ...	30.07	43	N	5	0	30.32	+2.1	41	38	-4	NE	4	c	3	0	45	39	0.16	
	Brussels (9 a.m.)	30.09	44	NW	2	c	30.23	+0.8	44	41	+1	NE	4	0	4	c	46	41	0.12	
	Cape Gris Nez	30.15	36	S	2	0	30.18	-1.0	37	36	+11	N	3	0	*	0	37	26	0.04	
	Paris ...	30.25	50	NE	2	f	30.29	0.0	49	49	+3	NNE	2	0	3	f	52	43	0.04	
	Brest ...	30.20	50	NNW	4	c	30.29	0.0	48	47	+5	N	4	0	2	c	52	39	—	
	Lorient ...	30.20	40	ENE	3	0	30.20	+0.2	41	41	+13	NNE	3	c	*	0	2	37	0.03	
FRANCE AND BELGIUM.	Rocheport ...	30.21	27	N	1	b	30.12	-1.0	27	27	-1	NW	1	0	*	b	30	24	0.04	
	Belfort ...	29.95	47	E	1	0	29.85	-1.4	37	37	-6	E	1	b	1	0	32	37	—	
	Nice ...	29.99	48	NW	4	b	30.01	-0.2	45	38	-1	NW	5	0	*	b	53	42	0.16	
	Perpignan ...	30.07	47	NE	3	0	30.15	+0.8	41	37	-4	ENE	2	0	2	0	47	36	—	
	Biarritz ...	30.06	37	NNW	3	*	30.15	+1.1	40	42	0	NNE	4	b	*	b*	54	40	—	
	Corunna ...	30.06	37	NNW	3	*	30.15	+1.1	40	42	0	NNE	4	b	*	b*	54	40	—	
Lisbon ...	30.06	37	NNW	3	*	30.15	+1.1	40	42	0	NNE	4	b	*	b*	54	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 Tuesday, 5<sup>th</sup> Dec: 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

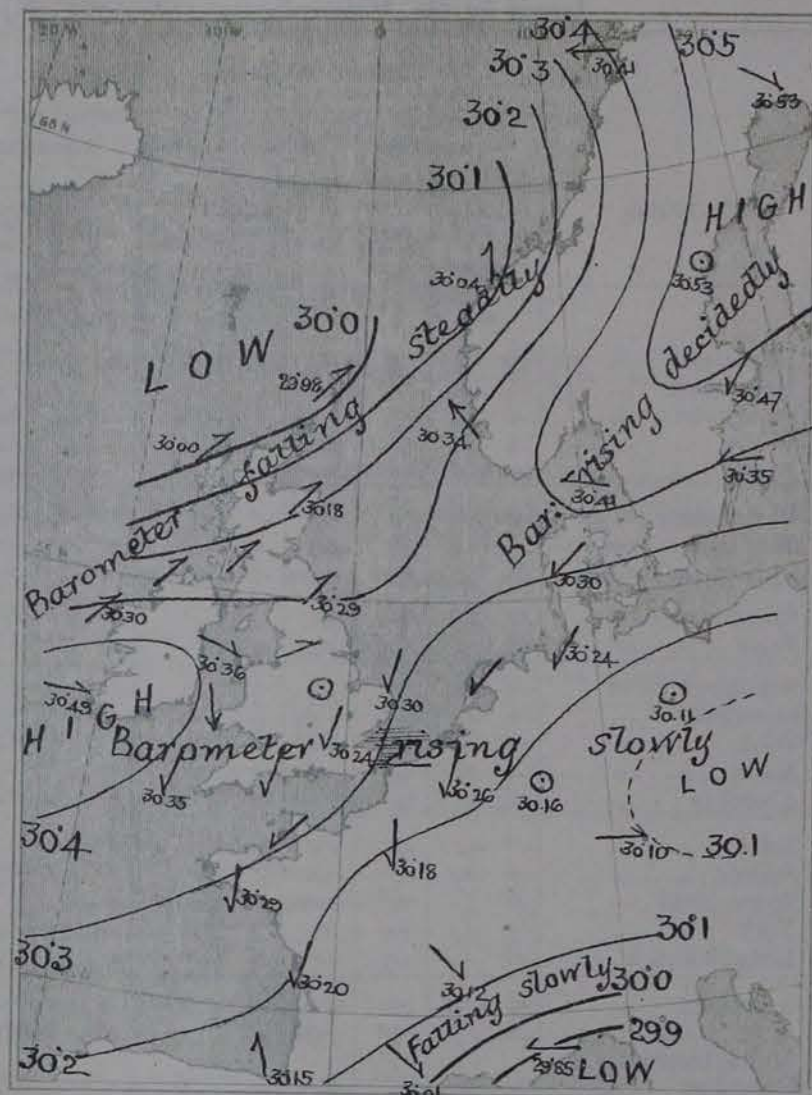
at 8.0 a.m. for the month of December.

During the 20 Years 1871-1890.

#### STATIONS.

#### MEAN READINGS.

STATIONS.	MEAN READINGS.
Sumburgh Head	29.673
Stornoway	29.705
Wick	29.718
Nairn	29.743
Aberdeen	29.767
Leith	29.807
Shields	29.845
Spurn Head	29.873
York	29.890
Loughborough	29.924
Ardrrossan	29.829
Mullaghmore	29.821
Donaghadee	29.848
Holyhead	29.879
Liverpool	29.895
Parsonstown	29.901
Valencia	29.905
Roche's Point	29.912
Pembroke	29.916
Scilly	29.951
Prawle Point	29.979
Jersey	29.985
Hurst Castle	29.985
Dover	29.953
LONDON	29.954
Oxford	29.955
Cambridge	29.941
Yarmouth	29.916



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

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

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

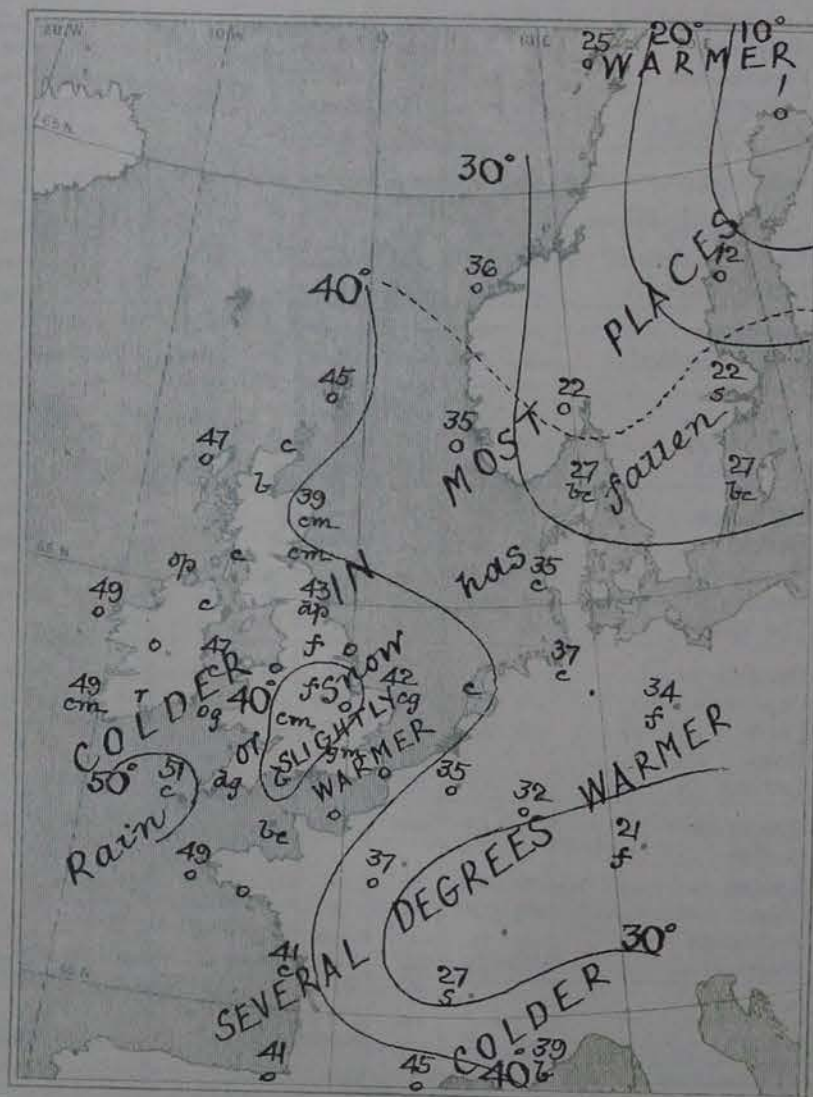
**RAINFALL**—A dotted line separates the districts in which rain has fallen from those where there has been none. Falls of 0.5 in. or more are quoted in figures.

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

(For the month of December.)

STATIONS.	TEMPERATURE				RAINFALL. (Inches)
	Daily Max.	Daily Min.	Dry. W.	Wet. W.	
Sumburgh Head	42.6	35.2	39.6	38.1	4.25
Stornoway	43.1	34.2	39.1	37.5	5.63
Wick	42.2	32.7	38.1	36.8	3.10
Nairn	41.9	32.8	37.1	35.6	1.85
Aberdeen	41.9	32.6	36.9	35.2	3.21
Leith	44.0	33.7	38.5	37.0	1.86
Shields	42.9	33.9	38.3	36.9	2.55
Spurn Head	42.4	35.3	38.3	37.7	2.14
York	42.3	32.3	36.4	35.4	2.28
Loughborough	42.7	32.2	36.3	35.4	2.24
Ardrrossan	44.5	35.9	40.0	38.7	3.73
Mullaghmore	46.5	37.8	42.2	39.8	4.31
Donaghadee	45.8	36.2	40.2	38.3	2.84
Holyhead	46.1	39.1	42.8	41.1	3.82
Liverpool	43.5	35.6	38.8	37.1	2.39
Parsonstown	44.7	33.1	37.8	36.6	3.01
Valencia	40.7	40.0	44.6	42.4	5.09
Roche's Point	47.9	38.9	42.9	41.5	4.95
Pembroke	46.8	40.3	43.6	42.2	3.09
Scilly	49.5	43.4	47.0	45.1	4.02
Prawle Point	47.0	38.2	42.5	41.1	3.76
Jersey	47.3	39.3	43.1	41.4	3.82
Hurst Castle	45.5	36.3	40.6	39.8	2.78
Dover	44.3	35.9	39.8	38.6	3.00
LONDON	44.0	33.9	37.8	36.7	2.10
Oxford	42.9	33.5	37.0	35.9	2.10
Cambridge	42.8	31.6	36.2	35.5	1.88
Yarmouth	41.9	33.5	37.9	37.0	2.66

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 upwards, over the Gulf of Bothnia; 30.4 ins. and upwards over the south of Ireland.  
 Lowest, 29.9 ins. and less, in a depression over the Gulf of Genoa; 30.0 ins. and less, in another disturbance off the north of Scotland.  
 Gradients slight generally, but moderate over Norway.  
 Barometer falling over the northern parts of our Islands and Scandinavia, as well as in the south of France, but rising elsewhere.

## TEMPERATURE

Highest 51° at Scilly, 49° at Belmullet and Valencia (Ireland), 48° at Pembroke, and 47° at Rosoway and Antressan.  
 Lowest, 1° at Haparanda, 12° at Hernösand, 21° at Munich, 22° at Stockholm and Faerder, 25° at Bodö, and 27° at Mity and Lyons.  
 During yesterday the thermometer rose to 50° or a little more at several of our western and northern stations; in the southeast of England it did not exceed 45°.

## WIND

Light to moderate from the SW<sup>nd</sup> over the northern parts of our Islands; strong from the SE<sup>nd</sup> or E<sup>nd</sup> in the west of Norway.  
 Light to moderate from the N<sup>nd</sup> or NE<sup>nd</sup> in the south of England, as well as over Denmark, the Netherlands, and the south of France.  
 Variable in Germany and the south of France.

## WEATHER

Cloudy or overcast in most places, with fog or mist over the central parts of England, as well as in Germany.  
 Rain is falling at some of the Irish stations, and snow at Mity and Lyons.  
 A little rain fell yesterday in many parts of our Islands and France, and snow in the south of Sweden.

## SEA

Moderate to smooth generally, but rather rough at the North Foreland.

## PROBABLE CHANGES IN SYSTEM NOW PREVALENT

The depression off the north of Scotland seems likely to occasion freshening winds from the SW<sup>nd</sup> on our extreme northern coasts. No other change is indicated at present.

# FORECASTS

For the 24 hours ending at NOON on 6<sup>th</sup> DEC<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

SW<sup>nd</sup> winds, freshening; drizzle, some rain.  
 SW<sup>nd</sup> winds, light or moderate; cloudy, local showers.  
 N<sup>nd</sup> winds, light; drizzle, mist or fog locally.

## DISTRICTS.

## FORECASTS.

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

Same as Nos 1 and 2.  
 N<sup>nd</sup> winds, moderate; fair generally.  
 Same as No. 0.  
 Same as Nos 1 and 2.  
 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.			
Stranraer ...	30.11	37	35	ESE	4	o	4	Valencia ...	30.49	51	50	NNW	4	bam	4
Sumburgh Head ...	30.06	40	38	N	2	c	4	Scilly ...	30.24	51	50	NNW	4	cym	2
Stornoway ...	30.10	35	49	NW	3	o	3	Jersey ...	30.24	53	50	NW	2	ogm	3
Aberdeen ...	30.16	44	42	NNW	2	o	3	Hurst Castle ...	30.20	46	45	NW	2	mg	1
Chields ...	30.15	45	43	NW	2	d	3	Dungeness ...	30.12	44	43	NNW	2	m	1
Ardrossan ...	30.22	51	50	N	2	c	2	North Foreland ...	30.13	44	43	NW	2	cym	2
Malin Head ...	30.31	49	48	NW	3	o	2	London, W. ...	30.15	48	45	NW	1	f	*
Mullaghmore ...	30.43	35	48	NW	2	cf	2	Yarmouth ...	30.06	48	42	NNW	2	cf	3
Balmullet ...	30.26	49	48	NW	3	og	3	Rocheport ...	30.22	41	37	ESE	4	b	*
Holyhead ...	30.26	49	48	NW	3	og	3								

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

Weather dull and damp over the United Kingdom, with fog or mist and slight rain at several stations. Dull also over the greater part of Russia, Italy and the south of France, rainy in Denmark as well as at Perpignan; snow falling in North Germany. Fine and bright in Iceland, Scandinavia, south Germany, Spain, and Central France. Sky clearing later in the west of our Islands, but slight rain falling in many parts of Great Britain and France, and snow in the south of Sweden.

Temperature risen quickly over England, Ireland, and the north of France, but fallen in most other countries. Morning readings highest (1) 61° at Malta, 60° at Algiers, 58° at La Caille and 57° at Orem; (2) 51° at Scilly and Ardrossan, 50° at Valencia (Ireland) and Pembroke; considerably above 45° in the western parts of our Islands generally. Lowest - 14° Fahr. at Ulrabad, - 5° at Haparanda, - 4° at Helsingfors and - 2° at Archangel; below 20° at some of the German and Russian stations, and below the freezing point in most parts of northern, eastern, and central Europe. Raining during day to 50° or a little above it at several of our own western and northern stations, but remaining below 45° in the southeast of England, and below 40° in the central parts of France.

Wind light to moderate from the NW<sup>nd</sup> over our Islands, and from the SW<sup>nd</sup> over the Netherlands and Germany. E<sup>ly</sup> or SE<sup>ly</sup> in Norway and the south of Sweden. Light from the NW<sup>nd</sup> over Ireland and from the NE<sup>ly</sup> in the south of Russia. NE<sup>ly</sup> over France, Spain and northern Italy, NW<sup>ly</sup> in the south of Italy; variable in Austria and also in Algeria. No important change occurring over Western Europe during day.

Barometer highest 30.4 ins. and upwards, in an anticyclone extending over the south-western parts of Ireland from the Atlantic; 30.3 ins. in two other systems one lying over the north of Sweden and the other over western Russia. Lowest 29.9 ins. and less, in three shallow depressions - one lying over the eastern parts of the North Sea, another over the north of Russia, and a third over the western parts of the Mediterranean. First named depression subsequently moving southwards to Germany, and barometer rising decidedly in Scandinavia and the north of our Islands.

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

WEATHER.—Beaufort Scale is b. blue sky; o. 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. 6TH DECEMBER. 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.		Max.	Min.	Amount of Rainfall.			
		Inch.	°				Inch.	°	°	°							°	Inch.			
SCANDINAVIA.	Haparanda ...	30.24	26	SW	6	0	30.04	-49	24	24	+23	SW	8	0	*	0	27	-4	—		
	Hernösand ...	30.31	21	SE	6	C	29.99	-54	26	24	+14	S	8	0	*	C	26	5	0.04		
	Stockholm ...	30.33	18	2	0	0	30.21	-26	21	18	-1	2	0	0	*	0	25	10	—		
	Wisby ...	30.32	28	E	4	0	30.23	-12	20	19	-7	SE	2	6	*	0	30	19	0.04		
	Bodö ...	29.64	35	SE	6	0	29.39	-102	31	30	+6	E	6	0	3	0.7	35	21	—		
	Christiansund...	29.75	43	SW	5	0	29.35	-69	41	36	+5	SE	4	0	4	0	43	36	—		
	Skudesnaes ...	30.06	37	SE	10	T	29.71	-63	46	46	+11	S	8	0	6	0.7	46	35	—		
	Christiania Fjord (Færd)	30.30	29	SE	5	0	29.96	-30	38	35	+13	S	4	8	4	0	35	22	—		
	Skagen (The Scaw)	30.31	29	SE	1	6	30.08	-23	33	31	+6	SW	2	0	0	6	33	23	—		
	Fanö ...	30.26	31	SE	2	C	30.11	-19	38	36	+2	SE	6	0	*	C	38	2	—		
ISLANDS.	Sumburgh Head	29.71	45	WNW	3	0	29.24	-74	49	48	+4	SW	3	0	4	0	49	44	0.47		
	Stornoway ...	29.82	44	NW	4	0	29.28	-72	52	52	+5	WNW	9	7	6	0	52	43	0.12		
	Wick ...	29.82	47	SW	3	0	29.37	-66	50	48	+6	W	4	0	2	0	50	42	0.05		
	Nairn ...	29.84	45	WNW	1	C	29.43	-67	53	49	+4	SW	8	6	1	C	53	41	0.05		
	Aberdeen ...	29.90	46	SW	4	bcy	29.54	-64	51	47	+12	SW	5	0	4	0.6cy	53	39	—		
	Leith ...	30.01	45	WNW	2	0	29.71	-54	52	49	+3	WNW	4	7	*	0	52	43	0.01		
	Shields ...	30.11	45	WNW	2	0	29.83	-46	50	48	+2	SW	1	0	2	0	52	42	—		
	Spurn Head ...	30.22	41	SW	4	0	29.99	-33	45	44	+6	SW	4	0	3	0.7	45	38	0.05		
	York ...	30.21	42	SW	2	0	29.97	-38	49	47	+12	S	3	0	*	0	49	37	0.09		
	Loughborough	30.30	40	SW	2	0	30.09	-29	46	45	+16	SW	3	0	*	0	47	38	0.09		
BRITISH ISLANDS.	Ardrossan ...	30.24	48	SW	4	odp	29.75	-51	51	49	+4	SW	5	0	4	od. odp	51	46	0.04		
	Malin Head ...	30.04	48	WNW	5	0	29.62	-61	51	48	+3	SW	7	0	5	0.07	51	46	0.06		
	Mullaghmore ...	30.14	52	SW	6	0	29.76	-54	52	50	+2	SW	7	0	*	0	52	49	0.01		
	Belmullet ...	30.13	48	W	5	T	29.85	-49	50	48	+2	WNW	6	C	4	T	51	42	0.01		
	Donaghadee ...	30.24	44	WNW	2	0	30.02	-34	48	46	+4	SW	2	0	2	0	50	43	0.03		
	Liverpool (Bidston)	30.25	47	WNW	2	0	30.04	-32	49	48	+2	WNW	4	0	3	0.09	50	46	—		
	Holyhead ...	30.26	49	SW	1	0	30.08	-36	50	48	+2	S	1	0	*	0	50	42	—		
	Valencia ...	30.35	51	SW	2	0	30.07	-42	52	50	+2	SW	3	0	3	0.09	52	47	—		
	Roche's Point	30.35	48	W	3	bc	30.11	-37	49	48	+4	WNW	3	C	3	bc	49	45	—		
	Pembroke (St. Ann's Hd.)	30.34	47	W	2	bc	30.12	-27	50	49	+2	WNW	4	C	4	bc	50	46	—		
GERMANY & HOLLAND.	Scilly ...	30.39	50	WNW	3	C	30.23	-12	50	48	-1	W	2	0	3	bc	51	46	—		
	Prawle Point ...	30.38	43	SW	1	0	30.24	-14	46	46	+3	W	2	0	1	d. og	47	42	0.03		
	Jersey (St. Aubin's)	30.35	42	NNE	2	bm	30.26	-08	48	46	+4	WNW	2	0	2	bm. w	48	35	—		
	Hurst Castle ...	30.47	40	NNE	2	0	30.22	-14	44	44	+9	W	2	0	1	bm. 0	44	34	—		
	Dungeness ...	30.31	39	N	2	0	30.19	-11	44	43	+4	W	3	0	2	C. 0	44	33	—		
	North Foreland	30.31	41	N	2	0	30.18	-14	41	40	-3	SW	2	0	2	0	44	35	—		
	London ...	30.24	38	WNW	2	ogm	30.18	-16	42	41	+1	SW	2	C	*	ogm. ord.	43	36	—		
	Oxford ...	30.32	40	2	0	0	30.16	-22	44	43	+11	SW	1	0	*	C. 0	44	33	—		
	Cambridge ...	30.34	38	W	3	0	30.14	-23	41	40	+4	SE	1	0	*	0	43	33	—		
	Yarmouth ...	30.28	40	WNW	1	C	30.11	-19	40	39	-2	WNW	3	C	3	C. C	43	36	—		
FRANCE AND BELGIUM.	Cuxhaven ...	30.27	35	NE	2	bc	30.22	-02	34	33	-3	SW	2	C	*	bc	37	33	—		
	Berlin ...	30.23	35	NW	3	0	30.29	+18	31	31	-3	NW	2	0	*	0.7	36	30	—		
	Wiesbaden ...	30.22	22	2	0	0	30.25	+15	21	21	0	SE	4	0	*	0	23	21	—		
	Munich ...	30.24	36	S	1	C	30.19	-13	41	40	0	SW	5	C	3	C	41	36	—		
	Brussels (9 a.m.)	30.29	41	S	1	0	30.20	-09	41	40	-3	SW	2	0	2	0	40	36	—		
	Cape Gris Nez	30.34	46	NNE	2	0	30.31	+13	34	32	-3	NW	2	0	*	0	38	33	—		
	Paris ...	30.36	48	NNE	4	6	30.30	+01	43	41	-5	E	2	0	2	6	50	37	—		
	Brest ...	30.36	48	NNE	4	6	30.30	+01	43	41	-5	E	2	0	2	6	50	37	—		
	Lorient ...	30.36	48	NNE	4	6	30.30	+01	43	41	-5	E	2	0	2	6	50	37	—		
	Rochefort ...	30.33	40	ENE	4	0	30.29	+09	36	34	-5	E	4	0	*	0	46	32	—		
PENIN- SULA.	Belfort ...	30.33	40	ENE	4	0	30.29	+09	36	34	-5	E	4	0	*	0	46	32	—		
	Lyons ...	30.33	40	ENE	4	0	30.29	+09	36	34	-5	E	4	0	*	0	46	32	—		
	Nice ...	30.33	40	ENE	4	0	30.29	+09	36	34	-5	E	4	0	*	0	46	32	—		
	Perpignan ...	30.33	40	ENE	4	0	30.29	+09	36	34	-5	E	4	0	*	0	46	32	—		
	Biarritz ...	30.33	40	ENE	4	0	30.29	+09	36	34	-5	E	4	0	*	0	46	32	—		
	Corunna ...	30.33	40	ENE	4	0	30.29	+09	36	34	-5	E	4	0	*	0	46	32	—		
	Lisbon ...	30.33	40	ENE	4	0	30.29	+09	36	34	-5	E	4	0	*	0	46	32	—		
	Lisbon ...	30.33	40	ENE	4	0	30.29	+09	36	34	-5	E	4	0	*	0	46	32	—		
	Lisbon ...	30.33	40	ENE	4	0	30.29	+09	36	34	-5	E	4	0	*	0	46	32	—		
	Lisbon ...	30.33	40	ENE	4	0	30.29	+09	36	34	-5	E	4	0	*	0	46	32	—		

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, 6<sup>th</sup> Dec<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

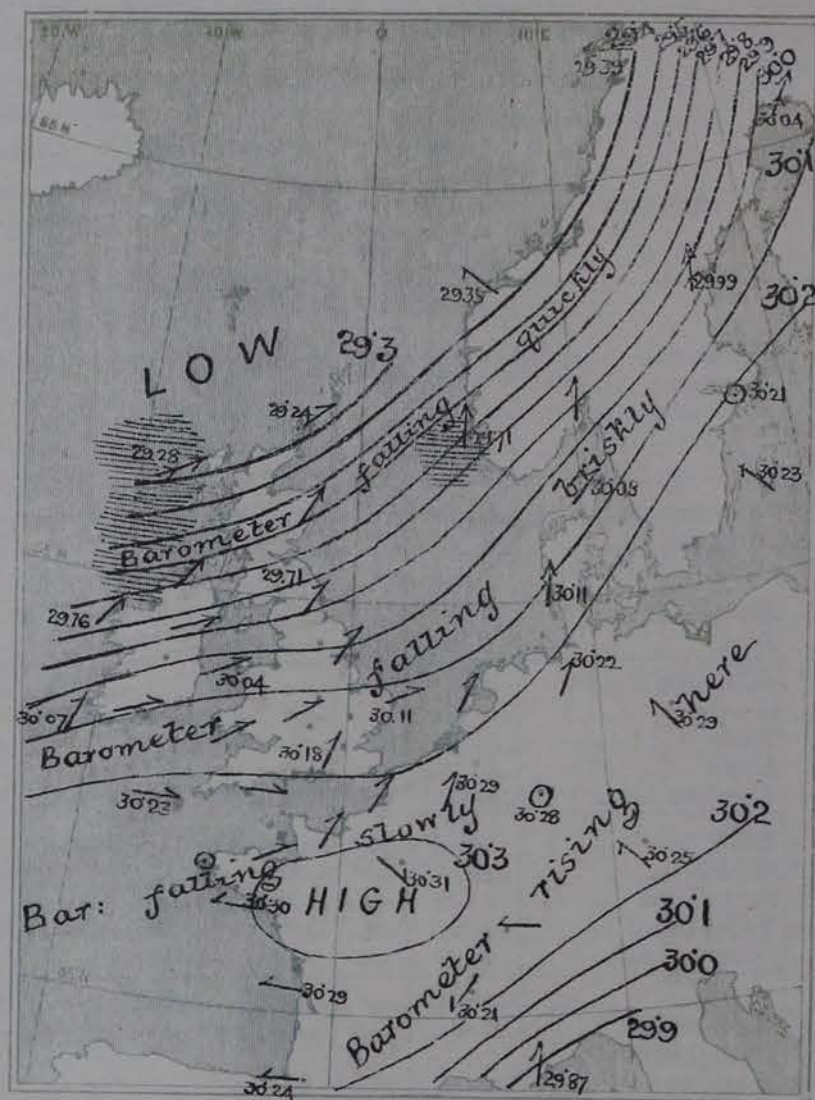
at 8.0 a.m. for the month of December.

During the 20 Years 1871—1890.

### STATIONS.

### MEAN READINGS.

STATIONS.	MEAN READINGS.
Sumburgh Head	29.073
Stornoway	29.705
Wick	29.718
Nairn	29.743
Aberdeen	29.767
Leith	29.807
Shields	29.845
Spurn Head	29.873
York	29.890
Loughborough	29.924
Ardrossan	29.820
Mullagimore	29.821
Donaghadee	29.848
Holyhead	29.879
Liverpool	29.895
Parsonstown	29.901
Valencia	29.905
Roche's Point	29.912
Pembroke	29.916
Sailly	29.951
Prawle Point	29.970
Jersey	29.985
Hurst Castle	29.958
Dover	29.953
LONDON	29.954
Oxford	29.955
Cambridge	29.941
Yarmouth	29.916



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

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

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

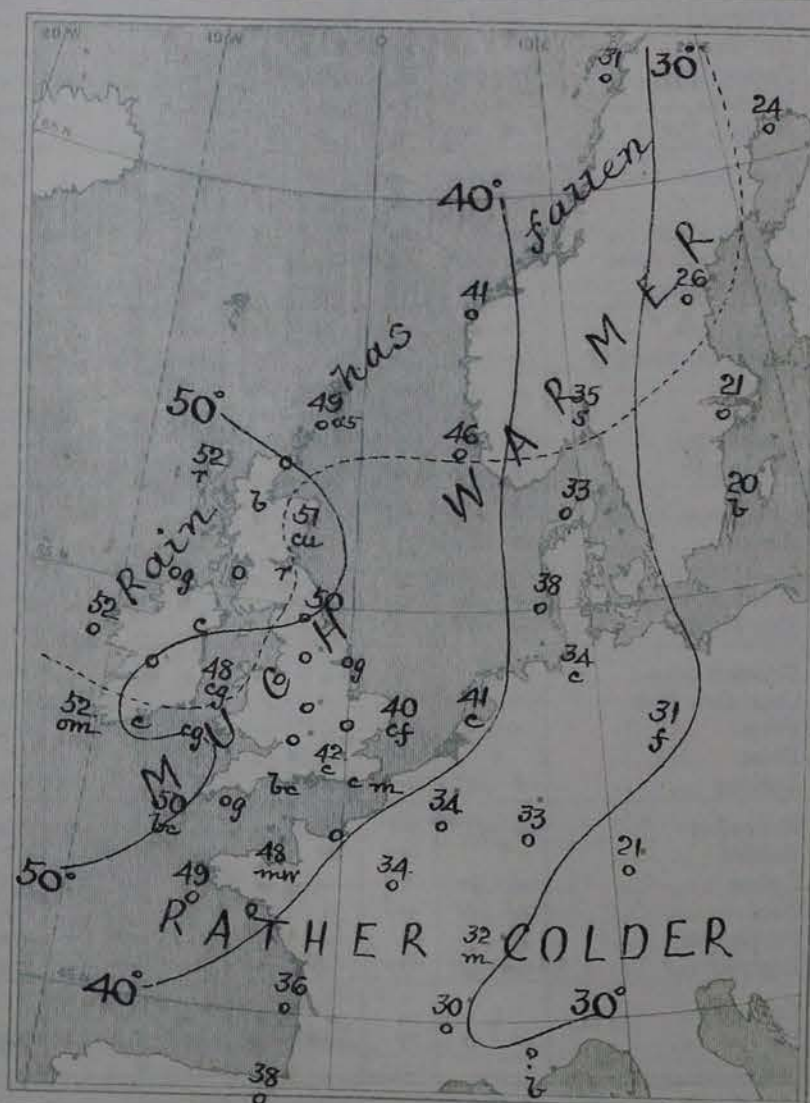
**RAINFALL**—A dotted line separates the districts in which rain has fallen from those where there has been none. Falls of 0.5 in. or more are quoted in figures.

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

(For the month of December.)

STATIONS.	TEMPERATURE.				RAINFALL (Inches.)
	Daily Max.	Daily Min.	Dry.	Wet.	
Sumburgh Head	42.0	35.2	30.6	38.1	4.25
Stornoway	43.1	34.2	30.4	38.5	5.03
Wick	42.2	32.7	38.1	30.8	3.10
Nairn	41.9	32.8	35.1	35.6	1.95
Aberdeen	41.9	32.6	30.9	35.2	3.24
Leith	44.0	33.7	38.5	37.0	1.86
Shields	42.9	33.9	38.3	36.9	2.57
Spurn Head	42.4	35.3	38.8	37.7	2.14
York	42.3	32.3	36.4	35.4	2.28
Loughborough	42.7	32.2	36.3	35.4	2.24
Ardrossan	44.5	35.9	40.0	38.7	3.73
Mullagimore	40.5	37.8	42.2	39.5	4.51
Donaghadee	45.8	36.2	40.2	39.3	2.84
Holyhead	43.4	39.1	42.8	41.1	3.82
Liverpool	43.5	35.6	38.8	37.1	2.59
Parsonstown	44.7	33.1	37.8	36.0	3.04
Valencia	40.7	40.0	44.6	42.4	5.00
Roche's Point	47.9	38.9	42.9	41.5	4.95
Pembroke	46.8	40.3	43.0	42.2	3.69
Sailly	49.5	43.4	47.0	45.1	4.02
Prawle Point	47.0	38.2	42.5	41.1	3.70
Jersey	47.3	39.3	43.1	41.4	3.82
Hurst Castle	45.6	36.3	40.6	39.8	2.78
Dover	41.3	35.9	39.8	38.6	3.00
LONDON	44.0	33.9	37.8	36.7	2.10
Oxford	42.9	33.5	37.0	35.9	2.10
Cambridge	42.8	31.6	36.2	35.5	1.88
Yarmouth	41.9	33.7	37.9	37.0	2.06

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, 30.2 in. to 30.3 in. over the Channel, the Bay of Biscay, France, Germany, and the Baltic.  
 Lowest, 29.3 in. and less, in a deep depression lying to the northward of our Islands.  
 Gradients steep over Scandinavia and the northern parts of our Islands and the North Sea, but slight elsewhere.  
 Barometer falling at all but the German and southern French stations;—quickly in the north.

## TEMPERATURE

Highest, 53° at Skarv, 52° at Stromway, Leith, Belmullet and Valencia (Ireland), and 51° at Aberdeen, Anderson, and Malin Head.  
 Lowest, 20° at Wisby, 21° at Stockholm and Munich, 24° at Haparanda, 26° at Helsingfors, 31° at Riga and Berlin, and 32° at Reval.  
 During the past 24 hours a brisk rise has taken place in many parts of the United Kingdom and also in Scandinavia.

## WIND

SW<sup>2</sup> over the greater part of our Islands and strong in force on our extreme north and northwest coasts, with a gale at Stromway.  
 S<sup>1</sup> in Scandinavia and Denmark, with a gale in many places.  
 Light from the W<sup>2</sup> in the extreme south of England, variable over Germany and Central France, E<sup>4</sup> in the west of France.

## WEATHER

Fine at some of the Channel stations and also in the south of France, but cloudy or overcast in nearly all other parts of Western Europe, with rain at Stromway and Leith, and with snow at Trondheim.  
 A decided fall of rain has occurred in the Shetlands, and slight amounts are reported over the northern parts of our Islands generally.

## SEA

Rough at Skudeenæs and Stromway, and rather rough at Malin Head, but slight or smooth in most other places.

## PROBABLE CHANGES IN SYSTEM NOW PREVALENT

The gradients over our north and northwest coasts are apparently increasing, and a further increase of wind is therefore probable in most parts of Ireland and Scotland. The southern portions of the Kingdom are not likely to be affected much at present.

# FORECASTS

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

DISTRICTS.	FORECASTS.	DISTRICTS.	FORECASTS.
† 0 SCOTLAND NORTH	SW <sup>2</sup> strong winds and gales; squally, rain at times.	† 6 SCOTLAND WEST	Same as No 0.
1 SCOTLAND EAST	{ SW <sup>2</sup> winds, increasing in force; squally, some rain.	7 ENGLAND N.W.	Same as Nos 1 and 2.
2 ENGLAND N.E.		8 ENGLAND S.W.	SW <sup>2</sup> and W <sup>2</sup> winds, freshening; cloudy, showery.
3 ENGLAND EAST	{ SW <sup>2</sup> and W <sup>2</sup> winds, moderate; fair to cloudy and showery.	† 9 IRELAND NORTH	Same as No 0.
4 MIDLAND COUNTIES		10 IRELAND SOUTH	Same as Nos 1 and 2.
5 ENGLAND SOUTH			
		WARNINGS	At 10.20 am to districts 0, 6, and 9 "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.	Dir.						Dry.	Wet.	Dir.			
Skudesnaes ...	30.23	37	34	SE	0	4		Valencia ...	30.39	52	51	SW	2	om	3
Sumburgh Head ...	29.78	44	43	SW	3	7	4	Scilly ...	30.38	51	45	NNE	4	bc	3
Stornoway ...	29.87	47	47	W	5	7	5	Jersey ...	30.37	47	43	NNW	3	om	3
Aberdeen ...	29.99	44	42	S	4	089	4	Hurst Castle ...	30.35	43	40	NE	2	bn	1
Shields ...	30.20	45	44	SW	2	0	2	Dungeness ...	30.29	43	40	NNE	3	c	2
Ardrossan ...	30.11	48	47	SW	3	045	3	North Foreland ...	30.29	42	41	N	3	o	3
Malin Head ...	30.08	48	48	SW	6	08	4	London ...	30.33	43	40	NW	1	mg	*
Mullaghmore ...								Yarmouth ...	30.28	42	41	N	2	cg	3
Belmullet ...	30.20	51	50	SW	6	07	*	Rochefort ...	30.22	44	41	ENE	4	o	*
Holyhead ...	30.31	47	45	W	2	0	2								

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

Weather cloudy or overcast in nearly all parts of our Islands and the Continent, with fog or mist over Central England, as well as at many of the German and Austrian stations. Rain falling in some parts of Ireland, as well as in Italy; snow reported over the Baltic Provinces, and in some other parts of Russia and North Germany, as well as at Stockholm and at Lyons. Fog very prevalent in Austria and Western Germany. Some rain later in the north and north-west of the United Kingdom, and weather continuing cloudy in the south.

Temperature fallen in most countries, but risen at many of the French and German stations. Morning readings highest 58° at Palermo and Algiers, and 55° at Sangunario, Cagliari, and Nemours; above 50° at several of the Mediterranean stations and very little above that point in the extreme west of our Islands. Lowest 36° Fahr. at Kuopio, +1° at Archangel and Haparanda, 2° at Uleaborg, and 6° at Helsingfors; below the freezing point over northern, eastern, and central Europe generally, and also over Central England. Rising during day to 50° or a little above at several of our own western and northern stations, but remaining below 45° in the south-east of England, and below 40° over Central France.

Wind light to moderate from the SW<sup>3</sup> over the northern parts of the United Kingdom; strong from the SE<sup>2</sup> or E<sup>2</sup> in the west of Norway. NE<sup>3</sup> over Denmark, North Germany, the Baltic, the Netherlands, the south of England and the greater part of France and Spain. Light from the SE<sup>2</sup> in Poland; variable in Austria, Italy, and Algeria. Subsequently increasing to a gale from the SE<sup>2</sup> in the west of Norway; no important change occurring elsewhere.

Barometer highest 30.6 ins. and upwards, over Finland; 30.4 ins. and upwards over the south of Ireland. Lowest 29.8 ins. and less, in a large but somewhat shallow depression lying over the Mediterranean to the westward of Italy; 30.0 ins. and less in another disturbance off the north of Scotland. Latter system subsequently spreading southwards, and barometer falling decidedly on our 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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" Weekly " " " £1 10 0 "



# DAILY WEATHER REPORT

for 8 a.m. on THURSDAY, 7<sup>TH</sup> DECEMBER, 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.	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).	Weather.	Max.	Min.	Amount of Rainfall.							
Ina.	°			Ina.		°	°								Ina.						
SCANDINAVIA.	Haparanda ...	29.70	24	S	0	29.24	-0.80	31	31	+7	SW	0	0	2	21	0.00					
	Hernösand ...	29.57	24	SE	0	29.26	-0.70	31	35	+	SE	0	0	21	21	0.00					
	Stockholm ...	29.93	31	S	2	29.70	-0.51	36	35	+15	SW	6	0	26	16	0.00					
	Wisby ...	29.09	30	S	4	29.88	-0.35	36	35	+16	SW	6	0	2	16	—					
	Bodö ...	29.91	36	ESE	0	29.80	-0.34	38	37	+7	SW	0	4	38	30	0.20					
	Christiansund...	29.10	43	SW	0	29.04	-0.31	38	36	-3	W	6	0	46	36	0.60					
	Skudesnaes ...	29.38	40	SW	0	29.21	-0.30	45	42	-1	SW	0	6	40	41	—					
	Christiania Fjord (Færd)	29.52	43	S	10	29.38	-0.58	44	44	+9	SW	7	5	44	35	—					
	Skagen (The Scaw).	29.71	37	SW	4	29.32	-0.36	39	39	+6	SW	4	1	41	32	0.20					
	Fanö ...	29.86	41	SW	6	29.63	-0.48	41	41	+8	SW	6	0	41	37	0.04					
BRITISH ISLANDS.	Sumburgh Head	29.12	44	W	0	29.99	-0.35	40	37	-9	W	0	4	49	38	0.40					
	Stornoway ...	29.17	43	W	5	29.09	-0.19	34	34	-10	W	4	4	50	32	0.40					
	Wick ...	29.18	47	W	4	29.11	-0.26	32	32	-17	SW	2	2	51	32	0.20					
	Nairn ...	29.25	43	SW	2	29.16	-0.27	35	33	-10	SW	0	1	50	32	0.24					
	Aberdeen ...	29.30	49	SW	5	29.25	-0.29	36	33	-15	SW	0	3	52	36	0.03					
	Leith ...	29.40	46	W	0	29.35	-0.36	37	35	-15	W	0	0	50	35	0.35					
	Shields ...	29.56	50	SW	5	29.44	-0.39	40	37	-10	SW	4	2	50	38	0.04					
	Spurn Head ...	29.73	47	SW	4	29.57	-0.42	42	40	-2	W	4	3	48	41	0.03					
	York ...	29.75	49	W	3	29.59	-0.42	42	39	-7	W	4	0	51	39	0.12					
	Loughborough	29.89	49	SW	4	29.66	-0.40	41	39	-5	W	2	0	51	41	0.06					
BRITISH ISLANDS.	Ardrossan ...	29.45	50	SW	5	29.37	-0.38	39	37	-12	SW	7	5	51	38	0.12					
	Malin Head ...	29.43	47	W	7	29.33	-0.29	39	37	-12	W	0	4	51	35	0.40					
	Mullaghmore ...	29.60	47	W	7	29.57	-0.19	41	39	-11	W	7	0	52	37	0.26					
	Belmullet ...	29.56	51	SW	6	29.50	-0.35	35	34	-15	W	5	3	52	32	0.25					
	Donaghadee ...	29.56	51	SW	6	29.50	-0.35	35	34	-15	W	5	3	52	32	0.25					
	Liverpool (Bldston)	29.70	51	SW	6	29.60	-0.42	43	40	-5	W	5	5	51	40	0.05					
	Holyhead ...	29.77	51	SW	5	29.63	-0.41	42	39	-7	W	6	5	51	42	0.03					
	Parsonstown ...	29.72	47	SW	5	29.70	-0.38	36	35	-14	SW	1	0	52	36	0.17					
	Valencia ...	29.82	53	SW	5	29.81	-0.26	48	44	-7	W	6	6	54	41	0.03					
	Roche's Point	29.84	51	W	6	29.79	-0.32	42	40	-7	W	4	3	52	40	0.02					
BRITISH ISLANDS.	Pembroke (St. Ann's Hd.)	29.89	50	SW	6	29.76	-0.36	46	43	-4	W	5	6	50	45	0.10					
	Scilly ...	29.87	51	SW	4	29.84	-0.39	50	45	0	W	4	5	51	47	0.02					
	Prawle Point ...	29.07	47	W	4	29.84	-0.40	46	45	0	W	4	3	51	42	0.07					
	Jersey (St. Aubin's)	29.15	48	SW	2	29.89	-0.37	49	48	+1	SW	4	3	52	46	0.04					
	Hurst Castle ...	29.06	47	SW	0	29.84	-0.38	46	45	+2	W	5	3	49	44	0.06					
	Dungeness ...	29.04	47	W	4	29.74	-0.45	47	46	+1	W	5	4	48	43	0.01					
	North Foreland	29.05	46	SW	2	29.73	-0.45	47	46	+6	SW	3	3	49	40	—					
	London ...	29.01	48	SW	3	29.74	-0.44	47	45	+5	SW	2	0	50	42	0.02					
	Oxford ...	29.94	47	SW	2	29.72	-0.44	43	42	-1	W	2	0	49	40	0.01					
	Cambridge ...	29.95	47	SW	5	29.69	-0.45	46	44	+5	SW	5	0	50	39	0.07					
GERMANY & HOLLAND.	Yarmouth ...	29.96	45	SW	3	29.66	-0.45	46	45	+6	SW	4	4	46	39	0.02					
	Cuxhaven ...	29.11	37	SW	4	29.81	-0.41	36	36	+2	SW	5	0	39	36	—					
	Berlin ...	29.18	26	SW	2	29.04	-0.25	24	23	-7	SE	2	0	34	23	—					
	Wiesbaden ...	29.02	25	SE	0	29.02	-0.26	25	24	-1	NE	1	0	36	23	—					
	Munich ...	29.07	22	SE	4	29.08	-0.27	21	21	0	SW	4	0	25	19	—					
	The Helder ...	29.01	41	SW	5	29.74	-0.45	43	42	+2	SW	6	4	43	41	0.04					
	Brussels (9 a.m.)	29.91	36	SW	2	29.91	-0.38	36	34	+2	SW	4	0	39	33	—					
	Cape Gris Nez	29.07	41	SW	2	29.79	-0.41	46	45	+5	W	6	6	46	41	0.04					
	Paris ...	29.20	35	SW	2	29.01	-0.30	34	34	0	S	2	0	37	32	—					
	Brest ...	29.49	49	W	1	29.01	-0.30	40	40	-1	W	5	4	35	45	0.04					
FRANCE AND BELGIUM.	Lorient ...	29.18	47	W	1	29.98	-0.32	50	48	+2	W	4	2	50	41	—					
	Rochefort ...	29.18	46	ESE	2	29.09	-0.20	34	34	-2	S	4	0	46	32	—					
	Belfort ...	29.19	31	W	2	29.11	-0.10	30	29	0	E	1	0	34	19	—					
	Lyons ...	29.31	45	E	1	29.09	-0.22	40	35	-5	E	1	4	35	29	—					
	Nice ...	29.06	38	W	4	29.02	-0.25	30	29	-9	W	1	0	44	29	—					
	Perpignan ...	29.18	38	SE	0	29.10	-0.14	36	34	-2	SE	0	2	39	32	—					
	Biarritz ...	29.18	38	SE	0	29.10	-0.14	36	34	-2	SE	0	2	39	32	—					
	Corunna ...	29.10	40	W	0	29.06	-0.06	45	40	-1	W	0	0	54	41	—					
	Lisbon ...	29.10	40	W	0	29.06	-0.06	45	40	-1	W	0	0	54	41	—					
	Peninsula ...	29.10	40	W	0	29.06	-0.06	45	40	-1	W	0	0	54	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, 7<sup>th</sup> Dec<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—  
 — force above 10 — force 8 to 10 — force 6 to 8 — force 4 to 6 — force 1 to 4 —  
 — dead calm.

**SEA DISTURBANCE**—Where considerable, is shown thus:  
 — Rough — High.

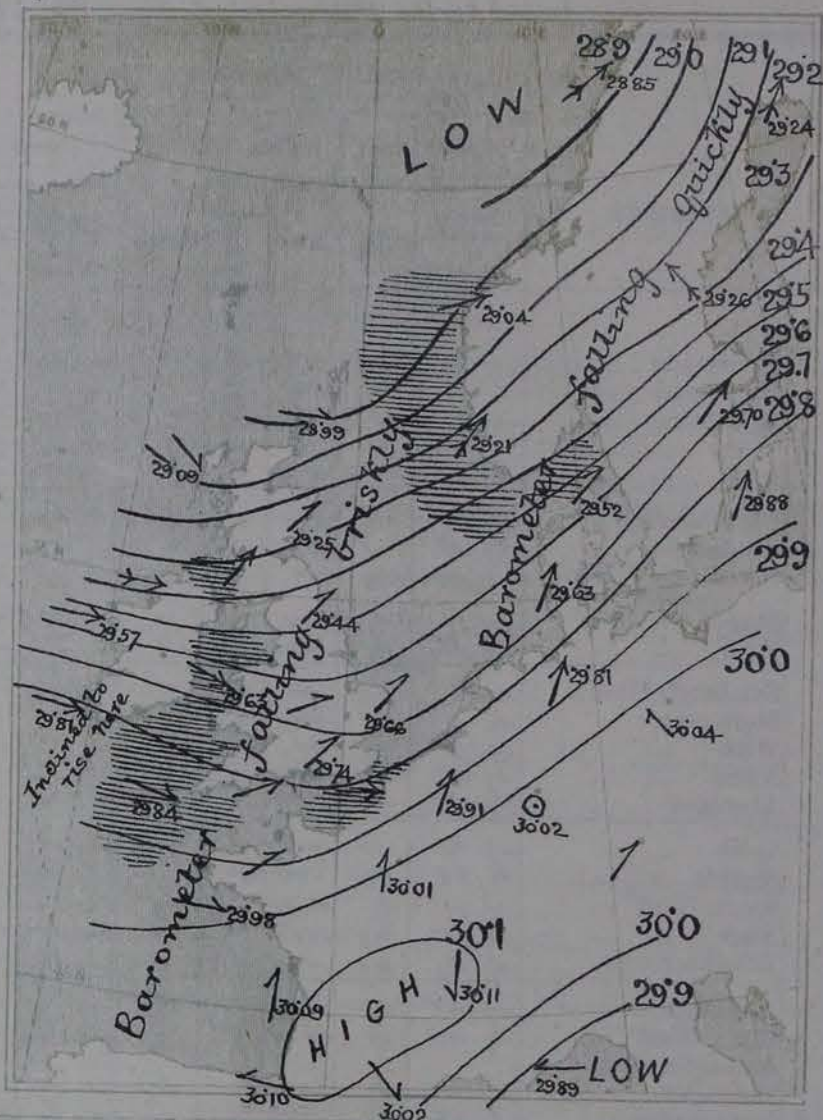
### MEAN HEIGHT OF THE BAROMETER

at 8 a.m. for the month of December.  
 (Barometer 29.7 in. 1871—1890.)

#### STATIONS

#### MEAN READINGS.

STATIONS	MEAN READINGS.
Sunderland Head	29.673
Stornoway	29.703
Wick	29.718
Nairn	29.743
Aberdeen	29.767
Leith	29.807
Shields	29.835
Spain Head	29.873
York	29.890
Loughborough	29.921
Ardrossan	29.926
Mullaghmore	29.921
Dunmaddy	29.948
Holyhead	29.979
Liverpool	29.985
Parsonstown	29.991
Valencia	29.995
Roches Point	29.992
Pontenke	29.996
Sally	29.991
Pevels Point	29.970
Jersey	29.983
Hurst Castle	29.958
Dover	29.954
LONDON	29.953
Oxford	29.955
Cambridge	29.941
Yarmouth	29.916



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

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

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

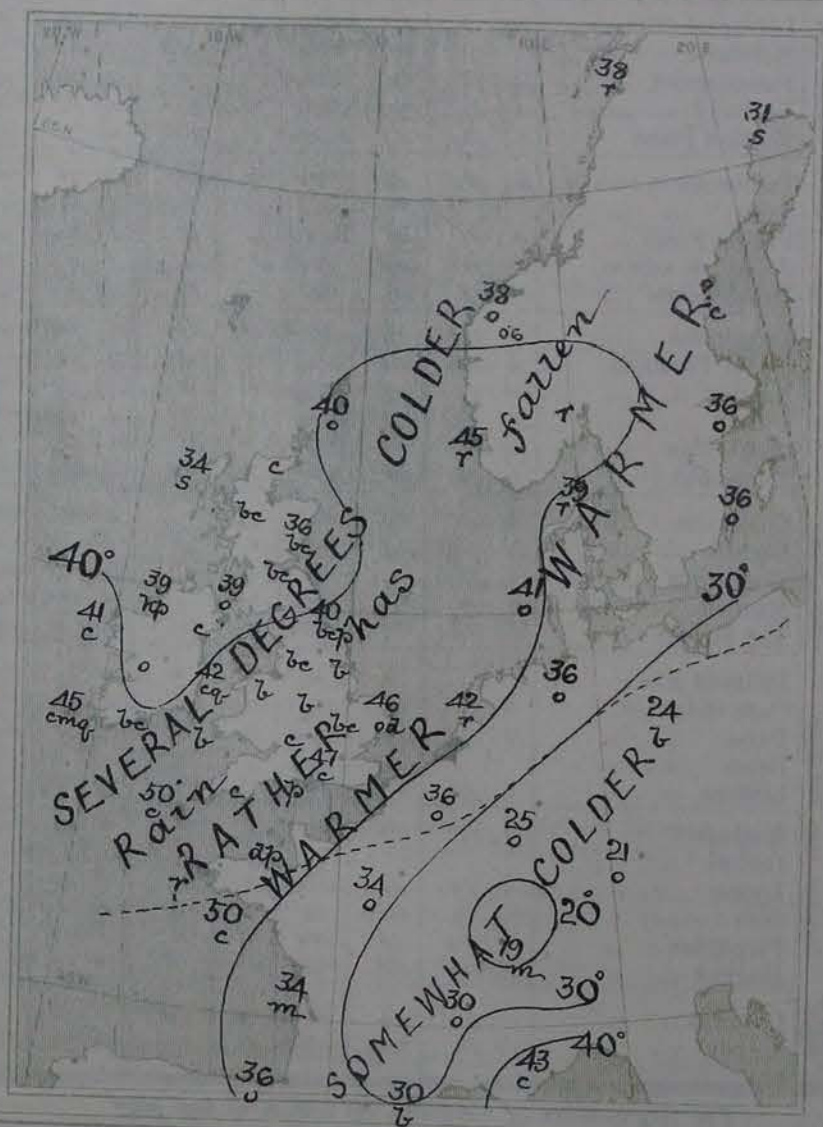
**RAINFALL**—A dotted line separates the districts in which rain has fallen from those where there has been none. Falls of 0.1 in. or more are quoted in figures.

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

(for the month of December.)

STATIONS	TEMPERATURE				RAINFALL (inches)
	Daily Max.	Daily Min.	Daily Mean.	Wind	
Sunderland Head	42.6	35.0	39.6	38.1	1.25
Stornoway	42.1	34.0	38.1	38.5	1.63
Wick	42.2	32.7	38.1	38.8	1.19
Nairn	41.9	32.8	37.1	35.6	1.25
Aberdeen	41.0	32.6	36.9	35.2	1.24
Leith	44.0	33.7	38.8	37.0	1.80
Shields	42.9	33.4	38.3	36.0	2.37
Spain Head	42.4	35.3	38.8	37.7	2.44
York	42.5	32.3	37.4	35.4	2.24
Loughborough	42.5	32.2	37.3	35.4	2.21
Ardrossan	44.5	35.9	40.0	33.7	1.73
Mullaghmore	40.5	37.8	42.2	39.8	1.51
Dunmaddy	45.8	36.2	40.2	39.3	2.84
Holyhead	46.4	39.1	42.8	41.1	2.84
Liverpool	43.7	35.0	39.3	37.1	3.85
Parsonstown	41.7	33.1	37.5	36.6	2.59
Valencia	43.7	34.0	44.0	42.4	3.09
Roches Point	47.9	38.3	42.1	41.5	4.35
Pontenke	49.8	40.3	45.0	42.2	3.09
Sally	49.5	43.4	47.0	45.1	4.02
Pevels Point	47.0	38.2	42.5	41.1	3.70
Jersey	47.3	39.3	43.1	41.4	3.82
Hurst Castle	45.6	36.3	40.6	39.8	2.75
Dover	44.3	35.9	39.8	38.6	3.09
LONDON	44.0	33.9	37.8	36.7	2.10
Oxford	42.0	33.5	37.0	35.9	2.10
Cambridge	42.8	31.6	36.2	35.3	1.88
Yarmouth	41.9	33.7	37.0	37.0	2.06

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 30.1 in. and upwards over the southern parts of France.

Lowest, 28.9 in. and less, in a depression off the northwest of Norway.

Gradients rather steep over Scandinavia, the North Sea and the northern parts of our Islands, but slight elsewhere.

Barometer inclined to rise in the west of Ireland, but falling elsewhere, — quickly in Scandinavia and Denmark.

## TEMPERATURE

Highest, 50° at Kelly and Lorient, 49° at Jersey, 47° at Dungeness, the North Foreland, and in London, and 46° at Pembroke, Hurst Castle, Yarmouth and Cambridge.

Lowest, (1) 19° at Neft, 21° at Munich, 24° at Berlin, 25° at Wiesbaden and 30° at Lyons, (2) 31° at Haparanda (3) 33° at Neri and 34° at Tromsø.

A considerable fall has taken place in the west and north of our Islands; at Tromsø and Neri the change since yesterday morning amounts to 18°.

## WIND

Strong from the W<sup>nd</sup> on our western coasts, with a gale in the north of Ireland; moderate from the SW<sup>nd</sup> in the eastern parts of the United Kingdom.

Strong to a gale from the S<sup>nd</sup> or SW<sup>nd</sup> in Scandinavia and Denmark.

Variable over Germany and the southern parts of France.

## WEATHER

Changeable and showery over the greater part of the United Kingdom, with hail at Malin 11<sup>h</sup> and snow at Tromsø.

Dull at most of the Continental stations, with rain in Norway, and snow at Haparanda.

In the course of the past 24 hours rain has fallen over the United Kingdom generally. A solar halo was seen yesterday at Hurst Castle, and lightning occurred during the night at Ardrossan and Rock Point.

## SEA

Rough on the Norwegian coasts and rather rough at several of our own western stations, but moderate or light elsewhere.

## PROBABLE CHANGES IN SYSTEM NOW PREVALENT

Shallow secondary disturbances are passing eastwards across our Islands, and the weather is therefore likely to remain showery and unsettled, with a decided fall of temperature over England.

## FORECASTS

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

DISTRICTS.		FORECASTS.	
† 0	SCOTLAND NORTH	{	W <sup>ly</sup> to NW <sup>ly</sup> winds; changeable, some snow showers.
† 1	SCOTLAND EAST		
2	ENGLAND N.E.	{	Same as No 5.
3	ENGLAND EAST		
4	MIDLAND COUNTIES		
5	ENGLAND SOUTH		SW <sup>ly</sup> to W <sup>ly</sup> winds, fresh; changeable, some showers, becoming colder.

DISTRICTS.		FORECASTS.	
† 6	SCOTLAND WEST	{	W <sup>ly</sup> to NW <sup>ly</sup> strong winds or gales; squally, showery.
† 7	ENGLAND N.W.		
8	ENGLAND S.W.		W <sup>ly</sup> winds, fresh; changeable, some showers, colder.
† 9	IRELAND NORTH	{	Same as Nos 6 and 7.
† 10	IRELAND SOUTH		
WARNINGS		The <u>SOUTH CONE</u> was hoisted yesterday in districts 0, 1, 6, 7, 9, and 10.	

The SOUTH CONE was hoisted yesterday in districts 0. 1. 6. 7. 9. and 10.

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

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



# YESTERDAY'S 2 P.M. REPORTS.

		THER.		WIND.		F.		WEA.		SEA.				THER.		WIND.		F.		WEA.		SEA.	
BAR.		Dry.	Wet.	Direc.								BAR.		Dry.	Wet.	Direc.							
Skudesnaes ...	29.53	48	47	S	0	6	Valencia ...	29.90	52	52	SW	6	om	6									
Sumburgh Head ...	29.12	45	44	W	0	4	Scilly ...	30.13	51	49	SW	3	C	3									
Stornoway ...	29.23	53	52	W	7	6	Jersey ...	30.19	49	47	WSW	3	cond	3									
Aberdeen ...	29.29	51	49	SW	6	5	Hurst Castle ...	30.10	48	47	SW	3	bc	1									
Shields ...	29.71	51	49	SW	2	2	Dungeness ...	30.09	48	47	W	3	C	2									
Ardrossan ...	29.53	50	49	SW	5	4	North Foreland ...	30.09	49	47	SW	2	0	2									
Malin Head ...	29.42	49	49	SW	0	5	London ...	30.05	51	48	SW	2	0	*									
Mullaghmore ...							Yarmouth ...	29.98	48	44	SW	3	C	3									
Belmullet ...	29.60	52	50	SW	7	*	Rochefort ...	30.26	38	37	ENE	3	0	*									
Holyhead ...	29.85	50	48	SW	4	4																	

## 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 one or two of the Scotch stations and snow at Fardar and Casow. Fine at some of the English Channel stations and also in Spain and the south of France, but raining in Algeria. Rain falling later in most parts of northwestern Europe and snow at Wick, as well as in the north of Sweden. Solar halo seen at Hurst Castle during morning, and lightning occurring at night at Ardrossan and Rocher Point.

Temperature falls a little in France, Germany, and the Netherlands, but rises elsewhere, chiefly over England, the south of Norway, and the north of Sweden. Morning readings highest (1) 61° at Malta, 54° at Brindisi, and 53° at Constantinople and Chorn; (2) 53° at Kairi, and 52° at Stornoway. Leith, Belmullet, and Valencia (Ireland), considerably above 45° in all the more western and northern parts of the United Kingdom. Lowest 9° at Moscow, 20° at Wlady, and 21° at Stockholm (most of the Russian reports wanting), below the freezing point in most parts of northern, eastern and central Europe. Rising during day to 50° or a little more over the United Kingdom generally, but remaining below 40° over Belgium, Germany and central France.

Wind SW over the greater part of our Islands, and strong to a gale on our extreme northeast coasts; S in Scandinavia and Denmark, with gales in many places. Light from the W in the extreme south of England; E in the west of France, and NE in Spain. Fresh to strong from the NE or N over the northern parts of Italy and the Adriatic, and from the NW in the extreme south of France. Light and variable in Germany and Austria. SW winds subsequently spreading to all parts of the United Kingdom, and increasing in force in the west and north generally.

Barometer highest 30.6 in and upwards in a large anticyclone over Central Russia, 30.4 in and upwards in a broad band extending across the Baltic and Germany to France, the English Channel, and the Bay of Biscay. Lowest, 29.3 in and less, in a large depression lying to the north of Scotland (gradient steep over Scandinavia and the north of our Islands); 29.3 in and less, in a shallow system over Sardinia, the southern parts of Italy and the Adriatic and the adjacent parts of the Mediterranean. Depression in north subsequently moving northwards, but at the same time spreading out in a southerly and southeasterly direction.

### 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, 8TH DECEMBER, 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.						
		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.	Amount of Rainfall.				
																				Ins.	°	°	°
SCANDINAVIA.	Haparanda ...	29.28	34	SW	6	T	29.17	-0.7	34	34	+3	SW	8	T	*	T	29	5	0.25				
	Hernösand ...	29.25	35	SE	8	0	29.31	+0.5	34	33	-2	S	4	f	*	0	37	28	0.04				
	Stockholm ...	29.58	34	SE	2	S	29.63	-0.7	34	33	-2	SW	2	f	*	S	36	30	0.51				
	Wisby ...	29.78	33	SW	6	0	29.77	-11	34	33	-2	SW	4	f	*	0	46	23	0.28				
	Bodö ...	29.94	35	SW	4	0	29.10	+2.5	36	34	-2	W	6	bc	S	0	38	34	0.12				
	Christiansund...	29.22	39	SW	3	C	29.25	+2.1	36	35	-2	S	1	C	4	C	39	34	0.39				
	Skudesnaes ...	29.23	42	W	5	C	29.33	+1.2	42	39	-2	SW	7	C	5	T. Chg.	45	36	-				
	Christiania Fjord (Færdar)	29.23	42	SW	7	f	29.49	+1.1	41	39	-3	SW	5	f	4	f	45	39	-				
	Skagen (The Scaw)	29.47	37	SW	4	T	29.56	+0.4	37	37	-2	WSW	3	bc	1	T	41	34	0.08				
	Fanö ...	29.57	39	WSW	4	f	29.64	+0.1	41	39	0	SW	4	C	*	C. l.	43	37	0.16				
BRITISH ISLANDS.	Sunburch Head	29.06	34	W	1	f	29.45	-0.4	41	40	+1	SE	5	T	5	0.5 f.	41	34	0.16				
	Stornoway ...	29.21	36	N	4	S	29.20	-0.7	45	43	+11	S	8	0	6	S	45	32	0.08				
	Wick ...	29.15	37	S	2	f	29.57	-0.6	43	43	+10	S	8	C	5	f	43	31	0.10				
	Nairn ...	29.27	38	WSW	1	f	29.57	-0.5	42	39	+7	SW	1	C	1	C	43	32	0.09				
	Aberdeen ...	29.30	36	WSW	4	C	29.71	-0.4	43	41	+7	SE	8	0.5 f.	7	C. l.	43	35	0.12				
	Leith ...	29.41	36	W	2	0	29.60	-0.7	43	40	+6	S	6	f	*	0.5 f.	44	35	0.10				
	Shields ...	29.49	40	SW	4	f	29.89	-0.3	43	41	+3	SW	7	bc	2	f	43	32	0.08				
	Spurn Head ...	29.62	40	WSW	4	f	29.22	-0.3	43	41	+1	SE	5	0.5 f.	4	f	44	38	0.01				
	York ...	29.61	39	W	4	0	29.11	-0.4	44	42	+2	S	4	T	*	0	44	36	0.11				
	Loughborough	29.62	37	WSW	3	f	29.28	-0.3	43	43	+4	SW	7	0.5 f.	*	f	47	37	-				
GERMANY & HOLLAND.	Ardrossan ...	29.44	42	SW	5	C	29.53	-0.4	49	46	+3	SW	9	T	7	C. l.	47	39	0.07				
	Malin Head ...	29.43	41	WSW	5	C	29.27	-1.06	44	44	+3	SW	10	0.7	7	C. l.	45	39	0.20				
	Mullaghmore ...	29.53	45	W	4	C	29.77	-0.8	45	41	+4	SW	10	C	*	C	49	37	0.30				
	Belmullet ...	29.57	36	SW	4	f	29.67	-0.3	46	45	+11	WSW	8	C	5	f	46	35	0.18				
	Liverpool (Bldston)	29.66	44	WSW	4	f	29.06	-0.4	49	45	+6	SW	6	f	4	f	49	38	0.11				
	Holyhead ...	29.67	42	W	3	f	29.01	-0.6	50	46	+3	SW	9	C	7	C. l.	50	42	0.28				
	Parsonstown ...	29.67	37	SW	1	C	29.01	-0.9	46	42	+10	SW	8	0	*	C. l.	46	36	0.16				
	Valencia ...	29.70	48	WSW	3	0.5 f.	29.22	-0.3	49	48	+7	W	7	T	4	C. l.	49	42	0.15				
	Roche's Point	29.73	45	WSW	3	f	29.22	-0.3	49	48	+7	W	7	T	4	C. l.	49	42	0.15				
	Pembroke (St. Ann's Hd.)	29.76	46	SW	3	C	29.20	-0.56	52	49	+6	WSW	7	C	8	C	52	36	0.07				
FRANCE AND BELGIUM.	Scilly ...	29.86	48	WSW	3	C	29.44	-0.4	52	52	+2	SW	6	C	6	C	52	48	0.03				
	Prawle Point ...	29.87	45	W	3	C	29.48	-0.36	48	48	+2	SW	7	C	6	C	49	41	-				
	Jersey (St. Aubin's)	29.92	47	W	3	C	29.67	-0.22	48	46	-1	SE	5	C	4	C. l.	53	40	0.07				
	Hurst Castle ...	29.85	48	WSW	4	f	29.32	-0.22	49	47	+3	SW	7	C	5	C	49	42	0.02				
	Dungeness ...	29.82	43	W	4	C	29.39	-0.15	45	44	-2	SW	6	0.5 f.	6	C. l.	50	37	0.01				
	North Foreland	29.79	41	W	2	f	29.56	-0.17	45	41	-4	S	6	0.5 f.	5	C. l.	48	36	0.07				
	London ...	29.81	41	SW	1	f	29.55	-0.24	45	43	-2	SW	6	0.5 f.	*	C. l.	48	37	-				
	Oxford ...	29.80	38	W	2	f	29.39	-0.33	46	44	+3	SW	7	C	*	T. f.	47	38	-				
	Cambridge ...	29.78	38	SW	5	f	29.43	-0.26	44	42	-2	SE	8	0	*	C	48	34	-				
	Yarmouth ...	29.71	40	WSW	3	C	29.43	-0.17	45	42	-3	SW	6	0.5 f.	5	C	47	35	0.01				
PENINSULA.	Cuxhaven ...	29.69	37	SW	5	0	29.76	-0.25	37	36	+1	SW	4	f	*	0	38	36	0.08				
	Berlin ...	29.86	26	SE	3	f	29.95	-0.09	32	31	+3	SW	3	0	*	C. l.	32	24	-				
	Wiesbaden ...	*	*	*	*	*	29.98	-0.04	30	29	+5	SE	2	0	*	*	30	25	0.08				
	Munich ...	29.99	22	SW	2	0	30.02	+0.04	20	19	-1	SE	5	0	*	0	25	19	-				
	The Helder ...	29.75	44	W	5	f	29.71	-0.2	38	37	-5	S	5	0	3	C	45	36	0.16				
	Brussels (9 a.m.)	*	*	*	*	*	29.82	-0.09	35	34	-1	SE	6	0	*	0	39	35	-				
	Cape Gris Nez	29.80	46	SW	5	f	29.68	-0.11	42	39	-4	SW	6	C	6	f	48	37	0.04				
	Paris ...	29.96	36	SW	2	0	29.88	-0.13	36	36	+2	S	3	0	*	0	36	32	-				
	Brest ...	*	43	SW	3	C	29.82	*	32	30	+4	SW	6	0	5	C	32	45	-				
	Lorient ...	29.95	50	WSW	3	C	29.89	-0.09	51	47	+1	SW	5	C	4	C	54	41	-				
PENINSULA.	Rocheport ...	30.02	39	S	4	M	29.91	-0.18	38	38	+4	S	4	0	*	M	39	34	-				
	Belfort ...	30.11	27	W	1	f	30.05	-0.06	28	26	-2	N	1	0	*	f	32	21	-				
	Lyons ...	*	*	*	*	*	29.91	-0.11	32	31	+2	SW	1	f	*	f	44	30	-				
	Perpignan ...	29.95	41	W	2	f	29.91	-0.11	32	31	+2	SW	1	f	*	f	44	30	-				
	Biarritz ...	30.00	44	SE	3	0	29.90	-0.20	46	42	+10	SE	3	C	6	0	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 Friday, 8<sup>th</sup> December, 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.

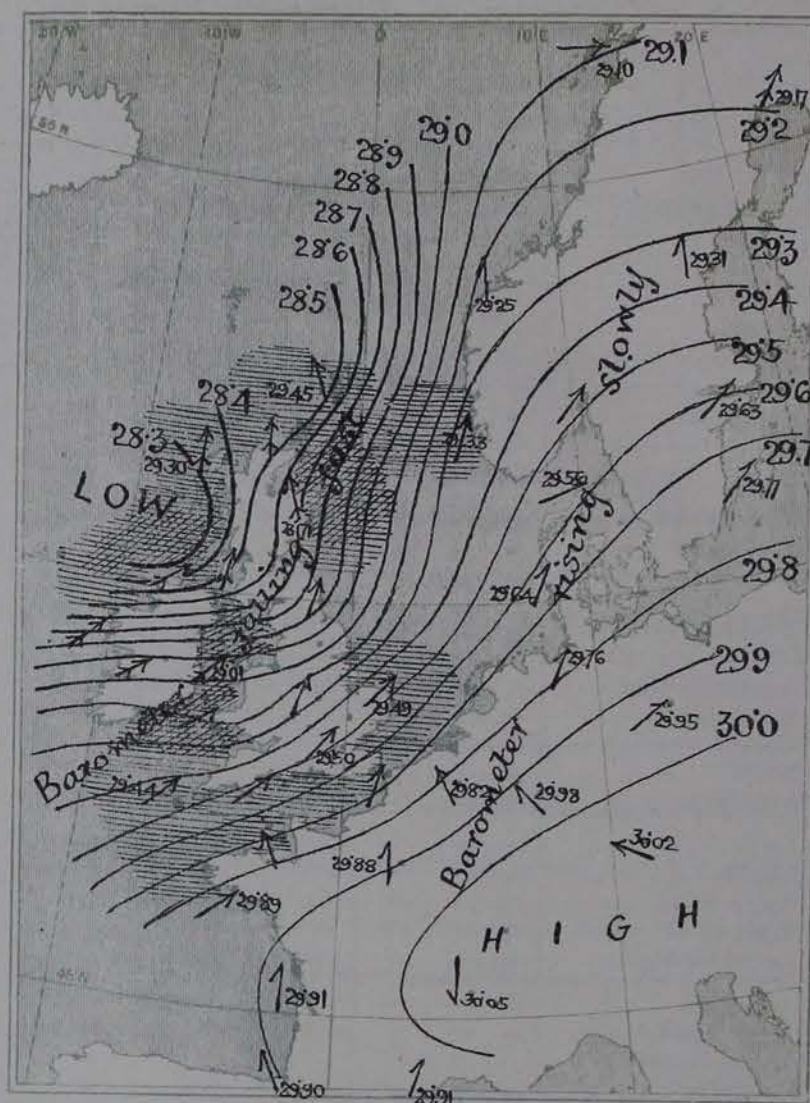
### MEAN HEIGHT OF THE BAROMETER

at 8.0 a.m. for the month of December,  
During the 20 Years 1871—1890.

