

METEOROLOGICAL OFFICE.

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DAILY WEATHER REPORTS.

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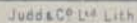
1<sup>ST</sup> JANUARY TO 30<sup>TH</sup> JUNE, 1893.

28.4 94

*See High Land.*

January to June 1893.

January to June 1893.



# DAILY WEATHER REPORT

for 2 a.m. on Wednesday, 1<sup>st</sup> February, 1893

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

YESTERDAY EVENING. (See note at bottom of last page.)																	THIS MORNING. (See note at bottom of last page.)																	PAST 24 HOURS.				
STATIONS.																																						
BAROM.																	SHADE TEMP.																	SHADE TEMP.				
WIND.																	WIND.																	WIND.				
Force																	Force																	Force				
Weather.																	Weather.																	Weather.				
Reading at 32° F. and Sea Level.																	Reading at 32° F. and Sea Level.																	Reading at 32° F. and Sea Level.				
Dry Bulb.																	Dry Bulb.																	Dry Bulb.				
Wet Bulb.																	Wet Bulb.																	Wet Bulb.				
Change in dry since Yesterday.																	Change in dry since Yesterday.																	Change in dry since Yesterday.				
Direc.																	Direc.																	Direc.				
Force																	Force																	Force				
Weather.																	Weather.																	Weather.				
Sea (10 to 12).																	Sea (10 to 12).																	Sea (10 to 12).				
Max.																	Max.																	Max.				
Min.																	Min.																	Min.				
Amount of Rainfall.																	Amount of Rainfall.																	Amount of Rainfall.				
Ins.																	Ins.																	Ins.				
Haparanda ...																	Haparanda ...																	Haparanda ...				
Hernösand ...																	Hernösand ...																	Hernösand ...				
Stockholm ...																	Stockholm ...																	Stockholm ...				
Visby ...																	Visby ...																	Visby ...				
Bodö ...																	Bodö ...																	Bodö ...				
Christiansund...																	Christiansund...																	Christiansund...				
Skudesnaes ...																	Skudesnaes ...																	Skudesnaes ...				
Christiania Fjord																	Christiania Fjord																	Christiania Fjord				
(Færd)																	(Færd)																	(Færd)				
Skagen (The Sea)																	Skagen (The Sea)																	Skagen (The Sea)				
Fanö ...																	Fanö ...																	Fanö ...				
Sumburgh Head																	Sumburgh Head																	Sumburgh Head				
Stornoway ...																	Stornoway ...																	Stornoway ...				
Wick ...																	Wick ...																	Wick ...				
Nairn ...																	Nairn ...																	Nairn ...				
Aberdeen ...																	Aberdeen ...																	Aberdeen ...				
Leith ...																	Leith ...																	Leith ...				
Shields ...																	Shields ...																	Shields ...				
Spurn Head ...																	Spurn Head ...																	Spurn Head ...				
York ...																	York ...																	York ...				
Loughborough																	Loughborough																	Loughborough				
Ardrossan ...																	Ardrossan ...																	Ardrossan ...				
Malin Head ...																	Malin Head ...																	Malin Head ...				
Mullaghmore ...																	Mullaghmore ...																	Mullaghmore ...				
Behnullet ...																	Behnullet ...																	Behnullet ...				
Donaghadee ...																	Donaghadee ...																	Donaghadee ...				
Liverpool (Ridston)																	Liverpool (Ridston)																	Liverpool (Ridston)				
Holyhead ...																	Holyhead ...																	Holyhead ...				
Parsonstown ...																	Parsonstown ...																	Parsonstown ...				
Valencia...																	Valencia...																	Valencia...				
Roche's Point																	Roche's Point																	Roche's Point				
Pembroke (St. Ann's Hd.)																	Pembroke (St. Ann's Hd.)																	Pembroke (St. Ann's Hd.)				
Scilly ...																	Scilly ...																	Scilly ...				
Prawle Point ...																	Prawle Point ...																	Prawle Point ...				
Jersey (St. Aubin's)																	Jersey (St. Aubin's)																	Jersey (St. Aubin's)				
Hurst Castle ...																	Hurst Castle ...																	Hurst Castle ...				
Dungeness ...																	Dungeness ...																	Dungeness ...				
North Foreland																	North Foreland																	North Foreland				
London ...																	London ...																	London ...				
Oxford ...																	Oxford ...																	Oxford ...				
Cambridge ...																	Cambridge ...																	Cambridge ...				
Yarmouth ...																	Yarmouth ...																	Yarmouth ...				
Cuxhaven ...																	Cuxhaven ...																	Cuxhaven ...				
Berlin ...																	Berlin ...																	Berlin ...				
Wiesbaden ...																	Wiesbaden ...																	Wiesbaden ...				
Munich ...																	Munich ...																	Munich ...				
The Helder ...																	The Helder ...																	The Helder ...				
Brussels (9 a.m.)																	Brussels (9 a.m.)																	Brussels (9 a.m.)				
Cape Gris Nez																	Cape Gris Nez																	Cape Gris Nez				
Paris ...																	Paris ...																	Paris ...				
Brest ...																	Brest ...																	Brest ...				
Lorient ...																	Lorient ...																	Lorient ...				
Rochefort ...																	Rochefort ...																	Rochefort ...				
Belfort ...																	Belfort ...																	Belfort ...				
Lyons ...																	Lyons ...																	Lyons ...				
Nice ...																	Nice ...																	Nice ...				
Perpignan ...																	Perpignan ...																	Perpignan ...				
Biarritz ...																	Biarritz ...																	Biarritz ...				
Corunna ...																	Corunna ...																	Corunna ...				
Lisbon ...																	Lisbon ...																	Lisbon ...				

For Explanation of Columns, see bottom of last page

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

# WEATHER CHARTS

for 8 a.m. on Wednesday, 1<sup>st</sup> Feb: 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.

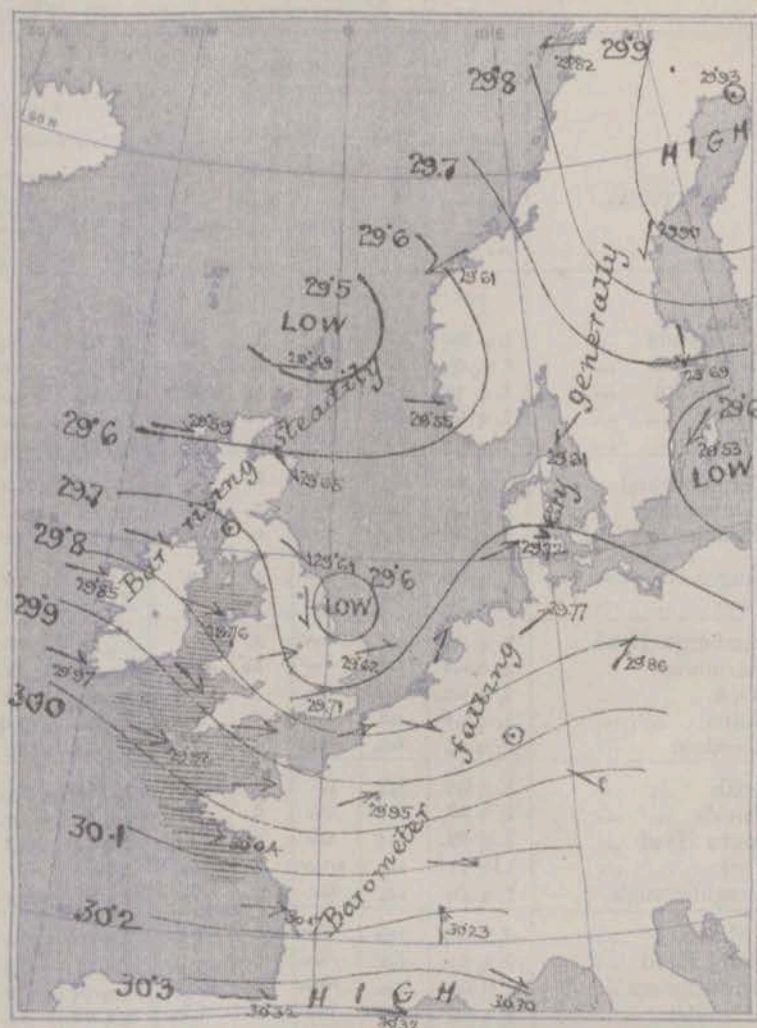
**SEA DISTURBANCE**—Where considerable, is shown thus:

☼ = Rough. ☼ = High.

## MEAN HEIGHT OF THE BAROMETER

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

STATIONS.	MEAN READINGS.
Sumburgh Head	29.770
Stornoway	29.773
Wick	29.804
Nairn	29.814
Aberdeen	29.816
Leith	29.870
Shields	29.900
Spurn Head	29.931
York	29.939
Loughborough	29.963
Ardrossan	29.979
Mullaghmore	29.984
Donaghadee	29.984
Holyhead	29.914
Liverpool	29.984
Parsonstown	29.900
Valencia	29.912
Roche's Point	29.910
Pembroke	29.937
Selly	29.959
Prawle Point	29.993
Jersey	30.007
Hurst Castle	29.986
Dover	29.985
LONDON	29.989
Oxford	29.985
Cambridge	29.979
Yarmouth	29.964



## 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.

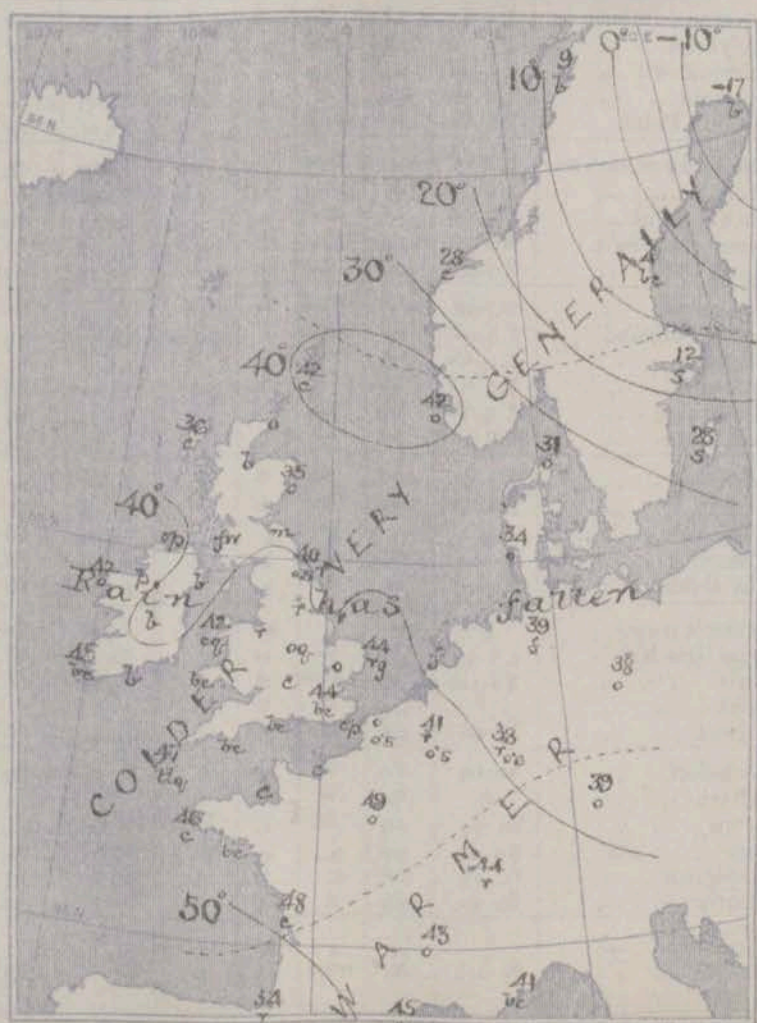
**RAINFALL**—A dotted line separates the districts in which rain has fallen from those where there has been none. Falls of 0.5 in. or more are quoted in figures.

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

(For the month of February.)

STATIONS.	TEMPERATURE.				RAINFALL. inches.
	Daily Max.	Daily Min.	at 8 a.m.	at 4 p.m.	
Sumburgh Head	43.4	34.6	38.5	37.4	3.19
Stornoway	43.5	34.6	39.1	38.1	3.84
Wick	43.1	33.2	38.1	36.7	2.04
Nairn	43.4	33.4	37.1	35.4	1.48
Aberdeen	43.2	33.8	37.3	35.7	2.35
Leith	45.7	34.3	38.0	37.1	1.45
Shields	43.8	35.1	38.0	37.0	1.50
Spurn Head	42.3	35.9	38.4	37.0	1.36
York	44.6	33.9	37.5	36.4	1.70
Loughborough	40.3	33.9	37.5	36.1	1.78
Ardrossan	44.6	35.3	39.1	38.2	3.04
Mullaghmore	40.6	35.6	42.0	40.3	2.09
Donaghadee	45.0	35.2	40.3	39.3	2.42
Holyhead	45.5	38.7	41.5	40.1	2.60
Liverpool	44.5	36.3	38.9	37.3	1.60
Parsonstown	40.6	35.6	39.1	38.1	2.20
Valencia	42.7	40.7	41.6	42.0	4.99
Roche's Point	48.4	39.6	43.1	41.6	1.33
Pembroke	43.5	39.4	42.1	40.0	2.82
Selly	48.0	42.8	46.0	44.4	2.71
Prawle Point	46.8	38.1	41.5	40.5	2.02
Jersey	45.9	39.3	42.3	41.0	2.55
Hurst Castle	45.7	36.7	40.3	39.3	2.25
Dover	44.4	35.1	39.2	38.1	1.95
LONDON	45.5	35.1	38.0	37.4	1.73
Oxford	45.0	34.2	37.9	36.8	1.92
Cambridge	45.5	32.8	37.8	36.2	1.46
Yarmouth	42.6	34.6	38.2	37.3	1.82

NOTE.—The Temperature means are for the 20 years 1871-90, the Rainfall means are mostly those for the 23 years 1866-90.



# GENERAL SITUATION AT 8 A.M.

## PRESSURE

Highest, 30.3 in. and upwards over Spain and the extreme south of France.  
 Lowest, 29.5 in. and less, in a depression lying near the Shetlands; 29.6 in. and less, in two other systems, — one situated off the east of England and the other the Baltic.  
 Gradients moderate over France and the southeast of England, slight elsewhere.  
 Barometer rising in the west and north of our Islands, but falling at our southeastern and most of the Continental stations.

## TEMPERATURE

Highest, 54° at Chisley, 50° at Luton, 49° at Forest and Paris, 48° at Rochefort, 47° at Seilly and 46° at Seilly and Brest.  
 Lowest, -17° at Haparanda, +4° at Helsingfors, 9° at Oslo, 12° at Stockholm, 24° at Jönköping, and 28° at Visby and Christiansund.  
 In the course of yesterday the thermometer rose to between 50° and 53° in many parts of the United Kingdom.

## WIND

Moderate to strong from the W<sup>nd</sup> over the west and south of our Islands and the greater part of France, and light from the same quarter in Scotland.  
 Light from the SW<sup>nd</sup> over North Germany, the Netherlands, and the east of England.  
 Moderate to strong from the E<sup>nd</sup> in the west of Norway, and from the NE<sup>nd</sup> or N<sup>nd</sup> in the south of Scandinavia.

## WEATHER

Rainy in the north and east of England, and showery at some of the Channel stations, with thunder and lightning at Seilly.  
 Fine at several of our western and northern stations, but showery in the north of Ireland.  
 Dull on the Continent, with fog at Cuxhaven and the Helde, rain at Brussels and Utrecht, and snow in the south of Sweden.  
 Rain has fallen in most parts of Western Europe. Solar and lunar halos were seen yesterday at several of our own stations.

## SEA

Rough off the northwest of France, and rather rough on several parts of our own western and southern coasts.

## PROBABLE CHANGES IN SYSTEM NOW PREVALENT

The depression off the east of England appears to have passed across our Islands during the night, and is travelling eastwards. There at present no indications of the advance of any fresh disturbances, but the general conditions are still very unsettled.

## FORECASTS

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

### DISTRICTS.

### FORECASTS.

- |   |                  |   |
|---|------------------|---|
| 0 | SCOTLAND NORTH   | } W <sup>ly</sup> winds, light; fair generally, but perhaps local showers.                          |
| 1 | SCOTLAND EAST    |   |
| 2 | ENGLAND N.E.     | W <sup>ly</sup> and NW <sup>ly</sup> winds, light; showery to fair.                                 |
| 3 | ENGLAND EAST     | } Same as No. 5.  |
| 4 | MIDLAND COUNTIES |   |
| 5 | ENGLAND SOUTH    | W <sup>ly</sup> winds, strong to moderate; squally and showery at first then fair. Becoming colder. |

### DISTRICTS.

### FORECASTS.

- |    |               |  |
|----|---------------|--|
| 6  | SCOTLAND WEST | } Same as No. 0 and 1.   |
| 7  | ENGLAND N.W.  |  |
| 8  | ENGLAND S.W.  | } NW <sup>ly</sup> winds, strong, to W <sup>ly</sup> , moderate; showery to fair.                |
| 9  | IRELAND NORTH |  |
| 10 | IRELAND SOUTH | } W <sup>ly</sup> to SW <sup>ly</sup> or S <sup>ly</sup> winds; fair to unsettled and some rain. |
|    | WARNINGS      |  |
|    |               | NONE ISSUED.   |

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

# YESTERDAY'S 2 P.M. REPORTS.

	BAR.	THER.		WIND Dir. or Force	F.	WEA	SEA.		BAR.	THER.		WIND Dir. or Force	F.	WEA	SEA.
		Dry.	Wet.							Dry.	Wet.				
Skudesnaes ...	29.54	41	41	SSE	6	f	4	Valencia ...	29.80	51	47	WSW	4	chrp	4
Sumburgh Head ...	29.35	44	43	2	0	c	4	Scilly ...	29.96	52	51	SW	4	o	5
Stornoway ...	29.32	44	43	SW	6	o	5	Jersey ...	30.08	51	50	WSW	3	o	3
Aberdeen ...	29.45	48	43	WSW	3	bc	3	Hurst Castle ...	30.01	46	45	SW	5	cm	4
Shields ...	29.64	50	46	SW	5	b	2	Dungeness ...	30.00	46	46	WSW	5	m	4
Ardrossan ...	29.56	46	44	SW	4	c	3	North Foreland ...	29.98	51	50	WSW	2	o	3
Malin Head ...	29.94	46	43	SW	6	b	4	London (Westminster) ...	29.98	54	50	SW	2	o	3
Mullaghmore ...	29.63	48	47	WSW	4	cp	4	Yarmouth ...	29.87	51	48	W	4	cm	3
Belmullet ...	29.65	48	45	SW	5	b	5	Rocheport ...	30.23	50	48	SSE	3	c	4
Holyhead ...	29.80	49	47	SW	5	b	5								

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

Weather in morning fine and bright on the southern shores of the Mediterranean, the south and west of Ireland and at several stations over the British Islands and northwestern Europe, cloudy or overcast elsewhere. Changeable over northern and northern Europe generally with showers in some places. Rain at times during day throughout the United Kingdom and France - amounts moderate.

Temperature in morning 50° to 54° on the Algerian coast and 53° to 57° on the western and northern coasts of the Peninsula, 50° at Hurst and Scilly, lower elsewhere; above 40° over the British Islands and France generally. Lowest - T. F. at Archangel, and -1° to +3° at stations over Central Russia; 5° at Hafavandar, 18° at Hemösand and Riga, but much higher at the Baltic coast stations. Rising later to between 50° and 53° at many of our own stations, to between 50° and 55° in many parts of France, and to 64° at Biarritz.

Wind SW<sup>2</sup> to S<sup>3</sup> over the British Islands, the North Sea, and the German Ocean - moderate to fresh in force generally, and blowing strongly at several of our own coast stations; a moderate gale at Genoa, light to moderate and variable over the eastern, central, and southern coasts as well as over the Mediterranean. Wind force varying over our Islands later - decreasing as a whole; little change elsewhere.

Barometer highest 30.4 ins. and more to 30.0 ins. over Spain, France, central and eastern Europe and the Mediterranean. Lowest 29.7 ins. and less in a shallow depression over Ireland, and 29.3 ins. and less in a more important system off the northwest of Scotland. Gradients moderate over the United Kingdom, slight elsewhere. Rising at our northern and northwestern stations later, falling over France.

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

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

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

N.B.—The morning observations are made at 8 a.m. in the British Islands, Germany, Sweden, and Norway, 7 a.m. in France, Spain and Portugal, and 9 a.m. in Belgium. The evening observations are made at 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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“ Weekly “ “ “ £1 10 0 “

# DAILY WEATHER REPORT

for 8 a.m. on THURSDAY 2<sup>ND</sup> FEBRUARY. 1893

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

		YESTERDAY EVENING. (See note at bottom of last page.)					THIS MORNING. (See note at bottom of last page.)										PAST 24 HOURS.				
STATIONS.		Barom.	Temp.	Wind.			Barometer.	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.	Amount of Rainfall.		
		Reading at 5 P.M. and Sea Level.	Dry Bulb.	Dir.	Force (0 to 12).	Weather.	Reading at 8 P.M. 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.	Amount of Rainfall.		
		Inch.	°				Inch.		°	°									Inch.		
SCANDINAVIA.	Haparanda ...	29.84	-51	2	0	b	29.81	-22	22	22	-5	2	0	bc	*	b	0	-51	—		
	Hernösand ...	29.83	11	2	0	b	29.80	00	-6	-7	-10	2	0	bc	*	b	0	-13	—		
	Stockholm ...	29.84	6	N	4	0	29.84	+20	-6	-7	-10	2	0	b	*	0	2	—	—		
	Wisby ...	29.84	16	N	4	0	29.86	+15	17	16	-11	N	4	0	0	0	30	14	0.004		
	Bodö ...	29.69	27	NW	4	bc	29.81	-01	22	20	+13	E	2	b	1	bc	27	7	—		
	Christiansund...	29.78	24	E	4	b	29.84	+12	24	22	-4	E	4	b	3	b	2	23	—		
	Skudesnaes ...	29.77	36	SW	8	0	29.81	+26	35	34	-7	SE	6	0	5	of 0	41	22	—		
	Christiania Fjord (Færder)	29.91	17	NNE	4	0	29.87	+28	16	15	-8	NNE	3	0	2	0	25	16	—		
	Skagen (The Seaw)	29.91	21	NNE	1	0	29.87	+24	22	21	-5	NNE	1	0	0	0	22	15	—		
	Fanö ...	29.82	23	NW	1	m	29.89	+17	30	30	-4	SE	2	0	*	m	36	30	0.001		
BRITISH ISLANDS.	Sumburgh Head	29.58	42	W	2	c	29.57	+08	40	38	-2	SE	1	c	4	bc, c	46	36	0.14		
	Stornoway ...	29.64	40	2	0	c	29.52	-07	37	36	+1	W	2	0	3	T, c	44	34	0.004		
	Wick ...	29.65	42	NW	2	bc	29.53	-04	37	36	-1	NW	2	0	2	bc	48	35	0.10		
	Nairn ...	29.70	38	SW	1	b	29.56	-08	36	35	+1	SW	1	0	1	b	48	32	—		
	Aberdeen ...	29.77	38	SW	2	b	29.60	-05	35	33	0	W	2	bc	3	b, f	45	35	0.02		
	Leith ...	29.82	39	SW	2	b	29.63	-05	40	38	+1	NW	2	bc	*	b	47	37	0.03		
	Shields ...	29.84	41	NW	2	b	29.68	+07	38	38	-1	SW	2	0	2	b, f	47	36	0.03		
	Spurn Head ...	29.91	40	NW	3	b	29.75	+20	41	41	+1	W	4	7	3	b, f	41	37	0.17		
	York ...	29.93	41	NW	1	b	29.76	+15	42	41	+2	W	2	0	*	b	51	36	0.15		
	Loughborough	30.00	41	W	2	0	29.85	+24	45	44	+3	NW	3	7	*	og	48	37	0.17		
GERMANY & HOLLAND.	Ardrossan ...	29.80	43	SW	2	0	29.67	-05	42	41	+8	W	4	b	3	c, 0	45	36	0.14		
	Malin Head ...	29.71	40	SW	6	0	29.65	-08	42	41	-1	NW	5	0	4	c, 0	45	38	0.10		
	Mullaghmore ...	29.72	41	SW	6	og	29.75	-04	45	44	+2	NW	5	og	4	og, f	46	39	0.41		
	Belmullet ...	29.75	47	NW	5	og	29.81	-04	45	44	+3	W	4	0	3	T, og, b	47	40	0.24		
	Donaghadee ...	29.85	44	SW	3	T	29.75	00	42	42	+3	W	5	T	3	T	47	38	0.21		
	Liverpool (Bidston)	29.88	42	SW	2	0	29.80	+13	41	40	+3	W	5	T	3	0	48	38	0.15		
	Holyhead ...	29.86	43	SW	4	og	29.83	+07	42	42	0	NW	3	og	3	b, og	47	40	0.08		
	Parsonstown ...	29.88	42	SW	1	T	29.89	+01	45	44	+0	SW	1	og	*	T	49	34	0.03		
	Valencia ...	29.88	51	SW	6	om	30.02	+05	51	50	+6	SW	6	og	6	T, om	52	45	0.15		
	Roche's Point	30.02	47	NW	4	og	29.87	+05	51	49	+9	W	5	bc	4	c, f	51	42	0.25		
FRANCE AND BELGIUM.	Pembroke (St. Ann's Hd.)	30.02	46	NW	5	T	29.83	+08	49	48	+6	NW	8	og	8	T	55	42	0.14		
	Scilly ...	30.17	48	SW	6	0	30.14	+22	51	50	+4	NW	6	og	5	c, og	57	45	0.01		
	Prawle Point ...	30.17	44	NW	3	c	30.11	+20	47	47	+5	NW	7	om	5	c, f	45	41	0.10		
	Jersey (St. Aubin's)	30.23	47	NW	3	og	30.23	+20	49	48	+3	W	4	om	4	og	51	45	0.12		
	Hurst Castle ...	30.14	42	W	4	b	30.04	+22	45	44	+1	NW	6	og	4	og	47	41	0.11		
	Dungeness ...	30.04	43	NW	4	b	29.86	+22	44	44	0	W	5	2	4	b, b	45	40	0.04		
	North Foreland	29.88	44	NW	5	c	29.83	+23	46	45	+1	NW	2	og	3	c	47	44	0.06		
	London ...	30.06	44	W	1	bc	29.86	+25	47	46	+3	SW	3	og	*	c, og	48	40	0.10		
	Oxford ...	30.07	42	W	1	T	29.83	+20	48	46	+5	NW	3	T	*	c, T	45	41	0.15		
	Cambridge ...	30.06	41	W	2	c	29.81	+24	46	45	+2	SW	2	T	*	c	47	38	0.06		
PENINSULAR.	Yarmouth ...	29.91	41	NW	4	b	29.86	+24	43	42	-1	NW	3	og	3	og, b	44	36	0.24		
	Cuxhaven ...	29.75	38	NNE	1	f	29.91	+14	38	37	-1	W	2	c	*	f	40	36	0.06		
	Berlin ...	29.80	38	NW	2	f	29.83	+07	37	37	-1	W	2	T	*	T	37	36	0.03		
	Wiesbaden ...	30.00	35	SW	2	T	30.12	+30	35	35	+1	W	2	0	*	*	37	37	0.01		
	Munich ...	30.00	35	SW	2	T	30.15	+11	36	35	-3	W	7	T	*	T	48	34	0.12		
	The Helder ...	29.81	27	NW	3	0	29.85	+22	37	37	-2	SW	4	0	3	0	41	37	0.03		
	Brussels (a.m.)	30.04	42	SW	6	c	30.04	+26	41	41	0	NW	4	0	*	0	46	37	0.03		
	Cape Gris Nez	30.01	43	NW	6	c	29.87	+26	44	44	+4	NW	6	f	6	c	45	37	0.12		
	Paris ...	30.18	47	W	5	bc	30.23	+28	45	43	-4	SW	3	f	*	bc	51	37	0.01		
	Brest ...	30.22	47	NW	4	c	30.23	+28	50	49	+4	NW	4	c	4	c	52	45	—		
FRANCE AND BELGIUM.	Lorient ...	30.32	47	NW	5	c	30.33	+29	50	48	+1	W	4	0	2	c	52	48	—		
	Rocheport ...	30.36	47	NW	4	b	30.27	+22	44	42	-4	NW	3	b	*	c, b	52	43	0.04		
	Belfort ...	30.35	45	W	3	T	30.27	+22	44	41	0	W	4	T	*	T	44	39	0.04		
	Lyons ...	30.33	45	NW	2	bc	30.45	+22	40	38	-3	E	1	0	*	bc	41	40	0.04		
	Nice ...	29.89	35	SW	2	m	30.13	-17	48	48	+7	SW	1	0	2	*	*	61	41	—	
	Perpignan ...	30.36	56	NW	4	b	30.43	+11	50	48	+5	NW	3	b	2	b	64	45	—		
	Biarritz ...	30.44	53	NW	3	bc	30.48	+16	46	44	-8	SW	2	b	3	bc	55	43	—		
	Corunna ...	30.47	52	NW	4	c	30.41	-07	48	48	-2	N	3	0	*	*	53	46	—		
	Lisbon ...	30.47	52	NW	4	c	30.41	-07	48	48	-2	N	3	0	*	*	53	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 Thursday, 2<sup>nd</sup> February 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:

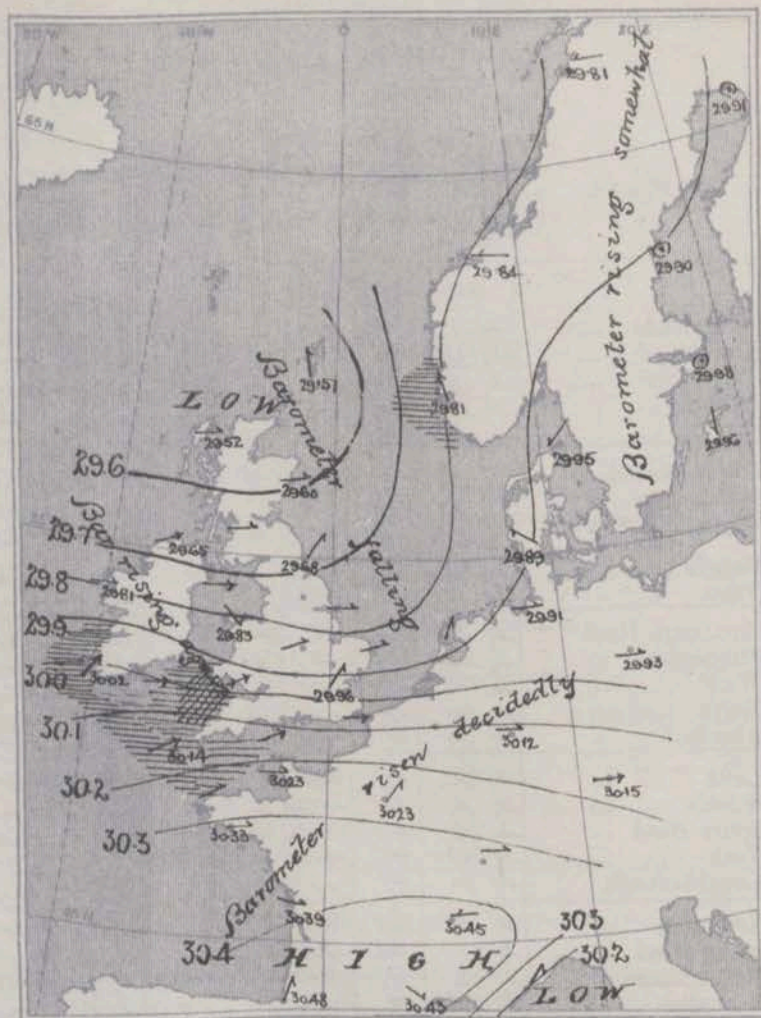
— = Rough. — = High.

## MEAN HEIGHT OF THE BAROMETER

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

During the 29 Years: 1871—1890.

STATIONS.	MEAN READINGS.
Samburgh Head .....	29.775
Stornoway .....	29.773
Wick .....	29.804
Nairn .....	29.814
Aberdeen .....	29.848
Leith .....	29.870
Shields .....	29.906
Spurn Head .....	29.934
York .....	29.939
Loughborough .....	29.963
Androssan .....	29.873
Mullaghmore .....	29.854
Donaghadee .....	29.884
Holyhead .....	29.914
Liverpool .....	29.934
Parsonstown .....	29.908
Valencia .....	29.919
Roche's Point .....	29.916
Pembroke .....	29.937
Selly .....	29.939
Prawle Point .....	29.993
Jersey .....	30.007
Hurst Castle .....	29.986
Dover .....	29.985
LONDON .....	29.949
Oxford .....	29.985
Cambridge .....	29.979
Yarmouth .....	29.964



## 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.

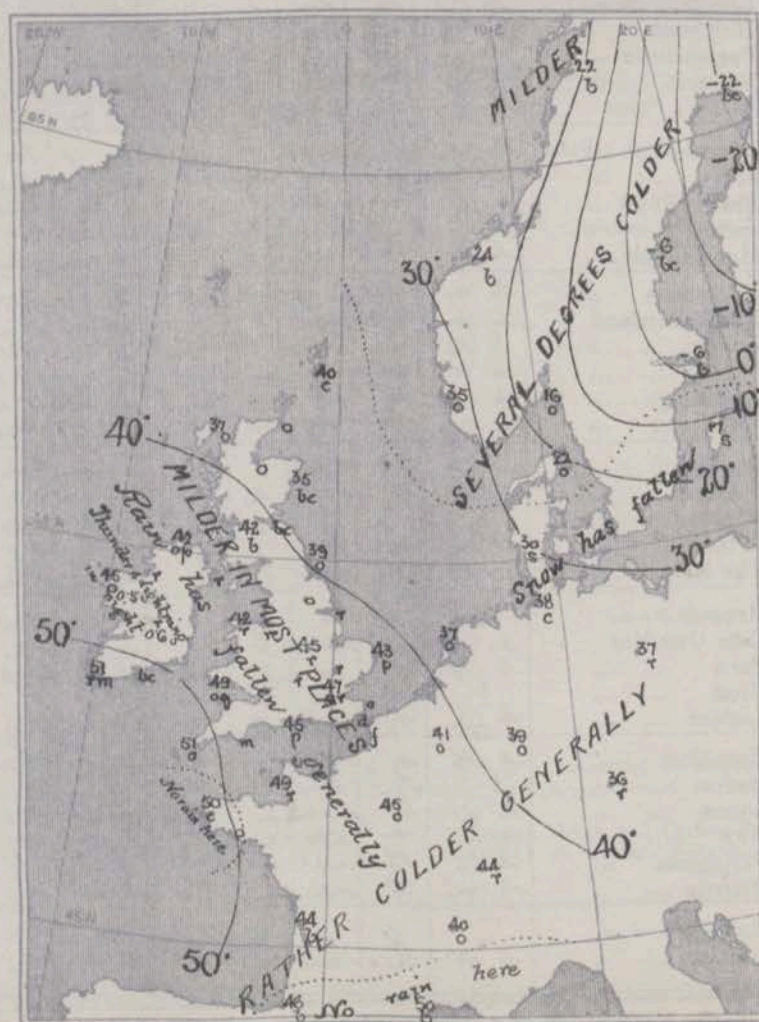
**RAINFALL**—A dotted line separates the districts in which rain has fallen from those where there has been none. Falls of 0.5 in. or more are quoted in figures.

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

(For the month of February.)

STATIONS.	TEMPERATURE.				RAINFALL. (Inches.)
	Daily Max.	Daily Min.	Daily at 8 a.m.	Daily at 8 a.m.	
Samburgh Head .....	42.4	34.6	38.5	37.4	3.19
Stornoway .....	43.5	34.6	39.1	38.1	3.86
Wick .....	43.1	33.2	38.1	36.7	2.04
Nairn .....	43.4	33.4	37.1	35.4	1.48
Aberdeen .....	43.2	33.8	37.3	35.7	2.35
Leith .....	45.7	34.3	38.6	37.1	1.45
Shields .....	43.8	35.1	38.6	37.3	1.50
Spurn Head .....	42.8	35.9	38.4	37.6	1.36
York .....	44.6	33.9	37.5	36.4	1.70
Loughborough .....	43.3	33.9	37.5	36.4	1.78
Androssan .....	44.6	36.3	39.4	38.2	3.04
Mullaghmore .....	45.6	38.6	42.0	40.3	3.00
Donaghadee .....	45.6	36.0	40.3	39.3	2.42
Holyhead .....	45.5	38.7	41.5	40.1	2.60
Liverpool .....	44.5	36.2	38.0	37.3	1.69
Parsonstown .....	46.9	35.6	39.4	38.1	2.20
Valencia .....	49.7	40.7	44.6	42.9	4.96
Roche's Point .....	48.4	39.6	43.1	41.6	4.43
Pembroke .....	45.5	39.4	42.1	40.9	2.84
Selly .....	48.9	42.8	49.0	44.4	2.71
Prawle Point .....	48.8	38.1	41.5	40.5	2.02
Jersey .....	45.0	39.3	42.3	41.0	2.55
Hurst Castle .....	45.7	36.7	40.3	39.3	2.25
Dover .....	44.4	36.1	39.2	38.1	1.95
LONDON .....	45.5	35.1	38.6	37.4	1.73
Oxford .....	45.0	34.6	37.9	36.8	1.92
Cambridge .....	45.5	32.8	37.3	36.2	1.46
Yarmouth .....	49.6	34.6	38.2	37.3	1.83

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



# GENERAL SITUATION AT 8 A.M.

## PRESSURE

Highest, 30.4 in. and upwards, over Spain and the southern parts of France.  
 Lowest, 29.6 in. and less, in a depression lying over the north of Scotland.  
 Gradients moderate over the southern parts of our Islands, but slight elsewhere.  
 Barometer falling a little in many parts of the United Kingdom, but rising at most of the Continental stations.

## TEMPERATURE

Highest, 51° at Valencia Island, Rocherpoint, and Lelly, 50° at Brest, Lorient, and Perpignan, and 49° at Pembroke and Jersey.  
 Lowest, -22° Fahr. at Haparanda, -6° at Helsingfors and Stockholm, +16° at Tander, 17° at Narvik, and 22° at Bodø and Skagen.  
 Slight frost was experienced last night in some parts of Scotland.

## WIND

W<sup>3</sup> or SW<sup>3</sup> over the United Kingdom, France, Germany, and the Netherlands; strong in force on our south and southwest coasts, with a gale at Pembroke.  
 SE<sup>3</sup> on the eastern shores of the North Sea, and E<sup>3</sup> in the coast of Norway; calm in Sweden.

## WEATHER

Dull in nearly all parts of Western Europe, with rain at many of the English, Irish, and German stations, and with snow at Tanö.  
 Fine in the south and east of England and also over the southern parts of France.  
 Rain has fallen at most of our own and the French stations. A solar halo was seen yesterday at Pabbacombe, and lunar halos in several parts of Great Britain. Thunder and lightning occurred at Kilmullet last night.

## SEA

High at Pembroke and rather rough off the southwest of England, as well as at Skudenes, moderate or slight elsewhere.

## PROBABLE CHANGES IN SYSTEM NOW PREVALENT

Secondary depressions are advancing over Ireland and England from the westward, and strong winds seem likely to continue on our western and southern coasts, with gales in some of the more exposed places.