#### STATIONS.

#### MEAN READINGS.

STATIONS.	MEAN READINGS.
Sumburgh Head	29.073
Stornoway	29.705
Wick	29.718
Nairn	29.743
Aberdeen	29.767
Leith	29.807
Shields	29.845
Spurn Head	29.873
York	29.890
Loughborough	29.924
Ardrossan	29.920
Mullaghmore	29.821
Donaghadee	29.848
Holyhead	29.879
Liverpool	29.895
Parsonstown	29.901
Valencia	29.905
Roche's Point	29.912
Pembroke	29.916
Sally	29.951
Prawle Point	29.970
Jersey	29.985
Hurst Castle	29.958
Dover	29.953
LONDON	29.954
Oxford	29.955
Cambridge	29.941
Yarmouth	29.916



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

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

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

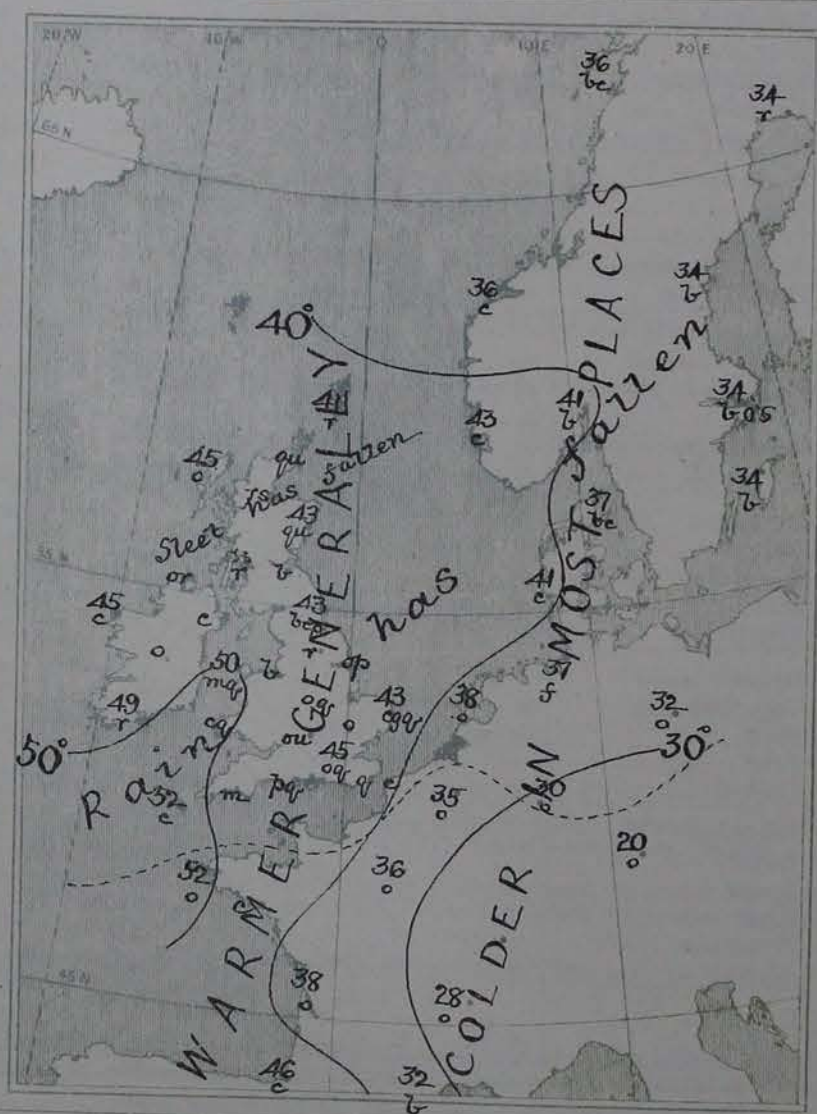
**RAINFALL**—A dotted line separates the districts in which rain has fallen from those where there has been none. Falls of 0.5 in. or more are quoted in figures.

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

(For the month of December.)

STATIONS.	TEMPERATURE.				RAINFALL. (Inches.)
	Daily Max.	Daily Min.	Dry.	Wet.	
Sumburgh Head	42.6	35.2	39.6	38.1	4.25
Stornoway	43.1	34.2	39.1	38.5	3.03
Wick	42.2	32.7	38.1	36.8	3.10
Nairn	41.9	32.8	37.1	35.8	1.95
Aberdeen	41.9	32.6	36.9	35.2	3.24
Leith	44.0	33.7	38.5	37.0	1.86
Shields	42.9	33.9	38.3	36.9	2.37
Spurn Head	42.4	35.3	38.8	37.7	2.14
York	42.3	32.3	36.4	35.1	2.28
Loughborough	42.7	32.2	36.3	35.4	2.21
Ardrossan	44.5	35.0	40.0	38.7	3.73
Mullaghmore	46.5	37.8	42.2	39.8	4.51
Donaghadee	43.8	36.2	40.2	39.3	2.84
Holyhead	46.4	39.1	42.5	41.1	3.82
Liverpool	43.5	35.6	38.8	37.1	1.59
Parsonstown	44.7	33.1	37.8	36.6	3.04
Valencia	49.7	40.0	44.6	42.4	5.99
Roche's Point	47.9	38.9	42.9	41.5	4.33
Pembroke	46.8	40.3	43.6	42.2	3.39
Sally	49.5	43.4	47.0	45.1	4.02
Prawle Point	47.0	38.2	42.5	41.1	3.76
Jersey	47.3	39.3	43.1	41.4	3.82
Hurst Castle	45.6	36.3	40.6	39.8	2.78
Dover	44.3	35.9	39.8	38.6	3.00
LONDON	44.0	33.9	37.8	36.7	2.10
Oxford	42.9	33.5	37.0	35.9	2.10
Cambridge	42.8	31.6	36.2	35.5	1.88
Yarmouth	41.9	33.7	37.0	37.0	2.66

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 upwards, over the southern parts of Spain, France, and Germany.  
Lowest, 28.3 in: and less, in a deep depression lying off the west of Scotland.

Gradients steep over Ireland, England, and the North Sea, moderate or slight elsewhere.

Barometer falling quickly over Great Britain, but rising again at some of the best stations; rising in Scandinavia, Denmark and Germany, falling in France.

## TEMPERATURE

Highest, 52° at Pembroke, Sully, and Brest, 51° at Lorient, 50° at Holyhead, and 49° at Liverpool, Roches Pt. and Hurst Castle.

Lowest, 20° at Munich, 28° at Lyons, 30° at Wiesbaden, 32° at Berlin and 34° at Haparanda, Helsingfors, Stockholm, and Västby.

The maxima registered yesterday were a little above 50° on our southwest coasts, but below 45° in the northern and eastern parts of Great Britain.

## WIND

Strong to a gale from the S<sup>W</sup> or S<sup>W</sup><sup>W</sup> over the whole of our Islands, as well as at some of the Scandinavian stations, moderate from the same quarters over Denmark and North Germany.

Moderate from the S<sup>E</sup> in France, and from the S<sup>E</sup><sup>W</sup> over the western and southern parts of Germany.

## WEATHER

Dull in most parts of Western Europe with rain and sleet in Scotland, and with passing showers at some of the English and Irish stations. Fine at most of the Scandinavian and Danish stations.

In the course of the past 24 hours rain has fallen over the greater part of our Islands as well as in Scandinavia and Denmark.

With the exception of one or two rather decided falls at our northeastern stations, the amount measured in our Islands has been mostly slight.

## SEA

High or rough on nearly all coasts and very high at Pembroke.

## PROBABLE CHANGES IN SYSTEM NOW PREVALENT

The depression off the west of Scotland seems likely to travel northeastwards. Secondary disturbances, are, however, passing across the United Kingdom, and equally showery weather will probably continue for a time in most districts.

## FORECASTS

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

### DISTRICTS.

### FORECASTS.

0	SCOTLAND NORTH	S <sup>W</sup> gales, veering to the W <sup>W</sup> & moderating later; squally and rainy to fair.
1	SCOTLAND EAST	
2	ENGLAND N.E.	Same as No. 5.
3	ENGLAND EAST	
4	MIDLAND COUNTIES	
5	ENGLAND SOUTH	S <sup>W</sup> and S <sup>W</sup> <sup>W</sup> gales and strong winds; squally, showery.

### DISTRICTS.

### FORECASTS.

6	SCOTLAND WEST	SW <sup>W</sup> to W <sup>W</sup> gales, moderating gradually; squally, showery.
7	ENGLAND N.W.	
8	ENGLAND S.W.	
9	IRELAND NORTH	
10	IRELAND SOUTH	

### WARNINGS

At 7.0 pm yesterday to districts 3, 5 and 8, and at 8.50 am today to district 2 Hoist South Cone. The signals are now flying in all districts excepting 0, 6, and 9, where they expire 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 ...	29.20	37	37	WNW	7	r	6	Valencia ...	29.79	46	45	WNW	5	rg	6
Sumburgh Head ...	29.22	35	34	WNW	2	o	3	Scilly ...	29.82	48	45	WNW	4	bc	5
Stornoway ...	29.14	37	36	WNW	4	o	4	Jersey ...	29.89	52	48	WNW	3	cf	3
Aberdeen ...	29.23	38	34	SW	3	b	3	Hurst Castle ...	29.81	47	45	WNW	4	b	3
Shields ...	29.44	41	38	SW	5	bp	2	Dungeness ...	29.77	50	46	W	4	bc	3
Ardrossan ...	29.40	42	41	SW	5	c	4	North Foreland ...	29.73	47	44	W	2	b	2
Malin Head ...	29.40	41	39	W	6	b	5	London ...	29.75	49	44	WNW	3	b	*
Mullaghmore ...								Yarmouth ...	29.66	45	42	WNW	4	bc	3
Belmullet ...	29.53	44	40	WNW	4	bc	*	Rocheport ...	30.02	39	37	S	4	m	*
Holyhead ...	29.66	43	39	W	5	bc	5								

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

Weather changeable and showery over the greater part of the United Kingdom, with hail on our extreme northwest coasts and snow at Stornoway. Dull at most of the Continental stations, with fog in many parts of Germany and Austria, rain in Norway, and snow at most of the Russian stations, as well as at Haparanda. Rain falling also in Algeria. Temporary improvement taking place later over England and fine bright weather prevailing in many places, but rain setting in over all the more western and northern parts of the Kingdom at night.

Temperature fallen quickly in the west and north of our Islands, and risen with equal rapidity over Sweden and northern Russia; changes slight elsewhere. Morning readings highest 62° at Malta, 55° at Sanguinaria and 54° at Algiers; ranging between 45° and 50° in the extreme south of England. Lowest 2° at Archangel, 8° at Moscow, 18° at Breslau, 19° at Prague and St Petersburg, below the freezing point over Russia and central Europe generally, and very little above it in the north of Scotland. Rising during day to 50° or more on our southwest coasts, but remaining below 45° in the north of our Islands, and below 40° over Central France.

Wind strong from the W<sup>nd</sup> on our western coasts, with a gale in the north of Ireland, moderate from the SW<sup>nd</sup> over the eastern and southern parts of the United Kingdom. Strong from the S<sup>nd</sup> or SW<sup>nd</sup> over Scandinavia, Finland, Denmark and the Baltic, with gales in many places. Light from the E<sup>nd</sup> or NE<sup>nd</sup> over the central and southern parts of Russia, variable in Austria, moderate from the NW<sup>nd</sup> in Italy. S<sup>nd</sup> in the west of France, variable in Algeria. Subsequently backing to the SW<sup>nd</sup> or S<sup>nd</sup> in the west of our Islands, and increasing to a strong gale at night.

Barometer highest 30.6 ins. and upwards in an anticyclone lying over Central Russia; 30.0 ins. and upwards over Austria, Germany, France, and Spain. Lowest 28.9 ins. and less in a depression lying off the northwest of Norway (gradient steep over Iceland and Sweden, and rather steep over Northwestern Europe generally); 29.8 ins. and less in a shallow system over the central parts of the Mediterranean. New and deep depression approaching our extreme western coasts in evening; rapid fall of barometer taking place over our Islands at 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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„ Weekly „ „ „ „ £1 10 0 „



# DAILY WEATHER REPORT

for 8 a.m. on SATURDAY. 9TH DECEMBER. 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.				
		Ina.	°				Ina.	°	°	°							°	Ina.				
SCANDINAVIA.	Haparanda ...	29.55	31	W	4	b	29.60	+51	35	33	+1	SW	6	0	*	b	41	30	0.08			
	Hernösand ...	29.61	36	SW	6	0	29.52	+21	35	34	+1	SE	8	0	*	0	36	30	0.04			
	Stockholm ...	29.80	34	SW	2	0	29.71	+08	36	35	+2	S	2	0	*	0	36	32	—			
	Wisby ...	29.89	36	SW	4	0	29.82	+05	35	34	+1	S	2	0	*	0	41	30	—			
	Bodö ...	29.28	32	E	2	bc	29.08	-02	33	37	+3	SE	4	0	2	bc. T	29	30	—			
	Christiansund...	29.94	39	NE	7	c	29.86	-39	42	37	+6	SE	7	bc	4	c	43	36	—			
	Skudesnaes ...	29.95	45	NE	10	bc	29.89	-44	40	39	-3	WNW	10	T	8	T. bc	45	37	—			
	Christiania Fjord (Færder)	29.37	40	SE	10	T	29.31	-18	41	40	0	SE	8	0	5	T	41	39	—			
	Skagen (The Scaw)	29.44	39	SW	6	m	29.34	-22	40	39	+3	SW	5	T	2	m	40	36	0.12			
	Fanö ...	29.45	40	S	6	T	29.35	-29	39	38	-2	S	6	0	*	T	41	37	0.08			
BRITISH ISLANDS.	Sumburgh Head	29.15	44	S	7	T	29.29	-16	44	42	+2	W	5	0	7	T	46	39	0.54			
	Stornoway ...	29.09	42	SW	9	T	29.67	+37	37	36	-1	WN	4	S	6	T	45	39	1.20			
	Wick ...	29.24	42	SW	7	0	29.62	+11	38	37	-5	WN	6	ou	6	ou	46	34	0.30			
	Nairn ...	29.34	40	WNW	6	0	29.73	+22	37	36	-5	WNW	3	OT	3	OT	46	35	0.20			
	Aberdeen ...	29.60	40	SW	10	cqfu	29.83	+12	38	35	-5	SW	5	cq	5	cq. T	46	37	0.04			
	Leith ...	29.74	38	W	4	b	29.95	+35	38	36	-5	WNW	2	bc	*	b	48	34	0.14			
	Shields ...	29.98	44	SW	4	bcf	29.06	+17	38	36	-5	SW	2	m	2	cf. bc f	49	32	0.19			
	Spurn Head ...	29.19	46	SW	5	bc	29.20	-02	38	36	-5	WNW	4	bc	3	bc f	48	37	0.09			
	York ...	29.11	45	SW	3	b	29.19	+08	36	35	-1	S	1	bc	*	b	49	35	0.37			
	Loughborough	29.24	45	WNW	2	b	29.37	-01	36	35	-9	WNW	2	bc	*	b. T	50	36	0.40			
BRITISH ISLANDS.	Ardrossan ...	29.79	44	SW	9	c	29.99	+46	41	40	-6	SW	6	fg	4	fg. cl	47	38	0.26			
	Malin Head ...	29.74	42	WNW	7	ohq	29.96	+69	40	38	-4	W	6	chf	4	ohq. cl	45	37	0.23			
	Mullaghmore ...	29.96	43	WNW	7	ogf	29.15	+38	42	37	-5	WNW	5	c	*	ohq. ogf	48	37	0.33			
	Donaghadee ...	29.96	39	SW	7	b	29.08	+41	35	34	-11	WNW	7	b	5	ohq. b	46	32	?			
	Liverpool (Bidston)	29.13	44	SW	4	b	29.22	+16	36	34	-13	SW	3	b	3	b	50	33	0.38			
	Holyhead ...	29.10	46	SW	5	og	29.22	+21	42	39	-8	WNW	3	c	3	c. og	50	40	0.19			
	Parsonstown ...	29.08	41	SW	2	0	29.25	+24	35	35	-11	SW	2	OT	*	0	49	34	0.19			
	Valencia ...	29.17	43	WNW	3	b	29.34	+14	43	41	-6	WNW	5	ogf	5	ogf. bc. T	50	38	0.22			
	Roche's Point	29.14	40	WNW	5	T	29.32	+10	39	38	-10	WN	2	c	4	T. cl	50	36	0.75			
	Pembroke (St. Ann's Hd.)	29.17	50	SW	5	c	29.31	+11	45	41	-7	W	4	bc	5	c. cl	52	43	0.22			
BRITISH ISLANDS.	Scilly ...	29.30	53	SW	5	c	29.39	-05	46	42	-6	W	4	c	6	c. cl	53	45	0.40			
	Prawle Point ...	29.40	50	SW	4	b	29.41	-07	39	39	-9	WNW	3	c	3	b. cl	50	38	0.29			
	Jersey (St. Aubin's)	29.52	51	SW	6	ogf	29.44	-23	45	43	-3	W	6	cq	5	ogf	53	44	0.31			
	Hurst Castle ...	29.41	48	WNW	6	bcq	29.37	-15	40	39	-9	W	3	bc	6	ogf. T	50	39	0.48			
	Dungeness ...	29.44	47	SW	7	T	29.28	-31	45	45	0	W	2	cq	3	T	48	44	0.43			
	North Foreland	29.45	48	S	7	fg	29.25	-31	45	44	+2	SW	2	fg	3	og. fg	48	37	0.48			
	London ...	29.89	47	SW	3	bc	29.26	-24	41	40	-4	WNW	1	c	*	og. bc. T	50	41	0.38			
	Oxford ...	29.29	46	SW	3	b	29.31	-08	36	35	-10	WNW	2	b	*	og. bc. cl	50	36	0.15			
	Cambridge ...	29.33	47	S	6	bc	29.29	-14	39	38	-5	SW	2	c	*	bc. cl	49	38	0.11			
	Yarmouth ...	29.34	46	S	5	cq	29.37	-22	41	40	-2	WNW	3	c. m	4	og. cq	46	40	0.31			
GERMANY & HOLLAND.	Cuxhaven ...	29.65	38	S	6	0	29.45	-31	37	37	0	SE	5	c	*	0	39	36	—			
	Berlin ...	29.89	30	SE	2	b	29.75	-20	24	23	-1	SE	3	b	*	b	34	23	—			
	Wiesbaden ...	*	*	*	*	*	29.77	-27	30	29	0	SE	1	0	*	*	32	28	—			
	Munich ...	29.90	18	2	0	0	29.77	-25	15	15	-5	SE	3	f	*	0	23	14	—			
	The Helder ...	29.49	42	SW	6	T	29.31	-40	42	42	+4	S	5	T	3	T	45	37	0.08			
	Brussels (9 a.m.)	*	*	*	*	*	29.41	-41	41	40	+6	SE	6	T	8	0	43	33	—			
	Cape Gris Nez	29.51	45	SW	7	T	29.31	-37	46	45	+4	SW	6	T	6	T	46	42	0.35			
	Paris ...	29.76	42	SW	4	0	29.49	-39	44	41	+8	S	5	0	*	0	44	?	—			
	Brest ...	*	53	SW	5	T	29.7	*	49	48	-3	WNW	4	c	5	T	54	43	0.24			
	Lorient ...	29.60	52	SW	6	T	29.56	-33	48	45	-3	WNW	6	c	4	T	54	46	0.59			
FRANCE AND BELGIUM.	Roche fort ...	29.78	44	S	4	c	29.68	-23	48	46	+10	W	4	T	*	T. cl	?	38	0.24			
	Belfort ...	*	26	E	1	b	29.7	*	17	15	-5	E	2	m	*	b	?	14	—			
	Lyons ...	29.96	29	N	1	0	29.84	-21	26	26	-2	SW	1	f	*	0	31	26	—			
	Nice ...	29.77	44	E	3	b	29.77	-06	42	37	+1	E	1	b	2	b	53	39	—			
	Perpignan ...	29.85	46	WN	2	b	29.86	-11	37	30	-1	SW	1	0	*	b	54	30	—			
	Biarritz ...	29.85	50	SE	2	b	29.77	-13	48	45	+2	SW	2	T	6	b	54	43	0.08			
	Corunna ...	*	*	*	*	*	29.98	-04	54	53	+9	SW	3	0	*	c. b	54	45	—			
	Lisbon ...	29.02	52	WNW	2	b	29.98	-04	54	53	+9	SW	3	0	*	c. 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 Saturday, 9<sup>th</sup> Dec: 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

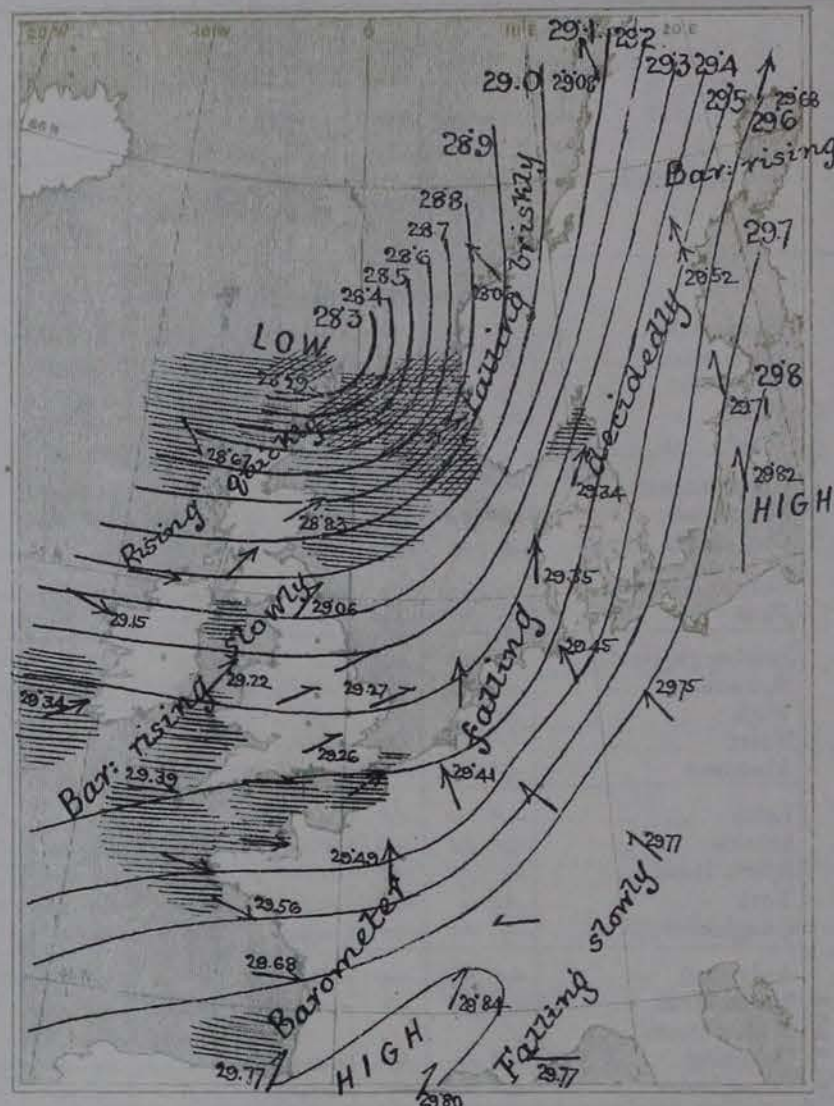
at 8 a.m. for the month of December.

During the 20 Years 1871-1890.

### STATIONS.

### MEAN READINGS.

STATIONS.	MEAN READINGS.
Sumner Head	29.673
Stornoway	29.703
Wick	29.718
Nairn	29.743
Aberdeen	29.767
Leith	29.807
Shields	29.845
Spurn Head	29.873
York	29.890
Loughborough	29.924
Ardrossan	29.930
Mullaghmore	29.921
Donaghadee	29.848
Holyhead	29.879
Liverpool	29.895
Parsonstown	29.901
Valencia	29.905
Roche's Point	29.912
Pembroke	29.910
Sally	29.951
Praske Point	29.970
Jersey	29.985
Hurst Castle	29.958
Dover	29.953
LONDON	29.954
Oxford	29.955
Cambridge	29.941
Yarmouth	29.916



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

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

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

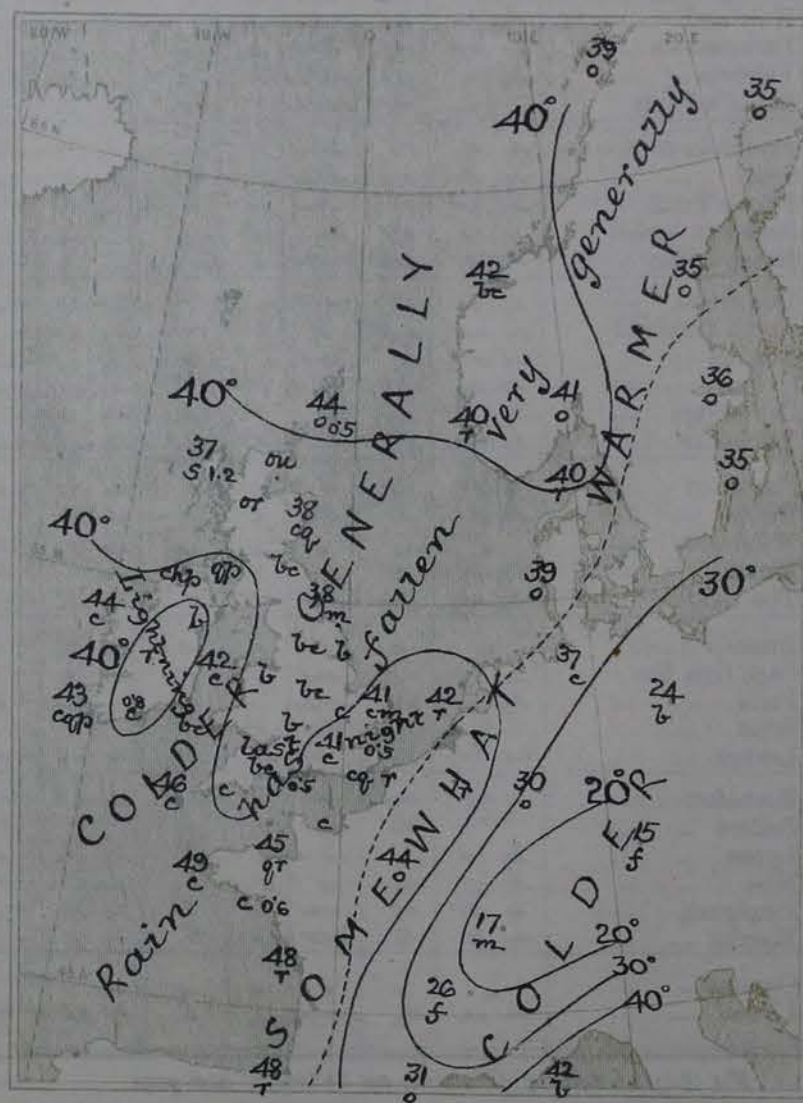
**RAINFALL**—A dotted line separates the districts in which rain has fallen from those where there has been none. Falls of 0.1 in. or more are quoted in figures.

## MEANS OF TEMPERATURE IN SHADE, AND RAINFALL.

(For the month of December.)

STATIONS.	TEMPERATURE.				RAINFALL (Inches.)
	Daily Max.	Daily Min.	Dry. °F.	Wet. °F.	
Sumner Head	42.0	35.2	30.0	58.1	4.35
Stornoway	43.1	34.2	30.4	58.5	5.01
Wick	42.2	32.7	38.1	56.8	3.10
Nairn	41.9	32.8	37.1	55.6	1.05
Aberdeen	41.0	32.0	36.9	55.2	3.24
Leith	44.0	33.7	38.5	57.0	1.86
Shields	42.0	33.9	38.3	56.0	2.57
Spurn Head	42.4	35.3	38.8	57.7	2.11
York	42.3	32.3	36.4	53.4	2.28
Loughborough	42.7	32.2	36.3	53.4	2.24
Ardrossan	44.5	35.0	40.0	58.7	0.73
Mullaghmore	40.5	37.8	42.2	59.8	4.51
Donaghadee	45.8	36.2	40.2	59.3	2.84
Holyhead	40.4	39.1	42.8	61.1	3.82
Liverpool	43.5	35.0	38.8	57.1	2.70
Parsonstown	44.7	33.1	37.8	56.6	3.04
Valencia	40.7	40.0	44.0	62.4	3.09
Roche's Point	47.0	38.9	42.0	61.5	4.55
Pembroke	40.8	40.3	43.0	62.2	3.74
Sally	49.5	43.4	47.0	65.1	4.02
Praske Point	47.0	38.2	42.0	61.1	3.70
Jersey	47.3	39.3	45.1	61.4	3.82
Hurst Castle	45.6	36.3	40.6	59.8	2.78
Dover	44.3	35.0	39.8	58.6	3.00
LONDON	44.0	33.0	37.8	56.7	2.10
Oxford	42.9	33.5	37.0	55.9	2.10
Cambridge	42.8	31.6	36.2	53.5	1.88
Yarmouth	41.0	33.7	37.9	57.0	2.60

**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 29.98 ins. at Lisbon; 29.8 ins. and upwards over Spain and the S. of France, and also over the Baltic.

Lowest 28.3 ins. and less in a depression lying to the northward of the Shetlands.

Gradients very steep off the west of Norway, and rather steep over N.W. Europe generally, but slight over France and the south of our Islands.

Barometer rising in our Islands, — quickly in the north, but falling at most of the Continental stations.

## TEMPERATURE

Highest 54° at Lisbon, 49° at Brest, 48° at Lorient, Rochefort and Biarritz, 46° at Sicily & Cape Gris Nez.

Lowest (1) 15° at Munich, 17° at Belfort, and 24° at Berlin; (2) 35° at Parsonstown, and 36° at Cork, Liverpool,

Loughborough and Boford (3) 35° at Haparanda, Hernösand and Wisby.

Frost occurred last night in some of our more central and N.W. districts; at Loughborough the thermometer on the grass fell to 30°.

## WIND

W. or SW. over the greater part of the United Kingdom, light to fresh in force generally, but strong on our western & N.W. coasts.

S. or SE. in Scandinavia, Denmark and Germany, with a gale at Hernösand, Skudesnaes & Faeröer, variable in the S. of France.

A strong to a whole gale from the SW. was experienced yesterday in the north of our Islands, and a fresh to strong gale at night in the south and southeast of England.

## WEATHER

Fine at present over the greater part of England, but showery in Ireland and Scotland, with snow at Stornoway.

Cloudy and unsettled at most of the Continental stations, with rain over the S. of Norway, the Netherlands and the S.W. of France.

In the course of the past 24 hours rain has fallen in all parts of the Kingdom, the largest amounts being 1.2 ins. at Stornoway, and 0.8 ins. at Roches Pt. Solar halo was seen yesterday at Boford, and lightning occurred at several of our western and southern stations, with thunder at Ardrossan.

## SEA

High at Skudesnaes and Sumburgh Head, and rough or rather so on most parts of our own and French coasts.

## PROBABLE CHANGES IN SYSTEM NOW PREVALENT

The depression in the north is now travelling away in a N.E. direction. There are at present no indications of the advance of any fresh disturbances, but the conditions are not at all settled.

## FORECASTS

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

### DISTRICTS.

### FORECASTS.

- |   |                  |  |
|---|------------------|--|
| 1 | SCOTLAND NORTH   | { W. winds, strong to moderate; unsettled, some snow showers.      |
| 1 | SCOTLAND EAST    |  |
| 2 | ENGLAND N.E.     | { SW. winds, moderate or fresh; changeable, some cold showers.     |
| 3 | ENGLAND EAST     |  |
| 4 | MIDLAND COUNTIES | { Same as No. 5.   |
| 5 | ENGLAND SOUTH    |  |
|   |                  | { SW. winds, moderate or fresh; fair generally, with local showers |

### DISTRICTS.

### FORECASTS.

- |          |               |   |
|----------|---------------|---|
| 5        | SCOTLAND WEST | { Same as No. 1.  |
| 7        | ENGLAND N.W.  |   |
| 8        | ENGLAND S.W.  | { W. to SW. winds; unsettled, some showers.   |
| 9        | IRELAND NORTH |   |
| 10       | IRELAND SOUTH |   |
| WARNINGS |               | At 10.30 am to districts 2, 3, 5 and 8. Lower cone. The signals are still flying in district 0. |

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 South Cone is hoisted in preference to the North 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 ...	29.09	42	48	SE	10	T	8	Valencia ...	29.19	45	44	SW	7	mgf	6
Sumburgh Head ...	28.29	44	43	SE	7	T	7	Scilly ...	29.29	53	49	WSW	5	o	6
Stornoway ...	28.02	45	44	SE	6	T	6	Jersey ...	29.58	58	50	SW	5	og	4
Aberdeen ...	28.47	42	39	SW	9	bcguf	8	Hurst Castle ...	29.43	49	48	SW	7	mgf	6
Shields ...	28.91	46	43	SW	5	cp	2	Dungeness ...	29.45	47	46	SW	7	og	6
Ardrossan ...	28.70	45	43	SW	9	bcf	7	North Foreland ...	29.45	47	46	SW	7	og	5
Malin Head ...	28.74	42	40	WSW	7	oxe	6	London ...	29.3	50	49	SW	7	og	5
Mullaghmore ...								Yarmouth ...	29.34	45	44	SW	7	og	5
Belmullet ...	28.92	42	39	WSW	7	ohf	*	Rocheport ...	29.88	42	42	SW	4	T	*
Holyhead ...	29.09	48	43	WSW	6	C	6								

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

Weather dull over the greater part of our Islands and the Continent, with rain and sleet in Scotland, and with passing showers at several of the English and Irish stations. Snow falling over the Gulf of Finland, and rain in some parts of Algeria and Tunis. Fine and bright in the south of France and also on the eastern shores of the Adriatic. Rain or hail falling later over the whole of the United Kingdom, heavily in places. Solar halo seen at Oxford and lightning occurring in evening or night at many of our western and southern stations, with thunder at Ardrossan.

Temperature risen generally, but fallen in some of the northern countries. Morning readings highest 61° at La Caille, 60° at Malta, and 59° at Brindisi, above 50° at the Mediterranean stations generally, and also in the extreme southwest of England. Lowest -1° at Moscow, +13° at Archangel, 15° at Kharkov, and 20° at Murish, below the freezing point in most parts of Russia, Austria and Germany, as well as in the central parts of France and Spain. Daily maxima over our Islands ranging between 45° and 53°, but frost occurring in some of the northern and central districts at night.

Wind strong to a gale from the S<sup>W</sup> or S<sup>W</sup><sup>W</sup> over the whole of our Islands, as well as in some parts of Scandinavia and Finland; gale severe on our extreme northwest coasts. Moderate from the same quarter over Denmark, the Baltic, north Germany, and the west and north of France. Light to moderate from the E<sup>W</sup> or NE<sup>W</sup> over Italy and the south of Russia, but variable in Austria, and also in Spain and the south of France, N<sup>W</sup> or NW<sup>W</sup> in Tunis and eastern Algeria. Severe gale from the S<sup>W</sup><sup>W</sup> blowing later over the whole of Scotland and fresh to strong gale in the south and southeast of England at night.

Barometer highest 30.6 ins. and upwards in an anticyclone over central Russia, 30.0 ins. and upwards over the whole of Russia, Austria, south Germany and central France. Lowest 28.3 ins. and less in a deep depression having its centre to the west of Scotland; gradients steep over the whole of our Islands and the North Sea. Depression subsequently travelling north-eastwards, and barometer at 4 p.m. falling to a minimum of 27.97 ins. at Stornoway, brisk rise taking place in north 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 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 10<sup>th</sup> December, 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.	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).	Weather.	Max.	Min.								
Ins.	°				Ins.	°	°	°					°	ins.							
SCANDINAVIA.	Haparanda ...	29.61	34	SW	6	0	29.62	- .06	32	32	-	3	S	6	bc	#	0	39	30	-	
	Hernösand ...	29.50	36	SSE	8	0	29.42	- .09	35	33	-	0	SSE	4	0	#	0	37	32	-	
	Stockholm ...	29.59	36	S	4	0	29.63	- .08	36	35	-	0	SW	2	r	#	0	37	32	0.04	
	Wisby ...	29.67	35	S	6	0	29.71	- .11	36	36	+	1	S	2	r	#	0	37	32	0.04	
	Bodö ...	29.00	41	E	2	0	29.20	+ .12	41	?	+	2	SE	4	bc	2	0	41	37	-	
	Christiansund...	28.91	40	SSE	5	0	29.25	+ .39	40	35	-	2	SW	4	c	4	0	43	39	-	
	Skudesnaes ...	29.17	44	SSW	8	0	29.46	+ .57	43	39	+	3	SSW	6	c	5	0	45	37	-	
	Christiania Fjord (Fæder)	29.32	38	SSW	3	0	29.50	+ .19	42	40	+	1	SW	4	bc	3	0	42	37	-	
	Skagen (The Scaw)	29.35	39	SW	3	0	29.55	+ .21	39	37	-	1	WSW	2	bc	1	0	41	34	0.24	
	Fanö ...	29.44	41	WSW	4	0	29.65	+ .30	40	39	+	1	SW	2	bc	#	0	44	39	0.16	
BRITISH ISLANDS.	Sumburgh Head	28.83	39	W	3	0	29.14	+ .85	41	39	-	3	S	3	0	5	0	44	37	0.05	
	Stornoway ...	28.96	35	NW	4	0	28.98	+ .31	42	40	+	5	S	7	c	6	0	42	33	0.12	
	Wick ...	28.94	36	W	5	0	29.13	+ .51	39	38	+	1	S	3	bc	3	0	39	32	-	
	Nairn ...	29.04	35	WSW	2	0	29.15	+ .42	37	33	-	0	WSW	2	bc	1	0	38	31	0.02	
	Aberdeen ...	29.11	34	SSE	2	0	29.29	+ .46	37	35	-	1	S	3	c	3	0	40	33	-	
	Leith ...	29.18	36	W	3	0	29.27	+ .32	39	32	-	5	2	0	6	#	0	41	31	0.09	
	Shields ...	29.28	39	SW	2	0	29.38	+ .32	34	33	-	4	SE	2	m	2	0	43	32	-	
	Spurn Head ...	29.38	40	SSW	3	0	29.46	+ .26	36	35	-	2	S	3	c	3	0	43	34	-	
	York ...	29.35	38	SSW	1	0	29.41	+ .22	33	32	-	3	S	1	0	#	0	43	32	-	
	Loughborough	29.43	38	WSW	2	0	29.47	+ .20	32	32	-	4	SE	2	om	#	0	45	30	-	
GERMANY & HOLLAND.	Ardrossan ...	29.21	42	W	3	0	29.16	+ .17	40	39	-	1	ESE	4	c	3	0	42	38	0.02	
	Malin Head ...	29.17	38	SSW	6	0	28.90	- .06	40	38	-	0	SSE	6	0	3	0	41	35	0.06	
	Mullaghmore ...	29.27	37	SW	4	0	28.82	- .33	43	42	+	1	SE	7	r	#	0	43	36	0.20	
	Belmullet ...	29.29	35	WSW	6	0	29.13	+ .05	45	43	+	10	SSE	7	bc	5	0	45	34	0.02	
	Donaghadee ...	29.21	42	W	3	0	29.16	+ .17	40	39	-	1	ESE	4	c	3	0	42	38	0.02	
	Liverpool (Bidston)	29.38	38	SW	2	0	29.28	+ .06	35	34	-	1	ESE	4	0	3	0	43	33	0.05	
	Holyhead ...	29.36	41	WSW	3	0	29.17	- .05	42	37	-	0	SE	4	c	4	0	44	40	-	
	Parsonstown ...	29.38	34	SW	1	0	28.88	- .37	43	41	+	8	SW	6	r	#	0	44	32	0.23	
	Valencia ...	29.43	41	S	3	0	28.85	- .49	44	43	+	1	W	2	rm	#	0	47	35	0.42	
	Roche's Point	29.43	40	WNW	2	0	28.83	- .49	48	48	+	9	S	8	r	6	0	48	36	0.60	
FRANCE AND BELGIUM.	Pembroke (St. Ann's Hd.)	29.43	44	W	5	0	28.93	- .38	44	44	-	1	ESE	9	rq	?	0	47	?	0.93	
	Scilly ...	29.53	46	WSW	5	0	28.98	- .41	51	48	+	5	SSW	7	0	8	0	52	41	0.39	
	Prawle Point ...	29.56	42	WSW	3	0	29.21	- .20	47	47	+	8	SSE	8	or	7	0	48	37	0.03	
	Jersey (St. Aubin's)	29.61	45	WSW	5	0	29.44	.00	47	45	+	2	SE	8	opm	6	0	48	42	0.19	
	Hurst Castle ...	29.53	43	WSW	4	0	29.40	+ .03	46	44	+	6	S	7	ogp	5	0	47	40	0.02	
	Dungeness ...	29.51	45	W	3	0	29.58	+ .30	44	42	-	1	SSW	4	c	3	0	49	37	0.09	
	North Foreland	29.50	41	W	2	0	29.58	+ .33	43	41	-	2	S	4	c	4	0	45	36	0.10	
	London ...	29.51	40	WSW	2	0	29.52	+ .26	38	36	-	3	SE	2	ou	#	0	45	34	0.01	
	Oxford ...	29.51	37	SW	2	0	29.45	+ .14	38	37	+	2	SE	3	0	#	0	44	34	-	
	Cambridge ...	29.48	35	SSE	1	0	29.53	+ .24	35	33	-	4	SE	2	bc	#	0	45	30	-	
PENINSULAR.	Yarmouth ...	29.46	39	WSW	3	0	29.58	+ .31	38	37	-	3	S	3	bc	3	0	42	32	0.01	
	Cuxhaven ...	29.40	41	S	4	0	29.75	+ .30	37	37	-	0	SW	2	f	#	0	43	36	0.20	
	Berlin ...	29.46	31	SW	3	0	29.86	+ .11	31	30	+	7	SW	1	f	#	0	31	24	-	
	Wiesbaden ...	*	*	*	*	*	29.90	+ .13	36	34	+	6	SE	2	0	#	0	36	30	-	
	Munich ...	29.78	24	SSW	3	0	29.96	+ .19	32	32	+	17	S	2	0	#	0	32	18	-	
	The Helder ...	29.56	42	SW	2	0	29.70	+ .39	36	35	-	6	S	2	c	2	0	45	36	0.24	
	Brussels (9 a.m.)	*	*	*	*	*	29.76	+ .35	33	32	-	8	SSE	4	c	#	0	48	33	0.04	
	Cape Gris Nez	29.53	45	W	4	0	29.62	+ .31	38	37	-	8	S	4	c	4	0	46	36	0.32	
	Paris ...	29.71	38	SSW	3	0	29.77	+ .28	33	33	-	11	SE	2	0	#	0	51	32	0.04	
	Brest ...	?	47	NW	5	0	?	?	49	49	+	0	S	7	r	7	0	55	43	0.24	
PENINSULAR.	Lorient ...	29.74	49	W	5	0	29.43	- .13	51	48	+	3	S	7	r	5	0	52	45	0.04	
	Rocheport ...	29.83	46	W	3	0	29.73	+ .05	40	40	-	8	SSE	5	0	#	0	52	39	-	
	Belfort ...	*	*	*	*	*	29.92	+ .08	30	30	+	4	N	1	bc	#	0	36	25	0.08	
	Lyons ...	29.89	33	SSW	1	0	29.84	+ .07	40	36	-	2	E	1	bc	2	0	54	37	-	
	Nice ...	29.72	43	E	2	0	29.86	+ .06	33	33	+	2	W	2	bc	#	0	55	31	-	
	Perpignan ...	29.75	50	SE	3	0	29.86	+ .06	33	33	+	2	W	2	bc	#	0	55	31	-	
	Biarritz ...	29.88	53	WSW	4	0	29.71	- .06	54	46	+	6	SW	6	c	5	0	57	45	0.04	
	Corunna ...	*	*	*	*	*	29.89	- .09	57	57	+	3	WSW	4	0	#	0	57	52	0.55	
	Lisbon ...	29.95	53	W	1	0	29.89	- .09	57	57	+	3	WSW	4	0	#	0	57	52	0.55	

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, 10<sup>th</sup> Dec: 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 6 to 7; → forces 1 to 4.

○ = dead calm.

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

≡ = Rough. ≡ = High.

## MEAN HEIGHT OF THE BAROMETER

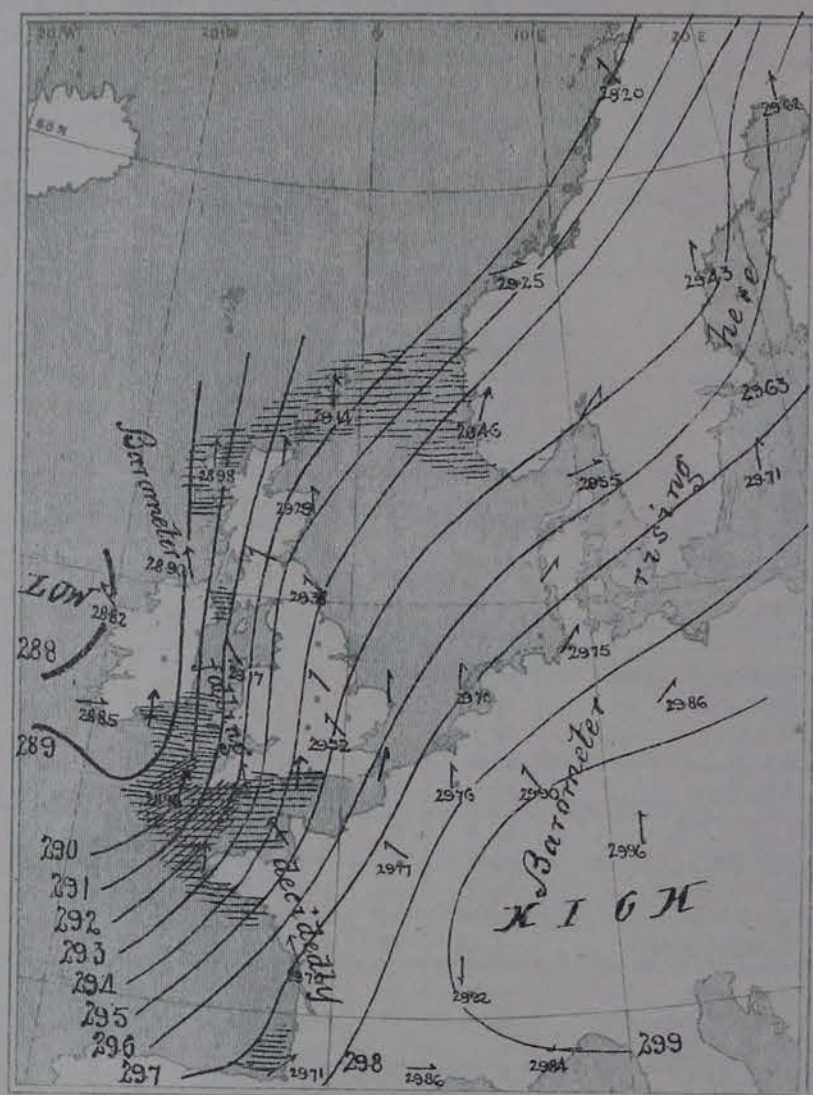
at 8.0 a.m. for the month of December.

During the 20 Years 1871—1890.

### STATIONS.

### MEAN READINGS.

STATIONS.	MEAN READINGS.
Sumburgh Head	29.673
Stornoway	29.705
Wick	29.718
Nairn	29.743
Aberdeen	29.767
Leith	29.807
Shields	29.845
Spurn Head	29.873
York	29.890
Loughborough	29.924
Ardrossan	29.820
Mullaghmore	29.821
Donaghadee	29.848
Holyhead	29.870
Liverpool	29.895
Parsonstown	29.901
Valencia	29.905
Roche's Point	29.912
Pembroke	29.916
Scilly	29.951
Prawle Point	29.970
Jersey	29.985
Hurst Castle	29.958
Dover	29.953
LONDON	29.954
Oxford	29.955
Cambridge	29.941
Yarmouth	29.916



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

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

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

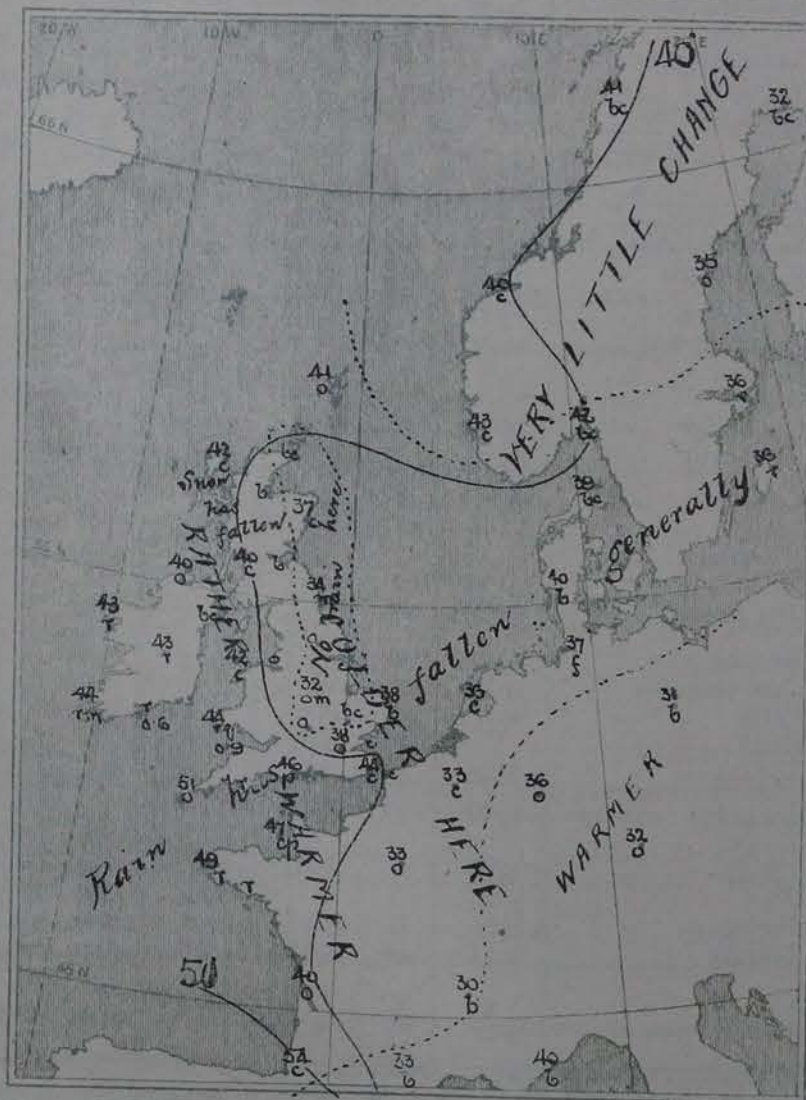
**RAINFALL**—A dotted line separates the districts in which rain has fallen from those where there has been none. Falls of 0.5 in. or more are quoted in figures.

### MEANS OF TEMPERATURE IN SHADE, AND RAINFALL

(For the month of December.)

STATIONS.	TEMPERATURE				RAINFALL (Inches.)
	Daily Max.	Daily Min.	Dry at 8 a.m.	Wet.	
Sumburgh Head	42.6	35.2	39.6	38.1	4.25
Stornoway	43.1	34.2	39.1	38.5	5.63
Wick	42.2	32.7	38.1	36.8	3.10
Nairn	41.9	32.8	37.1	35.6	1.95
Aberdeen	41.9	32.6	36.9	35.2	3.24
Leith	44.0	33.7	38.5	37.0	1.86
Shields	42.9	33.9	38.3	36.9	2.57
Spurn Head	42.4	35.3	38.8	37.1	2.14
York	42.3	32.3	36.1	35.4	2.28
Loughborough	42.7	32.2	36.3	35.4	2.24
Ardrossan	44.5	35.9	40.0	38.7	3.73
Mullaghmore	46.5	37.8	42.2	39.8	4.51
Donaghadee	45.8	36.2	40.2	39.3	2.84
Holyhead	46.4	39.1	42.8	41.1	3.82
Liverpool	43.5	35.6	38.8	37.1	1.59
Parsonstown	44.7	33.1	37.8	36.6	3.04
Valencia	49.7	40.0	44.6	42.4	5.99
Roche's Point	47.9	38.0	42.9	41.5	4.95
Pembroke	46.8	40.3	43.6	42.2	3.99
Scilly	49.5	43.4	47.0	45.1	4.02
Prawle Point	47.0	38.2	42.5	41.1	3.76
Jersey	47.3	39.3	43.1	41.4	3.82
Hurst Castle	45.6	36.3	40.6	39.8	2.78
Dover	44.3	35.9	39.8	38.6	3.00
LONDON	44.0	33.9	37.8	36.7	2.10
Oxford	42.9	33.5	37.0	35.9	2.10
Cambridge	42.8	31.6	36.2	35.5	1.88
Yarmouth	41.9	33.7	37.9	37.0	2.06

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 upwards, over the coast of France and southern parts of Germany.  
 Lowest, 28.8 ins. and less, in a depression off the west of Ireland; 28.9 ins. and less, in a secondary disturbance near the mouth of the  
 Salween Channel.  
 Gradients steep over the west and southwest of our Islands, but moderate or slight elsewhere.  
 Barometer falling on our west and southwest coasts and to a less extent in the west of France, but rising in most other parts of Western Europe.

## TEMPERATURE

Highest, 57° at Lisbon, 54° at Rangoon, 51° at Bombay and Port, and 49° at Port.  
 Lowest, (1) 30° at Lyons, 31° at Berlin, 32° at Harar, and 33° at Brussels and Paris; (2) 32° at Loughborough, and 33° at Leith and York.  
 Frost occurred last night in many parts of Great Britain; in London the thermometer on the grass fell to 26°.

## WIND

S or SE over the greater part of our Islands, with a gale in Ireland and the southwest of England.  
 Light or moderate from the S or SW over Scandinavia, Denmark and North Germany.  
 Variable in the south of France.

## WEATHER

Fine in the northern and eastern parts of Great Britain, as well as in Norway, Denmark, and the south of France.  
 Cloudy or overcast elsewhere with rain in all the more southwestern parts of the United Kingdom.  
 Showers fell yesterday in many parts of our Islands, and heavy rain set in at night over the south of England. Lightning  
 was seen at the North of Ireland.

## SEA

Very high at Skilly, high or rough on our southwest coasts generally, rough off the north of Scotland, and rather rough at the entrance  
 but moderate to slight elsewhere.

## PROBABLE CHANGES IN SYSTEM, NOW PREVALENT

# FORECASTS

For the 24 hours ending at NOON on 11<sup>TH</sup> DEC<sup>R</sup> 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 7.10 pm yesterday to districts 5 and 7 to 10, and at 9.20 am today to districts 0 to 3 & 6, 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. Direc.	F.	WEA.	SEA.		BAR.	THER.		WIND. Direc.	F.	WEA.	SEA.
		Dry.	Wet.							Dry.	Wet.				
Skudesnaes ...	29.08	45	42	SSW	3	f	7	Valencia ...	29.42	41	39	SW	5	oghrp	5
Sumburgh Head ...	28.64	40	38	WNW	4	o	6	Scilly ...	29.42	46	42	WSW	6	c	6
Stornoway ...	28.94	39	36	W	4	c	4	Jersey ...	29.56	46	43	SW	5	bc	5
Aberdeen ...	28.98	40	36	SW	3	bc	4	Hurst Castle ...	29.46	46	43	WSW	4	bc	4
Shields ...	29.15	43	39	SW	3	bc	2	Dungeness ...	29.45	47	44	W	3	bc	2
Ardrossan ...	29.12	40	39	WSW	4	o	4	North Foreland ...	29.45	44	42	NW	2	b	2
Malin Head ...	29.10	40	38	WSW	5	o	4	London ...	29.43	46	42	WSW	2	b	*
Mullaghmore ...								Yarmouth ...	29.36	42	40	W	2	b	3
Belmullet ...	29.23	40	37	W	5	op	*	Rocheport ...	29.70	50	47	NW	3	b	*
Holyhead ...	29.29	42	40	WSW	3	c	3								

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

Weather fine over the greater part of England, but showery in Ireland and Scotland, with snow at Stornoway. Dull at most of the Continental stations, with fog in Austria and South Germany, rain in the south of Norway, the Netherlands, and the southwest of France, and snow at St. Petersburg. Fine and bright over the Central parts of Russia and Germany. Showers falling during day in many parts of the United Kingdom, and heavy rain setting in at night on our southwest coasts. Considerable quantities of rain falling also in Portugal and at most of the Adriatic stations.

Temperature fallen in our Islands and also in many parts of central and southern Europe, but risen elsewhere. Morning readings, highest 60° at Malta, 58° at Barcelona and 56° at Brindisi and Ravenna; above 45° in the west of France. Lowest (1) -5° at St. Petersburg, +3° at Moscow and 19° at Kiev; (2) 15° at Munich and 17° at Brest; below the freezing point in nearly all parts of Russia and Central Europe, and below 40° over the greater part of the United Kingdom. Daily maxima below 45° in all the more northern parts of our Islands, and below 50° at most of our southern stations. Thermometers exceeding 50° in Spain and the west of France, & exceeding 60° in the south of Italy. Frost occurring over the United Kingdom at night.

Wind light to fresh from the W<sup>nd</sup> or SW<sup>nd</sup> over the greater part of our Islands and the west of France, but NW in the north of Scotland. Strong to a gale from the S<sup>nd</sup> or SE<sup>nd</sup> over Scandinavia and Denmark, and light or moderate from the same quarters in Germany and the north of Russia. Variable in Austria; N over the northern and central parts of Italy, but S in the south of that country, and also in Spain and Algeria. Backing to the S<sup>nd</sup> or SE<sup>nd</sup> on our southwest coasts at night, and increasing to a fresh or strong gale.

Barometer highest 30.5 in. and upwards in a large anticyclone lying over Russia; 30.0 in. and upwards in another system over Algeria and the southern parts of the Spanish Peninsula. Lowest 28.3 in. and less, in a depression lying to the northward of the Netherlands (gradients steep over Norway and the northern parts of the North Sea); 29.7 in. and less, in a shallow system off the west of Italy. Neither depression subsequently travelling away to the northward, but new disturbance approaching our western coasts 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 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.

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" Weekly " " " " £1 10 0 "



# DAILY WEATHER REPORT

for 8 a.m. on Monday, 11<sup>th</sup> December, 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 82° F. and Sea Level.	Dry Bulb.		Dir.	Force (0 to 12).	Reading at 82° 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.	
		Ina.	°				Ina.	°	°	°							°	Ina.			
SCANDINAVIA.	Haparanda ...	29.73	36	SW	4	0	29.90	+28	32	31	0	S	2	0	#	0	34	30	0.04		
	Hernösand ...	29.73	34	S	4	6	29.90	+47	19	18	-16	Z	0	6	#	6	37	?	-		
	Stockholm ...	29.87	34	Z	0	0	30.00	+37	31	31	-5	Z	0	6	#	0	37	31	-		
	Wisby ...	?	36	W	2	0	30.02	+31	35	34	-1	SSW	2	6	#	0	39	32	0.08		
	Bodö ...	29.48	37	SE	2	6	29.65	+45	36	33	-5	E	2	6	1	6	41	34	-		
	Christiansund...	29.49	40	SSE	3	6	29.48	+23	44	?	+4	ESE	4	6	4	6	45	37	-		
	Skudesnaes ...	29.53	43	SSE	8	6	29.52	+06	42	40	-1	SSE	8	6	4	6	45	39	-		
	Christiania Fjord (Færder)	29.74	41	SSE	4	6	29.78	+28	39	37	-3	ESE	5	0	4	6	45	39	-		
	Skagen (The Scaw)	29.81	37	SW	2	0	29.76	+21	39	38	0	SSW	3	6	0	0	39	29	-		
	Fanö ...	29.69	37	S	6	6	29.67	+02	36	35	-4	SSE	6	0	#	0	41	36	0.04		
BRITISH ISLANDS.	Sumburgh Head	29.05	42	SSE	5	0	29.08	-06	42	40	+1	SSE	4	0	5	0	45	39	0.11		
	Stornoway ...	28.69	41	SE	7	0	28.93	-05	39	38	-3	SE	6	6	5	0	44	33	0.04		
	Wick ...	28.74	43	S	9	0	29.08	-05	40	39	+1	S	4	6	7	0	44	37	0.05		
	Nairn ...	28.67	42	SE	3	0	29.08	-07	37	39	0	WSW	3	6	2	0	43	33	0.05		
	Aberdeen ...	28.84	42	SE	9	0	29.22	-07	38	35	+1	SSW	3	6	6	0	45	36	0.10		
	Leith ...	28.66	42	S	6	0	29.24	-03	38	37	+5	SSW	2	6	#	0	49	31	0.03		
	Shields ...	28.96	42	SSE	7	0	29.29	-09	35	35	+1	SW	2	6	4	0	42	34	0.34		
	Spurn Head ...	29.19	45	S	5	0	29.31	-15	43	42	+1	SSE	4	6	4	0	46	36	0.10		
	York ...	29.09	44	S	2	0	29.32	-09	36	35	+3	WSW	1	6	#	0	44	32	0.17		
	Loughborough	29.22	45	SSW	5	0	29.32	-15	42	41	+10	SSE	3	6	#	0	48	32	0.13		
GERMANY & HOLLAND.	Ardrossan ...	28.67	45	SW	7	0	29.22	+06	42	40	+2	SSW	4	6	3	0	46	39	0.04		
	Malin Head ...	28.61	41	W	7	0	29.15	+25	36	35	-4	SW	5	6	3	0	42	35	0.30		
	Mullaghmore ...	28.95	43	W	5	0	29.24	+42	36	35	-7	SW	2	6	#	0	44	35	0.50		
	Belmullet ...	28.77	42	SW	5	0	29.26	+13	34	33	-11	SW	4	6	3	0	47	31	0.33		
	Donaghadee ...	29.09	45	SW	5	0	29.36	+08	38	32	-2	Z	0	6	1	0	46	33	0.38		
	Holyhead ...	29.09	45	WSW	7	0	29.33	+16	40	38	-2	WSW	2	6	3	0	48	39	0.29		
	Parsonstown ...	29.09	38	SW	3	0	29.34	+46	33	31	-10	Z	0	6	#	0	44	32	0.27		
	Valencia ...	29.19	45	SW	7	0	29.43	+58	36	35	-8	SSE	2	6	4	0	47	34	0.20		
	Roche's Point	29.10	43	W	5	0	29.44	+81	38	36	-10	HW	2	6	4	0	49	34	0.05		
	Pembroke (St. Ann's Hd.)	29.22	47	WSW	7	0	29.40	+47	43	41	-1	W	4	6	5	0	50	33	0.95		
FRANCE AND BELGIUM.	Scilly ...	29.30	49	SW	5	0	29.45	+47	45	41	-6	WSW	3	6	4	0	51	41	0.06		
	Prawle Point ...	29.38	48	W	5	0	29.48	+27	39	39	-8	WSW	3	6	2	0	51	38	0.24		
	Jersey (St. Aubin's)	29.46	50	WSW	5	0	29.50	+06	48	44	+1	HW	4	6	4	0	52	46	0.02		
	Hurst Castle ...	29.39	47	WSW	6	0	29.42	+02	44	43	-2	W	6	6	6	0	50	44	0.06		
	Dungeness ...	29.41	47	SSW	7	0	29.47	-11	48	48	+4	SSW	5	6	5	0	48	43	0.04		
	North Foreland	29.43	46	S	5	0	29.44	-14	46	44	+3	S	4	6	3	0	46	42	0.14		
	London ...	29.34	48	SSW	3	0	29.42	-10	47	45	+9	SSW	2	6	#	0	48	38	0.09		
	Oxford ...	29.39	43	SW	3	0	29.39	-06	43	42	+5	SW	4	6	#	0	49	38	0.43		
	Cambridge ...	29.31	45	SSE	8	0	29.38	-15	46	45	+11	SSE	4	6	#	0	47	34	0.03		
	Yarmouth ...	29.36	42	S	8	0	29.44	-14	44	43	+6	S	4	6	4	0	44	36	0.03		
PENINSULA.	Cuxhaven ...	29.79	39	S	5	0	29.73	-02	37	37	0	S	3	0	#	0	40	37	-		
	Berlin ...	29.94	29	S	2	6	29.91	+05	28	27	-3	NE	2	6	#	6	36	28	-		
	Wiesbaden ...	#	#	#	#	#	29.83	-07	38	32	-3	Z	0	6	#	0	39	32	-		
	Munich ...	29.88	36	E	1	0	29.92	-04	25	25	-7	NE	1	6	#	0	37	25	-		
	The Helder ...	29.60	39	SSE	5	0	29.62	-08	40	39	+4	SE	1	6	1	0	41	36	0.08		
	Brussels (9 a.m.)	#	#	#	#	#	29.62	-14	42	41	+9	SSE	4	6	#	0	44	33	-		
	Cape Gris Nez	29.49	44	SSW	6	0	29.49	-13	46	45	+8	S	4	6	4	0	45	37	0.04		
	Paris ...	29.64	45	SSE	3	0	29.67	-10	44	42	+11	S	3	6	#	0	47	?	-		
	Brest ...	?	56	W	5	0	?	?	46	45	-3	HW	3	6	5	0	59	?	0.16		
	Lorient ...	29.52	52	SW	4	0	29.50	+07	47	45	-4	HW	5	6	4	0	52	46	0.12		
FRANCE AND BELGIUM.	Rochefort ...	29.69	50	W	5	0	29.56	-17	45	44	+5	S	4	6	#	0	?	40	0.12		
	Belfort ...	?	30	E	1	0	?	?	32	31	+1	E	1	6	#	0	34	28	-		
	Lyons ...	29.87	42	SSW	1	0	29.76	-16	47	45	+17	S	3	6	#	0	50	30	-		
	Nice ...	29.96	45	Z	0	0	29.97	+13	45	44	+5	E	4	6	3	0	54	44	0.08		
	Perpignan ...	29.89	42	W	2	0	29.75	-11	40	40	+7	SW	2	6	#	0	53	35	-		
	Biarritz ...	29.72	57	SW	5	0	29.56	-15	57	52	+3	SW	4	6	3	0	57	52	0.12		
PENINSULA.	Corunna ...	#	#	#	#	#	29.93	-07	53	50	-6	HW	4	6	#	0	61	52	1.93		
	Lisbon ...	29.77	58	SW	5	0	29.93	-07	53	50	-6	HW	4	6	#	0	61	52	1.93		

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, 11<sup>th</sup> Dec<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

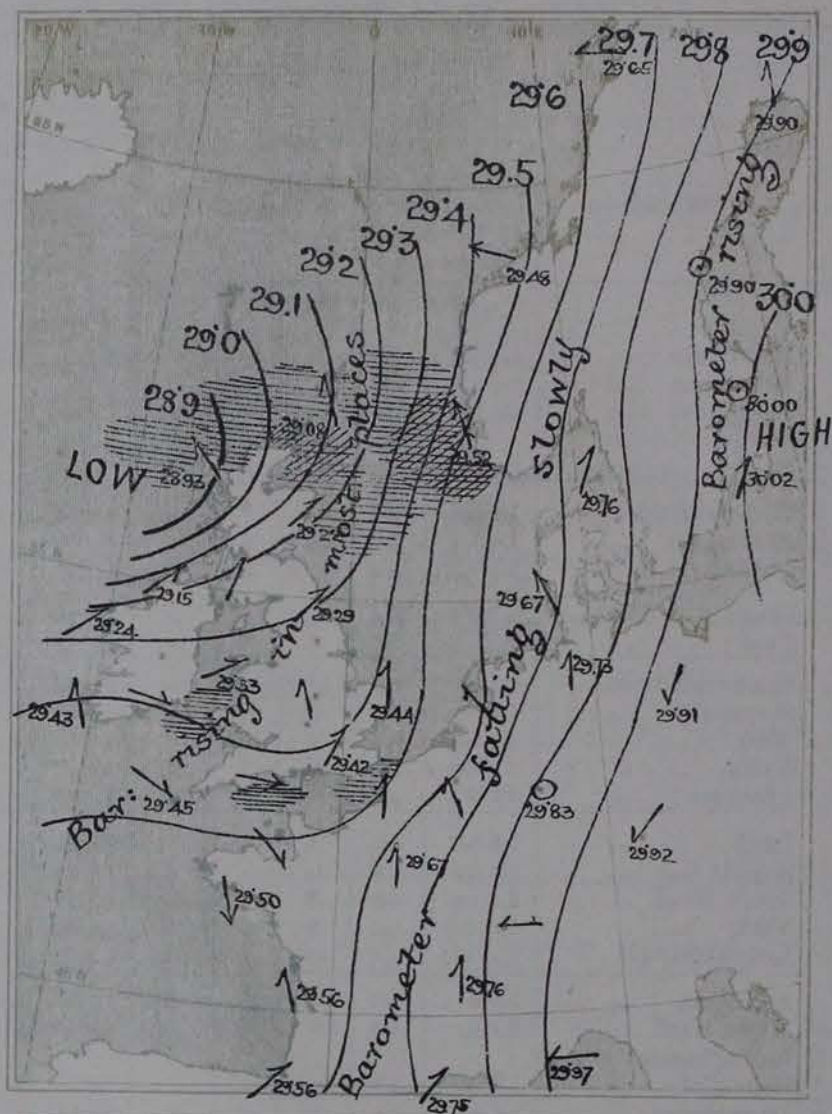
at 8 a.m. for the month of December.

During the 20 Years 1871—1890.

#### STATIONS.

#### MEAN READINGS.

STATIONS.	MEAN READINGS.
Sumburgh Head	29.673
Stornoway	29.705
Wick	29.718
Nairn	29.743
Aberdeen	29.707
Leith	29.807
Shields	29.845
Spurn Head	29.873
York	29.890
Loughborough	29.924
Androssan	29.890
Mullaghmore	29.821
Donaghadee	29.848
Holyhead	29.879
Liverpool	29.805
Parsonstown	29.901
Valencia	29.905
Roche's Point	29.912
Pembroke	29.910
Selly	29.931
Prasle Point	29.970
Jersey	29.983
Hurst Castle	29.978
Dover	29.953
LONDON	29.954
Oxford	29.955
Cambridge	29.941
Yarmouth	29.916



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

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

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

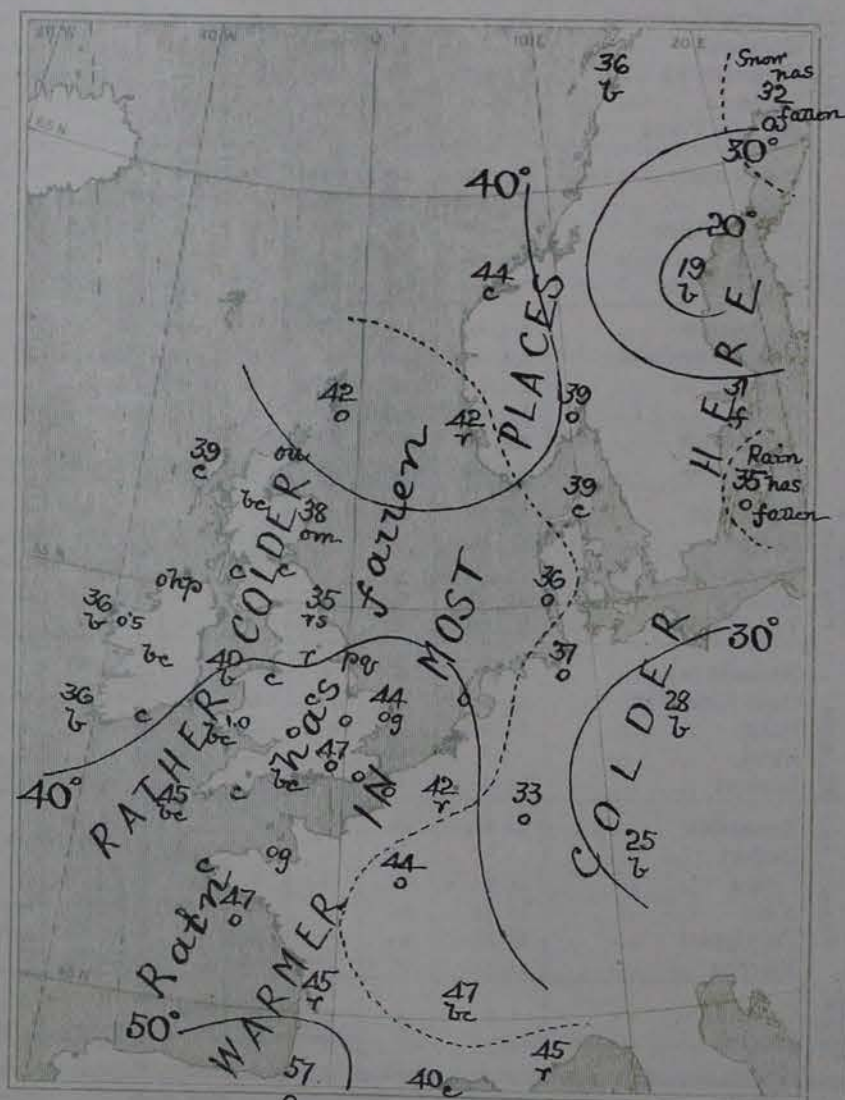
**RAINFALL**—A dotted line separates the districts in which rain has fallen from those where there has been none. Falls of 0.5 in. or more are quoted in figures.

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

(For the month of December.)