# FORECASTS

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

## DISTRICTS.

## FORECASTS.

0	SCOTLAND NORTH	W <sup>3</sup> winds, light; changeable, some showery.
1	SCOTLAND EAST	
2	ENGLAND N.E.	SW <sup>2</sup> and W <sup>2</sup> winds, moderate; changeable, some rain.
3	ENGLAND EAST	
4	MIDLAND COUNTIES	
† 5	ENGLAND SOUTH	SW <sup>2</sup> and W <sup>2</sup> winds, moderate or fresh inland, strong on coast; squally, rain at times.

## DISTRICTS.

## FORECASTS.

6	SCOTLAND WEST	Same as Nos 0 and 1.
† 7	ENGLAND N.W.	
† 8	ENGLAND S.W.	W <sup>2</sup> winds, strong, a gale in places; squally, rain at times.
† 9	IRELAND NORTH	
† 10	IRELAND SOUTH	
WARNINGS		At 3:30 pm yesterday to districts 7 to 10 and part of 5 "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 ...	29.57	47	43	S	6	of	4	Valencia ...	29.96	46	40	S	4	7 m	4	
Sumburgh Head ...	29.55	41	39	W	2	bc	4	Scilly ...	29.13	49	46	W N W	6	c	5	
Stornoway ...	29.66	40	40	W	2	P	3	Jersey ...	29.11	50	46	W N W	4	bc	4	
Aberdeen ...	29.73	44	39	W	2	b	2	Hurst Castle ...	29.02	46	44	W N W	6	b	4	
Shields ...	29.80	49	43	W N W	3	b	2	Dungeness ...	29.85	48	43	W N W	7	bc	6	
Ardrossan ...	29.81	45	43	W N W	1	c	2	North Foreland ...	29.81	44	42	W N W	1	c	5	
Malin Head ...	29.75	43	41	W	5	o	3	London ...	29.89	49	43	W	4	bc	*	
Mullaghmore ...	29.84	44	41	W	4	og	3	Yarmouth ...	29.64	41	40	W	5	og	4	
Belmullet ...	29.83	42	40	W	4	og	3	Rochefort ...	29.29	51	48	W	5	c	*	
Holyhead ...	29.96	44	43	W	3	b	3									

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

Weather in morning fine generally over the southern, fair over the northern parts of the Mediterranean; fine also over Finland and the north of Scandinavia and temporarily so at several of our own eastern stations. Dull and unsettled elsewhere and very changeable over the northern and northwestern countries generally. Rain falling later throughout our Islands, Germany, and the greater part of France, but amount inconsiderable except in Ireland.

Temperature changing fitfully—fallen over the British Islands, risen slightly over Germany, rapidly over southern and central Russia. Above 50° at Malta, La Cella, Algiers, and most of the Spanish coast stations, exceeding 40° over France, England and Ireland, and above the freezing point over Germany. Lowest—6° to—17° Fahr: over Finland and the north of Russia, +13° at St Petersburg, 19° at Moscow and Odessa. Rising to 50° and more on our extreme southern coast later, as well as in the east of France, and touching 64° at Lufeyman.

Wind very variable over the Mediterranean,—chiefly W<sup>3</sup> over western and central Europe—moderate in most places, but very strong over the eastern half of the Channel. W<sup>3</sup> over the southern parts of the Baltic, but N<sup>3</sup> to NE<sup>3</sup> over the Gulf of Finland and the south of Sweden, and blowing strongly at Stockholm and Visby. Rising to a gale from W. over the lower parts of the Thames later, and backing to SW. in Ireland and freshening decidedly.

Barometer highest, (1) 30.5 ins: and more over Spain, and ranging between 30.4 ins: and 30.0 ins: over all the southern and southeastern countries; (2) exceeding 29.9 ins: over the northern half of Sweden and the Gulf of Bothnia. Lowest 29.5 ins: and less, in a depression over the Gulf of Riga and its neighbourhood, as well as in another near the Shetlands; 29.6 ins: and less, in a secondary off the northeast coast of England. Latter disturbance moving eastwards later, but a new and larger one approaching our western coasts 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 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 FRIDAY 3RD FEBRUARY, 1893

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

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STATIONS.	YESTERDAY EVENING. (See note at bottom of last page.)						THIS MORNING. (See note at bottom of last page.)										PAST 24 HOURS.			
	Barom. Reading at 32° F. and Sea Level.	Temp. Dry Bulb.	WIND.		Weather.	Sea (0 to 9).	Barometer. Reading at 32° F. and Sea Level.	Change since Yesterday Morning.	SHADE TEMP.		WIND.		Weather.	Sea (0 to 9).	SHADE TEMP.		Amount of Rainfall.			
			Direc.	Force (0 to 12).					Dry Bulb.	Wet Bulb.	Change in dry since Yesterday.	Direc.			Force (0 to 12).	Max.		Min.		
Ina.	°				Ina.	°	°	°									102.			
SCANDINAVIA.																				
Haparanda ...	30.18	30	2	0	b	30.48	+124	2	2	2	2	0	0	*	b	13	35	—		
Hernösand ...	30.23	30	2	2	b	30.49	+133	15	16	—9	2	0	0	*	b	10	17	—		
Stockholm ...	30.12	30	2	2	b	30.46	+148	3	3	+3	NW	2	0	0	*	b	9	18	—	
Wisby ...	30.18	30	2	4	c	30.36	+140	20	19	+3	NE	4	0	0	*	c	20	12	—	
Bodö ...	30.03	23	E	4	c	30.26	+145	23	21	+1	E	2	0	0	*	c	23	18	—	
Christiansund...	30.01	31	ENE	3	c	30.24	+140	24	22	+10	ENE	1	0	2	c	34	24	—		
Skudesnaes ...	30.06	34	S	5	o	30.35	+154	30	28	—5	SE	6	0	4	c	34	28	—		
Christiania Fjord (Færd)	30.12	13	N	5	o	30.47	+150	9	9	—7	NW	3	0	1	c	16	9	—		
Skagen (The Scaw)	30.10	22	ENE	2	o	30.41	+146	18	15	—4	E	2	0	1	o	25	16	—		
Fanø ...	30.01	30	ENE	4	c	30.22	+143	19	19	—11	ENE	2	0	*	c	32	19	—		
Sumburgh Head	30.76	41	SE	3	c	30.33	+136	43	41	+3	SE	4	0	5	c	43	40	0.01		
Stornoway ...	30.69	43	SE	3	o	30.33	+131	43	41	+3	SE	2	0	3	o	46	34	0.02		
Wick ...	30.76	38	NW	1	b	30.31	+138	42	42	+5	SE	4	0	4	b	43	38	0.03		
Nairn ...	30.75	42	2	0	c	30.34	+138	42	41	+6	2	0	0	1	c	45	35	0.04		
Aberdeen ...	30.85	36	N	1	b	30.06	+146	40	40	+5	S	3	0	4	b	44	35	0.04		
Leith ...	30.87	39	NW	2	m	30.04	+141	41	41	+1	2	0	0	*	m	46	38	0.01		
Shields ...	30.90	41	NW	2	m	30.12	+144	42	40	+3	SE	3	0	2	c	46	36	—		
Spurn Head ...	30.33	40	NW	3	c	30.18	+143	39	39	—2	SE	2	0	2	m	41	37	0.03		
York ...	30.33	43	N	2	c	30.19	+143	41	40	—1	E	1	0	*	c	45	38	—		
Loughborough	30.33	43	NW	2	c	30.18	+133	42	42	—2	SE	1	0	*	c	45	41	0.07		
ISLANDS.																				
Ardrossan ...	30.30	43	NW	1	o	30.04	+13	45	44	+3	S	2	0	2	b	47	40	0.09		
Malin Head ...	30.36	43	SE	3	o	30.36	+131	45	44	+3	S	4	0	3	o	47	42	0.06		
Mullaghmore ...	30.38	43	NW	5	om	30.34	+15	45	46	+3	SE	5	0	4	om	45	43	0.04		
Belmullet ...	30.30	35	SE	4	o	30.34	+13	48	45	+3	SE	5	0	*	o	50	44	0.15		
Donaghadee ...	30.35	45	N	4	c	30.07	+122	46	45	+4	N	4	0	2	c	47	42	0.09		
BRITISH.																				
Liverpool (Bidston)	30.38	43	N	4	o	30.16	+133	46	45	+5	SE	1	0	2	o	46	39	0.31		
Holyhead ...	30.39	44	NW	2	dm	30.13	+130	45	45	+3	SE	2	0	2	dm	48	41	0.24		
Parsonstown ...	30.00	30	SE	1	o	30.07	+118	46	44	+1	2	0	0	*	o	53	43	0.03		
Valencia ...	30.10	51	SE	4	om	30.23	+101	50	50	—1	S	4	0	4	om	52	46	0.16		
Roche's Point	30.09	53	N	4	f	30.11	+144	48	48	—3	SE	4	0	4	f	53	46	0.15		
Pembroke (St. Ann's Hd.)	30.35	44	N	5	c	30.15	+126	46	45	—3	SE	2	0	5	c	45	40	—		
Scilly ...	30.19	50	N	5	c	30.20	+106	49	46	—2	SE	4	0	5	c	50	46	—		
Prawle Point ...	30.15	48	NW	5	c	30.25	+144	47	43	—4	N	2	0	2	c	47	42	0.03		
Jersey (St. Aubin's)	30.22	45	NW	5	odp	30.28	+105	47	45	—2	N	3	0	3	odp	51	46	0.02		
Hurst Castle ...	30.10	45	NW	5	c	30.22	+118	45	44	0	N	2	0	4	c	50	44	—		
Dungeness ...	30.35	46	NW	4	T	30.22	+126	43	42	—1	SE	1	0	2	T	48	42	0.12		
North Foreland	30.37	43	NW	4	T	30.23	+130	43	42	—3	NW	1	0	2	T	50	41	0.10		
London ...	30.34	45	N	2	o	30.22	+126	44	44	—3	2	0	0	*	o	54	43	0.24		
Oxford ...	30.08	44	N	1	T	30.22	+125	45	44	—3	SE	1	0	*	T	53	44	0.30		
Cambridge ...	30.00	44	2	0	T	30.23	+135	43	43	—3	N	1	0	*	T	47	40	0.20		
Yarmouth ...	30.32	41	NW	4	b	30.21	+135	38	37	—5	NW	3	0	3	b	44	38	0.12		
GERMANY & HOLLAND.																				
Cuxhaven ...	30.35	39	ENE	3	T	30.32	+141	37	36	—5	ENE	3	0	*	T	38	34	—		
Berlin ...	30.34	36	2	0	o	30.16	+123	31	30	—6	NW	2	0	*	o	35	30	0.12		
Wiesbaden ...	30.33	36	2	0	o	30.20	+108	33	32	—3	NW	4	0	*	o	45	36	0.33		
Munich ...	30.33	33	SE	7	o	30.01	+104	33	32	—3	NW	6	0	*	o	37	32	0.35		
The Helder ...	30.33	38	NW	5	b	30.32	+137	34	33	—3	E	2	0	2	b	41	34	0.24		
FRANCE AND BELGIUM.																				
Brussels (P.M.)	30.38	44	NW	5	T	30.28	+124	37	37	—4	ENE	1	0	*	o	48	36	0.32		
Cape Gris Nez	30.37	44	NW	5	T	30.18	+121	42	42	—2	S	1	0	1	T	46	41	0.24		
Paris ...	30.37	30	NW	5	o	30.25	+102	44	44	—1	NW	1	0	*	o	51	43	0.04		
Brest ...	30.31	45	NW	3	c	30.21	+105	47	47	—2	N	2	0	3	c	52	46	—		
Lorient ...	30.31	50	N	5	o	30.28	+105	48	44	—2	2	0	0	4	o	54	43	—		
Rochefort ...	30.36	38	N	3	c	30.30	+107	44	43	0	2	0	0	*	c	52	37	—		
Belfort ...	30.36	40	N	6	T	30.27	+107	44	43	0	N	4	0	*	T	52	37	0.32		
Lyons ...	30.36	39	NW	1	o	30.27	+118	41	41	+1	E	1	0	*	o	50	36	—		
Nice ...	30.36	35	2	0	b	30.36	+127	46	42	—2	SE	1	0	*	b	50	36	—		
Perpignan ...	30.36	44	SE	1	b	30.22	+121	47	41	—3	SE	1	0	*	b	50	37	—		
Biarritz ...	30.36	51	ENE	2	b	30.25	+123	42	42	—4	SE	2	0	3	b	53	37	—		
PENINSULA.																				
Corunna ...	30.32	36	2	0	m	30.30	+11	47	47	—1	2	0	f	*	m	57	48	—		
Lisbon ...	30.32	36	2	0	m	30.30	+11	47	47	—1	2	0	f	*	m	57	48	—		

For Explanation of Columns, see bottom of last page.

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

# WEATHER CHARTS

for 8 a.m. on Friday, 3<sup>rd</sup> February 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:

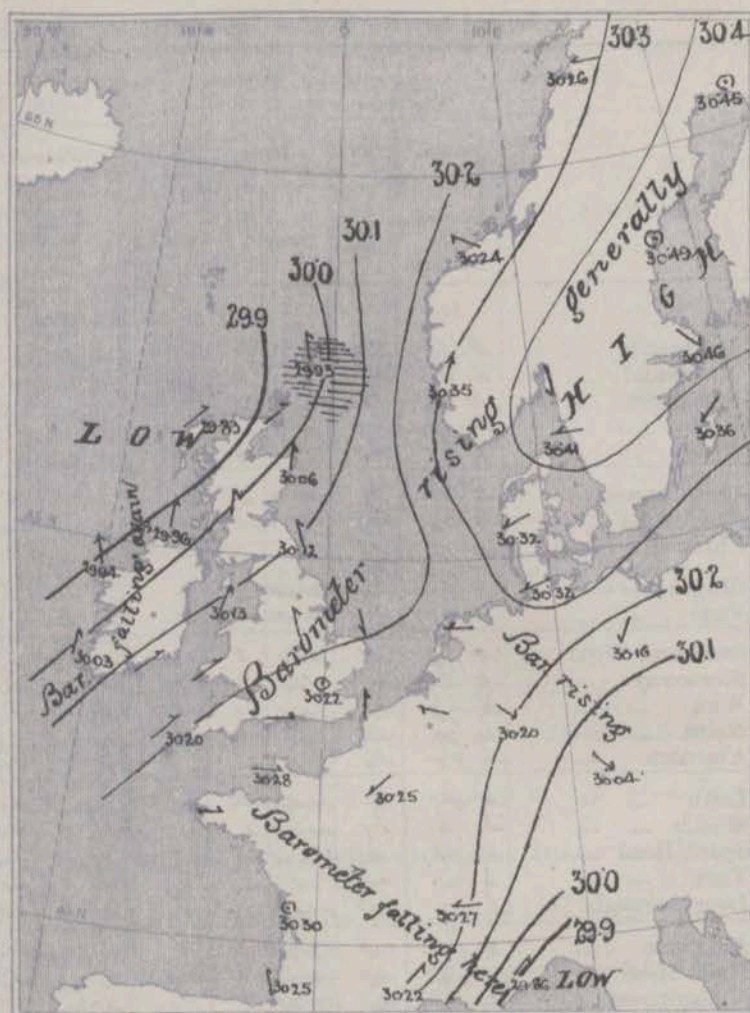
⊞ = Rough. ⊞ = High.

## MEAN HEIGHT OF THE BAROMETER

at 8 a.m. for the month of February

During the 20 Years, 1871—1890.

STATIONS.	MEAN READINGS.
Sunbrough Head	29.775
Stornoway	29.774
Wick	29.804
Nairn	29.814
Aberdeen	29.818
Leith	29.820
Shields	29.906
Spurn Head	29.934
York	29.939
Loughborough	29.963
Androsan	29.979
Mullaghmore	29.981
Donaghadee	29.984
Holyhead	29.911
Liverpool	29.934
Parsonstown	29.900
Valencia	29.919
Roche's Point	29.916
Pembroke	29.937
Sally	29.959
Prawle Point	29.993
Jersey	30.007
Hurst Castle	29.986
Dover	29.983
LONDON	29.980
Oxford	29.983
Cambridge	29.979
Yarmouth	29.964



## 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.

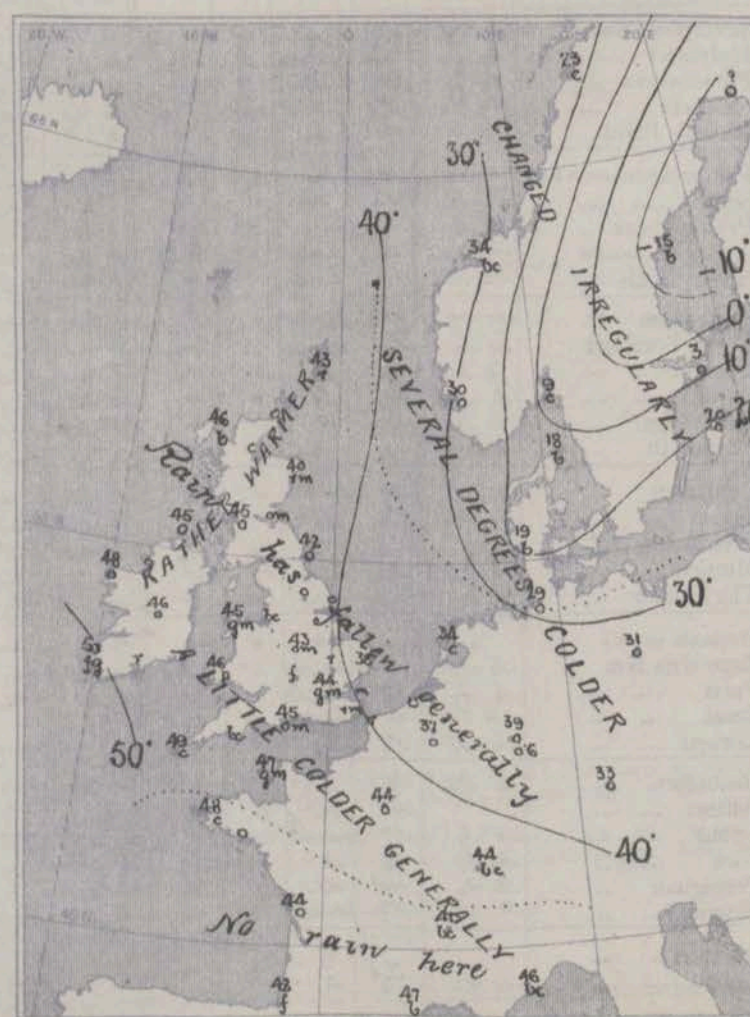
**RAINFALL**—A dotted line separates the districts in which rain has fallen from those where there has been none. Falls of 0.5 in. or more are quoted in figures.

## MEANS OF TEMPERATURE IN SHADE, AND RAINFALL.

(For the month of February.)

STATIONS.	TEMPERATURE.				RAINFALL.
	Daily Max.	Daily Min.	At 8 a.m.	At 5 p.m.	
Sunbrough Head	42.4	31.6	38.5	37.4	3.19
Stornoway	43.5	34.6	39.1	38.1	3.80
Wick	43.1	33.2	38.1	36.7	2.01
Nairn	43.4	33.4	37.1	35.4	1.48
Aberdeen	43.2	33.8	37.3	35.7	2.37
Leith	45.7	34.8	38.6	37.1	1.45
Shields	43.8	35.1	38.6	37.3	1.60
Spurn Head	42.3	35.0	38.4	37.6	1.86
York	44.0	33.9	37.0	36.1	1.70
Loughborough	45.3	33.9	37.5	36.4	1.75
Androsan	44.6	36.2	39.4	38.2	3.04
Mullaghmore	46.6	38.6	42.0	40.3	3.00
Donaghadee	45.8	39.9	40.3	39.3	2.42
Holyhead	46.5	38.7	41.5	40.1	2.60
Liverpool	44.5	36.2	38.9	37.3	1.69
Parsonstown	46.9	35.6	39.4	38.1	2.20
Valencia	49.7	40.7	44.6	42.0	4.95
Roche's Point	48.4	39.6	43.1	41.6	4.43
Pembroke	45.2	35.4	42.1	40.9	2.82
Sally	48.9	42.8	46.0	44.4	4.71
Prawle Point	46.2	38.1	41.5	40.5	2.62
Jersey	46.9	39.3	42.3	41.0	2.69
Hurst Castle	43.7	36.7	40.3	39.3	2.26
Dover	44.4	36.1	39.2	38.1	1.96
LONDON	45.8	35.1	38.6	37.4	1.73
Oxford	45.0	34.9	37.9	36.8	1.92
Cambridge	45.5	32.8	37.3	36.2	1.46
Yarmouth	49.6	34.5	38.2	37.3	1.82

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



# GENERAL SITUATION AT 8 A.M.

## PRESSURE

Highest, 30.4 in: and upwards, in an anticyclone lying over Sweden.  
Lowest, 29.9 in: and less, in the northwest of Scotland, and also in a depression lying over the Gulf of Genoa.  
Gradients slight and irregular. Barometer falling in Ireland and also over the greater part of France, but rising elsewhere.