STATIONS.	TEMPERATURE.				RAINFALL (Inches.)
	Daily Max.	Daily Min.	Daily Avg.	Wind.	
Sumburgh Head	42.6	35.2	39.6	38.1	4.25
Stornoway	43.1	34.2	39.4	38.5	5.63
Wick	42.2	32.7	38.1	36.8	3.10
Nairn	41.9	32.8	37.1	35.6	1.95
Aberdeen	41.9	32.6	36.8	35.2	3.24
Leith	44.0	39.7	38.5	37.0	1.86
Shields	42.9	33.9	38.3	36.9	2.57
Spurn Head	42.4	35.3	38.8	37.1	2.14
York	42.3	32.3	36.4	35.4	2.28
Loughborough	42.7	32.2	36.3	35.4	2.24
Androssan	44.5	35.9	40.0	38.7	3.73
Mullaghmore	46.5	37.8	42.2	39.8	4.51
Donaghadee	45.8	36.2	40.2	39.3	2.84
Holyhead	46.4	36.1	42.3	41.1	3.82
Liverpool	43.5	35.0	38.8	37.1	2.59
Parsonstown	44.7	33.1	37.8	36.6	3.04
Valencia	49.7	40.0	44.6	42.1	5.99
Roche's Point	47.9	38.0	42.9	41.5	4.95
Pembroke	46.8	40.3	43.0	42.2	3.99
Selly	49.5	43.1	47.0	45.1	4.02
Prasle Point	47.0	38.2	42.3	41.1	3.76
Jersey	47.3	39.3	43.1	41.4	3.82
Hurst Castle	45.6	36.3	40.6	39.8	2.78
Dover	44.3	35.0	39.8	38.0	3.00
LONDON	44.0	33.9	38.8	36.7	2.10
Oxford	42.9	33.5	37.0	35.9	2.10
Cambridge	42.8	31.0	36.2	35.5	1.88
Yarmouth	41.9	33.7	37.9	37.0	2.06

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 upwards over the Baltic; 29.5 in: and upwards over the southern parts of the Spanish Peninsula.  
 Lowest, 28.9 in: and less, in a depression lying off the northwest of Scotland; secondary disturbances are passing across England and the Channel.  
 Gradients slight generally, but moderate over Scotland and the North Sea.  
 Barometer rising in most parts of the United Kingdom, and also in Sweden, but falling elsewhere.

## TEMPERATURE

Highest, 57° at Biarritz, 48° at Jersey and Dieppe, and 47° in London and at Orient and Lyons.  
 Lowest, (1) 19° at Helsingfors, 25° at Munich, 28° at Berlin, and 31° at Stockholm; 33° at Copenhagen, 34° at Danagrad and 35° at Shields.  
 Frost occurred last night over the northern and central parts of the United Kingdom.

## WIND

S<sup>W</sup> (southeasterly to southwesterly) over the greater part of Western Europe; moderate to fresh in force generally, but blowing a gale in the south of Norway.  
 W<sup>1</sup> in the south and southwest of England; variable in Germany.  
 In the course of the past 24 hours a fresh to strong gale from the SE<sup>2</sup> or S<sup>2</sup> has blown on nearly all our coast, and a whole gale in the north of Scotland.

## WEATHER

Fine at present in nearly all parts of the United Kingdom, but showery with rain and sleet in the northeast of England.  
 Dull at most of the Continental stations, with rain at Skiedeneas, Brussels, and Rotterdam; fine in Germany and Central France.  
 Since yesterday morning rain has fallen over the whole of our Islands, the largest amounts being 1.0 inch at Bunkerside and 0.5 in: at Bilmullet.  
 Lightning was seen at Jersey last night.

## SEA

High at Skiedeneas and Wick, and rough or rather so on most parts of our northern and southern coasts.

## PROBABLE CHANGES IN SYSTEM NOW PREVALENT

The appearance is very unsettled, for although the barometer is at present rising in most places the wind at Valencia has backed to the S<sup>W</sup>.

Further depressions are probably approaching our islands from the southwestward.

## FORECASTS

For the 24 hours ending at NOON on 12<sup>th</sup> December, 1893.

DISTRICTS.	FORECASTS.	DISTRICTS.	FORECASTS.
1 SCOTLAND NORTH	S <sup>W</sup> and SE <sup>W</sup> winds, strong; changeable; some rain.	5 SCOTLAND WEST	Same as Nos 1 and 2.
2 SCOTLAND EAST	SW <sup>2</sup> to S <sup>2</sup> winds, freshening; changeable, some rain.	7 ENGLAND N.W.	
3 ENGLAND N.E.		8 ENGLAND S.W.	W <sup>2</sup> to S <sup>2</sup> winds, increasing in force; fair to dull and some rain.
4 ENGLAND EAST	SW <sup>2</sup> to S <sup>2</sup> winds, strong in places; unsettled, showery.	9 IRELAND NORTH	S <sup>2</sup> winds, increasing; unsettled, some rain.
5 MIDLAND COUNTIES		10 IRELAND SOUTH	
6 ENGLAND SOUTH		WARNINGS	The SOUTH CONE is still 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.	F.	WEA.	SEA.		BAR.	THER.		WIND.	F.	WEA.	SEA.
		Dry.	Wet.	Dir.						Dry.	Wet.	Dir.			
Skudesnaes ...	29.54	44	40	SSE	7	c	5	Valencia ...							
Sumburgh Head								Scilly ...							
Stornoway ...	28.82	42	39	SE	7	0	6	Jersey ...	29.37	49	48	SSE	7	o qf	6
Aberdeen ...								Hurst Castle ...							
Shields ...								Dungeness ...	29.42	45	44	SSW	8	c	6
Ardrossan ...								North Foreland ...	29.44	43	40	S	8	r	6
Malin Head ...	28.63	39	39	SSW	3	0	2	London ...							*
Mullaghmore ...								Yarmouth ...							
Belmullet ...	28.73	44	41	W	5	6c	#	Rochefort ...	29.57	47	45	SSE	5	c	*
Holyhead ...	28.76	46	44	SSE	9	7q m	7								

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

Weather in morning fine in the south and east of Scotland and in many parts of Scandinavia, Denmark, Germany and France. Very unsettled over Ireland, England and Brittany, with rain at most of the western stations. Considerable rain at our western stations later (0.95 in. at Penmarch) and smaller quantities over Ireland and Scotland and the west of France, with some wet snow at some of the English stations - Sky clearing over many parts of England at night.

Temperature changing considerably and very frequently over the British Islands and their neighbourhood. Morning readings. Highest 60° at Malta, and 50° or more over the southern half of the Mediterranean generally, 54° at Biarritz, 51° at Lorient and Scilly; 40° to 45° over Ireland and the western coasts of Scotland and Norway. Lowest -10° F. at Kharlov, -3° at Moscow, +16° at Archangel, 22° at Kiev, 30° at Cracow, 31° at Prague and Berlin, 32° at Loughborough. Touching 50° or a little more on the southern coasts of England later, and 45° to 48° in most other parts of our Islands - but changing fitfully all day.

Wind very light in force and variable in direction over eastern, central and southern Europe, S<sup>W</sup> to SE<sup>W</sup> over our Islands and France, and blowing a gale at several of our western stations. Strong gales from SE and S. experienced over our western and northern districts later, and fresh to moderate gales elsewhere - Wind lulling over England as night came on, but blowing hard in Scotland.

Barometer Highest 30.3 ins. and more to 30.5 ins. over Russia; 30.1 ins. and more to 30.5 ins. over Algeria and the southeastern half of Spain, and exceeding 29.9 ins. over southern Germany, Switzerland and the southeast of France. Lowest about 28.8 ins. off the west of Ireland, and 28.9 ins. in a small depression at the mouth of the St. Georges Channel, 29.2 ins. and less off the west of Norway. The depression in the southwest moving quickly to the northward later and increasing in depth. Barometer falling to 28.4 ins. at Wick at night.

## SUMMARY OF CHANGES IN THE WEATHER OVER THE BRITISH ISLANDS AND THEIR NEIGHBOURHOOD FROM THE 3<sup>rd</sup> TO 9<sup>th</sup> DEC. 1893.

The weather of last week was again very unsettled, with considerable fluctuations in temperature and with frequent falls of rain in nearly all parts of the Kingdom. In the west and north the aggregate rainfall was large but in other districts the amounts were mostly slight.

At the beginning of the week a large anticyclone spread over our Islands from the southwestward in the rear of a depression which travelled southeastwards across the eastern part of the North Sea. The wind was therefore NW<sup>W</sup>, with fine weather over England, but with dull, misty weather in most other localities. After the 4<sup>th</sup> the anticyclone moved away in a S<sup>W</sup> and SE<sup>W</sup> direction and for the remainder of the week the weather was influenced by some large depressions which moved along our western and northern coasts. Of these the most important were; -

- (1) A large and deep system which skirted the north of Scotland on the 6<sup>th</sup> and which occasioned strong SW<sup>W</sup> gales on our western north and northwest coasts generally.
- (2) A very deep depression which advanced from the southwestward to the west of Scotland on the night of the 7<sup>th</sup> and which afterwards moved away to the northwards. The progress of this system was attended by S<sup>W</sup> and SW<sup>W</sup> gales on most coasts, - the gales being very severe in Scotland. At 4 p.m. on the 8<sup>th</sup> when the centre of the disturbance passed close to the Hebrides the barometer at Stornoway fell to a minimum of 27.97 ins.

At the close of the week the wind was backing to the S<sup>W</sup> again in the west of Ireland, and on the night of the 9<sup>th</sup> another depression advanced towards our Atlantic 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 **TUESDAY, 12<sup>TH</sup> DECEMBER, 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.			Dirac.	Force (0 to 12).	Dry Bulb.	Wet Bulb.	Change in dry since Yesterday.			Dirac.	Force (0 to 12).		Max.	Min.		
		Inch.	°				Inch.	°	°	°						°	Inch.				
SCANDINAVIA.	Haparanda ...	30.13	31	2	0	0	30.14	+24	29	29	-3	2	0	0	*	0	26	28	—		
	Hernösand ...	30.01	22	2	0	0	30.04	+14	36	33	+17	2	4	0	*	0	36	18	—		
	Stockholm ...	30.06	34	2	0	0	30.03	+03	37	34	+6	SE	2	0	*	0	37	24	—		
	Wisby ...	30.07	36	SE	4	0	30.01	-01	37	36	+2	SE	4	0	*	0	37	32	—		
	Bodö ...	29.71	33	ENE	6	6	29.74	+09	34	31	-2	ENE	6	0	*	0	37	27	—		
	Christiansund...	29.47	42	SE	8	0	29.54	+06	42	39	-2	SE	4	0	4	0	44	41	—		
	Skudesnaes ...	29.45	43	SE	8	7	29.53	+01	41	39	-1	ENE	2	0	4	0.7	44	39	—		
	Christiania Fjord (Færdar)	29.38	38	ENE	6	7	29.62	-16	35	34	-4	ENE	6	7	4	7	39	34	—		
	Skagen (The Scaw)	29.71	40	S	4	0	29.58	-18	39	38	0	S	4	7	1	0	41	36	0.24		
	Fanö ...	29.58	37	SE	6	0	29.58	-09	37	37	+3	NW	6	0	*	0	41	36	0.20		
BRITISH ISLANDS.	Sumburgh Head	29.10	41	WNW	2	0	29.33	+25	38	36	-4	SE	1	0	4	0.0	40	34	0.06		
	Stornoway ...	29.18	33	NW	6	0	29.15	+22	38	36	-1	SE	6	0	5	0	40	32	0.21		
	Wick ...	29.23	34	NW	3	0	29.22	+14	39	38	-1	S	5	0	CU	0	40	30	—		
	Nairn ...	29.22	35	WNW	1	bc	29.18	+10	35	33	-2	SE	2	0	1	bc	39	29	0.01		
	Aberdeen ...	29.29	34	WNW	2	bc	29.23	+01	36	35	-2	SE	6	0	0.75	6	40	29	0.09		
	Leith ...	29.34	36	SW	2	bc	29.14	-10	36	35	-2	SE	4	0	*	bc	41	31	0.07		
	Shields ...	29.42	38	SW	3	bc	29.29	0.0	37	36	+2	S	3	0	2	m. fog	41	30	—		
	Spurn Head ...	29.50	38	WNW	2	bc	29.44	+13	40	38	-3	S	4	0	4	c. bc	42	34	—		
	York ...	29.47	36	W	1	bc	29.39	+05	37	36	+1	ENE	3	0	*	bc	42	30	0.01		
	Loughborough	29.54	33	S	0	bc	29.45	+13	40	39	-2	SE	3	7	*	bc	42	29	0.01		
GERMANY & HOLLAND.	Ardrossan ...	29.33	41	SW	3	bc	29.08	-14	42	41	0	WNW	5	0	4	c. fog	42	34	0.01		
	Malin Head ...	29.26	37	S	6	bc	29.03	-12	37	36	+1	S	4	0	2	c. fog	38	34	0.03		
	Mullaghmore ...	29.32	36	SE	6	bc	29.14	-10	42	38	+6	WNW	3	bc	*	bc	42	34	0.05		
	Belmullet ...	29.41	32	SW	3	bc	29.11	-15	38	37	+4	SW	4	0	2	bc	42	32	0.22		
	Donaghadee ...	29.41	32	SW	3	bc	29.11	-15	38	37	+4	SW	4	0	2	bc	42	32	0.22		
	Liverpool (Bldston)	29.50	35	S	2	bc	29.29	-07	39	38	+6	SE	3	0	1	bc	39	32	—		
	Holyhead ...	29.45	41	SW	2	bc	29.23	-10	45	42	+5	SW	4	0	3	bc	46	38	0.11		
	Parsonstown ...	29.39	34	SW	1	bc	29.19	-15	37	36	+4	2	0	bc	*	bc	40	32	—		
	Valencia ...	29.29	42	ENE	5	7	29.22	-21	43	41	+9	WNW	2	bc	4	bc	46	32	0.30		
	Roche's Point	29.39	42	SW	5	bc	29.21	-23	43	42	+5	N	1	0	4	c. fog	45	36	0.10		
FRANCE AND BELGIUM.	Pembroke (St. Ann's Hd.)	29.47	43	SW	3	bc	29.23	-17	47	47	+4	SW	5	0	6	bc	48	40	0.32		
	Scilly ...	29.32	46	WNW	2	bc	29.18	-27	49	47	+4	SW	5	0	6	c. bc	51	44	0.75		
	Prawle Point ...	29.60	43	WNW	3	bc	29.39	-09	48	48	+9	SW	7	0	6	c. bc	49	37	0.24		
	Jersey (St. Aubin's)	29.62	43	WNW	2	bc	29.62	+12	48	48	0	SE	6	bc	5	bc	48	42	0.05		
	Hurst Castle ...	29.59	41	WNW	1	bc	29.53	+11	48	46	+4	SW	7	0	5	c. bc	49	36	—		
	Dungeness ...	29.53	41	NW	2	0	29.65	+18	46	44	-2	SW	6	0	4	0	48	36	0.02		
	North Foreland	29.53	41	WNW	3	0	29.65	+21	42	41	-4	S	5	0	5	0.0	48	36	—		
	London ...	29.55	38	W	1	0	29.56	+14	46	44	-1	S	6	0	5	0.0	48	33	0.03		
	Oxford ...	29.58	36	SW	1	bc	29.48	+09	43	42	0	S	2	0	5	c. bc	43	33	0.10		
	Cambridge ...	29.53	37	WNW	1	bc	29.54	+16	41	40	-5	SE	5	0	5	bc	48	30	0.01		
PENIN- SULA.	Yarmouth ...	29.49	40	WNW	2	bc	29.56	+12	43	42	-1	S	4	0	4	bc	45	33	0.01		
	Cuxhaven ...	29.69	40	SE	3	0	29.71	-02	41	41	+4	W	4	0	*	0	42	37	0.16		
	Berlin ...	29.84	32	NE	3	bc	29.81	-10	34	33	+6	SE	1	0	*	bc	34	28	—		
	Wiesbaden ...	*	*	*	*	*	29.83	+10	39	35	+6	SW	1	0	*	*	37	33	0.08		
	Munich ...	29.78	26	E	2	m	29.99	+07	37	37	+12	SW	5	0	*	m	37	29	0.04		
	The Helder ...	29.53	43	W	1	7	29.77	+15	39	38	-1	S	2	0	2	7	45	37	0.47		
	Brussels (9 a.m.)	*	*	*	*	*	29.87	+25	36	36	-6	SW	4	0	*	7	47	35	0.32		
	Cape Gris Nez	29.50	44	N	4	0	29.67	+18	38	37	-8	S	5	0	5	0	48	37	0.08		
	Paris ...	29.57	47	NW	4	0	29.91	+24	38	37	-6	SW	4	0	*	0	46	36	0.63		
	Brest ...	*	44	NW	3	0	29.91	+24	38	37	-6	S	6	0	6	0	52	37	0.04		
FRANCE AND BELGIUM.	Lorient ...	29.69	45	SW	3	bc	29.65	+15	37	37	+4	SW	7	0	6	bc	52	45	0.04		
	Rocheport ...	29.80	46	NW	4	0	29.93	+13	41	40	-4	SE	4	0	*	0.0	54	39	0.39		
	Belfort ...	29.80	43	W	3	0	29.93	+13	41	37	+9	W	1	0	*	0	43	32	0.12		
	Lyons ...	29.65	53	S	4	7	29.06	+30	38	37	-9	N	1	0	*	7	55	37	0.20		
	Nice ...	29.92	50	E	2	7	29.87	-10	50	50	+5	SW	1	0	4	7	50	45	0.95		
	Perpignan ...	*	*	*	*	*	29.93	+43	45	41	-12	S	5	0	5	7	59	41	0.98		
PENIN- SULA.	Biarritz ...	29.91	50	W	5	7	29.93	+43	45	41	-12	S	5	0	5	7	59	41	0.98		
	Corunna ...	*	*	*	*	*	29.19	+26	33	30	0	SW	3	0	*	bc	37	48	—		
PENIN- SULA.	Lisbon ...	30.17	52	WNW	3	bc	30.19	+26	33	30	0	SW	3	0	*	bc	37	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 Tuesday, 12<sup>th</sup> Dec<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.

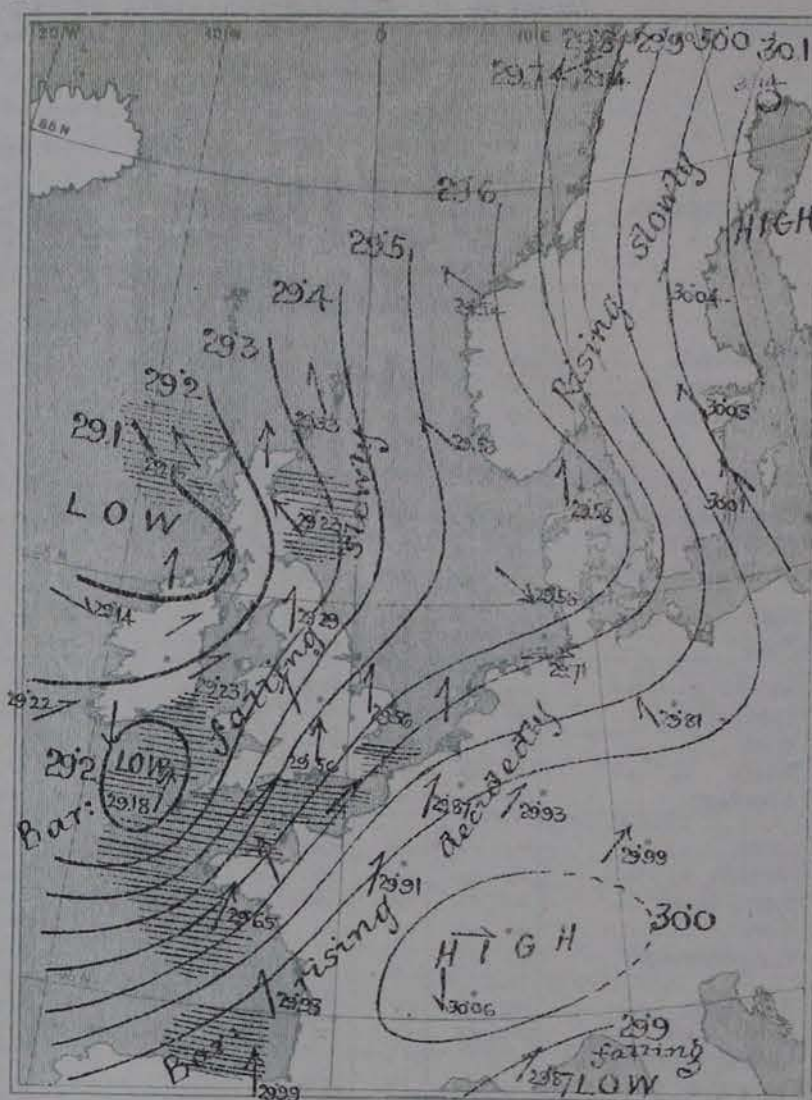
## MEAN HEIGHT OF THE BAROMETER

at 8.0 a.m. for the month of December,  
During the 20 Years 1871-1890.

### STATIONS.

### MEAN READINGS.

STATIONS.	MEAN READINGS.
Sumburgh Head	29.673
Stornoway	29.705
Wick	29.718
Nairn	29.743
Aberdeen	29.707
Leith	29.807
Shields	29.845
Spurn Head	29.873
York	29.890
Loughborough	29.924
Ardrossan	29.820
Mullaghmore	29.821
Donaghadee	29.848
Holyhead	29.879
Liverpool	29.805
Parsonstown	29.901
Valencia	29.905
Roche's Point	29.912
Pembroke	29.916
Scilly	29.951
Prawle Point	29.970
Jersey	29.985
Hurst Castle	29.958
Dover	29.953
LONDON	29.954
Oxford	29.955
Cambridge	29.941
Yarmouth	29.910



## 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.

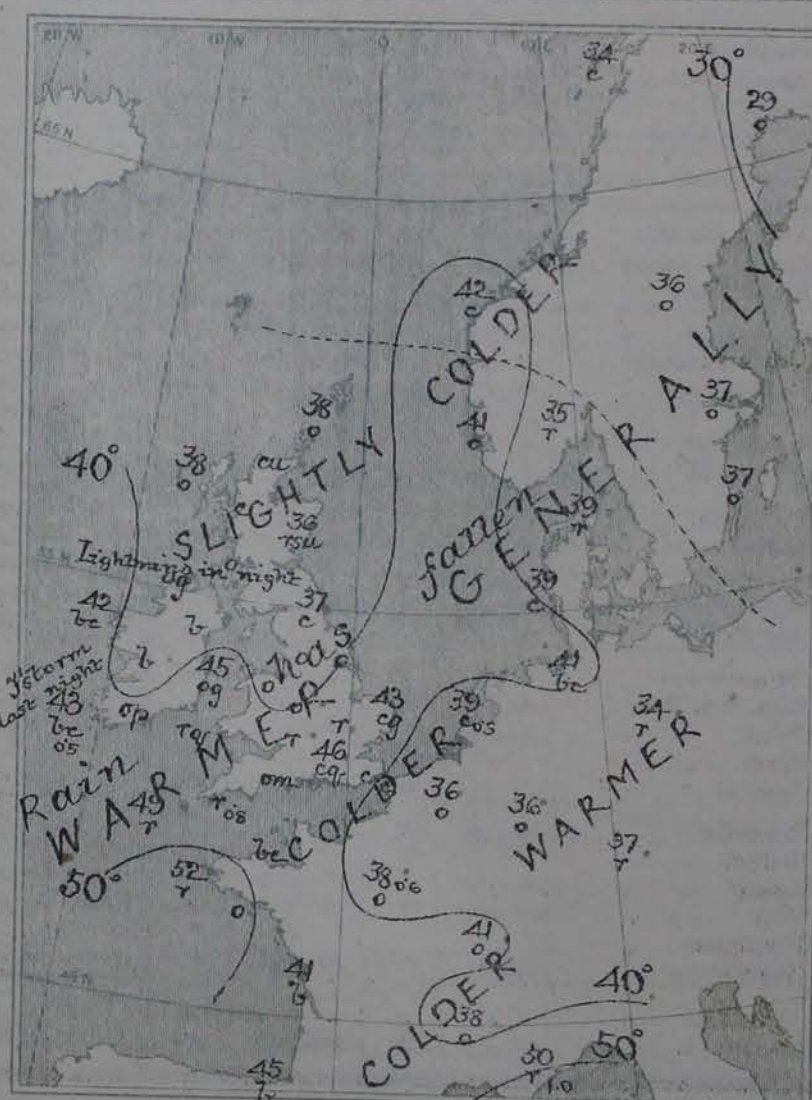
**RAINFALL**—A dotted line separates the districts in which rain has fallen from those where there has been none. Falls of 0.5 in. or more are quoted in figures.

## MEANS OF TEMPERATURE IN SHADE, AND RAINFALL.

(For the month of December.)

STATIONS.	TEMPERATURE				RAINFALL (Inches.)
	Daily Max.	Daily Min.	Dry, at 8 a.m.	Wet, at 8 a.m.	
Sumburgh Head	42.6	35.2	30.6	38.1	4.25
Stornoway	43.1	34.2	30.1	38.5	5.63
Wick	42.2	32.7	38.1	36.8	3.10
Nairn	41.9	32.8	37.1	35.6	1.95
Aberdeen	41.9	32.6	36.0	35.2	3.24
Leith	44.0	33.7	38.5	37.0	1.86
Shields	42.9	33.9	38.3	36.9	2.57
Spurn Head	42.4	35.3	38.8	37.7	2.14
York	42.3	32.3	36.4	35.4	2.28
Loughborough	42.7	32.2	36.3	35.4	2.24
Ardrossan	44.5	35.0	40.0	38.7	3.73
Mullaghmore	46.3	37.8	42.2	39.8	4.51
Donaghadee	45.8	36.2	40.2	39.3	2.84
Holyhead	46.4	39.1	42.8	41.1	3.82
Liverpool	43.5	35.6	38.8	37.1	1.59
Parsonstown	44.7	33.1	37.8	36.6	3.04
Valencia	49.7	40.0	44.6	42.4	5.00
Roche's Point	47.9	38.9	42.9	41.5	4.95
Pembroke	46.8	40.3	43.6	42.2	3.99
Scilly	49.5	43.4	47.0	45.1	4.02
Prawle Point	47.0	38.2	42.5	41.1	3.76
Jersey	47.3	39.3	43.1	41.4	3.82
Hurst Castle	45.6	36.3	40.6	39.8	2.78
Dover	44.2	35.9	39.8	38.6	3.00
LONDON	44.0	35.9	39.8	38.6	2.10
Oxford	42.9	33.5	37.0	35.9	2.10
Cambridge	42.8	31.6	36.2	35.5	1.88
Yarmouth	41.9	33.7	37.9	37.0	2.00

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, 30.1 mm. and upwards, over the Gulf of Bothnia and also over the southern parts of the Spanish Peninsula.  
 Lowest, 29.1 mm. and less in a depression lying off our extreme northwest coasts; 29.2 mm. and less, in a well marked secondary depression in the mouth of the English Channel.  
 Gradients rather steep over England, the Channel, and the west and north of France; moderate or slight elsewhere.  
 Barometer falling in most parts of our Islands, but steadily in the west of Ireland; rising at the Continental stations.

## TEMPERATURE

Highest, 53° at Lisbon, 52° at Rheims, 51° at Lisieux, 50° at Kelly, 49° at Harve Point, Jersey, and Mount Castle.  
 Lowest, (1) 29° at Hafnarvatn, 34° at Bodö and Berlin, and 35° at Tander; (2) 35° at Kain, and 36° at Aberdeen and Leith.  
 Frost occurred last night in many parts of Great Britain; at Loughborough the thermometer on the grass fell to 20°, and in London to 25°.

## WIND

S<sup>4</sup> over England and the greater part of France, with a moderate gale at the Channel stations.  
 Variable in the south of Ireland; strong from the SE<sup>2</sup> in the north and east of Scotland, and moderate from the same quarter in some parts of the west of Scotland.  
 SW<sup>3</sup> or W<sup>3</sup> at most of the German stations; variable in the south of France.

## WEATHER

Rainy in the central and southwestern parts of England and also in the northwest of France.  
 Fair in several parts of Ireland and Scotland, but sleet reported at Aberdeen.  
 Cloudy at most of the Continental stations, with rain in Germany as well as at Tander, Skagen, and Kiel; fine in the northwestern part of France.  
 In the course of the past 24 hours sleet or hail has fallen in many parts of Western Europe, the largest amounts being 1.0 in. at Nîmes and Clermont, 0.8 in. at Le Mans, and 0.6 in. at Paris. A Solar halo was seen at Oxford yesterday; a thunderstorm occurred at Valencia (Spain), and lightning at Malin Head.

## SEA

Rough or rather so off the north of Scotland, the south and southwest of England and the west of France, but moderate or slight elsewhere.

## PROBABLE CHANGES IN SYSTEM NOW PREVALENT

The depression off our northwest coasts will probably move northwards. Strong gales from the S<sup>2</sup> and SW<sup>2</sup> are likely to occur over the English Channel, and increasing winds on our east coasts.

## FORECASTS

For the 24 hours ending at NOON on 13<sup>TH</sup> DEC<sup>R</sup> 1893.

### DISTRICTS.

### FORECASTS.

0	SCOTLAND NORTH	SE <sup>2</sup> strong winds or gales; unsettled, some rain or sleet.
1	SCOTLAND EAST	
2	ENGLAND N.E.	S <sup>2</sup> winds, increasing in force; squally and rainy to fair.
3	ENGLAND EAST	
4	MIDLAND COUNTIES	S <sup>2</sup> to SW <sup>2</sup> strong winds and gales; squally and rainy to fair.
5	ENGLAND SOUTH	

### DISTRICTS.

### FORECASTS.

6	SCOTLAND WEST	S <sup>2</sup> and SW <sup>2</sup> winds, fresh or strong; squally, showery.
7	ENGLAND N.W.	
8	ENGLAND S.W.	SW <sup>2</sup> to W <sup>2</sup> strong winds and gales; squally, showery.
9	IRELAND NORTH	SW <sup>2</sup> and W <sup>2</sup> winds, changeable, showery.
10	IRELAND SOUTH	
WARNINGS		At 7.25 pm yesterday to all coasts Hoist South Cone again.

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 ...	29.52	44	41	SE	0	0	7	Valencia ...	29.45	44	44	W	0	Shp	2
Sumburgh Head ...	29.14	42	40	SEW	0	0	5	Scilly ...	29.48	44	44	W	0	Shp	4
Stornoway ...	29.08	34	34	2	0	0	4	Jersey ...	29.57	47	44	W	0	Shp	5
Aberdeen ...	29.24	37	35	SEW	2	6	5	Hurst Castle ...	29.52	43	41	SEW	2	C	4
Shields ...	29.35	41	38	SEW	0	m	3	Dungeness ...	29.47	47	46	W	2	0	4
Ardrossan ...	29.27	41	40	SEW	4	C	3	North Foreland ...	29.40	44	43	W	2	0	5
Malin Head ...	29.24	35	35	WSEW	3	Shp	3	London ...	29.50	43	40	W	2	om	*
Mullaghmore ...	29.31	40	38	WSEW	3	Shp	*	Yarmouth ...	29.42	43	44	WSEW	2	of	4
Belmullet ...	29.31	40	38	WSEW	3	Shp	*	Rochefort ...	29.37	46	44	W	6	0	*
Holyhead ...	29.41	44	39	WSEW	0	6	3								

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

Weather in morning fine over the greater part of the United Kingdom, but rain and sleet reported in the northeast of England. Dull in most of the Continental countries, with fog at several of the Russian, German and Austrian stations, rain in the south of Norway, Belgium, and some parts of France, and snow at St. Petersburg. Fine and bright over Italy and the south of Russia. Rain setting in at night over the southwest of our Islands, and spreading northwards and eastwards; thunderstorms occurring at Valencia, and lightning at Malin Head. Heavy rain falling at some of the French stations.

Temperature risen in France, Spain, and the eastern parts of our Islands, but fallen in most other localities. Morning readings highest 60° at Malta, 58° at Oran and Algiers, 57° at Biarritz, and 56° at Sanguinaires, above 45° in the Channel Islands and the southeast of England. Lowest, 6° Fahr. at Khar'kov, -3° at Moscow, +10° at Archangel, and 13° at Nicolaioff, below the freezing point at some of the German stations, and very little above it in central Ireland and the north of England. Daily maxima slightly below 40° at some of our own northern and northwestern stations, and below 45° in all but the extreme southern districts. Frost occurring in many parts of Britain at night.

Wind S<sup>3</sup> (SW to SE) over the greater part of western and northern Europe; moderate to fresh in force generally, but blowing a gale in the south of Norway. Light from the W<sup>2</sup> in the southwest of England, and moderate to strong from the NW<sup>2</sup> in Portugal. Variable in Austria and South Germany. N<sup>1</sup> over the greater part of Italy; variable in the south of France; S<sup>3</sup> in Algeria. Subsequently, veering to the W<sup>2</sup> in the north of Scotland, but backing to the SE<sup>2</sup> in the west of Ireland, and increasing considerably in force.

Barometer highest 30.2 ins. and upwards in an anticyclone lying over Central Russia; 30.0 ins. and upwards over the whole of Russia, Austria, Italy, and the adjacent parts of the Mediterranean. Lowest 28.9 ins. and less, in a depression off the northwest of Scotland; secondary disturbances reported over various parts of our Islands and the Bay of Biscay. Depressions in north subsequently travelling northwards, but new disturbance approaching the coast of Ireland at 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.

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

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" Weekly " " " £1 10 0 "



# DAILY WEATHER REPORT

for 8 a.m. on Wednesday, 13<sup>th</sup> December, 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.		
				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).
Inch.	°			Inch.	°	°	°	°						Inch.						
SCANDINAVIA.	Haparanda ...	30.22	30	SW	2	0	30.14	00	28	28	- 1	S	2	0	#	0	36	28	-	
	Hernösand ...	29.99	34	S	6	0	29.85	- 14	35	33	- 1	W	0	0	#	0	43	21	0.28	
	Stockholm ...	29.89	36	SE	2	1	29.94	- 04	34	33	- 3	W	0	0	#	1	37	32	0.24	
	Wisby ...	29.93	37	SE	4	1	29.96	- 05	37	35	0	WNW	4	0	#	1	37	32	0.04	
	Bodö ...	29.74	33	ESE	6	0	29.65	- 09	35	31	+ 1	E	3	0	2	0	36	27	-	
	Christiansund...	29.58	38	ESE	2	6	29.37	- 17	42	37	0	SE	6	0	4	6	43	27	-	
	Skudesnaes ...	29.47	42	SSE	8	1	29.30	- 23	42	41	+ 1	SSE	10	1	1	1	43	39	-	
	Christiania Fjord (Færd)	29.78	37	WSW	3	6	29.70	+ 08	39	38	+ 4	ESE	6	0	4	6	39	35	-	
	Skagen (The Scaw)	29.93	38	SW	3	6	29.68	+ 10	39	38	0	SSW	4	0	1	6	43	36	0.12	
	Fanö ...	29.72	38	SSW	6	0	29.54	- 04	35	34	- 4	SE	6	0	#	0	43	34	-	
BRITISH ISLANDS.	Sumburgh Head	29.05	41	SSE	3	6	28.98	- 35	38	37	0	SSE	1	0	4	1	42	35	0.20	
	Stornoway ...	29.00	33	W	0	0	28.91	- 24	34	34	- 4	H	2	0	3	0	38	29	0.04	
	Wick ...	29.00	38	W	1	6	28.93	- 29	39	38	0	SW	2	0	3	6	39	33	0.05	
	Nairn ...	29.02	37	W	0	6	28.92	- 26	33	31	- 2	E	1	0	1	6	40	28	-	
	Aberdeen ...	29.11	37	W	2	6	28.96	- 27	38	35	+ 2	SE	2	0	4	6	41	30	0.12	
	Leith ...	29.13	35	S	1	6	28.86	- 28	36	34	- 1	E	3	0	#	6	42	28	0.03	
	Shields ...	29.18	38	S	3	1	28.87	- 42	40	39	+ 3	SE	3	0	3	0	41	32	0.34	
	Spurn Head ...	29.11	43	SSE	6	1	29.02	- 42	45	44	+ 5	S	4	0	4	1	45	37	0.20	
	York ...	29.18	43	SSE	1	1	28.93	- 44	44	43	+ 7	E	1	0	#	1	44	35	0.52	
	Loughborough	29.05	43	WSW	1	1	29.03	- 42	48	47	+ 8	SSW	4	0	#	1	48	36	0.48	
BRITISH ISLANDS.	Ardrossan ...	29.11	43	SSW	3	6	28.78	- 30	34	34	- 8	NE	4	0	2	0	43	33	0.15	
	Malin Head ...	29.09	40	SSW	4	0	28.67	- 36	37	37	0	ESE	7	0	4	0	43	35	0.20	
	Mullaghmore ...	29.13	40	WSW	2	6	28.62	- 52	41	40	- 1	H	6	0	#	6	44	35	0.42	
	Donaghadee ...	29.18	35	S	3	6	28.67	- 44	44	42	+ 6	SE	6	0	2	6	44	34	0.10	
	Liverpool (Bidston)	29.20	36	W	1	6	28.86	- 43	46	44	+ 7	SSE	3	0	2	6	46	35	0.49	
	Holyhead ...	29.19	43	WSW	2	6	28.75	- 48	51	50	+ 6	SSW	5	0	5	0	52	37	0.17	
	Parsonstown ...	29.20	37	SW	1	0	28.52	- 67	48	47	+ 11	SE	1	0	#	0	49	35	0.45	
	Valencia ...	29.18	46	SE	4	0	28.63	- 59	51	50	+ 8	SW	6	0	6	0	53	40	0.62	
	Roche's Point	29.25	45	WSW	2	0	28.67	- 54	50	50	+ 7	SW	8	0	6	0	50	43	0.50	
	Pembroke (St. Ann's Hd.)	29.27	43	HW	3	6	28.83	- 40	53	51	+ 6	SSW	7	0	7	6	53	42	0.57	
BRITISH ISLANDS.	Scilly ...	29.32	47	SW	4	0	29.03	- 15	54	52	+ 5	SSW	6	0	7	0	55	45	0.55	
	Prawle Point ...	29.37	45	W	4	0	29.15	- 24	52	52	+ 4	WSW	6	0	5	0	53	43	0.30	
	Jersey (St. Aubin's)	29.42	47	SW	8	0	29.36	- 26	54	54	+ 6	S	6	0	6	0	54	46	0.77	
	Hurst Castle ...	29.31	46	SW	6	6	29.20	- 33	46	46	- 2	SW	7	0	7	0	54	43	0.46	
	Dungeness ...	29.38	46	SSW	10	1	29.27	- 38	51	51	+ 5	SW	6	0	6	0	57	44	0.22	
	North Foreland	29.41	46	S	10	1	29.26	- 39	53	51	+ 11	SSW	4	0	4	0	53	41	0.25	
	London ...	29.25	42	SSW	9	1	29.19	- 37	53	53	+ 7	SSW	4	0	#	0	53	40	0.37	
	Oxford ...	29.28	42	SSW	3	6	29.10	- 38	52	51	+ 9	S	2	0	#	0	52	40	0.33	
	Cambridge ...	29.12	46	SSE	10	1	29.13	- 41	50	49	+ 9	SSW	6	0	#	0	51	39	0.22	
	Yarmouth ...	29.36	43	SSE	9	1	29.18	- 38	48	47	+ 5	SSW	5	0	5	0	48	41	0.22	
GERMANY & HOLLAND.	Cuxhaven ...	29.82	39	SSE	3	0	29.63	- 08	37	35	- 4	S	4	0	#	0	36	32	-	
	Berlin ...	30.00	35	SW	1	0	29.90	+ 09	32	31	- 2	SE	2	0	#	0	39	32	0.04	
	Wiesbaden ...	29.99	33	W	0	0	29.83	- 10	35	34	- 4	SE	1	0	#	0	41	32	-	
	Munich ...	29.99	33	W	0	0	29.97	- 02	28	28	- 9	S	1	0	#	0	39	28	0.12	
	The Helder ...	29.63	38	SSE	6	0	29.42	- 35	41	40	+ 2	SSE	5	0	3	0	46	37	0.12	
	Brussels (9 a.m.)	29.47	44	W	4	0	29.47	- 40	44	44	+ 8	SSE	8	0	#	0	44	36	0.04	
	Cape Gris Nez	29.43	45	S	7	0	29.31	- 36	47	47	+ 9	SSW	7	0	7	0	45	38	0.12	
	Paris ...	29.73	44	S	5	0	29.59	- 32	50	49	+ 12	SSW	4	0	#	0	50	38	0.24	
	Brest ...	29.50	51	W	5	0	29.48	- 17	54	53	+ 2	W	7	0	8	0	59	45	1.46	
	Lorient ...	29.50	51	W	5	0	29.48	- 17	54	54	+ 3	SSW	7	0	7	0	52	46	0.67	
FRANCE AND BELGIUM.	Rochefort ...	29.75	47	S	6	1	29.80	- 13	54	53	+ 13	W	5	0	#	0	54	41	0.20	
	Belfort ...	29.75	37	E	2	6	29.75	- 13	42	39	+ 1	E	1	0	#	0	43	36	0.08	
	Lyons ...	30.00	37	SW	1	6	29.99	- 07	41	38	+ 3	S	2	0	#	0	47	33	-	
	Nice ...	29.93	48	W	0	0	30.08	+ 21	42	39	- 8	W	2	0	3	0	54	39	0.28	
	Perpignan ...	29.96	46	NE	2	0	30.09	+ 21	43	42	-	W	2	0	#	0	57	40	-	
	Biarritz ...	29.96	46	NE	2	0	30.09	+ 21	43	42	-	W	2	0	#	0	57	40	-	
	Corunna ...	30.21	57	SW	4	0	30.22	+ 03	57	56	+ 4	SSW	4	0	#	0	59	53	0.12	
	Lisbon ...	30.21	57	SW	4	0	30.22	+ 03	57	56	+ 4	SSW	4	0	#	0	59	53	0.12	

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, 13<sup>th</sup> Dec. 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.

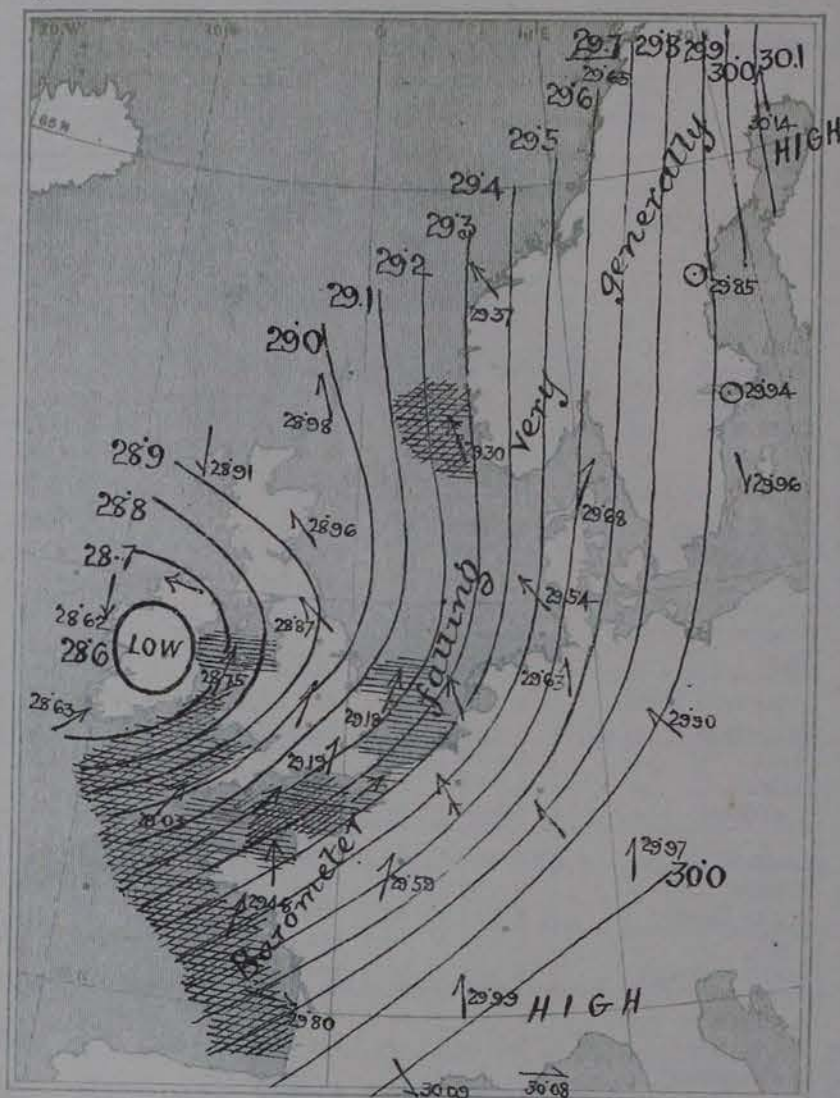
## MEAN HEIGHT OF THE BAROMETER

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

### STATIONS.

### MEAN READINGS.

STATIONS.	MEAN READINGS.
Sumburgh Head	29.073
Stornoway	29.705
Wick	29.718
Nairn	29.743
Aberdeen	29.767
Leith	29.807
Shields	29.845
Spurn Head	29.873
York	29.890
Loughborough	29.924
Ardrossan	29.820
Mullaghmore	29.821
Donaghadee	29.848
Holyhead	29.879
Liverpool	29.895
Parsonstown	29.901
Valencia	29.905
Roche's Point	29.912
Pembroke	29.916
Scilly	29.951
Prawle Point	29.970
Jersey	29.985
Hurst Castle	29.958
Dover	29.953
LONDON	29.954
Oxford	29.955
Cambridge	29.941
Yarmouth	29.910



## 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.

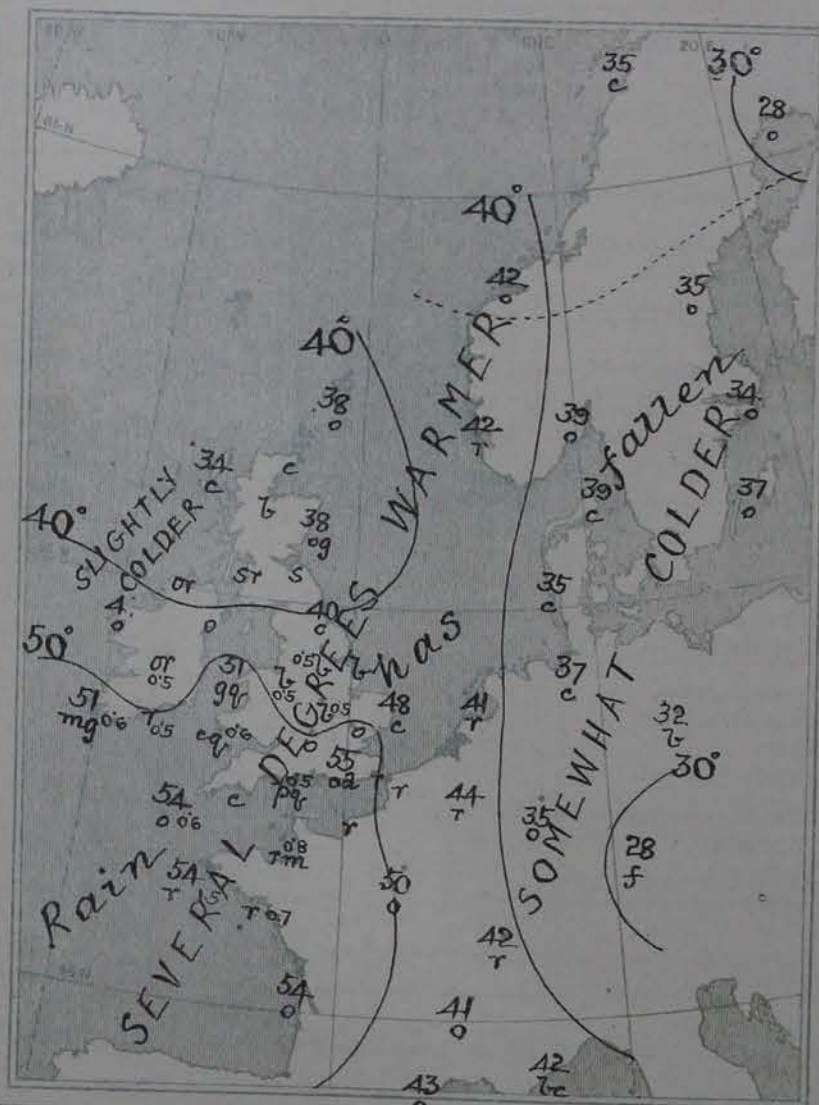
**RAINFALL**—A dotted line separates the districts in which rain has fallen from those where there has been none. Falls of 0.5 in. or more are quoted in figures.

## MEANS OF TEMPERATURE IN SHADE, AND RAINFALL.

(For the month of December.)

STATIONS.	TEMPERATURE.				RAINFALL. (Inches.)
	Daily Max.	Daily Min.	Dry at 8 a.m.	Wet at 8 a.m.	
Sumburgh Head	42.6	35.2	39.0	38.1	4.25
Stornoway	43.1	34.2	39.4	38.5	5.03
Wick	42.2	32.7	38.1	36.8	3.10
Nairn	41.9	32.8	37.1	35.6	1.95
Aberdeen	41.9	32.6	36.9	35.2	3.24
Leith	44.0	33.7	38.5	37.0	1.86
Shields	42.9	33.9	38.3	36.9	2.57
Spurn Head	42.4	35.3	38.8	37.7	2.14
York	42.3	32.3	36.4	35.4	2.28
Loughborough	42.7	32.2	36.3	35.4	2.24
Ardrossan	44.5	35.9	40.0	38.7	3.73
Mullaghmore	46.5	37.8	42.2	39.8	4.51
Donaghadee	45.8	36.2	40.2	39.3	2.84
Holyhead	46.4	39.1	42.8	41.1	3.82
Liverpool	43.5	35.6	38.8	37.1	2.59
Parsonstown	44.7	33.1	37.8	36.6	3.04
Valencia	49.7	40.0	44.6	42.4	5.09
Roche's Point	47.9	38.9	42.9	41.5	4.95
Pembroke	46.8	40.3	43.6	42.2	3.89
Scilly	49.5	43.4	47.0	45.1	4.02
Prawle Point	47.0	38.2	42.5	41.1	3.76
Jersey	47.3	39.3	43.1	41.4	3.82
Hurst Castle	45.6	36.3	40.6	39.8	2.78
Dover	44.3	35.9	39.8	38.6	3.00
LONDON	44.0	33.9	37.8	36.7	2.10
Oxford	42.9	33.5	37.0	35.9	2.10
Cambridge	42.8	31.6	36.2	35.5	1.88
Yarmouth	41.9	33.7	37.9	37.0	2.06

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 upwards, over the southern parts of the Spanish Peninsula; 30.1 in. and upwards over the north of Sweden.  
Lowest, 28.6 in. and less, in a depression lying over Central Ireland.

Gradients steep over England, Ireland, the Netherlands, the North Sea, and the northern parts of France, but slight elsewhere.

Barometer falling generally, but rising again at Valencia (Ireland).

## TEMPERATURE

Highest, 57° at Lisbon, 54° at Lillo, Jersey, Brest, Lorient, and Rochefort and 53° at Penzance, the North Foreland and in London.

Lowest, (1) 28° at Naparanda, and 34° at Bodo and Stockholm; (2) 28° at Munich and 32° at Berlin; (3) 33° at Kain, and 34° at Hornoway and Andernach.

A considerable rise of temperature has taken place over Ireland and England, but a slight fall in Scotland.

## WIND

Strong from the SW<sup>2</sup> over all the more southern parts of our Islands, with a gale at Rock Point.

Strong from the SE<sup>2</sup> on the eastern shores of the North Sea, with a whole gale at Skudenæs; light or moderate from E in Scotland.

Calm or variable in Sweden and also in the south of France.

A severe gale from S or SW was experienced yesterday over the Channel and southeast of England.

## WEATHER

Cloudy or overcast generally, with rain in many places, and with snow or sleet in the south of Scotland. Fine at present over the north of England.

In the course of the past 24 hours heavy rain has fallen in many parts of our Islands and France, the largest amount being 1.5 in. at Brest, 0.8 in. at Jersey, 0.7 in. at Lorient, and 0.6 in. at Valencia, Penzance and Lillo.

## SEA

High off the southwest of England and the north and northwest of France, as well as at Skudenæs, and rough or nearly so on all parts of our coast, south and southeast coasts.

## PROBABLE CHANGES IN SYSTEM NOW PREVALENT

The depression over Ireland will probably move northwards and occasion further gales on many parts of our coasts, with squally rainy weather.

# FORECASTS

For the 24 hours ending at NOON on 14<sup>TH</sup> DEC<sup>R</sup> 1893.

DISTRICTS.	FORECASTS.	DISTRICTS.	FORECASTS.
† 0 SCOTLAND NORTH	{ SE <sup>2</sup> winds, increasing in force; snow or sleet at first, then milder and rainy.	† 6 SCOTLAND WEST	Same as Nos 0 and 1.
† 1 SCOTLAND EAST		† 7 ENGLAND N.W.	SE <sup>2</sup> to SW <sup>2</sup> strong winds and gales; squally, rainy.
† 2 ENGLAND N.E.	{ S <sup>2</sup> winds, increasing to a gale; fair to squally and rainy.	† 8 ENGLAND S.W.	SW <sup>2</sup> to W <sup>2</sup> gales; squally, rain at times.
† 3 ENGLAND EAST		† 9 IRELAND NORTH	SE <sup>2</sup> gales and strong winds; squally, rainy.
† 4 MIDLAND COUNTIES	{ SW <sup>2</sup> winds, increasing to a gale; squally, rain at times.	† 10 IRELAND SOUTH	Same as No 8.
† 5 ENGLAND SOUTH		WARNINGS	
		The <u>SOUTH CONE</u> is still flying on all our 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.	F.	WEA.	SEA.		BAR.	THER.		WIND.	F.	WEA.	SEA.
		Dry.	Wet.	Dir.						Dry.	Wet.	Dir.			
Skudesnaes ...	29.58	43	39	SS E	6	bc	4	Valencia ...	29.26	46	44	W S W	3	ov	4
Sumburgh Head ...	29.19	41	40	SS E	4	r	5	Scilly ...	29.23	48	45	W S W	5	o	6
Stornoway ...	29.03	34	32	SE	3	0	4	Jersey ...	29.38	48	46	S	9	o	7
Aberdeen ...	29.13	41	39	SS E	7	cgy	6	Hurst Castle ...	29.19	46	46	SS W	11	ogmt	8
Shields ...	29.20	41	40	S	3	0	2	Dungeness ...	29.49	47	44	SS W	8	c	6
Ardrossan ...	29.11	43	42	SS W	4	0	3	North Foreland ...	29.50	45	43	S	8	o	6
Malin Head ...	29.05	43	40	W	5	6	3	London ...	29.37	48	45	SS E	9	oggy	5
Mullaghmore ...								Yarmouth ...	29.46	44	42	S	6	cgy	
Belmullet ...	29.15	40	35	SW	2	6	#	Rochefort ...	29.81	44	43	S	4	c	#
Holyhead ...	29.18	41	40	SS E	2	0	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 over the central and northwestern parts of England, as well as at some of the French, German and Danish stations; sleet reported at Aberdeen. Fine and bright in many parts of Ireland and also in the southwest of France. Heavy rain falling later in many parts of England, Ireland and France, the largest amount being 1.5 in. at Brest.

Temperature risen over Ireland, England, Germany, and Sweden, but changed irregularly elsewhere. Morning readings highest 59° at Oslo, 58° at Malta, and 57° at Sanguinaria and Algiers; above 50° at most of the Mediterranean stations, and very little below it on the south and southwest coasts of England. Lowest 8° at Kharkov, 12° at Archangel, 19° at Kiev, and 21° at Nicolaiiff; below 40° on the northern part of the United Kingdom. Rising during day to a little above 50° at some of our southern stations, and to 55° or more in the west and south of France. Frost occurring over Scotland at night.

Wind S over England, the Netherlands and the greater part of France, with a moderate gale at the Channel stations, SE over Scotland, Scandinavia, and the Baltic, light from the W in the west of Ireland. Light from the SE over Austria, variable in Italy, the south of France, and Algeria. Subsequently increasing to a whole gale or "storm" over the Channel and southeast of England, backing to the SE in the south of Ireland, and increasing to a gale at night.

Barometer highest 30.4 in. and upwards in an anticyclone over the south of Russia. Lowest 29.1 in. and less, in a somewhat shallow depression off the west of Scotland; 29.2 in. and less, in a well marked secondary disturbance near the mouth of the Bristol Channel. Depression in northwest subsequently moving northwards, but secondary system advancing east-northeastwards across the south of England. New disturbance approaching the southwest of Ireland at 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.

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# DAILY WEATHER REPORT

for 8 a.m. on

Thursday, 14<sup>th</sup> December,

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 3).		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.		°	°							°	°		
SCANDINAVIA.	Haparanda ...	29.02	28	S	2	0	29.89	-25	25	24	-3	SE	2	0	#	0	34	25	-	
	Hernösand ...	29.84	33	Z	0	0	29.65	-20	35	33	-2	S	2	0	#	0	39	30	0.04	
	Stockholm ...	29.84	33	Z	0	0	29.58	-36	38	37	+1	SE	4	0	#	0	38	28	-	
	Wishy ...	29.81	36	SSE	4	0	29.62	-34	39	38	+1	SSE	2	0	#	0	39	32	-	
	Bodö ...	29.59	36	ESE	6	6	29.46	-19	36	31	+5	ESE	6	0	#	0	36	28	-	
	Christiansund...	29.23	44	SE	8	0	28.93	-44	44	38	+6	SE	6	0	#	0	45	39	-	
	Skudesnaes ...	29.06	44	SE	10	1	29.11	-19	43	40	+3	NW	9	0	5	1	45	41	-	
	Christiania Fjord (Fierder)	29.51	37	ESE	8	0	29.17	-53	43	40	+3	SSE	4	0	4	0	?	36	-	
	Skagen (The Scaw)	29.32	40	S	5	1	29.21	-47	43	43	+0	SW	2	m	1	1	43	37	0.12	
	Fanö ...	29.23	44	SE	6	0	29.34	-20	44	43	+1	SW	4	c	#	0	46	35	0.08	
BRITISH ISLANDS.	Sumburgh Head	28.83	36	N	2	1	29.08	+07	39	37	+2	NW	4	c	5	0.1	41	34	0.23	
	Stornoway ...	28.93	35	N	4	1	29.38	+47	40	39	+1	NW	6	c	5	0.1	40	30	0.04	
	Wick ...	28.81	38	NW	3	1	29.25	+32	37	36	+1	N	7	or spu	4	1	40	32	0.15	
	Nairn ...	28.88	38	NW	1	c	29.34	+42	39	37	+2	N	3	bc	2	0.1	40	31	0.12	
	Aberdeen ...	28.77	39	NW	6	0.09	29.39	+43	38	35	+3	N	5	bc p	4	0.19	40	33	0.23	
	Leith ...	28.81	36	N	1	1	29.49	+63	38	36	+2	NW	3	b	#	0.1	40	33	0.40	
	Shields ...	28.65	47	S	4	0	29.56	+69	38	36	+2	N	4	b	2	0.1	50	32	0.02	
	Spurn Head ...	28.92	49	SW	5	0	29.62	+60	38	35	+3	NW	4	bc	3	0.09	52	37	0.03	
	York ...	28.83	52	S	4	0	29.66	+73	34	33	+1	NW	1	b	#	0	54	32	0.01	
	Loughborough	28.99	49	SW	7	c	29.68	+65	35	33	+2	NW	3	c	#	0	55	34	0.05	
BRITISH ISLANDS.	Ardrossan ...	28.87	39	NNE	3	bm	29.58	+80	43	41	+2	NW	5	b	4	0.1	43	34	0.07	
	Malin Head ...	29.00	42	NW	5	op	29.67	+100	42	39	+3	NW	5	cp	3	0.1	43	37	0.05	
	Mullaghmore ...	29.17	42	NE	2	bc	29.80	+118	41	38	+3	NW	2	b	#	0.1	43	38	0.03	
	Donaghadee ...	28.95	42	E	7	b	29.69	+102	35	34	+1	N	4	b	3	0.1	47	33	0.39	
	Liverpool (Bidston)	28.97	44	N	5	0	29.72	+106	40	36	+4	NW	4	b	4	0	54	39	-	
	Holyhead ...	28.99	44	NW	5	0.09	29.83	+131	30	30	+0	SW	1	b	#	0.1	49	30	-	
	Parsonstown ...	29.19	38	Z	0	bc	29.92	+129	35	35	+0	NE	1	b	3	0.1	51	34	0.07	
	Valencia ...	29.21	47	N	4	c	29.89	+122	39	37	+2	NW	3	b	4	0	52	37	0.01	
	Roche's Point	29.17	45	NW	5	b	29.89	+122	39	37	+2	NW	3	b	4	0	52	37	0.01	
	Pembroke (St. Ann's Hd.)	29.04	47	NW	5	c	29.79	+109	42	40	+2	N	4	b	5	0	53	37	0.05	
BRITISH ISLANDS.	Scilly ...	29.14	49	NW	3	1	29.75	+122	48	44	+4	NNE	5	c	6	0.1	55	43	0.18	
	Prawle Point ...	29.19	51	NW	7	1	29.74	+121	40	39	+1	NW	2	c	2	0.1	54	39	0.45	
	Jersey (St. Aubin's)	29.31	54	SW	6	0.09	29.63	+127	47	46	+1	NW	5	og p m	5	0.1	58	46	0.11	
	Hurst Castle ...	29.19	50	SW	7	1	29.66	+146	42	40	+2	N	3	c	5	0.1	56	44	0.18	
	Dungeness ...	29.27	52	NW	7	c	29.59	+132	44	39	+5	NW	2	c	3	0.1	54	44	0.09	
	North Foreland	29.21	55	SW	6	bc	29.56	+130	43	41	+2	N	4	bc	3	0.1	55	41	0.40	
	London ...	29.16	54	SW	7	bc	29.65	+146	40	38	+2	N	2	bc	#	0.1	57	39	0.43	
	Oxford ...	29.15	49	SW	3	0	29.70	+160	39	36	+3	NW	1	0	#	0.1	56	38	0.03	
	Cambridge ...	29.08	55	S	8	c	29.65	+152	36	35	+1	NW	3	c	#	0.1	58	35	0.04	
	Yarmouth ...	29.08	52	SW	5	bc	29.58	+140	40	39	+1	NW	3	bm	5	0.1	54	39	0.21	
GERMANY & HOLLAND.	Cuxhaven ...	29.44	44	SSE	6	1	29.43	-20	49	49	+0	SW	5	bc	#	0	57	37	0.40	
	Berlin ...	29.71	38	S	2	0	29.69	-21	43	42	+1	SSW	3	0	#	0	43	32	-	
	Wiesbaden ...	#	#	#	#	#	29.74	-09	48	45	+3	SW	3	0	#	0	48	35	0.24	
	Munich ...	29.94	34	SW	3	b	29.89	-08	38	37	+1	SSE	4	0	#	0	38	28	0.04	
	The Helder ...	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#	
	Brussels (9 a.m.)	#	#	#	#	#	29.62	+15	49	46	+3	NW	4	0	#	0	56	43	0.16	
	Cape Gris Nez	29.30	50	SSW	6	1	29.56	+25	46	46	+0	N	3	0	#	0	54	39	0.24	
	Paris ...	29.58	54	SSW	6	0	29.67	+08	52	49	+3	SSW	4	0	#	0	56	?	0.28	
	Brest ...	?	54	NW	7	1	?	?	46	45	+1	NNE	4	0	5	1	50	43	0.20	
	Lorient ...	29.43	53	SW	7	1	29.62	+14	49	48	+1	NW	4	0	4	1	55	48	0.32	
FRANCE AND BELGIUM.	Rocheport ...	29.76	53	SW	5	0	29.80	-00	51	48	+3	NW	4	c	#	0	55	46	0.12	
	Belfort ...	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#	
	Lyons ...	29.99	47	S	2	0	29.91	-08	51	46	+5	S	5	0	#	0	52	41	0.04	
	Nice ...	30.12	47	E	1	c	30.09	+01	45	45	+0	ESE	2	0	3	0	54	42	-	
	Perpignan ...	30.00	44	SW	2	b	29.99	-10	44	43	+1	SW	2	0	#	0	52	41	-	
	Biarritz ...	29.87	60	SSW	6	c	29.94	-04	53	51	+2	Z	0	1	7	0	63	50	0.08	
	Corunna ...	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#	
	Lisbon ...	30.18	59	SSW	5	1	30.18	-04	55	51	+4	NW	4	bc	#	0	61	54	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 Thursday, 14<sup>th</sup> Dec<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:

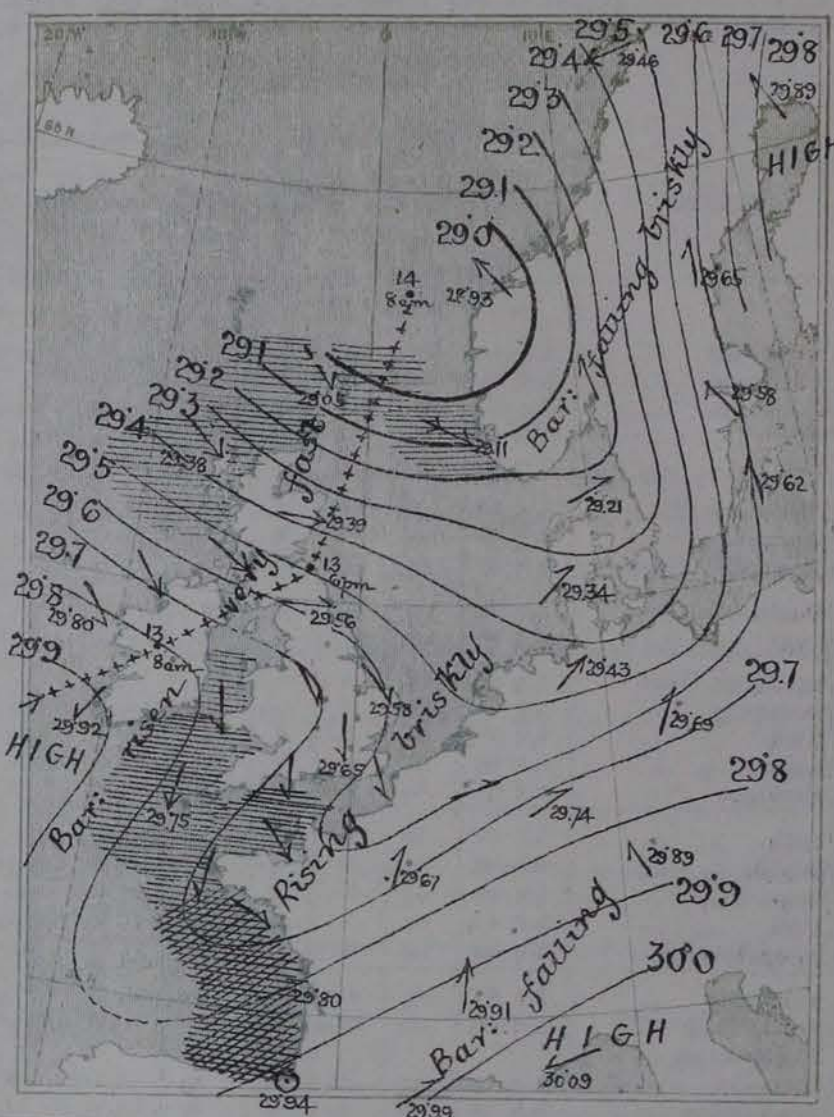
▨ = Rough. ▨ = High.

## MEAN HEIGHT OF THE BAROMETER

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

During the 20 Years 1871—1890.

STATIONS.	MEAN READINGS.
Sumburgh Head	29.673
Stornoway	29.705
Wick	29.718
Nairn	29.743
Aberdeen	29.767
Leith	29.807
Shields	29.845
Spain Head	29.873
York	29.890
Loughborough	29.924
Ardrossan	29.829
Mullagmore	29.821
Donaghadee	29.848
Holyhead	29.879
Liverpool	29.895
Parsonstown	29.901
Valencia	29.905
Roche's Point	29.912
Pembroke	29.916
Seilly	29.951
Pravle Point	29.970
Jersey	29.985
Hurst Castle	29.958
Dover	29.953
LONDON	29.954
Oxford	29.955
Cambridge	29.941
Yarmouth	29.916



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

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

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

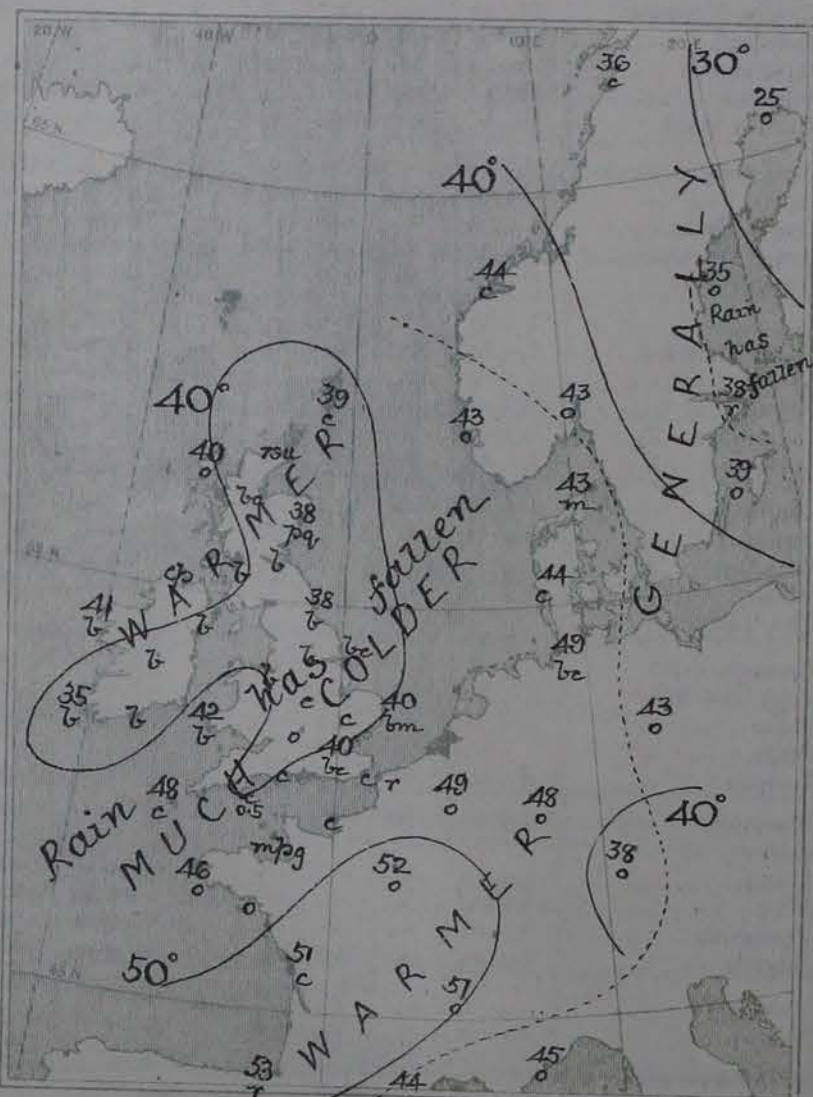
**RAINFALL**—A dotted line separates the districts in which rain has fallen from those where there has been none. Falls of 0.5 in. or more are quoted in figures.

## MEANS OF TEMPERATURE IN SHADE, AND RAINFALL.

(For the month of December.)

STATIONS.	TEMPERATURE				RAINFALL. (Inches.)
	Daily Max.	Daily Min.	at 8 a.m.	at 8 a.m.	
Sumburgh Head	42.6	35.2	39.6	38.1	4.95
Stornoway	43.1	34.2	39.1	38.5	5.63
Wick	42.2	33.7	38.1	36.8	3.10
Nairn	41.9	32.8	37.1	35.0	1.93
Aberdeen	41.9	32.6	36.9	35.2	3.24
Leith	44.0	33.7	38.5	37.0	1.86
Shields	42.9	33.9	38.3	36.9	2.67
Spain Head	42.4	35.3	38.8	37.7	2.14
York	42.3	32.3	36.4	35.4	2.28
Loughborough	42.7	32.2	36.3	35.4	2.24
Ardrossan	44.5	35.0	40.0	38.7	3.73
Mullagmore	40.5	37.8	42.2	39.3	4.51
Donaghadee	45.8	36.2	40.2	39.3	2.84
Holyhead	46.4	39.1	42.8	41.1	3.82
Liverpool	43.6	35.6	38.8	37.1	2.50
Parsonstown	44.7	33.1	37.8	36.6	3.04
Valencia	49.7	40.0	44.6	42.4	5.99
Roche's Point	47.9	38.9	42.9	41.5	4.05
Pembroke	46.8	40.3	43.6	42.2	3.99
Seilly	49.5	43.1	47.0	45.1	4.02
Pravle Point	47.9	38.2	42.5	41.1	3.76
Jersey	47.3	39.3	43.1	41.4	3.82
Hurst Castle	45.6	36.3	40.6	39.8	2.78
Dover	44.3	35.9	39.8	38.6	3.00
LONDON	44.0	33.9	37.8	36.7	2.10
Oxford	42.9	33.5	37.0	35.9	2.10
Cambridge	42.8	31.6	36.2	35.5	1.88
Yarmouth	41.9	33.7	37.9	37.0	2.06

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 (1.) 30.0 ins: and more to 29.7 ins: over the southern half of France; (2.) 29.9 ins: to 29.7 ins: over the western part of our Islands and also over Finland and the Gulf of Bothnia.

Lowest, 29.0 ins: and less, in a depression off the west of Norway, and 29.6 ins: and less, in a V-shaped depression off our southeast coast. Gradients moderate and apparently decreasing. Barometer rising quickly on all our coasts.

## TEMPERATURE

Highest, 55° at Lisbon, 51° to 52° at several of the French stations, 49° at Copenhagen, 43° at the Scaur.

Lowest, (1.) 25° at Haparanda; (2.) 30° at Parosstown, 34° at York, 35° at Loughborough.

It is from 7° to 13° lower over the eastern half of England, and 18° lower over Central Ireland than it was yesterday.

## WIND

Still S<sup>3</sup> to SW<sup>3</sup> at the French and German stations, SE<sup>4</sup> over the greater part of Scandinavia and the Baltic; but has shifted to NW. and N. over the British Islands and is strong in the north of Scotland.

The SW<sup>3</sup> gales recently experienced appear to have subsided completely.

## WEATHER

Fair over the United Kingdom as a whole, but cloudy in some places, and cold showers are falling in the northeast of Scotland. On the Continent it is dull and unsettled.