## TEMPERATURE

Highest, 50° at Valence Island, 49° at Lundy, and 48° at Balmuccia, Mullaghmore, Rock Point, Brest, and Lorient.  
Lowest, -15° Fakh at Helsingfors, -13° at Stockholm, 9° at Lander, 16° at Rügen, 19° at Tams, and 20° at Mity.  
During yesterday the thermometer rose to between 50° and 54° at most of our southern and south-western stations.

## WIND

Light to fresh from the S<sup>W</sup> or S<sup>W</sup><sup>by</sup> in the west and north of our Islands. SE<sup>ly</sup> or E<sup>ly</sup> in the east of Norway.  
Light from the W<sup>nd</sup> in the south and southeast of England.  
E<sup>ly</sup> over Denmark and the Netherlands. NW<sup>ly</sup> over the western and southern parts of Germany. Variable in France.

## WEATHER

Cloudy or overcast in most places, with rain and mist in isolated parts of the United Kingdom.  
Fine and bright in Denmark and also in the south of France, but dense fog reported at Brest.  
In the course of the past 24 hours rain has fallen in most parts of our Islands, the Netherlands, Germany, and the north of France.

## SEA

Rather rough at Lumburgh, H<sup>l</sup>, Pembroke, and Lundy, but moderate to smooth elsewhere.

## PROBABLE CHANGES IN SYSTEM NOW PREVALENT

A new depression is apparently advancing towards Ireland, and freshening S<sup>ly</sup> winds are probable on our western and northern coasts, with unsettled rainy weather. The southeastern parts of the Kingdom are not likely to be materially affected at present.

## FORECASTS

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

### DISTRICTS.

### FORECASTS.

- |   |          |   |
|---|----------|---|
| 0 | SCOTLAND | } S <sup>ly</sup> winds freshening; unsettled, some rain.                             |
|   | NORTH    |   |
| 1 | SCOTLAND | } S <sup>ly</sup> winds, light or moderate; fair generally.                           |
|   | EAST     |   |
| 2 | ENGLAND  | } S <sup>ly</sup> winds, light or moderate; fair generally.                           |
|   | N.E.     |   |
| 3 | ENGLAND  | } SW <sup>ly</sup> winds, light or moderate; fair generally, but mist or fog locally. |
|   | EAST     |   |
| 4 | MIDLAND  |   |
|   | COUNTIES |   |
| 5 | ENGLAND  |   |
|   | SOUTH    |   |

### DISTRICTS.

### FORECASTS.

- |    |          |  |
|----|----------|--|
| 6  | SCOTLAND | } S <sup>ly</sup> and SW <sup>ly</sup> winds, freshening; fair to unsettled and some rain. |
|    | WEST     |  |
| 7  | ENGLAND  | } S <sup>ly</sup> and SW <sup>ly</sup> winds, freshening; fair to unsettled and some rain. |
|    | N.W.     |  |
| 8  | ENGLAND  | } S <sup>ly</sup> winds, increasing in force; unsettled, some rain.                        |
|    | S.W.     |  |
| 9  | IRELAND  | } S <sup>ly</sup> winds, increasing in force; unsettled, some rain.                        |
|    | NORTH    |  |
| 10 | IRELAND  |  |
|    | SOUTH    |  |

### WARNINGS

At 7.20 pm yesterday to districts 7 to 10 and part of 5 "Lower Cone".

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

# YESTERDAY'S 2 P.M. REPORTS.

	BAR.	THER.		WIND.	F.	WEA.	SEA.		BAR.	THER.		WIND.	F.	WEA.	SEA.
		Dry.	Wet.	Dirac.						Dry.	Wet.	Dirac.			
Skudesnaes ...	29.80	3	3	0.5	4	C	4	Valencia ...	30.01	52	51	0.5	6	om	6
Sumburgh Head ...	29.6	42	0.5	0.5	2	C	4	Scilly ...	30.18	52	49	0.5	6	C	5
Stornoway ...	29.63	44	44	0.5	3	0	3	Jersey ...	30.22	51	49	0.5	5	ogm	4
Aberdeen ...	29.74	43	38	0.5	2	0	2	Hurst Castle ...	30.02	49	47	0.5	6	C	5
Shields ...	29.78	45	42	0.5	3	C	2	Dungeness ...	29.8	47	46	0.5	6	C	5
Ardrossan ...	29.80	46	44	0.5	2	C	2	North Foreland ...	29.83	48	47	0.5	5	0	4
Malin Head ...	29.82	45	42	0.5	3	0	3	London ...	29.83	48	46	0.5	3	0	3
Mullaghmore ...	29.8	45	45	0.5	4	om	4	Yarmouth ...	29.81	48	42	0.5	4	0	3
Belmullet ...	29.81	45	45	0.5	4	T	4	Rochefort ...	30.05	51	49	0.5	4	C	4
Holyhead ...	29.83	44	44	0.5	3	dm	3								

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

Weather in morning fine and bright over Algeria and southwestern Europe, also over Finland and the greater part of Scandinavia; very changeable elsewhere, temporarily clear in some places, gloomy and rainy in others, with fog at Lionemunde and Breslau, snow at Tams, Wiby, and Charkov. Rain later at nearly all stations in the British Islands, the north of France and Germany, but amounts moderate or slight except at Wiesbaden, where 0.6 in. fell.

Temperature risen over the British Islands, changed irregularly elsewhere. Morning readings exceeding 50° on the Algerian coast, at Cuzuma, and in the extreme southwest of our Islands. Exceeding 40° over nearly the whole of Western Europe, and exceeding the freezing point over the greater part of Central Europe. Lowest -12° F. to -26° F. over Finland and the north of Russia, -9° at St. Petersburg, -6° at Helsingfors and Stockholm. Rising later to between 50° and 54° over our southern and southwestern districts, and in the west of France, and touching 62° at Perpignan, but not exceeding 45° to 48° at our northern stations.

Wind very variable. (1) N<sup>W</sup> and S<sup>W</sup> over the British Islands, the greater part of France and Germany; S<sup>W</sup> and variable on the eastern shores of the North Sea; SE<sup>3</sup> to E<sup>3</sup> in Norway; (2) N<sup>3</sup> over the Baltic, N<sup>W</sup> over Poland, S<sup>W</sup> over the south of Russia; (3) light and anticyclonic over southwestern Europe; (4) N<sup>W</sup> over the eastern side of the Mediterranean. Backing to S<sup>W</sup> and S. in Ireland later.

Barometer highest 30.5 in. and more to 30.4 in. over Spain and the southwest of France, and exceeding 30 in. over the southern part of our Islands, the Channel, and the western Continental countries generally; exceeding 29.9 in. in a "col" over Scandinavia and North Germany. Lowest about 29.4 in. over Central Russia; 29.6 in. and less, in the Shetlands and north of Scotland, and about 29.9 in. over southeastern Europe. Rising over the United Kingdom and North Sea later, most in the northeast.

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

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

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

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

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# DAILY WEATHER REPORT

for 8 a.m. on SATURDAY 4<sup>TH</sup> FEBRUARY. 1893

Issued by the Meteorological Office, 53, 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.		BAROMETR.		SHADE TEMP.		WIND.						SHADE TEMP.			
	Reading at 32° F. and Sea Level.	Dry Bulb.	Dirac.	Force (0 to 12).	Weather.		Reading at 32° F. and Sea Level.	Change since Yesterday Morn.	Dry Bulb.	Wet Bulb.	Change in dry since Yesterday.	Dirac.	Force (0 to 12).	Weather.	Sea (0 to 9).		Weather.	Max.	Min.	Amount of Rainfall.
	Inch.	°					Inch.		°	°								°	Inch.	
SCANDINAVIA.	Haparanda ...	30.65	-21	2	0	b	30.64	+19	-20	-20	-12	2	0	b	4	0	b	-10	-25	—
	Hernösand ...	30.67	-18	2	0	c	30.56	+07	25	24	+20	N	2	b	4	0	c	-10	-18	—
	Stockholm ...	30.71	0	2	0	b	30.67	+22	0	-1	-3	2	0	b	4	0	b	8	-4	—
	Wisby ...	30.67	12	NW	4	b	30.72	+26	21	20	+1	NW	4	b	4	0	b	20	21	—
	Bodö ...	30.53	24	E	4	0	30.25	-01	30	24	-7	E	4	0	2	0	0	21	21	—
	Christiansund ...	30.30	33	SE	2	0	30.28	+04	32	35	+3	E	2	c	3	0	0	32	33	—
	Skudesnaes ...	30.45	30	SE	0	0	30.48	+13	32	31	+2	SE	0	0	6	0	0	32	32	—
	Christiania Fjord (Færdø)	30.64	18	2	0	0	30.57	+12	27	26	+10	SW	4	0	2	0	0	2	2	—
	Skagen (The Scaw)	30.67	22	SE	2	b	30.67	+26	21	19	+3	SW	2	0	1	0	b	23	16	—
	Fanø ...	30.62	22	SE	4	0	30.63	+31	20	19	+1	SE	2	0	4	0	0	27	16	—
BRITISH ISLANDS.	Sumburgh Head	30.01	42	S	4	0	30.05	+12	44	43	+1	S	4	0	6	0	7.0	18	41	0.10
	Stornoway ...	30.23	46	SW	6	T	30.24	+11	45	45	-1	SW	3	7	4	0	7.7	44	42	0.12
	Wick ...	30.57	44	S	2	b	30.53	+12	45	44	+1	S	4	c	3	0	b	44	41	—
	Nairn ...	30.58	46	W	4	c	30.52	+08	47	46	+5	W	2	c	1	0	c	52	41	—
	Aberdeen ...	30.12	43	S	3	c	30.19	+13	42	41	+2	S	4	omg	4	0	omg	44	40	—
	Leith ...	30.13	44	S	1	b	30.17	+13	47	44	+6	SW	2	0	4	0	b	51	40	—
	Shields ...	30.21	45	S	3	0	30.27	+15	42	41	0	S	3	0	2	0	omg	47	36	0.05
	Spurn Head ...	30.27	35	SE	3	Tm	30.34	+16	37	36	-2	SE	4	0	4	0	Tm	37	36	0.05
	York ...	30.25	44	SE	1	0	30.34	+15	36	34	-2	E	1	0	4	0	0	45	34	0.01
	Loughborough	30.26	46	SE	1	0	30.34	+16	37	34	-4	SE	3	omg	4	0	0	48	37	—
BRITISH ISLANDS.	Androssan ...	30.09	45	SE	3	0	30.15	+11	45	44	0	S	3	om	3	0	b	44	43	0.01
	Malin Head ...	30.55	43	S	4	0	30.53	+07	47	46	+2	SW	4	odp	3	0	odp	53	45	0.01
	Mullaghmore ...	30.55	32	SE	6	0	30.54	+10	47	47	-1	W	2	d	2	0	odp	53	43	0.32
	Belmullet ...	30.50	33	S	5	0	30.55	+11	45	44	-3	SE	3	0	4	0	odp	53	44	0.15
	Donaghadee ...	30.12	46	S	5	0	30.15	+08	46	45	0	S	6	0	4	0	0	51	45	0.01
	Liverpool (Bldston)	30.22	48	SW	1	0	30.21	+12	41	40	-5	SE	2	0	1	0	0	51	40	—
	Holyhead ...	30.17	46	S	3	0	30.21	+08	44	43	-1	S	3	odp	2	0	b	45	44	0.01
	Parsonstown ...	30.04	45	SW	1	0	30.07	+02	44	47	+2	SW	1	odp	1	0	0	51	44	—
	Valencia ...	30.30	51	SE	4	0	30.08	+05	47	47	-3	2	0	0	4	0	odp	52	46	0.32
	Roche's Point	30.07	48	SW	4	Tm	30.09	-02	47	47	+1	S	5	c	4	0	Tm	47	47	0.05
BRITISH ISLANDS.	Pembroke (St. Ann's Hd.)	30.16	46	S	3	c	30.21	+02	45	44	-1	SE	4	c	5	0	c	48	45	—
	Scilly ...	30.16	50	S	4	c	30.15	-05	48	46	-1	SE	6	c	5	0	c	50	46	—
	Prawle Point ...	30.27	45	SE	1	b	30.27	+02	45	45	+2	E	2	c	1	0	b	52	42	—
	Jersey (St. Aubin's)	30.28	48	E	2	b	30.28	0	46	44	-1	SE	3	omw	3	0	c	50	41	—
	Hurst Castle ...	30.27	45	SE	1	c	30.31	+04	42	42	-2	SE	3	ond	2	0	c	51	42	—
	Dungeness ...	30.28	43	2	0	m	30.37	+15	38	36	-5	SE	3	b	2	0	om	44	37	0.01
	North Foreland	30.30	41	SE	2	b	30.38	+16	36	36	-7	SE	3	b	3	0	odp	42	32	—
	London ...	30.34	44	SE	1	od	30.37	+15	35	35	-5	SE	2	c	4	0	odp	47	34	—
	Oxford ...	30.25	46	SW	1	0	30.34	+12	40	35	-5	SE	1	ond	4	0	odp	48	40	0.06
	Cambridge ...	30.25	42	SW	1	T	30.32	+16	36	36	-7	SE	1	0	4	0	odp	45	35	0.01
GERMANY & HOLLAND.	Yarmouth ...	30.32	38	SE	4	c	30.40	+19	36	35	-2	SE	4	odp	4	0	c	37	34	—
	Cuxhaven ...	30.28	28	SE	3	c	30.35	+12	37	26	-2	SE	3	b	4	0	c	37	24	—
	Berlin ...	30.55	26	NE	3	b	30.71	+15	18	17	-13	E	3	b	4	0	b	31	18	—
	Wiesbaden ...	30.53	25	SW	3	0	30.50	+30	31	25	-8	NE	3	0	4	0	0	43	30	—
	Munich ...	30.53	25	SW	3	0	30.41	+40	24	24	-9	E	5	0	4	0	0	34	24	0.04
	The Helder ...	30.47	32	SE	2	c	30.56	+24	31	30	-3	SE	4	b	3	0	c	34	30	—
	Brussels (9 a.m.)	30.47	47	SE	1	0	30.47	+15	25	28	-8	ENE	1	b	4	0	b	40	28	—
	Cape Gris Nez	30.26	42	NE	1	m	30.34	+16	31	31	-11	SE	1	m	1	0	m	45	30	—
	Paris ...	30.50	41	ENE	1	0	30.37	+12	25	25	-15	NE	1	b	4	0	b	45	25	0.01
	Brest ...	30.48	40	S	2	0	30.47	+12	26	23	-2	SE	3	0	3	0	0	50	43	—
FRANCE AND BELGIUM.	Lorient ...	30.24	46	SE	2	0	30.22	-06	43	41	-5	E	3	c	3	0	0	50	41	—
	Rochefort ...	30.24	45	NE	1	0	30.22	-08	40	40	-4	ENE	2	b	4	0	0	52	37	—
	Belfort ...	30.25	35	E	3	b	30.22	-08	36	33	-8	E	3	b	4	0	0	52	37	—
	Lyons ...	30.25	37	NW	2	b	30.25	+02	31	30	-10	NW	1	0	4	0	b	45	30	0.04
	Nice ...	30.36	40	SW	1	b	30.12	+26	41	38	-5	NE	3	b	2	0	b	57	30	—
	Perpignan ...	30.13	52	NW	3	b	30.14	-08	41	38	-6	SW	1	b	4	0	b	52	30	—
	Biarritz ...	30.20	47	NE	2	0	30.17	-08	41	40	-1	S	2	0	3	0	0	50	37	—
	Corunna ...	30.30	37	W	3	c	30.26	-04	53	52	+6	NW	2	b	4	0	c	57	47	0.04
	Lisbon ...	30.30	37	W	3	c	30.26	-04	53	52	+6	NW	2	b	4	0	c	57	47	0.04
	Lisbon ...	30.30	37	W	3	c	30.26	-04	53	52	+6	NW	2	b	4	0	c	57	47	0.04

For Explanation of Columns, see bottom of last page

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

# WEATHER CHARTS

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

## BAROMETER, WIND AND SEA.

### EXPLANATION OF MAP

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

Changes since previous morning are stated in words.

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

— forces above 10; — forces 8 to 10;

— forces 5 to 7; — forces 1 to 4.

☉ = dead calm.

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

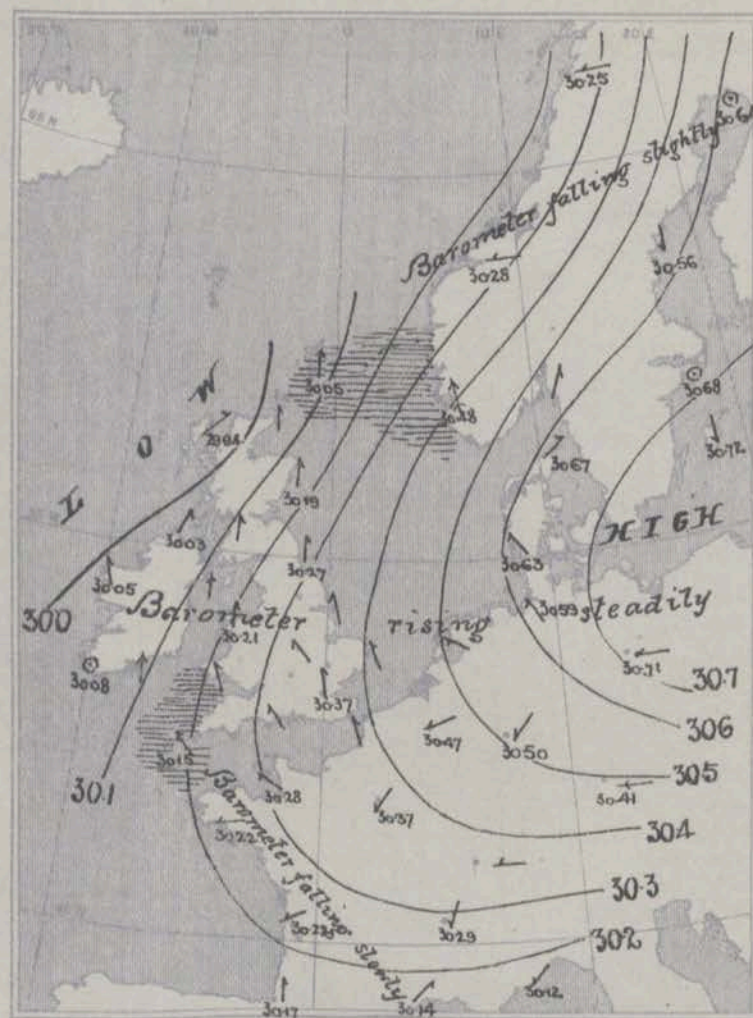
— = Rough, — = High.

### MEAN HEIGHT OF THE BAROMETER

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

During the 29 Years, 1871—1900.

STATIONS.	MEAN READINGS.
Sumburgh Head	29.773
Stornoway	29.773
Wick	29.804
Nairn	29.813
Aberdeen	29.818
Leith	29.870
Shields	29.900
Spurn Head	29.934
York	29.930
Loughborough	29.903
Androsman	29.879
Mullaghmore	29.831
Donaghadee	29.884
Holyhead	29.914
Liverpool	29.934
Parsonstown	29.906
Valencia	29.919
Roche's Point	29.910
Pembroke	29.937
Sally	29.939
Prawle Point	29.993
Jersey	30.007
Hurst Castle	29.986
Dover	29.983
LONDON	29.959
Oxford	29.983
Cambridge	29.970
Exmouth	29.904



## 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.

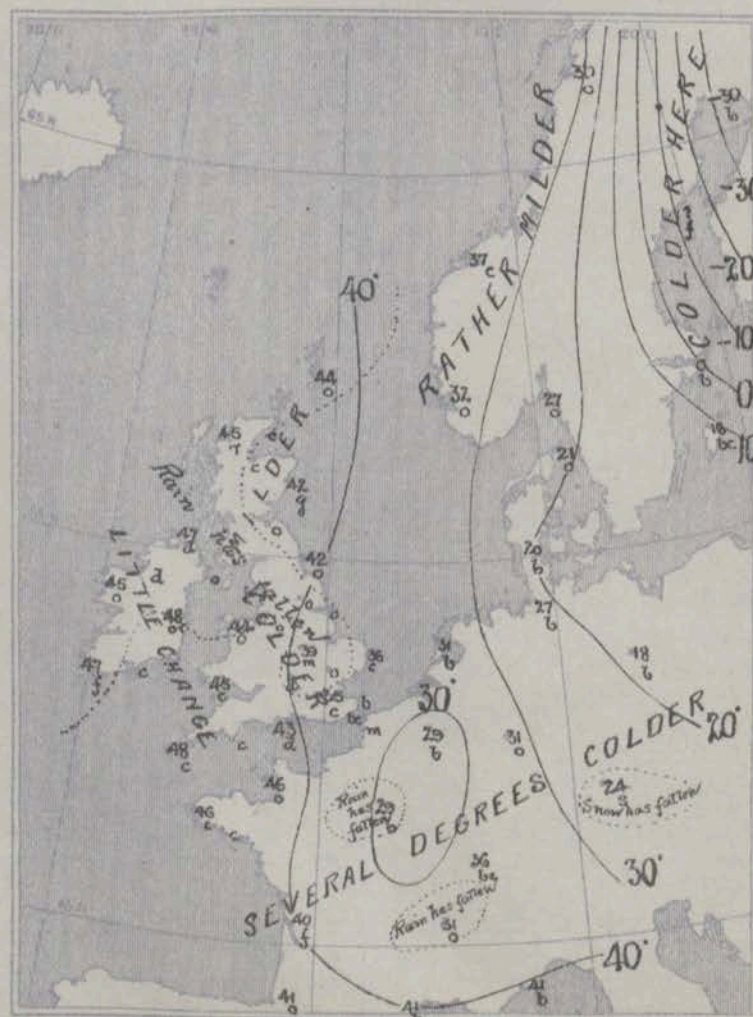
**RAINFALL**—A dotted line separates the districts in which rain has fallen from those where there has been none. Falls of 0.5 in. or more are quoted in figures.

### MEANS OF TEMPERATURE IN SHADE, AND RAINFALL

(For the month of February.)

STATIONS.	TEMPERATURE.				RAINFALL. inches.
	Daily Max.	Daily Min.	At 8 a.m.	At 4 p.m.	
Sumburgh Head	49.4	34.5	38.5	37.4	3.19
Stornoway	43.5	34.6	39.1	34.1	3.84
Wick	43.1	33.2	38.7	36.7	2.04
Nairn	43.1	33.4	37.1	35.4	1.48
Aberdeen	43.2	33.8	37.3	35.7	2.85
Leith	46.7	34.8	38.0	37.1	1.45
Shields	43.8	35.1	38.0	37.5	1.60
Spurn Head	42.3	33.9	38.4	37.6	1.36
York	44.6	33.9	37.5	36.4	1.70
Loughborough	45.3	32.9	37.6	35.4	1.78
Androsman	44.0	32.3	39.4	38.2	3.04
Mullaghmore	45.0	35.6	42.0	40.3	3.00
Donaghadee	45.6	34.0	40.3	39.3	2.42
Holyhead	45.6	35.7	41.5	40.1	2.50
Liverpool	44.5	36.2	38.9	37.3	1.69
Parsonstown	46.9	35.6	39.4	38.1	2.20
Valencia	49.7	40.7	44.0	42.9	4.95
Roche's Point	48.4	39.6	43.1	41.6	1.43
Pembroke	45.6	39.4	42.1	40.9	2.82
Sally	48.0	42.8	43.0	41.4	2.71
Prawle Point	48.8	38.1	41.5	40.5	2.02
Jersey	46.9	39.3	42.3	41.0	2.55
Hurst Castle	45.7	36.7	40.3	39.3	2.23
Dover	44.4	36.1	39.2	38.1	1.05
LONDON	45.5	35.1	38.6	37.4	1.73
Oxford	45.0	34.9	37.9	36.5	1.92
Cambridge	45.5	32.8	37.3	36.2	1.46
Exmouth	49.6	34.5	38.2	37.3	1.82

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



# GENERAL SITUATION AT 8 A.M.

## PRESSURE

Highest, 30.7 in; and upwards, in an anticyclone lying over Eastern Germany and the Baltic.  
Lowest, 30.0 in; and less, in a depression lying off the northwest of Scotland.

Gradients rather steep over Norway and the northern part of the North Sea, but moderate or slight elsewhere.

Barometer falling a little in Scandinavia and also in the east and south of France, rising in most other localities.

## TEMPERATURE

Highest, 53° at Linton, 49° at Rock Point, 48° at Carnoustie and Lelly, and 47° at Nairn, Leth, Skelwith, Mullaghmore, and Valencia Island.

Lowest - 30° Felt; at Lapland, 0° zero at Stockholm, 18° at Berlin, 20° at Paris, 21° at Nuremberg and Regensburg, and 24° at Munich.

During yesterday the thermometer rose to 50° or a little more at several of our western and northern stations, on the east coast of England it did not reach 40°.

## WIND

Moderate to fresh from the S.W. in the west and north of our Islands, and from the S.E. on our eastern and southern coasts as well as on the eastern shores of the North Sea.

Light from the E. over the greater part of France and Germany, calm or N. in Sweden.

## WEATHER

Dull over the greater part of the United Kingdom, with rain in some parts of Ireland and the west of Scotland.

Fair on our south and southeast coasts, and fine and bright over the Netherlands, North Germany, Denmark and Sweden.

Dull in Norway and also in some parts of France and South Germany, with snow at Munich.

Rain fell yesterday in several parts of our Islands, but the amount was slight except in the west of Ireland.

## SEA

Rough at Skerries and Lough Neagh, and rather rough at Pembroke and Lelly, but moderate to smooth elsewhere.

## PROBABLE CHANGES IN SYSTEM NOW PREVALENT

The anticyclone over the Baltic is spreading out in a westerly direction, and colder weather is probable over England. The fall of the barometer in Scandinavia seems to indicate the approach of depressions towards the Norwegian coasts.

## FORECASTS

For the 24 hours ending at NOON on 5<sup>th</sup> February 1893.

DISTRICTS.	FORECASTS.	DISTRICTS.	FORECASTS.
0 SCOTLAND NORTH	S <sup>W</sup> and S <sup>W</sup> winds, freshening; drizzle, rain locally.	6 SCOTLAND WEST	Same as N <sup>o</sup> 1 and 2
1 SCOTLAND EAST	S <sup>W</sup> winds, moderate; drizzle, colder	7 ENGLAND N.W.	
2 ENGLAND N.E.		8 ENGLAND S.W.	SE <sup>W</sup> and S <sup>W</sup> winds, moderate or fresh; fair generally.
3 ENGLAND EAST	SE <sup>W</sup> winds, light or moderate; fair generally, frost at night.	9 IRELAND NORTH	Same as N <sup>o</sup> 0
4 MIDLAND COUNTIES		10 IRELAND SOUTH	Same as N <sup>o</sup> 8
5 ENGLAND SOUTH			
		WARNINGS	At 7.20 pm yesterday to district 0 and parts of 1 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. Direc.	F.	WEA.	SEA.		BAR.	THER.		WIND. Direc.	F.	WEA.	SEA.
		Dry.	Wet.							Dry.	Wet.				
Skudesnaes ...	30.49	45	47	SE	6	o	4	Valencia ...	30.02	52	51	SE	4	o	4
Sumburgh Head ...	30.00	43	43	SE	4	P	6	Scilly ...	30.20	50	48	S	4	o	5
Stornoway ...	29.80	44	44	SE	5	C	4	Jersey ...	30.30	50	47	SE	3	Cm	3
Aberdeen ...	30.11	42	42	S	2	ogm	4	Hurst Castle ...	30.25	50	48	SE	3	C	3
St. Helens ...	30.10	46	44	S	3	om	2	Dungeness ...	30.28	44	44	S	0	o	0
Ardrossan ...	30.05	46	46	S	2	bc	2	North Foreland ...	30.28	42	41	SE	1	o	2
Malin Head ...	29.55	48	46	S	4	o	2	London (W. Min. 49)	30.27	48	47	S	0	ogf	*
Mullaghmore ...	29.56	53	49	SE	6	C	4	Yarmouth ...	30.25	30	38	SE	4	C	4
Behnullet ...	29.52	50	48	SE	4	o	2	Rochefort ...	30.28	50	48	S	0	o	*
Holyhead ...	29.5	49	46	SE	3	bc	2								

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

Weather cloudy or overcast over the greater part of our Islands and the Continent, with rain and mist in isolated parts of the United Kingdom, and with snow or rain in Austria and South Germany. Fine and bright at most of the Oceanic and Russian stations, as well as in the southern part of France, Spain, and Italy. Decided falls of rain falling place later in the west of Ireland and smaller amounts reported in several other parts of our Islands. Fog and dense fogs prevailing in London during middle part of day.

Temperature rises over the northern parts of the United Kingdom, falls elsewhere - very rapidly over Central Russia. Morning readings highest 54° at Barcelona, Algiers and Liphorn, 52° at Cagliari, and 51° at Corunna; above 45° in the eastern parts of our Islands, and reaching 50° at Valencia Island. Lowest -28° F. at Kuopio, -22° at St Petersburg, -18° at Haparanda, and -17° at Uleaborg; below zero over the northern part of Sweden and Russia generally, and below 20° over Denmark and the Baltic. Rising during day to 50° or a little more on several parts of our southern, western, and northern coasts, but remaining below 40° on the east coast of England. Exceeding 55° in the south of France and reaching 62° at Perpignan.

Wind light to fresh from the  $S^{nd}$  or  $SW^{nd}$  in the west and north of our Islands, but  $W^3$  in the south and southeast of England.  $N^3$  or  $NE^3$  over the greater part of Russia, Poland, eastern Germany, and the Baltic, and  $E^4$  over Denmark, the Netherlands, and the west of Norway, but  $NW^3$  or  $W^3$  over the west and south of Germany. Strong from the  $NW^{nd}$  in the south of France; light from  $SW$  or  $W$  over the south of Italy;  $E^4$  or  $SE^3$  on the eastern shores of the Adriatic. Light and variable over Spain and Algeria. No important change occurring later.

Barometer highest 30.4 ins. and upwards over Sweden and also over the southeast of Spain; 30.2 ins. and upwards, in a broad anticyclone stretching in a northeasterly to southeasterly direction across the whole of northern and central Europe. Lowest 29.5 ins. and less, in a small but deep depression having its centre near Liphorn; 29.9 ins. and less, in a shallow system to the northwestward of our Islands, and also in another disturbance lying over the south of Russia. Anticyclone subsequently spreading over England, but slight fall of barometer taking place in Ireland and the west of Scotland.

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 Orford, 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 5<sup>th</sup> February, 1893  
 Issued by the Meteorological Office, 63, Victoria Street, London. R. H. SCOTT, Secretary.

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

STATIONS.	YESTERDAY EVENING. (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 Yesterday Morn.	Dry Bulb.	Wet Bulb.	Change in dry since Yesterday.	Dirac.	Force (0 to 12).	Max.	Min.								
Inch.	°			Inch.	°	°	°				°	ins.								
<b>SCANDINAVIA.</b>																				
Häpäranta ...	30.52	-11	Z	0	c	30.30	-0.34	1	1	+ 31	S	4	0	c	?	-30	—			
Hernösand ...	30.50	5	Z	0	o	30.30	-0.26	7	6	+ 2	S	2	0	c	9	-7	—			
Stockholm ...	30.51	18	Z	0	o	30.31	-0.37	23	23	+ 23	Z	0	f	c	?	-4	—			
Wisby ...	30.60	23	WNW	6	S	30.39	-0.33	26	25	+ 5	NW	4	0	c	26	7	0.04			
Bodö ...	30.40	32	E	5	S	29.99	-0.26	38	37	+ 8	SW	6	0	c	38	28	—			
Christiansund...	30.21	39	N	2	o	30.23	-0.5	40	38	+ 3	WSW	3	r	4	0	41	37	0.20		
Skudesnaes ...	30.45	37	SSE	7	o	30.24	-0.14	39	39	+ 7	S	4	r	5	0	?	32	—		
Christiania Fjord (Færdar)	30.45	33	SW	5	o	30.28	-0.31	31	30	+ 4	WSW	5	o	4	0	34	27	—		
Skagen (The Scaw)	30.56	27	SW	6	o	30.39	-0.28	28	26	+ 7	SW	2	o	1	0	28	19	—		
Faro ...	30.60	20	SE	4	c	30.48	-0.45	26	25	+ 6	S	3	c	c	28	19	—			
Sumburgh Head	30.12	44	W	2	o	30.19	+0.14	40	40	—	4	SSE	1	f	4	45	39	0.04		
Stornoway ...	30.10	45	SW	2	bc	30.08	+0.14	45	44	—	0	SW	5	c	5	48	40	0.05		
Wick ...	30.44	41	NW	1	b	30.15	+0.12	44	40	—	4	S	1	c	3	46	39	—		
Nairn ...	30.46	45	Z	0	c	30.17	+0.15	44	42	—	3	SW	1	o	0	50	37	0.03		
Aberdeen ...	30.23	43	S	3	og	30.27	+0.08	40	38	—	2	SW	2	cm	4	43	39	—		
Leith ...	30.23	43	WSW	2	c	30.24	+0.07	43	41	—	4	S	2	c	c	50	36	—		
Shields ...	30.38	40	SW	2	o	30.30	+0.03	33	33	—	9	SSW	3	f	2	43	32	—		
Spurn Head ...	30.38	39	SSE	3	c	30.39	+0.05	33	32	—	4	SSE	4	o	2	?	31	—		
York ...	30.38	38	SE	1	o	30.37	+0.03	31	31	—	8	S	1	o	c	41	29	—		
Loughborough	30.38	26	E	1	c	30.40	+0.06	30	29	—	9	SE	2	cm	c	44	28	—		
<b>BRITISH ISLANDS.</b>																				
Ardrossan ...	30.45	45	SE	3	o	30.22	+0.07	42	41	—	3	ESE	3	om	2	45	40	—		
Malin Head ...	30.12	47	S	4	o	30.06	+0.03	42	41	—	5	S	5	bc	2	47	42	0.08		
Mullaghmore ...	30.10	50	SSE	5	o	30.03	-0.01	46	45	—	1	SE	6	ofy	5	50	44	0.11		
Belmullet ...	30.08	50	SE	2	c	29.96	-0.09	48	47	—	3	ESE	5	o	c	53	44	0.14		
Donaghadee ...	30.23	45	SSW	5	b	30.22	+0.07	42	41	—	4	SSW	5	o	3	48	40	—		
Liverpool (Bidston)	30.23	43	SE	2	o	30.30	+0.02	33	31	—	8	SE	4	b	3	47	32	—		
Holyhead ...	30.26	45	SSE	2	o	30.25	+0.04	39	37	—	5	SSE	3	b	2	48	29	—		
Parsonstown ...	30.14	47	SW	1	o	30.10	+0.01	46	45	—	2	SE	1	og	0	50	44	—		
Valencia ...	30.09	51	SSE	4	o	30.02	-0.06	49	49	—	2	S	4	c	4	52	46	0.01		
Roche's Point	30.15	48	S	5	c	30.12	+0.03	49	47	—	0	SSE	6	c	5	51	47	—		
Pembroke (St. Ann's Hd.)	30.24	44	SE	4	bc	30.25	+0.04	42	40	—	3	SE	5	bc	5	47	39	—		
Scilly ...	30.48	48	SE	5	c	30.20	+0.05	47	45	—	1	SE	5	c	5	51	44	—		
Prawle Point ...	30.27	44	E	4	o	30.22	+0.05	40	38	—	5	E	3	cm	2	46	38	—		
Jersey (St. Aubin's)	30.49	44	SE	2	c	30.36	+0.08	37	35	—	9	E	3	bc	3	47	34	0.02		
Hurst Castle ...	30.30	39	ESE	3	b	30.37	+0.06	36	35	—	7	ESE	3	c	2	45	35	—		
Dungeness ...	30.28	28	SE	3	bc	30.40	+0.03	33	32	—	5	SSE	4	bc	3	42	32	—		
North Foreland	30.29	37	SE	2	b	30.42	+0.03	34	32	—	2	SE	2	b	3	39	31	—		
London ...	30.40	37	SSE	1	b	30.44	+0.07	29	28	—	6	SE	1	c	c, b	47	28	—		
Oxford ...	30.40	36	SE	1	b	30.41	+0.07	34	32	—	6	SE	1	o	c	44	33	—		
Cambridge ...	30.42	35	SE	1	b	30.43	+0.04	28	28	—	8	S	1	b	c	45	25	—		
Yarmouth ...	30.42	36	SSE	4	bc	30.42	+0.02	34	33	—	2	SSE	3	bc	3	38	31	—		
<b>GERMANY &amp; HOLLAND.</b>																				
Cuxhaven ...	30.76	26	SSE	2	c	30.56	-0.03	20	18	—	7	SSE	2	c	c	27	17	—		
Berlin ...	30.72	19	ESE	4	b	30.64	-0.07	14	13	—	4	SE	2	c	c	27	12	—		
Wiesbaden ...	?	?	?	?	?	30.58	+0.08	23	21	—	8	NE	4	b	c	34	21	—		
Munich ...	30.49	15	NE	7	b	30.49	+0.08	7	6	—	17	E	6	b	c	25	7	—		
The Helder ...	30.50	30	SE	1	b	30.53	-0.03	25	24	—	6	SSE	1	b	c	32	25	—		
<b>FRANCE AND BELGIUM.</b>																				
Brussels (8 a.m.)	?	?	?	?	?	30.50	+0.03	23	22	—	6	ESE	1	b	c	37	22	—		
Cape Gris Nez	30.35	32	ESE	1	m	30.36	+0.02	28	27	—	3	SE	2	bc	3	43	27	—		
Paris ...	30.28	34	E	2	b	30.42	+0.05	26	25	—	3	ENE	2	b	c	41	25	—		
Brest ...	?	47	ESE	2	o	?	?	39	38	—	7	SE	3	c	3	48	37	—		
Lorient ...	30.23	44	ESE	14	o	30.26	+0.04	34	32	—	9	ESE	4	bc	4	46	34	—		
Rochefort ...	30.09	44	ENE	4	o	30.22	0.0	31	30	—	9	SE	3	b	o	52	28	—		
Belfort ...	?	30	NE	5	b	?	?	20	?	—	16	E	4	b	c	36	19	—		
Lyons ...	30.33	30	ENE	1	o	30.41	+0.12	28	27	—	3	NE	1	f	o	35	27	—		
Nice ...	30.18	42	Z	0	bc	30.31	+0.19	?	35	—	?	ENE	3	bc	4	50	34	—		
Perpignan ...	30.18	42	Z	0	b	30.32	+0.18	38	36	—	3	NW	2	o	c	53	37	—		
Biarritz ...	30.15	49	NE	3	b	30.25	+0.08	46	44	—	5	SSW	2	bc	3	52	41	—		
<b>PENINSULA.</b>																				
Corunna ...	?	?	?	?	?	?	?	?	?	—	?	?	?	?	?	?	?	?		
Lisbon ...	30.28	50	NW	4	b	30.30	+0.07	49	47	—	4	NNW	4	b	c	59	48	—		

For Explanation of Columns, see bottom of last page.