Rain fell generally during yesterday or last night; in London and at the North Foreland the fall was somewhat heavy (0.4 in.).

## SEA

Though high over the Bay of Biscay, and rather rough in the Channel and off the north of Scotland, is going down as a whole.

## PROBABLE CHANGES IN SYSTEM NOW PREVALENT

The depressions in the north and east appear to be passing off and cold anticyclonic northerly breezes are spreading over our Islands from the westward.

# FORECASTS

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

## DISTRICTS.

## FORECASTS.

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

NW<sup>2</sup> and N<sup>2</sup> winds, strong; squally, cold showers.

NW<sup>2</sup> to N<sup>2</sup> breezes, fresh to light; slight cold showers, frosty tonight.

## 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.

NW<sup>2</sup> and N<sup>2</sup> breezes, falling light; very cold, frost inland at night.

## WARNINGS

NONE ISSUED.

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



# YESTERDAY'S 2 P.M. REPORTS.

	BAR.	THER.		WIND.	F.	WEA.	SEA.		BAR.	THER.		WIND.	F.	WEA.	SEA.
		Dry.	Wet.	Dirac.						Dry.	Wet.	Dirac.			
Skudesnaes ...	29.21	42	40	SE	9	0	4	Valencia ...	29.07	48	46	SW	6	cg	6
Sumburgh Head	28.94	40	37	ESE	1	0	4	Scilly ...	29.13	53	50	SW	6	o	4
Stornoway ...	28.88	37	37	N	2	0	3	Jersey ...	29.35	57	55	SW	6	bc	5
Aberdeen ...	28.73	40	39	NNE	5	0	6	Hurst Castle ...	29.20	52	51	SW	8	opm	7
Shields ...	28.69	50	48	SSE	3	0	3	Dungeness ...	29.22	54	53	SW	7	c	6
Ardrossan ...	28.67	37	37	NE	3	0	2	North Foreland...	29.21	55	53	SW	7	o	5
Malin Head ...	28.81	40	38	N	5	0	3	London ...	29.31	57	54	SSW	8	cyp	*
Mullaghmore ...								Yarmouth ...	29.07	54	52	SSW	5	bc	5
Belmullet ...	28.97	43	41	NW	4	bc	*	Rocheport ...	29.78	53	53	SW	5	o	*
Holyhead ...	28.64	50	49	SW	6	ogm	6								

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

*Continental Information late — will appear in tomorrow'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.

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# DAILY WEATHER REPORT

for 8 a.m. on FRIDAY. 15<sup>TH</sup> DECEMBER. 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 5).	Weather.	SHADE TEMP.		Amount of Rainfall.		
				Reading at 5 <sup>30</sup> P. and Sea Level.	Dry Bulb.		Dirac.	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.			Dirac.	Force (0 to 12).		Max.	Min.
		Inch.	°				Inch.	°	°	°						°	Inch.			
SCANDINAVIA.	Haparanda ...	29.77	21	NW	4	0	29.57	-32	20	19	-5	NE	6	0	0	30	20	0.004		
	Hernösand ...	29.53	34	ENE	6	0	29.29	-36	33	31	-2	N	7	0	0	36	22	0.008		
	Stockholm ...	29.46	40	NW	2	0	29.39	+01	37	35	-1	N	4	bc	0	40	30	0.002		
	Wisby ...	29.63	41	S	4	0	29.79	+17	40	38	+1	N	6	0	0	40	32	0.001		
	Bodö ...	29.37	36	E	0	0	29.41	-03	31	29	-5	E	6	0	0	36	30	—		
	Christiansund...	29.21	43	NW	6	0	29.37	+64	39	37	-5	NW	8	0	0	45	37	0.008		
	Skudesnaes ...	29.61	43	NNW	8	bc	29.80	+69	45	41	+2	NW	8	0	0	45	39	—		
	Christiania Fjord (Færdor)	29.48	40	N	0	0	29.79	+62	42	40	-1	NW	8	0	0	42	39	—		
	Skagen (The Seaw)	29.65	40	NW	3	0	29.93	+72	41	39	-2	NNW	7	0	0	42	37	—		
	Fanö ...	29.89	42	N	4	0	30.13	+79	42	40	-2	N	5	0	0	46	37	—		
BRITISH ISLANDS.	Sumburgh Head	29.49	41	NNW	4	0	29.51	+46	40	40	+6	N	4	0	0	45	39	0.004		
	Stornoway ...	29.68	40	N	4	0	29.67	+29	44	43	+4	N	6	0	0	45	37	0.001		
	Wick ...	29.64	38	N	3	bc	29.69	+44	42	40	+5	NNW	5	0	0	42	35	0.005		
	Nairn ...	29.75	38	NNW	1	0	29.70	+41	40	40	+6	NNW	2	0	0	40	35	0.002		
	Aberdeen ...	29.82	37	NNW	3	bc	29.81	+42	40	40	+6	NW	3	0	0	40	36	0.004		
	Leith ...	29.90	37	NNW	2	0	29.89	+40	47	40	+9	NNW	4	bc	0	47	35	—		
	Shields ...	29.95	38	N	3	bc	30.01	+45	47	40	+9	NW	1	0	0	47	35	—		
	Spurn Head ...	30.02	40	NNW	4	0	30.15	+53	48	40	+5	NW	4	0	0	47	35	—		
	York ...	30.02	39	N	1	0	30.12	+46	42	40	+8	S	1	0	0	40	34	—		
	Loughborough	30.11	35	N	1	0	30.22	+54	40	37	+5	NW	6	0	0	44	31	0.001		
GERMANY & HOLLAND.	Ardrossan ...	29.94	44	NW	4	0	29.93	+37	48	47	+5	NNW	4	0	0	48	39	0.003		
	Malin Head ...	29.84	45	NW	6	bc	29.91	+11	50	49	+9	NW	4	0	0	50	39	0.002		
	Mullaghmore ...	30.01	36	N	3	0	30.22	+38	47	47	+2	NW	4	0	0	47	35	0.004		
	Beinnbullett ...	30.11	38	NNW	2	0	30.13	+41	49	46	+9	NW	6	0	0	49	32	—		
	Holyhead ...	30.06	39	NNW	2	0	30.14	+42	50	49	+9	NNW	5	0	0	50	32	0.004		
	Parsonstown ...	30.06	37	SE	1	0	30.08	+25	52	51	+22	S	1	0	0	52	30	0.008		
	Valencia ...	30.00	47	S	5	bc	30.16	+24	52	50	+19	NNW	6	0	0	52	34	0.000		
	Roche's Point	30.12	45	NW	3	bc	30.21	+32	52	52	+13	NNW	5	0	0	52	35	0.002		
	Pembroke (St. Ann's Hd.)	30.15	43	N	3	0	30.24	+45	51	51	+9	NW	5	0	0	51	41	0.004		
	Scilly ...	30.21	45	NNW	3	0	30.38	+63	52	50	+4	NNW	5	0	0	52	39	—		
FRANCE AND BELGIUM.	Prawle Point ...	30.21	37	NNW	1	0	30.44	+70	49	47	+9	NNW	4	0	0	49	35	—		
	Jersey (St. Aubin's)	30.15	44	NNW	3	bc	30.33	+90	42	40	-4	NNW	2	bc	0	42	32	0.003		
	Hurst Castle ...	30.15	40	NNE	2	0	30.44	+78	46	44	+4	NW	4	bc	0	46	33	—		
	Dungeness ...	30.06	37	NNE	2	bc	30.41	+82	42	37	-2	N	2	bc	0	42	30	—		
	North Foreland	30.07	40	N	3	bc	30.42	+86	38	37	-5	NNW	2	bc	0	40	30	—		
	London ...	30.13	35	NNW	1	bc	30.40	+75	38	36	-2	NW	2	0	0	40	30	—		
	Oxford ...	30.20	36	NW	2	0	30.38	+68	40	37	+1	S	4	0	0	40	30	—		
	Cambridge ...	30.11	36	N	1	0	30.35	+70	38	38	+2	S	4	0	0	40	30	—		
	Yarmouth ...	30.02	39	NW	2	0	30.34	+76	38	36	-2	NW	2	bc	0	40	32	0.001		
	PENINSULA.	Cuxhaven ...	29.70	43	N	2	0	30.22	+79	37	36	-12	NW	2	0	0	47	37	—	
Berlin ...		29.93	46	N	3	0	30.36	+67	38	38	-8	N	3	0	0	48	38	0.004		
Wiesbaden ...		30.10	41	NW	3	0	30.42	+53	37	35	-11	N	2	0	0	48	36	0.006		
Munich ...		30.10	41	NW	3	0	30.42	+53	37	35	-11	NW	2	0	0	48	36	0.006		
The Helder ...		30.11	44	NNW	2	0	30.37	+92	42	40	-2	NW	4	0	0	42	41	0.004		
Brussels (9 a.m.)		30.20	46	NNE	4	0	30.35	+93	40	39	-9	SE	3	0	0	40	39	—		
Cape Gris Nez		30.03	43	NNE	4	0	30.34	+82	45	42	-1	N	4	0	0	45	37	—		
Paris ...		30.01	43	N	3	0	30.32	+85	42	42	-20	2	0	0	42	34	0.012			
Brest ...		30.20	46	NNE	4	0	30.35	+93	40	39	-9	SE	3	0	0	40	39	—		
Lorient ...		30.20	46	NNE	4	0	30.35	+93	40	39	-9	SE	3	0	0	40	39	—		
GERMANY & HOLLAND.	Rochefort ...	30.07	48	NW	4	bc	30.34	+74	38	36	-13	N	2	0	0	48	36	0.008		
	Belfort ...	30.10	48	NW	1	0	30.46	+53	43	41	-8	N	2	0	0	48	36	0.004		
	Lyons ...	30.10	48	NNW	1	0	30.46	+53	43	41	-8	N	2	0	0	48	36	0.004		
	Nice ...	30.12	47	E	1	0	30.10	+01	45	44	0	ENE	2	0	0	45	40	—		
	Perpignan ...	30.11	37	NW	2	0	30.42	+48	50	44	+6	NNW	4	0	0	50	44	—		
	Biarritz ...	30.08	35	N	1	0	30.45	+57	50	46	+3	N	3	0	0	50	43	0.009		
	Corunna ...	30.29	35	NNW	2	0	30.47	+29	48	45	-7	N	4	0	0	48	44	—		
	Lisbon ...	30.29	35	NNW	2	0	30.47	+29	48	45	-7	N	4	0	0	48	44	—		

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, 15<sup>th</sup> December 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

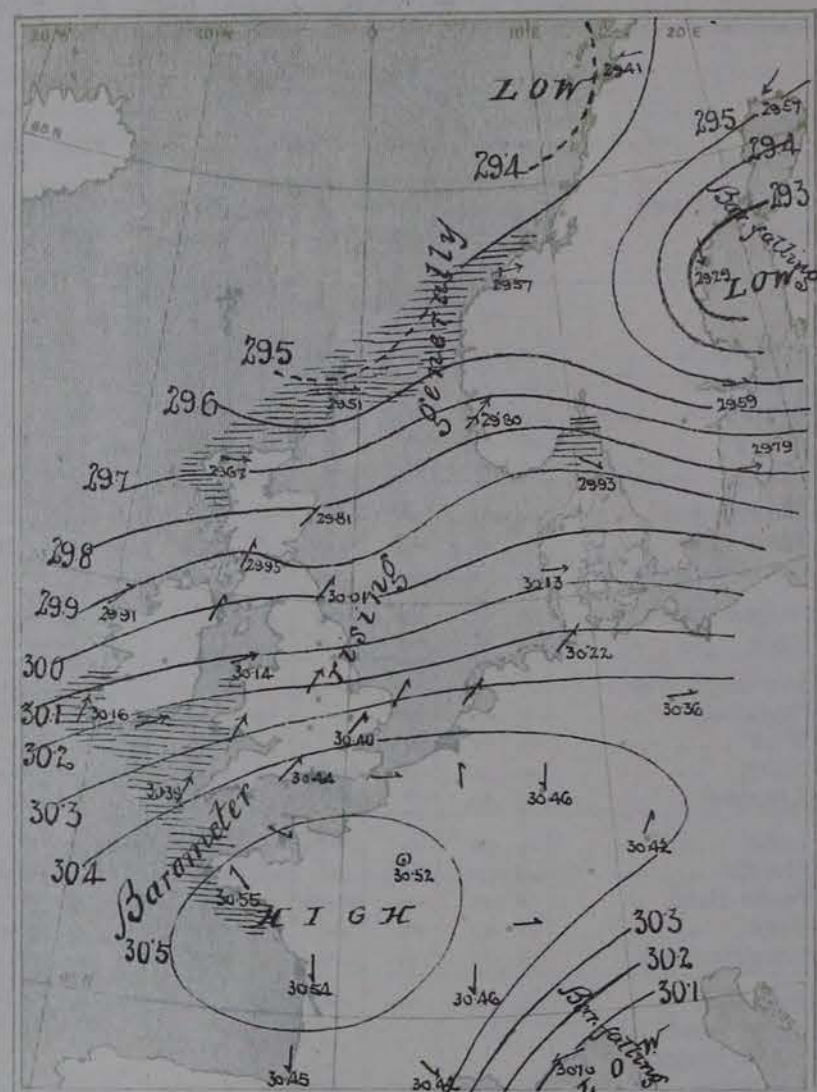
at 8.0 a.m. for the month of December.

During the 20 Years 1871—1890.

### STATIONS.

### MEAN READINGS.

STATIONS.	MEAN READINGS.
Sundburgh Head	29.673
Stornoway	29.705
Wick	29.718
Nairn	29.743
Aberdeen	29.767
Leith	29.807
Shields	29.845
Spurn Head	29.873
York	29.890
Loughborough	29.924
Ardrossan	29.826
Mullaghmore	29.821
Donaghadee	29.848
Holyhead	29.879
Liverpool	29.895
Parsonstown	29.901
Valencia	29.905
Roche's Point	29.912
Pembroke	29.916
Scilly	29.931
Prawle Point	29.970
Jersey	29.983
Hurst Castle	29.978
Dover	29.953
LONDON	29.954
Oxford	29.955
Cambridge	29.941
Yarmouth	29.916



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

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

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

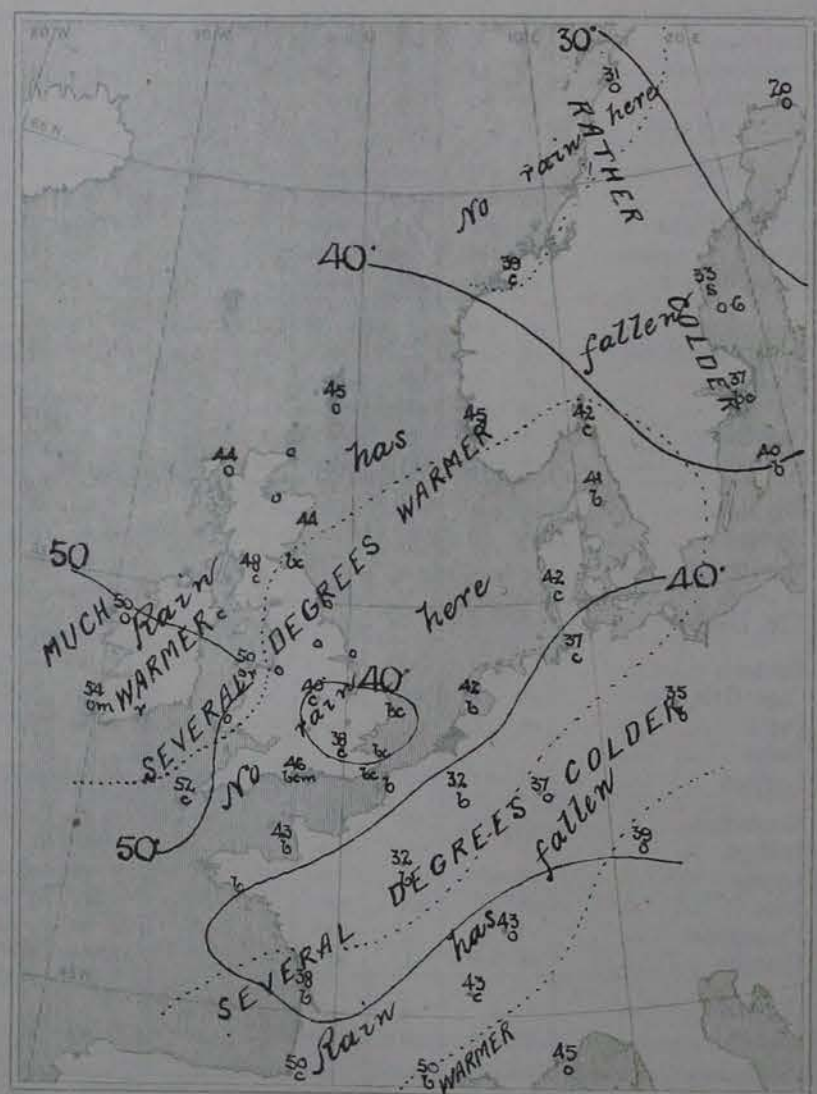
**RAINFALL**—A dotted line separates the districts in which rain has fallen from those where there has been none. Falls of 0.5 in. or more are quoted in figures.

## MEANS OF TEMPERATURE IN SHADE, AND RAINFALL.

(For the month of December.)

STATIONS.	TEMPERATURE				RAINFALL (Inches.)
	Daily Max.	Daily Min.	Day.	Night.	
Sundburgh Head	42.0	35.2	39.0	33.1	4.25
Stornoway	43.1	34.2	39.4	34.5	5.63
Wick	42.2	32.7	38.1	30.8	3.10
Nairn	41.9	32.8	37.1	35.0	1.95
Aberdeen	41.9	32.6	36.0	35.2	3.24
Leith	44.9	33.7	38.5	37.0	1.80
Shields	42.9	33.9	38.3	36.0	2.37
Spurn Head	42.4	35.3	38.8	37.7	2.14
York	42.3	32.3	36.4	35.4	2.28
Loughborough	42.7	32.2	36.3	35.4	2.24
Ardrossan	44.5	35.0	40.0	38.7	3.73
Mullaghmore	40.5	37.8	42.2	39.8	4.51
Donaghadee	45.8	36.2	40.2	39.3	2.84
Holyhead	40.4	39.1	42.8	41.1	3.82
Liverpool	43.5	35.0	38.8	37.1	2.38
Parsonstown	44.7	39.1	37.8	36.0	3.04
Valencia	40.7	40.0	44.0	42.4	5.09
Roche's Point	47.0	38.9	42.0	41.5	4.95
Pembroke	40.8	40.3	43.6	42.2	3.39
Scilly	49.5	43.4	47.9	45.1	1.02
Prawle Point	47.0	38.2	42.5	41.1	3.76
Jersey	47.3	39.3	43.1	41.4	3.82
Hurst Castle	45.0	36.3	40.0	39.8	2.78
Dover	44.3	35.9	39.8	38.0	3.00
LONDON	44.0	33.9	37.8	36.7	2.10
Oxford	42.9	33.5	37.0	35.0	2.10
Cambridge	42.8	31.6	36.2	35.5	1.88
Yarmouth	41.8	33.7	37.0	37.0	2.60

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, 30.5 ins. to 30.3 ins. in an anticyclone covering France, Germany, and the southern counties of England.  
 Lowest, 29.3 ins. and less, in a depression over the Gulf of Bothnia, 29.5 ins. over the Friesland, and lower to the northward of them.  
 Gradients slight over France, moderate over our islands and the North Sea.  
 Barometer apparently rising except over the Gulf of Bothnia, the change since yesterday being 0.7 in. over our southern counties and 0.9 in. at Brussels.

## TEMPERATURE

Highest, 50° to 54° in the west and south of Ireland, 52° at Lillie, 50° at Biarritz and Perpignan.  
 Lowest, (1) 20° at Haparanda, 31° at Bodø, 33° at Helsingfors; (2) 38° over our southern counties.  
 A sharp frost was experienced over our midland and southern counties during the night.

## WIND

W<sup>1</sup> & SW<sup>2</sup> strong to a gale in Norway; SW<sup>2</sup> strong to moderate over the United Kingdom; N<sup>1</sup> over the southern half of France, SE<sup>1</sup> at Lorient, W<sup>1</sup> and SW<sup>1</sup> moderate, over the English Channel.  
 A brief but shill gale from SW. appears to have been felt on some parts of our western coasts last night.

## WEATHER

Fine over the greater part of France, changeable over the United Kingdom, with rain at several of our western stations, unsettled generally. Snow is falling at Helsingfors.  
 Rainfall during the past twenty-four hours has been slight except at some Irish and Swedish stations.

## SEA

Rough on our western coasts as a whole, rather so at most northern stations, slight in the English Channel.

## PROBABLE CHANGES IN SYSTEM NOW PREVALENT

At present the barometer is rising even on our western coasts— but the distribution of pressure is of a very unstable type; rough weather, and SW<sup>2</sup> gales are not at all improbable before long. Our western and northwestern coasts are warned.

# FORECASTS

For the 24 hours ending at NOON on, 16<sup>TH</sup> DEC<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

W<sup>2</sup> and SW<sup>2</sup> winds, increasing;  
 some rain at times.  
 SW<sup>2</sup> breezes, freshening; changeable,  
 mild, some rain occasionally.

## DISTRICTS.

## FORECASTS.

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

SW<sup>2</sup> and S<sup>2</sup> winds, force uncertain  
 at present; unsettled, some rain.

## WARNINGS

At 7.35 pm yesterday to districts 6, 9 & 10  
 "Horst 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.	P.	WEA.	SEA.		BAR.	THER.		WIND.	F.	WEA.	SEA.
		Dry.	Wet.	Dir.						Dry.	Wet.	Dir.			
Skudesnaes ...	29.37	41	37	WNW	5	0	5	Valencia ...	30.07	45	43	SSE	1	bcn	3
Sumburgh Head ...	29.32	43	41	WNW	5	c	5	Scilly ...	30.08	48	42	NNE	5	c	6
Stornoway ...	29.60	42	42	W	5	c	3	Jersey ...	29.55	47	42	N	5	bcn	5
Aberdeen ...	29.66	40	36	W	5	bc	3	Hurst Castle ...	29.58	44	40	NNE	2	b	3
Shields ...	29.80	42	39	W	4	b	2	Dungeness ...	29.81	45	41	NNW	2	bc	2
Ardrossan ...	29.81	42	43	W	4	bc	3	North Foreland ...	29.90	42	40	N	4	cm	5
Malin Head ...	29.84	44	39	W	5	b	3	London ...	29.95	44	39	WNW	2	bm	3
Mullaghmore ...								Yarmouth ...	29.84	42	39	NNW	3	b	3
Belmullet ...	29.92	42	39	SW	2	bc	*	Rochefort ...	29.81	32	30	W	4	c	*
Holyhead ...	29.96	42	40	NNW	3	b	3								

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

Weather in morning fine over the western and most of the northern parts of the United Kingdom and the south of Russia, fair as a whole over southern Europe generally, foggy over Austria, dull over Germany; rain falling at Breslau and Helsingfors, snow at Petersburg and also at Wiek. Rain general at the Irish, Scotch, and Scandinavian stations later - fall considerable in several places; local showers over France and Germany.

Temperature fallen fast over England, Ireland, and the north of France, risen fast over Central Europe. Morning readings highest 60° at Malta and exceeding 50° at most Mediterranean stations, as well as on the coasts of Portugal and the north of Spain, 52° at Paris, 48° at Scilly. Lowest (1) 5° at Kharkov, 15° at Kiev, 20° at Odessa, 23° at Moscow and Kuopio, 25° at Haparanda, 33° at Warsaw and Ruda Berth; (2) 30° at Parnoutown, 34° at York, and 39° at Oxford. Rising to 50° and more on our southwest coasts during the following night, but sharp frost prevailing over the midland and southern counties of England.

Wind (1) W<sup>3</sup> to S<sup>3</sup> over France, S<sup>3</sup> over Germany, (a gale at Neufahrwasser), SE<sup>3</sup> to E<sup>3</sup> over Sweden and the greater part of Norway; (2) NW<sup>1</sup> over Ireland, Scotland, the Shetlands, and southwest of Norway, N<sup>1</sup> over England and the greater part of the Channel, as well as at Brest and Jersey. The N<sup>1</sup> breeze dying out later, and freshening SW<sup>1</sup> breezes again setting in at the Irish stations.

Barometer highest (1) 30.5 ins. and more to 30.0 ins. over Russia and southeastern Europe, and exceeding 30.0 ins. over the whole of the Adriatic, the Mediterranean, and the greater part of the Spanish Peninsula; (2) 29.9 ins. and more over the southwest of Ireland. Lowest 28.9 ins. and less, in a depression lying off the west of Norway, 29.3 ins. and less, over Denmark, 29.6 ins. and less, over the Straits of Dover, and below 29.7 ins. over Brittany. Rising rapidly over Great Britain, France, and the North Sea later, but falling fitfully over Ireland and Scotland towards 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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# DAILY WEATHER REPORT

for 8 a.m. on

Saturday, 16<sup>th</sup> December,

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 3).	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.	Dirac.	Force (0 to 12).		Weather.	Max.		Min.			
		Inch.	°				Inch.	°	°	°					°	Inch.					
SCANDINAVIA.	Haparanda ...	29.57	22	Z	0	0	29.77	+ 20	20	20	0	Z	0	0	0	25	19	0.08			
	Hernösand ...	29.66	25	Z	0	0	29.84	+ 35	26	25	- 7	Z	0	0	0	36	23	-			
	Stockholm ...	29.81	36	W	2	0	29.97	+ 38	33	31	- 4	W	2	0	0	43	33	-			
	Wisby ...	29.91	39	W	5	0	30.04	+ 25	39	37	- 1	W	4	0	0	41	36	-			
	Bodo ...	29.47	30	E	5	S	29.58	+ 17	35	33	+ 4	E	4	0	0	41	28	-			
	Christiansund...	29.70	42	SW	6	0	29.60	+ 03	45	42	+ 6	SW	4	1	0	45	39	0.20			
	Skudesnaes ...	29.99	46	W	4	0	29.99	+ 19	48	47	+ 3	W	2	0	0	41	41	-			
	Christiania Fjord (Fjord)	29.89	41	W	2	0	29.95	+ 16	42	40	0	W	4	0	0	42	41	-			
	Skagen (The Seaw)	30.02	43	W	3	0	30.04	+ 11	44	44	+ 3	W	3	0	0	45	39	0.16			
	Fanø ...	30.18	44	W	4	0	30.23	+ 10	45	44	+ 3	W	5	0	0	46	41	0.04			
BRITISH ISLANDS.	Sumburgh Head	29.73	44	SW	3	0	29.75	+ 24	49	47	+ 4	SW	7	0	0	49	44	0.32			
	Stornoway ...	29.57	49	SW	7	0	29.82	+ 15	49	47	+ 5	SW	6	0	0	53	43	0.80			
	Wick ...	29.68	46	S	5	0	29.86	+ 17	46	45	+ 4	SW	3	0	0	51	40	0.08			
	Nairn ...	29.71	52	W	3	0	29.93	+ 18	50	45	+ 5	W	1	0	0	51	42	0.02			
	Aberdeen ...	29.85	46	SSE	3	0	30.03	+ 22	50	49	+ 6	SSW	4	0	0	52	44	0.02			
	Leith ...	29.96	51	W	3	0	30.08	+ 19	54	51	+ 7	SW	4	0	0	55	45	-			
	Shields ...	30.10	52	SW	3	0	30.23	+ 22	52	50	+ 5	SW	4	0	0	55	43	-			
	Spurn Head ...	30.25	49	SW	5	0	30.33	+ 18	47	45	+ 4	SW	4	0	0	49	42	-			
	York ...	30.22	50	SW	3	0	30.33	+ 21	47	46	+ 5	SSW	1	0	0	52	41	-			
	Loughborough	30.36	50	SW	3	0	30.41	+ 19	47	45	+ 7	SSW	1	0	0	51	40	-			
GERMANY & HOLLAND.	Ardrossan ...	30.00	51	SSW	4	0	30.08	+ 13	50	49	+ 2	S	5	0	0	51	47	0.07			
	Malin Head ...																				
	Mullaghmore ...																				
	Belmullet ...	29.93	53	SSW	7	0	29.92	+ 01	51	50	+ 1	SW	9	0	0	53	46	0.22			
	Donaghadee ...	30.08	53	SW	5	0	30.12	+ 10	50	49	+ 3	SW	5	0	0	54	45	0.03			
	Liverpool (Bldston)	30.27	52	SW	4	0	30.32	+ 19	53	47	+ 4	SW	4	0	0	54	49	-			
	Holyhead ...						30.25	+ 14	51	49	+ 1	S	4	0	0	54	47	-			
	Parsonstown ...	30.16	51	SE	1	0	30.15	+ 07	52	49	0	SE	2	0	0	55	49	-			
	Valencia ...	30.21	54	SSE	5	0	30.15	+ 01	53	52	- 1	SSE	6	0	0	56	49	-			
	Roche's Point	30.27	53	W	5	0	30.27	+ 06	52	50	0	SW	6	0	0	54	50	0.01			
FRANCE AND BELGIUM.	Pembroke (St. Ann's Hd.)	30.35	50	SW	5	0	30.39	+ 15	51	50	0	SSW	5	0	0	51	50	0.01			
	Scilly ...	30.44	53	SSW	5	0	30.47	+ 09	50	48	- 2	S	5	0	0	55	48	-			
	Prawle Point ...	30.52	50	SW	4	0	30.54	+ 10	49	48	0	W	4	0	0	53	47	-			
	Jersey (St. Aubin's)	30.61	47	SSW	3	0	30.63	+ 10	45	44	+ 2	SSW	3	0	0	52	42	0.01			
	Hurst Castle ...	30.53	48	SW	3	0	30.56	+ 12	48	47	+ 2	SW	4	0	0	51	47	-			
	Dungeness ...	30.50	49	W	5	0	30.55	+ 14	48	47	+ 6	W	5	0	0	49	40	-			
	North Foreland	30.50	49	SW	4	0	30.56	+ 14	47	46	+ 9	SW	3	0	0	49	36	-			
	London ...	30.50	49	W	3	0	30.52	+ 12	48	46	+ 10	SW	3	0	0	51	38	-			
	Oxford ...	30.47	50	SW	3	0	30.48	+ 10	49	47	+ 9	S	3	0	0	51	40	-			
	Cambridge ...	30.43	50	SSW	5	0	30.47	+ 12	47	46	+ 9	S	5	0	0	51	36	-			
PENINSULA.	Yarmouth ...	30.36	48	W	4	0	30.44	+ 10	45	44	+ 7	SW	3	0	0	48	35	-			
	Cuxhaven ...	?	42	W	6	0	30.41	+ 19	42	42	+ 5	W	5	0	0	45	37	0.04			
	Berlin ...	30.43	38	W	3	0	30.42	+ 06	44	43	+ 9	W	4	0	0	45	35	0.04			
	Wiesbaden ...	?	?	?	?	?	30.75	+ 29	31	30	- 6	SW	1	0	0	45	30	-			
	Munich ...	30.66	39	Z	0	0	30.71	+ 29	31	31	- 8	SW	4	0	0	45	30	-			
	The Helder ...	30.44	46	SW	5	0	30.49	+ 11	46	45	+ 4	SW	5	0	0	46	41	-			
	Brussels (8 a.m.)	?	?	?	?	?	30.65	+ 15	37	36	+ 5	SSW	2	0	0	42	31	-			
	Cape Gris Nez	30.44	46	W	5	0	30.51	+ 13	46	46	+ 1	W	4	0	0	48	39	-			
	Paris ...	30.65	35	SW	3	0	30.71	+ 19	29	29	- 3	SSE	2	0	0	44	27	-			
	Brest ...	?	51	SW	3	0	?	?	51	50	0	SSW	4	0	0	54	46	-			
PENINSULA.	Lorient ...	30.63	48	SSW	4	0	30.62	+ 07	43	41	+ 3	SSE	4	0	0	52	37	-			
	Rocheport ...	30.63	41	W	3	0	?	?	36	36	- 2	W	3	0	0	48	38	-			
	Belfort ...	?	44	W	2	0	?	?	45	43	+ 2	W	2	0	0	51	42	-			
	Lyons ...	30.64	44	W	1	0	30.74	+ 28	39	38	- 4	W	1	0	0	50	39	-			
	Nice ...	30.38	51	Z	0	0	30.56	+ 46	48	47	+ 3	E	1	0	0	55	45	-			
	Perpignan ...	30.56	49	W	4	0	30.62	+ 26	43	42	- 7	SW	2	0	0	53	41	-			
	Biarritz ...	30.64	48	W	3	0	30.60	+ 15	41	40	- 9	E	3	0	0	52	39	-			
	Corunna ...	?	?	?	?	?	?	?	?	?	?	?	?	?	?	?	?	?			
	Lisbon ...	30.45	50	W	5	0	30.45	+ 02	47	42	- 1	W	5	0	0	55	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 Saturday, 16<sup>th</sup> Dec 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:

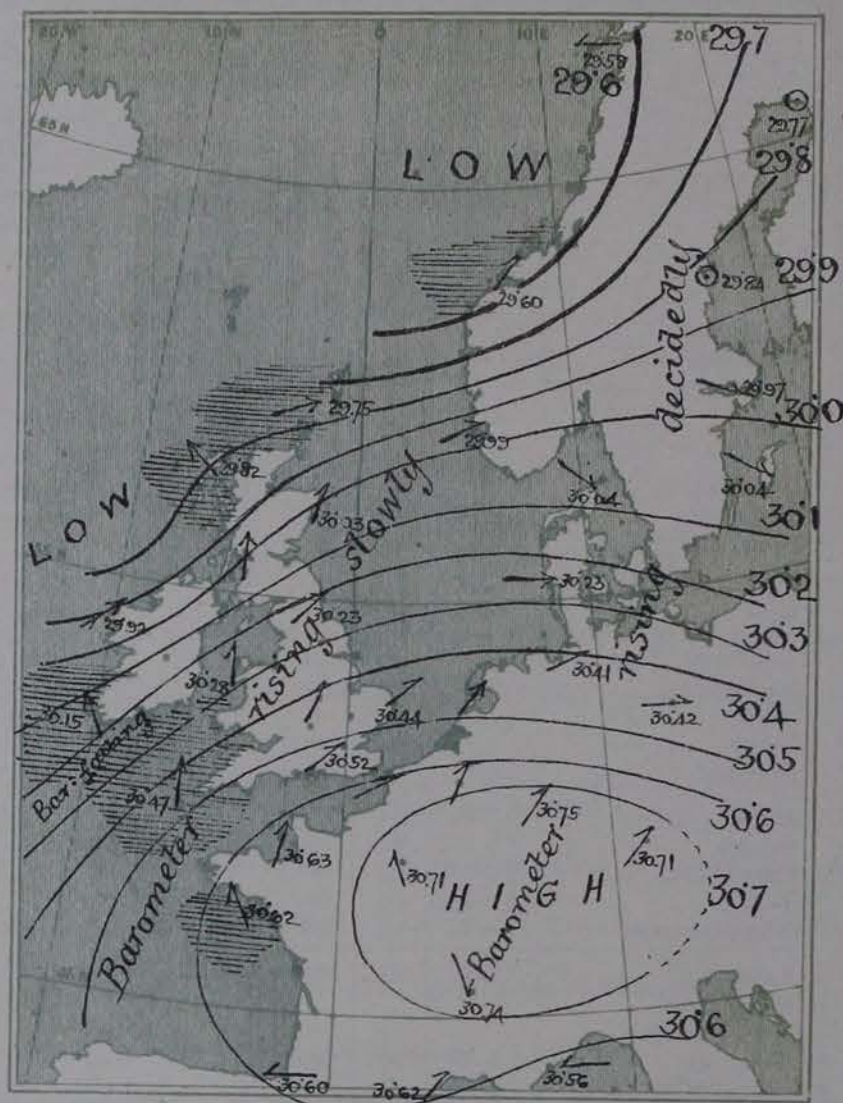
— = Rough. — = High.

### MEAN HEIGHT OF THE BAROMETER

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

During the 20 Years 1871–1890.

STATIONS.	MEAN READINGS.
Sumburgh Head	29.673
Stornoway	29.705
Wick	29.718
Nairn	29.743
Aberdeen	29.767
Leith	29.807
Shields	29.845
Spurn Head	29.873
York	29.890
Loughborough	29.924
Ardrossan	29.920
Mullaghmore	29.921
Donaghadee	29.848
Holyhead	29.879
Liverpool	29.895
Parsonstown	29.901
Valencia	29.905
Roche's Point	29.912
Pembroke	29.916
Scilly	29.951
Prawle Point	29.970
Jersey	29.985
Hurst Castle	29.958
Dover	29.953
LONDON	29.954
Oxford	29.955
Cambridge	29.941
Yarmouth	29.916



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

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

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

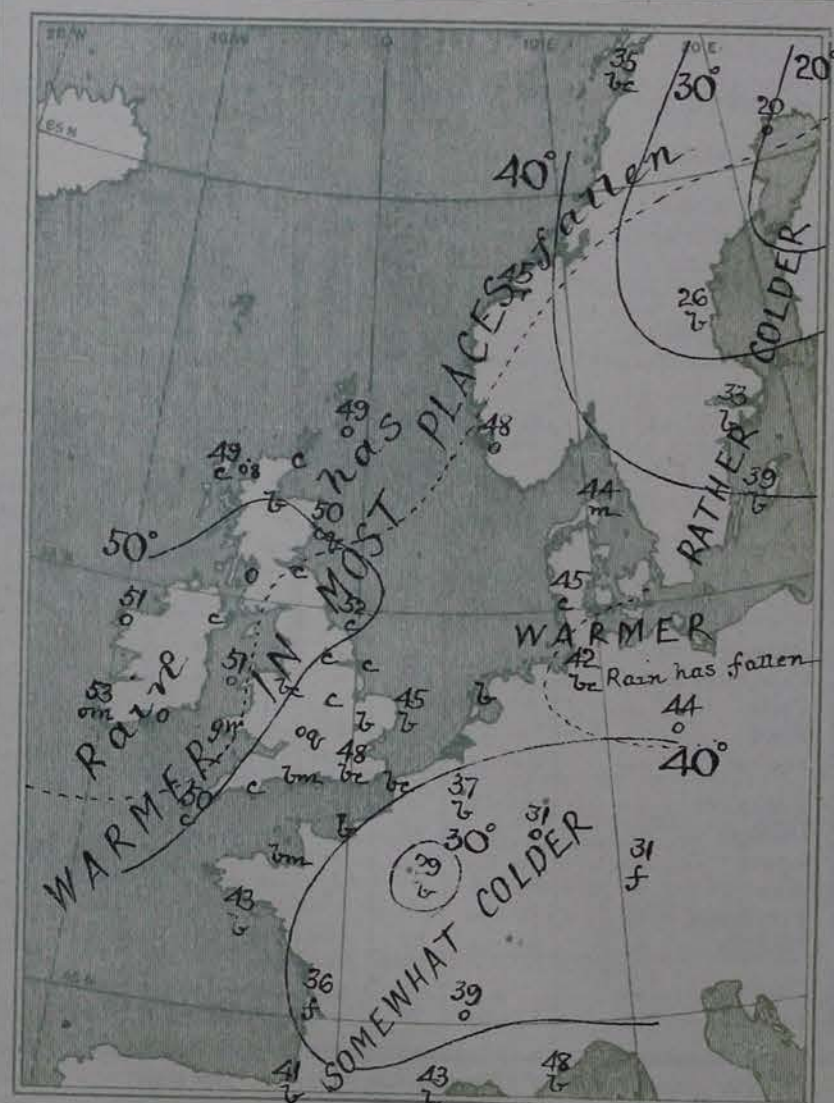
**RAINFALL**—A dotted line separates the districts in which rain has fallen from those where there has been none. Falls of 0.5 in. or more are quoted in figures.

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

(For the month of December.)

STATIONS.	TEMPERATURE.				RAINFALL. (Inches.)
	Daily Max.	Daily Min.	Dry.	Wet.	
Sumburgh Head	42.6	35.2	39.6	38.1	4.25
Stornoway	43.1	34.2	39.1	38.5	5.63
Wick	42.2	32.7	38.1	36.8	3.10
Nairn	41.0	32.8	37.1	35.6	1.95
Aberdeen	41.9	32.6	36.9	35.2	3.24
Leith	44.0	33.7	38.5	37.0	1.86
Shields	42.9	33.9	38.3	36.9	2.57
Spurn Head	42.4	35.3	38.8	37.7	2.14
York	42.3	32.3	36.4	35.4	2.28
Loughborough	42.7	32.2	36.3	35.4	2.24
Ardrossan	44.5	35.9	40.0	38.7	3.73
Mullaghmore	46.5	37.8	42.2	39.8	4.51
Donaghadee	45.8	36.2	40.2	39.3	2.84
Holyhead	46.4	39.1	42.8	41.1	3.82
Liverpool	43.5	35.6	38.8	37.1	2.59
Parsonstown	44.7	33.1	37.8	36.6	3.04
Valencia	49.7	40.0	44.6	42.4	5.99
Roche's Point	47.9	38.9	42.9	41.5	4.05
Pembroke	46.8	40.3	43.6	42.2	3.99
Scilly	49.5	43.4	47.0	45.1	4.02
Prawle Point	47.0	38.2	42.5	41.1	3.76
Jersey	47.3	39.3	43.1	41.4	3.82
Hurst Castle	45.6	36.3	40.6	39.8	2.78
Dover	44.3	35.9	39.8	38.6	3.00
LONDON	44.0	33.9	37.8	36.7	2.10
Oxford	42.9	33.5	37.0	35.9	2.10
Cambridge	42.8	31.6	36.2	35.5	1.88
Yarmouth	41.9	33.7	37.9	37.0	2.66

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, 30.7 in: and more to 30.4 in: over France, Spain, the Bay of Biscay, and the south of our Islands.  
 Lowest, 29.9 in: and less, off our extreme northwest coasts, 29.6 in: and less, over the northwest of Norway.  
 Gradients for S<sup>2</sup> and SW<sup>2</sup> winds becoming steep over the United Kingdom, especially in the west.  
 Barometer again falling at Valencia (Ireland) but still rising a little over France and the east of England.

## TEMPERATURE

Highest, 50° to 54° in Scotland, 50° to 53° on the eastern and south-western coasts of our Islands, 48° in London and at Middlesbrough.  
 Lowest, (1) 20° at Hafnarfjörður, 26° at Helsingfors; (2) 29° at Paris, 31° at Wiesbaden and Munich.  
 The maxima recorded yesterday exceeded 50° at almost all our stations; that at Valencia was 56°.

## WIND

S<sup>2</sup> and SW<sup>2</sup> on our coasts generally — and blowing very strongly at the Irish stations.  
 W<sup>2</sup>, moderate, on the eastern shores of the North Sea; variable over France, E<sup>2</sup> at Lyons, NE<sup>2</sup> at Lisbon.  
 It blew a whole gale in the northwest of Ireland, and a fresh gale at Aberdeen during the night.

## WEATHER

Fair generally over France and England, dull and unsettled at our western stations.  
 Rain has fallen in the extreme north and west — heavily at Lomax.  
 Lunar halos were seen in the south of England last night.

## SEA

Rough and increasing in the west and northwest

## PROBABLE CHANGES IN SYSTEM NOW PREVALENT

A new depression is advancing towards our western coasts from the south-westward, and threatens to produce S<sup>2</sup> to SW<sup>2</sup> gales over all our western and northern districts, and a considerable increase of wind elsewhere.

# FORECASTS

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

## DISTRICTS.

## FORECASTS.

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

S<sup>2</sup> and SW<sup>2</sup> winds, strong to a gale;  
 squally, showery

SW<sup>2</sup> and S<sup>2</sup> winds, increasing in  
 force; fair to rainy and squally, mild.

## DISTRICTS.

## FORECASTS.

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

## WARNINGS

Same as Nos 0 and 1.

S<sup>2</sup> winds, strong; squally, showery.

Same as No 0 and 1.

The South Cone is flying in districts 0, 1, 6, 7, 9, and 10.

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



# YESTERDAY'S 2 P.M. REPORTS.

	BAR.	THER.		WIND. Direc.	F.	WEA.	SEA.		BAR.	THER.		WIND. Direc.	F.	WEA.	SEA.
		Dry.	Wet.							Dry.	Wet.				
Skudesnaes ...															
Sumburgh Head ...	29.71	45	44	W	3	c	5		30.19	55	53	S	6	c g m	6
Stornoway ...	29.70	46	46	SW	6	r	5		30.13	54	52	S S W	5	c	5
Aberdeen ...	29.90	45	43	SSE	2	om	3		30.67	51	48	SW	3	b m	3
Shields ...	30.06	52	49	WSW	3	b	2		30.48	50	48	SW	3	cm	4
Ardrossan ...	29.94	50	50	S	2	r	3		30.45	49	46	WSW	5	bc	5
Malin Head ...									30.43	48	46	SW	4	b	4
Mullaghmore ...									30.42	52	48	SW	4	c g	4
Belmullet ...	29.93	53	50	SW	7	o	*		30.31	46	43	SW	3	bc	3
Holyhead ...	30.15	51	50	WSW	4	om	4		30.60	46	44	NE	3	b	*
Valencia ...															
Seilly ...															
Jersey ...															
Hurst Castle ...															
Dungeness ...															
North Foreland ...															
London (Westminster)															
Yarmouth ...															
Rochefort ...															

## 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 Sunday 17<sup>th</sup> December,

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 Yester- day Morn.	Dry Bulb.	Wet Bulb.	Change in dry since Yesterday.			Dir.	Force (0 to 12).		Max.	Min.
Ins.		°				Ins.	°	°	°							°	ins.			
SCANDINAVIA.	Haparanda ...	29.64	16	S	4	0	29.33	- .44	33	33	+ 13	SW	6	0	0	?	19	0.08		
	Hernösand ...	29.76	31	S	4	6	29.62	- .22	33	32	+ 7	Z	0	bc	6	34	19	-		
	Stockholm ...	30.00	39	W	2	0	29.89	- .08	44	42	+ 11	W	4	0	0	?	30	-		
	Wisby ...	30.08	?	WSW	4	r	30.07	+ .03	41	41	+ 2	WSW	4	0	r	41	37	-		
	Bodö ...	29.16	42	SW	8	r	29.17	- .41	41	39	+ 6	SW	7	r	r	42	34	0.75		
	Christiansund...	29.71	47	SW	8	bc	29.71	+ .11	44	42	- 1	SW	5	r	7	bc	48	43	0.20	
	Skudesnaes ...	30.04	47	S	4	r	30.10	+ .11	45	44	- 3	Z	0	f	3	48	45	-		
	Christiania Fjord (Færdar)	30.03	43	WSW	4	6	29.99	+ .04	43	42	+ 1	WSW	4	f	4	43	41	-		
	Skagen (The Scaw)	30.17	43	W	3	f	30.11	+ .07	44	44	0	W	3	m	0	45	41	-		
	Fanö ...	30.30	44	W	4	c	30.29	+ .06	44	43	- 1	W	4	c	c	46	43	-		
BRITISH ISLANDS.	Sumburgh Head	29.68	46	WSW	4	0	29.91	+ .16	45	45	- 4	Z	0	0	4	49	43	0.04		
	Stornoway ...	29.66	50	SW	8	r	29.74	- .08	45	45	- 4	WSW	9	r	6	51	41	0.90		
	Wick ...	29.76	48	NW	3	bc	29.89	+ .03	45	44	- 1	S	1	0	2	50	38	-		
	Nairn ...	29.79	53	SW	4	bc	29.88	- .05	45	42	- 5	WSW	2	c	1	53	40	0.02		
	Aberdeen ...	29.96	50	SSW	4	0	30.01	- .02	44	42	- 6	SW	2	ap	3	52	43	0.01		
	Leith ...	30.01	51	SW	4	0	30.04	- .04	49	46	- 5	SW	3	bc	2	54	44	-		
	Shields ...	30.18	51	SW	3	c	30.12	- .11	48	46	- 4	SW	4	c	2	54	44	-		
	Spurn Head ...	30.33	46	SSW	4	bc	30.27	- .06	38	37	- 9	SSW	3	bc	3	51	37	-		
	York ...	30.30	49	WSW	1	bc	30.24	- .09	41	40	- 6	S	1	c	3	53	40	-		
	Loughborough	30.38	46	SSW	2	bc	30.31	- .10	38	37	- 9	WSW	2	c	3	54	36	-		
GERMANY & HOLLAND.	Ardrossan ...	30.02	50	S	5	0	30.10	+ .02	49	46	- 3	SSW	4	c	3	50	47	0.01		
	Malin Head ...	29.93	49	SW	6	0	29.97		44	42		SW	5	bc	3	53	37	0.27		
	Mullaghmore ...																			
	Belmullet ...	30.01	49	SW	5	0	29.99	+ .07	47	45	- 4	S	4	bc	2	52	45	0.08		
	Donaghadee ...	30.08	50	SSW	7	bc	30.09	- .03	45	43	- 5	SW	4	bc	2	52	42	0.01		
	Liverpool (Bldston)	30.28	49	SSW	3	bc	30.21	- .11	47	45	- 6	S	1	bc	2	53	46	-		
	Holyhead ...	30.20	52	SSW	5	0	30.18	- .10	49	48	- 2	SSW	3	c	3	?	?	0.28		
	Parsonstown ...	30.12	51	SE	3	r	30.12	- .03	41	40	- 11	S	1	0	4	53	40	0.06		
	Valencia ...	30.16	50	SSW	2	0	30.09	- .06	48	46	- 5	SSE	3	bc	4	53	41	0.23		
	Roche's Point	30.20	50	SW	7	r	30.17	- .10	49	48	- 3	SW	1	bc	4	52	48	0.25		
FRANCE AND BELGIUM.	Pembroke (St. Ann's Hd.)	30.30	51	SSW	5	bc	30.23	- .16	49	48	- 2	SSW	4	cg	5	51	48	0.07		
	Scilly ...	30.36	50	SSW	4	c	30.26	- .21	50	49	- 0	S	4	c	5	52	48	-		
	Prawle Point ...	30.46	47	SSW	4	c	30.33	- .21	46	44	- 3	S	2	0	1	50	44	-		
	Jersey (St. Aubin's)	30.53	43	SSE	3	bc	30.38	- .25	42	41	- 3	SE	4	cg	3	49	40	-		
	Hurst Castle ...	30.50	48	SW	4	bc	30.34	- .22	44	42	- 4	SW	2	bc	2	49	42	-		
	Dungeness ...	30.50	47	WSW	4	bc	30.38	- .17	41	39	- 7	SW	4	0	2	49	38	-		
	North Foreland	30.52	45	SW	2	bc	30.39	- .17	38	37	- 9	SW	2	c	3	50	35	-		
	London ...	30.49	47	SW	3	c	30.38	- .14	35	34	- 13	S	1	bc	4	52	33	-		
	Oxford ...	30.44	47	SW	2	0	30.35	- .13	36	35	- 13	S	2	bc	3	52	36	-		
	Cambridge ...	30.45	46	SSW	3	c	30.36	- .11	35	34	- 12	SSE	1	bc	3	53	33	-		
PENINSULA.	Yarmouth ...	30.44	46	SSW	3	bc	30.38	- .06	38	37	- 7	SW	2	bc	3	50	35	-		
	Cuxhaven ...	30.44	40	W	4	0	30.43	+ .02	40	39	- 2	SW	2	c	3	45	40	-		
	Berlin ...	30.46	44	W	2	r	30.47	+ .05	43	42	- 1	W	3	0	3	46	43	-		
	Wiesbaden ...	*	*	*	*	*	30.50	- .19	32	31	+ 1	SW	1	f	3	39	30	-		
	Munich ...	30.65	31	SW	2	6	30.54	- .17	25	25	- 6	E	1	f	3	39	23	-		
	The Helder ...	30.51	45	SW	3	bc	30.45	- .04	41	40	- 5	S	2	f	2	48	41	-		
	Brussels (9 a.m.)	*	*	*	*	*	30.49	- .16	30	29	- 7	SSE	1	bc	3	45	29	-		
	Cape Gris Nez	30.46	46	SW	4	c	30.36	- .15	31	31	- 15	SSE	2	m	2	48	28	-		
	Paris ...	30.61	31	ESE	1	6	30.49	- .22	31	31	+ 2	ESE	1	f	3	33	29	-		
	Brest ...	?	48	S	3	0	?	?	47	?	- 4	S	2	c	5	54	43	-		
FRANCE AND BELGIUM.	Lorient ...	30.51	41	SE	3	0	30.36	- .26	41	40	- 2	ESE	4	0	5	50	39	-		
	Rochefort ...	30.48	41	NE	2	bc	30.37	?	34	33	- 2	E	3	m	3	46	32	-		
	Belfort ...																			
	Lyons ...	30.63	40	E	1	bc	30.54	- .20	35	34	- 4	SSE	1	0	3	46	35	-		
	Nice ...	30.52	48	Z	0	bc	30.41	- .15	50	?	+ 2	E	1	bc	3	57	43	-		
	Perpignan ...	30.62	42	NE	1	bc	30.47	- .15	38	38	- 5	SW	2	0	3	54	42	-		
	Biarritz ...	30.46	45	E	5	bc	30.36	- .24	46	43	+ 5	SE	2	m	5	50	41	-		
	Corunna ...	*	*	*	*	*														
	Lisbon ...	30.37	53	NNE	5	bc	30.30	- .15	47	44	0	NNE	5	bc	3	57	46	-		

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, 17<sup>th</sup> Dec. 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:

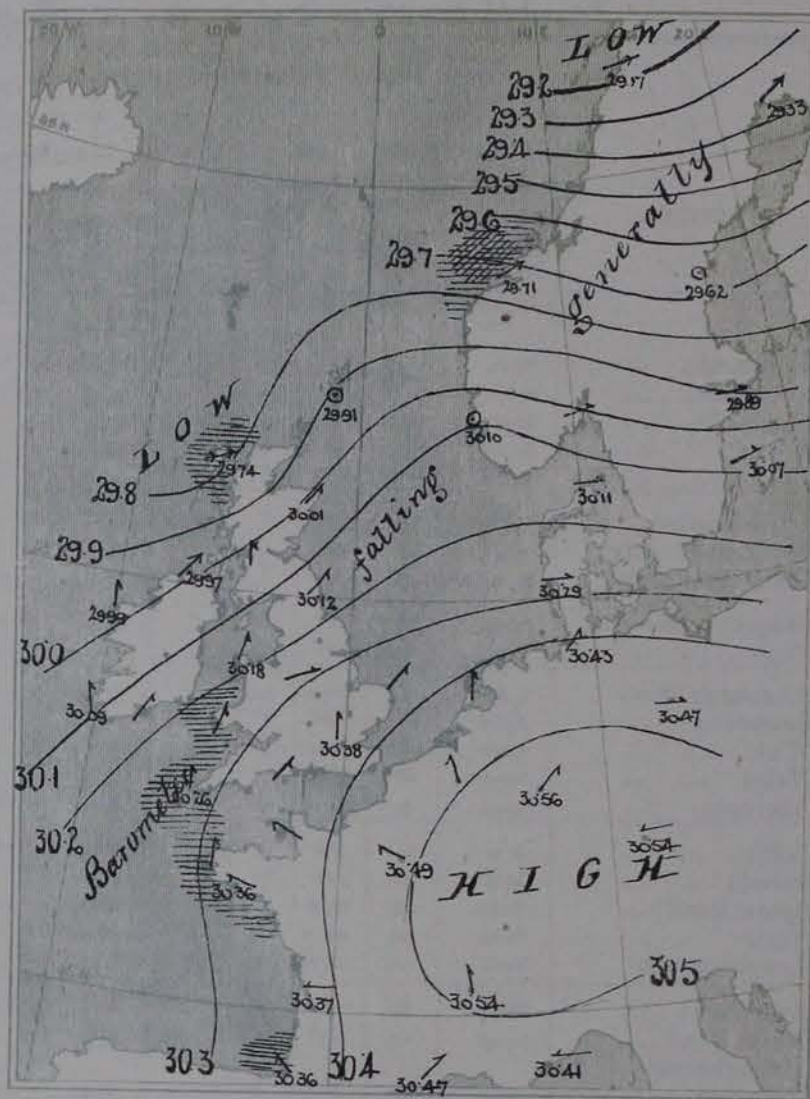
☼ = Rough. ☼ = High.

## MEAN HEIGHT OF THE BAROMETER

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

During the 20 Years 1871—1890.

STATIONS.	MEAN READINGS.
	<i>in.</i>
Sumburgh Head	29.673
Stornoway	29.705
Wick	29.718
Nairn	29.743
Aberdeen	29.767
Leith	29.807
Shields	29.845
Spurn Head	29.873
York	29.890
Loughborough	29.924
Ardrossan	29.929
Mullaghmore	29.921
Donaghadee	29.848
Holyhead	29.879
Liverpool	29.805
Parsonstown	29.901
Valencia	29.905
Roche's Point	29.912
Pembroke	29.916
Scilly	29.951
Prawle Point	29.970
Jersey	29.983
Hurst Castle	29.958
Dover	29.953
LONDON	29.954
Oxford	29.955
Cambridge	29.941
Yarmouth	29.916



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

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

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

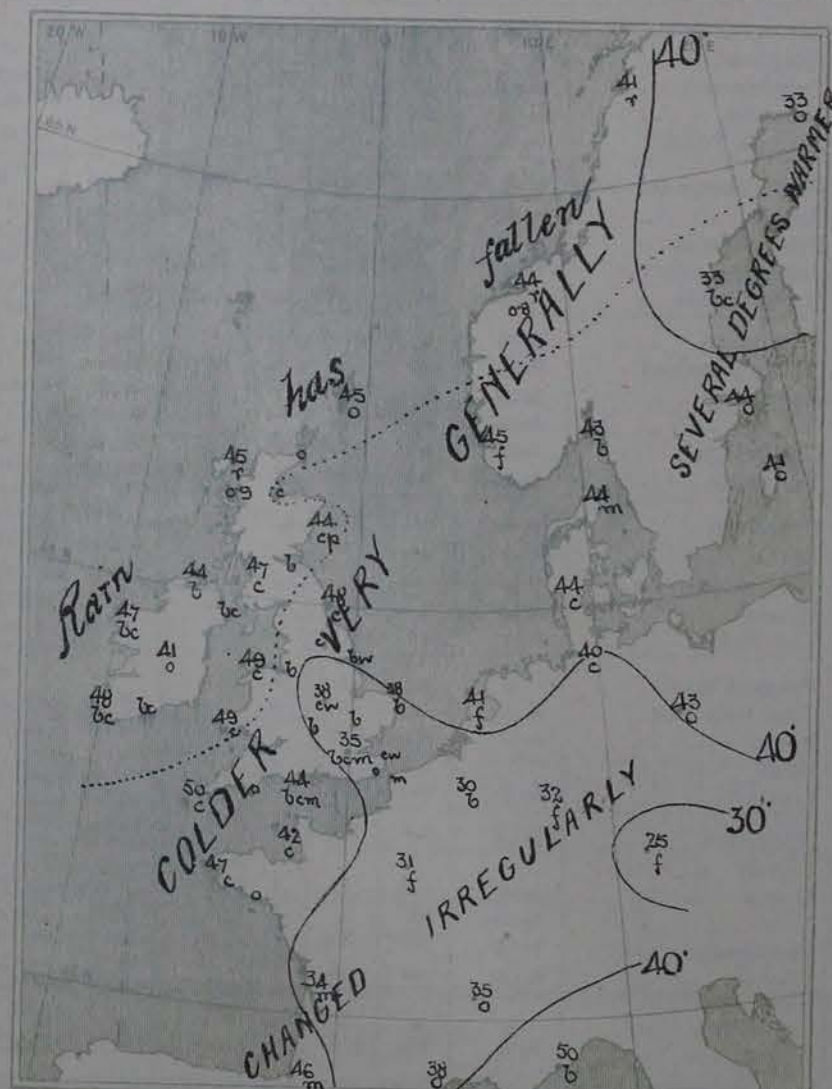
**RAINFALL**—A dotted line separates the districts in which rain has fallen from those where there has been none. Falls of 0.5 in. or more are quoted in figures.

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

(For the month of December.)

STATIONS.	TEMPERATURE				RAINFALL (Inches.)
	Daily Max.	Daily Min.	Daily at 8 a.m.	Wind	
Sumburgh Head	42.0	35.2	39.6	38.1	4.25
Stornoway	43.1	34.2	39.4	38.5	5.43
Wick	42.2	32.7	38.1	36.8	3.10
Nairn	41.9	32.8	37.1	35.0	1.95
Aberdeen	41.9	32.0	36.9	35.2	3.24
Leith	41.0	33.7	38.5	37.0	1.86
Shields	43.0	33.9	38.3	36.9	2.57
Spurn Head	42.4	35.3	38.8	37.1	2.14
York	42.3	32.3	39.4	35.1	2.26
Loughborough	42.7	32.2	36.3	35.4	2.24
Ardrossan	44.5	35.9	40.0	38.7	4.73
Mullaghmore	40.5	37.8	42.2	39.8	4.51
Donaghadee	43.8	36.2	40.9	39.2	2.84
Holyhead	40.4	30.1	42.8	41.1	3.82
Liverpool	43.5	35.0	38.8	37.1	2.59
Parsonstown	44.7	33.1	37.8	36.8	3.03
Valencia	40.7	40.0	41.6	42.4	5.09
Roche's Point	47.0	38.9	42.0	41.5	4.35
Pembroke	46.8	40.3	43.6	42.2	2.99
Scilly	49.5	43.4	47.0	45.1	1.02
Prawle Point	47.0	38.2	42.5	41.1	3.76
Jersey	47.3	39.3	43.1	41.4	3.82
Hurst Castle	45.6	36.3	40.6	39.8	2.78
Dover	44.3	35.9	39.8	38.6	2.99
LONDON	44.0	33.0	37.8	36.7	2.10
Oxford	42.9	33.5	37.0	35.9	2.10
Cambridge	42.8	31.6	36.2	35.5	1.88
Yarmouth	41.9	33.7	37.9	37.0	2.66

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 more over Germany, and 30.2 in. and more in the western parts of an anticyclone spreading thence in a westerly direction over Holland, France, Spain, and the southern half of England.  
 Lowest, 29.2 in. and less, in a depression advancing over Timmab from the south-westward, and below 29 in. in the Hebrides.  
 Gradients moderate except over the northern half of Scandinavia, where they are steep.  
 Barometer rising in the northwest of Ireland, the Netherlands, and west of Norway, falling elsewhere - decidedly over England.

## TEMPERATURE

Highest, 50° in the Riviera and at Seilly, 45° to 49° on our northern and western coasts generally, and above 40° over North Germany.  
 Lowest, 30° at Brussels, 31° at Paris, 35° in London, 36° at Oxford.  
 Maxima of 50° and more were recorded over the greater part of the Kingdom yesterday, but a sharp fall occurred on the ground over the southeast of England and northeast of France during the night.

## WIND

NE<sup>2</sup> over Spain, E<sup>1</sup> to SE<sup>2</sup> over the Bay of Biscay, S<sup>1</sup> to SW<sup>2</sup> in our Islands and WSW (a strong gale) at Hornsby, SW to W<sup>1</sup>, fresh on the eastern shores of the North Sea.

## WEATHER

Dull and rainy in Scotland and Norway, fine as a whole elsewhere, with haze in some parts of England, fog over western and southern Germany.  
 Rain has fallen in Ireland and Scotland (a considerable fall at Holyhead and in the south of Ireland); at Hornsby and Christiansund the fall was heavy.

## SEA

High at Christiansund, rough in the Minch, rather rough on our southwestern coasts, slight in the Channel.

## PROBABLE CHANGES IN SYSTEM NOW PREVALENT

# FORECASTS

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

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

The Signals are still flying in districts 0 & 1, but are lowered elsewhere.

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 ...	30.11	46	46	SSE	4	of	4	Valencia ...	30.12	52	52	SSE	6	rm	6
Sumburgh Head ...	29.81	47	46	WSW	2	r	5	Scilly ...	30.41	52	49	SSW	5	c	5
Stornoway ...	29.79	51	51	SW	8	r	6	Jersey ...	30.58	48	45	S	4	bc	3
Aberdeen ...	29.95	50	47	SSE	6	oqn	5	Hurst Castle ...	30.52	49	46	SW	3	c	4
Shields ...	30.20	52	48	SW	5	c	2	Dungeness ...	30.50	48	47	W	4	o	3
Ardrossan ...	30.01	50	49	SSE	5	o	5	North Foreland ...	30.55	50	48	SW	3	c	3
Malin Head ...	29.87	51	49	S	7	o	4	London ...	30.50	52	48	SW	3	c	3
Mullaghmore ...								Yarmouth ...	30.44	49	47	SW	2	bc	
Belmullet ...	29.91	52	50	SW	7	o	#	Rochefort ...	30.50	44	42	N	2	bc	
Holyhead ...	30.20	50	48	SSW	6	c	5								

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

Weather in morning fine over Spain, France, and the south and east of England, but hazy or foggy in places, dull and unsettled over Ireland, Scotland, northern and central Europe, with rain at Christiansund and Breslau, snow over the Gulf of Finland and at Odessa. Heavy rain at Stornoway and Bodo later, and smaller quantities at the other western and northern stations, considerable falls in Algeria also.

Temperature rising again over our Islands, fallen over France and central Europe. Morning readings highest 62° at Malta, 59° at Algiers, exceeding 50° at most stations on our western and the Scotch coasts, and exceeding 40° in many parts of Germany and Austria. Lowest (1) 8° at Archangel, 20° at Haparanda, 29° at Kuopio; (2) 26° at Hanko, 31° at Kier and Odessa; (3) 29° at Paris, 30° at Le Mans, 31° at Wiesbaden and Munich. Exceeding 60° later in many parts of Algeria, Italy, and the extreme south of France, but tending to fall a little over Scotland and Ireland.

Wind E<sup>2</sup> to NE<sup>2</sup>, and moderate over the Mediterranean and Southern Europe; S<sup>1</sup> to W<sup>3</sup> and NW<sup>2</sup> and blowing freshly in the western parts of the British Isles, nearly calm over central France and Western Germany. Rising to a gale from SW. on the northwest coast of Norway and in the Minch later; very little change elsewhere.

Barometer highest 30.7 ins. and more to 30.3 ins. in a large anticyclone covering France, Spain, the Mediterranean, Germany, and the southern parts of our Islands and the North Sea. Lowest 29.6 ins. and less, in a depression over the north of Russia, and in another off the northwest of Norway, and apparently below 29.8 ins. to the westward of Scotland. Falling briskly in the northwest and north of Scotland and rapidly in the northwest of Norway.

### 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, 18<sup>th</sup> December,

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.		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.
		Ins.	°				Ins.	°	°	°							°	Ins.		
SCANDINAVIA.	Haparanda ...	29.32	30	NNW	4	b	29.77	+44	22	21	- 11	NW	2	b	#	b	39	:		
	Hernösand ...	29.73	41	SW	8	b	29.97	+ 35	38	34	+ 5	W	2	b	#	b	43	28		
	Stockholm ...	30.01	40	NNW	2	o	30.19	+30	34	32	- 10	W	2	b	#	o	45	34		
	Wisby ...	30.08	41	NNW	4	bc	30.25	+18	38	37	- 3	NNW	2	b	#	bc	45	36		
	Bodö ...	29.69	41	WSW	6	r	29.60	+43	37	35	- 4	WSW	4	o	2	r	41	34		
	Christiansund...	29.99	42	WSW	8	o	30.03	+32	40	38	- 4	ESE	2	c	5	o	44	39		
	Skudesnaes ...	30.16	45	Z	0	bc	30.12	+02	43	41	- 2	SE	4	o	4	bc	45	41		
	Christiania Fjord (Færdø)	30.08	41	W	4	b	30.21	+22	38	37	- 5	W	2	b	2	b	43	27		
	Skagen (The Scaw)	30.20	37	Z	0	b	30.26	+15	39	39	- 5	N	1	m	0	b	45	36		
	Fanö ...	30.30	42	WSW	2	b	30.25	-04	39	38	- 5	S	4	m	#	b	45	39		
ISLANDS.	Sumburgh Head	29.96	44	W	3	c	29.64	-27	45	44	0	SSE	5	o	6	c	46	43		
	Stornoway ...	29.78	46	WSW	6	c	29.39	-35	46	46	+ 1	WSW	9	r	7	c	50	41		
	Wick ...	29.92	45	S	4	c	29.53	-36	45	44	0	S	6	c	3	c	45	40		
	Nairn ...	29.96	44	S	1	bc	29.56	-32	45	40	0	WSW	3	bc	1	bc	54	37		
	Aberdeen ...	30.05	42	HW	2	c	29.73	-28	42	40	- 2	SSE	5	c	5	c	46	38		
	Leith ...	30.08	43	Z	0	b	29.75	-29	45	41	- 4	SSE	1	o	#	b	49	35		
	Shields ...	30.15	45	SW	3	c	29.89	-23	40	39	- 8	S	3	c	2	c	51	35		
	Spurn Head ...	30.22	39	S	2	b	30.00	-27	37	36	- 1	SSE	3	c	3	bc	44	35		
	York ...	30.24	40	S	1	b	29.46	-28	38	37	- 3	S	3	b	#	b	43	35		
	Loughborough	30.24	42	WSW	1	o	30.04	-27	39	38	+ 1	S	3	o	#	o	45	36		
BRITISH.	Ardrossan ...	30.04	48	S	6	o	29.66	-44	46	46	- 1	S	6	o	6	o	50	45		
	Malin Head ...	29.77	45	SSE	7	b	29.60	-37	41	40	- 3	SW	5	or	3	b	47	41		
	Mullaghmore ...	29.70	50	SE	6	bc	29.66	-33	45	40	- 2	SW	2	bc	#	bc	50	40		
	Belmullet ...	30.03	48	S	4	c	29.69	-40	48	48	+ 3	S	6	o	4	c	49	44		
	Liverpool (Bidston)	30.15	42	ESE	3	bc	29.91	-30	41	39	- 6	ESE	3	o	2	bc	49	38		
	Holyhead ...	30.05	47	S	3	o	29.82	-36	46	45	- 3	S	5	o	5	o	49	46		
	Parsonstown ...	29.94	49	S	4	o	29.79	-33	40	39	- 1	SW	2	or	#	or	50	40		
	Valencia ...	29.82	51	SSE	6	o	29.85	-24	44	43	- 4	SW	4	h	5	o	53	43		
	Roche's Point	29.98	50	S	5	o	29.86	-31	43	43	- 6	HW	2	r	5	m	51	43		
	Pembroke (St. Ann's Hd.)	30.05	47	SE	4	c	29.87	-36	50	48	+ 1	SSW	4	og	5	o	50	45		
GERMANY & HOLLAND.	Scilly ...	30.07	49	SSE	5	c	29.92	-34	51	47	+ 1	S	5	c	5	c	51	47		
	Prawle Point ...	30.22	44	S	3	c	30.03	-30	47	46	+ 1	S	5	o	4	c	47	41		
	Jersey (St. Aubin's)	30.24	41	SSE	3	o	30.11	-27	40	40	- 2	SE	3	ogm	3	bc	46	36		
	Hurst Castle ...	30.23	42	SW	2	o	30.09	-25	45	43	+ 1	SSW	3	c	2	o	45	41		
	Dungeness ...	30.30	39	SW	3	o	30.11	-27	43	41	+ 2	SW	4	o	3	o	47	34		
	North Foreland	30.31	38	SW	2	b	30.13	-26	41	40	+ 3	SW	2	bc	2	o	42	29		
	London ...	30.28	41	SW	1	o	30.09	-29	39	38	+ 4	S	1	bc	#	bc	44	36		
	Oxford ...	30.20	39	SE	2	o	30.07	-28	40	39	+ 4	SSE	3	ogf	#	o	44	36		
	Cambridge ...	30.28	35	SSE	1	bc	30.09	-27	37	37	+ 2	SSE	1	b	#	bc	45	33		
	Yarmouth ...	30.30	40	SSW	1	b	30.11	-27	36	35	- 2	SW	2	c	3	b	48	34		
FRANCE AND BELGIUM.	Cuxhaven ...	30.41	40	SSW	2	o	30.25	-18	32	30	- 8	SE	3	f	#	o	40	30		
	Berlin ...	30.39	42	NNW	2	o	30.37	-10	35	34	- 8	E	1	o	#	o	45	35		
	Wiesbaden ...	#	#	#	#	#	30.32	-24	34	33	+ 2	SE	2	o	#	#	37	32		
	Munich ...	30.43	27	E	2	f	30.32	-22	26	26	+ 1	W	1	f	#	f	28	23		
	The Helder ...	30.39	37	SSE	1	f	30.20	-25	33	32	+ 8	SSE	1	b	1	f	41	32		
	Brussels (9 a.m.)	#	#	#	#	#	30.09	-27	34	34	+ 3	SW	3	f	#	f	?	28		
	Cape Gris Nez	30.26	31	SSE	1	f	30.23	-26	32	32	+ 1	SE	1	o	#	o	34	31		
	Paris ...	30.33	34	SE	2	o	?	?	50	49	+ 3	S	3	o	3	o	54	37		
	Brest ...	?	41	ESE	3	o	30.09	-27	42	42	+ 1	SE	4	m	5	m	43	36		
	Lorient ...	30.20	37	E	5	m	?	?	?	?	?	?	?	?	?	?	?	?		
FRANCE AND BELGIUM.	Rochefort ...	30.25	37	SE	3	f	30.13	-24	37	36	+ 3	ESE	3	b	#	f	39	34		
	Belfort ...	?	42	E	3	c	?	?	30	30	?	E	3	c	#	c	40	30		
	Lyons ...	30.40	34	N	1	b	30.32	-22	28	28	- 7	N	1	f	#	b	41	28		
	Nice ...	30.32	51	E	1	b	30.21	-20	51	42	+ 1	E	1	b	#	b	63	48		
	Perpignan ...	30.31	48	Z	0	o	30.21	-26	37	37	- 1	SW	1	bc	#	o	52	37		
	Biarritz ...	30.22	46	E	4	b	30.07	-29	43	39	- 3	SE	3	b	4	b	55	39		
PENIN- SULA.	Corunna ...	#	#	#	#	#	30.01	?	45	44	?	NNE	4	o	#	#	57	43		
	Lisbon ...	30.08	50	NE	2	b	?	?	?	?	?	?	?	?	?	?	?	?		

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, 18<sup>th</sup> Dec<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—

→ force above 10; →→ force 8 to 10;  
→→ force 5 to 7; →→ force 1 to 4  
— dead calm.

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

▨ = rough. ▨ = High

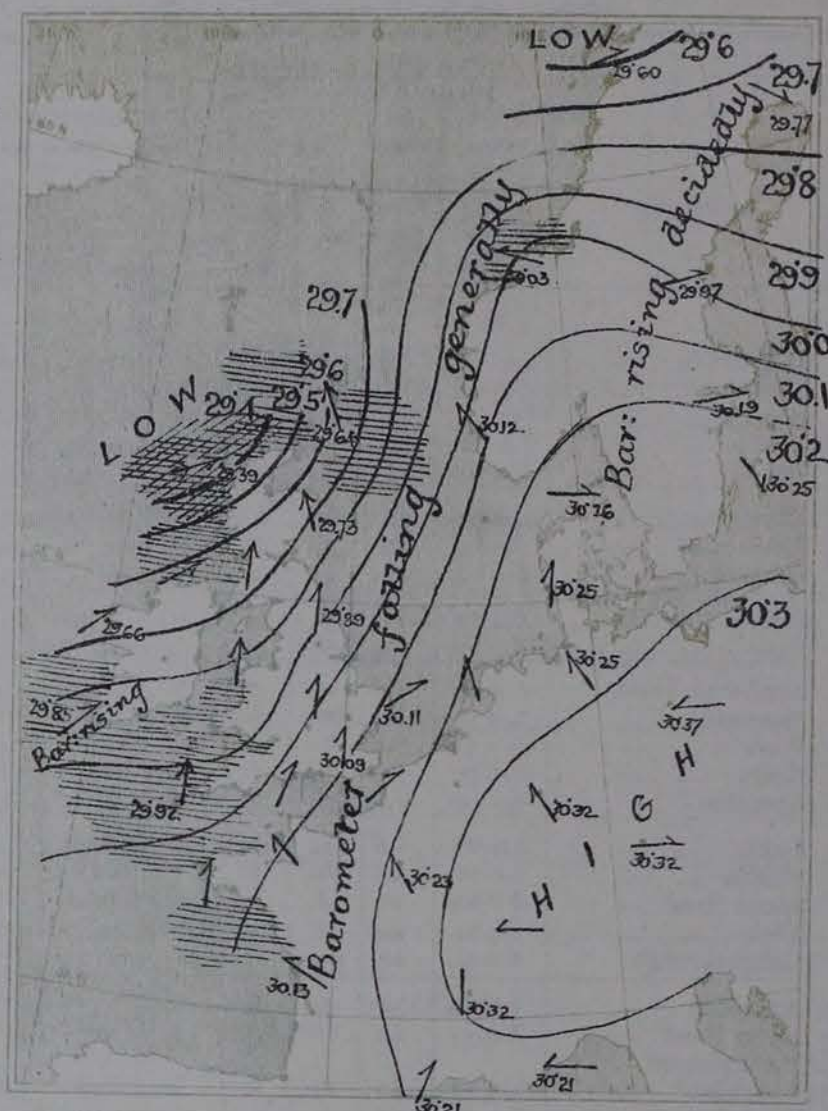
## MEAN HEIGHT OF THE BAROMETER

at 8 a.m. for the month of December.  
During the 20 Years 1871–1890.

### STATIONS.

### MEAN READINGS.

STATIONS.	MEAN READINGS.
Summerville Head	29.673
Stornoway	29.705
Wick	29.718
Nairn	29.743
Aberdeen	29.767
Leith	29.807
Shields	29.843
Spurn Head	29.873
York	29.890
Loughborough	29.924
Ardrossan	29.939
Mullagmore	29.921
Donaghadee	29.843
Holyhead	29.879
Liverpool	29.805
Parsonstown	29.901
Valencia	29.905
Roche's Point	29.912
Pembroke	29.916
Selly	29.907
Prayle Point	29.970
Jersey	29.983
Hurst Castle	29.958
Dover	29.953
LONDON	29.954
Oxford	29.955
Cambridge	29.941
Yarmouth	29.916





# GENERAL SITUATION AT 8 A.M.

## PRESSURE

Highest, 30.3 ins. and more to 30.1 ins. over Germany, the Netherlands and France.

Lowest, 29.4 ins. and less, in a depression off the extreme northwest of Scotland.

Gradients irregular - mainly favourable for S<sup>3</sup> winds, and steep over Scotland and the northern half of the North Sea.

Barometer unsteady - rising on the southwest coasts of Ireland.

## TEMPERATURE

Highest, 51° at Scilly, 50° at Pembroke, 47° at Paele B.

Lowest, (1) 22° at Haparanda, 34° at Stockholm; (2) 26° at Munich, 28° at Lyons, 30° at Orléans, 32° at Paris.

It is changing fitfully in the southwest of our Islands. Sharp frost occurred over the northeast of France and in Belgium during the night.

## WIND

SE<sup>3</sup> moderate to light in the west and north of France, S<sup>3</sup> over the British Islands as a whole, and blowing strongly over the northern districts and a gale at Donoway. Over Central Europe variable airs prevail.

## WEATHER

Fine and bright over Sweden and at some of our northeastern, cloudy or overcast elsewhere - rising in Ireland and the Hebrides, foggy over many parts of Central Europe. Appearance is very unstable. Some rain has again fallen in Ireland and a few drizzling showers in London.

## SEA

High in the North, rough at Limerick Head, and rather so on our west and southwest coasts.

## PROBABLE CHANGES IN SYSTEM NOW PREVALENT

A depression off our northwest coasts, and a small one near Pembroke are both moving northeastwards. Others, however, are likely to follow; the signals are therefore left up in the west and north.

# FORECASTS

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

SW<sup>2</sup> and S<sup>2</sup> winds, varying greatly in force; rain at times.

S<sup>2</sup> and Varying winds, moderate; changeable, some rain.

## DISTRICTS.

## FORECASTS.

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

S<sup>2</sup> winds, force uncertain but probably strong to a gale, rainy.

## WARNINGS

SOUTH CONE was hoisted again yesterday in districts 0, 1 and 6 to 10.

Note.—The South Cone, point downwards (†), means that gales, or strong winds, are probable, at first from the Southward (from S. by 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. 07	45	45	SSE	2	rf	3	Valencia ...							
Sumburgh Head								Scilly ...							
Stornoway ...	29. 88	45	45	SW	6	0	5	Jersey ...	30. 33	45	43	SSE	4	bc	3
Aberdeen ...								Hurst Castle ...							
Shields ...								Dungeness ...	30. 32	41	40	SW	4	0	3
Ardrossan ...								North Foreland ...	30. 33	42	40	S	2	0	2
Malin Head ...	29. 92	46	43	SSE	6	0	3	London ...							*
Mullaghmore ...								Yarmouth ...							
Belmullet ...	29. 78	48	44	SE	6	0	*	Rochefort ...	30. 31	36	35	SE	3	f	*
Holyhead ...															

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

*Weather* fine over the greater part of the United Kingdom, but dull in the north of Scotland, with rain at Stornoway and passing showers at Aberdeen. Dull over a considerable portion of the Continent with fog in Holland, Central France, Poland and the southern parts of Germany, and with rain in the west of Norway. Fine and bright in Italy, Austria and the southern parts of France and Spain. Rain setting in later at many of our western and extreme northern stations and dull weather spreading over England.

*Temperature* fallen in most countries, — briskly over England, but rain over Sweden, and the Baltic. Morning readings highest 61° at Malta, 59° at Brindisi, 58° at Algiers, and 55° at Lissa and Otar, ranging between 48° and 53° in the extreme southwest of our Islands. Lowest (1.) 2° at Aitchangel and 25° at Kuopio, (2.) 25° at Munich 35° at Leningrad and 31° at Paris; below 40° over the eastern and central parts of England. Rising during day to 53° or more at several of our own western and northern stations, and reaching 54° at Ayr; remaining below 40° in some parts of Central France, but exceeding 60° in the Riviera.

*Wind* light to moderate from the Southeast in the west of France, and from the South or Southwest over the greater part of the United Kingdom, but strong to a gale from West-northwest in the Hebrides, moderate to strong from the West or Southwest over Scandinavia, Denmark and North Germany; light from the Northwest or North over Austria and the South of Russia, North-easterly in Spain and Italy; variable in the south of France and also in Algeria. Subsequently backing to the Southeast on our western coasts and increasing to a slight gale in the south of Ireland.

*Barometer* highest 30.5 inches and upwards over the east of France and the southern parts of Germany; 30.3 inches and upwards in a large anticyclone covering the greater part of Central and Southern Europe and extending over the south and southeast of England. Lowest 29.2 inches and less in a depression over the north of Norway, 29.8 inches and less in another system lying to the north of the Hebrides. New disturbance approaching the Irish coasts later and barometer falling decidedly in the west.

## SUMMARY OF CHANGES IN THE WEATHER OVER THE BRITISH ISLANDS AND THEIR NEIGHBOURHOOD. FROM SUNDAY 10<sup>TH</sup> TO SATURDAY 16<sup>TH</sup> DECEMBER 1893.

The very stormy weather which set in over our Islands during the latter half of last week continued with us until late on Thursday (14<sup>th</sup>), depression after depression following in quick succession and causing very strong gales from between Southeast and Southwest in all parts of our Islands. Rainfall was abundant, especially in the west; some wet snow fell in several places, but bright intervals occurred on several occasions especially at night. The changes in temperature were consequently frequent and considerable.

On Friday morning an improvement had occurred — a well formed anticyclone had advanced over France, and our southern counties from the Atlantic, and the depressions observed were confined to the extreme northwestern and northern districts.

At 8 a.m. on Saturday pressure was as high as 30.7 inches, and more at the Central French, and Western German stations, but was below 29.6 inches in the west of Norway and below 29.8 inches in the northwestern parts of Scotland and Ireland. Depressions were then again encroaching on our northwestern coasts from the Atlantic and in those regions southerly and southeasterly gales were again becoming dominant.

### 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 TUESDAY, 19<sup>TH</sup> DECEMBER, 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.							
Inch.	°			Inch.	°	°	°	°				°	Inch.								
SCANDINAVIA.																					
Haparanda ...	29.04	13	2	0	b	29.96	+19	5	5	-17	SE	2	bc	34	5	—					
Hernösand ...	30.10	24	2	0	bc	29.82	-15	32	31	-6	S	4	bc	48	23	—					
Stockholm ...	30.23	31	2	0	o	30.04	-15	38	32	-1	SW	2	o	39	28	—					
Wisby ...	30.26	34	2	2	b	30.11	-14	37	36	-1	SW	2	o	39	28	—					
Bodö ...	29.88	24	2	2	b	29.96	-04	35	31	-2	E	4	o	37	32	—					
Christiansund...	29.63	27	NE	2	bc	29.62	-41	41	41	+1	ENE	1	bc	47	40	—					
Skudesnaes ...	29.85	43	SE	8	o	29.69	-145	48	44	+2	S	6	T	45	43	—					
Christiania Fjord (Færder)	30.07	41	SE	4	o	29.86	-21	40	39	+2	SE	4	o	41	37	—					
Skagen (The Scaw)	30.06	40	SW	4	o	29.89	-17	38	37	-1	SW	3	o	41	36	0.01					
Fanö ...	30.04	38	SW	4	o	29.88	-17	34	34	-5	SE	4	m	41	34	—					
Sumburgh Head	29.42	41	W	3	T	29.36	-28	42	40	-3	SE	2	o	45	39	0.21					
Stornoway ...	29.48	40	W	5	C	29.38	-31	42	41	-4	SE	6	C	46	36	0.02					
Wick ...	29.51	44	S	2	bc	29.26	-27	41	40	-4	S	4	C	45	37	—					
Nairn ...	29.53	38	2	0	bc	29.22	-34	40	37	-5	ENE	2	C	45	34	0.02					
Aberdeen ...	29.63	40	SW	5	bc	29.30	-43	42	40	0	SE	5	og	45	38	—					
Leith ...	29.69	42	SW	2	b	29.24	-37	39	37	-6	SE	2	o	48	36	0.01					
Shields ...	29.81	42	SW	2	m	29.31	-38	45	44	+5	SE	4	T	45	36	0.04					
Spurn Head ...	29.90	41	S	4	bc	29.48	-32	42	40	+5	S	5	o	43	36	—					
York ...	29.84	45	SW	3	C	29.35	-61	44	42	+6	SE	4	o	45	37	0.10					
Loughborough	29.93	45	SW	4	o	29.46	-38	44	42	+5	SE	6	o	46	37	—					
ISLANDS																					
Ardrossan ...	29.68	46	S	4	C	29.13	-55	41	40	-5	E	4	om	46	35	0.17					
Malin Head ...	29.59	40	S	6	b.f	29.82	-78	40	39	-1	SE	7	og	48	40	0.69					
Mullaghmore ...	29.63	44	SW	4	b	29.30	-36	46	45	+1	SW	2	o	48	40	0.53					
Donaghadee ...	29.78	41	SE	4	o	29.08	-64	44	44	-4	S	8	T	48	39	0.24					
BRITISH																					
Liverpool (Bidston)	29.86	42	SW	1	o	29.22	-69	46	45	+5	SE	4	T	49	38	0.50					
Holyhead ...	29.82	43	SW	2	bc	29.12	-70	45	44	-1	SW	6	T	49	38	0.19					
Parsonstown ...	29.78	40	S	1	bc	29.88	-91	45	44	+5	S	1	OT	45	37	0.09					
Valencia ...	29.76	46	S	3	C	29.86	-99	48	48	+4	SW	4	omp	50	44	0.82					
Roche's Point	29.83	46	SW	3	bc	29.98	-91	48	47	+5	SW	5	C	48	43	0.40					
Pembroke (St. Ann's Hd.)	29.87	47	SW	3	C	29.16	-71	47	47	-3	S	8	T	50	43	0.29					
Scilly ...	29.91	48	W	2	om	29.23	-69	49	49	-2	S	8	pm	50	45	0.25					
Prawle Point ...	29.91	49	SW	4	C	29.38	-65	49	49	0	SW	7	T	50	45	0.03					
Jersey (St. Aubin's)	30.04	43	SE	3	C	29.64	-47	44	43	+4	SE	3	omp	44	39	—					
Hurst Castle ...	30.22	47	SW	4	bm	29.54	-55	46	45	+1	SW	7	om	48	44	—					
Dungeness ...	30.05	42	SW	3	o	29.69	-42	43	42	0	SW	5	C	45	40	—					
North Foreland	30.07	39	S	3	o	29.68	-48	39	38	-2	S	5	og	43	35	—					
London ...	30.02	42	SW	1	bm	29.89	-50	45	43	+6	SW	5	og	46	37	—					
Oxford ...	29.97	44	S	2	o	29.49	-58	44	43	+4	SE	3	C	45	40	—					
Cambridge ...	30.00	41	SE	2	C	29.37	-52	44	42	+7	SE	6	o	44	38	—					
Yarmouth ...	30.02	41	S	3	b	29.65	-46	42	41	+6	SW	4	og	42	35	—					
GERMANY & HOLLAND																					
Cuxhaven ...	30.16	30	SE	2	C	29.96	-29	31	30	-1	SE	2	b	35	30	—					
Berlin ...	30.26	34	SE	4	o	30.10	-27	31	31	-4	SE	2	b	43	31	—					
Wiesbaden ...	30.25	35	S	0	f	30.12	-20	30	30	-4	SE	3	o	36	30	—					
Munich ...	30.25	35	S	0	f	30.14	-18	22	22	-4	E	4	f	28	21	—					
The Helder ...	30.12	35	S	2	f	29.84	-36	32	32	-1	S	3	f	39	30	—					
FRANCE AND BELGIUM.																					
Brussels (9 a.m.)	30.02	31	S	1	f	29.89	-34	35	33	+5	SE	5	b	35	25	—					
Cape Gris Nez	30.16	31	SE	2	o	29.71	-38	38	37	+4	S	3	m	38	30	—					
Paris ...	30.16	31	SE	2	o	29.93	-30	30	30	-2	SE	2	b	33	29	—					
Brest ...	30.06	44	SE	4	C	29.70	-39	30	31	+2	SW	6	o	34	28	—					
Lorient ...	30.06	44	SE	4	m	29.70	-39	30	31	+2	SW	6	bc	30	24	—					
Rochefort ...	30.09	41	ENE	3	b	29.91	-22	41	41	+4	S	4	m	46	36	—					
Belfort ...	30.26	35	N	1	f	30.15	-17	37	35	-4	N	1	b	32	24	—					
Lyons ...	30.26	35	N	1	f	30.17	-14	37	35	-4	N	1	b	32	24	—					
Nice ...	30.26	35	N	1	f	30.17	-14	37	35	-4	N	1	b	32	24	—					
Perpignan ...	30.26	35	N	1	f	30.17	-14	37	35	-4	N	1	b	32	24	—					
Biarritz ...	30.26	35	N	1	f	30.17	-14	37	35	-4	N	1	b	32	24	—					
PENINSULA.																					
Corunna ...	30.04	32	N	4	b	30.10	+09	48	46	+2	S	2	o	35	25	—					
Lisbon ...	30.04	32	N	4	b	30.10	+09	48	46	+2	S	2	o	35	25	—					

For Explanation of Columns, see bottom of last page.

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



# WEATHER CHARTS

Tuesday, 19<sup>th</sup> Dec<sup>r</sup>, 1893.  
for 8 a.m. on

## 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

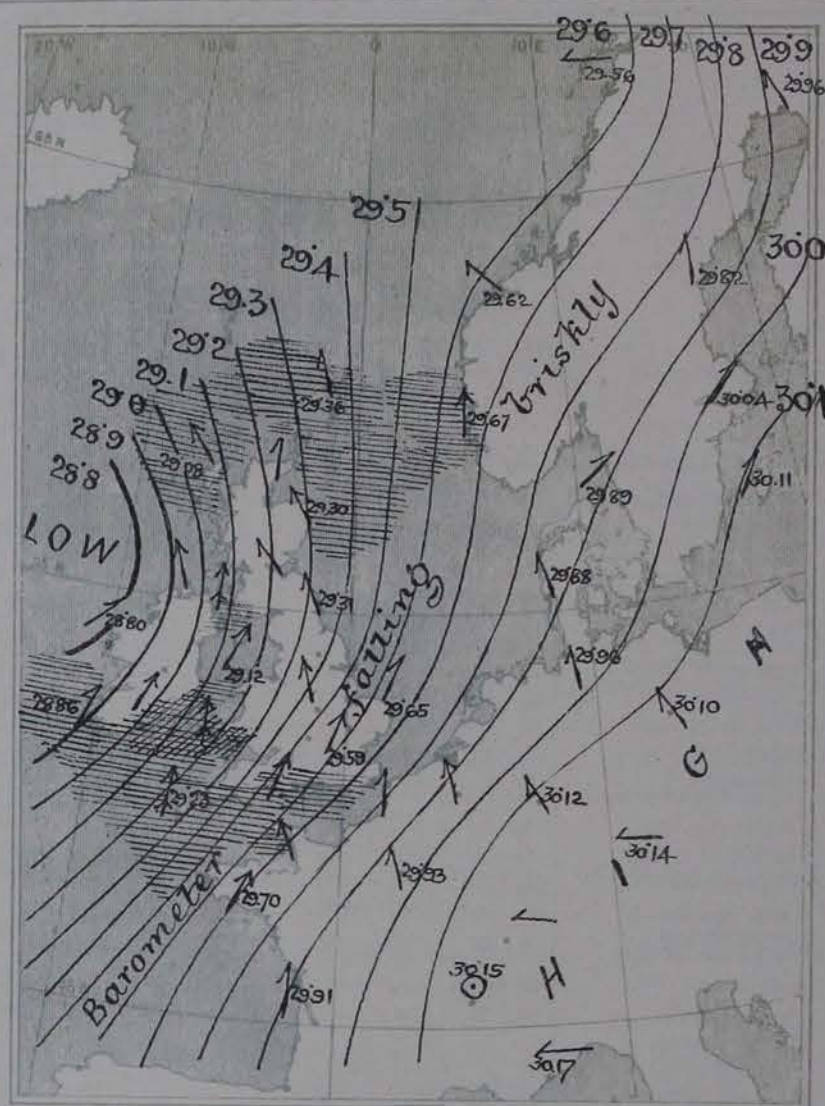
— Rough. — High.

## MEAN HEIGHT OF THE BAROMETER

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

During the 20 Years 1871–1890.

STATIONS.	MEAN READINGS.
Sumburgh Head	29.673
Stornoway	29.705
Wick	29.718
Nairn	29.743
Aberdeen	29.767
Leith	29.807
Shields	29.845
Spurn Head	29.873
York	29.890
Loughborough	29.924
Ardrossan	29.929
Mullaghmore	29.921
Donaghadee	29.848
Holyhead	29.879
Liverpool	29.895
Parsonstown	29.901
Valencia	29.905
Roche's Point	29.912
Pembroke	29.916
Selly	29.931
Prawle Point	29.970
Jersey	29.985
Hurst Castle	29.958
Dover	29.953
LONDON	29.954
Oxford	29.955
Cambridge	29.941
Yarmouth	29.916



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

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

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

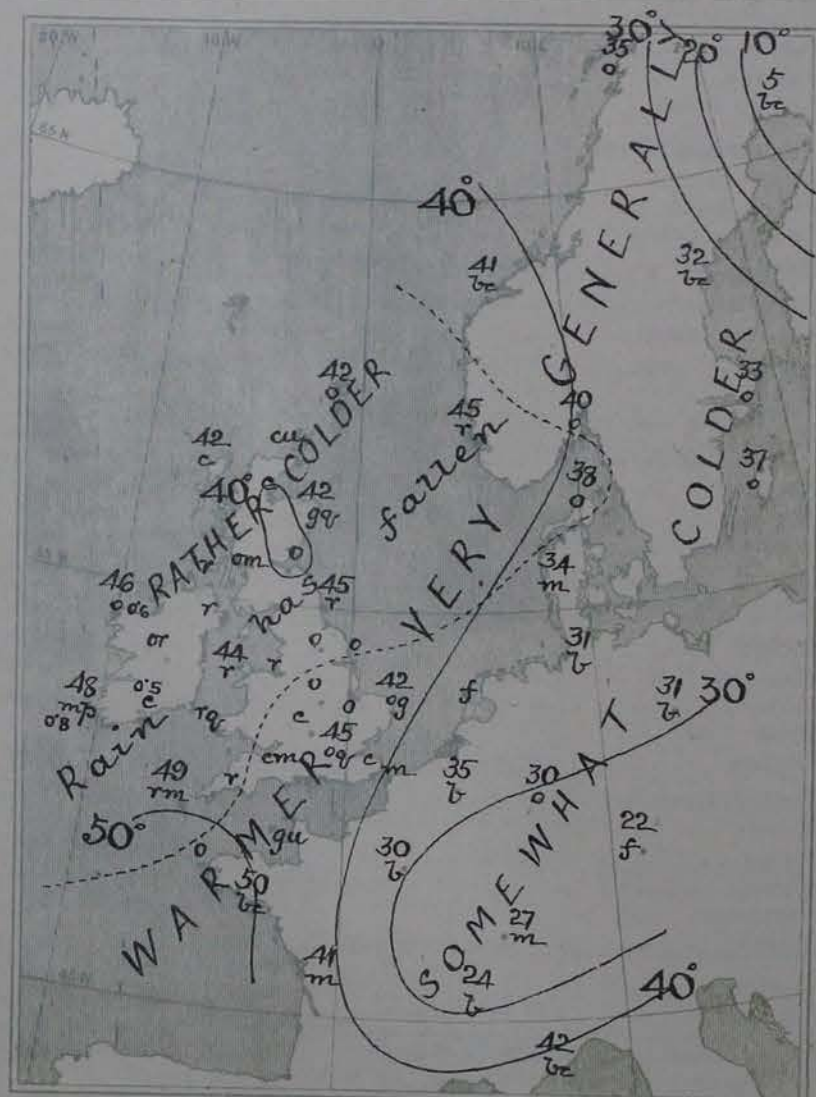
**RAINFALL**—A dotted line separates the districts in which rain has fallen from those where there has been none. Falls of 0.5 in. or more are quoted in figures.

## MEANS OF TEMPERATURE IN SHADE, AND RAINFALL.

(For the month of December.)

STATIONS.	TEMPERATURE.				RAINFALL (Inches.)
	Daily Max.	Daily Min.	Dry.	Wet.	
Sumburgh Head	42.6	35.2	39.6	38.1	4.25
Stornoway	43.1	34.2	39.4	38.5	5.03
Wick	42.2	32.7	38.1	36.8	5.10
Nairn	41.9	32.8	37.1	35.6	1.05
Aberdeen	41.9	32.6	36.9	35.2	3.21
Leith	44.0	33.7	38.5	37.0	1.80
Shields	42.9	33.9	38.3	36.9	2.55
Spurn Head	42.4	35.3	38.8	37.7	2.14
York	42.3	32.3	36.4	35.4	2.28
Loughborough	42.7	32.2	36.3	35.4	2.24
Ardrossan	44.5	35.0	40.0	38.7	3.73
Mullaghmore	40.5	37.8	42.2	39.8	4.51
Donaghadee	45.8	36.2	40.2	39.3	2.84
Holyhead	46.4	39.1	42.9	41.1	3.82
Liverpool	43.5	35.0	38.8	37.4	2.50
Parsonstown	44.7	33.1	37.8	36.0	3.04
Valencia	49.7	40.0	44.6	42.4	5.99
Roche's Point	47.9	38.0	42.9	41.5	4.35
Pembroke	46.8	40.3	43.4	42.2	3.02
Selly	49.5	43.4	47.0	45.1	4.02
Prawle Point	47.0	38.2	42.5	41.1	3.76
Jersey	47.3	39.3	43.1	41.4	3.82
Hurst Castle	45.6	36.3	40.6	39.8	2.78
Dover	44.3	35.9	39.8	38.6	3.00
LONDON	44.0	33.9	37.8	36.7	2.10
Oxford	42.9	33.5	37.0	35.9	2.10
Cambridge	42.8	31.6	36.2	35.5	1.88
Yarmouth	41.9	33.7	37.9	37.0	2.66

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, 30.1 in: and upwards over the Baltic and the eastern and southern parts of Germany and France.  
Lowest, 28.8 in: and less, in a depression lying off the northwest of Ireland.

Gradients steep over the western part of the Channel and rather steep over our Islands and the North Sea generally.  
Barometer falling in all part of Western Europe, — rapidly in the west of our Islands.

## TEMPERATURE

Highest, 52° at Brest, 50° at Lorient, 49° at Scilly, 48° at Valencia (Ireland), Rock Point and Lisbon, and 47° at Pembroke and Prætor Point.

Lowest, (1) 5° at Haparanda and 32° at Herne; and (2) 22° at Munich, 24° at Lyons, 30° at Wiesbaden, and 31° at Copenhaven and Berlin.

The maxima registered over our Islands yesterday ranged in most cases between 45° and 50°, but at Scilly the thermometer reached 53°.

## WIND

S<sup>3</sup> over Ireland, England, France, with a gale on many parts of our west and southwest coasts.

Moderate to strong from the SE<sup>2</sup> in Scotland, and also over Denmark, Germany, and the Netherlands.

S<sup>1</sup> or SE<sup>1</sup> in Scandinavia.

## WEATHER

Cloudy or overcast in our Islands, with rain at most of our western stations.

Fine over the greater part of Sweden, Germany, France and the Netherlands, but dull in the south of Norway with rain at Skudenæs.

Since yesterday morning heavy rain has fallen in Ireland, and slight amounts in the north of our Islands.

A Solar halo was seen at Rock Point, and lunar halos at Wick and Spurn Head.

## SEA

Very high at Pembroke and rough or rather so on all but our east coasts.

## PROBABLE CHANGES IN SYSTEM NOW PREVALENT

The depression in the west is likely to move northwards, but at the same time to spread out in an easterly direction. Gales from the southward are probable on nearly all our coasts.

## FORECASTS

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

### DISTRICTS.

### FORECASTS.

† 0	SCOTLAND NORTH	} SE <sup>2</sup> and S <sup>2</sup> winds, increasing to a gale; dull, some rain.
† 1	SCOTLAND EAST	
† 2	ENGLAND N.E.	} Same as N° 5
† 3	ENGLAND EAST	
† 4	MIDLAND COUNTIES	
† 5	ENGLAND SOUTH	S <sup>2</sup> winds, increasing to a gale; squally, rain at times.

### DISTRICTS.

### FORECASTS.

† 6	SCOTLAND WEST	Same as N° 0 and 1.
† 7	ENGLAND N.W.	} S <sup>2</sup> gales, moderating later; squally, rain at times.
† 8	ENGLAND S.W.	
† 9	IRELAND NORTH	} S <sup>2</sup> and SW <sup>2</sup> winds, strong in places; squally, showery.
† 10	IRELAND SOUTH	
WARNINGS		At 10 a.m. to districts 2, 3, and 5 Hoist South 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 ...	29.95	44	41	SE	8	c	5	Valencia ...	29.85	44	46	SW	5	c	5
Sumburgh Head ...	29.44	45	44	S	5	o	6	Scilly ...	29.95	44	46	W	3	cp	5
Stornoway ...	29.44	45	45	W	8	o	4	Jersey ...	30.10	41	40	S	3	f	3
Aberdeen ...	29.58	44	42	S	5	ogg	6	Hurst Castle ...	30.03	47	45	SW	4	f	3
Shields ...	29.77	44	42	SW	4	m	2	Dungeness ...	30.08	41	40	SW	3	o	2
Ardrossan ...	29.67	45	45	SW	5	f	4	North Foreland ...	30.09	40	39	SW	2	bc	2
Malin Head ...	29.53	45	40	SW	6	bf	4	London ...	30.04	47	44	S	2	cm	4
Mullaghmore ...								Yarmouth ...	30.04	42	40	SW	4	c	3
Belmullet ...	29.66	45	42	SW	5	cp	#	Rochefort ...	30.12	44	42	SE	3	f	4
Holyhead ...	29.93	42	42	W	1	o	2								

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

Weather cloudy or overcast in most parts of the United Kingdom, with rain in Ireland and the Hebrides. Fine and bright in Sweden and also in Italy and the south of France, but cloudy in most other Continental countries, with fog in many parts of France, Germany, and the south of Russia, rain at Madrid, and snow at Archangel. Sky clearing later at several of the English stations, but heavy rain falling in Ireland, and small amounts in the western and northern parts of Great Britain.

Temperature fallen generally. Morning readings highest (1) 61° at Malta, 59° at Tunis, and 57° at Langunsare and La Calle; (2) 51° at Scilly and 50° at Hambro and Brest; above 45° at many of our western and northern stations. Lowest 8° at Archangel, 21° at Kharkov, 22° at Haparanda, and 24° at Uleaborg; below the freezing point in many parts of Russia, Germany, and Central France. Rising during day to between 45° and 50° in many parts of the United Kingdom, but reaching 53° at Scilly. Remaining below 40° at some of the Central French stations but exceeding 60° in the Riviera.

Wind S<sup>4</sup> (SE to SW) over the greater part of Western Europe, light to fresh in force generally, but strong to a gale in the Hebrides. Light from the W<sup>4</sup> in Sweden, and from the NW<sup>4</sup> in Russia. N<sup>1</sup> in Italy and NE<sup>1</sup> in Spain, but S<sup>1</sup> or SE<sup>1</sup> in Algeria. No important change occurring during day, but gale in Hebrides subsiding.

Barometer highest 30.20 ins. to 30.45 ins. in a large anticyclone covering the whole of Central and a considerable portion of Southern Europe. Lowest 29.3 ins. and less in a depression over northern Russia; 29.4 ins. and less in another system to the northward of the Hebrides (small secondary disturbances lying over various parts of our western coast). Depression near Hebrides subsequently passing away to the northeastward, but new disturbance beginning to approach the Irish coast 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. 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 8 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, 20<sup>th</sup> December,

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.		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.
Ins.		°				Ins.	°	°	°									Ins.		
SCANDINAVIA.	Haparanda ...	29.84	29	SW	2	0	29.63	- .33	21	20	+ 16	Z	0	f	#	0	30	1	-	
	Hernösand ...	29.70	23	Z	0	0	29.53	- .29	32	31	0	Z	0	f	#	0	34	21	-	
	Stockholm ...	29.83	34	Z	0	0	29.58	- .46	36	35	+ 3	S	4	f	#	0	36	28	-	
	Wisby ...	29.89	36	SSW	2	0	29.63	- .48	37	36	0	SSW	2	0	#	0	39	32	-	
	Bodö ...	29.42	32	E	4	6	29.27	- .29	36	32	+ 1	E	6	6	3	6	36	27	-	
	Christiansund...	29.37	44	ESE	3	6c	28.96	- .66	45	39	+ 4	ESE	4	0	3	6c	45	41	-	
	Skudesnaes ...	29.85	43	SSE	8	0	28.82	- .85	42	40	- 3	SE	9	r	7	0	45	41	-	
	Christiania Fjord (Paerder)	?	39	SSE	4	0	29.23	- .63	37	36	- 3	ESE	6	r	4	0	40	36	-	
	Skagen (The Scaw)	29.66	37	SSW	4	m	29.19	- .70	40	39	+ 2	SW	4	r	1	m	43	36	0.04	
	Fanö ...	29.51	34	SSE	6	6	29.44	- .74	41	40	+ 7	S	6	c	#	6	41	32	0.04	
BRITISH ISLANDS.	Sumburgh Head	28.88	44	SSE	5	r	28.43	- .93	42	42	0	Z	0	r	5	r	45	40	0.35	
	Stornoway ...	28.72	43	SE	4	r	28.60	- .48	37	36	- 5	W	4	c	4	0.1	43	35	0.14	
	Wick ...	28.72	45	S	8	OU	28.51	- .75	37	36	- 4	NW	8	OU	6	0.1	47	35	0.20	
	Nairn ...	28.70	45	Z	0	c	28.63	- .59	38	36	- 2	NSW	3	c	1	c	46	36	0.09	
	Aberdeen ...	28.80	45	SSE	8	ogty	28.66	- .64	38	35	- 4	NSW	3	6c	5	ty p	45	38	0.28	
	Leith ...	28.80	44	SSE	2	c	28.75	- .49	38	36	- 1	NSW	3	0	#	c	47	37	0.01	
	Shields ...	28.91	46	S	6	c	28.87	- .44	40	38	- 5	SSW	3	0	3	r.o.c	47	32	0.03	
	Spurn Head ...	29.03	43	SSE	7	op	28.97	- .51	40	38	- 2	SSW	4	0	3	op	45	38	0.02	
	York ...	29.01	45	S	5	r	28.93	- .42	40	39	- 4	S	1	0	#	r	45	38	0.12	
	Loughborough	29.03	46	SSW	4	6c	28.98	- .48	40	39	- 4	SSE	3	r	#	r.6c	47	38	0.30	
GERMANY & HOLLAND.	Ardrossan ...	28.76	47	S	3	0	28.78	- .35	42	40	+ 1	NSW	2	0	3	p.r.o	47	40	0.18	
	Malin Head ...	28.68	44	W	7	og	28.81	- .01	41	38	+ 1	NW	4	6c	3	p.oq	45	40	0.10	
	Mullaghmore ...	29.04	45	W	9	bcyp	28.90	+ .10	40	38	- 6	NW	2	6c	#	ogpbcyp	48	38	0.15	
	Belmullet ...	28.82	44	NW	4	0	28.83	- .22	36	35	- 8	NW	4	c	2	0	46	32	0.15	
	Donaghadee ...	28.82	44	NW	4	0	28.83	- .22	36	35	- 8	NW	4	c	2	0	46	32	0.15	
	Liverpool (Blanton)	28.92	45	SSE	3	0	28.85	- .37	39	38	- 7	SE	2	r	3	0	47	38	0.29	
	Holyhead ...	28.91	45	SSW	6	ty	28.79	- .33	39	39	- 6	E	2	OT	2	bc,ty	48	39	0.35	
	Parsonstown ...	27.07	42	SW	1	c	28.79	- .09	34	33	- 11	NE	1	OTS	#	0.18	47	34	0.43	
	Valencia ...	29.32	44	W	7	cqprh	28.84	- .02	39	38	- 9	N	7	0	6	cqprh	50	37	0.61	
	Roche's Point	29.24	44	NW	7	b	28.64	- .31	43	43	- 5	NHE	5	r	5	b.r	50	41	0.65	
FRANCE AND BELGIUM.	Pembroke (St. Ann's Hd.)	29.10	47	NW	7	c	28.60	- .56	50	49	+ 3	SW	7	og	7	c	50	42	0.49	
	Scilly ...	29.28	49	NW	7	c	28.88	- .35	51	50	+ 2	W	8	cq	7	cq	52	44	0.75	
	Prawle Point ...	29.32	46	NHE	6	r	28.88	- .53	48	48	+ 1	NSW	6	r	5	ogty	50	44	0.40	
	Jersey (St. Aubin's)	29.32	49	NSW	7	cqprh	29.10	- .54	49	48	+ 5	S	7	omr	6	ogty	57	43	0.42	
	Hurst Castle ...	29.16	40	NSW	6	0	29.00	- .54	46	46	0	S	8	ogprh	6	OT	52	33	0.43	
	Dungeness ...	29.28	47	SSW	9	ty	29.18	- .51	44	43	+ 1	SW	8	r	7	c,ty	49	41	0.27	
	North Foreland	29.26	46	S	8	ty	29.16	- .52	46	43	+ 7	S	6	tyq	3	cq,ty	48	35	0.08	
	London ...	29.17	47	S	7	r	29.06	- .53	42	41	- 3	S	7	ogty	#	ogty	48	40	0.24	
	Oxford ...	29.08	46	SW	5	r	28.92	- .57	41	40	- 3	S	5	ogty	#	ogty	48	40	0.22	
	Cambridge ...	29.12	46	SSE	8	0	29.05	- .52	42	40	- 2	ESE	2	r	#	0	48	39	0.06	
PENIN- SULA.	Yarmouth ...	29.25	44	S	6	ty	29.12	- .53	42	40	0	SSW	4	og	4	ogty	44	38	0.02	
	Cuxhaven ...	29.75	37	SSE	3	c	29.32	- .64	43	43	+ 12	S	6	6c	#	c	?	31	-	
	Berlin ...	29.86	33	SSE	2	6c	29.62	- .48	35	34	+ 4	SSE	1	c	#	6c	37	30	-	
	Wiesbaden ...	#	#	#	#	#	29.66	- .46	33	32	+ 3	E	2	0	#	#	34	28	0.04	
	Munich ...	29.89	26	SE	4	f	29.75	- .39	27	27	+ 5	W	1	b	#	f	28	21	-	
	The Helder ...	29.42	40	S	6	b	29.24	- .60	43	41	+ 11	SW	7	c	4	b	45	32	0.04	
	Brussels (G. a.m.)	#	#	#	#	#	29.40	- .49	41	39	+ 6	SSW	7	0	0	0	48	34	0.04	
	Cape Gris Nez	29.33	?	S	7	r	29.25	- .46	44	42	+ 6	SW	7	r	7	r	46	38	0.20	
	Paris ...	29.57	48	S	5	6c	29.53	- .40	43	41	+ 13	S	4	0	#	6c	49	30	0.04	
	Brest ...	?	48	NW	6	0	?	?	53	53	+ 1	SW	7	0	6	0	57	43	1.14	

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, 20<sup>th</sup> Dec: 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.

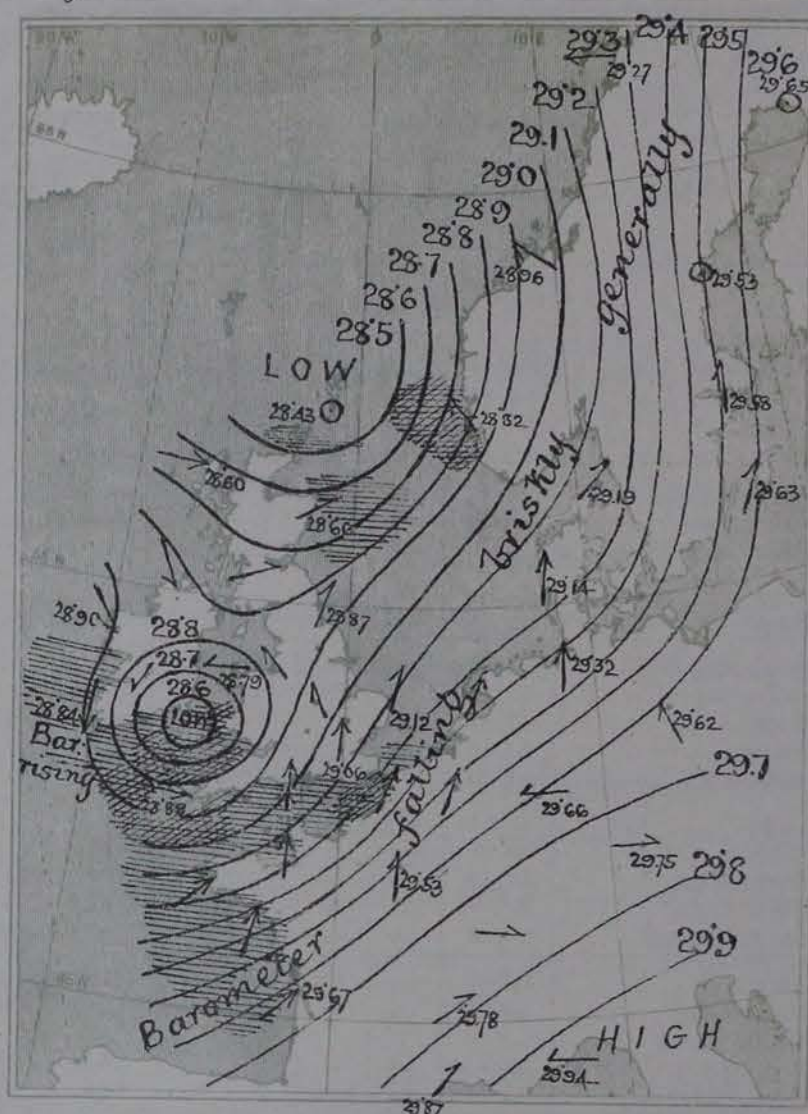
### MEAN HEIGHT OF THE BAROMETER

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

#### STATIONS.

#### MEAN READINGS.

STATIONS.	MEAN READINGS.
Samling Head	29.673
Sternway	29.705
Wick	29.718
Nairn	29.743
Aberdeen	29.707
Leith	29.807
Shields	29.845
Spurn Head	29.873
York	29.880
Loughborough	29.924
Ardrossan	29.820
Mullaghmore	29.821
Donaghadee	29.848
Holyhead	29.879
Liverpool	29.885
Parsonstown	29.901
Valencia	29.905
Roche's Point	29.912
Pembroke	29.916
Selly	29.951
Prawle Point	29.970
Jersey	29.985
Hurst Castle	29.958
Dover	29.953
LONDON	29.954
Oxford	29.955
Cambridge	29.941
Yarmouth	29.910



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

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

(For the month of December.)

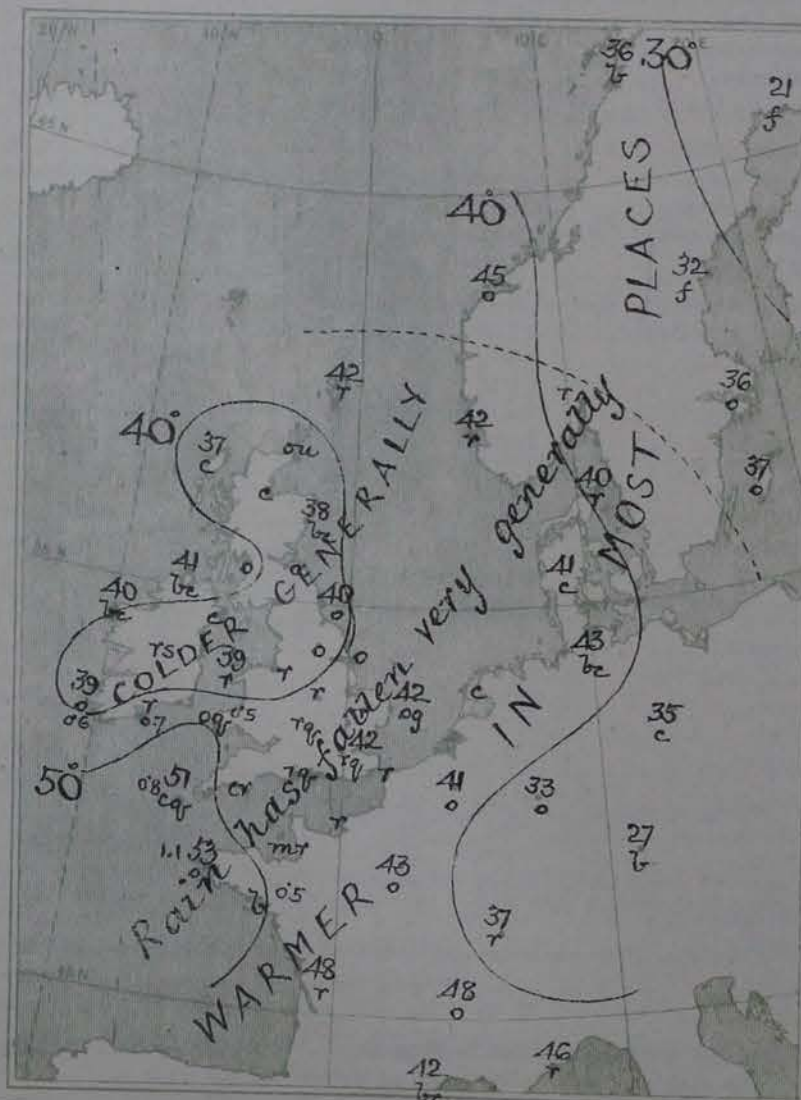
#### STATIONS.

#### TEMPERATURE

#### RAINFALL

STATIONS.	TEMPERATURE				RAINFALL (inches)
	Daily Max.	Daily Min.	Dry Wet	Wet	
Samling Head	42.6	35.2	39.0	38.1	4.25
Sternway	43.1	34.2	39.4	38.3	5.63
Wick	42.2	32.7	38.1	36.8	3.10
Nairn	41.9	32.8	37.1	35.6	1.95
Aberdeen	41.0	32.0	36.9	35.2	3.24
Leith	44.0	33.7	38.5	37.0	1.86
Shields	42.9	33.0	38.3	36.9	2.57
Spurn Head	42.4	35.3	38.8	37.7	2.14
York	42.3	32.3	36.4	35.4	2.24
Loughborough	42.7	32.2	36.3	35.4	2.24
Ardrossan	41.5	35.9	40.0	38.7	3.73
Mullaghmore	40.5	37.8	42.2	39.8	4.51
Donaghadee	45.8	36.2	40.2	39.3	2.84
Holyhead	40.4	39.1	42.8	41.1	2.82
Liverpool	43.5	36.0	38.8	37.1	2.59
Parsonstown	44.7	33.1	37.8	36.6	3.04
Valencia	49.7	40.0	44.0	42.4	5.09
Roche's Point	47.9	38.9	42.0	41.5	4.05
Pembroke	46.8	40.3	43.6	42.2	3.99
Selly	49.5	43.4	47.0	45.1	4.02
Prawle Point	47.0	38.2	42.5	41.1	3.76
Jersey	47.3	39.3	43.1	41.4	3.82
Hurst Castle	45.0	36.5	40.6	39.8	2.78
Dover	44.8	35.9	39.8	38.0	3.00
LONDON	44.0	33.0	37.8	36.7	2.10
Oxford	42.9	38.5	37.0	35.9	2.10
Cambridge	42.8	31.0	36.2	35.5	1.88
Yarmouth	41.0	33.7	37.9	37.0	2.06

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, 30.15 in. at Lisbon; 29.94 in. at Nice; 29.6 in. and upwards over the Baltic.  
 Lowest, 28.5 in. and less, in a depression off the north of Scotland; 28.6 in. and less, in another system over the St. George's Channel.  
 Gradients slight over the northern parts of Ireland and England, but steep in nearly all other parts of Northwestern Europe.  
 Barometer falling generally, but rising again at Valencia (Ireland).

## TEMPERATURE

Highest, 55° at Lisbon, 53° at Rheims, 51° at Dublin, and 50° at Penzance, and 49° at Jersey.  
 Lowest, (1) 21° at Havana, 27° at Munich, 32° at Amsterdam, and 33° at Wiesbaden; (2) 34° at Paris, and 36° at Donaghadee.  
 During yesterday the thermometer rose to between 45° and 50° in nearly all parts of the United Kingdom.

## WIND

W over the northern parts of our islands; light or moderate in force generally, but strong to a gale at Wick.  
 Strong from the N. in the south of Ireland, but blowing a gale from the S. or S.W. in the south and southeast of England.  
 Strong to a gale from the S. or S.E. on the eastern shores of the North Sea.

## WEATHER

Fine at some of our northern and northwestern stations as well as in Germany.  
 B. elsewhere, with rain in many places, and with sleet at Paris.  
 Rain fell yesterday over the whole of the United Kingdom, as well as at many of the French and German stations, the largest amounts being 1.1 in. at Rheims, 0.8 in. at Dublin, 0.7 in. at London, and 0.6 in. at Valencia (Ireland).

## SEA

High or rough on all but our east and northeast coasts.

## PROBABLE CHANGES IN SYSTEM NOW PREVALENT

The depression over the St. George's Channel will probably travel northeastwards across England and occasion strong gales from the S. and S.W. on all our south and east coasts.

# FORECASTS

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

DISTRICTS.		FORECASTS.	
0	SCOTLAND NORTH	{	W <sup>ly</sup> and SW <sup>ly</sup> winds, varying in force; changeable, some cold showers.
1	SCOTLAND EAST		
2	ENGLAND N.E.	{	S <sup>ly</sup> to SW <sup>ly</sup> gales and strong winds; squally, rainy.
3	ENGLAND EAST		
4	MIDLAND COUNTIES	{	S <sup>ly</sup> to SW <sup>ly</sup> or W <sup>ly</sup> strong gales, moderating later; squally and rainy to fair. Becoming colder.
5	ENGLAND SOUTH		

DISTRICTS.		FORECASTS.	
6	SCOTLAND WEST	Same as Nos 0 and 1.	
7	ENGLAND N.W.	Variable breezes, finally NW <sup>ly</sup> ; rainy to fair.	
8	ENGLAND S.W.	W <sup>ly</sup> to NW <sup>ly</sup> strong winds and gales; squally, showery.	
9	IRELAND NORTH	{	NW <sup>ly</sup> winds, strong; squally, showery.
10	IRELAND SOUTH		
WARNINGS		The SOUTH CONE is still flying in districts 2, 3 and 5.	

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 ...	29.52	43	41	SSE	8	0	6	Valencia ...	29.19	47	45	W	8	cgyr	6
Sumburgh Head ...	29.03	44	43	SSE	3	1	5	Scilly ...	29.15	50	47	W	8	cgy	6
Stornoway ...	28.97	43	42	SE	6	0	6	Jersey ...	29.32	49	47	S	7	ogm	6
Aberdeen ...	28.96	44	42	SSE	8	cgyr	7	Hurst Castle ...	29.20	48	47	SSW	8	ot	6
Shields ...	29.04	47	45	SSE	6	0	4	Dungeness ...	29.41	46	44	SSW	7	c	6
Ardrossan ...	28.81	47	45	E	4	1	3	North Foreland ...	29.43	44	42	S	7	cgy	5
Malin Head ...	28.72	43	43	SSW	5	0	2	London (Westminster)	29.30	48	45	SSE	9	ogr	*
Mullaghmore ...								Yarmouth ...	29.41	43	42	S	7	oggy	5
Belmullet ...	28.88	44	42	W	9	ogp	3	Rochefort ...		50	49	S	4	m	*
Holyhead ...	28.86	48	47	SSW	2	bc	3								

## 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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# DAILY WEATHER REPORT

for 8 a.m. on Thursday, 21<sup>st</sup> December, 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.		Max.	Min.	
		Inch.	°				Inch.	°	°	°						°	Inch.				
SCANDINAVIA.	Haparanda ...	29.54	30	S	2	0	29.54	-0.9	30	30	+ 9	SW	2	0	#	0	30	19	-		
	Hernösand ...	29.36	35	S	2	0	29.35	-1.8	35	34	+ 3	S	4	f	#	0	36	19	0.08		
	Stockholm ...	29.36	37	Z	0	0	29.33	-2.5	39	38	+ 3	SSE	2	f	#	0	?	32	0.04		
	Wisby ...	29.43	39	S	4	0	29.36	-2.7	42	41	+ 5	SSE	4	0	#	0	47	32	0.08		
	Bodö ...	29.14	39	ENE	5	bc	29.19	-0.8	37	33	+ 1	ENE	6	b	3	bc	39	32	-		
	Christiansund...	28.79	44	SE	4	0	28.90	-0.6	44	39	- 1	E	2	bc	3	c	45	43	-		
	Skudesnaes ...	28.91	42	SSE	8	0	28.71	-1.1	43	41	+ 1	SSE	6	0	5	r, o	45	39	-		
	Christiania Fjord (Færd)	29.12	42	S	6	0	28.95	-2.8	42	42	+ 5	SSE	6	r	5	0	43	37	-		
	Skagen (The Scaw)	29.12	41	SSW	3	0	28.96	-2.3	42	41	+ 2	SSW	3	0	1	0	43	39	0.16		
	Fanö ...	28.95	41	S	6	r	28.89	-2.5	41	40	0	SSW	2	0	#	r	43	39	0.20		
ISLANDS	Sumburgh Head	28.60	41	WNW	3	0	28.71	+2.8	38	36	- 4	S	1	0	4	0	43	35	0.20		
	Stornoway ...	28.70	35	NW	3	S	28.72	+1.2	39	39	+ 2	NW	5	r	4	b, s	39	32	0.21		
	Wick ...	28.66	35	SW	2	b	28.73	+2.2	35	34	- 2	SW	2	c	2	b	38	32	-		
	Nairn ...	28.76	34	Z	0	b	28.80	+1.7	37	36	- 1	W	3	r	1	b	40	32	0.03		
	Aberdeen ...	28.80	33	S	1	b	28.89	+2.3	33	31	- 5	SSW	1	om	3	bc, b	39	29	-		
	Leith ...	28.83	37	WSW	2	b	28.99	+2.4	37	35	- 1	SSW	3	b	#	b	40	32	-		
	Shields ...	28.83	38	WNW	2	cm	29.06	+1.9	38	36	- 2	WSW	4	c	2	cm	40	32	-		
	Spurn Head ...	28.70	38	WNW	6	r	29.22	+2.5	38	35	- 2	WSW	5	bv	4	r	43	36	0.56		
	York ...	28.80	37	N	1	0	29.23	+3.0	39	36	- 1	WNW	2	b	#	0	42	33	0.47		
	Loughborough	28.82	34	WNW	5	r	29.35	+3.7	36	34	- 4	W	4	b	#	rep	47	32	0.55		
BRITISH	Ardrossan ...	28.87	40	W	2	op	29.05	+2.7	41	40	- 1	W	5	c	4	o, q, p, hrs	42	36	0.04		
	Malin Head ...	28.89	41	WNW	6	chp	29.08	+2.7	41	39	0	NW	7	o, q, h, p	4	bc, chp	43	38	0.03		
	Mullaghmore ...																				
	Belmullet ...	29.13	39	NW	6	c	29.37	+4.7	44	39	+ 4	NW	7	bc	#	bc, c	44	37	0.11		
	Donaghadee ...	28.98	37	NW	4	bc	29.21	+3.8	36	35	0	W	5	b	3	bc	42	33	0.02		
	Liverpool (Bidston)	28.93	41	NW	4	0	29.30	+4.5	40	37	+ 1	W	7	bc	5	0	42	34	0.40		
	Holyhead ...	28.98	43	NW	5	0	29.30	+5.1	39	38	0	WS	5	c	6	0	44	38	0.21		
	Parsonstown ...	29.13	38	NW	2	bc	29.45	+6.6	36	34	+ 2	NW	2	b	#	0, bc	40	33	-		
	Valencia ...	29.29	44	NW	5	g, h, r, p, q	29.61	+7.7	43	42	+ 4	W	7	o, h, q	6	q, h, p, r	47	37	0.32		
	Roche's Point	29.19	42	WNW	5	c	29.57	+9.3	39	38	- 4	WNW	4	bc, p	4	ep	44	36	0.15		
GERMANY & HOLLAND	Pembroke (St. Ann's Hd.)	29.06	43	NW	6	bc	29.49	+8.9	44	42	- 6	WNW	6	c, q	6	0, bc	50	39	0.22		
	Scilly ...	29.16	46	WNW	6	c	29.63	+7.5	44	40	- 7	WNW	6	c, q	6	rm, c, q, s	51	39	0.19		
	Prawle Point ...	29.11	39	WNW	6	r	29.59	+7.4	39	37	- 4	WNW	4	c	3	q, p	49	37	0.20		
	Jersey (St. Aubin's)	29.05	46	W	10	c, q, r	29.62	+5.2	45	40	- 4	NW	3	bc, m	3	c, q, r, h	52	40	0.45		
	Hurst Castle ...	28.82	40	WSW	8	c, q, p	29.53	+5.3	41	40	- 5	W	5	b	6	c, q, p	50	38	0.29		
	Dungeness ...	28.67	47	WSW	9	r, q	29.45	+2.7	41	39	- 3	WNW	5	c	4	o, r, q	50	39	0.11		
	North Foreland	28.69	46	S	7	r, q	29.44	+2.8	38	36	- 8	SSW	3	bc	3	r, q	49	37	0.38		
	London ...	28.64	44	SW	5	o, r	29.48	+4.2	35	34	- 7	NW	2	b	#	q, r, b	50	35	0.39		
	Oxford ...	28.98	37	WNW	4	0	29.44	+5.2	36	34	- 5	WSW	3	b	#	c, p, s	50	34	0.18		
	Cambridge ...	28.68	43	WNW	8	r	29.41	+3.6	36	34	- 6	SSW	4	b	#	r	50	33	0.25		
FRANCE AND BELGIUM.	Yarmouth ...	28.72	45	SSW	4	c	29.33	+2.1	35	34	- 7	SW	4	b	4	c, q	47	34	0.41		
	Cuxhaven ...	29.22	42	S	5	r	29.08	-2.4	43	43	0	W	7	bc	#	r	46	41	0.08		
	Berlin ...	29.44	37	S	3	0	29.39	-2.3	44	41	+ 9	SW	5	b	#	0	45	35	0.08		
	Wiesbaden ...						29.56	-1.0	41	38	+ 8	SW	4	0	#	#	46	33	0.32		
	Munich ...	29.54	29	SE	2	#	29.69	-0.6	36	35	+ 9	SW	3	r	#	#	39	27	0.04		
	The Helder ...	28.88	42	S	5	bc	29.31	+5.7	42	41	- 1	WSW	6	c	4	bc	45	41	0.20		
	Brussels (9 a.m.)	*	#	#	#	#	29.50	+1.0	37	35	- 4	SW	5	bc	#	r	47	36	0.43		
	Cape Gris Nez	28.78	47	SW	8	0	29.43	+1.8	43	40	- 1	WNW	6	c	6	0	47	36	0.24		
	Paris ...	29.17	47	SW	5	b	29.58	+0.5	38	37	- 5	SSW	2	0	#	0	49	37	0.35		
	Brest ...	?	46	NW	1	0	?	?	44	41	- 9	N	5	c	5	0	55	39	0.71		
PENIN- SULA.	Lorient ...	29.20	44	W	8	r	29.71	+4.3	44	41	- 7	NW	4	bc	5	r	54	41	0.55		
	Rocheport ...	29.36	46	W	7	c	29.70	+0.3	43	40	- 5	N	5	b	#	0	52	36	0.75		
	Belfort ...	?	50	SW	6	0	?	?	42	42	+ 5	SW	5	r	#	0	53	37	0.28		
	Lyons ...	29.61	49	S	6	0	29.69	-0.9	43	40	- 5	S	2	0	#	0	55	42	0.04		
	Nice ...	29.89	48	SW	1	0	29.73	-2.1	44	44	- 2	Z	0	0	3	0	52	43	0.83		
	Perpignan ...	29.82	48	W	1	0	29.78	-0.9	44	43	+ 2	Z	0	0	#	0	57	42	-		
	Biarritz ...	29.76	52	W	7	r	29.81	-0.9	47	46	- 7	W	9	r	8	r	57	41	0.63		
	Corunna ...																				
	Lisbon ...	30.18	57	WNW	3	0	30.30	+1.5	54	51	- 1	WNW	3	bc	#	0	61	54	-		

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, 21<sup>st</sup> Dec: 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 heads and feathers refer to force thus—

→ forces above 10 → forces 8 to 10 →

→ forces 5 to 7 → forces 1 to 4

☉ = dead calm

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

☼ = Rough. ☼ = High

## MEAN HEIGHT OF THE BAROMETER

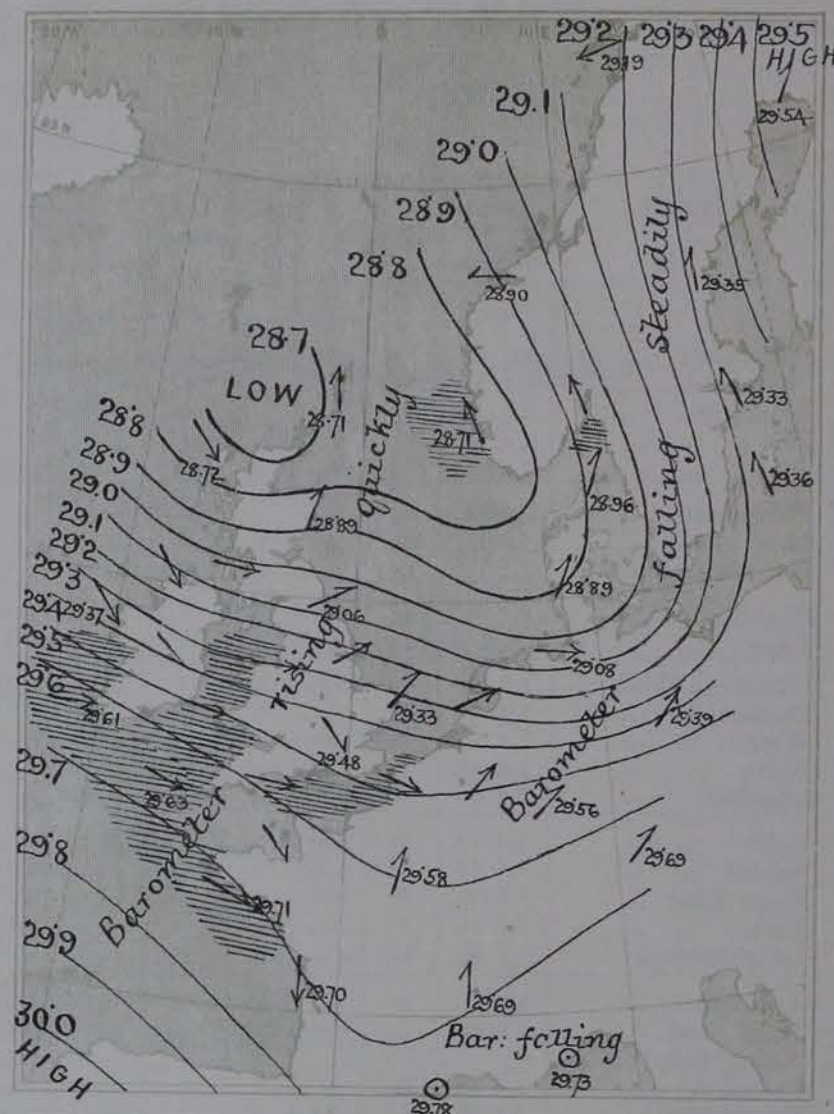
at 8.0 a.m. for the month of December.

During the 20 Years 1871-1890.

### STATIONS.

### MEAN READINGS.

STATIONS.	MEAN READINGS.
Sumburgh Head	29.073
Stornoway	29.705
Wick	29.718
Nairn	29.713
Aberdeen	29.787
Leith	29.807
Shields	29.845
Spurn Head	29.873
York	29.891
Loughborough	29.924
Ardrossan	29.834
Mullaghmore	29.821
Donaghadee	29.848
Holyhead	29.879
Liverpool	29.893
Parsonstown	29.901
Valencia	29.903
Roche's Point	29.912
Pembroke	29.916
Silly	29.951
Pravle Point	29.970
Jersey	29.983
Hurst Castle	29.958
Dover	29.973
LONDON	29.954
Oxford	29.953
Cambridge	29.941
Yarmouth	29.916



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

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

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

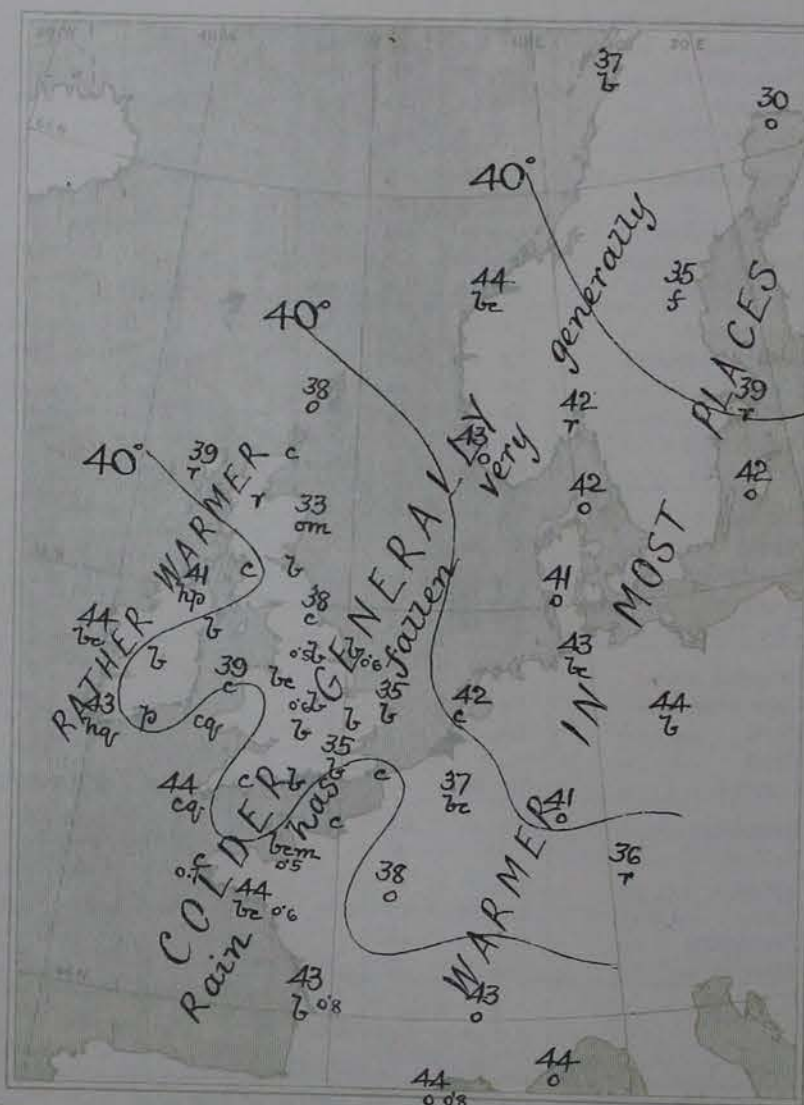
**RAINFALL**—A dotted line separates the districts in which rain has fallen from those where there has been none. Falls of 0.1 in. or more are quoted in figures.

### MEANS OF TEMPERATURE IN SHADE AND RAINFALL

(For the month of December.)

STATIONS.	TEMPERATURE				RAINFALL (Inches)
	Today Max	Today Min	Day	Night	
Sumburgh Head	42.4	35.2	38.0	38.1	4.25
Stornoway	43.1	34.2	39.1	38.9	5.07
Wick	42.2	33.7	38.1	38.8	3.10
Nairn	41.9	32.8	37.1	38.4	1.95
Aberdeen	41.9	32.8	38.0	38.2	3.21
Leith	44.0	33.7	38.0	37.0	1.86
Shields	42.0	33.0	38.2	36.0	2.87
Spurn Head	42.4	35.3	39.8	37.5	2.14
York	42.8	32.5	38.4	35.1	2.25
Loughborough	42.5	32.2	39.3	35.4	2.24
Ardrossan	41.5	35.9	40.0	38.7	3.73
Mullaghmore	40.5	37.8	42.2	39.8	4.51
Donaghadee	45.8	36.2	40.2	39.3	2.84
Holyhead	46.4	39.1	42.8	41.1	3.82
Liverpool	43.5	35.6	38.8	37.9	2.50
Parsonstown	44.7	33.1	37.8	36.0	3.04
Valencia	49.7	40.0	41.0	42.1	5.09
Roche's Point	47.9	38.0	42.9	41.5	4.95
Pembroke	46.8	40.3	43.6	42.2	3.63
Silly	49.5	43.1	47.0	45.1	4.62
Pravle Point	47.0	38.2	42.5	41.1	3.76
Jersey	47.3	39.3	43.1	41.4	3.82
Hurst Castle	45.8	36.3	40.0	39.8	3.79
Dover	44.3	35.9	39.8	38.6	3.09
LONDON	44.0	35.9	37.8	36.7	2.10
Oxford	42.9	33.5	37.0	35.9	2.10
Cambridge	42.8	31.0	36.2	35.3	1.88
Yarmouth	41.9	33.7	37.9	37.0	2.00

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, 30.30 in. at Lisbon; 29.5 in. and upwards in the north of Sweden.

Lowest, 28.7 in. and less, in a depression lying off the north of Scotland.

Gradients rather steep over our Islands, the Netherlands, and North Germany, but slight elsewhere.

Barometer rising at all but the Scandinavian, Danish, and southern French stations.

## TEMPERATURE

Highest, 54° at Lisbon, 45° at Jersey and 44° at Pembroke, Tilly, Brest, Lorient, Perpignan and Nice.

Lowest, (1) 30° at Haparanda and 35° at Heringsand; (2) 33° at Aberdeen and 35° at Wick, London and Yarmouth; (3) 36° at Munich and 38° at Paris.

Frost occurred last night over the northern and central parts of our Islands.

## WIND

Strong from the W<sup>2</sup> or NW<sup>2</sup> on our western coasts; moderate from the SW<sup>2</sup> in the eastern parts of the United Kingdom.

Light from the S<sup>2</sup> over Central France; fresh or strong from the SW<sup>2</sup> over Germany and the Netherlands; SE<sup>2</sup> at the Scandinavian stations.

A strong gale from the SW<sup>2</sup> was experienced yesterday in the south of England, and a violent gale from NW<sup>2</sup> over the western parts of the Channel.

## WEATHER

Fine over the greater part of England, but rainy in the north of Scotland, and showery with hail, in the west and north of Ireland.

Fine in the west of France, but cloudy in most other parts of the Continent, with rain in the south of Scandinavia and also at Munich.

Rain fell yesterday in most parts of Western Europe, the largest amounts being 0.8 in. at Rochefort and Nice, 0.7 in. at Brest, and 0.6 in. at Spennithorne and Lorient. Some hail was seen at some of the English stations, and thunder occurred at Androssau.

## SEA

Rough on many parts of our west and southwest coasts, and rather rough in the Bay of Biscay and off the south of Norway.

## PROBABLE CHANGES IN SYSTEM NOW PREVALENT

The general appearance is still rather unsettled, and from the slackening of the barometric rise at Stornoway it seems very probable that further depressions will shortly approach our north or northwest coasts.

## FORECASTS

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

### DISTRICTS.

### FORECASTS.

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

SW<sup>2</sup> to W<sup>2</sup> winds, freshening;  
unsettled, some snow.

Same as No 5

W<sup>2</sup> winds, moderate or fresh; fair generally, but local showers.

### DISTRICTS.

### FORECASTS.

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

W<sup>2</sup> and NW<sup>2</sup> winds, strong;  
squally, some showers.

### WARNINGS

None issued.

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



# YESTERDAY'S 2 P.M. REPORTS.

	BAR.	THER.		WIND.	F.	WEA.	SEA.		BAR.	THER.		WIND.	F.	WEA.	SEA.
		Dry.	Wet.	Dir.						Dry.	Wet.	Dir.			
Skudesnaes ...	28.82	44	42	SW	8	r	7	Valencia ...	29.10	46	44	W	5	c q	5
Sumburgh Head	28.48	41	40	WNW	1	o	4	Scilly ...	28.99	46	44	WN	10	c q	8
Stornoway ...	28.66	38	38	W	3	6	3	Jersey ...	28.96	52	48	WSW	9	c m q	7
Aberdeen ...	28.76	38	34	SSW	2	bc	4	Hurst Castle ...	28.66	48	47	SW	9	pg	6
Shields ...	28.81	40	38	SSW	1	m	2	Dungeness ...	28.80	50	47	WSW	7	u q r	7
Ardrossan ...	28.81	41	40	N	2	o	2	North Foreland ...	28.81	49	47	S	5	r	4
Malin Head ...	28.85	41	39	WNW	5	bc	3	London (Westminster)	28.72	49	45	SSW	6	c q	*
Mullaghmore ...								Yarmouth ...	28.74	47	46	S	6	c q	*
Belmullet ...	29.01	40	39	NW	2	bc	*	Rochefort ...							*
Holyhead ...	28.45	42	41	NNE	5	o	4								

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

*Continental Information not received.*

*General Remarks on the Weather over Europe for 24 hours ended at 8am on Dec<sup>r</sup> 20<sup>th</sup> 1893.*

*Weather* cloudy or overcast in our Islands with rain at most of the western stations. Reports from eastern and southern Europe nearly all wanting; weather fine in Sweden, France, and many parts of Germany, but dull in Norway, with rain at Skudesnaes. Rain falling later in nearly all the western countries, amounts being heavy in the southwest of our Islands and the west of France. Snow falling at some of the Russian stations.