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

# WEATHER CHARTS

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

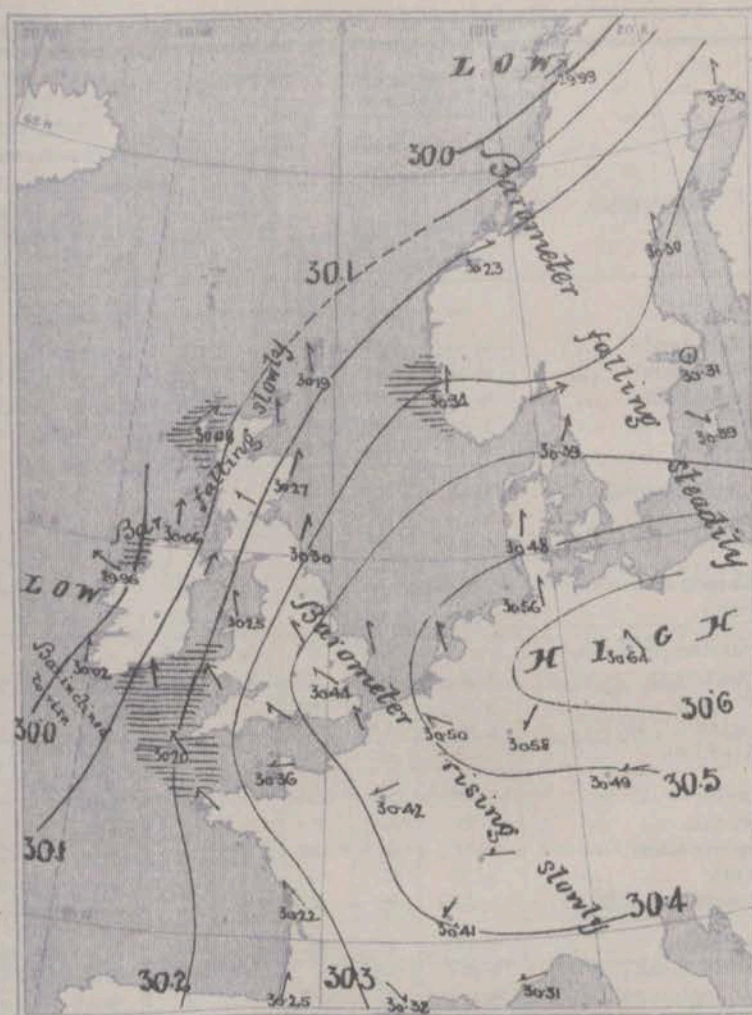
— Rough, — High.

## MEAN HEIGHT OF THE BAROMETER

at 8 a.m. for the month of February

During the 20 Years, 1871—1900.

STATIONS.	MEAN HEADING.
Sumburgh Head	29.775
Stornoway	29.773
Wick	29.804
Nairn	29.814
Aberdeen	29.818
Leith	29.870
Shields	29.906
Spurn Head	29.934
York	29.939
Loughborough	29.948
Androsau	29.878
Mullaghmore	29.854
Donaghadee	29.881
Holyhead	29.914
Liverpool	29.934
Parsonstown	29.900
Valencia	29.919
Roche's Point	29.910
Pembroke	29.937
Sally	29.950
Prawle Point	29.993
Jersey	30.007
Hurst Castle	29.980
Dover	29.983
LONDON	29.989
Oxford	29.985
Cambridge	29.979
Tarmouth	29.964



# GENERAL SITUATION AT 8 A.M.

## PRESSURE

Highest, 30.6 in. and upwards, over Germany.

Lowest, 30.0 in. and less, in a depression lying off the west of Ireland, and also in another disturbance lying off the west of Norway.

Gradients slight. Barometer rising over France, and the central and southern parts of England, but falling elsewhere.

## TEMPERATURE

Highest, 49° at Valencia Island, Rock Point, and Lismore, 48° at Balmahall, 47° at Killybegs, and 46° at Mullaghmore, Parsonstown, and Buncrana.

Lowest, (1) 1° at Hakaranta, 7° at Helsingfors, and 23° at Stockholm; (2) 7° at Munich, 14° at Berlin, and 20° at Cuxhaven and Belfast.

Sharp frost occurred last night in many parts of England; in London the thermometer on the grass fell to 20° and at Oxford to 24°.

## WIND

SE or S over our Islands and the west of France; light or moderate in force generally, but fresh or strong in Ireland and the southwest of England.

Fresh or strong from the SW in Norway, and light from the same quarter in Denmark.

E or NE over western and southern Germany and the central and southern parts of France.

## WEATHER

Fine in many parts of England, as well as over France, Germany and the Netherlands.

Cloudy or overcast in Ireland, Scotland, and Scandinavia, with passing showers at Mullaghmore.

Rain fell yesterday on several parts of our extreme western and northern coasts. Bright Aurora was seen last night at Wick.

## SEA

Rough at Valencia Island, and rather rough on many other parts of our western coasts, as well as at Stromway.

## PROBABLE CHANGES IN SYSTEM NOW PREVALENT

# FORECASTS

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

The SOUTH CONE is still flying in district 0 and parts of 1 and 9.

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

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

# YESTERDAY'S 2 P.M. REPORTS.

	BAR.	THER.		WIND. Direc.	F.	WEA.	SEA.		BAR.	THER.		WIND. Direc.	F.	WEA.	SEA.
		Dry.	Wet.							Dry.	Wet.				
Skudesnaes ...	30.49	36	34	SSE	7	o	6	Valencia ...	26.09	52	51	NE	1	rm	1
Sumburgh Head ...	30.08	45	44	SSE	3	r	6	Scilly ...	30.48	50	46	SE	6	c	5
Stornoway ...	30.36	48	47	SW	3	c	3	Jersey ...	30.29	46	43	SE	3	c	3
Aberdeen ...	30.22	42	42	S	3	ogm	5	Hurst Castle ...	30.24	44	41	SE	4	bc	2
Shields ...	30.30	42	41	SSW	3	o	2	Dungeness ...	30.38	41	38	SE	3	b	3
Ardrossan ...	30.20	45	44	S	3	om	3	North Foreland ...	30.37	29	27	SE	2	b	4
Malin Head ...	30.41	47	47	S	2	o	2	London ...	30.37	45	40	SE	2	b	*
Mullaghmore ...	30.40	47	47	SE	1	od	3	Yarmouth ...	30.41	38	36	SSE	4	bc	4
Belmullet ...	30.40	52	50	SSE	2	r	4	Rochefort ...	30.17	51	46	E	3	c	*
Holyhead ...	30.26	47	45	S	4	cg	3								

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

Weather in morning fine and bright as a whole over southwestern, southern, and central Europe, with the Baltic and Gulf of Bothnia, cloudy or overcast as a whole elsewhere, with fog at Homburg and Rockfort, fog and rain in Ireland, snow at Hermannstadt. Slight rain later at several of the Irish stations and at Jersey, as well as at some of the Scandinavian stations, but none elsewhere.

Temperature fallen generally—quickly over western, rapidly over central and southeastern Europe. Morning readings exceeding 50° on the Spanish and Algerian coasts and at Malta, exceeding 45° in Ireland and at Scilly, and exceeding 35° over Great Britain generally. Below 30° to the eastward of the North Sea and as low as -24° F to -10° F over the northern half of Russia, -6° at Nicolaieff, -4° at Warsaw, and 2° to +20° over the greater part of Germany. Exceeding 50° in the extreme west and southwest of our Islands later, exceeding 55° in the south of Italy, 60° at some other Mediterranean stations, and touching 66° at Oran and 63° at Algiers.

Wind light and anticyclonic over the Baltic and all countries surrounding it; NE<sup>3</sup> to N<sup>4</sup> over Southern Europe, E in the west of France, SE<sup>1</sup> to S<sup>2</sup> over the United Kingdom, and S<sup>3</sup> to E<sup>3</sup> in Norway. A gale reported at Skudesnaes, and a strong breeze at some of our western stations and at Rome. Strong SE<sup>4</sup> to NE<sup>4</sup> breezes felt over Western Germany later, little change in our Islands.

Barometer highest 30.7 ins. and more to 30.1 ins. in a large anticyclone covering Europe, and having its central area over the Baltic and North Germany. Lowest (1) 29.8 ins. and less, in the south of Italy, and apparently still lower over Greece; (2) 30.0 ins. and less, off our extreme northwestern coasts. Anticyclone moving southwards later, but increasing in intensity, and spreading westwards towards the British 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.

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, 6<sup>th</sup> February, 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.	Barometrical.		Shade Temp.			Wind.		Sea (0 to 9).	Shade Temp.			Amount of Rainfall.			
Reading at 32° F. and Sea Level.	Dry Bulb.	Dirac.	Force (0 to 12).	Reading at 32° F. and Sea Level.	Change since Yesterday Morn.	Dry Bulb.	Wet Bulb.	Change in dry since Yesterday.	Dirac.	Force (0 to 12).	Weather.	Max.	Min.								
SCANDINAVIA.																					
Haparanda ...	30.16	3	NW	2	c	29.97	-.33	3	3	+ 2	SE	2	0	#	c	5	-13	0.12			
Hernösand ...	30.21	3	2	0	b	30.08	-.12	?	?	?	W	2	c	#	b	16	0	0.04			
Stockholm ...	30.16	27	2	0	0	30.19	-.12	20	18	- 3	Z	0	b	#	0	36	16	-			
Wisby ...	30.22	30	NW	4	0	30.23	-.16	29	28	+ 3	N	2	f	#	0	30	14	0.04			
Bodö ...	29.89	37	SW	6	r	30.05	+ .06	32	31	- 6	NW	4	m	2	r	38	32	-			
Christiansund...	30.28	41	WSW	3	0	30.21	-.02	42	39	+ 2	SW	2	0	3	0	43	39	-			
Skudesnaes ...	30.35	39	2	0	f	30.30	-.04	38	37	- 1	S	4	0	9	f	39	36	-			
Christiania Fjord (Furder)	30.30	27	N	2	b	30.29	+.01	26	25	- 5	Z	0	b	1	b	31	25	-			
Skagen (The Seaw)	30.32	30	NE	1	b	30.32	-.07	24	24	- 4	NW	1	f	0	b	36	23	0.04			
Faro ...	30.40	21	N	1	b	30.38	-.10	32	31	+ 6	NW	1	f	0	b	32	26	-			
Sunburgh Head	30.16	41	SSE	2	c	30.04	-.15	41	40	+ 1	SSE	1	bc	4	c	44	39	0.01			
Stornoway ...	30.02	35	S	5	0	29.99	-.15	45	44	+ 0	SW	6	c	6	bc	48	34	0.02			
Wick ...	30.10	42	S	1	b	30.02	-.13	42	40	+ 1	S	1	b	1	b	44	39	-			
Nairn ...	30.14	39	Z	0	b	30.03	-.14	39	37	- 5	SW	1	b	0	b	50	35	-			
Aberdeen ...	30.21	27	S	3	ogm	30.15	-.12	39	37	- 1	S	3	cm	3	ogm	43	34	-			
Leith ...	30.22	42	Z	0	0	30.16	-.08	41	39	- 2	Z	0	cm	#	0	49	34	-			
Shields ...	30.27	33	S	3	c	30.23	-.07	31	30	- 2	SW	2	bc	2	cm	37	29	-			
Spurn Head ...	30.31	35	SSE	3	b	30.31	-.08	30	29	- 3	SW	2	ogm	2	b	38	29	-			
York ...	30.34	34	S	2	b	30.31	-.06	29	29	- 2	S	1	b	#	b	36	27	-			
Loughborough	30.36	33	SSE	2	b	30.35	-.05	29	28	- 1	SE	1	bc	#	b	40	26	-			
Ardrossan ...	30.21	42	ESE	3	om	30.14	-.08	43	42	+ 1	SE	4	0	3	om	43	39	-			
Malin Head ...	30.04	46	S	5	0	29.99	-.07	45	44	+ 3	S	5	0	3	0	47	42	-			
Mullaghmore ...	30.02	49	SSE	6	ogp	30.00	-.03	47	43	+ 1	SW	5	ogm	5	ogp	50	42	-			
Belmullet ...	30.02	45	S	3	cp	29.94	-.02	49	46	+ 1	S	6	0	#	cp	50	44	0.12			
Donaghadee ...	30.18	43	SSW	4	0	30.13	-.09	45	45	+ 3	SSW	5	0	3	0	45	42	0.02			
Liverpool (Bliston)	30.30	36	SE	3	b	30.29	-.01	33	31	0	SE	3	b	2	b	47	32	-			
Holyhead ...	30.25	42	S	3	b	30.21	-.04	43	42	+ 4	S	4	og	4	b	44	39	-			
Parsonstown ...	29.99	47	SE	1	r	30.10	-.00	45	44	- 1	SE	1	c	#	0.1	49	42	0.01			
Valencia ...	30.11	46	S	1	b	30.07	+ .05	50	48	+ 1	SSE	4	0	6	c, b	52	44	0.18			
Roche's Point	30.11	49	S	5	r	30.15	+ .03	48	47	- 1	SSW	4	bc	4	rm	50	44	0.25			
Pembroke (St. Ann's Hd.)	30.25	43	SE	4	c	30.23	-.02	44	44	+ 2	NNE	1	dm	5	c	44	41	0.03			
Scilly ...	30.21	48	SSE	5	om	30.22	+ .02	50	50	+ 3	S	5	m	4	om	50	45	0.03			
Prawle Point ...	30.34	39	ESE	3	b	30.35	+ .03	43	43	+ 3	ESE	2	ogm	2	b	43	39	-			
Jersey (St. Aubin's)	30.36	39	ESE	3	bm	30.40	+ .04	38	36	+ 1	SSE	3	bc	3	bm	42	36	-			
Hurst Castle ...	30.38	37	ESE	3	b	30.37	-.00	39	38	+ 3	SSW	2	b	2	b	41	30	-			
Dungeness ...	30.40	37	SSE	3	bc	30.38	-.02	37	36	+ 4	SW	3	bc	2	b, bc	39	32	-			
North Foreland	30.44	36	SE	2	b	30.38	-.04	35	34	+ 1	SSW	1	bm	2	b	36	30	-			
London ...	30.39	34	SE	1	b	30.39	-.05	26	25	- 3	Z	0	f	#	bc, b	39	24	-			
Oxford ...	30.39	33	SE	1	b	30.38	-.03	27	27	- 7	SE	1	f	#	0, b	40	27	-			
Cambridge ...	30.40	32	S	1	bc	30.40	-.03	25	25	- 5	S	1	0	#	bc	45	21	-			
Yarmouth ...	30.39	35	S	3	bc	30.36	-.06	29	29	- 5	SW	3	bf	3	bc	37	27	-			
Cuxhaven ...	30.50	30	SW	2	c	30.43	-.13	32	30	+ 12	Z	0	f	#	c	32	20	-			
Berlin ...	30.47	27	SSW	2	b	30.39	-.25	23	22	+ 9	NW	2	c	#	b	30	14	-			
Wiesbaden ...	30.52	14	E	2	b	30.50	-.08	22	21	- 1	E	2	b	#	#	30	21	-			
Munich ...	30.52	14	E	2	b	30.50	+ .01	18	17	+ 11	NE	1	bc	#	b	19	7	-			
The Helder ...	30.50	28	SSE	1	b	30.46	-.07	24	24	- 1	SSE	1	b	1	b	34	23	-			
Brussels (o.m.)	*	*	*	*	*	30.45	-.05	28	25	+ 5	S	2	b	#	b	38	23	-			
Cape Gris Nez	30.36	32	Z	0	b	30.36	-.00	28	28	0	S	1	m	1	b	36	25	-			
Paris ...	30.49	33	ESE	2	b	30.48	+ .06	23	23	- 3	SE	1	b	#	b	41	23	-			
Brest ...	?	44	SSE	3	c	?	?	45	44	+ 6	SE	3	0	5	c	48	37	-			
Lorient ...	30.33	46	SE	3	bc	30.38	+ .12	41	41	+ 7	E	4	m	5	bc	46	34	-			
Rochefort ...	30.31	43	WSW	1	b	30.35	+ .09	33	32	+ 2	SSE	2	b	#	b	52	28	-			
Belfort ...	?	23	E	3	b	?	?	19	19	- 1	E	3	b	#	b	30	16	-			
Lyons ...	30.51	26	ENE	1	b	30.56	+ .15	23	22	- 5	WNW	1	f	#	b	33	23	-			
Nice ...	30.39	37	E	1	b	30.49	+ .18	31	28	- 7	W	2	b	2	b	46	30	-			
Perpignan ...	30.45	42	SW	2	c	30.50	+ .18	36	35	- 2	SW	2	0	#	c	47	35	-			
Biarritz ...	30.34	51	N	2	0	30.39	+ .14	46	43	0	S	3	b	2	0	52	45	-			
Corunna ...	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*			
Lisbon ...	30.43	50	NW	4	b	30.46	+ .13	46	45	- 3	NNE	3	b	#	b	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 Monday, 6<sup>th</sup> Feb: 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

→ force above 10 → force 8 to 10,  
→ force 6 to 7 → force 4 to 6,  
→ force 1 to 4  
→ dead calm

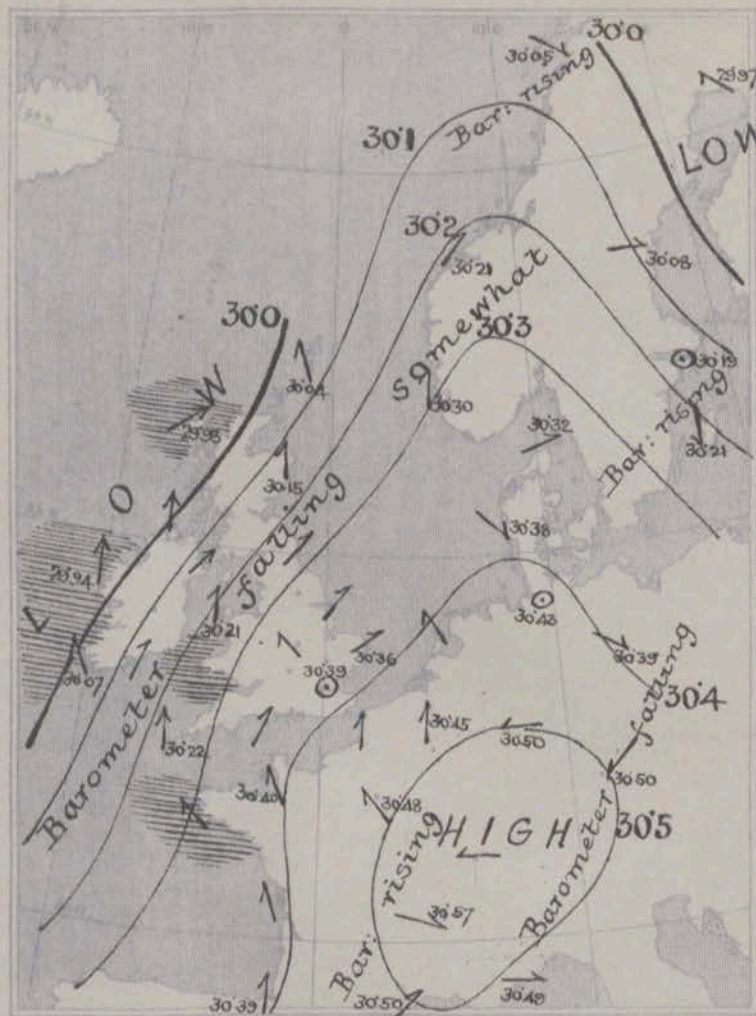
**SEA DISTURBANCE**—Where considerable, is shown thus