*Temperature* fallen in Scotland and also in Sweden, Germany, and the central and southern parts of France, but risen elsewhere. Morning readings highest (1) 55° at Longjumeau, 54° at Oron and Algiers; (2) 52° at Brest, ~~and~~ 51° at Biarritz and 50° at Lorient; above 45° in the southwestern parts of the United Kingdom generally. Lowest 5° at Haparanda, 21° at Moscow, 22° at Munich, and 24° at Lyons; below the freezing point in many parts of Russia and Central Europe, and below 40° in the east of Scotland. Rising during day to 50° or a little above it on the south coasts of Ireland and England; to 55° or more at several of the western and southern stations in France and to 60° or more over the southern part of Spain and Italy.

*Wind* S or SE over nearly the whole of Western Europe with Scandinavia and the Baltic; strong in force in many parts of England and Ireland, with a gale on our west and southwest coasts. Moderate from the E over the southern parts of France and Germany; variable in Algeria. Subsequently increasing to a fresh or strong gale from the S over the whole of Great Britain, and from the W in Ireland. NE breezes reported over Italy in evening, with a gale at Turin, and light NW breezes in the south of Russia.

*Barometer* highest 30.2 ins. and upwards over Western Russia, and apparently over Austria and Italy. Lowest 28.8 ins. and less, in a depression lying off the northwest of Ireland; gradient steep over the greater part of our Islands and the North Sea, depression subsequently moving northwards to the west of Scotland, but at the same time spreading out considerably to the eastward; brisk rise of the barometer taking place on our west and southwest coasts, but rapid fall in the north and east.

### 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 Friday, December 22<sup>nd</sup>, 1893

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

PUBLISHED BY THE METEOROLOGICAL OFFICE, 65, VICTORIA STREET, LONDON. H. F. 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.	Direc.	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.	Direc.	Force (0 to 12).	Weather.	Sea (0 to 9).	Weather.	Max.	Min.	Amount of Rainfall.				
Inch.	°				Inch.														Inch.			
SCANDINAVIA.																						
Haparanda ...	29.58	26	SW	2	0	29.43	-11	32	32	+2	SSW	2	S	#	a	32	25	0.16				
Hernösand ...	29.27	36	SSE	6	r	29.35	-00	36	35	+1	SSE	6	0	#	7	37	32	0.28				
Stockholm ...	29.47	41	WSW	4	0	29.69	+36	36	34	-3	S	2	b	#	0	41	30	0.04				
Wisby ...	29.57	41	SSW	6	b	29.82	+26	39	37	-3	SW	6	c	#	b	43	36	-				
Bodo ...	29.17	40	E	6	c	29.16	-03	37	32	-5	E	6	bc	3	c	43	34	-				
Christiansund...	28.99	44	SSW	2	c	29.23	+33	40	37	-3	SW	3	b	4	c	45	39	-				
Skudesnaes ...	29.07	42	SSE	6	0	29.26	+55	44	42	+2	WSW	2	c	4	c, or	46	39	-				
Christiania Fjord (Fierder)	29.17	42	SSW	8	bc	29.35	+40	42	41	-1	SSW	8	r	6	bc, r	45	39	-				
Skagen (The Seaw)	29.33	38	WSW	4	r	29.44	+48	40	39	-1	SW	4	c	1	r	43	37	0.20				
Fano ...	29.47	41	WSW	6	b	29.60	+71	43	42	+1	WSW	6	r	#	b	43	39	0.16				
BRITISH ISLANDS.																						
Sumburgh Head	28.77	40	E	1	c	29.14	+43	42	40	+2	S	2	0	4	bc	42	34	0.05				
Stornoway ...	28.95	43	NW	6	bcsp	28.91	+19	45	45	+6	SW	8	r	6	r, bc, sp	45	37	0.31				
Wick ...	28.84	38	NW	2	c	29.04	+31	41	40	+1	S	7	OTU	6	c	41	35	0.30				
Nairn ...	28.99	42	W	3	c	29.11	+31	43	40	+3	WSW	1	c	1	c	43	35	0.16				
Aberdeen ...	29.00	42	WSW	5	b	29.28	+39	39	38	+1	S	4	og, r	4	bc, b	43	33	0.11				
Leith ...	29.14	41	WSW	4	bc	29.27	+28	45	42	+3	SW	4	0	#	bc	46	34	-				
Shields ...	29.28	43	WSW	4	bc	29.48	+42	43	41	+2	S	4	0	2	c, bc, p	43	35	-				
Spurn Head ...	29.41	40	WSW	5	0	29.65	+43	38	36	-2	SSW	4	c	3	0	41	36	-				
York ...	29.38	42	W	3	c	29.60	+37	40	38	+2	SSW	3	0	#	c	44	38	0.01				
Loughborough	29.57	39	WSW	4	0	29.73	+38	38	36	+2	SSW	4	omr	#	0	44	35	-				
Ardrossan ...	29.26	46	W	7	b	29.29	+24	47	46	+1	S	5	0	5	c, p, b	47	40	0.04				
Malin Head ...	29.36	43	W	7	ogp	29.13	+05	47	47	+0	S	5	or	3	ogp	47	41	0.08				
Mullaghmore ...																						
Belmullet ...	29.60	45	W	7	bc	29.29	-08	48	47	+1	WNW	6	0	#	bc	50	37	0.15				
Donaghadee ...	29.45	41	W	6	bc	29.36	+15	44	44	+0	SSW	5	0	3	bc	45	36	0.04				
BRITISH ISLANDS.																						
Liverpool (Bidston)	29.52	42	W	6	c	29.55	+25	45	43	+2	S	3	0	4	c	46	38	0.03				
Holyhead ...	29.48	43	WNW	4	b	29.47	+17	49	49	+0	SSW	6	r	5	bc, b	49	39	0.12				
Parsonstown ...	29.65	38	SW	2	b	29.43	-02	50	49	+1	SW	1	om	#	b, or	51	35	0.15				
Valencia ...	29.79	45	W	4	bc	29.52	-09	53	53	+0	SW	6	rg	6	bcq	53	40	0.13				
Roche's Point	29.75	42	WNW	4	b	29.58	+01	52	52	+0	WSW	5	r	5	r, sp, b	52	39	0.15				
Pembroke (St. Ann's Hd.)	29.71	45	WNW	5	bc	29.63	+14	50	50	+0	SW	6	om	6	bc	50	43	0.13				
Scilly ...	29.82	47	W	5	cp	29.80	+17	52	51	+1	SW	5	or	5	c, p	51	40	0.08				
Prawle Point ...	29.80	40	W	3	b	29.84	+25	47	47	+0	SW	6	r	5	b, r	48	37	0.03				
Jersey (St. Aubin's)	29.78	43	WNW	4	b	29.99	+37	48	46	+2	S	3	ogp	3	bc, p, r	49	40	0.22				
Hurst Castle ...	29.73	42	W	5	b	29.86	+33	48	47	+1	SW	6	omr	4	bc, b	48	40	0.02				
Dungeness ...	29.68	42	W	4	bc	29.90	+45	46	43	+3	W	5	rg	3	bc	47	39	-				
North Foreland	29.67	39	WSW	3	b	29.90	+46	39	37	+2	S	3	b	3	b	43	34	-				
London ...	29.67	38	W	3	b	29.86	+38	40	38	+2	S	2	bc	#	bc, b	43	34	-				
Oxford ...	29.71	38	WSW	3	b	29.81	+37	38	37	+1	S	3	r	#	b	43	35	0.01				
Cambridge ...	29.62	37	SSW	5	b	29.83	+42	35	34	+1	SSE	3	bc	#	bc	44	32	-				
Yarmouth ...	29.54	38	WSW	4	b	29.79	+46	36	35	+1	SW	4	b	4	b	40	33	-				
GERMANY & HOLLAND.																						
Cuxhaven ...	29.52	37	SW	3	bc	29.81	+73	37	37	+0	SW	6	bc	#	bc	43	36	-				
Berlin ...	29.78	35	2	0	b	30.01	+62	31	30	-13	SW	2	b	#	b	45	31	-				
Wiesbaden ...	*	*	*	*	*	30.12	+56	33	32	-1	SW	1	0	#	*	43	32	0.16				
Munich ...	29.81	33	SE	2	r	30.12	+43	33	33	+0	NW	4	0	#	r	37	33	0.16				
The Helder ...	29.63	43	SW	6	bc	29.88	+57	42	40	+2	SW	5	b	3	bc	43	41	-				
FRANCE AND BELGIUM.																						
Brussels (a.m.)	*	*	*	*	*	30.05	+55	34	32	-2	SSW	4	b	#	b	42	33	0.04				
Cape Gris Nez	29.66	44	W	5	bc	29.87	+44	45	42	+3	WSW	5	c	5	bc	46	37	-				
Paris ...	29.84	39	WSW	2	b	30.11	+53	29	29	+0	S	2	b	#	b	45	29	-				
Brest ...	?	46	NW	5	c	?	?	49	49	+0	SW	5	m	5	c	37	41	-				
Lorient ...	29.85	46	WNW	5	bc	30.06	+35	48	47	+1	SSW	5	r	5	bc	50	41	-				
FRANCE AND BELGIUM.																						
Rochefort ...	29.95	42	WNW	4	bc	30.14	+44	40	39	-1	S	3	c	#	bc	50	37	0.20				
Belfort ...	?	40	W	3	c	?	?	29	28	-13	W	3	bc	#	c	45	28	0.04				
Lyons ...	29.90	39	NW	3	bc	30.14	+45	34	34	+0	NW	1	b	#	bc	51	32	-				
Nice ...	29.88	43	E	3	0	29.77	+04	41	37	-4	E	1	b	#	0	48	39	-				
Perpignan ...	29.93	45	NW	3	0	30.08	+30	43	39	-4	NW	4	b	#	0	52	41	-				
Biarritz ...																						
PENIN- SULA.																						
Corunna ...	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*				
Lisbon ...	30.88	52	NW	3	b	30.40	+10	51	49	-2	NW	3	b	#	*	59	50	-				

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, 22<sup>nd</sup> Dec., 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

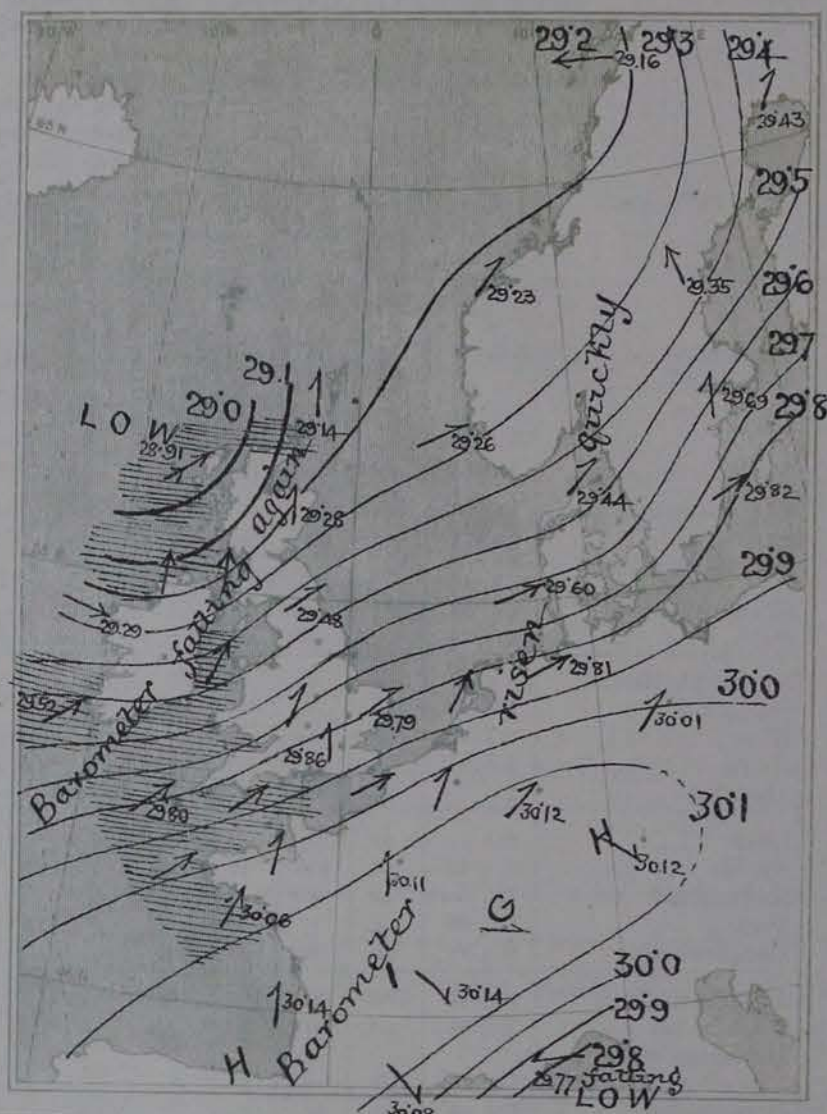
at 8 a.m. for the month of December.

During the 20 Years 1871-1890.

#### STATIONS.

#### MEAN READINGS.

STATIONS.	MEAN READINGS.
Sumburgh Head	29.673
Stornoway	29.705
Wick	29.718
Nairn	29.743
Aberdeen	29.767
Leith	29.807
Shields	29.845
Spurn Head	29.873
York	29.899
Loughborough	29.924
Ardrossan	29.926
Mullaghmore	29.921
Donaghadee	29.848
Holyhead	29.879
Liverpool	29.895
Parsonstown	29.901
Valencia	29.905
Roche's Point	29.912
Pembroke	29.916
Sally	29.951
Prawle Point	29.970
Jersey	29.985
Hurst Castle	29.958
Dover	29.953
LONDON	29.954
Oxford	29.955
Cambridge	29.941
Yarmouth	29.916



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

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

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

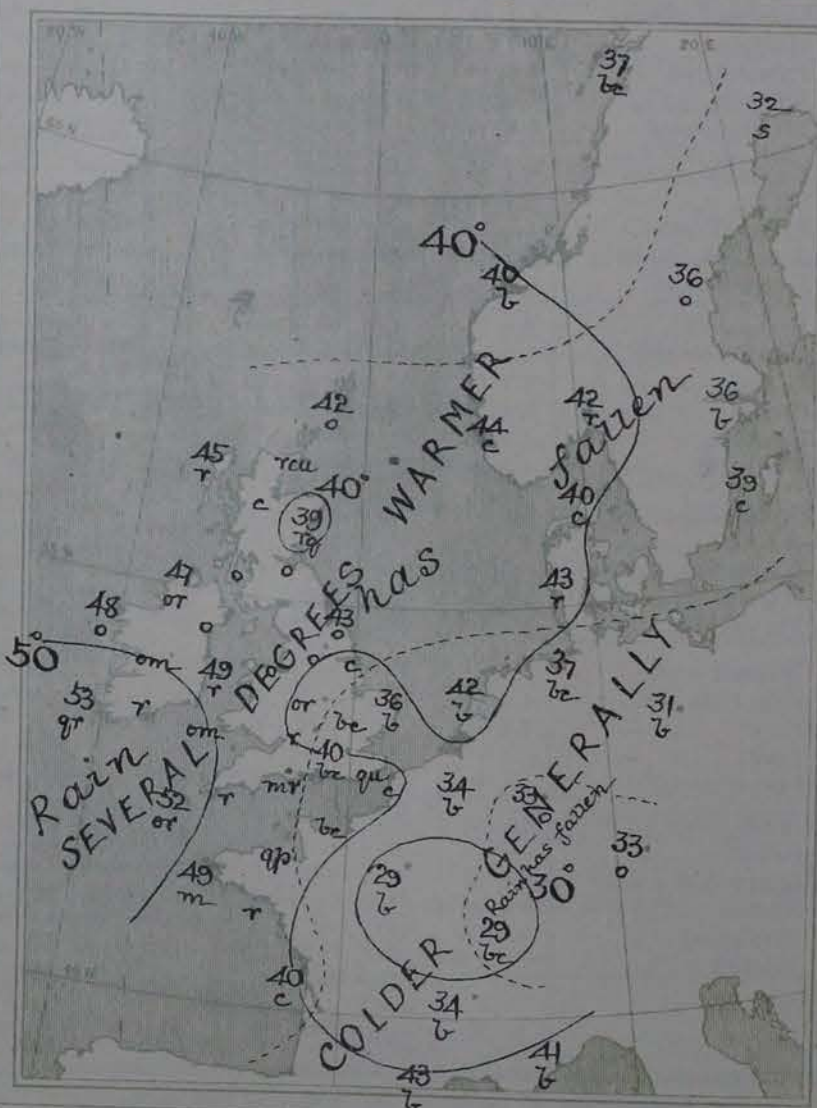
**RAINFALL**—A dotted line separates the districts in which rain has fallen from those where there has been none. Falls of 0.5 in. or more are quoted in figures.

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

(For the month of December.)

STATIONS.	TEMPERATURE				RAINFALL (Inches)
	Daily Max.	Daily Min.	Day	Night	
Sumburgh Head	42.0	35.2	39.6	38.1	4.25
Stornoway	43.1	34.2	39.4	38.5	5.63
Wick	42.2	32.7	38.1	36.8	3.10
Nairn	41.9	32.8	37.1	35.6	1.95
Aberdeen	41.9	32.6	36.9	35.2	3.21
Leith	44.0	33.7	38.5	37.0	1.86
Shields	42.9	33.9	38.3	36.9	2.57
Spurn Head	42.4	35.8	38.8	37.5	2.14
York	42.3	32.3	36.4	35.4	2.28
Loughborough	42.7	32.2	36.3	35.4	2.24
Ardrossan	44.5	35.9	40.0	38.7	3.73
Mullaghmore	46.5	37.8	42.2	39.8	4.54
Donaghadee	45.8	36.2	40.2	39.2	2.84
Holyhead	46.4	39.1	42.8	41.1	3.42
Liverpool	43.5	35.6	38.8	37.1	2.59
Parsonstown	44.7	33.1	37.8	36.6	3.04
Valencia	49.7	40.0	44.6	42.4	5.99
Roche's Point	47.9	38.9	42.0	41.5	4.95
Pembroke	46.8	40.3	43.6	42.2	3.39
Sally	49.5	43.4	47.0	45.1	4.02
Prawle Point	47.0	38.2	42.5	41.1	3.76
Jersey	47.3	39.3	43.1	41.4	3.82
Hurst Castle	43.6	36.3	40.6	39.8	2.78
Dover	44.3	35.9	39.8	38.6	3.00
LONDON	44.0	33.9	37.8	36.7	2.10
Oxford	42.9	33.5	37.0	35.9	2.10
Cambridge	42.8	31.6	36.2	35.5	1.88
Yarmouth	41.9	33.7	37.9	37.0	2.06

NOTE.—The Temperatures 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 30.40 ins. at Lisbon; 30.1 ins. and upwards over France and south Germany.  
 Lowest 28.9 ins. and less in a depression lying off the northwest of Scotland.  
 Gradients rather steep over our Islands and the North Sea, but slight elsewhere.  
 Barometer falling on our western and northern coasts, but rising at our eastern and most of the Continental stations.

## TEMPERATURE

Highest 53° at Valence (Ireland), 52° at Roches Pt. and Sabley, 51° at Lisbon, and 50° at Parsonstown & Pembroke.  
 Lowest (1) 14° at Paris and Belfort, and 31° at Berlin, (2) 35° at Cambridge, and 36° at Yarmouth; (3) 32° at Haparanda, and 36° at Helsingfors and Stockholm.  
 Frost occurred last night over the southeastern parts of England; in London the thermometer on the grass fell to 24°.

## WIND

S<sup>2</sup> or SW<sup>2</sup> over nearly the whole of western Europe, and strong in force on most parts of our western, northern and southern coasts, with a gale in the Hebrides.

## WEATHER

Light from the NW<sup>2</sup> over the southern parts of France and Germany.  
 Dull and rainy in most parts of the United Kingdom, as well as in the northwest of France, Denmark and the south of Norway.  
 Fine in the southeast of England, and also over the Netherlands, Germany & the greater part of France.  
 The amounts of rainfall measured this morning are confined principally to the western and northern parts of our Islands and are not heavy. A lunar halo was seen yesterday at Leith.

## SEA

Rough on our western and extreme northern coasts and rather rough off the north and west of France; moderate or slight elsewhere.

## PROBABLE CHANGES IN SYSTEM NOW PREVALENT

The depression in the northwest is likely to spread eastwards and to occasion gales or strong winds on all our coasts, with squally rainy weather.

# FORECASTS

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

## DISTRICTS.

## FORECASTS.

0	SCOTLAND NORTH	} S <sup>2</sup> to W <sup>2</sup> strong winds and gales; squally, some rain or sleet.
1	SCOTLAND EAST	
2	ENGLAND N.E.	} SW <sup>2</sup> to W <sup>2</sup> winds, increasing in force; squally, some rain.
3	ENGLAND EAST	
4	MIDLAND COUNTIES	
5	ENGLAND SOUTH	} SW <sup>2</sup> and W <sup>2</sup> winds, increasing to a gale; squally, rain at times.

## DISTRICTS.

## FORECASTS.

6	SCOTLAND WEST	} SW <sup>2</sup> to W <sup>2</sup> or NW <sup>2</sup> strong winds and gales; squally, rain at times.
7	ENGLAND N.W.	
8	ENGLAND S.W.	
9	IRELAND NORTH	
10	IRELAND SOUTH	

## WARNINGS

At 9.50 am to all coasts  
 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. Direc.	F.	WEA.	SEA.		BAR.	THER.		WIND. Direc.	F.	WEA.	SEA.
		Dry.	Wet.							Dry.	Wet.				
Skudesnaes ...	28.96	43	37	WSW	4	0	4	Valencia ...	29.73	47	45	W	7	bcy	6
Sumburgh Head ...	28.73	40	38	S	1	0	4	Scilly ...	29.74	46	43	WNW	6	cy	6
Stornoway ...	28.60	43	43	NW	6	1	5	Jersey ...	29.73	46	43	W	4	bc	4
Aberdeen ...	28.91	39	36	SSW	3	0	3	Hurst Castle ...	29.63	46	43	WSW	6	bc	4
Shields ...	29.19	42	39	WSW	4	0	2	Dungeness ...	29.58	45	41	W	4	bc	4
Ardrossan ...	29.14	45	43	W	7	cy	4	North Foreland ...	29.57	43	39	WSW	3	bc	3
Malin Head ...	29.20	42	40	NW	7	0	5	London (Westminster) ...	29.55	44	40	WSW	2	bc	4
Mullaghmore ...								Yarmouth ...	29.44	40	38	WSW	4	bc	4
Belmullet ...	29.46	43	40	WNW	7	cy	4	Rochefort ...	29.86	46	42	NW	4	c	4
Holyhead ...	29.44	42	40	WNW	6	cy	6								

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

*Continental information not yet received.*

## GENERAL REMARKS ON THE WEATHER OVER EUROPE FOR THE 24 HOURS ENDING AT 8 A.M. ON 21<sup>ST</sup> DEC. 1893.

Weather fine at several of our own northern and northwestern stations as well as in Spain and some parts of Germany. Dull in nearly all other parts of our islands and the Continent, with rain over England, the south of Ireland and many parts of France, as well as in Denmark and the south of Norway. Rain falling later in all but the northeastern parts of our islands as well as in France, Germany and Sweden; amounts large at several of the English and Irish stations. Frost-halos seen over England at night, and thunder occurring at Ardrossan.

Temperature fallen in our islands and also in Russia and Austria, but risen in most other countries. Morning readings highest 62° at Malta, 58° at Namsos and Oran and 57° at San Fernando; above 50° at many of the Mediterranean and Asiatic stations, as well as in the extreme southwest of England and the northwest of France. Lowest 7° at Archangel, 10° at Moscow, 12° at Rostov and 21° at Hafslunda. Daily maxima below 40° in the north of Scotland, but thermometer rising to between 45° and 50° at most of the English and Irish stations and to 55° or more in the south of France. Frost occurring over the northern and central parts of the United Kingdom at night.

Wind moderate from the north in the north of our islands, but strong to a gale from the south or southeast on our southern coasts as well as over the Netherlands and the north of France. Southerly or southeasterly over Scandinavia, Denmark and Germany, with a gale in the south of Norway. Easterly or southeasterly over Italy; westerly in Algeria and the south of Spain. Subsequently blowing a violent gale from the west (southeast to northwest) over the western parts of the English Channel, and a strong gale on our south and southeast coasts generally.

Barometer highest 30.3 inches and upwards in an anticyclone over the Black Sea, and Asia Minor; 30.1 inches and upwards in another system over the south of Spain. Lowest 29.5 inches and less in a depression off the north of Scotland, 29.6 inches and less in a well marked secondary system over the St. George's Channel. Latter disturbance subsequently moving northwards, but becoming very complex owing to the formation of other systems over the southern parts of England.

### 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 Saturday, 23<sup>rd</sup> December, 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.		Max.	Min.	
		Inch.	°				Inch.	°	°	°						°	Inch.				
SCANDINAVIA.	Haparanda ...	29.44	35	S	2	0	29.46	+0.02	34	33	+ 2	SSW	2	0	#	0	35	27	0.04		
	Hernösand ...	29.50	36	S	6	0	29.35	-0.15	36	35	- 1	S	6	1	#	0	37	34	0.08		
	Stockholm ...	29.67	39	SSW	4	0	29.57	-0.10	38	37	- 1	SW	4	1	#	0	41	30	0.04		
	Wisby ...	29.85	40	WSW	6	0	29.75	-0.10	39	38	- 1	SW	8	0	#	0	43	36	-		
	Bodo ...	29.25	36	E	2	0	29.16	-0.09	36	32	- 4	E	2	0	1	0	37	32	-		
	Christiansund...	29.17	39	ESE	4	0	29.13	-0.04	42	38	- 4	SSW	3	0	3	0	42	37	-		
	Skudesnaes ...	29.25	44	WSW	8	1	29.44	+0.19	48	42	- 6	WSW	8	0	5	0.1	?	43	-		
	Christiania Fjord (Exerlor)	29.49	42	SSW	8	0	29.50	+0.01	42	41	- 1	WSW	6	0	5	0	43	41	-		
	Skagen (The Seaw)	29.52	42	WSW	4	1	29.63	+0.11	41	41	+ 0	WSW	1	0	0	1	43	39	0.24		
	Fanø ...	29.64	41	SW	6	0	29.81	+0.17	41	41	- 2	WSW	4	0	#	0	45	41	0.20		
BRITISH ISLANDS.	Sumburgh Head	28.99	43	W	4	0	29.23	+0.24	44	41	- 3	W	7	0	7	1	45	40	0.38		
	Stornoway ...	29.09	43	W	5	1	29.48	+0.39	43	41	- 2	W	4	0	4	1	48	39	0.43		
	Wick ...	29.12	43	W	5	0	29.47	+0.35	42	41	- 1	WSW	6	0	3	1	45	39	0.10		
	Nairn ...	29.20	42	WSW	2	0	29.55	+0.35	41	39	- 2	WSW	3	0	1	1	44	38	0.06		
	Aberdeen ...	29.28	40	S	2	0	29.64	+0.36	39	36	- 3	SW	2	0	2	0.1	45	37	0.02		
	Leith ...	29.38	42	W	3	0	29.75	+0.37	43	41	- 2	WSW	3	0	#	0	50	41	0.05		
	Shields ...	29.46	44	SW	3	0	29.84	+0.38	45	43	- 2	SW	3	0	2	1	50	40	0.05		
	Spurn Head ...	29.53	45	W	4	1	29.97	+0.44	41	39	- 2	SW	3	0	3	1	46	37	0.15		
	York ...	29.53	46	W	3	0	29.97	+0.44	45	42	- 3	SW	2	0	#	0	47	39	0.05		
	Loughborough	29.66	44	WSW	3	0	30.04	+0.38	41	39	- 2	WSW	3	0	#	0	51	38	0.12		
BRITISH ISLANDS.	Ardrossan ...	29.44	46	WSW	4	0	29.81	+0.37	46	45	- 1	WSW	4	0	3	1	48	43	0.28		
	Malin Head ...	29.44	44	WSW	5	0	29.79	+0.35	45	44	- 1	SW	4	0	5	1	49	41	0.16		
	Mullaghmore ...	29.60	46	W	7	0	29.91	+0.31	48	46	- 2	SW	4	0	#	0	48	45	0.09		
	Belmullet ...	29.58	39	WSW	5	0	29.91	+0.33	40	40	+ 0	SW	4	0	2	1	46	37	0.13		
	Donaghadee ...	29.58	39	WSW	5	0	29.91	+0.33	40	40	+ 0	SW	4	0	2	1	46	37	0.13		
	Liverpool (Bidston)	29.66	44	W	6	0	30.03	+0.37	44	41	- 3	SSW	5	0	4	1	52	43	0.17		
	Holyhead ...	29.66	45	WSW	4	0	30.01	+0.35	45	44	- 1	SW	3	0	2	1	50	44	0.25		
	Parsonstown ...	29.71	42	SW	1	0	30.01	+0.30	42	40	- 2	S	1	0	#	0	51	39	0.24		
	Valencia ...	29.85	48	SW	4	0	30.09	+0.24	47	46	- 1	SSW	4	0	5	1	53	46	0.26		
	Roche's Point	29.81	45	WSW	4	0	30.08	+0.27	45	44	- 1	W	3	0	4	1	52	43	0.01		
BRITISH ISLANDS.	Pembroke (St. Ann's Hd.)	29.78	48	WSW	4	0	30.09	+0.31	49	47	- 2	W	3	0	5	1	51	47	0.24		
	Scilly ...	29.88	50	WSW	5	0	30.16	+0.28	50	48	- 2	WSW	4	0	5	1	53	49	0.12		
	Prawle Point ...	29.88	47	WSW	2	0	30.20	+0.32	44	43	- 1	WSW	3	0	2	1	51	43	0.17		
	Jersey (St. Aubin's)	29.88	51	SW	5	0	30.22	+0.34	44	43	- 1	W	3	0	3	1	52	39	0.24		
	Hurst Castle ...	29.78	50	W	6	0	30.16	+0.38	42	42	+ 0	W	3	0	4	1	51	40	0.22		
	Dungeness ...	29.76	48	SW	8	0	30.12	+0.36	41	40	- 1	WSW	4	0	5	1	49	36	0.08		
	North Foreland	29.76	47	SW	7	0	30.13	+0.37	40	39	- 1	SW	3	0	3	1	48	37	0.12		
	London ...	29.71	50	WSW	4	0	30.13	+0.42	38	37	- 1	SW	2	0	#	0	50	36	0.14		
	Oxford ...	29.82	43	WSW	3	0	30.12	+0.31	37	37	+ 0	WSW	2	0	#	0	52	37	0.10		
	Cambridge ...	29.66	50	SSW	4	0	30.08	+0.42	35	35	+ 0	SSW	3	0	#	0	51	33	0.07		
Yarmouth ...	29.64	47	SSW	6	0	30.03	+0.39	37	36	- 1	WSW	3	0	3	1	47	35	0.09			
GERMANY & HOLLAND.	Cuxhaven ...	29.90	41	SSW	5	0	29.98	+0.08	41	41	+ 0	SW	3	0	#	0	41	37	0.16		
	Berlin ...	30.15	33	SW	2	0	30.10	+0.05	34	32	- 2	SW	3	0	#	0	39	31	-		
	Wiesbaden ...	30.15	33	SW	2	0	30.19	+0.04	34	33	- 1	SW	3	0	#	0	37	32	0.04		
	Munich ...	30.22	32	W	1	0	30.27	+0.05	29	29	+ 0	S	4	0	#	0	34	28	-		
	The Helder ...	29.76	42	S	9	1	30.06	+0.30	43	41	- 2	WSW	2	0	2	1	?	?	0.08		
	Brussels (9 a.m.)	30.19	45	WSW	7	1	30.17	+0.02	39	39	+ 0	SW	1	0	#	0	41	34	0.08		
	Cape Gris Nez	30.19	45	WSW	7	1	30.07	+0.12	45	43	- 2	WSW	3	0	3	1	45	41	0.04		
	Paris ...	30.11	37	SW	4	0	30.20	+0.09	38	38	+ 0	S	1	0	#	0	40	29	0.08		
	Brest ...	30.01	53	WSW	5	0	30.25	+0.24	49	47	- 2	WSW	2	0	3	1	54	46	0.16		
	Lorient ...	30.01	51	SW	5	0	30.25	+0.24	43	43	+ 0	W	0	0	4	1	54	41	0.16		
FRANCE AND BELGIUM.	Rocheport ...	30.15	48	SW	3	0	30.20	+0.05	47	47	+ 0	N	3	0	#	0	50	40	0.24		
	Belfort ...	30.23	35	WSW	2	0	30.32	+0.09	31	31	+ 0	W	3	0	#	0	45	29	-		
	Lyons ...	30.02	47	E	3	0	30.16	+0.14	51	39	- 12	ENE	4	0	#	0	54	41	-		
	Nice ...	30.18	47	W	4	0	30.25	+0.07	50	48	- 2	E	1	0	#	0	52	42	-		
	Perpignan ...	30.18	47	W	4	0	30.25	+0.07	50	48	- 2	E	1	0	#	0	52	42	-		
	Biarritz ...	30.18	47	W	4	0	30.25	+0.07	50	48	- 2	E	1	0	#	0	52	42	-		
	Corunna ...	30.14	53	NE	3	0	30.39	+0.25	45	45	+ 0	NNE	4	0	#	0	57	45	-		
	Lisbon ...	30.14	53	NE	3	0	30.39	+0.25	45	45	+ 0	NNE	4	0	#	0	57	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 Saturday, 23<sup>rd</sup> Dec: 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

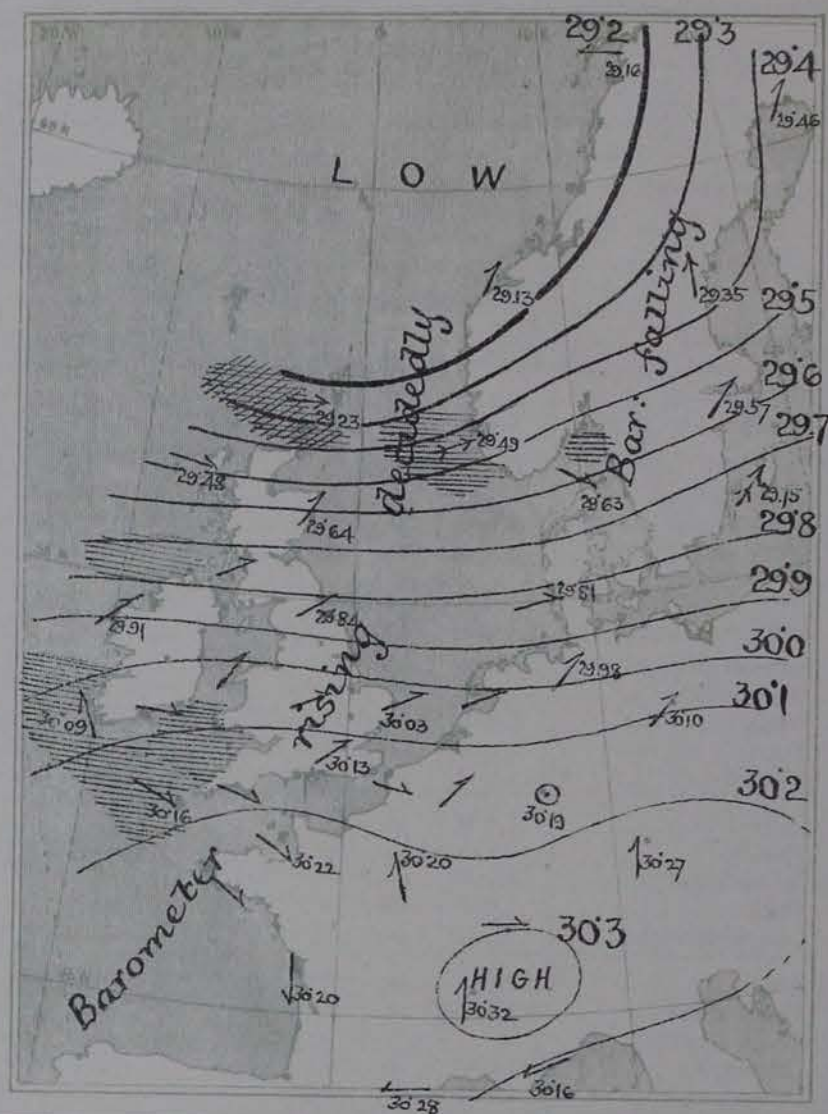
at 8 a.m. for the month of December.

During the 20 Years 1871-1890.

### STATIONS.

### MEAN READINGS.

STATIONS.	MEAN READINGS.
Sumburgh Head	29.673
Stornoway	29.705
Wick	29.718
Nairn	29.743
Aberdeen	29.767
Leith	29.807
Shields	29.845
Spurn Head	29.873
York	29.890
Loughborough	29.924
Ardrossan	29.929
Mullaghmore	29.921
Donaghadee	29.948
Holyhead	29.979
Liverpool	29.983
Parsonstown	29.991
Valencia	29.993
Roche's Point	29.992
Pembroke	29.996
Scilly	29.991
Prawle Point	29.970
Jersey	29.983
Hurst Castle	29.958
Dover	29.953
LONDON	29.954
Oxford	29.955
Cambridge	29.941
Yarmouth	29.916



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

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

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

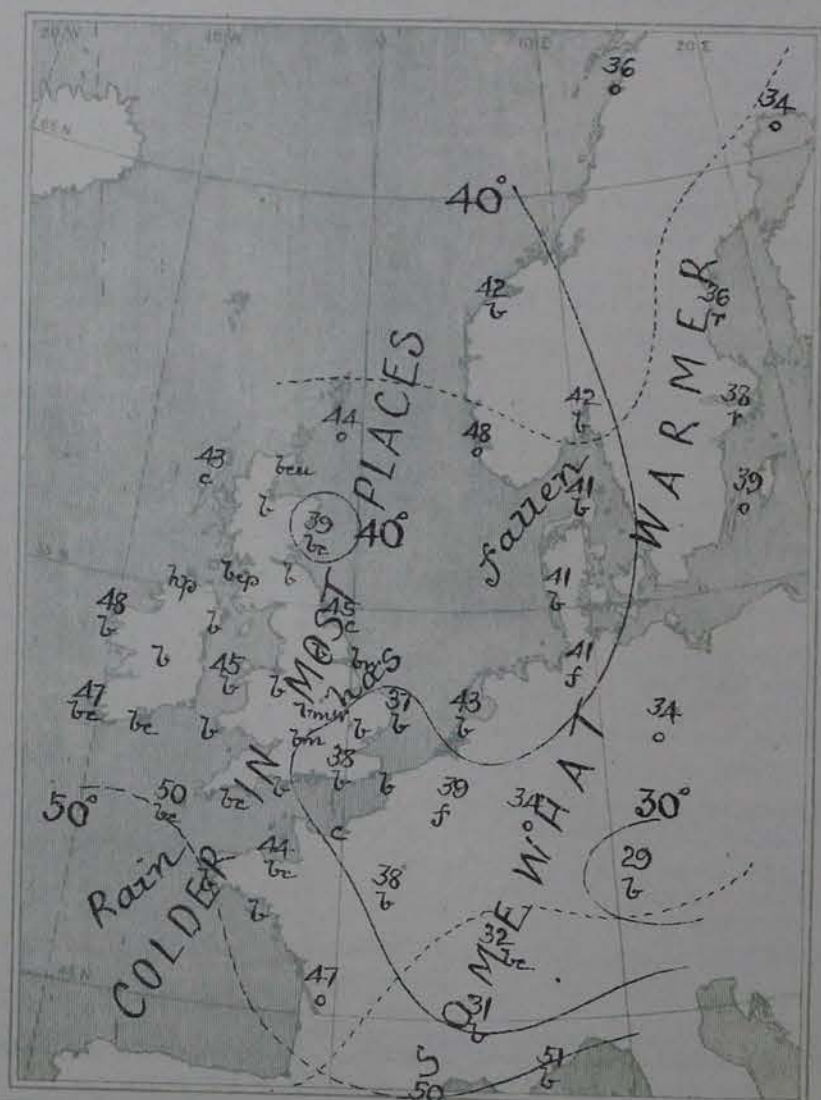
**RAINFALL**—A dotted line separates the districts in which rain has fallen from those where there has been none. Falls of 0.5 in. or more are quoted in figures.

## MEANS OF TEMPERATURE IN SHADE, AND RAINFALL

(For the month of December.)

STATIONS.	TEMPERATURE.				RAINFALL (Inches.)
	Daily Max.	Daily Min.	at 8 a.m.	at 8 p.m.	
Sumburgh Head	42.0	35.2	39.6	38.1	4.25
Stornoway	43.1	34.2	39.1	38.5	5.03
Wick	42.2	32.7	38.1	36.8	3.10
Nairn	41.9	32.8	37.1	35.6	1.05
Aberdeen	41.9	32.6	36.9	35.2	3.24
Leith	44.0	33.7	38.5	37.0	1.86
Shields	42.9	33.9	38.3	36.9	2.57
Spurn Head	42.4	35.3	38.8	37.2	2.14
York	42.3	32.3	36.4	35.4	2.28
Loughborough	42.7	32.2	36.3	35.4	2.24
Ardrossan	44.5	35.0	40.0	38.7	3.73
Mullaghmore	46.5	37.8	42.2	39.8	4.51
Donaghadee	45.8	36.2	40.2	39.3	2.84
Holyhead	46.4	39.1	42.8	41.1	3.82
Liverpool	43.5	35.6	38.8	37.1	2.59
Parsonstown	44.7	33.1	37.8	36.6	3.04
Valencia	49.7	40.0	44.0	42.4	5.09
Roche's Point	47.9	38.9	42.9	41.5	4.95
Pembroke	46.8	40.3	43.6	42.2	3.91
Scilly	49.5	43.4	47.0	45.1	4.02
Prawle Point	47.0	38.2	42.5	41.1	3.76
Jersey	47.3	39.3	43.1	41.4	3.82
Hurst Castle	45.0	36.3	40.6	39.8	2.78
Dover	44.3	35.9	39.8	38.6	3.00
LONDON	44.0	33.9	37.8	36.7	2.10
Oxford	42.9	33.5	37.0	35.9	2.10
Cambridge	42.8	31.6	36.2	35.5	1.88
Yarmouth	41.9	33.7	37.9	37.0	2.60

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, 30.39 in. at Lisbon; 30.32 in. at Lyons; 30.2 in. and upwards, in an anticyclone covering Spain, France, south Germany, and the western part of the Channel.

Lowest, 29.2 in. and less in a large depression lying off the west of Norway.

Gradients rather steep in the extreme north, but slight elsewhere.

Barometer rising at all but the Scandinavian stations.

## TEMPERATURE

Highest, 51° at Nice, 50° at Kelly and Perpignan, 49° at Pembroke and Brest, and 48° at Christiansund and Kilmullet.

Lowest, (1) 29° at Munich, 31° at Lyons and 32° at Belfast; (2) 34° at Haparanda, and 36° at Åbo and Helsingfors; (3) 35° at Cambridge.

In the course of the past 24 hours the barometer has risen to between 50° and 53° in many parts of the United Kingdom.

## WIND

W<sup>1</sup> or SW<sup>3</sup> over the greater part of our Islands, Scandinavia, Denmark, and the Netherlands; moderate in force generally, but strong in the north of Scotland. Blowing a gale in the south of Scandinavia.

Light from the N<sup>2</sup> or NW<sup>2</sup> in the west of France, and from the E<sup>2</sup> in the south of that country.

A moderate to fresh gale from the SW<sup>2</sup> was experienced yesterday over the Channel and southeast of England.

## WEATHER

Fine in nearly all parts of the United Kingdom and France and also in Denmark, but showery on our extreme northwest coasts.

Dull at many of the Scandinavian and German stations, with rain at Helsingfors and Stockholm.

Rain fell yesterday over the whole of our Islands, Denmark, the Netherlands and the north of France, the largest amounts being 0.4 in. at Lumburg, 0.4 in. at Helsingfors, 0.4 in. at Stockholm, 0.4 in. at Jersey.

## SEA

High at Lumburg, 14 ft. and rather rough on our extreme west and southwest coasts, as well as off the west of Norway.

## PROBABLE CHANGES IN SYSTEM NOW PREVALENT

The barometer is reported to be rising steadily in the west, but the winds there are backing, and at Valencia (Ireland) there is already a moderate breeze from SSE. Further depressions are probably approaching from the Atlantic, and the storm signals are therefore allowed to remain up for the present.

NOTICE. The report for tomorrow (Sunday) will be issued on Wednesday the 27<sup>th</sup> Inst., and the report for Monday (Christmas Day) on Thursday the 28<sup>th</sup> Inst.:

## FORECASTS

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

### DISTRICTS.

### FORECASTS.

† 0	SCOTLAND NORTH	} W <sup>2</sup> to SW <sup>2</sup> winds, freshening; fine to cloudy and some rain.
† 1	SCOTLAND EAST	
† 2	ENGLAND N.E.	} Same as No 5.
† 3	ENGLAND EAST	
† 4	MIDLAND COUNTIES	
† 5	ENGLAND SOUTH	SW <sup>2</sup> winds, freshening; fine at first, unsettled later, probably some rain.

### DISTRICTS.

### FORECASTS.

† 6	SCOTLAND WEST	} S <sup>2</sup> and SW <sup>2</sup> winds, moderate to strong; fine to dull and rainy.
† 7	ENGLAND N.W.	
† 8	ENGLAND S.W.	
† 9	IRELAND NORTH	
† 10	IRELAND SOUTH	

### WARNINGS

The South Cone is still 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 S.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 ...	29.86	44	43	SS E	6	0	4	Valencia ...	29.73	50	48	WSW	6	bcym	6
Sumburgh Head ...	29.90	43	43	S	3	1	5	Scilly ...	29.74	53	52	SSW	6	rm	5
Stornoway ...	29.02	44	43	W	5	bc	5	Jersey ...	29.93	49	48	SSW	5	om	4
Aberdeen ...	29.12	44	43	SSW	2	ogm	4	Hurst Castle ...	29.76	50	50	SW	7	odm	5
Shields ...	29.29	49	47	S	4	0	2	Dungeness ...	29.80	46	45	SW	7	1	5
Ardrossan ...	29.27	47	45	WSW	5	c	4	North Foreland ...	29.80	46	44	SW	6	c	5
Malin Head ...	29.29	45	45	W	6	b	4	London ...	29.74	48	46	SW	5	oggt	4
Mullaghmore ...								Yarmouth ...	29.67	45	43	SSW	6	cq	4
Belmullet ...	29.48	48	43	W	7	ogp	4	Rocheport ...	30.17	46	44	SW	3	0	4
Holyhead ...	29.49	45	45	WNW	5	1	4								

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

Weather fine in the southeast of England, as well as over the Netherlands, north Germany and the greater part of France. Rain in all the more western and northern parts of the United Kingdom, and also in Italy and Austria; dull in Scandinavia, Russia and south Germany, with rain at Fæder. Improvement taking place later in the west and north of our Islands, but steady rain falling in the southeast of England, as well as in the Netherlands and north of France.

Temperature fallen in the central and southern parts of Europe, but risen elsewhere. Morning readings highest (1) 59° at Aram, 56° at Nemours and Malta, and 54° at Algiers; (2) 53° at Valencia (Ireland), and 52° at Rock's Point and Scilly; above 45° on most parts of our own western and southern coasts. Lowest 13° at Archangel, 20° at Khar'kov, 22° at Hermanstadt, 24° at Moscow, and 29° at Belport, below the freezing point in many parts of Russia, Germany and France. Rising during day to 50° or a little above it at several of our own stations, and also in the west and south of France, and reaching 57° at Lisbon. Frost occurring in the southeast of England at night.

Wind strong from the S<sup>W</sup> or S<sup>W</sup><sup>W</sup> over nearly the whole of northwestern and northern Europe, but moderate on the east coasts of St. Britain, and also in the west of Norway. Light from the S<sup>W</sup> over Russia, variable in Austria, E<sup>W</sup> or SE<sup>W</sup> in Italy, N<sup>W</sup> or NW<sup>W</sup> in Spain and Algeria with a gale at Algiers. Subsequently increasing to a moderate or fresh gale from the S<sup>W</sup> in the English Channel, but veering to the W<sup>W</sup> and moderating in most other parts of our Islands.

Barometer highest 30.4 ins. and upwards in an anticyclone lying to the S<sup>W</sup> of Portugal; 30.3 ins. and upwards in another system over the S. of Russia. Lowest 29.0 ins. and less in a depression off the N<sup>W</sup> of Scotland (gradient rather steep over N<sup>W</sup> Europe generally) 29.8 ins. and less in a large disturbance over the Mediterranean, to the west of Italy. Depression in northwest subsequently travelling northwards but secondary disturbances moving across England during day.

## General remarks on the Weather over Europe for the 24 hours ending at 8 a.m. on Dec 21<sup>st</sup> 1893.

Weather fine and bright over England, as well as in the southern parts of Spain and Italy. Cloudy or overcast elsewhere, with rain in the north of Scotland and many parts of France and Germany, and with hail showers in the west and north of Ireland. Snow reported at Helmsfors and Moscow. Fine weather setting in later in nearly all parts of western Europe, but rain falling at night in the west and north of our Islands. Sun seen at Leith.

Temperature risen in Ireland and also in Sweden, Russia and Germany, fallen in most other countries. Morning readings highest, 60° at Nemours and Aram, 59° at Algiers, 58° at Lesne, and 56° at Malta, above 50° at several of the Mediterranean stations, as well as on the coasts of the Spanish Peninsula. Lowest 16° at Archangel and Moscow, 17° at Khar'kov, and 23° at Hermanstadt, below the freezing point in many parts of Russia, Germany and Austria, and very little above it in the east of Scotland. Rising during day to 50° or more on several parts of our western coasts, but remaining below 40° in the north and east of our Islands. Frost occurring in the southeast of England at night.

Wind strong from the W<sup>W</sup> or NW<sup>W</sup> on the western coasts of our Islands and France, but moderate from the S<sup>W</sup> in the eastern parts of St. Britain, and strong from the same quarter over north Germany and the Netherlands. S<sup>W</sup> or SE<sup>W</sup> over Scandinavia, Russia and eastern Germany; strong in force in the south of Norway. SE<sup>W</sup> or E<sup>W</sup> in Italy, and variable in Algeria and the south of France. Subsequently blowing a strong gale from the W<sup>W</sup> in the west of Scotland, backing to the S<sup>W</sup> on our western coasts at night.

Barometer highest 30.3 ins. and upwards in an anticyclone lying to the S<sup>W</sup> of the Spanish Peninsula, 30.2 ins. and upwards in another system over the south of Russia. Lowest 28.7 ins. and less in a depression off the north of Scotland; secondary systems reported over the eastern parts of the North Sea. Depression in north subsequently moving eastwards but new disturbance beginning to approach our western coasts at 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. 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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# DAILY WEATHER REPORT

for 8 a.m. on Sunday 24<sup>th</sup> DEC<sup>r</sup>

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.		Dirce.	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.			Dirce.	Force (0 to 12).		Max.	Min.
		Inch.	°				Inch.	°	°	°						°	Inch.			
SCANDINAVIA.	Haparanda ...	29.22	33	S	2	s	29.28	- .18	31	30	-	3	Z	0	0	#	36	32	0.20	
	Hernösand ...	29.36	34	S	2	b	29.39	+ .04	28	27	-	8	Z	0	c	#	37	32	0.16	
	Stockholm ...	29.65	41	WSW	4	c	29.62	+ .06	41	38	+	3	SW	4	b	#	41	34	-	
	Wisby ...	29.88	41	WSW	6	b	29.78	+ .03	40	39	+	1	WSW	4	b	#	41	36	-	
	Bodö ...	29.20	41	E	2	r	29.37	+ .21	36	34	-	0	Z	0	0	0	41	37	0.24	
	Christiansund...	29.15	40	SW	9	r	29.65	+ .52	42	39	-	0	WSW	8	r	5	42	39	0.63	
	Skudesnaes ...	29.73	46	WSW	9	c	29.93	+ .44	45	44	-	3	WSW	4	0	5	48	41	-	
	Christiania Fjord (Færd)	29.62	42	SW	6	b	29.73	+ .23	43	41	+	1	WSW	4	b	3	43	?	-	
	Skagen (The Scaw)	29.78	41	WSW	3	bc	29.88	+ .25	42	41	+	1	WSW	3	b	0	43	39	-	
	Fanö ...	30.02	43	WSW	4	b	30.10	+ .29	43	42	+	2	WSW	4	c	#	45	41	-	
BRITISH ISLANDS.	Sumburgh Head	29.55	44	W	5	b	29.76	+ .53	43	43	-	1	S	1	0	5	46	34	0.07	
	Stornoway ...	29.76	45	W	4	r	29.56	+ .08	47	47	+	4	S	7	r	6	48	40	0.10	
	Wick ...	29.68	43	WN	2	b	29.66	+ .19	44	44	+	2	S	5	cw	3	44	39	0.01	
	Nairn ...	29.81	45	WSW	1	bc	29.66	+ .11	47	43	+	6	SW	3	c	1	47	37	-	
	Aberdeen ...	29.97	43	SSW	3	bc	29.83	+ .19	44	42	+	5	S	5	ogv	5	46	38	-	
	Leith ...	29.96	42	WSW	4	bc	29.83	+ .08	47	44	+	4	SSW	3	0	#	48	41	-	
	Shields ...	30.01	47	WSW	2	b	29.97	+ .13	42	40	-	3	SSW	2	bcw	2	48	40	-	
	Spurn Head ...	30.11	43	SSW	2	bcw	30.12	+ .13	38	37	-	3	S	3	omg	3	44	36	-	
	York ...	30.11	46	W	1	0	30.07	+ .10	41	40	-	4	S	1	0	#	48	36	-	
	Loughborough	30.18	42	SW	1	b	30.16	+ .12	40	39	-	1	SSE	2	cmw	#	49	37	-	
GERMANY & HOLLAND.	Ardrossan ...	29.97	41	S	3	0	29.76	- .05	47	46	+	1	SSE	5	r	5	47	45	0.08	
	Malin Head ...	29.91	46	SW	5	cm	29.52	- .27	47	47	+	2	S	7	or	4	48	45	0.01	
	Mullaghmore ...	29.94	48	SSW	4	bc	29.58	- .33	50	50	+	2	SW	6	0	#	50	46	0.32	
	Donaghadee ...	30.05	42	WSW	3	bc	29.79	- .12	48	47	+	8	SSW	7	0	5	48	39	0.04	
	Liverpool (Bidston)	30.14	45	SW	2	b	30.02	- .01	42	42	-	2	SE	3	0	2	48	42	-	
	Holyhead ...	30.13	47	WSW	3	b	29.90	- .28	47	47	+	2	S	4	r	3	49	41	0.05	
	Parsonstown ...	30.06	48	SW	1	0	29.73	- .36	51	50	+	9	SW	3	or	#	52	40	0.05	
	Valencia ...	30.05	49	SSE	4	c	29.73	- .36	53	52	+	6	S	6	rm	5	53	46	0.45	
	Roche's Point	30.02	49	WSW	3	c	29.83	- .25	52	52	+	7	SSW	8	r	5	52	45	0.40	
	Pembroke (St. Ann's Hd.)	30.16	49	SSW	3	b	29.97	- .12	49	49	+	0	SSW	6	rm	6	50	48	0.07	
FRANCE AND BELGIUM.	Scilly ...	30.20	50	SSW	4	cm	30.04	- .12	51	51	+	1	SSW	5	om	5	53	48	0.03	
	Prawle Point ...	30.28	47	W	3	c	30.18	- .12	49	47	+	5	SW	3	c	2	51	43	-	
	Jersey (St. Aubin's)	30.30	46	WSW	3	bcw	30.28	+ .06	45	44	+	1	SSE	5	omf	4	52	41	0.02	
	Hurst Castle ...	30.26	46	WSW	3	bc	30.21	+ .05	47	46	+	5	SW	5	cur	4	50	41	0.01	
	Dungeness ...	30.23	45	W	2	bc	30.25	+ .13	47	45	+	6	SW	5	0	3	51	35	0.01	
	North Foreland	30.25	43	WSW	2	bc	30.28	+ .15	45	44	+	5	SW	2	c	3	48	37	0.01	
	London ...	30.24	47	SSW	1	b	30.23	+ .10	43	43	+	5	SSE	1	bc	#	51	38	-	
	Oxford ...	30.24	42	SW	2	bc	30.19	+ .07	43	43	+	6	S	2	om	#	48	35	0.01	
	Cambridge ...	30.22	39	SSW	1	b	30.22	+ .14	42	42	+	7	S	1	0	#	49	33	-	
	Yarmouth ...	30.15	41	WSW	3	b	30.20	+ .17	38	38	+	1	SW	3	f	3	45	32	0.01	
PENIN- SULA.	Cuxhaven ...	30.14	40	SW	3	0	30.26	+ .28	39	39	-	2	WSW	2	f	#	41	39	-	
	Berlin ...	30.25	36	SW	2	0	30.30	+ .20	37	36	+	3	SW	2	0	#	39	37	-	
	Wiesbaden ...	#	#	#	#	#	30.42	+ .23	33	33	-	1	Z	0	0	#	37	32	0.08	
	Munich ...	30.34	35	SW	1	0	30.39	+ .12	32	32	+	3	SE	1	f	#	39	28	0.04	
	The Helder ...	30.23	43	SW	2	b	30.29	+ .23	43	42	-	0	SW	2	c	2	45	41	-	
	Brussels (O. A. M.)	#	#	#	#	#	30.37	+ .20	37	37	-	2	SW	2	f	#	44	37	-	
	Cape Gris Nez	30.20	45	W	1	f	30.22	+ .15	42	42	-	3	S	1	f	#	46	39	-	
	Paris ...	30.35	33	SSE	1	f	30.39	+ .19	37	37	-	1	S	2	m	#	42	35	0.08	
	Brest ...	?	50	WSW	3	f	?	?	51	50	+	2	S	4	0	#	54	46	-	
	Lorient ...	30.32	45	S	2	b	30.27	+ .02	49	48	+	6	S	4	0	4	54	41	-	
FRANCE AND BELGIUM.	Rochefort ...	30.32	46	N	3	m	30.34	+ .14	35	35	-	12	E	1	f	#	48	34	-	
	Belfort ...	?	38	W	3	0	?	?	38	37	+	6	W	3	m	#	44	32	-	
	Lyons ...	30.34	41	NW	1	0	30.40	+ .08	38	38	+	7	N	1	f	#	44	31	0.04	
	Nice ...	30.21	46	E	1	bc	30.23	+ .07	45	37	-	6	E	1	b	#	57	43	-	
	Perpignan ...	30.27	55	NW	3	c	30.34	+ .09	42	41	-	8	W	2	b	#	59	40	-	
	Biarriz ...	30.30	54	W	3	f	30.30	-	48	46	-		S	3	bc	5	55	45	0.04	
PENIN- SULA.	Corunna ...	#	#	#	#	#	30.38	- .01	46	44	+	1	NNE	7	b	#	55	45	-	
	Lisbon ...	30.36	50	N	4	b	30.38	- .01	46	44	+	1	NNE	7	b	#	55	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 Sunday, 24<sup>th</sup> Dec. 1893.

## BAROMETER, WIND AND SEA.

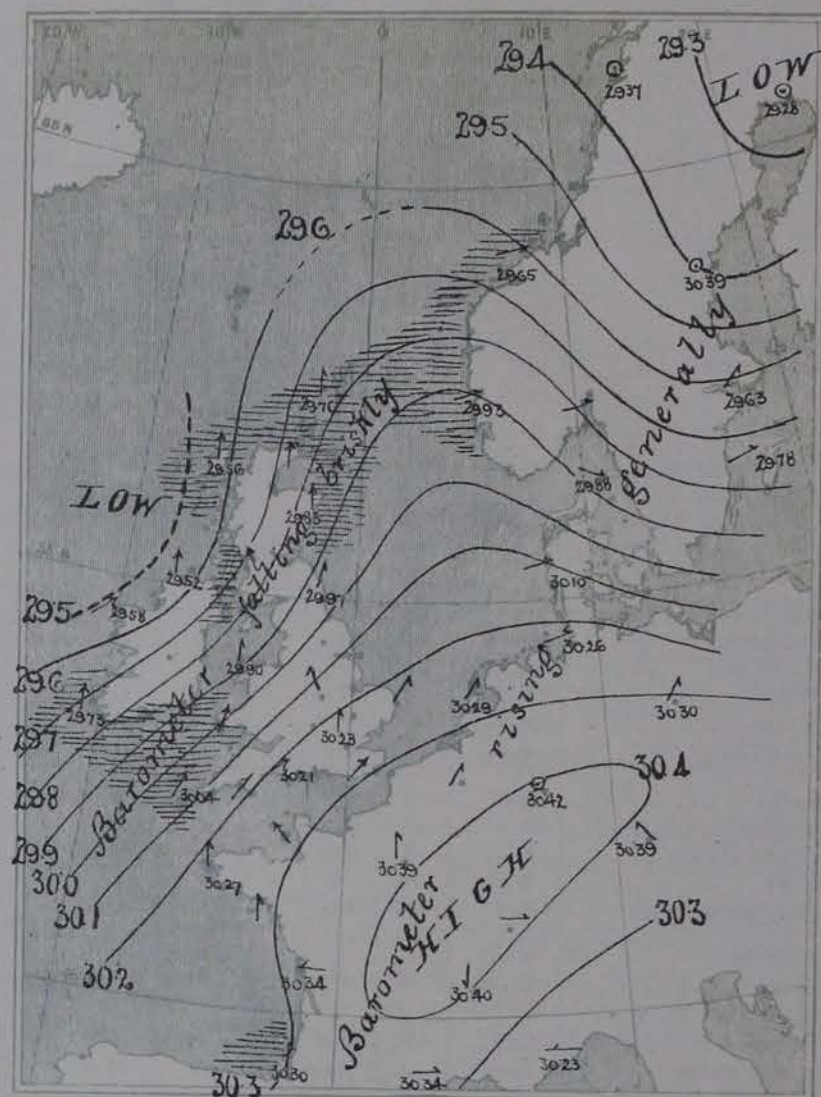
### EXPLANATION OF MAP

**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 a.m. for the month of December.  
During the 20 Years 1871–1890.

STATIONS.	MEAN READINGS.
Sumburgh Head	29.673
Stornoway	29.705
Wick	29.718
Nairn	29.743
Aberdeen	29.767
Leith	29.807
Shields	29.845
Spurn Head	29.874
York	29.890
Loughborough	29.921
Ardrossan	29.920
Mullaghmore	29.921
Donaghadee	29.848
Holyhead	29.879
Liverpool	29.895
Parsonstown	29.901
Valencia	29.905
Roche's Point	29.912
Pembroke	29.910
Scilly	29.951
Prawle Point	29.970
Jersey	29.985
Hurst Castle	29.958
Dover	29.953
LONDON	29.954
Oxford	29.955
Cambridge	29.941
Yarmouth	29.910





# GENERAL SITUATION AT 8 A.M.

## PRESSURE

Highest 30.4 ins. and upwards over western Germany and the east of France; 30.3 ins. and upwards in an anticyclone covering nearly the whole of France, Spain and Germany.

Lowest 29.3 ins. and less in the north of Sweden; 29.5 ins. and less in a depression lying off our extreme northwest coasts.

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

## TEMPERATURE

Highest 53° at Valencia (Ireland) 52° at Roche's Pt., 51° at Parsonstown, Sicily and Brest, & 50° at Belmullet.

Lowest (1) 28° at Helsingfors, 31° at Haparanda, and 36° at Bodö; (2) 32° at Munich, 33° at

Whistaden, and 34° at Berlin, Brussels and Paris.

Slight frost again occurred last night over the E. and S.E. parts of England; in London the thermometer on the grass again fell to 29°.

5<sup>th</sup> or S.W. over our Islands and the greater part of France; strong in force on our western and northwestern coasts, with a gale at Roche's Point.

## WIND

W. or S.W. over Scandinavia, Denmark and Germany, with a gale at Kristiansund.

Light and variable in the south of France, strong from N.N.E. at Lisbon.

## WEATHER

Rainy on our western and northwestern coasts, and dull in most other parts of the United Kingdom, as well as in Norway.

Foggy in many parts of France, Germany and the Netherlands; fine in the south of Sweden and also in the south of France.

Since yesterday morning rain has fallen at most of our W. or S.W. and extreme N.W. coasts, the amounts being slight generally, but rather considerable in the E. of Ireland.

## SEA

Rough or rather so on our western and extreme northern coasts, but moderate or slight elsewhere.

## PROBABLE CHANGES IN SYSTEM NOW PREVALENT

# FORECASTS

For the 24 hours ending at NOON on 25<sup>TH</sup> DEC.

1893.

## DISTRICTS.

## FORECASTS.

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

ISSUED  
NONE

## DISTRICTS.

## FORECASTS.

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

ISSUED  
NONE

## WARNINGS

AT 9.20 AM. TO DISTRICTS 0, 1 AND 6 TO 10 KEEP UP 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. Direc.	F.	WEA.	SEA.		BAR.	THER.		WIND. Direc.	F.	WEA.	SEA.
		Dry.	Wet.							Dry.	Wet.				
Skudesnaes ...	29.65	45	42	W.S.W.	8	0	5	Valencia ...	30.09	52	51	S	4	bc	5
Sumburgh Head ...	29.61	45	41	W	6	0	7	Scilly ...	30.27	53	51	N.W.	3	bc	5
Stornoway ...	29.69	45	44	W	4	bc	4	Jersey ...	30.29	57	49	W.S.W.	3	bm	3
Aberdeen ...	29.77	44	40	SW	3	c	3	Hurst Castle ...	30.23	44	47	N.W.	3	bm	3
Shields ...	29.95	48	44	W.S.W.	2	0	2	Dungeness ...	30.19	50	47	W	3	0	2
Ardrossan ...	29.91	47	46	W.S.W.	4	c	3	North Foreland ...	30.21	48	45	W.S.W.	2	0	3
Malin Head ...	29.88	48	46	SW	4	0	4	London (Westminster) ...	30.20	49	46	SW	2	0	3
Mullaghmore ...								Yarmouth ...	30.11	45	43	W.S.W.	3	0	3
Belmullet ...	29.97	50	48	SW	3	bc	*	Rochefort ...	30.28	46	45	N	3	f	*
Holyhead ...	29.03	48	46	W.S.W.	3	0	2								

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

Weather in morning dull and foggy over Southern Europe, dull over Italy and the Adriatic, very fine over France, the United Kingdom and North Sea; dull and unsettled over Northern Europe, with rain at two out of the four Swedish stations. Rain later in the west and north of our Islands and also over Northern Europe, but fine weather prevailing elsewhere; heavy dew over the southern counties of England in the night.

Temperature in morning exceeding 50° on the southern shores of the Mediterranean and all the shores of the Atlantic, as well as at Bilbao and Biarritz, touching 50° at Perpignan and Scilly, 48° at Belmullet and Skudesnaes. Lowest (1) 22° at Archangel, 29° at Moscow, 34° at St. Petersburg, (2) 22° at Kiev, 23° at Hermannstadt, 29° at Kharkov; (3) 29° at Munich, 31° at Lyons, 32° at Belfast. Rising later to between 60° and 70° over Algeria and the south of Italy, to between 55° and 58° over many parts of southern Europe, and to between 50° and 55° over the south and southwest of the British Islands generally.

Wind light and variable (anticyclonic) over eastern, central and southern Europe generally; cyclonic, W<sup>1</sup> to S<sup>3</sup>, over the northern and northwestern countries, and strong to a gale in force at the more northern stations; cyclonic, E to N<sup>2</sup>, over the Mediterranean and blowing strongly at Malta and some Algerian stations. Backing more to the S<sup>2</sup> in Ireland later, but blowing hard from W.S.W. in the west of Norway; very little change elsewhere.

Barometer highest 30.4 ins. and more to 30.3 ins. over Hungary and the south of Russia, and exceeding 30.2 ins. in a broad col spreading thence across Southern Europe to the Bay of Biscay and Atlantic. Lowest 29.2 ins. and less over the west of Norway, and apparently still lower over the adjacent parts of the Atlantic, gradients somewhat steep in the north, slight elsewhere. Low-pressure area in north spreading eastwards later; new but deep disturbance approaching Ireland from the Atlantic.

### 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 25<sup>th</sup> DEC<sup>r</sup>

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 52° 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).	
	Inch.	°					Inch.		°	°	°							°	Inch.	
SCANDINAVIA.	Haparanda ...	29.51	31	W	2	0	29.75	+ .47	30	29	—	1	N	2	0	#	0	32	27	—
	Hernösand ...	29.73	34	Z	0	6	29.86	+ .47	23	23	—	5	Z	0	6	#	6	36	28	—
	Stockholm ...	29.86	37	W	4	6	29.92	+ .29	30	28	—	11	WSW	2	6	#	6	43	?	—
	Wisby ...	29.93	39	WNW	4	6	29.99	+ .21	37	36	—	3	NNW	4	6	#	6	41	36	—
	Bodö ...	29.67	37	E	2	6	29.74	+ .37	35	33	—	1	E	2	6	#	6	37	32	—
	Christiansund...	29.82	40	ESE	2	6	29.45	— .20	41	37	—	1	E	3	c	4	6	42	37	0.04
	Skudesnaes ...	29.87	45	SSE	8	0	29.52	— .41	44	43	—	1	SSE	10	r	7	0	46	41	—
	Christiania Fjord (Færder)	29.94	41	W	2	6	29.79	+ .06	42	41	—	1	SSW	5	s	3	6	43	41	—
	Skagen (The Scaw)	30.03	40	W	1	6	29.82	— .06	41	40	—	1	WSW	3	0	0	6	43	39	—
	Fanö ...	30.09	42	WSW	4	0	29.88	— .22	39	38	—	4	SSW	6	r	#	0	45	39	0.04
ISLANDS.	Sumburgh Head	29.51	45	SSE	3	0	29.38	— .38	44	42	+	1	NNW	2	0	4	0	46	37	0.24
	Stornoway ...	29.49	46	SW	3	c	29.54	— .02	37	37	—	10	SW	3	6	4	r c	48	35	0.39
	Wick ...	29.47	46	W	3	6	29.47	— .19	36	36	—	8	NNW	3	0	2	6	46	36	0.05
	Nairn ...	29.49	50	Z	0	c	29.55	— .11	39	39	—	8	WNW	1	c	1	c	35	37	0.04
	Aberdeen ...	29.58	45	SSE	5	0	29.58	— .25	39	37	—	5	W	2	c	4	p, o, r	46	39	0.53
	Leith ...	29.60	50	WSW	3	r	29.69	— .14	42	40	—	5	WSW	5	6	#	r	52	40	0.43
	Shields ...	29.69	47	S	5	0	29.76	— .21	42	39	—	0	SW	4	6	2	o, r, g	49	40	0.04
	Spurn Head ...	29.89	44	S	4	r	29.89	— .23	42	40	+	4	W	3	6	3	g p	46	38	0.03
	York ...	29.84	48	SSW	4	0	29.91	— .16	42	40	+	1	WSW	3	6	#	0	50	40	0.09
	Loughborough	29.94	47	SSW	5	0	30.01	— .15	41	38	+	1	WSW	5	6	#	o, r, g	50	40	0.06
BRITISH ISLANDS.	Ardrossan ...	29.56	47	SW	3	r	29.75	— .01	43	42	—	4	SW	4	c, p, g	4	r	48	40	0.87
	Malin Head ...	29.56	45	SW	2	0	29.77	+ .25	44	41	—	3	WSW	4	o, p	2	r, o	50	40	0.13
	Mullaghmore ...	29.60	45	SW	2	0	29.85	+ .27	45	43	—	5	WSW	8	ow	#	6, o	51	43	0.12
	Belmullet ...	29.60	47	SW	4	r	29.89	+ .10	38	38	—	10	WSW	4	6	3	r	50	34	0.41
	Liverpool (Bidston)	29.76	48	SE	4	r	29.98	— .04	42	40	—	0	WSW	7	6	5	r	50	41	0.14
	Holyhead ...	29.69	49	S	4	r	30.00	+ .10	43	40	—	4	W	6	6, c, g	5	r	50	42	0.65
	Parsonstown ...	29.64	51	SW	1	r	30.02	+ .29	39	37	—	12	SW	1	0	#	r	53	38	0.57
	Valencia ...	29.72	45	SW	4	r	30.12	+ .39	47	46	—	6	SW	5	c, p, g	4	r	53	43	0.30
	Roche's Point	29.72	48	W	4	6	30.13	+ .30	44	42	—	8	WNW	3	6	4	r, 6	52	43	0.40
	Pembroke (St. Ann's Hd.)	29.74	50	SSW	6	r	30.12	+ .15	48	45	—	1	W	6	6	6	r	51	45	0.28
GERMANY & HOLLAND.	Scilly ...	29.88	52	SSW	6	m	30.28	+ .24	49	45	—	2	W	6	c	5	m	53	45	0.08
	Prawle Point ...	29.99	50	SSW	6	r	30.25	+ .07	45	43	—	4	WNW	6	6	5	p, f	50	42	0.14
	Jersey (St. Aubin's)	30.17	44	SSE	5	0	30.29	+ .01	49	43	+	4	NNW	4	6	4	d, o, m, g	51	43	0.03
	Hurst Castle ...	30.07	47	SSW	7	c	30.19	— .02	44	42	—	3	W	5	6	4	c	47	43	0.04
	Dungeness ...	30.15	44	SW	5	c	30.10	— .15	43	42	—	4	W	4	6	3	c	48	42	0.04
	North Foreland	30.22	45	SW	4	c	30.09	— .19	42	40	—	2	WSW	4	6	3	c, g	47	40	0.02
	London ...	30.08	45	S	3	r	30.12	— .11	41	40	—	2	WSW	3	6	#	6, r	48	40	0.04
	Oxford ...	29.94	46	SW	4	r	30.12	— .07	40	38	—	3	SW	3	6	#	o, r, g	49	40	0.05
	Cambridge ...	30.04	44	SSW	4	r	30.06	— .16	40	38	—	2	SSW	4	6	#	r	48	39	—
	Yarmouth ...	30.07	42	S	5	6	29.97	— .23	41	39	+	3	WSW	4	6	3	6	44	37	0.01
FRANCE AND BELGIUM.	Cuxhaven ...	30.26	29	SW	3	0	30.02	— .24	38	38	—	1	SSW	5	0	#	0	40	38	—
	Berlin ...	30.29	41	SW	1	0	30.20	— .10	35	34	—	2	SW	1	c	#	0	41	36	—
	Wiesbaden ...	30.25	38	SW	3	0	30.25	— .17	38	36	+	5	SW	3	0	#	#	?	36	—
	Munich ...	30.35	33	SE	2	0	30.30	— .09	32	31	—	0	SW	2	0	#	0	34	30	—
	The Helder ...	30.19	41	S	5	c	29.96	— .33	42	41	—	1	SW	6	c	3	c	45	36	0.08
	Brussels (9 a.m.)	30.13	39	SW	5	0	30.06	— .16	46	43	+	4	W	6	6	#	0	46	36	0.04
	Cape Gris Nez	30.32	39	S	2	0	30.25	— .14	39	39	+	2	SSW	2	0	#	0	41	37	0.04
	Brest ...	?	52	SW	4	0	?	?	49	46	—	2	NNW	3	c	3	0	54	36	0.04
	Lorient ...	30.17	51	SSW	5	f	30.36	+ .09	47	43	—	2	WNW	4	6	4	f	51	45	0.08
	Rocheport ...	30.31	42	NNE	3	0	30.31	— .03	48	48	+	13	N	3	r	#	0	?	?	0.16
PENINSULA.	Belfort ...	30.38	39	N	1	0	30.41	+ .01	35	34	—	3	N	1	6	#	0	41	35	—
	Lyons ...	30.21	46	E	1	6	30.18	— .05	44	36	—	1	E	2	6	2	6	55	43	—
	Nice ...	30.30	47	W	3	6	30.33	— .01	53	46	+	11	NNW	4	0	#	6	56	41	—
	Perpignan ...	30.28	50	E	2	m	30.37	+ .07	52	48	+	4	SW	3	0	2	m	57	46	—
	Biarritz ...	30.38	51	NNW	3	c	30.42	+ .04	44	43	—	2	NNE	3	6	#	c	55	43	—
	Corunna ...	30.38	51	NNW	3	c	30.42	+ .04	44	43	—	2	NNE	3	6	#	c	55	43	—
	Lisbon ...	30.38	51	NNW	3	c	30.42	+ .04	44	43	—	2	NNE	3	6	#	c	55	43	—

For Explanation of Columns, see bottom of last page.

† Received too late for insertion in *Chronicle* on next page.



# WEATHER CHARTS

for 8 a.m. on Monday, 25<sup>th</sup> Dec: 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—

— force above 10 — force 8 to 10 —

— force 5 to 7 — force 1 to 4 —

○ = dead calm

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

— Rough — High

## MEAN HEIGHT OF THE BAROMETER

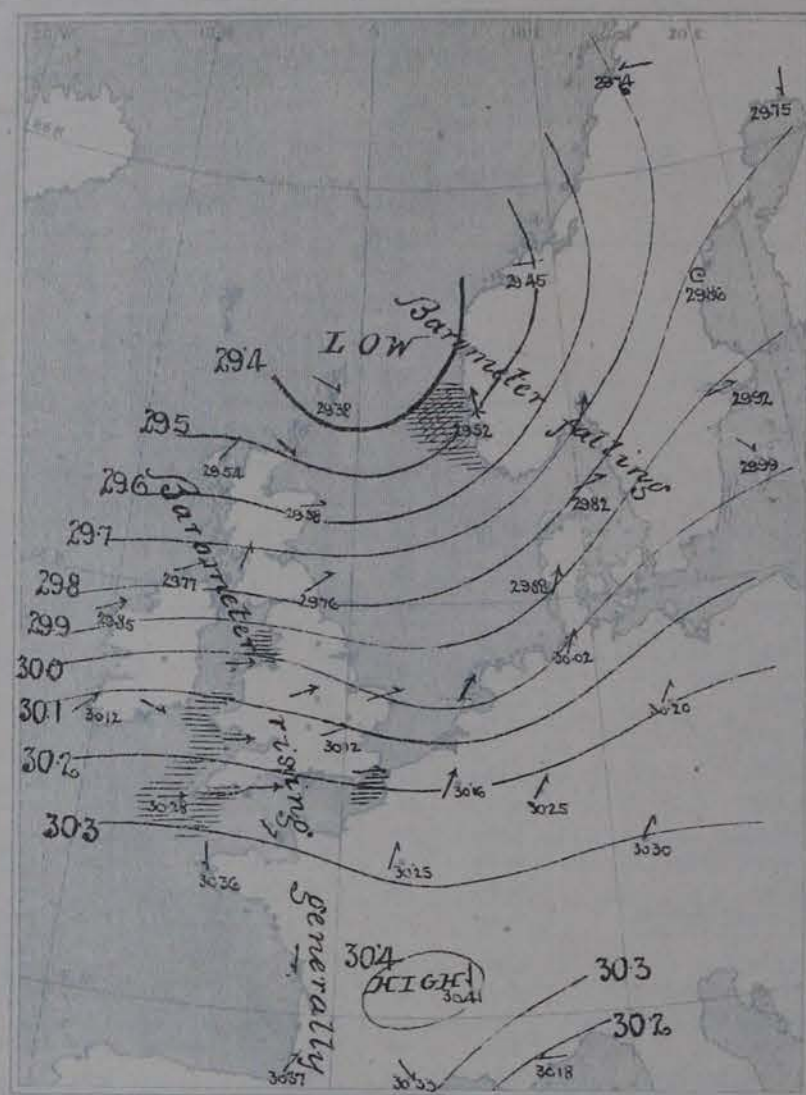
at 800 feet for the month of December.

During the 20 Years 1871-1890.

### STATIONS.

### MEAN READINGS.

STATIONS.	MEAN READINGS.
Swanburgh Head	29.073
Stormway	29.1705
Wick	29.1718
Nairn	29.1742
Aberdeen	29.1767
Leith	29.1807
Shields	29.1817
Spurn Head	29.1873
York	29.1891
Loughborough	29.1921
Ardrossan	29.1930
Mullaghmore	29.1921
Donaghadee	29.1848
Holyhead	29.1879
Liverpool	29.1895
Parsonstown	29.1901
Valencia	29.1905
Roche's Point	29.1912
Pembroke	29.1910
Sally	29.1951
Penrith Point	29.1970
Jersey	29.1985
Hurst Castle	29.1958
Dover	29.1953
LONDON	29.1951
Oxford	29.1955
Cambridge	29.1911
Yarmouth	29.1911



## 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 December.)

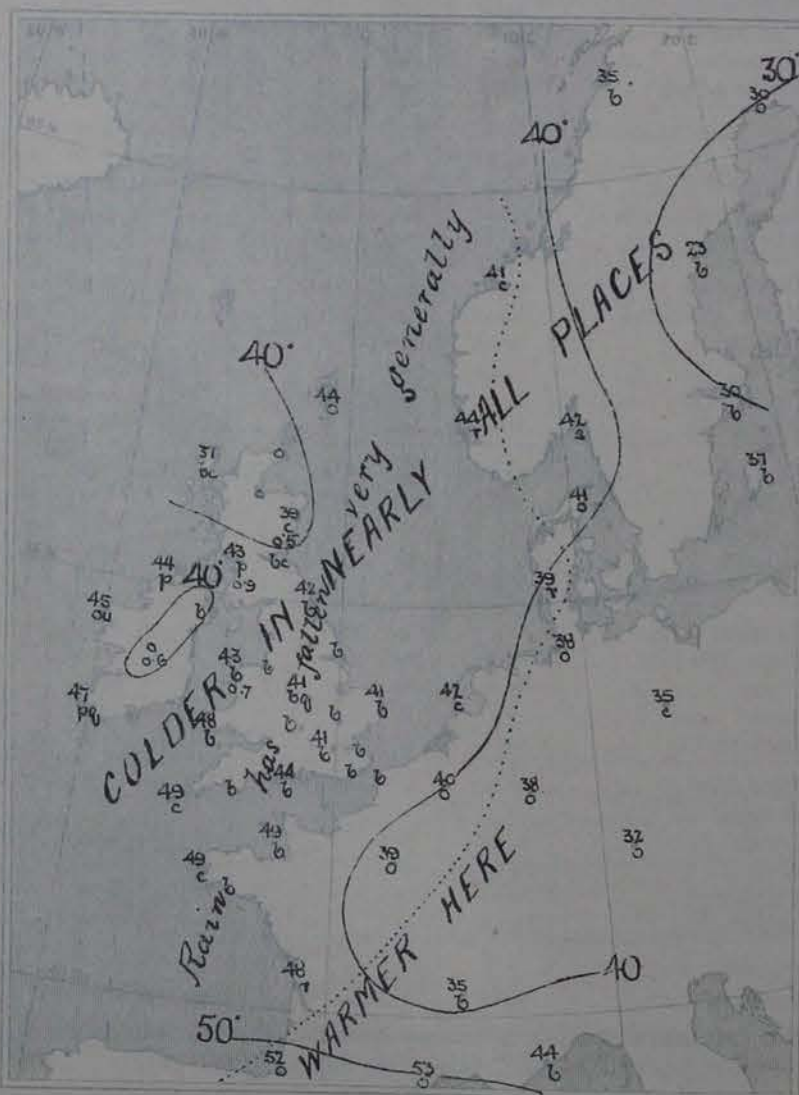
### STATIONS.

### TEMPERATURE

### RAINFALL

STATIONS.	TEMPERATURE				RAINFALL
	Max.	Min.	Day.	Night.	
Swanburgh Head	42.0	35.2	39.0	38.1	4.25
Stormway	42.1	34.2	39.1	38.2	3.00
Wick	42.2	32.7	38.1	36.4	3.10
Nairn	41.9	32.7	37.1	35.6	1.90
Aberdeen	41.9	32.0	36.9	35.2	3.24
Leith	41.0	31.7	36.5	35.0	1.36
Shields	42.9	31.9	36.3	34.0	1.07
Spurn Head	42.4	30.3	36.0	33.7	1.14
York	42.3	30.4	36.1	33.7	1.28
Loughborough	42.7	30.2	36.3	33.4	1.29
Ardrossan	41.6	31.0	36.0	33.7	1.71
Mullaghmore	46.5	37.8	42.2	38.8	4.01
Donaghadee	45.8	36.2	40.2	36.3	2.84
Holyhead	46.9	36.1	42.8	37.1	1.87
Liverpool	43.2	35.6	38.9	35.0	1.39
Parsonstown	41.7	35.1	37.8	35.3	1.04
Valencia	40.7	34.9	37.0	34.4	1.00
Roche's Point	47.0	38.0	42.9	41.3	1.95
Pembroke	46.8	40.3	43.0	42.3	1.00
Sally	46.5	40.4	47.0	45.1	1.02
Penrith Point	47.0	38.2	42.5	41.1	1.26
Jersey	47.3	39.3	43.1	41.4	1.82
Hurst Castle	45.0	36.5	41.6	39.8	2.78
Dover	44.8	35.6	40.8	38.6	3.00
LONDON	44.0	34.0	37.8	36.7	2.10
Oxford	42.0	33.6	37.0	35.0	2.10
Cambridge	42.8	31.0	36.2	35.5	1.88
Yarmouth	41.0	33.7	37.9	37.0	2.06

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, 30.42 in. at Lisbon; 30.41 in. at Lyons; 30.3 in. at Madrid, in an anticyclone covering the whole of the Spanish Peninsula, with the greater part of France included.

Lowest, 29.4 in. and less, in a depression lying between the Shetlands and the Norwegian coasts.

Gradients moderate over our Islands and the North Sea, but slight elsewhere.

Barometer rising over the United Kingdom and also in Sweden, but falling in Norway, Denmark, Germany, and France.

## TEMPERATURE

Highest, 53° at Liverpool, 52° at Biarritz, 49° at Sully, Jersey, and Brest, and 48° at Pembroke and Rochefort.

Lowest, (1) 23° at Helsingfors, 30° at Haparanda and Stockholm, 32° at Munich and 35° at Berlin, Bodo, and Lyons; (2) 36° at Hill and 37° at Tromsø.

During yesterday the thermometer rose to 50° or more at several of our western and northern stations, the highest reading of all being 55° at Narvik.

## WIND

W or SW over our Islands, and strong in force over many parts of our western coasts, with a gale at Balmullet.

Moderate to strong from the SW over Denmark, Germany, and the Netherlands.

E in the west of Norway, but blowing a gale from SSE at Skudenes; variable over the southern parts of France.

## WEATHER

Fine and bright over England, but cloudy in most other parts of Western Europe.

Showers are falling in Ireland and the west of Scotland, and rain and snow in the south of Norway.

Rain fell yesterday in most parts of the United Kingdom, the largest amounts being 0.9 in. at Ardrossan and 0.7 in. at Holyhead.

## SEA

High at Skudenes, and rough on our south-west coasts, as well as at Cape Jis Key.

## PROBABLE CHANGES IN SYSTEM NOW PREVALENT

# FORECASTS

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

## DISTRICTS.

## FORECASTS.

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

None issued

## DISTRICTS.

## FORECASTS.

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

None issued

## WARNINGS

The SOUTH CONE is still flying in districts 0.1. and 6 to 10.

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

The North Cone, point upwards (↑), means that gales, or strong winds, are probable, at first from the Northward (from N.W. round by N. to S.E.). Should it appear likely that a gale beginning from between E. and S.E. is likely to veer towards E. 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 ...	29.97	44	42	SSW	4	0	5	Valencia ...							
Sumburgh Head ...								Scilly ...							
Stornoway ...	29.44	48	48	SW	6	7	6	Jersey ...	30.22	46	44	S	5	c	4
Aberdeen ...								Hurst Castle ...							
Shields ...								Dungeness ...	30.18	44	43	SW	5	c	4
Ardrossan ...								North Foreland ...							
Malin Head ...	29.56	47	46	SSW	1	0	2	London ...							*
Mullaghmore ...								Yarmouth ...							
Belmullet ...	29.62	47	45	SW	2	6	*	Rochefort ...	30.17	48	48	E	3	f	*
Holyhead ...															

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

Weather in morning fine and bright over England, the east of Ireland and the northwest of France, as well as at the Swedish stations and on the shores of the Mediterranean; dull and unsettled elsewhere, with showers of rain in the west of Ireland, rain at St. Petersburg and Warsaw, snow at Moscow; fog prevalent at several stations over southeastern Europe. Rain later over all but the southern parts of the Kingdom and the north of France, smaller quantities in Germany, Algeria, and at Constantinople.

Temperature in morning highest 59° at Malta, 53° at Algiers and Barcelona, 49° at Scilly, 47° at Valencia; 44° at Skudesnaes. Lowest 27° to 30° over Austria and the south of Russia, 30° at Haparanda, 31° at Moscow and Ulsaborg; 33° at Paris, as well as at Aberdeen and Harvi. Raining later to a little above 50° on our own southwestern coasts, to 53° in the southwest of France, and to considerably above 60° over the south of Italy and Algeria. Falling to reach 50° over our islands as a whole, and only touching 42° on our northern coasts.

Wind (1) fresh to strong from the W. over the British Islands (a gale at Belmullet and the mouth of the Mersey); S. and strong on the eastern shores of the North Sea; E. light, in the northwest of Norway; (2) light and anticyclonic over western, central, and eastern Europe; N. and light over the Mediterranean. Veering W. over the North Sea later, and beginning to subside over the western parts of the British Islands, but freshening from NE. over Denmark.

Barometer highest 30.5 ins. and more over Central Spain, and varying from 30.4 ins. to 30.2 ins. over France, Germany, and Central Europe generally. Lowest, 29.4 ins. and less, in a depression having its centre near the Shetlands, and below 29 ins. over the White Sea, below 30.1 ins. over the southern part of Italy and the Grecian Archipelago. Raining over the United Kingdom and west of France later, falling over northern 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.

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, 26<sup>th</sup> December,

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.		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 ...	29.86	25	Z	0	0	29.84	- 11	19	18	- 11	ESE	2	0	#	0	32	?	0.04		
	Hernösand ...	29.80	30	N	2	0	29.82	- 04	31	30	+ 8	Z	0	0	#	0	36	18	0.08		
	Stockholm ...	29.79	36	Z	0	0	29.76	- 16	34	34	+ 4	SE	2	0	#	0	37	28	-		
	Wisby ...	29.84	38	NSW	4	0	29.78	- 21	38	37	+ 1	NW	4	0	#	0	41	36	0.04		
	Bodö ...	29.48	86	ESE	5	bc	29.66	- 08	35	31	0	E	4	0	Z	bc	39	32	-		
	Christiansund...	29.34	45	SSW	4	0	29.80	+ 35	42	40	+ 1	NSW	6	bc	5	0	45	39	-		
	Skudesnaes ...	29.67	43	W	6	0	29.99	+ 47	42	39	- 2	NW	4	c	3	0	45	39	-		
	Christiania Fjord (Færder)	29.58	42	SW	6	b	29.80	+ 01	40	38	- 2	W	5	bc	2	b	42	39	-		
	Skagen (The Seaw)	29.74	41	SW	2	c	29.82	- 00	41	39	0	NW	2	b	0	c	41	36	0.16		
	Fanö ...	29.84	41	W	4	bc	30.03	+ 15	41	39	+ 2	WNW	4	c	#	bc	43	39	0.24		
BRITISH ISLANDS.	Sumburgh Head	29.61	42	WNW	3	b	30.00	+ 62	43	41	- 1	W	1	b	4	c, b	46	38	0.03		
	Stornoway ...	29.72	38	NW	3	c	30.02	+ 48	42	42	+ 5	SW	3	c	3	m, c	42	35	0.05		
	Wick ...	29.67	39	NW	3	bc	30.06	+ 59	39	38	+ 3	NW	3	bc	2	bc	42	35	0.02		
	Nairn ...	29.64	37	Z	0	r	30.10	+ 55	38	37	- 1	SW	1	b	1	r	42	34	0.09		
	Aberdeen ...	29.76	37	SSW	1	bc	30.18	+ 60	39	31	- 6	SW	1	bm	2	bc	42	33	0.04		
	Leith ...	29.88	41	W	5	b	30.23	+ 54	40	39	- 2	NSW	3	bc	#	b	44	38	0.06		
	Shields ...	29.88	42	SW	5	bq	30.28	+ 52	37	36	- 5	SW	2	bmw	2	r, q, b	47	36	0.03		
	Spurn Head ...	29.99	43	NSW	5	0q	30.32	+ 43	40	38	- 2	W	3	b	3	c, q, r	44	38	0.05		
	York ...	29.98	44	NSW	5	b	30.36	+ 45	37	36	- 5	NSW	1	b	#	p, b	47	35	0.11		
	Loughborough	30.09	45	SW	6	r	30.39	+ 38	36	35	- 5	NSW	1	b	#	r	48	34	0.09		
GERMANY & HOLLAND.	Ardrossan ...	29.92	44	NSW	6	b, p	30.22	+ 47	45	45	+ 2	S	3	c	3	bc, q, p	45	39	0.08		
	Malin Head ...	29.96	44	W	6	b, q, p	30.14	+ 37	43	42	- 1	S	4	b	3	b, p	45	40	0.03		
	Mullaghmore ...																				
	Belmullet ...	30.11	46	SE	4	0	30.14	+ 29	48	47	+ 3	SW	4	0	#	0	48	42	0.20		
	Donaghadee ...	30.05	40	NSW	4	b	30.27	+ 38	37	37	- 1	S	3	bc	2	b	47	36	0.04		
	Liverpool (Bidston)	30.08	45	NSW	6	bc	30.37	+ 39	40	39	- 2	W	2	b	2	bc	48	39	0.05		
	Holyhead ...	30.03	46	WNW	6	cp	30.35	+ 35	46	46	+ 3	SW	1	0g	1	cp	44	42	0.04		
	Parsonstown ...	30.17	42	SW	1	b	30.27	+ 25	43	42	+ 4	SE	1	0	#	c, b	44	38	0.14		
	Valencia ...	30.26	49	SW	4	bc	30.27	+ 15	47	46	0	S	4	cp	4	bc	51	46	0.04		
	Roche's Point	30.26	48	W	8	bc	30.34	+ 21	48	47	+ 4	SW	3	b	4	bc, p	51	43	0.05		
FRANCE AND BELGIUM.	Pembroke (St. Ann's Hd.)	30.20	50	W	5	bc	30.37	+ 25	49	48	+ 1	NSW	4	bw	4	bc	50	47	0.03		
	Scilly ...	30.34	50	NSW	5	c	30.41	+ 13	48	48	- 1	SW	4	bcw	5	c	53	44	-		
	Prawle Point ...	30.35	48	W	5	b	30.44	+ 19	47	46	+ 2	W	2	b	1	b	50	43	-		
	Jersey (St. Aubin's)	30.43	48	W	3	bm	30.49	+ 20	47	46	- 2	W	3	bcmw	2	b, bm	53	46	0.01		
	Harst Castle ...	30.32	48	W	5	bc	30.44	+ 25	45	45	+ 1	W	3	adm	3	bc	49	43	-		
	Dungeness ...	30.26	47	W	4	bc	30.37	+ 27	35	35	- 8	NW	2	bw	2	b, bc	49	35	-		
	North Foreland	30.25	43	SW	4	c	30.41	+ 32	40	38	- 2	W	3	b	3	b, c	45	38	-		
	London ...	30.22	45	W	3	c	30.41	+ 29	34	34	- 7	S	1	b, f	#	bc, q, p	46	34	0.02		
	Oxford ...	30.23	47	NW	3	r	30.42	+ 30	36	35	- 4	NSW	1	bm	#	c, r	47	35	0.02		
	Cambridge ...	30.15	44	SSW	5	b	30.41	+ 35	33	33	- 7	SSW	1	b	#	b	48	32	-		
PENINSULA.	Yarmouth ...	30.09	42	NSW	3	c	30.31	+ 34	36	35	- 5	WNW	2	b	#	c	44	34	0.03		
	Cuxhaven ...	29.99	42	SW	4	r	30.10	+ 08	40	39	+ 2	NW	3	r	#	r	43	38	0.28		
	Berlin ...	30.09	38	SW	2	0	30.02	- 18	37	36	+ 2	W	2	r	#	0	41	35	0.08		
	Wiesbaden ...						30.25	- 00	41	38	+ 3	NE	3	c	#	#	41	32	0.08		
	Munich ...	30.34	33	SW	5	#	30.29	- 01	33	32	+ 1	SW	6	c	#	#	34	32	0.12		
	The Helder ...	30.13	44	SW	8	r	30.25	+ 29	45	41	+ 3	WNW	5	b	4	r	45	41	0.08		
	Brussels (9 a.m.)						30.37	+ 21	37	36	- 3	WNW	2	bc	#	c	46	37	0.04		
	Cape Gris Nez	30.22	46	W	6	bc	30.34	+ 28	44	41	- 2	NW	2	bc	2	bc	48	34	0.35		
	Paris ...	30.45	39	W	2	b	30.47	+ 22	42	41	+ 3	W	2	0	#	b	50	35	-		
	Brest ...		50	WNW	2	b			51	48	+ 2	W	1	c	#	b	54	36	-		
FRANCE AND BELGIUM.	Lorient ...	30.49	49	W	4	bc	30.52	+ 16	43	41	- 4	ESE	3	bc	5	bc	48	39	-		
	Rochefort ...	30.47	46	NSW	3	b	30.55	+ 24	37	37	- 11	E	1	b	#	b	50	36	-		
	Belfort ...		40	W	3	0			40	38		W	3	0	#	0	46	36	-		
	Lyons ...	30.48	39	N	1	0	30.55	+ 14	35	33	0	NW	2	b	#	0	41	34	-		
	Nice ...	30.19	46	E	1	b	30.19	+ 01	46	37	+ 2	Z	0	b	2	b	55	41	-		
	Perpignan ...	30.36	55	NW	4	b	30.42	+ 09	48	42	- 5	NW	4	b	#	b	59	46	-		
	Biarritz ...	30.49	53	E	3	f	30.50	+ 13	37	37	- 15	E	4	m	5	f	59	36	0.08		
	Corunna ...																				
	Lisbon ...	30.40	51	NNE	4	b	30.41	- 01	44	42	0	NNE	4	b	#	b	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, 26<sup>th</sup> Dec: 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

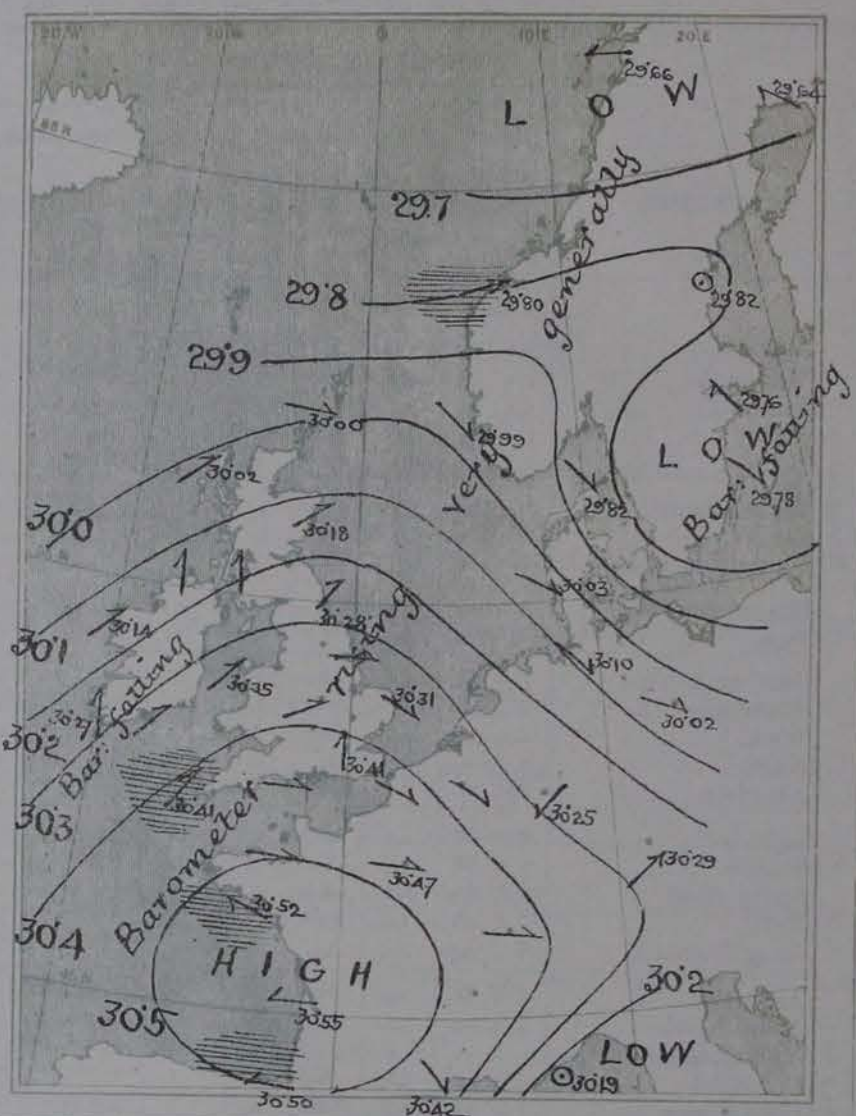
at 8.0 a.m. for the month of December.

During the 20 Years 1871–1890.

### STATIONS.

### MEAN READINGS.

STATIONS.	MEAN READINGS.
Sumburgh Head	29.073
Stornoway	29.705
Wick	29.718
Nairn	29.743
Aberdeen	29.767
Leith	29.807
Shields	29.845
Spain Head	29.873
York	29.890
Loughborough	29.924
Ardrossan	29.830
Mullaghmore	29.821
Donaghadee	29.848
Holyhead	29.879
Liverpool	29.895
Parsonstown	29.901
Valencia	29.905
Roche's Point	29.912
Pembroke	29.916
Silly	29.951
Pravle Point	29.970
Jersey	29.985
Hurst Castle	29.998
Dover	29.999
LONDON	29.994
Oxford	29.955
Cambridge	29.911
Yarmouth	29.910



## 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.

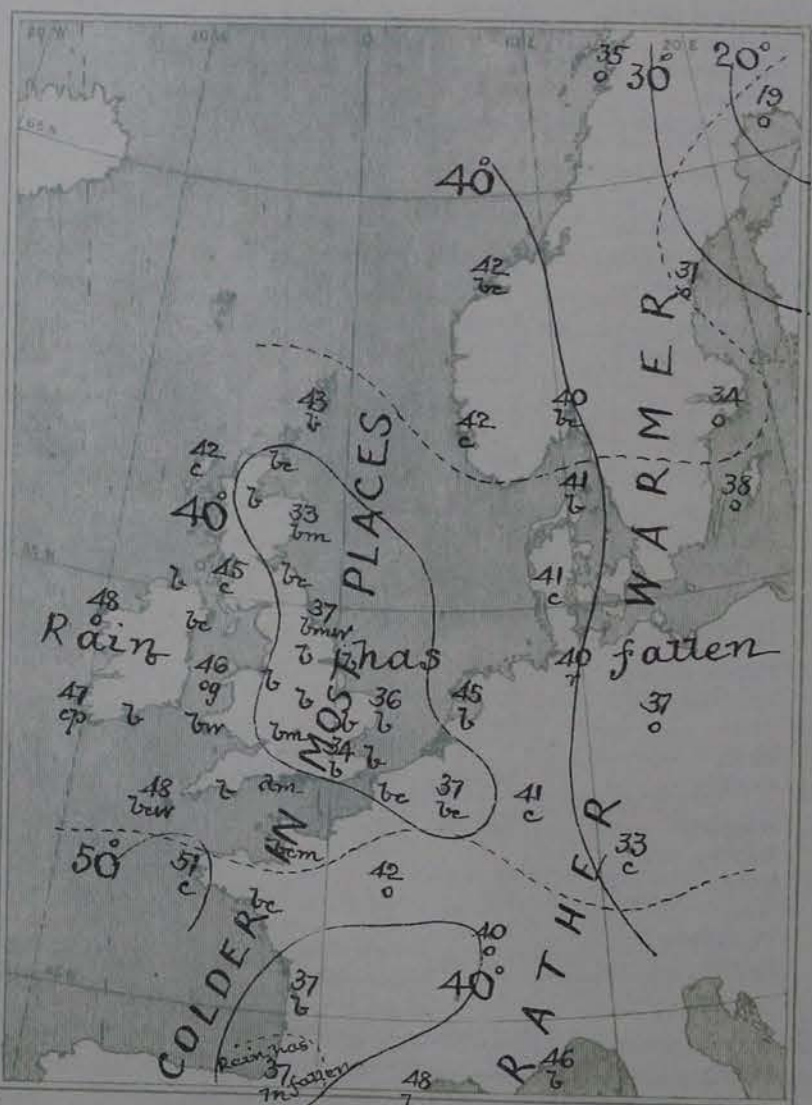
**RAINFALL**—A dotted line separates the districts in which rain has fallen from those where there has been none. Falls of 0.1 in. or more are quoted in figures.

### MEANS OF TEMPERATURE IN SHADE, AND RAINFALL

(For the month of December.)

STATIONS.	TEMPERATURE.				RAINFALL (Inches.)
	Daily Max.	Daily Min.	At 8 a.m.	At 8 p.m.	
Sumburgh Head	42.0	35.2	39.0	38.1	4.25
Stornoway	43.1	34.2	39.1	38.5	5.03
Wick	42.2	32.7	38.1	38.8	3.10
Nairn	41.9	32.8	37.1	35.0	1.95
Aberdeen	41.9	32.6	36.9	35.2	3.24
Leith	44.0	33.7	38.5	37.0	1.80
Shields	42.9	33.9	38.3	36.9	2.97
Spain Head	42.4	35.3	38.8	37.7	9.14
York	42.3	32.3	36.4	35.4	2.28
Loughborough	42.7	32.2	36.3	35.4	2.24
Ardrossan	44.5	35.9	40.0	38.7	3.73
Mullaghmore	40.5	37.8	42.2	39.8	4.51
Donaghadee	45.8	36.2	40.2	39.3	2.84
Holyhead	40.4	39.1	42.8	41.1	3.82
Liverpool	43.5	35.0	38.8	37.1	2.59
Parsonstown	44.7	33.1	37.8	36.0	3.01
Valencia	49.7	40.0	41.6	42.4	5.99
Roche's Point	47.9	38.9	42.9	41.5	4.95
Pembroke	46.8	40.3	43.0	42.2	3.89
Silly	49.5	43.4	47.0	45.4	4.02
Pravle Point	47.0	38.2	42.5	41.1	3.70
Jersey	47.3	39.3	43.1	41.4	3.82
Hurst Castle	45.0	36.3	40.6	39.8	2.78
Dover	44.3	35.0	39.8	38.0	3.00
LONDON	44.0	33.9	37.8	36.7	2.10
Oxford	42.0	33.5	37.0	35.9	2.10
Cambridge	42.8	31.6	36.2	35.5	1.88
Yarmouth	41.0	33.7	37.9	37.0	2.06

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 more to 30.4 ins: in an anticyclone covering France and the south of our Islands, and exceeding 30.0 ins: in a ridge extending thence in a northerly direction over the whole of our Islands.  
 Lowest, 29.7 ins: and less, over Lapland, and below 29.8 ins: in a secondary over the south of Sweden.  
 Gradients slight. Barometer rising over France and England, but has begun to fall again in the west of Ireland.

## TEMPERATURE

Highest, 47° to 49° on our extreme southern coasts, and exceeding 50° at the coast stations in the west and north generally.  
 Lowest, (1) 19° at Haparanda, 31° at Helsingfors, 34° at Stockholm; (2) 33° at Munich and Cambridge, 36° at Oxford and Loughborough.  
 The maxima recorded yesterday exceeded 50° at our southern stations and in the west of France, but were below that value over our Islands as a whole.

## WIND

Moderate from the NW<sup>2</sup> over the North Sea, light from between W. and S. over Great Britain, freshening from the S<sup>2</sup> in Ireland.  
 Over the Bay of Biscay it is light from E. and at Lisbon N<sup>2</sup>.

## WEATHER

Rainy over Germany, fair over France, very fine over Great Britain (but with dry fog in places); dull, unsettled, and becoming rainy again in the west of Ireland.  
 The conditions have been very changeable from fine to showery and vice versa over the greater part of our Islands and Western Europe, but the amounts of rain have been small.

## SEA

Moderate, and inclined to rise in the far west; slight or smooth elsewhere.

## PROBABLE CHANGES IN SYSTEM NOW PREVALENT

The anticyclonic system is apparently moving eastwards, and new depressions are beginning to affect our extreme western stations.

# FORECASTS

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

## DISTRICTS.

## FORECASTS.

† 0	SCOTLAND NORTH	S <sup>2</sup> winds, increasing; fair to rainy and squally.
1	SCOTLAND EAST	{ SW <sup>2</sup> and S <sup>2</sup> winds, freshening; fine to unsettled and rainy.
2	ENGLAND N.E.	
3	ENGLAND EAST	{ SW <sup>2</sup> breezes, light; fine - then more S <sup>2</sup> ; unsettled, perhaps rainy.
4	MIDLAND COUNTIES	
5	ENGLAND SOUTH	

## DISTRICTS.

## FORECASTS.

† 5	SCOTLAND WEST	{ S <sup>2</sup> gales and strong winds; mild, rainy, unsettled.
7	ENGLAND N.W.	
8	ENGLAND S.W.	Same as N <sup>o</sup> 0.
† 9	IRELAND NORTH	{ Same as N <sup>o</sup> 6 & 7.
† 10	IRELAND SOUTH	

## WARNINGS

At 10.20 am to districts 0, 6, 9, and 10  
 "Hoist South Cone again."

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 ...	29.47	43	41	WSW	8	r	5	Valencia ...							
Sumburgh Head	29.48	42	40	WNW	2	c	4	Scilly ...							
Stornoway ...	29.59	40	40	Z	0	m	3	Jersey ...	30.39	52	47	W	4	bm	4
Aberdeen ...								Hurst Castle							
Shields ...								Dungeness...	30.26	47	43	W	4	6	3
Ardrossan ...	29.79	44	43	WSW	5	bcyp	4	North Foreland...	30.24	45	42	WNW	4	5	3
Malin Head ...	29.79	44	42	W	7	6	4	London ...							*
Mullaghmore								Yarmouth ...							*
Belmullet ...	29.90	47	45	W	8	0	*	Rochefort ...	30.37	48	46	W	3	6	*
Holyhead ...															

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

Continental Information not received.

### SUMMARY OF CHANGES IN THE WEATHER OVER THE BRITISH ISLANDS AND THEIR NEIGHBOURHOOD FROM DEC<sup>r</sup> 18<sup>th</sup> TO 23<sup>rd</sup> 1893.

The weather of last week was again very stormy and unsettled, with frequent falls of rain in nearly all parts of the Kingdom.

During the earlier part of the period the barometer was highest to the eastward and southward of our Islands, and lowest in a series of depressions which skirted our extreme western and northern coasts. The prevailing winds were therefore S<sup>W</sup>, and on the 18<sup>th</sup> and 19<sup>th</sup> they increased to a gale in all parts of the United Kingdom as well as in the neighbouring parts of the Continent, with heavy rain at some of our southwestern stations. On the night of the 19<sup>th</sup> when one of the primary low-pressure systems was passing away to the northward of Scotland a well developed secondary disturbance advanced rapidly over our Islands from the southward, and in the course of the following day the barometer fell to 28.6 ins. in many parts of England; strong gales from the S<sup>W</sup> or SW<sup>W</sup> being experienced on our south and southeast coasts.

After the 20<sup>th</sup> the highest pressures were found over Spain and the south of France. A rather deep depression skirted the Scotch coasts on the 22<sup>nd</sup> and occasioned strong winds or moderate gales from the SW<sup>W</sup> over the Kingdom generally, and at the close of the week there were indications of the advance of further low-pressure systems from the westward.

Temperature has fluctuated considerably, the day readings being as a rule high for the time of year but the nights cold, with sharp frosts on one or two occasions over the central parts of Great Britain.

#### 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, 27<sup>th</sup> DECEMBER, 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.		Dirac.	Force (0 to 12).	Reading at 32° F. and Sea Level.	Change since Yester- day Mora.	Dry Bulb.	Wet Bulb.	Change in dry since Yesterday.			Dirac.	Force (0 to 12).		Max.	Min.	
		Inch.	°				Inch.											Inch.			
SCANDINAVIA.	Haparanda ...	30.38	38	E	2	0	30.34	+50	10	9	-9	0	2	0	#	0	28	2	—		
	Hernösand ...	30.26	29	2	0	0	30.27	+55	31	30	0	2	0	0	#	0	24	28	0.04		
	Stockholm ...	30.16	32	N/E	2	C	30.40	+64	29	28	-6	2	0	0	#	C	36	28	—		
	Wisby ...	30.06	38	N	4	0	30.32	+54	34	33	-4	ESE	4	0	#	0	29	34	0.04		
	Bodo ...	29.89	37	E	4	0	29.79	+13	35	31	0	E	4	C	2	0	37	32	0.04		
	Christiansund...	30.24	40	S	1	b	30.22	+42	41	35	-1	ESE	4	0	4	b	43	37	—		
	Skudesnaes ...	30.30	37	ESE	1	b	30.38	+53	41	37	-1	ESE	4	0	3	C. b	43	36	—		
	Christiania Fjord (Fjorder)	30.12	40	NNW	4	bc	30.42	+62	35	34	-5	NNW	2	0	2	bc	41	34	—		
	Skagen (The Seaw)	30.22	40	NE	2	C	30.40	+58	35	34	-6	E	1	C	0	C	42	34	—		
	Fanö ...	30.25	38	NW	2	b	30.38	+55	35	32	-8	NE	1	0	#	b	42	32	—		
BRITISH ISLANDS.	Sumburgh Head	30.08	44	S	2	b	29.99	-01	45	44	+2	SW	2	0	4	bc. b	46	37	—		
	Stornoway ...	29.91	48	SW	1	0	29.92	-10	48	48	+6	SW	7	0	6	0	48	40	0.10		
	Wick ...	30.08	43	S	4	C	30.00	-06	47	46	+8	S	4	0	3	C	47	36	—		
	Nairn ...	30.07	45	W	1	bc	30.02	-08	48	46	+10	2	0	C	1	bc	48	36	—		
	Aberdeen ...	30.19	40	S	2	bc	30.18	00	44	42	+11	S	2	0	3	bc. bc	44	33	—		
	Leith ...	30.23	44	SW	2	0	30.17	-06	46	44	+6	2	0	0	#	0	47	39	—		
	Shields ...	30.29	42	SW	1	m	30.30	+02	41	40	+4	SW	2	0	2	bc. m	45	36	—		
	Spurn Head ...	30.35	39	SW	1	bc. m	30.36	+04	41	40	+1	SW	2	0	2	bc. m. C	43	38	—		
	York ...	30.36	39	SW	1	b	30.36	00	39	38	+2	SE	1	0	#	b	40	34	—		
	Loughborough	30.40	40	SW	1	bc	30.40	+01	41	40	+5	S	1	0	#	bc	42	33	—		
GERMANY & HOLLAND.	Ardrossan ...	30.22	47	S	3	0	30.18	-07	47	46	+2	S	3	0	3	0	47	44	—		
	Malin Head ...	30.08	46	S	5	0	30.02	-12	48	48	+5	S	5	0	3	0. 0	48	43	0.01		
	Mullaghmore ...	30.05	48	S	7	0	30.04	-10	49	48	+1	S	4	0	#	bc. m	49	47	0.15		
	Belmullet ...	30.24	47	SW	4	0	30.17	-10	47	47	+10	SW	6	0	4	0	47	37	0.02		
	Donaghadee ...	30.24	47	SW	4	0	30.17	-10	47	47	+10	SW	6	0	4	0	47	37	0.02		
	Liverpool (Bdston)	30.26	45	SW	2	b	30.32	-05	42	40	+2	SE	2	C	2	b	48	38	—		
	Holyhead ...	30.28	46	SW	1	T	30.25	-10	46	46	0	S	3	T	2	b. T	49	45	0.03		
	Parsonstown ...	30.20	45	S	1	0	30.12	-14	49	48	+6	SW	1	0	#	0	50	41	—		
	Valencia ...	30.17	43	SE	4	Tmg	30.10	-17	51	51	+4	SE	4	Tmg	4	0	51	46	0.02		
	Roche's Point	30.26	50	SW	5	0	30.21	-13	50	50	+2	SW	5	T	4	0	51	48	0.10		
FRANCE AND BELGIUM.	Pembroke (St. Ann's Hd.)	30.24	47	SW	3	C	30.29	-08	49	49	0	S	4	C	5	C	53	47	—		
	Scilly ...	30.36	53	S	4	C	30.37	-14	50	50	+2	S	4	C	4	C	53	46	—		
	Prawle Point ...	30.44	46	SW	2	b	30.38	-06	48	47	+1	S	3	0	2	b. C	52	45	0.02		
	Jersey (St. Aubin's)	30.48	46	SW	2	bc. m	30.46	-03	50	50	-8	SW	2	0	2	bc. m	52	36	0.01		
	Hurst Castle ...	30.44	46	SW	1	bc	30.42	-02	45	44	0	SE	1	0	2	bc. m	51	38	0.01		
	Dungeness ...	30.43	45	SW	2	bc	30.43	+06	36	36	+1	NNW	1	0	1	b. bc	51	34	—		
	North Foreland	30.45	43	W	2	bc	30.44	+03	41	40	+1	W	2	0	3	b. bc	44	38	0.01		
	London ...	30.45	44	SW	1	0	30.44	+03	36	36	+2	2	0	0	#	b. 0. b	47	33	0.01		
	Oxford ...	30.43	44	SW	1	bc	30.43	+01	41	40	+5	SE	2	0	#	bc. f	45	36	0.01		
	Cambridge ...	30.43	42	SW	1	0	30.43	+02	38	38	+5	SW	1	0	#	0	46	32	—		
PENINSULA.	Yarmouth ...	30.37	38	SW	2	bc. w	30.39	+08	38	37	+2	NNW	2	0	3	bc. w	42	34	—		
	Cuxhaven ...	30.24	35	NW	2	0	30.40	+20	37	34	-3	NNE	2	0	#	0	41	35	0.04		
	Berlin ...	30.13	39	NNW	4	0	30.25	+23	37	36	0	NW	3	0	#	0	41	37	0.12		
	Wiesbaden ...	30.32	38	W	6	0	30.30	+14	37	36	-4	NW	2	0	#	0	43	37	0.04		
	Munich ...	30.32	38	W	6	0	30.34	+05	32	32	-1	NW	2	0	#	0	36	30	0.08		
	The Helder ...	30.43	43	NW	1	b	30.48	+20	38	37	-7	SW	1	0	1	b	45	37	—		
	Brussels (O.A.M.)	30.37	43	NW	1	bc	30.48	+11	29	29	-8	SW	1	0	#	b	43	29	—		
	Cape Gris Nez	30.48	43	2	0	0	30.36	+22	44	44	0	W	1	0	1	bc	48	39	—		
	Paris ...	30.48	43	2	0	0	30.46	-01	39	39	-8	NW	1	0	#	0	47	39	—		
	Brest ...	30.48	43	2	0	C	30.46	-01	39	39	-8	ESE	3	C	4	C	53	43	—		
FRANCE AND BELGIUM.	Lorient ...	30.48	43	SE	3	C	30.43	-09	41	41	-2	ESE	4	C	3	C	62	37	—		
	Rochefort ...	30.43	40	E	1	b	30.44	-11	36	35	-1	ESE	3	0	#	b	50	32	—		
	Belfort ...	30.43	37	W	2	f	30.43	-12	32	30	-8	W	2	0	#	f	42	35	—		
	Lyons ...	30.48	41	NNW	2	0	30.43	-12	35	33	0	W	2	0	#	0	45	34	—		
	Nice ...	30.12	48	E	2	b	30.15	-04	41	34	-5	E	1	0	2	b	53	39	—		
	Perpignan ...	30.34	50	N	2	b	30.27	-15	49	40	+1	NW	3	0	#	b	53	43	—		
	Biarritz ...	30.36	42	E	2	m	30.36	-05	40	42	-1	NNE	4	0	#	0	54	40	—		
	Corunna ...	30.37	49	NNE	4	0	30.36	-05	40	42	-1	NNE	4	0	#	0	54	40	—		
	Lisbon ...	30.37	49	NNE	4	0	30.36	-05	40	42	-1	NNE	4	0	#	0	54	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, 27<sup>th</sup> Dec: 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 5 to 10.

→ forces 5 to 7 → forces 1 to 4.

→ light calm.

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

— Rough — High.

### MEAN HEIGHT OF THE BAROMETER

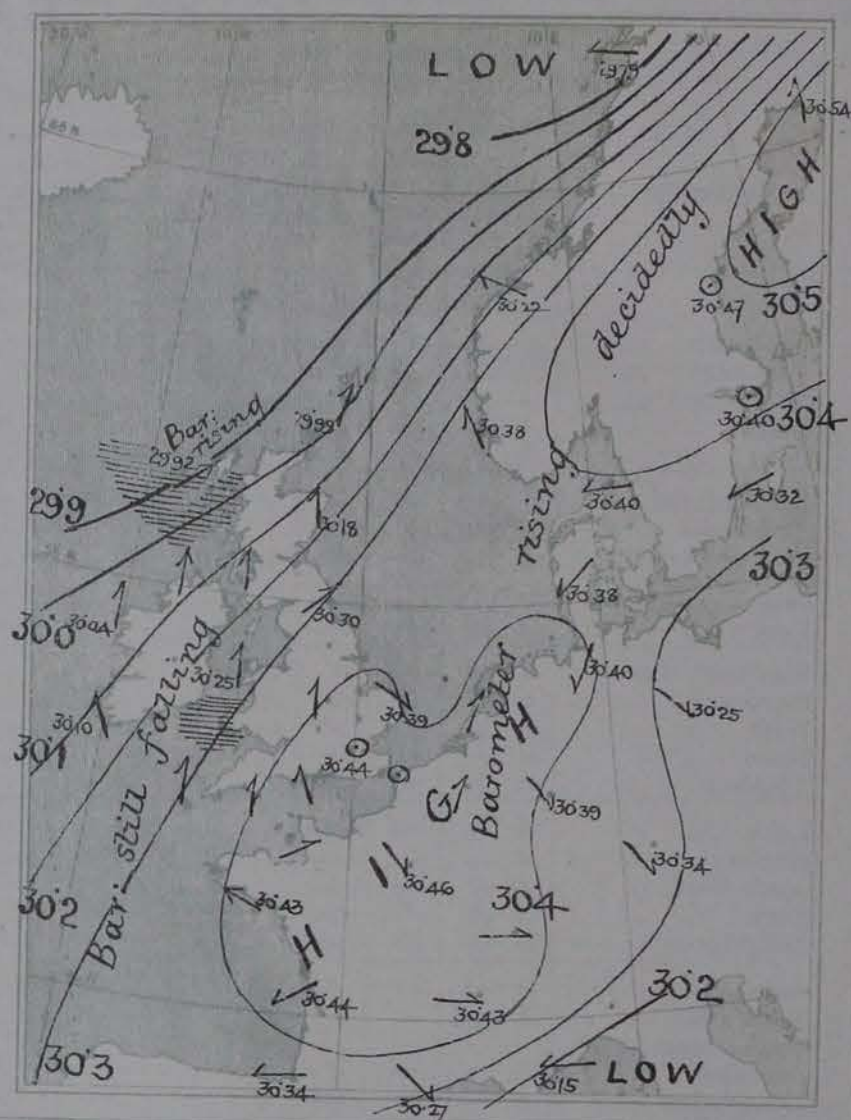
at 8.0 a.m. for the month of December.

During the 20 Years 1871—1890.

#### STATIONS.

#### MEAN READINGS.

STATIONS.	MEAN READINGS.
Sumburgh Head	29.673
Stormway	29.705
Wick	29.718
Nairn	29.743
Aberdeen	29.767
Leith	29.807
Shields	29.845
Spurn Head	29.873
York	29.886
Loughborough	29.924
Androsan	29.920
Mullaghmore	29.821
Donaghadee	29.848
Holyhead	29.879
Liverpool	29.885
Parsonstown	29.901
Valencia	29.905
Roche's Point	29.912
Pembroke	29.916
Sally	29.951
Prawle Point	29.970
Jersey	29.985
Hurst Castle	29.958
Dover	29.953
LONDON	29.954
Oxford	29.955
Cambridge	29.941
Yarmouth	29.916



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

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

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

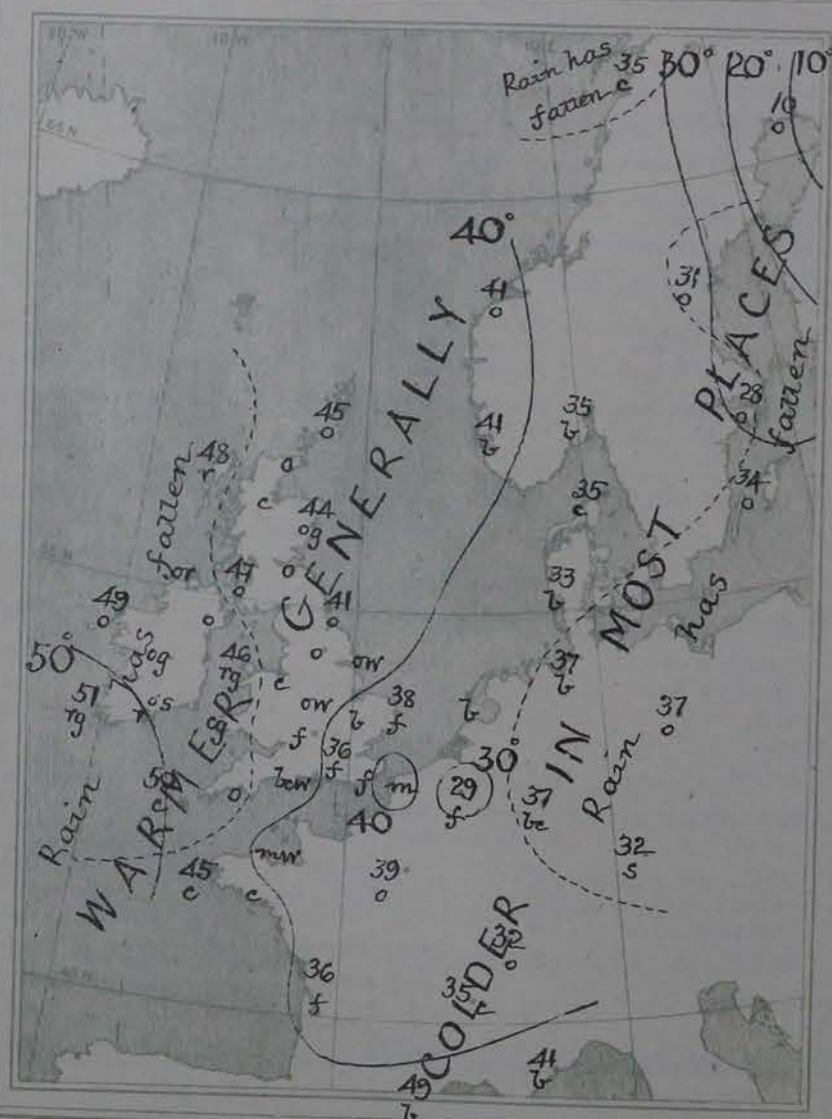
**RAINFALL**—A dotted line separates the districts in which rain has fallen from those where there has been none. Falls of 0.5 in. or more are quoted in figures.

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

(For the month of December.)

STATIONS.	TEMPERATURE				RAINFALL (inches.)
	Daily Max.	Daily Min.	Dry. at 8 a.m.	Wet.	
Sumburgh Head	42.6	35.2	30.0	38.1	1.25
Stormway	43.1	34.2	30.1	38.5	5.03
Wick	42.2	32.1	30.1	36.8	3.10
Nairn	41.9	32.8	31.1	38.6	1.95
Aberdeen	41.9	32.6	30.9	35.2	3.24
Leith	44.0	33.7	35.5	37.0	1.86
Shields	42.9	33.9	38.3	36.9	2.57
Spurn Head	42.4	35.8	38.8	37.7	2.14
York	42.3	32.3	36.4	35.4	2.28
Loughborough	42.7	32.2	36.3	35.4	2.24
Androsan	44.5	33.9	40.0	38.7	1.75
Mullaghmore	46.5	37.8	42.2	39.8	4.51
Donaghadee	45.8	36.2	40.2	39.8	2.84
Holyhead	46.4	38.1	42.8	41.1	3.82
Liverpool	43.5	35.6	38.8	37.1	2.50
Parsonstown	44.7	33.1	37.8	36.6	3.04
Valencia	40.7	40.0	41.6	42.4	5.09
Roche's Point	47.9	38.9	42.0	41.5	4.05
Pembroke	46.8	40.3	43.6	42.2	3.99
Sally	40.5	43.4	47.0	45.1	4.02
Prawle Point	47.0	38.2	42.5	41.1	3.76
Jersey	47.3	39.3	43.1	41.4	3.82
Hurst Castle	45.6	36.3	40.6	39.8	2.78
Dover	44.3	35.9	39.8	38.6	3.00
LONDON	44.0	33.0	37.8	36.7	2.10
Oxford	42.0	33.3	37.0	35.9	2.10
Cambridge	42.8	31.6	36.2	35.5	1.88
Yarmouth	41.9	33.7	37.9	37.0	2.60

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: to 30.3 ins: in a broad band stretching from Iceland and Sweden across Denmark and the North Sea to England, France, the Bay of Biscay and Spain.  
Lowest, Below 29.8 ins: over Denmark, and below 30.0 ins: over the northwest of Scotland.

Gradients somewhat steep in the west and north, slight in the south and east.

Baromet. falling in the west, most at Valence, rising over Germany, Sweden, and Denmark.

## TEMPERATURE

Highest, 50° to 53° on our extreme southwestern coasts, and above 40° in almost all parts of our Islands, Brittany and the coast of Norway.

Lowest, (1) 10° at Haparanda, 28° at Stockholm, 33° at Leno; (2) 36° in London and at Dungeness; (3) 29° at Brussels, 32° at Belfast and Munich.

The maxima exceeded 50° on our southwestern coasts yesterday, and were as high as 57° at Brest and 62° at Lorient.

## WIND

S<sup>W</sup> over nearly the whole of the United Kingdom — moderate to strong in the west and northwest, and blowing gale at Stornoway.  
E over the Bay of Biscay; NE at Lisbon.

Anticyclonic air and calms prevail over the southeast of England and eastern shores of the North Sea.

## WEATHER

Fair over the Continent and southeast of England and the North Sea, but foggy in places; cloudy and unsettled in Scotland and Ireland, with rain in several places.

A little rainfall was measured in the west, none in the east; the small measurements in the southeast result from heavy drizzle or wet fogs.

## SEA

Moderate in the west. (rough in the Minch) slight to smooth in the east and south.

## PROBABLE CHANGES IN SYSTEM NOW PREVALENT

The Southerly wind seems likely to become strong to a gale in the west and north, as depressions skirt our northwestern coasts in a northerly direction, but very little wind is likely in the southeast and east.

# FORECASTS

For the 24 hours ending at NOON on 28<sup>th</sup> DEC<sup>r</sup> 1893.

## DISTRICTS.

## FORECASTS.

0	SCOTLAND NORTH	} S <sup>W</sup> winds, strong to a gale; rainy, mild.
1	SCOTLAND EAST	
2	ENGLAND N.E.	} S <sup>W</sup> winds, freshening somewhat; mild, fine to rainy.
3	ENGLAND EAST	
4	MIDLAND COUNTIES	
5	ENGLAND SOUTH	

## DISTRICTS.

## FORECASTS.

2	SCOTLAND WEST	} Same as N <sup>o</sup> 0 and 1.
7	ENGLAND N.W.	
8	ENGLAND S.W.	} S <sup>W</sup> winds, freshening considerably; drizzle, rainy.
9	IRELAND NORTH	
10	IRELAND SOUTH	} Same as N <sup>o</sup> 0 and 1.

## WARNINGS

The SOUTH CONE is still flying in districts 0.1.6.7.9 and 10.

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



# YESTERDAY'S 2 P.M. REPORTS.

	BAR.	THER.		WIND.	F.	WEA.	SEA.		BAR.	THER.		WIND.	F.	WEA.	SEA.
		Dry.	Wet.	Dirac.						Dry.	Wet.	Dirac.			
Skudesnaes ...	30.20	40	41	NW	1	C	3	Valencia ...	30.20	50	49	SE	5	om	4
Sumburgh Head ...	30.08	44	42	SW	2	bc	4	Scilly ...	30.41	50	46	SW	5	C	3
Stornoway ...	29.98	40	47	SW	7	o	6	Jersey ...	30.50	52	50	SW	5	bm	3
Aberdeen ...	30.21	49	37	SW	1	bm	1	Hurst Castle ...	30.45	49	40	WN	2	cm	2
Shields ...	30.30	45	42	SW	2	bm	2	Dungeness ...	30.43	49	45	NW	2	b	1
Ardrossan ...	30.23	47	45	S	0	o	3	North Foreland ...	30.44	44	42	W	5	b	3
Mahn Head ...	30.12	46	44	S	4	og	3	London ...	30.48	47	44	W	1	bm	3
Mullaghmore ...	30.08	49	47	S	6	bc	3	Yarmouth ...	30.37	42	40	WN	2	bm	3
Belmullet ...	30.08	49	47	S	6	bc	3	Rochefort ...	30.51	44	40	SE	1	b	3
Holyhead ...	30.23	49	40	SW	2	b	2								

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

Weather in morning fine and bright over nearly the whole of the British Islands, the Channel, the greater part of France, together with Spain, the Mediterranean and Adriatic. Changeable and unsettled over northern Europe, with rain at Riga and Moscow; slight showers at Valencia. Rain later at our western stations generally (0.5 in. at Valencia), and smaller quantities over Germany— heavy dew and wet fog over the south and east of England.

Temperature changing little and irregularly over Western Europe, falling fast in the far north. Morning readings exceeding 50° at Malta, some Algerian stations, and Brest only; exceeding 40° on the western and southern coasts of our Islands, the northwest and north of France, and the west of Norway. Lowest (1) 7° at Archangel, 19° at Haparanda, 28° at Skellingfors; (2) 23° to 33° over the south of Russia; (3) 28° at Simoy, 33° at Tverin; (4) 33° at Cambridge, 36° at Yarmouth, Loughbrough, and Oxford. Rising later to between 50° and 53° on our west and south coasts, 57° at Brest, and to 62° at Lorient; not quite touching 60° in the Riviera.

Wind light and anticyclonic over France; W<sup>1</sup> to S<sup>3</sup> over the United Kingdom, but moderate in force; NW<sup>1</sup> on the eastern shores of the North Sea, W<sup>1</sup> over North Germany, variable but mainly S<sup>3</sup> over the Baltic and Gulf of Bothnia. Becoming strong to a gale in the extreme west and northwest of our Islands later, very little change elsewhere.

Barometer highest 30.5 ins. and more to 30.3 ins. over France, Spain, the Bay of Biscay and England. Lowest 29.7 ins. and less, over the northwest of Norway, 29.8 ins. and less, over the southern parts of Sweden and also over Central Russia; below 30.2 ins. over Sardinia, Corsica, Italy, and the Riviera. Falling in the west of our Islands later, but rising decidedly over Northern 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 8 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, 28<sup>th</sup> December, 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.	Force (0 to 12).				Max.	Min.				
		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 ...	30.40	19	SSW	2	0	30.17	- .37	29	28	+ 19	SW	4	0	#	?	7			
	Hernösand ...	30.48	31	Z	0	0	30.41	- .06	29	29	- 2	Z	0	r	#	32	28			
	Stockholm ...	30.58	26	N	2	f	30.56	+ .16	27	27	- 1	WSW	2	0	#	34	23			
	Wisby ...	30.56	27	ESE	4	b	30.43	+ .11	26	25	- 8	SSW	4	0	#	37	25			
	Bodö ...	30.10	45	S	4	0	30.15	+ .36	42	39	+ 7	WSW	6	bc	3	45	32	0.20		
	Christiansund...	30.24	41	Z	0	0	30.42	+ .20	42	41	+ 1	SW	2	C	4	43	41	0.04		
	Skudesnaes ...	30.45	42	SSE	6	0	30.50	+ .12	43	43	+ 2	SSE	1	S	4	43	41			
	Christiania Fjord (Færd)	30.54	35	SSE	2	0	30.49	+ .07	37	36	+ 2	W	4	C	2	37	35			
	Skagen (The Scaw)	30.57	33	SE	1	C	30.60	+ .20	35	34	0	WSW	1	U	0	37	30			
	Fanö ...	30.52	32	Z	0	0	?	?	31	31	- 2	E	2	0	#	30	30			
BRITISH ISLANDS.	Sumburgh Head	30.11	46	SW	1	r	30.35	+ .36	41	40	- 4	NE	1	U	4	47	38	0.30		
	Stornoway ...	30.11	48	SW	4	r	30.32	+ .40	43	43	+ 5	Z	0	f	3	44	38	0.08		
	Wick ...	30.13	43	S	3	0	30.37	+ .37	45	45	- 2	SE	2	0	2	47	40	0.05		
	Nairn ...	30.15	49	Z	0	r	30.36	+ .34	38	38	- 10	Z	0	0	1	52	36	0.05		
	Aberdeen ...	30.24	45	SSW	2	0	30.40	+ .22	42	41	- 2	W	1	ogm	2	47	42	0.06		
	Leith ...	30.24	48	Z	0	0	30.38	+ .21	46	46	0	Z	0	um	#	50	45	0.13		
	Shields ...	30.31	45	SSW	3	C	30.46	+ .16	44	43	+ 3	SSW	1	m	2	45	40			
	Spurn Head ...	30.40	42	S	3	bw	30.51	+ .15	41	40	0	SW	2	bw	2	43	39			
	York ...	30.38	44	S	1	0	30.52	+ .16	42	41	+ 3	S	1	C	#	45	38			
	Loughborough	30.42	44	SSW	3	C	30.53	+ .13	42	41	+ 1	SSW	1	ogm	#	47	41			
GERMANY & HOLLAND.	Ardrossan ...	30.21	47	S	3	r	30.38	+ .23	47	47	0	S	3	C	3	47	46	0.44		
	Malin Head ...	30.18	47	SSW	1	OT	30.32	+ .30	48	47	0	S	3	0	1	49	47	0.31		
	Mullaghmore ...	30.19	49	S	1	og	30.33	+ .29	49	48	0	E	2	0	#	50	47	0.20		
	Belmullet ...	30.25	49	SSW	5	r	30.40	+ .23	48	48	+ 1	SSW	4	0	3	50	46	0.06		
	Liverpool (Bldston)	30.37	47	SE	2	0	30.50	+ .18	44	43	+ 2	SE	2	0	1	47	42			
	Holyhead ...	30.35	47	S	2	r	30.46	+ .21	46	45	0	S	3	og	2	48	45	0.09		
	Parsonstown ...	30.21	50	Z	0	r	30.38	+ .25	48	47	- 1	SE	1	0	#	53	47	0.15		
	Valencia ...	30.18	52	SSE	2	rm	30.38	+ .28	50	50	- 1	SSE	3	ogm	3	52	49	1.54		
	Roche's Point	30.24	50	SSW	5	rm	30.44	+ .23	50	49	0	SSW	4	0	4	50	49	0.15		
	Pembroke (St. Ann's Hd.)	30.33	49	SSW	3	C	30.48	+ .19	48	47	- 1	S	3	og	4	50	48	0.02		
FRANCE AND BELGIUM.	Scilly ...	30.32	51	S	4	0	30.44	+ .17	49	48	- 1	SSE	5	0	4	52	48			
	Prawle Point ...	30.41	47	S	3	C	30.55	+ .17	44	44	- 4	S	3	C	2	49	43			
	Jersey (St. Aubin's)	30.48	43	S	3	0	30.58	+ .12	43	40	+ 4	SE	3	og	3	49	38			
	Hurst Castle ...	30.47	45	WSW	1	bc	30.55	+ .13	45	44	0	SSW	2	0	2	51	41			
	Dungeness ...	30.45	45	Z	0	m	30.56	+ .13	44	40	+ 8	S	1	cm	1	46	34			
	North Foreland	30.41	44	H	2	f	30.60	+ .16	44	42	+ 3	SW	2	ogm	2	46	39			
	London ...	30.48	45	Z	0	om	30.58	+ .14	38	37	+ 2	ESE	1	og	#	46	35			
	Oxford ...	30.49	43	S	1	0	30.57	+ .14	33	33	- 8	SSE	1	f	#	46	33			
	Cambridge ...	30.47	42	SSW	4	0	30.58	+ .15	31	31	- 7	SSW	1	f	#	47	30			
	Yarmouth ...	30.44	42	Z	0	bcm	30.53	+ .14	42	41	+ 4	W	1	f	3	42	35	0.01		
PENINSULA.	Cuxhaven ...	30.46	40	NNE	2	C	30.66	+ .26	38	37	+ 1	SE	2	bc	#	40	37			
	Berlin ...	30.42	37	NW	3	C	30.52	+ .27	32	30	- 5	NE	2	0	#	39	32			
	Wiesbaden ...	?	?	?	?	?	30.58	+ .19	36	34	- 1	N	2	0	#	41	36			
	Munich ...	30.43	31	SW	3	0	30.49	+ .15	31	31	- 1	NW	2	0	#	34	30	0.20		
	The Helder ...	30.56	33	S	1	f	30.68	+ .20	28	27	- 10	S	1	f	1	41	27			
	Brussels (9 a.m.)	?	?	?	?	?	30.65	+ .17	26	26	- 3	ESE	1	f	#	37	24			
	Cape Gris Nez	30.43	43	S	1	0	30.52	+ .16	41	39	- 3	S	1	f	1	45	37			
	Paris ...	30.53	34	SSE	2	0	30.53	+ .07	28	28	- 11	E	1	0	#	?	?			
	Brest ...	?	45	SE	3	C	?	?	43	40	- 2	ESE	3	0	3	54	39			
	Lorient ...	30.45	43	ESE	4	C	30.51	+ .08	40	38	- 1	ESE	4	0	4	45	37			
FRANCE AND BELGIUM.	Rochefort ...	30.42	40	E	3	0	30.46	+ .02	31	31	- 5	E	4	m	#	46	28			
	Belfort ...	?	32	W	3	m	?	?	28	27	- 4	E	1	m	#	41	26			
	Lyons ...	30.43	35	NW	2	0	30.52	+ .09	31	29	- 4	NW	2	0	#	38	30			
	Nice ...	30.18	42	E	2	0	30.27	+ .12	37	28	- 4	NE	4	0	1	52	34			
	Perpignan ...	30.30	45	SW	1	0	30.41	+ .14	29	28	- 20	SW	2	0	#	57	28			
	Biarritz ...	30.35	36	E	3	m	30.38	?	35	35	?	E	3	0	2	39	32	0.04		
	Corunna ...	?	?	?	?	?	?	?	?	?	?	?	?	?	?	?	?			
	Lisbon ...	?	?	?	?	?	?	?	?	?	?	?	?	?	?	?	?			

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, 28<sup>th</sup> Dec: 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—

→ force above 10; → force 8 to 10;

→ force 5 to 7; → force 1 to 4;

○ = dead calm.

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

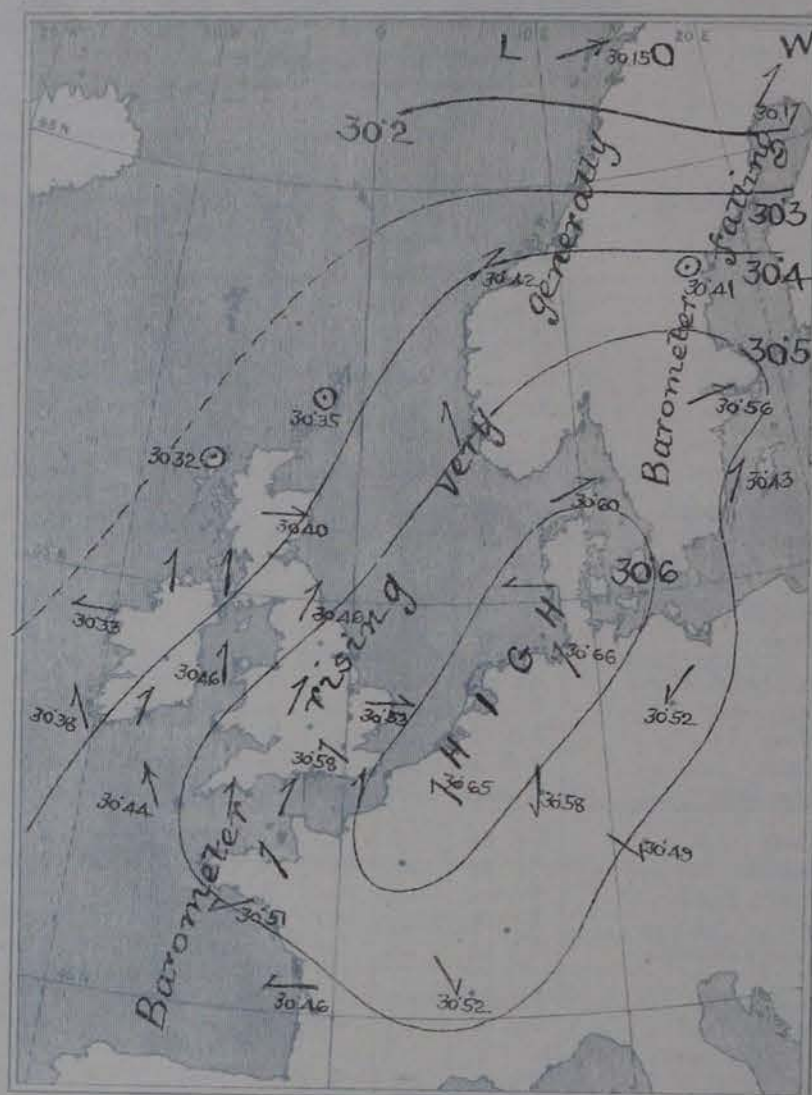
▨ = Rough. ▨ = High.

## MEAN HEIGHT OF THE BAROMETER

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

During the 20 Years 1871–1890.