☼ = Swell ☼ = High

## MEAN HEIGHT OF THE BAROMETER

at 8 a.m. for the month of February  
During the 29 years 1871-1890

STATIONS.	MEAN HEADINGS.
Samburgh Head	29.775
Stornoway	29.773
Wick	29.804
Nairn	29.834
Aberdeen	29.848
Leith	29.870
Shields	29.906
Spurn Head	29.934
York	29.959
Loughborough	29.965
Androssan	29.873
Mullaghmore	29.851
Donaghadee	29.884
Holyhead	29.814
Liverpool	29.934
Parsonstown	29.900
Valencia	29.919
Roche's Point	29.916
Pembroke	29.937
Sally	29.950
Prawle Point	29.998
Jersey	30.007
Hurst Castle	29.986
Dover	29.983
LONDON	29.939
Oxford	29.985
Cambridge	29.979
Tarmouth	29.964



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

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

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

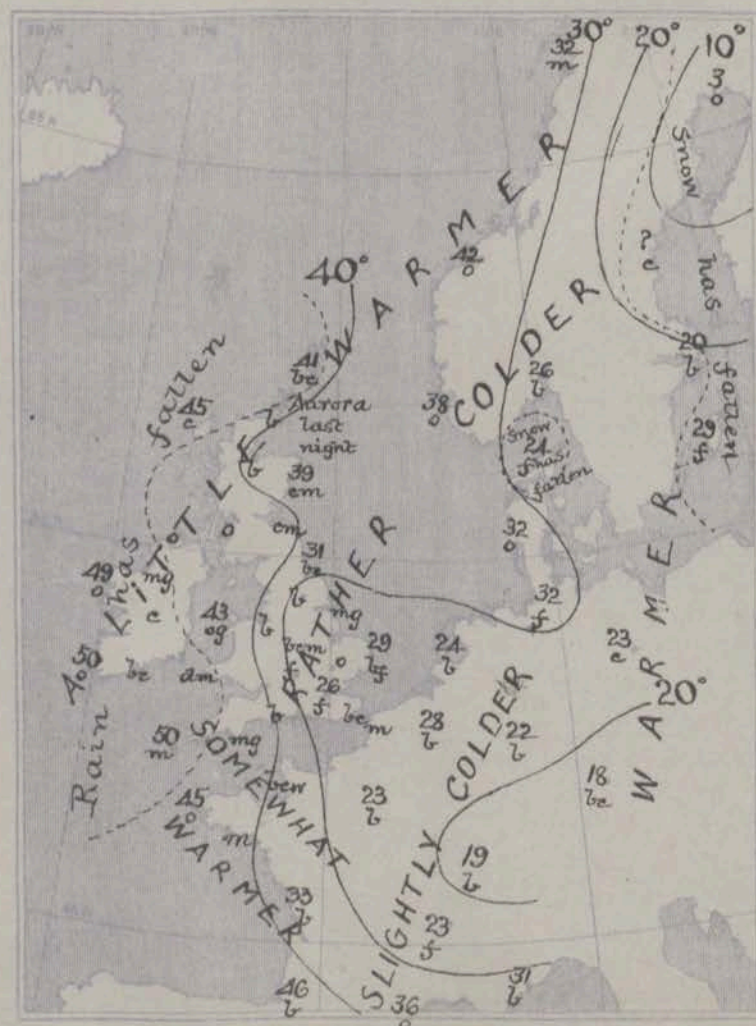
**RAINFALL**—A dotted line separates the districts in which rain has fallen from those where there has been none. Falls of 0.5 in. or more are quoted in figures.

### MEANS OF TEMPERATURE IN SHADE, AND RAINFALL

(For the month of February.)

STATIONS.	TEMPERATURE				RAINFALL (inches)
	Daily Max	Daily Min	Dry	Wet	
Samburgh Head	42.4	34.5	38.5	37.4	3.19
Stornoway	42.5	34.8	39.1	38.1	4.86
Wick	42.1	34.2	38.1	36.7	2.94
Nairn	45.4	38.4	37.1	35.4	1.48
Aberdeen	48.2	38.8	37.4	35.7	2.34
Leith	46.7	34.3	38.6	37.1	1.45
Shields	48.8	35.1	38.6	37.3	1.50
Spurn Head	42.3	35.0	38.4	37.6	1.36
York	44.0	33.0	37.5	36.4	1.70
Loughborough	45.2	33.9	37.4	36.4	1.18
Androssan	44.0	30.3	39.4	38.2	3.04
Mullaghmore	46.5	30.0	40.0	40.3	3.09
Donaghadee	45.0	35.0	40.3	39.3	2.42
Holyhead	46.5	38.7	41.3	40.1	2.60
Liverpool	44.6	36.2	38.0	37.3	1.68
Parsonstown	46.8	35.0	38.1	38.1	2.20
Valencia	49.7	39.7	44.0	42.9	4.05
Roche's Point	48.4	39.6	43.1	41.6	4.13
Pembroke	48.5	39.4	42.1	40.9	3.82
Sally	48.9	42.0	40.0	41.4	2.71
Prawle Point	46.8	38.1	41.5	40.5	2.02
Jersey	45.0	39.3	42.3	41.0	2.55
Hurst Castle	45.7	36.7	40.3	39.3	2.25
Dover	44.7	35.1	39.2	38.1	1.95
LONDON	45.6	35.1	39.0	37.4	1.73
Oxford	45.0	34.5	37.9	36.8	1.92
Cambridge	45.5	32.8	37.8	36.2	1.46
Tarmouth	47.6	34.5	38.2	37.3	1.82

NOTE—The Temperature means are for the 29 years 1871-90, the Rainfall means are mainly those for the 25 years 1865-90.



# GENERAL SITUATION AT 8 A.M.

## PRESSURE

Highest, 30.4 in. to 30.5 in. and upwards in an anticyclone lying over France, Spain, Germany, and the Netherlands.  
Lowest, 30.0 in. and less, on the west coast of Ireland and Scotland, and also in the north of Sweden.

Gradients moderate over the west and north of our Islands, slight elsewhere.

Barometer falling a little in most parts of the United Kingdom, as well as in Norway, Denmark and Germany, rising in Sweden and France.

## TEMPERATURE

Highest, 50° at Valentia Island and Lilly, 45° at Belmullet, 48° at Rokeby, 47° at Mullaghmore, and 46° at Biarritz and Lisbon.

Lowest, 3° at Haparanda, 15° at Munich, 13° at Riga, 20° at Stockholm, 22° at Wiesbaden, and 23° at Berlin, Paris, and Lyons.

Frost first occurred over England last night; in the screen the thermometer fell to 26° at Cambridge and 24° in London, and on the surface of the ground to 14° in London and 20° at Oxford.

## WIND

Fresh or strong from the S.W. in Ireland and the west of Scotland, and light from the same quarter in most other parts of the United Kingdom, as well as in the west of France.

Calm or light from the W. or N.W. in Sweden, Denmark, and Germany, variable over the central and southern part of France.

## WEATHER

Fair over the greater part of our area, but dull at many of our western stations, and foggy in some parts of Central England as well as at Nisby, Skagen, Copenhagen, and Lyons.

Since yesterday morning a little rain has fallen at several of our western stations, as well as in the Fethlands and Hebrides.

Bright Aurora was seen last night at Wick and Aberdeen.

## SEA

Rough or rather so at many of our western and northern stations, as well as off the northwest of France.

## PROBABLE CHANGES IN SYSTEM NOW PREVALENT

There are at present no indications of any decided change in the weather, but the depressions which are skirting our western coasts seem likely to occasion increasing S.W. winds in Ireland and the west of Scotland.

## FORECASTS

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

### DISTRICTS.

### FORECASTS.

- |   |                  |  |
|---|------------------|--|
| 0 | SCOTLAND NORTH   | S <sup>ly</sup> and SW <sup>ly</sup> winds, strong; fine to dull and some rain.  |
| 1 | SCOTLAND EAST    |  |
| 2 | ENGLAND N.E.     | S <sup>ly</sup> winds, moderate; fair generally.                                 |
| 3 | ENGLAND EAST     |  |
| 4 | MIDLAND COUNTIES | S <sup>ly</sup> winds, light; fair generally, but foggy at some inland stations. |
| 5 | ENGLAND SOUTH    |  |



### DISTRICTS.

### FORECASTS.

- |    |               |  |
|----|---------------|--|
| 6  | SCOTLAND WEST | SE <sup>ly</sup> and S <sup>ly</sup> winds, freshening; some rain. |
| 7  | ENGLAND N.W.  |  |
| 8  | ENGLAND S.W.  |  |
| 9  | IRELAND NORTH | S <sup>ly</sup> winds, strong; dull, rain at times.                |
| 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.	P.	WEA.	SEA.		BAR.	THER.		WIND.	P.	WEA.	SEA.
		Dry.	Wet.	Dirac.						Dry.	Wet.	Dirac.			
Skudesnaes ...	35	39	30	ESE	1	f	4	Valencia ...							
Sumburgh Head								Scilly ...							
Stornoway ...	30.07	48	47	SW	5	bc	5	Jersey ...	30.36	41	37	SE	3	b	3
Aberdeen ...								Hurst Castle							
Shields ...								Dungeness...	30.41	38	35	SSE	4	b	3
Ardrossan ...								North Foreland...	30.44	36	34	SE	2	b	3
Malin Head ...	30.02	46	44	SSE	6	0	3	London ...							
Mullaghmore ...								Yarmouth ...							
Belmullet ...	29.97	48	46	S	5	0		Rochefort ...	30.29	45	42	E	1	b	
Holyhead ...	30.26	44	40	S	4	b	3								

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

Weather in morning fine and bright over nearly the whole of W. central, and E. Europe, including many parts of England and Wales, cloudy or overcast elsewhere, unsettled over the E. parts of the Mediterranean, rain showers in Ireland, snow at St. Petersburg, and at Constantinople. Snow showers in Sweden later, some rain in Ireland and in the northwest of France, but very fine weather over England.

Temperature risen over Scandinavia and the Baltic, fallen elsewhere - very quickly in the S. and SE. morning readings exceeding 50° at Malta and some of the Algerian stations, 45° to 49° in the W. and S. of Ireland, and above 40° on our W. and N. coasts generally, very much lower elsewhere; below 30° over our E. coasts and central France, below 15° in many parts of Germany, and as low as -34° F. at Archangel, and -21° to -4° over Russia generally, -9° at Crasno, -5° at Hermanstadt. Exceeding 50° in the W. and S. of Ireland later, but less high at the other western stations in the British Isles and France, and not touching 40° over our NE. and E. coasts.

Wind strong from NE. over S. Europe, moderate from SE. and E. in the W. and N. of France, moderate to strong from SE. to S. on our own NW. coasts, and from SW. in the W. of Norway. Anticyclonic air prevalent over central Europe. Becoming more S. over the United Kingdom later.

Barometer highest 30.8 ins. and more to 30.5 ins. in a large anticyclone covering nearly the whole of Europe, and having its centre over Austria-Hungary & Poland. Lowest about 30.0 ins. at Malta and in the extreme south of Italy, on the one hand, and rather below that value off the NW. of Ireland on the other. Changing very little over the British Islands later, falling decidedly over the Baltic.

## SUMMARY OF CHANGES IN THE WEATHER OVER THE BRITISH ISLANDS AND THEIR NEIGHBOURHOOD FROM THE 29<sup>TH</sup> JAN. TO 4<sup>TH</sup> FEB. 1893.

The weather of last week was mild, changeable and unsettled, with frequent falls of rain in most districts, and with gales at some of our western and southern stations.

During the early part of the time barometrical pressure was highest over France, and lowest in a series of cyclonic systems which travelled in a NNE. direction along our extreme western coasts. The prevailing winds were therefore S. or SW. with gales in the extreme north and northwest on the 30<sup>th</sup> January, and with heavy falls of rain in some parts of Ireland. On the night of the 31<sup>st</sup> Jan. a well marked secondary depression travelled quickly eastwards across Ireland and England, and on the following day when this passed away over the North Sea the wind increased to a strong gale from the W. at the mouth of the Thames.

Towards the close of the week the high pressure area over France gave way, while a large anticyclone of considerable intensity appeared over Sweden and northern Russia. The latter system eventually spread out in a westerly direction over the North Sea, and the winds in our coasts consequently backed to the S. and SE. with some improvement in the weather.

Temperature was high during the greater part of the time, the maximum readings being frequently above 50° in the western and southern districts, and occasionally above it even in the north. At the close of the week, however, a steady fall took place over England; the daily maxima in some parts of our eastern coasts being below 40° both on the 3<sup>rd</sup> and 4<sup>th</sup>.

## EXPLANATION OF THE COLUMNS GIVEN ON PAGE 1.

WEATHER.—Beaufort Scale is b. blue sky; c. detached clouds; d. drizzling rain; f. fog; g. dark, gloomy; h. hail; i. 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 7<sup>TH</sup> FEBRUARY.** 1893

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

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STATIONS.	YESTERDAY EVENING. (See note at bottom of last page.)						THIS MORNING. (See note at bottom of last page.)										PAST 24 HOURS.			
	BAROM.		TEMP.		WIND.		BAROMETR.		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 5).	Weather.	Max.	Min.	Amount of Rainfall.		
Inch.	°					Inch.	°	°	°							°	°	Inch.		
SCANDINAVIA.																				
Haparanda ...	30.04	31	2	0	b	29.93	-0.11	31	31	-4	SE	2	0	*		b	25	2	—	
Hernösand ...	29.93	31	2	0	o	29.82	-0.11	31	31	-4	SE	2	0	*		o	25	0	—	
Stockholm ...	30.07	34	W	2	b	29.94	-0.13	34	34	-4	SW	2	0	*		b	32	18	—	
Wisby ...	30.13	31	WNW	4	b	30.04	-0.09	31	30	+2	WNW	4	0	*		b	32	21	—	
Bodö ...	29.86	33	E	2	s	29.67	-0.19	34	33	+2	E	2	7	1		s	34	32	0.35	
Christiansund...	30.06	31	SE	3	c	29.63	-0.43	40	31	-2	SE	2	0	4		c	41	27	—	
Skudesnaes ...	30.18	31	SE	5	o	29.78	-0.40	31	31	-1	SE	2	7	5		o	41	36	—	
Christiania Fjord (Faurder)	30.18	32	N	2	f	29.87	-0.31	19	18	-7	N	2	7	2		f	26	1	—	
Skagen (The Scaw)	30.17	33	W	3	m	29.73	-0.44	33	32	+9	WNW	2	m	1		m	34	24	—	
Fanö ...	30.21	32	SW	4	o	30.03	-0.18	33	33	+1	SW	4	0	*		o	34	28	—	
BRITISH ISLANDS.																				
Sumburgh Head	29.85	43	SE	3	o	29.52	-0.33	43	43	+4	SW	2	0	4		o	44	41	0.09	
Stornoway ...	29.65	45	SW	7	o	29.55	-0.10	44	43	-1	SW	4	c	5		o	44	42	0.05	
Wick ...	29.81	42	S	3	o	29.53	-0.28	41	40	-1	W	3	b	2		o	47	40	—	
Nairn ...	29.81	47	SW	3	c	29.68	-0.13	42	40	+2	SW	3	b	2		c	50	37	—	
Aberdeen ...	29.93	44	SE	7	ogg	29.75	-0.18	43	39	+4	WNW	3	b	4		ogg	46	35	—	
Leith ...	30.00	44	S	1	o	29.87	-0.13	43	43	+4	WNW	4	b	*		o	50	30	0.01	
Shields ...	30.12	38	S	3	c	29.95	-0.17	44	41	+13	SW	2	cw	2		b	44	30	—	
Spurn Head ...	30.23	34	SE	3	S	30.05	-0.18	40	40	+10	SW	1	brn	2		S	42	28	—	
York ...	30.21	35	SE	1	f	30.03	-0.18	43	43	+16	WNW	2	b	*		f	45	28	—	
Loughborough	30.27	40	SE	2	b	30.17	-0.10	44	42	+15	W	2	b	*		b	48	39	—	
Ardrossan ...	29.57	45	S	4	om	29.93	-0.64	44	43	+1	WNW	4	c	3		om	45	41	0.03	
Malin Head ...	29.76	50	S	7	ou	29.81	-0.05	44	42	-1	SW	6	b	4		ou	50	43	0.01	
Mullaghmore ...	29.72	52	S	8	ogm	29.93	-0.79	45	45	-2	SE	5	brn	5		ogm	53	43	0.07	
Belmullet ...	29.72	51	SE	8	o	30.01	+0.09	49	48	-2	SW	4	o	*		o	52	48	0.00	
Donaghadee ...	29.91	46	S	6	c	30.02	-0.11	43	42	-2	WNW	6	b	4		c	47	43	0.01	
GERMANY & HOLLAND.																				
Liverpool (Bidston)	30.17	44	SE	3	o	30.15	-0.02	46	42	+13	SW	2	b	1		o	51	34	0.02	
Holyhead ...	30.10	46	S	5	omg	30.14	-0.04	44	43	+1	SW	4	b	4		omg	48	42	0.06	
Parsonstown ...	29.93	51	SW	1	o	30.13	+0.03	45	43	0	2	0	b	*		o	53	43	0.02	
Valencia ...	29.97	54	SE	6	Trng	30.23	+0.26	50	49	0	SW	4	cm	6		Trng	54	49	0.05	
Roche's Point	30.06	50	SE	5	Trn	30.24	+0.09	45	44	-1	W	2	b	4		Trn	53	48	0.10	
Pembroke (St. Ann's Hd.)	30.11	47	S	5	f	30.23	0.00	47	46	+3	W	4	b	5		f	48	43	0.13	
Scilly ...	30.22	50	SE	5	o	30.22	+0.10	49	48	-1	W	4	o	6		o	52	47	0.05	
Prawle Point ...	30.31	46	S	2	T	30.32	-0.01	44	44	+1	W	2	cm	1		T	48	43	0.15	
Jersey (St. Aubin's)	30.31	44	SE	1	cm	30.35	-0.04	47	46	+3	SE	3	o	3		cm	47	37	0.05	
Hurst Castle ...	30.37	40	S	4	m	30.28	-0.09	44	44	+5	W	4	b	2		m	46	38	0.04	
Dungeness ...	30.27	40	SW	4	c	30.21	-0.06	45	44	+8	WNW	5	omr	4		c	45	37	—	
North Foreland	30.35	36	SE	2	b	30.20	-0.15	45	45	+10	SW	2	og	3		b	45	34	—	
London ...	30.35	35	SE	2	b	30.24	-0.11	47	46	+21	SW	2	o	*		b	47	26	0.04	
Oxford ...	30.31	38	S	1	o	30.23	-0.08	45	44	+11	WNW	2	brn	*		o	48	27	0.02	
Cambridge ...	30.33	34	SW	1	b	30.19	-0.14	46	45	+21	SW	1	o	*		b	46	24	0.01	
Yarmouth ...	30.32	35	WNW	3	b	30.14	-0.18	41	40	+12	WNW	3	brn	3		b	41	27	0.01	
FRANCE AND BELGIUM.																				
Cuxhaven ...	30.42	29	2	0	b	30.18	-0.24	30	29	-2	SW	2	f	*		b	32	27	—	
Berlin ...	30.43	30	WNW	2	o	30.24	-0.19	32	31	-1	WNW	2	f	*		o	30	21	—	
Wiesbaden ...	*	*	S	3	b	30.43	-0.07	33	30	+1	2	0	b	*		b	30	19	—	
Munich ...	30.49	25	SW	3	b	30.45	-0.04	35	34	+1	SW	5	b	*		b	32	18	—	
The Helder ...	30.40	34	SW	3	c	30.19	-0.21	37	37	+13	SW	6	f	3		c	37	24	—	
Brussels (9 a.m.)	*	*	*	*	*	30.34	-0.11	36	35	+8	SE	4	o	*		b	40	28	—	
Cape Gris Nez	30.20	35	SW	1	m	30.24	-0.12	41	41	+13	SE	5	m	4		m	41	28	—	
Paris ...	30.27	35	S	2	b	30.44	-0.24	34	33	+11	S	2	o	*		b	41	23	—	
Brest ...	30.27	49	S	2	c	30.44	-0.17	50	50	+5	WNW	2	o	*		c	50	41	0.01	
Lorient ...	30.37	49	S	3	o	30.37	-0.01	50	50	+3	SW	4	m	5		o	50	41	—	
PENINSULA.																				
Rochefort ...	30.41	44	SE	2	f	30.44	+0.03	43	43	+10	S	3	f	*		f	46	28	—	
Belfort ...	*	*	*	*	*	*	*	*	*	*	*	*	*	*		*	*	*	*	—
Lyons ...	30.52	32	WNW	1	b	30.58	+0.06	25	24	+2	S	1	f	*		b	22	23	—	
Nice ...	30.43	37	E	1	b	30.48	-0.05	33	33	+2	E	1	f	*		b	35	30	—	
Perpignan ...	30.44	43	SE	1	b	30.49	-0.05	33	33	-3	W	2	b	*		b	35	32	—	
Biarritz ...	30.41	51	2	0	b	30.49	+0.08	47	45	+1	S	3	b	*		b	53	43	—	
Corunna ...	30.50	34	WNW	4	b	30.52	+0.02	32	31	+6	N	5	b	*		b	61	46	—	
Lisbon ...	30.50	34	WNW	4	b	30.52	+0.02	32	31	+6	N	5	b	*		b	61	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 Tuesday, 7<sup>th</sup> February, 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 6 to 7; — forces 1 to 4.  
⊙ = dead calm.