STATIONS.	MEAN READINGS.
Sumburgh Head	29.073
Stornoway	29.705
Wick	29.718
Nairn	29.743
Aberdeen	29.767
Leith	29.807
Shields	29.845
Spurn Head	29.873
York	29.880
Loughborough	29.924
Ardrossan	29.930
Mullaghmore	29.821
Donaghadee	29.848
Holyhead	29.879
Liverpool	29.895
Parsonstown	29.901
Valencia	29.905
Roche's Point	29.912
Pembroke	29.916
Scilly	29.951
Prawle Point	29.970
Jersey	29.985
Hurst Castle	29.958
Dover	29.953
LONDON	29.954
Oxford	29.955
Cambridge	29.941
Yarmouth	29.916



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

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

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

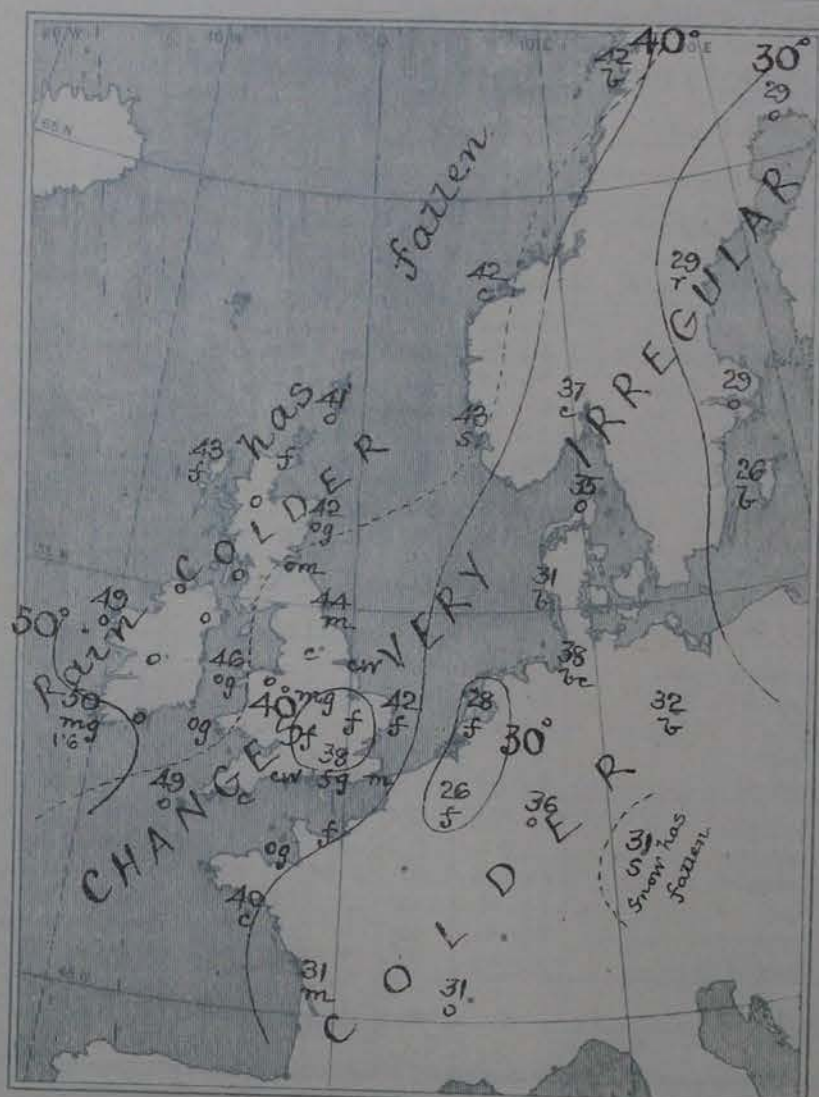
**RAINFALL**—A dotted line separates the districts in which rain has fallen from those where there has been none. Falls of 0.5 in. or more are quoted in figures.

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

(For the month of December.)

STATIONS.	TEMPERATURE.				RAINFALL (Inches.)
	Daily Max.	Daily Min.	at 8 a.m.		
			Dry.	Wet.	
Sumburgh Head.....	42.6	35.2	39.6	38.1	4.25
Stornoway.....	43.1	34.2	39.4	38.5	5.63
Wick.....	42.2	32.7	38.1	36.8	3.10
Nairn.....	41.9	32.8	37.1	35.6	1.95
Aberdeen.....	41.9	32.6	36.9	35.2	3.24
Leith.....	44.0	33.7	38.5	37.0	1.86
Shields.....	42.9	33.9	38.3	36.9	2.57
Spurn Head.....	42.4	35.3	38.8	37.7	2.14
York.....	42.3	32.3	36.4	35.4	2.28
Loughborough.....	42.7	32.2	36.3	35.4	2.24
Ardrossan.....	44.5	35.9	40.0	38.7	3.73
Mullaghmore.....	40.5	37.8	42.2	39.8	4.51
Donaghadee.....	45.8	36.2	40.2	39.3	2.84
Holyhead.....	46.4	39.1	42.8	41.1	3.82
Liverpool.....	43.5	35.0	38.8	37.1	2.59
Parsonstown.....	44.7	33.1	37.8	36.6	3.04
Valencia.....	49.7	40.0	44.6	42.4	5.99
Roche's Point.....	47.9	38.9	42.9	41.5	4.55
Pembroke.....	46.8	40.3	43.6	42.2	3.99
Scilly.....	49.5	43.4	47.0	45.1	4.02
Prawle Point.....	47.0	38.2	42.5	41.1	3.76
Jersey.....	47.3	39.3	43.1	41.4	3.82
Hurst Castle.....	45.6	36.3	40.6	39.8	2.78
Dover.....	44.3	35.9	39.8	38.0	3.00
LONDON.....	44.0	33.9	37.8	36.7	2.10
Oxford.....	42.9	33.5	37.0	35.9	2.10
Cambridge.....	42.8	31.6	36.2	35.5	1.88
Yarmouth.....	41.9	33.7	37.9	37.0	2.66

**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, { 30.6 in: to 30.4 in: in an anticyclone covering the greater part of Central and western Europe, and having its central area over Denmark and the Netherlands.

Lowest, (1) below 30.4 in: over the northwestern part of Ireland and Scotland; (2) below 30.2 in: over Lapland.

Gradients slight. Barometer rising generally.

## TEMPERATURE

Highest, 49° to 50° on our extreme southwestern and western coasts, 47° at Andersons, 42° to 43° in the west of Norway.

Lowest, 26° to 29° at the Swedish stations; 31° at Munich, Lyons, and Rochefort; 31° at Cambridge, 33° at Oxford, 38° in London.

It is inclined to decrease over the Continent and Great Britain, but is still high over Ireland.

## WIND

Moderate E in the west of France, SE to S on our southwestern and western coasts; extremely light and variable over the eastern half of England and in Scotland, calm at several stations; W and SW over Scandinavia.

## WEATHER

Fair as a whole, but dull or foggy in most places. Some snow is falling at Munich and Skutumpah, rain at Hemösand. Heavy rain (1.6 in.) fell at Valencia (Ireland) yesterday, and smaller quantities at the Irish and Scotch stations generally.

## SEA

Moderate at our southwestern stations, slight or smooth elsewhere.

## PROBABLE CHANGES IN SYSTEM NOW PREVALENT

The anticyclone in the east is increasing in intensity, and spreading out in all directions. Dull, foggy weather is probable, with a fall of temperature.

## FORECASTS

For the 24 hours ending at NOON on 29<sup>th</sup> DEC<sup>r</sup> 1893.

### DISTRICTS.

### FORECASTS.

- |   |                  |   |  |
|---|------------------|---|--|
| 0 | SCOTLAND NORTH   | { | SE <sup>ly</sup> airs and light breezes; fine, some haze or fog. |
| 1 | SCOTLAND EAST    |   |  |
| 2 | ENGLAND N.E.     | { | SE <sup>ly</sup> airs and calms, cold, foggy, dry.               |
| 3 | ENGLAND EAST     |   |  |
| 4 | MIDLAND COUNTIES |   |  |
| 5 | ENGLAND SOUTH    |   |  |

### DISTRICTS.

### FORECASTS.

- |          |               |              |  |
|----------|---------------|--------------|--|
| 6        | SCOTLAND WEST | {            | SE <sup>ly</sup> breezes, light, slight showers. |
| 7        | ENGLAND N.W.  |              |  |
| 8        | ENGLAND S.W.  | {            | SE <sup>ly</sup> breezes, moderate; fair.        |
| 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. Direc.	F.	WEA.	SEA.		BAR.	THER.		WIND. Direc.	F.	WEA.	SEA.
		Dry.	Wet.							Dry.	Wet.				
Skudesnaes ...	30.43	41	39	SSE	6	C	3	Valencia ...	30.16	52	52	SSE	2	fm	3
Sumburgh Head ...	30.06	46	45	SSW	2	T	4	Scilly ...	30.32	52	50	S	4	0	4
Stornoway ...	30.01	49	48	SW	4	T	4	Jersey ...	30.47	47	43	SW	3	6	3
Aberdeen ...	30.17	46	44	SSW	4	gq	4	Hurst Castle ...	30.44	50	47	SSW	2	6	2
Shields ...	30.29	45	42	SW	3	C	2	Dungeness ...	30.43	46	45	Z	0	m	0
Ardrossan ...	30.17	47	47	S	3	0	2	North Foreland ...	30.47	44	43	H	2	f	2
Malin Head ...	30.11	48	48	SSW	4	OT	2	London (Westminster) ...	30.45	47	45	Z	0	f	*
Mullaghmore ...								Yarmouth ...	30.41	42	41	Z	0	bcf	3
Belmullet ...	30.12	50	49	SW	3	om	*	Rocheport ...	30.42	42	42	E	3	m	*
Holyhead ...	30.28	48	48	SSW	2	OT	2								

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

for 8 a.m. on FRIDAY, 29<sup>TH</sup> DECEMBER, 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 5).	Weather.	Shade Temp.		Amount of Rainfall.				
				Force (0 to 12).	Dir.			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).	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 5).	Weather.	Max.	Min.	Amount of Rainfall.			
Ins.		°				Ins.	°	°	°							°	Ins.				
SCANDINAVIA.	Haparanda ...	30.26	32	W	4	0	30.38	-0.09	31	30	+2	SW	4	0	0	32	18	—			
	Hernösand ...	30.32	20	2	0	0	30.34	-0.07	29	28	0	SE	4	0	0	34	19	—			
	Stockholm ...	30.38	31	2	0	0	30.60	+0.04	28	28	+1	2	0	0	0	31	25	—			
	Wistby ...	30.62	33	W	4	0	30.63	+0.20	36	34	+10	WNW	4	0	0	36	23	0.04			
	Bodo ...	30.13	44	WNW	6	0	30.04	-0.31	40	43	+3	SW	9	7	6	45	39	—			
	Christiansund ...	30.47	45	WNW	2	bc	30.29	-0.13	44	39	+2	SW	2	0	5	bc	45	37	—		
	Skudesnaes ...	30.34	44	SE	2	0	30.34	+0.04	44	43	+1	SE	2	0	3	o.r	45	40	—		
	Christiania Fjord (Fjord)	30.38	33	NNW	4	0	30.61	+0.12	34	33	-3	NNW	2	0	1	0	37	30	—		
	Skagen (The Seaw)	30.62	36	NNW	1	bc	30.65	+0.03	39	39	+4	W	1	0	0	bc	39	32	—		
	Fanø ...	30.67	37	WNW	2	0	30.30	-0.37	38	38	+7	WNW	2	0	0	bc	39	31	—		
BRITISH ISLANDS.	Sumburgh Head	30.40	45	W	1	0	30.37	+0.02	46	46	+5	W	2	0	4	m.o	40	38	0.01		
	Stornoway ...	30.34	46	2	0	0	30.41	+0.09	45	44	+2	W	4	0	4	c.o	40	40	0.02		
	Wick ...	30.40	41	2	0	bc	30.44	+0.07	44	43	-1	WNW	2	0	1	f.b.	40	38	—		
	Nairn ...	30.40	37	2	0	bc	30.47	+0.11	40	46	+10	2	0	0	bc	49	35	—			
	Aberdeen ...	30.45	42	WNW	1	bc	30.34	+0.14	38	37	-4	WNW	1	0	1	cm	45	36	0.01		
	Leith ...	30.40	48	WNW	1	bc	30.33	+0.17	48	45	+2	SW	2	0	0	bc	51	45	—		
	Shields ...	30.32	47	WNW	2	0	30.61	+0.15	46	44	+2	WNW	1	0	2	od.o	40	40	—		
	Spurn Head ...	30.37	42	WNW	2	0	30.62	+0.12	41	40	0	WNW	1	0	2	omg	40	39	—		
	York ...	30.37	44	WNW	1	0	30.65	+0.13	43	42	+1	SW	1	0	0	o	44	41	—		
	Loughborough	30.61	41	SE	1	0	30.67	+0.14	40	40	-2	ENE	1	0	0	o	40	39	—		
GERMANY & HOLLAND.	Ardrossan ...	30.49	47	WNW	1	0	30.36	+0.13	46	46	-1	2	0	2	0	47	45	0.03			
	Malin Head ...	30.41	48	2	4	0	30.35	+0.23	46	45	-2	2	0	2	0	49	46	—			
	Mullaghmore ...	30.43	48	WNW	1	0	30.38	+0.25	47	47	-2	WNW	2	0	0	om.o	47	47	0.03		
	Belmullet ...	30.53	46	2	4	bc	30.39	+0.19	45	45	-3	WNW	2	0	2	bc	49	45	—		
	Donaghadee ...	30.49	47	WNW	1	0	30.36	+0.13	46	46	-1	2	0	2	0	47	45	0.03			
	Liverpool (sideston)	30.59	45	SE	1	0	30.67	+0.17	43	40	-1	SE	1	0	1	0	40	42	0.06		
	Holyhead ...	30.52	46	2	1	0	30.64	+0.12	43	43	-1	2	0	1	0	40	44	—			
	Parsonstown ...	30.50	47	SE	2	0	30.62	+0.24	46	45	-2	SE	1	0	0	0	51	41	—		
	Valencia ...	30.49	51	ENE	2	0	30.63	+0.25	49	49	-1	SE	2	0	0	c.c.p	53	49	0.02		
	Roche's Point	30.51	48	2	4	0	30.65	+0.21	43	46	-2	2	0	4	0	p.f	50	47	0.10		
FRANCE AND BELGIUM.	Pembroke (St. Ann's Hd.)	30.56	48	2	2	bc	30.66	+0.10	43	42	-5	2	0	2	bc	49	43	—			
	Scilly ...	30.52	47	SE	4	0	30.61	+0.17	47	44	-2	ENE	4	0	4	0	49	43	—		
	Prawle Point ...	30.62	43	SE	2	0	30.66	+0.11	38	38	-6	NE	2	0	2	0	46	36	—		
	Jersey (St. Aubin's)	30.61	40	SE	2	0	30.66	+0.08	35	34	-8	2	0	3	0	40	34	—			
	Hurst Castle ...	30.62	40	WNW	1	0	30.66	+0.11	42	41	-3	ENE	2	0	2	bc.b	40	36	—		
	Dungeness ...	30.61	42	WNW	1	0	30.68	+0.12	38	36	-6	ENE	1	0	0	0	45	36	—		
	North Foreland	30.66	41	2	3	0	30.69	+0.09	38	36	-6	SE	2	0	2	f.t.g	46	35	0.01		
	London ...	30.64	41	2	0	0	30.69	+0.11	40	40	+2	2	0	0	0	40	37	—			
	Oxford ...	30.66	42	2	1	0	30.69	+0.12	37	37	+4	WNW	2	0	0	0	43	33	—		
	Cambridge ...	30.64	41	WNW	1	0	30.69	+0.11	40	40	+9	WNW	1	0	0	0	45	30	—		
PENINSULA.	Yarmouth ...	30.59	42	WNW	1	bc	30.66	+0.13	38	37	-4	SW	2	0	0	bc	43	36	—		
	Cuxhaven ...	30.77	38	SE	1	bc	30.79	+0.13	33	32	-5	2	0	0	bc	33	33	—			
	Berlin ...	30.71	31	WNW	1	0	30.79	+0.17	32	29	-1	2	0	0	0	36	30	—			
	Wiesbaden ...	30.72	31	WNW	1	0	30.72	+0.14	37	36	-9	NE	2	0	0	0	37	27	—		
	Munich ...	30.72	19	2	0	0	30.65	+0.16	2	2	-29	SE	2	0	0	0	32	1	0.04		
	The Helder ...	30.75	28	2	1	0	30.80	+0.12	30	29	+2	2	0	1	0	36	27	—			
	Brussels (8 a.m.)	30.56	35	SE	1	0	30.63	+0.11	33	31	-8	SE	1	0	0	0	40	28	—		
	Cape Gris Nez	30.64	29	NNW	2	0	30.64	+0.11	29	28	+1	NNW	2	0	0	0	32	28	—		
	Paris ...	30.64	41	SE	1	0	30.64	+0.11	36	35	-7	ENE	2	0	0	0	40	30	—		
	Brest ...	30.56	34	SE	4	0	30.61	+0.10	31	30	-9	ENE	4	0	0	0	40	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 Friday, 29<sup>th</sup> Dec: 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—

→ = force 1 to 10; → = force 5 to 10;  
→ = force 5 to 7; → = force 1 to 4;  
= dead calm.

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

≡ = Rough. ≡ = High.

## MEAN HEIGHT OF THE BAROMETER

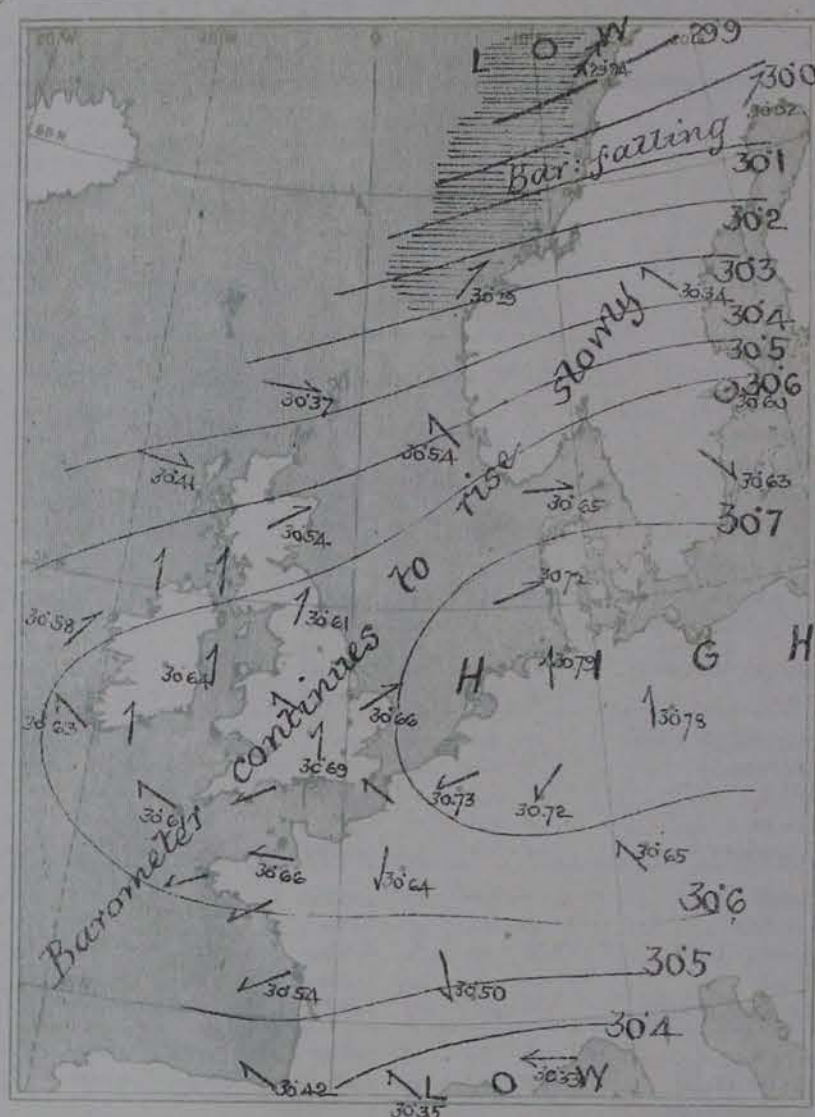
at 8.0 a.m. for the month of December.

During the 20 Years 1871-1890.

### STATIONS.

### MEAN READINGS.

STATIONS.	MEAN READINGS.
Sumburgh Head	29.673
Stormway	29.705
Wick	29.718
Naun	29.743
Aberdeen	29.767
Leith	29.807
Shields	29.845
Spurn Head	29.878
York	29.890
Loughborough	29.924
Ardrossan	29.929
Mullaghmore	29.921
Doughadew	29.948
Holyhead	29.970
Liverpool	29.995
Parsonstown	29.991
Valencia	29.963
Rock's Point	29.912
Pembroke	29.910
Sally	29.981
Prawle Point	29.970
Jersey	29.985
Hurst Castle	29.958
Dover	29.953
LONDON	29.954
Oxford	29.955
Cambridge	29.941
Yarmouth	29.910





# GENERAL SITUATION AT 8 A.M.

## PRESSURE

Highest 30.7 ins. and more over Germany and the Netherlands, and 30.6 ins. to 30.5 ins. over England, Ireland and the greater part of France.

Lowest (1) 29.9 ins. and less over the west of Lapland; (2) below 30.4 ins. over the Riviera and S. of France.

Gradients moderate over Scandinavia, slight elsewhere, the distribution of pressure was entirely baric.

Barometer apparently still rising—most in the west.

Highest 47° to 49° on our extreme southwestern and western coasts, and 44° or more at nearly all our own stations; 44° to 45° in the west of Norway.

## TEMPERATURE

Lowest (1) 21° at Munich, 27° at Wiesbaden, 28° at Brussels; (2) 27° at Perpignan, 28° at Biarritz, 29° at Lyons and Paris; (3) 29° to 31° on the coast of Sweden.

It rose to a little above 50° on our extreme southwestern coasts yesterday, but did not exceed 45° over our eastern coasts.

## WIND

W<sup>4</sup> to S<sup>2</sup> at our northern stations, moderate to light in force; S<sup>2</sup>, and moderate in Ireland, E<sup>2</sup> in the Channel and south of England, moderate ENE<sup>2</sup> over the Bay of Biscay, calm over central England.

## WEATHER

Fine and bright in the south and west of Germany and the south of France, as well as at Bristol, dull generally elsewhere, foggy over the Netherlands and several parts of the British Islands, haze in other parts. Rain was falling at Bodø.

A little rain fell yesterday at several of our western and northern stations, but the fall was by no means general even in those regions.

## SEA

Moderate in the extreme southwest and the north, slight to very smooth elsewhere.

## PROBABLE CHANGES IN SYSTEM NOW PREVALENT

There is at present no indication of any important change.

# FORECASTS

For the 24 hours ending at NOON on 30<sup>th</sup> DECEMBER 1893.

## DISTRICTS.

## FORECASTS.

- |   |                  |  |
|---|------------------|--|
| 0 | SCOTLAND NORTH   | W <sup>3</sup> and S <sup>4</sup> breezes, moderate; some rain at times. |
| 1 | SCOTLAND EAST    |  |
| 2 | ENGLAND N.E.     | W <sup>4</sup> breezes, light; fair.                                     |
| 3 | ENGLAND EAST     |  |
| 4 | MIDLAND COUNTIES | Calms and variable winds; dull, misty or foggy in several places.        |
| 5 | ENGLAND SOUTH    |  |
|   |                  | E <sup>2</sup> winds; fine on the coast; foggy and gloomy in London.     |

## DISTRICTS.

## FORECASTS.

- |    |               |  |
|----|---------------|--|
| 5  | SCOTLAND WEST | S <sup>4</sup> winds, moderate; some showers.      |
| 7  | ENGLAND N.W.  |  |
| 8  | ENGLAND S.W.  | E <sup>2</sup> breezes, moderate; fair.            |
| 9  | IRELAND NORTH |  |
| 10 | IRELAND SOUTH | Varying S <sup>2</sup> breezes; cloudy, some rain. |
|    |               |  |

## WARNINGS

NONE ISSUED.

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

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



# YESTERDAY'S 2 P.M. REPORTS.

	BAR.	THER.		WIND. Direc.	F.	WEA.	SEA.		BAR.	THER.		WIND. Direc.	F.	WEA.	SEA.
		Dry.	Wet.							Dry.	Wet.				
Skudesnaes ...	30.53	43	42	SE	4	c	4	Valencia ...	30.45	52	51	SE	2	c	3
Sumburgh Head ...	30.59	43	43	SE	1	m	4	Scilly ...	30.55	49	47	SE	5	c	4
Stornoway ...	30.34	40	47	S	2	c	3	Jersey ...	30.61	40	39	E	2	c	3
Aberdeen ...	30.44	45	44	SW	1	c, m	2	Hurst Castle ...	30.61	40	40	SW	1	bc	1
Shields ...	30.53	47	46	SW	2	cd	2	Dungeness ...	30.60	45	44	S	0	c	0
Ardrossan ...	30.45	47	46	S	2	c	2	North Foreland ...	30.63	43	42	S	2	f	2
Malin Head ...	30.37	49	48	S	4	mg	2	London (Wapping) ...	30.61	45	43	S	0	f	*
Mullaghmore ...	30.37	45	40	SW	1	mg	*	Yarmouth ...	30.57	42	42	W	1	bc, m	2
Belmullet ...	30.37	45	40	S	2	cd	1	Rocheport ...	30.49	32	32	E	4	c	*
Holyhead ...	30.53	40	47	S	2	cd	1								

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

Weather in morning fine and bright over many parts of southern Europe and the Mediterranean, as well as in some parts of Germany, Denmark and Scandinavia, dull generally elsewhere; very heavy or foggy in various parts of England and the Netherlands. Slight snow falling at Cracow and Odessa. A little rain later in several parts of Ireland and Scotland, but fall not general even in those countries, very foggy in London during day, and densely dark in afternoon.

Temperature fallen considerably over central and southeastern Europe and rapidly over the north of Russia. Highest 56° at Algiers, 52° at Malta, 50° at Aram, also at Roches Pt. and Valencia (Ireland). Above 40° at most of our coast stations, and in the west of Norway. Lowest (1) -21° F. at Haparanda, +15° at Kuopio; (2) 15° at Lomberg, 18° at Kiev, 20° at Cracow, 24° at Riga; (3) 28° at the Helder, Paris and Belfort, 31° at Lyons. Rising later to between 50° and 53° on our extreme southwestern coasts, but not exceeding 45° over our southeastern and eastern coasts, and failing to reach 40° over Germany.

Wind very light, to moderate, generally (1) N<sup>2</sup> but variable over southeastern and southern Europe as a whole, E<sup>2</sup> over the south of Spain and France, SE<sup>2</sup> over the Channel, S<sup>2</sup> over nearly the whole of the United Kingdom, SW<sup>2</sup> over northern Europe. No important change in our Islands later.

Barometer 30.6 ins. and more to 30.3 ins. in an anticyclone covering nearly the whole of western, northern, and a great deal of central Europe. Lowest 28.9 ins. and less over the Black Sea and extreme southeast of Europe, and below 30.2 ins. over the western part of Lapland. Gradients moderate over the southeastern countries, slight elsewhere. Rising throughout our Islands and northwestern Europe during the day, but inclined to fall over Lapland at 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.

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# DAILY WEATHER REPORT

for 8 a.m. on Saturday, 30<sup>th</sup> December, 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.		Dirce.	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.		Dirce.	Force (0 to 12).	Weather.		Max.	Min.
		Inch.	°				Inch.													Inch.
SCANDINAVIA.	Haparanda ...	29.67	37	SW	6	0	29.25	- .83	32	32	+ 1	SSW	4	c	#	0	37	30	-	
	Hernösand ...	30.10	32	SE	2	0	29.67	- .67	40	36	+ 11	SE	4	c	#	0	?	18	-	
	Stockholm ...	30.41	38	WSW	2	0	30.04	- .56	43	44	+ 15	WSW	6	0	#	0	43	25	-	
	Wisby ...	30.56	38	NW	4	0	30.25	- .35	41	40	+ 5	WSW	6	0	#	0	41	27	-	
	Bodö ...	29.65	42	SW	8	0	29.22	- .62	38	37	- 7	W	9	bc	7	0	45	37	0.16	
	Christiansund...	30.08	47	SW	5	0	29.78	- .51	48	46	+ 4	SW	5	r	7	0	48	44	0.35	
	Skudesnaes ...	30.54	44	SW	4	f	30.42	- .12	45	43	+ 1	WSW	4	0	4	f	45	43	-	
	Christiania Fjord (Fjord)	30.45	40	SSW	4	b	30.21	- .40	44	41	+ 10	SSW	8	0	4	b	44	34	-	
	Skagen (The Seaw)	30.55	43	W	2	f	30.41	- .24	43	42	+ 4	WNW	5	m	1	f	43	39	-	
	Fanö ...	30.75	41	WSW	4	0	30.67	- .05	40	39	+ 2	WSW	4	c	#	0	41	38	-	
BRITISH ISLANDS.	Sumburgh Head	30.34	46	W	4	0	30.22	- .15	47	46	+ 1	W	4	0	5	0	47	43	0.01	
	Stornoway ...	30.42	46	W	4	bc	30.40	- .01	47	45	+ 2	W	4	c	4	b, bc	47	43	-	
	Wick ...	30.44	45	S	1	b	30.39	- .05	48	47	+ 4	NW	3	0	1	b	48	41	-	
	Nairn ...	30.47	48	SW	1	bc	30.45	- .02	47	45	- 1	Z	0	bc	1	bc	50	43	-	
	Aberdeen ...	30.55	34	WSW	1	b	30.50	- .04	34	33	- 4	WNW	1	bc	1	cm, b	44	32	-	
	Leith ...	30.60	47	W	2	bc	30.58	+ .03	47	44	- 1	WSW	3	c	#	bc	50	41	-	
	Shields ...	30.66	45	SW	1	m	30.64	+ .03	45	42	- 1	SW	2	c	2	c, m	49	40	-	
	Spurn Head ...	30.70	41	SSE	2	f	30.71	+ .08	34	33	- 7	SW	2	bc, m	2	f	42	33	-	
	York ...	30.69	44	SSW	1	0	30.72	+ .07	32	32	- 11	S	1	f	#	0	45	32	-	
	Loughborough	30.73	36	ESE	1	0	30.74	+ .07	33	33	- 7	W	2	ofw	#	0	44	31	-	
BRITISH ISLANDS.	Ardrossan ...	30.62	47	SSW	3	0	30.62	+ .06	47	46	+ 1	SSW	2	0	2	0	47	45	-	
	Malin Head ...	30.59	47	S	4	0	30.62	+ .07	46	45	- 0	SSW	3	0	2	c, 0	47	46	-	
	Mullaghmore ...																			
	Belmullet ...	30.61	48	SSW	3	0	30.66	+ .08	46	44	- 1	SSW	2	b	#	0	49	44	0.05	
	Donaghadee ...	30.68	42	SW	3	c	30.70	+ .11	45	45	- 0	W	4	0	2	c	49	37	-	
	Liverpool (Bidston)	30.71	45	Z	0	0	30.74	+ .07	36	36	- 7	SE	2	0	1	0	46	36	-	
	Holyhead ...	30.65	44	S	2	c	30.67	+ .03	40	39	- 5	S	1	cw	1	og, c	46	39	-	
	Parsonstown ...	30.67	46	Z	0	0	30.69	+ .07	43	42	- 3	Z	0	b	#	0	49	42	-	
	Valencia ...	30.69	48	Z	0	om	30.67	+ .04	45	44	- 4	E	3	c	3	om	51	42	-	
	Roche's Point	30.69	45	S	2	c	30.69	+ .04	46	44	- 2	SE	4	c	4	p, c	49	42	0.01	
BRITISH ISLANDS.	Pembroke (St. Ann's Hd.)	30.68	43	ESE	2	c	30.69	+ .03	39	37	- 4	ESE	3	c, g, m	2	c	45	38	-	
	Scilly ...	30.64	46	NE	3	c	30.60	- .01	45	41	- 2	E	4	c	4	c	48	41	-	
	Prawle Point ...	30.69	42	E	3	c	30.65	- .01	40	38	+ 2	ESE	4	bc	3	c	44	37	-	
	Jersey (St. Aubin's)	30.66	39	EHE	3	cm	30.64	- .02	35	32	- 0	EHE	4	bw	3	b, cm	40	34	-	
	Hurst Castle ...	30.71	40	EHE	2	bc	30.71	+ .05	32	31	- 10	NE	2	m	1	cm, bc	44	31	-	
	Dungeness ...	30.70	39	EHE	4	0	30.68	- .02	35	33	- 3	ESE	3	b	2	c, 0	42	33	-	
	North Foreland	30.75	38	S	3	c	30.73	+ .04	37	35	- 1	E	3	bc	3	c	39	34	-	
	London ...	30.75	38	E	1	bc	30.72	+ .03	28	27	- 12	Z	0	of	#	og, bc, m	41	28	-	
	Oxford ...	30.74	40	Z	0	f	30.75	+ .06	25	25	- 12	Z	0	of	#	of	41	25	-	
	Cambridge ...	30.75	39	SSE	1	0	30.74	+ .05	24	?	- 16	S	1	f	#	0	42	23	-	
Yarmouth ...	30.71	39	S	2	bc	30.73	+ .07	35	34	- 3	SSE	2	b	2	cf, bc	40	31	0.03		
GERMANY & HOLLAND.	Cuxhaven ...	30.81	32	SW	1	f	30.77	- .02	28	27	- 5	SSE	2	m	#	f	39	27	-	
	Berlin ...	30.86	29	SSW	2	b	30.83	+ .04	24	23	- 7	SW	2	b	#	b	34	25	-	
	Wiesbaden ...	*	*	*	*	*	30.79	+ .07	22	20	- 5	NE	2	b	#	#	32	21	-	
	Munich ...	30.70	7	SE	2	b	30.67	+ .02	10	9	+ 8	NE	4	0	#	b	16	1	-	
	The Helder ...	30.84	30	SSE	1	b	30.82	+ .02	25	24	- 5	SSE	1	b	1	b	36	25	-	
FRANCE AND BELGIUM.	Brussels (9 a.m.)	*	*	*	*	*	30.75	+ .02	21	20	- 7	EHE	1	b	#	b	31	19	-	
	Cape Gris Nez	30.65	32	SE	1	b	30.63	- .02	28	28	- 5	E	1	m	#	b	37	25	-	
	Paris ...	30.66	31	NHE	3	b	30.66	+ .02	21	21	- 8	NE	2	b	#	b	36	?	-	
	Brest ...	?	36	EHE	2	c	?	?	32	27	- 4	E	2	c	2	c	41	28	-	
	Lorient ...	30.58	37	NE	5	c	30.54	- .07	32	30	+ 1	E	5	b	2	c	41	28	-	
FRANCE AND BELGIUM.	Rochefort ...	30.44	34	E	4	b	30.45	- .09	28	27	- 3	E	5	b	#	b	39	25	-	
	Belfort ...	?	29	E	4	b	?	?	21	20	- 4	E	4	b	#	b	34	16	-	
	Lyons ...	?	28	N	1	b	30.58	+ .08	25	22	- 4	WNW	2	0	#	b	33	24	-	
	Nice ...	30.47	38	NE	2	b	30.45	+ .12	33	25	- 8	EHE	4	b	5	b	46	28	-	
	Perpignan ...	30.47	38	NW	2	0	30.42	+ .07	33	32	+ 6	W	2	bc	#	0	46	27	-	
	Biarritz ...	30.44	33	NE	3	0	30.40	- .02	33	31	+ 5	E	3	0	2	0	39	28	-	
PENINSULA.	Corunna ...	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Lisbon ...	30.28	40	NHE	3	b	30.26	- .05	42	41	+ 2	NE	4	0	#	b	50	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 Saturday, 30<sup>th</sup> Dec<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

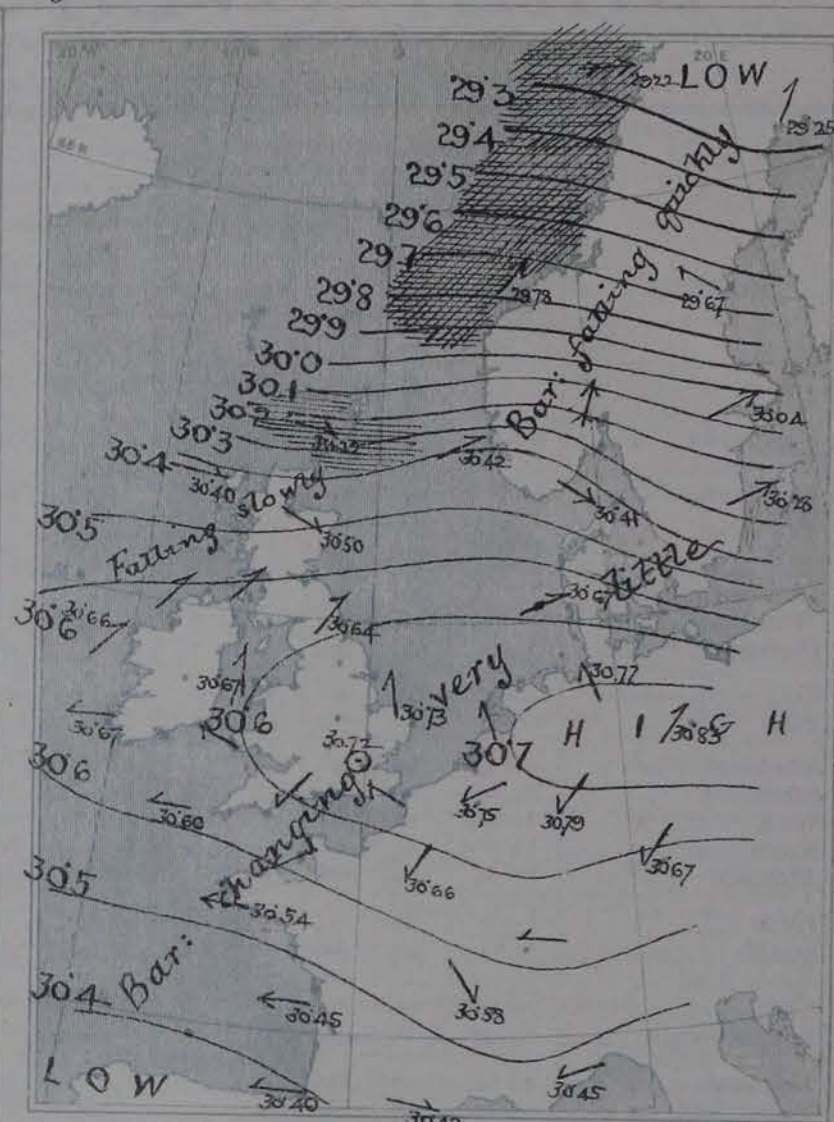
at 8 a.m. for the month of December.

During the 20 Years 1871—1890.

### STATIONS.

### MEAN READINGS.

STATIONS.	MEAN READINGS.
Sumburgh Head	29.673
Stornoway	29.703
Wick	29.718
Nairn	29.743
Aberdeen	29.767
Leith	29.807
Shields	29.845
Spurn Head	29.873
York	29.890
Loughborough	29.924
Ardrossan	29.890
Mullaghmore	29.821
Donaghadee	29.848
Holyhead	29.879
Liverpool	29.893
Parsonstown	29.901
Valencia	29.905
Roche's Point	29.912
Pembroke	29.916
Scilly	29.951
Pravle Point	29.970
Jersey	29.985
Hurst Castle	29.988
Dover	29.993
LONDON	29.994
Oxford	29.995
Cambridge	29.994
Yarmouth	29.916



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

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

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

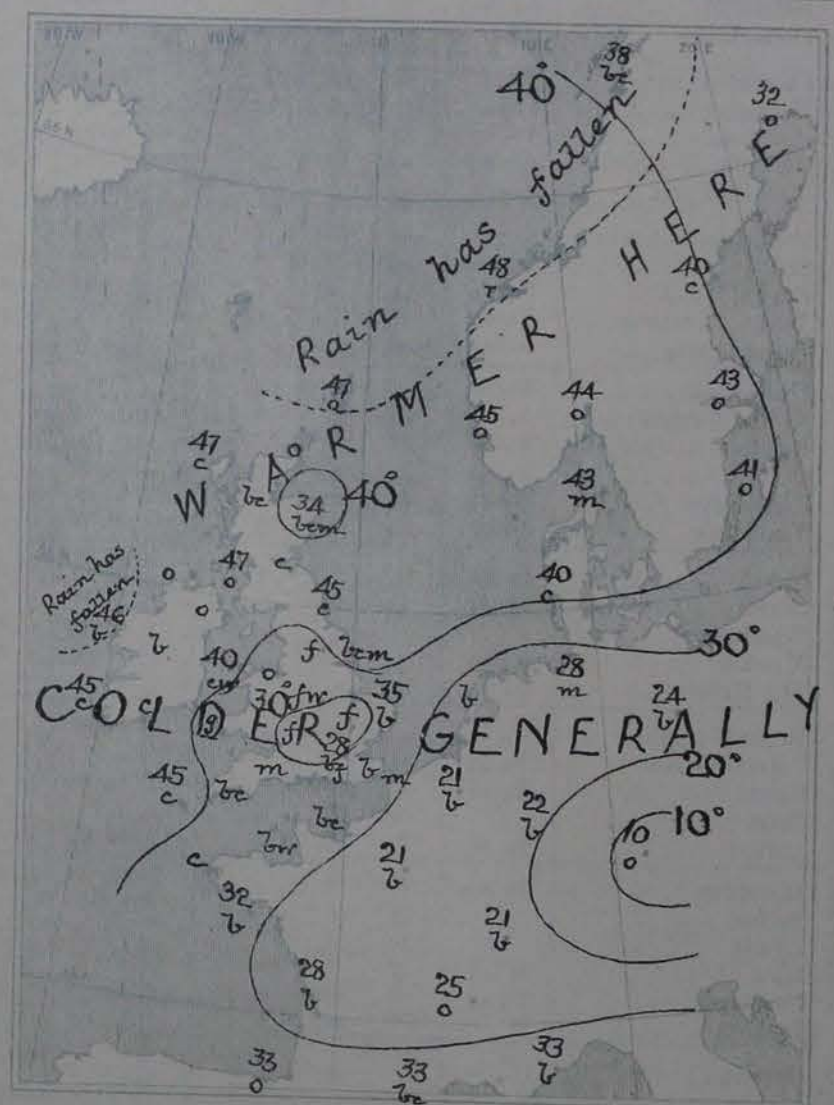
**RAINFALL**—A dotted line separates the districts in which rain has fallen from those where there has been none. Falls of 0.1 in. or more are quoted in figures.

## MEANS OF TEMPERATURE IN SHADE AND RAINFALL

(For the month of December.)

STATIONS.	TEMPERATURE				RAINFALL (Inches)
	Day Max.	Night Min.	Day Min.	Night Max.	
Sumburgh Head	42.0	35.2	30.0	38.1	4.25
Stornoway	43.1	34.2	30.1	38.5	3.51
Wick	42.2	33.7	29.1	38.8	3.16
Nairn	41.0	32.5	27.1	36.6	1.95
Aberdeen	41.9	32.6	26.0	35.2	3.24
Leith	44.0	33.7	28.0	37.9	4.50
Shields	42.0	33.0	28.3	37.9	2.47
Spurn Head	42.4	35.3	28.8	37.7	2.14
York	42.3	32.3	29.4	37.4	2.25
Loughborough	42.2	32.2	30.3	35.4	1.24
Ardrossan	44.5	35.0	30.0	38.2	3.73
Mullaghmore	40.5	37.8	32.2	39.8	4.51
Donaghadee	45.8	36.2	30.2	39.3	2.81
Holyhead	46.1	35.1	32.8	41.1	5.28
Liverpool	41.0	33.3	28.8	37.1	2.60
Parsonstown	44.7	33.1	27.8	37.1	3.91
Valencia	40.7	40.4	44.6	42.1	5.99
Roche's Point	47.9	38.9	42.0	41.5	4.95
Pembroke	40.8	40.3	43.0	42.2	3.90
Scilly	40.3	33.4	42.9	43.1	1.02
Pravle Point	47.0	38.2	42.5	41.1	3.76
Jersey	47.2	39.3	43.1	41.4	3.62
Hurst Castle	45.0	36.3	40.0	39.8	2.78
Dover	44.3	35.0	39.8	38.0	3.09
LONDON	44.0	34.0	37.8	36.7	2.10
Oxford	42.0	33.5	37.0	35.8	1.16
Cambridge	42.8	31.6	26.2	37.0	1.88
Yarmouth	41.0	33.7	37.0	37.0	2.00

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, 30.53 in: at Berlin, and preceding 30.6 in: all over Germany, the Netherlands, the northeastern part of France, and the greater part of England and Ireland.  
 Lowest, (1) 29.3 in: and less, over Lapland, and 30.2 in: at Lumburgh H<sup>d</sup>; (2) 30.3 in: and less, over the southwestern part of the Peninsula.  
 Gradients still slight over the southern half of our area, but have become moderate over Scotland, steep over Scandinavia for W<sup>1</sup> and SW<sup>1</sup> winds.  
 Barometer almost steady in our Islands, falling rapidly over Scandinavia.

## TEMPERATURE

Highest, 47° at Lumburgh H<sup>d</sup>, Stromsøy, Kinn, and Arendal, 45° to 46° in the west of Ireland, 45° at Lill.  
 Lowest, 10° at Munich, 21° at Brussels, Paris, and Brest, 22° at Wiesbaden, 24° at Berlin and Cambridge, 25° at the Helder and Oxford, 28° in London.  
 It has fallen decidedly in many parts of England, France, and North Germany during the night, but risen quickly over Scandinavia.

## WIND

E at the southern stations as a whole, and light to moderate in force; W and moderate in Scotland,  
 Calm over Central England.  
 In Sweden and Norway it has become strong, to a gale in force from between W. and SW.

## WEATHER

Fine and bright over Germany, France, and the Channel, foggy over England, fair in Scotland, cloudy and squally over Scandinavia, with rain in places.  
 Rain has fallen over the northern half of Norway, and slight showers at Rother, Belmullet, and Lumburgh Head.

## SEA

High on the northwest coasts of Scandinavia, slight to smooth at all our own stations.

## PROBABLE CHANGES IN SYSTEM NOW PREVALENT

No very decided change of weather is indicated at present except some decrease in fog over our southern counties owing to a little freshening of the easterly wind.

## FORECASTS

For the 24 hours ending at NOON on 31<sup>st</sup> DEC<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

W<sup>2</sup> and NW<sup>2</sup> winds; some showers.

Very light airs and Calms; foggy at times, cold, sharp frost tonight.

E<sup>2</sup> breezes, light inland, moderate on coast; fine, cold.

### 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

Same as Nos 2 to 4

E<sup>2</sup> breezes, fresh; fair, cold.

S<sup>2</sup> and SW<sup>2</sup> breezes, light; fair.

E<sup>2</sup> and SE<sup>2</sup> breezes, moderate; fair.

### WARNINGS

None issued.

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



# YESTERDAY'S 2 P.M. REPORTS.

	BAR.	THER.		WIND. Dirac.	F.	WEA.	SEA.		BAR.	THER.		WIND. Dirac.	F.	WEA.	SEA.
		Dry.	Wet.							Dry.	Wet.				
Skudesnaes ...	30.58	43	43	S	4	f	3	Valencia ...	30.65	50	49	SE	1	om	2
Sumburgh Head ...	30.38	46	44	W	2	o	4	Scilly ...	30.65	47	44	NE	14	c	4
Stornoway ...	30.46	47	46	W	4	b	4	Jersey ...	30.68	38	36	E	3	b	3
Aberdeen ...	30.55	42	41	WNW	1	om	1	Hurst Castle ...	30.70	43	40	ESE	2	cm	1
Shields ...	30.63	48	45	SW	2	c	2	Dungeness ...	30.70	40	36	E	3	c	2
Ardrossan ...	30.61	47	46	SSW	4	o	2	North Foreland ...	30.73	39	37	E	3	c	2
Malin Head ...	30.57	46	45	S	4	c	2	London (Westminster) ...	30.73	43	39	E	1	om	*
Mullaghmore ...								Yarmouth ...	30.68	40	39	SW	2	cf	2
Belmullet ...	30.61	49	48	SSW	2	o	*	Rochefort ...	30.49	37	34	E	4	b	*
Holyhead ...	30.68	46	46	S	1	og	1								

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

Weather in morning fine and bright over the Mediterranean, Italy, Austria, southern and western Germany, foggy over England cloudy and somewhat unsettled over Northern Europe, dull over Russia, Poland, Hungary. Rain falling later over the northern half of Norway, and very slight showers at some of our extreme northwestern and western stations. Fog very prevalent over England.

Temperature in morning highest 51° at Malta and Algiers, exceeding 40° at most of the Mediterranean stations; ranging from 45° to 49° on our own western coasts and touching 46° at Sumburgh H. and 45° at Bodo. Lowest (1) 3° at Moscow, 21° at Arkharov, 22° at Riga, 27° at Archangel; (2) 2° at Munich, 7° at Hermannstadt, 23° at Lemberg and Vienna, 29° at Lyons and Paris. Not below 37° at any of our own stations. Rising later to 50° at Leith and 51° at Valencia, but failing to reach 40° over France and Germany; falling briskly over England towards night, rising decidedly over Scandinavia.

Wind SW<sup>1</sup> to W<sup>1</sup> over the northern countries generally, E<sup>2</sup> to N<sup>4</sup> in the south—the latter blowing strongly over the Adriatic, Italy and the Riviera; nearly calm over Central Europe, and the inland parts of England. The SW<sup>1</sup> wind increasing to a gale in several parts of Scandinavia later.

Barometer highest 30.8 ins. to 30.6 ins. in a large anticyclone <sup>stretching</sup> across Ireland, England, the North Sea, and Germany to Central Russia. Lowest 29.9 ins. and less, (1) over the west of Iceland and (2) over France and Adria. Gradients moderate both over southeastern and northern Europe, very slight elsewhere. Rising slightly over our Islands later; falling slowly over the Peninsula, rapidly over northern 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. low.

\* 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 8 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 31<sup>st</sup> December,

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 ...	29.00	28	WSW	4	bc	29.09	-.16	19	18	-	13	NNW	4	b	#	bc	36	19	-	
	Hernösand ...	29.50	38	NW	8	b	29.38	-.29	32	28	-	8	NW	6	b	#	b	43	30	-	
	Stockholm ...	29.75	42	SW	6	o	29.61	-.43	37	32	-	6	WNW	6	b	#	o	45	37	-	
	Wisby ...	29.91	41	W	6	o	29.66	-.62	41	40	-	0	NNW	6	bc	#	o	43	34	-	
	Bodö ...	29.19	36	W	9	s	29.50	+.28	35	32	-	3	NW	4	bc	2	s	38	30	0.32	
	Christiansund...	29.91	40	WNW	9	o	30.00	+.22	37	33	-	11	WNW	8	s	6	o	48	34	-	
	Skudesnaes ...	30.24	46	WSW	7	o	30.15	-.27	40	36	-	5	NNW	4	c	4	rfo	46	39	-	
	Christiania Fjord (Færder)	30.34	45	WSW	8	b	29.89	-.32	42	38	-	2	NNW	5	b	4	b	46	42	-	
	Skagen (The Scaw)	30.10	42	NW	7	m	29.87	-.54	44	43	+	1	NW	5	bc	2	m	45	41	-	
	Fanö ...	30.40	42	W	4	o	30.20	-.47	43	42	+	3	W	5	b	#	o	43	40	-	
BRITISH ISLANDS.	Sumburgh Head	30.19	47	W	5	r	30.26	+.04	27	34	-	10	N	1	b	4	r	48	37	0.09	
	Stornoway ...	30.38	45	W	4	o	30.37	-.03	27	46	-	0	W	4	o	4	o	49	43	0.03	
	Wick ...	30.36	48	NW	2	b	30.34	-.05	43	43	-	5	NW	2	or	2	b	53	43	0.18	
	Nairn ...	30.43	48	W	1	c	30.36	-.09	49	47	+	2	W	1	c	1	✓	52	44	-	
	Aberdeen ...	30.48	42	WSW	1	b	30.37	-.13	44	42	+	10	W	2	bc	1	bc, b	46	33	-	
	Leith ...	30.56	45	WSW	3	o	30.43	-.15	44	42	-	3	SW	3	b	#	o	50	42	-	
	Shields ...	30.59	45	WSW	3	c	30.44	-.20	40	38	-	5	WSW	3	c	2	c	48	38	-	
	Spurn Head ...	30.63	34	W	3	b, m	30.48	-.23	34	33	-	0	WNW	3	fur	2	fur, b, m	42	32	-	
	York ...	30.67	31	S	1	f	30.50	-.22	32	32	-	0	S	1	f	#	f	34	29	0.01	
	Loughborough	30.71	31	W	1	b	30.56	-.18	33	33	-	0	W	1	b, m	#	b	35	27	-	
BRITISH ISLANDS.	Ardrossan ...	30.62	46	SSW	3	o	30.47	-.15	47	46	-	0	WSW	3	o	2	o	47	35	-	
	Malin Head ...	30.60	44	WSW	2	o	30.52	-.10	46	44	-	0	WSW	2	o	2	o	46	43	-	
	Mullaghmore ...	30.63	45	SW	2	b	30.60	-.06	42	41	-	4	S	2	o	#	bc, b	47	41	-	
	Belmullet ...	30.67	45	SW	2	c	30.55	-.15	40	40	-	5	NW	4	c	2	c	47	35	-	
	Liverpool (Bldston)	30.70	35	SE	2	o	30.56	-.19	40	39	+	4	WSW	2	b	2	o	40	33	0.01	
	Holyhead ...	30.66	40	S	1	b, m	30.56	-.11	42	41	+	2	NW	1	bc	1	o, b, m	43	37	-	
	Parsonstown ...	30.67	38	Z	0	b	30.63	-.06	27	26	-	16	Z	0	b	#	b	46	25	-	
	Valencia ...	30.66	42	ESE	2	c, m	30.62	-.05	31	31	-	14	Z	0	b	#	b, m	47	30	-	
	Roche's Point	30.67	43	SE	4	b	30.60	-.09	35	34	-	11	ESE	3	b	3	b, m	47	34	-	
	Pembroke (St. Ann's Hd.)	30.66	37	ESE	2	b	30.58	-.11	35	34	-	4	ENE	2	b	1	b	40	32	-	
BRITISH ISLANDS.	Scilly ...	30.58	44	E	5	c	30.52	-.08	44	41	-	1	ENE	4	c	4	c	48	41	-	
	Prawle Point ...	30.64	40	ESE	3	bc	30.55	-.10	34	33	-	6	ENE	2	bc	1	bc	42	33	-	
	Jersey (St. Aubin's)	30.60	36	ENE	4	b, m	30.54	-.10	31	28	-	4	ESE	3	b, m	3	b, m	40	30	-	
	Hurst Castle ...	30.67	35	ENE	2	b, m	30.57	-.14	28	27	-	4	NNE	1	m	1	b, m	40	26	-	
	Dungeness ...	30.65	33	E	2	b	30.53	-.15	23	2	-	12	NNE	1	f	1	bc, b	40	22	-	
	North Foreland	30.69	38	NE	2	bc	30.53	-.20	32	31	-	5	NW	3	fg	3	bc	40	29	-	
	London ...	30.70	24	E	1	m	30.50	-.16	24	23	-	4	WSW	1	of	#	b, m, f	39	23	-	
	Oxford ...	30.70	26	Z	0	f	30.58	-.17	25	25	-	0	NNW	1	f	#	f	35	23	-	
	Cambridge ...	30.70	28	S	1	b	30.55	-.19	27	27	+	3	SSW	1	f	#	b	38	22	-	
	Yarmouth ...	30.68	34	ESE	2	f	30.49	-.24	28	?	-	7	WSW	2	o	2	mf	40	25	-	
GERMANY & HOLLAND.	Cuxhaven ...	30.67	37	SW	2	o	30.34	-.43	37	37	+	9	WSW	5	o	#	o	38	33	-	
	Berlin ...	30.63	26	Z	0	b	30.33	-.50	28	27	+	4	W	3	o	#	b	30	25	-	
	Wiesbaden ...	#	#	#	#	#	30.55	-.24	19	18	-	3	E	1	bc	#	#	27	18	-	
	Munich ...	30.60	6	SE	1	b	30.51	-.16	1	1	-	9	NW	2	m	#	b	12	1	0.04	
	The Helder ...	30.68	30	S	1	b	30.49	-.33	39	38	+	14	W	2	c	1	b	29	25	-	
	Brussels (9 a.m.)	#	#	#	#	#	30.56	-.19	24	22	+	3	SW	1	bc	#	b	33	21	-	
	Cape Gris Nez	30.60	32	SE	1	b	30.48	-.15	35	35	+	7	N	1	m	1	b	36	28	-	
	Paris ...	30.62	26	NE	2	b	30.55	-.11	18	18	-	13	NNE	2	b	#	b	31	18	-	
	Brest ...	?	36	ENE	3	b	?	?	27	27	-	5	E	1	b	2	b	41	25	-	
	Lorient ...	30.52	33	ENE	5	b	30.45	-.09	26	25	-	6	ENE	5	b	2	b	37	27	-	
FRANCE AND BELGIUM.	Rochefort ...	30.48	30	E	4	b	30.41	-.04	27	27	-	1	E	4	b	#	b	39	25	-	
	Belfort ...																				
	Lyons ...	30.44	24	N	1	b	30.40	+.02	20	20	-	5	NNW	1	b	#	b	28	19	-	
	Nice ...	30.47	34	ENE	2	b	30.45	.00	28	22	-	5	E	1	b	3	b	39	28	-	
	Perpignan ...	30.46	41	SW	1	o	30.43	+.01	37	37	+	4	NNE	2	r	#	o	49	33	0.12	
	Biarritz ...	30.36	34	E	4	b	30.28	-.12	28	27	-	5	ESE	4	b	2	b	39	27	-	
	Corunna ...	30.23	#	#	#	#	30.19	-.07	43	42	+	1	NNE	4	o	#	#	52	41	-	
	Lisbon ...																				

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, 31<sup>st</sup> Dec: 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

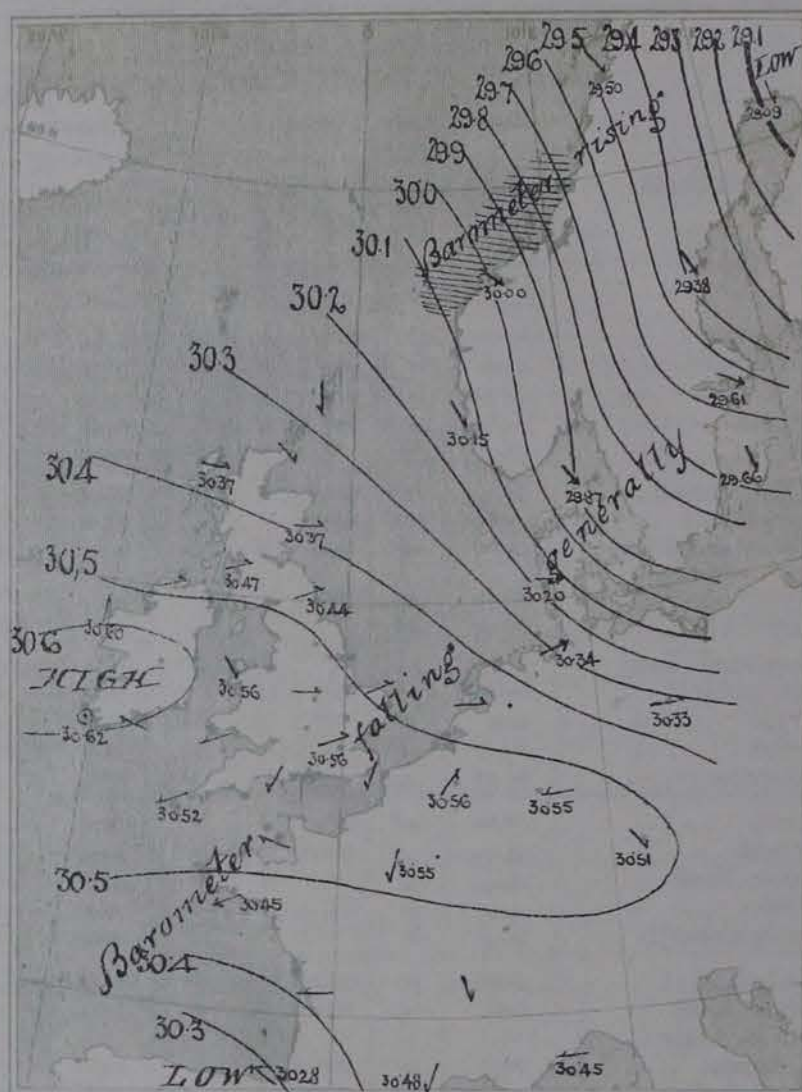
at 8.0 a.m. for the month of December.

During the 25 Years 1871—1890.

#### STATIONS.

#### MEAN READINGS.

STATIONS.	MEAN READINGS.
Sumburgh Head	29.673
Stormway	29.705
Wick	29.718
Nairn	29.743
Aberdeen	29.767
Leith	29.807
Shields	29.845
Spurn Head	29.873
York	29.899
Loughborough	29.924
Ardrossan	29.939
Mullaghmore	29.921
Donaghadee	29.848
Holyhead	29.879
Liverpool	29.895
Parsonstown	29.901
Valencia	29.905
Roche's Point	29.912
Pembroke	29.916
Scilly	29.931
Prawle Point	29.970
Jersey	29.985
Hurst Castle	29.978
Dover	29.953
LONDON	29.954
Oxford	29.955
Cambridge	29.941
Yarmouth	29.916





# GENERAL SITUATION AT 8 A.M.

## PRESSURE

Highest 30 ins. and more over the southern half of Ireland and exceeding 30½ ins. over nearly the whole of our Islands, France, southern Europe and Austria.

Lowest 29½ ins. and less at the northern extremity of the Gulf of Bothnia, below 29.5 ins. all over Lapland & the N. half of Sweden.

Gradients slight over our Islands, France and Germany, moderate over the eastern side of the North Sea, very steep over the northeastern half of Scandinavia.

Barometer rising again over the northern and western parts of Scandinavia & in the Shetlands, falling elsewhere.

Highest 49° at Nain, 47° at Stornoway and Ardrossan, 46° at Malin H., 44° at Holyhead.

## TEMPERATURE

Lowest (1) 19° at Haparanda, 32° at Helsingfors; (2) 1° at Murmuk, 18° at Paris, 19° at Wiesbaden, 20° at Lyons; (3) 23° at Dungeness, 24° in London, 25° at Oxford, 27° at Cambridge.

It had fallen fast at our southern stations in the night, risen in the A. but was falling sharply over Scandinavia.

## WIND

NW<sup>2</sup> strong to a gale over Sweden and Norway; NW<sup>2</sup> to W<sup>2</sup>, fresh, over Denmark and Holstein; W<sup>2</sup> moderate, in Scotland, calm over the central parts of Ireland and England, NE<sup>2</sup> in the

Channel and over the Bay of Biscay.

## WEATHER

Fine and bright over France, Ireland and Sweden, foggy over England, cloudy over Scotland, with rain at Wick, unsettled over Norway, with snow at Christiansund.

Some rain had fallen over Norway and the north of Scotland, and at Perpignan, snow at Murmuk. Dense fog prevailed over London last night.

## SEA

Rough on the northwest coast of Norway, moderate at our extreme northern stations and at Sully, smooth elsewhere.

PROBABLE CHANGES IN SYSTEM NOW PREVALENT

# FORECASTS

For the 24 hours ending at NOON on 1<sup>ST</sup> JANUARY. 1894.

## 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

NONE ISSUED

## WARNINGS

NONE ISSUED

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

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



# YESTERDAY'S 2 P.M. REPORTS.

	BAR.	THER.		WIND. Direc.	F.	WEA.	SEA.		BAR.	THER.		WIND. Direc.	F.	WEA.	SEA.
		Dry.	Wet.							Dry.	Wet.				
Skudesnaes ...	30.32	45	44	WSW	4	rf	4	Valencia ...	30.64	47	45	ESE	2	rm	2
Sumburgh Head ...	30.20	47	46	W	5	2	6	Scilly ...	30.58	47	42	E	4	c	4
Stornoway ...	30.41	48	43	W	4	0	4	Jersey ...	30.62	39	35	NE	4	b	3
Aberdeen ...	30.48	40	38	NW	1	bc	1	Hurst Castle ...	30.68	40	37	ESE	3	rm	1
Shields ...	30.61	47	44	SW	2	c	2	Dungeness ...	30.68	39	35	E	2	bc	2
Ardrossan ...	30.61	47	46	SSW	3	0	2	North Foreland ...	30.71	40	37	E	2	2	3
Malin Head ...	30.60	46	43	WSW	3	0	2	London ...	30.70	39	37	E	1	2	*
Mullaghmore ...								Yarmouth ...	30.69	37	36	SSE	2	m	2
Belmullet ...	30.63	47	45	SW	2	bc	*	Rochefort ...	30.50	33	30	E	3	b	*
Holyhead ...	30.67	46	45	S	1	0	1								

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

Weather in morning fine over central, western and southern Europe, fair in Ireland and Scotland, foggy over England; dull and unsettled over northern Europe, with rain in several places. Rain falling later over Norway and the extreme north of Scotland, and some showers (snow or rain) locally at several other Continental stations, heavy dew over England. Dense fog in London at night.

Temperature in morning below 50° at all stations. Highest (1) 48° at Wick, 47° at Sumburgh H., Nain and Ardrossan; (2) 49° at Algiers, 47° at Malta. Lowest (1) 10° F. at Munich and Kharkov, 14° at Kiev, 18° at Odessa, 21° at Belfast, Paris and Brussels; (2) 23° at Loughborough, 28° in London and at Cambridge. Falling fast over Scandinavia later and fall beginning to reach Scotland. Night very cold over the southern half of England.

Wind W<sup>2</sup> to S<sup>2</sup> over all the northern half of Europe, and blowing a gale over Scandinavia and Finland; E<sup>2</sup> to N<sup>2</sup> over the southern countries and blowing very strongly over the northern parts of the Adriatic and Italy; NW<sup>2</sup> over Turin and the south of Italy. Nearly calm over central Europe, the Netherlands and England. Gale veering to NW. over northern Europe later, and blowing very hard at Christiansund.

Barometer Highest 30.8 ins. and more over central Europe and exceeding 30.4 ins. in an anticyclone spreading thence across Holland, France and England to Ireland, and E<sup>2</sup> as far as the south of Russia. Lowest 29.3 ins. and less over Lapland and the north of Russia, and 31.0 ins. and less over Malta and the southeast of Sicily. Depression in far north moving southwards later.

### 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



# 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.		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 Yesterday Morn.	Dry Bulb.	Wet Bulb.	Change in dry since Yesterday.	Dir.	Force (0 to 12).				Max.	Min.			
1	Pembroke	29.72	51	SW	3	c	29.88	+0.3	39	36	- 12	NNE	5	bc	4	ghs	51	33	0.14		
"	Cape Gris Nez	29.84	48	SW	5	o	29.69	-2.9	43	-	- 2	S	2	o	2	o	46	39	-		
"	Corunna	"	"	"	"	"	29.62	-1.44	54	-	+ 6	S	7	o	5	"	57	45	-		
2	Cape Gris Nez	29.88	37	N	6	c	30.29	+6.0	33	-	- 10	SE	2	S	2	c	46	32	0.51		
"	Nice	29.81	48	E	1	r	29.93	+1.14	46	-	- 2	Z	0	bc	0	r	54	45	0.32		
"	Corunna	"	"	"	"	"	29.79	+1.7	49	46	- 5	SSE	2	r	5	"	54	46	-		
4	Corunna	"	"	"	"	"	30.24	-	49	43	-	NE	6	b	3	"	50	36	-		
5	Belfort	"	26	W	1	b	"	"	32	29	+ 9	E	1	o	"	b	32	"	0.04		
"	Corunna	"	"	"	"	"	30.28	+0.44	52	47	+ 3	N	1	o	2	"	52	45	-		
6	Corunna	"	"	"	"	"	30.15	-1.3	47	-	- 5	NE	1	o	2	"	55	45	-		
7	Corunna	"	"	"	"	"	30.10	-0.5	48	-	+ 1	S	1	m	5	"	52	41	-		
8	Valencia	"	"	"	"	"	29.20	-61	49	48	+ 44	SW	9	om	6	oght	53	45	0.17		
"	Nice	28.98	42	Z	0	b	29.83	-0.6	41	-	- 2	E	3	b	1	b	52	37	-		
9	Corunna	"	"	"	"	"	29.84	"	"	"	"	SW	1	"	7	"	57	41	0.08		
11	Corunna	"	"	"	"	"	29.88	-	53	45	-	NW	6	bc	5	"	59	45	1.10		
12	Perpignan	29.86	51	NW	6	o	30.04	+2.9	46	-	+ 6	NE	2	bc	"	o	67	40	-		
"	Corunna	"	"	"	"	"	29.72	-1.6	53	50	0	S	9	r	5	"	59	50	0.12		
13	Biarritz	29.88	50	SSW	6	o	29.93	-0.6	56	-	+ 11	S	2	o	5	o	52	45	0.04		
"	Corunna	"	"	"	"	"	29.84	+1.2	62	53	+ 9	SW	8	o	5	"	63	53	0.35		
14	The Helder	29.25	49	S	7	b	29.46	+0.44	44	-	+ 3	NW	4	r	2	b	50	41	0.43		
"	Corunna	"	"	"	"	"	30.00	+1.6	54	51	- 8	W	6	o	5	"	63	48	-		
15	Brest	"	48	NE	1	c	"	"	50	-	+ 4	WSW	2	o	6	c	55	37	-		
"	Corunna	"	"	"	"	"	30.58	+5.8	43	42	- 11	SE	3	b	3	"	55	37	-		
18	Brussels	"	"	"	"	"	30.23	-2.6	30	30	0	SSW	2	f	"	m	34	25	-		
"	Corunna	"	"	"	"	"	30.06	-	48	42	-	SE	6	b	2	"	55	34	-		
19	Biarritz	30.05	55	S	2	b	29.92	-1.5	51	45	+ 8	S	5	b	4	b	59	43	-		
"	Corunna	"	"	"	"	"	29.88	-1.8	"	"	"	S	"	"	"	"	59	39	-		
20	Corunna	29.81	57	W	6	o	29.85	-0.3	58	54	"	SW	6	o	6	o	59	48	0.04		
21	Corunna	30.16	58	W	5	c	30.15	+3.0	53	48	- 5	NW	7	o	7	c	59	39	0.08		
22	Biarritz	30.04	48	NW	5	r	30.17	+3.6	53	49	+ 6	NW	4	o	5	ptl	53	41	0.43		
"	Corunna	30.21	52	NW	6	o	30.17	+0.2	53	49	0	SW	5	o	5	o	55	45	0.04		
23	Biarritz	30.28	49	S	2	f	30.28	+1.1	52	"	- 1	WSW	4	o	2	f	57	46	0.16		
"	Corunna	30.26	55	SW	5	o	30.34	+1.7	56	55	+ 3	SW	5	r	5	o	57	48	0.20		
27	Biarritz	"	"	"	"	"	30.34	-1.6	32	-	- 5	E	3	m	5	m	46	28	-		
"	Corunna	30.42	54	N	5	bc	30.25	"	49	45	"	SE	5	b	4	bc	59	41	-		
28	Corunna	30.34	51	NE	3	b	30.31	+0.6	41	38	- 8	SE	5	b	2	b	52	36	-		
"	Lisbon	30.31	49	NW	1	b	30.32	-0.4	37	37	- 6	NNE	3	r	"	b	55	37	-		
29	Belfort	"	36	E	2	m	"	"	27	"	- 1	E	3	o	"	m	41	23	-		
"	Corunna	30.28	53	NW	4	b	30.35	+0.4	42	37	+ 1	SE	5	m	1	b	54	36	-		
30	Corunna	30.30	51	NE	4	b	30.29	-0.6	39	36	- 3	SE	5	b	2	b	52	32	-		



## 2. CORRECTIONS.

		YESTERDAY EVENING.					8 A.M. TO DAY.										PAST 24 HOURS			
DATE.	STATIONS.	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.	Dirce.	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.	Dirce.	Force (0 to 12).			Max.	Min.			
1	Nairn	29.77	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
-	Dunfermess	-	-	-	-	-	-	-	-	-	-	-	2	-	-	-	45	-		
3	Loughborough	-	-	-	-	-	30.38	-05	-	-	-	-	-	-	-	-	-	-		
-	Stornoway 2pm	-	-	-	-	-	29.97	-	-	-	-	-	-	-	-	-	-	-		
4	Loughborough	-	42	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
-	Hurst Castle	-	-	-	-	-	30.27	-18	-	-	-	-	-	-	-	-	-	-		
5	Loughborough	30.21	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
-	Parsonstown	-	-	-	-	-	-	-	-	-	-	-	-	-	-	50	42	-		
6	Hurst Castle	30.37	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
7	York	-	-	-	-	-	29.56	-44	-	-	-	-	-	-	-	-	-	-		
8	Loughborough	30.72	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
-	Ardrossan	-	-	-	-	-	-	-	-	-	-	-	r h g p	c b g r s pl	-	-	-	-		
9	Donaghadee	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	No rain		
10	Rocket Point	-	-	-	-	-	28.63	-69	-	-	-	-	-	-	-	-	-	-		
-	Pembroke	-	-	-	-	-	-	-	-	-	-	-	8	-	-	-	39	0.13		
11	Shields	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	34	-		
12	Loughborough	-	-	-	-	-	-	-	-	-	-	-	-	-	-	42	-	-		
-	Malin Head	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.04		
-	Jersey	-	-	-	-	-	29.61	+11	-	-	-	-	-	-	-	-	-	-		
13	Liverpool	29.10	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
14	Silly	-	-	-	-	-	-	-	-	-	-	-	-	-	-	54	-	-		
-	Hurst Castle	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.78		
15	Aberdeen	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	No rain		
-	Prawle Point	-	-	-	-	-	-	-	-	-	-	-	-	-	-	51	-	-		
16	Malin Head	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.23		
-	Hurst Castle	-	-	-	-	-	-	-	-	-	-	-	4	-	-	-	46	-		
17	Malin Head	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.04		
18	London	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	35	-		
21	Prawle Point	29.06	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
22	Pembroke	-	-	-	-	-	-	-	-	-	-	5	-	-	-	-	-	-		
24	Parsonstown	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	40	-		
25	Belmullet	-	-	-	-	-	-	-	-	-	-	-	-	-	-	50	-	-		
-	Jersey	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	43	-		
26	Nairn	29.74	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
-	Ardrossan	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.07		
-	Pembroke	28.25	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
28	North Ireland	30.51	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
29	Ardrossan	-	-	-	-	-	30.61	+23	-	-	-	-	-	-	-	-	-	-		
30	Yarmouth	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	No rain		
31	Sumburgh Hd	-	-	-	-	-	30.31	+09	-	-	-	-	-	-	-	-	-	-		
-	Ardrossan	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	45	-		
-	Hurst Castle	-	-	-	-	-	30.57	-	-	-	-	-	-	-	-	-	-	-		