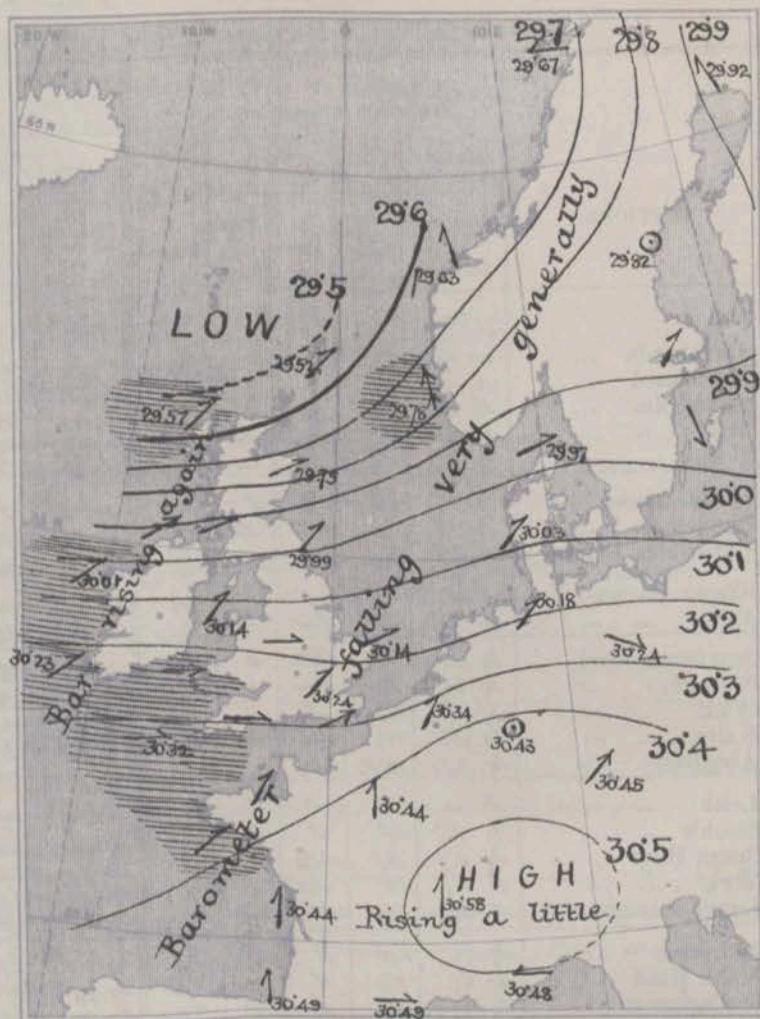
**SEA DISTURBANCE**—When considerable, is shown thus:

— = Rough. — = High.

## MEAN HEIGHT OF THE BAROMETER

at 8.0 a.m. for the month of February  
During the 20 Years, 1871–1890.

STATIONS.	MEAN READINGS.
Summargh Head	29.775
Stormway	29.773
Wick	29.804
Nairn	29.814
Aberdeen	29.818
Leith	29.870
Shields	29.906
Spurn Head	29.931
York	29.939
Loughborough	29.963
Ardrossan	29.873
Mullaghmore	29.851
Donaghadee	29.881
Holyhead	29.914
Liverpool	29.934
Parsonstown	29.908
Valencia	29.919
Rocha's Point	29.910
Pembroke	29.937
Sally	29.959
Prawle Point	29.983
Jersey	30.007
Hurst Castle	29.946
Dover	29.985
LONDON	29.989
Oxford	29.985
Cambridge	29.978
Yarmouth	29.961



## 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.

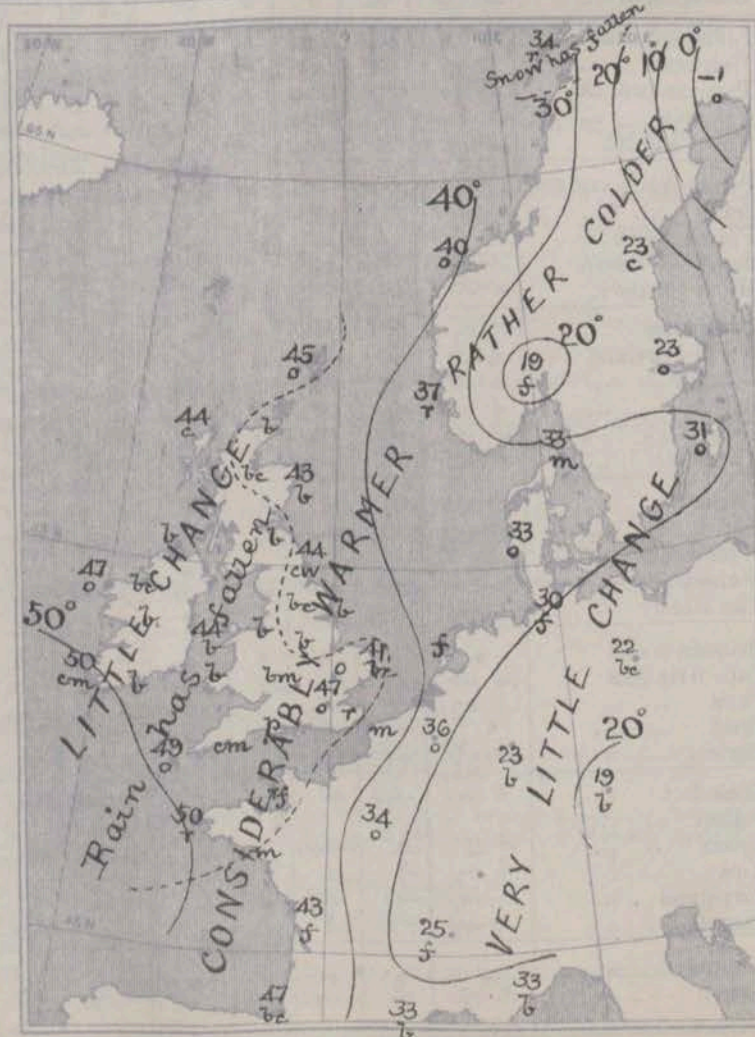
**RAINFALL**—A dotted line separates the districts in which rain has fallen from those where there has been none. Falls of 0.5 in. or more are quoted in figures.

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

(For the month of February.)

STATIONS	TEMPERATURE				RAINFALL (inches)
	Daily Max	Daily Min	at 8 a.m.	Wind	
Summargh Head	42.4	34.5	38.5	37.4	5.19
Stormway	43.0	34.6	39.1	38.1	3.86
Wick	43.1	33.2	38.1	36.7	2.81
Nairn	43.1	33.4	37.1	35.4	1.48
Aberdeen	43.2	31.8	37.3	35.7	2.35
Leith	46.7	34.3	38.6	37.1	1.45
Shields	43.8	35.1	38.6	37.3	1.50
Spurn Head	42.3	35.0	38.4	37.6	1.36
York	41.6	33.9	37.6	36.4	1.79
Loughborough	46.3	33.0	37.3	36.1	1.78
Ardrossan	44.0	35.2	39.4	38.2	1.04
Mullaghmore	46.6	35.6	42.0	40.3	3.59
Donaghadee	45.5	36.9	40.3	39.3	2.42
Holyhead	46.5	38.7	41.5	40.1	2.00
Liverpool	44.5	36.2	38.9	37.3	1.69
Parsonstown	46.0	35.6	39.4	38.1	2.26
Valencia	49.7	40.7	44.6	42.0	1.95
Rocha's Point	48.4	39.6	45.1	41.6	4.43
Pembroke	45.5	39.4	42.7	40.9	2.84
Sally	48.0	42.8	46.0	44.4	7.71
Prawle Point	46.8	38.1	41.5	40.5	2.02
Jersey	46.9	39.3	42.3	41.0	2.55
Hurst Castle	45.7	40.3	40.3	39.3	2.20
Dover	44.5	36.1	39.2	38.1	1.46
LONDON	45.5	36.1	38.0	37.4	1.73
Oxford	45.0	34.9	37.9	36.8	1.92
Cambridge	45.5	32.8	37.3	36.2	1.46
Yarmouth	42.0	34.0	38.2	37.3	1.82

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



# GENERAL SITUATION AT 8 A.M.

## PRESSURE

Highest, 30.6 in: and upwards, to 30.2 in: over Spain, France, Germany, and the southern and southwestern parts of our islands.  
 Lowest, 29.6 in: and less, over the north of Scotland and the Shetland Isles.  
 Gradients slight over France, moderate to rather steep over the British Islands.  
 Barometer rising again on our west and southwest coasts, falling in the far north.

## TEMPERATURE

Highest, 52° at Lisbon, 45° to 50° on our own southwestern coasts and the coasts of Brittany.  
 Lowest, -1° F. at Haparanda, +23° at Helsingfors and Stockholm, 19° to 22° at the German stations.  
 It has risen rapidly over England during the past twenty-four hours - as much as 24° in London.

## WIND

E. to SSE<sup>1</sup> in Norway (a gale at Skudenes).  
 SW<sup>1</sup> to W<sup>1</sup> over the British Islands and North Sea - moderate in most places, but strong at the Helles and on our northwest coasts.  
 Light and variable over France, fresh W<sup>1</sup> in the Channel, but decreasing.  
 A moderate to fresh gale from SW. was felt in the western and northern parts of our islands last night.

## WEATHER

Changeable over our islands and their neighbourhood, although clear, temporarily, in many places.  
 Rain has fallen at a few northern stations, and in all parts of Ireland and England, but the quantity was very small.

## SEA

Rough on our southwestern coasts and rather so in the Minch, moderate in the Channel, slight or smooth in the east and northeast.

## PROBABLE CHANGES IN SYSTEM NOW PREVALENT

The present distribution of pressure is very favourable for the advance of further depressions to our western and northwestern coasts, but at present the appearance is not threatening for the more eastern localities.

# FORECASTS

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

DISTRICTS.	FORECASTS.	DISTRICTS.	FORECASTS.
0 SCOTLAND NORTH 1 SCOTLAND EAST 2 ENGLAND N.E. 3 ENGLAND EAST 4 MIDLAND COUNTIES 5 ENGLAND SOUTH	SW <sup>1</sup> and S <sup>1</sup> winds, varying in strength, changeable, showery. SW <sup>1</sup> winds, moderate; some showers, bright intervals. SW <sup>1</sup> winds, moderate; fair as a whole, colder tonight.	6 SCOTLAND WEST 7 ENGLAND N.W. 8 ENGLAND S.W. 9 IRELAND NORTH 10 IRELAND SOUTH	SW <sup>1</sup> and S <sup>1</sup> winds, fresh to strong; showery. W <sup>1</sup> and SW <sup>1</sup> winds fresh; showers at times, bright intervals. Wind backing to S <sup>1</sup> and increasing; fair to rainy. At 3.40 pm yesterday to parts of districts 0, 6, 7, 9 and 10. Hoist South Cone. At 10.40 am today to districts 6 and 7. Lower Cone.
		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. Dirac.	F.	WEA.	SEA.		BAR.		THER.		WIND. Dirac.	F.	WEA.	SEA.
		Dry.	Wet.								Dry.	Wet.				
Skudeanaes ...	30.27	35	35	SE 1/2 E	4	0	2		Valencia ...	29.79	52	52	SE 1/2 E	5	mg	6
Sumburgh Head ...	30.96	42	42	SE 1/2 W	2	bc	4		Scilly ...	30.23	52	52	S	4	f	4
Stornoway ...	30.80	45	44	SE 1/2 W	7	0	6		Jersey ...	30.41	41	40	SE 1/2 E	2	f	2
Aberdeen ...	30.05	41	40	S	3	og	3		Hurst Castle ...	30.37	43	41	SE 1/2 W	4	f	2
Shields ...	30.15	43	40	SE 1/2 W	2	bc	2		Dungeness ...	30.37	42	40	SE 1/2 W	3	c	2
Ardrossan ...	30.07	45	44	S	5	om	4		North Foreland ...	30.38	40	39	SE 1/2 W	2	bc	3
Malin Head ...	30.86	45	46	S	6	0	3		London ...	30.36	44	41	SE 1/2 W	2	bc	3
Mullaghmore ...	29.90	51	48	SE 1/2 E	6	og	5		Yarmouth ...	30.28	37	35	SE 1/2 W	2	bc	3
Belmullet ...	29.81	50	47	SE 1/2 W	7	0	4		Rocheport ...	30.41	42	41	SE 1/2 W	3	f	*
Holyhead ...	30.7	46	45	S	5	mg	4									

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

Weather in morning fine and bright over the Mediterranean, Spain, and France, as well as over several parts of England and in Central Russia. Thick fog over our south midland counties, and sky overcast in the west, with a somewhat unsettled appearance. Slight rain later at the English and Irish stations, and in the extreme north of Scotland. Aurora at Haparanda.

Temperature fallen fast over England, risen rapidly over Germany and Poland, fallen over Central and Southern Russia. Morning readings 51° at Algiers and Oran, 35° at Oran, 50° at Valencia (Ireland); exceeding 40° on the Atlantic coasts of Europe generally, much lower inland. Lowest (1) 34° F to -1° over Russia, -7° at Hermanstadt, +3° at Huda Pesh and Haparanda, and considerably below the freezing point over Germany and France; (2) 25° at Cambridge, 26° in London, 27° to 29° over our midland counties. Rising to above 50° over Ireland during the day, and to between 40° and 45° over the inland parts of England.

Wind light and exceedingly variable over the inland parts of Europe. S<sup>3</sup> over the United Kingdom - very light over England, moderate to strong at the western and northwestern stations; light from between NW and W. over Sweden, but from SE. over Finland. The S<sup>3</sup> wind in our Islands becoming stronger generally, and blowing a moderate to fresh gale on our west and northwest coasts.

Barometer highest 30.5 ins and more to 30.3 ins in a complex anticyclone covering southern, southern, and central Europe, and the greater part of the North Sea; 30.4 ins and more to 30.3 ins in another over Russia. Lowest, 30.0 ins and less, over the northwestern parts of Ireland and Scotland and over Lapland and the north of Finland, as well as over the Mediterranean, a little to the southward of Malta. A new depression approaching our west and northwest coasts later from the Atlantic and causing a rapid fall of the barometer in those regions.

### 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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# DAILY WEATHER REPORT

for 8 a.m. on Wednesday, 8<sup>th</sup> February, 1893

1893

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

Issued by the Meteorological Office, 55, Victoria Street, London. W. H. SCOTT, Secretary.																			
STATIONS.	YESTERDAY EVENING. (See note at bottom of last page.)						THIS MORNING. (See note at bottom of last page.)								PAST 24 HOURS.				
	BAROM.		TEMP.		WIND.		BAROMETER.		SHADE TEMP.			WIND.				SHADE TEMP.		Amount of Rainfall.	
	Reading at 32° F. and Sea Level.		Dry Bulb.		Direc. Force (0 to 12).		Reading at 32° F. and Sea Level.		Change since Yesterday Morn.			Direc. Force (0 to 12).		Weather.		Max. Min.			
	Ina.					Weather.	Ina.		Dry Bulb.	Wet Bulb.	Change in dry since Yesterday.	Direc.	Force	Weather.	Sea (0 to 9).	Weather.	Max.		Min.
SCANDINAVIA.	Haparanda ...	29.75	-2	2	0	S	29.67	-26	-6	-6	-5	E	2	0	4	S	1	-8	0.04
	Hernösand ...	29.58	15	NE	2	S	29.56	-26	5	4	-18	NE	14	S	4	S	37	?	0.16
	Stockholm ...	29.43	29	2	0	S	29.34	-53	20	19	-3	NE	2	S	4	S	32	19	0.20
	Wisby ...	29.50	29	NE	6	S	29.30	-64	29	28	-2	NE	8	S	4	S	32	25	0.24
	Bodö ...	29.37	33	E	4	0	29.19	-48	18	15	-16	E	7	S	3	0	36	14	-
	Christiansund...	29.41	22	NSW	5	c	29.38	-25	39	37	-1	NSW	4	r	5	c	41	37	-
	Skudesnaes ...	29.61	41	W	3	r	29.49	-29	36	36	-1	NSW	1	f	4	om, r	43	34	-
	Christiania Fjord (Furder)	29.53	23	2	0	f	29.43	-46	22	22	+3	2	0	b	4	f	23	?	-
	Skagen (The Scaw)	29.56	36	WNW	4	bc	29.47	-50	35	34	+2	WNW	4	b	2	bc	36	32	0.04
	Fanö ...	29.83	36	W	6	b	29.63	-40	34	34	+1	NSW	4	0	4	b	37	33	0.04
BRITISH ISLANDS.	Sumburgh Head	29.53	43	W	4	c	29.42	-10	38	37	-1	WNW	2	0	4	c, c	46	36	0.06
	Stornoway ...	29.68	42	W	3	bc	29.51	-06	37	37	-1	W	2	c	3	c, bc	46	35	0.08
	Wick ...	29.67	38	W	4	bc	29.45	-14	35	34	-6	NW	4	bc	2	bc	45	32	0.03
	Nairn ...	29.74	40	SW	3	bc	29.52	-16	35	35	-1	SW	1	c	1	bc	47	34	0.49
	Aberdeen ...	29.80	42	NSW	3	b	29.47	-28	37	36	-6	NW	8	cqu	4	bq, r	49	36	0.12
	Leith ...	29.87	42	NSW	3	c	29.57	-32	41	38	-4	W	3	0	4	c	49	38	0.05
	Shields ...	29.95	46	SW	3	b	29.60	-39	40	38	-4	W	6	cp	2	bc, r	50	38	0.28
	Spurn Head ...	30.03	43	NSW	4	b	29.61	-48	42	40	+2	W	7	bc	5	b	47	39	-
	York ...	30.09	46	NSW	2	b	29.68	-41	42	39	-3	W	4	c	4	b	51	40	0.04
	Loughborough	30.16	45	NSW	2	b	29.83	-34	42	38	-2	W	4	b	4	b	53	40	0.04
GERMANY & HOLLAND.	Ardrossan ...	29.88	46	NSW	4	c	29.67	-26	40	39	-4	NSW	3	c	3	c	47	38	0.20
	Malin Head ...	29.87	44	SSW	4	OT	29.69	-19	40	37	-4	W	5	bcq, r	4	p, r, l	46	38	0.24
	Mullaghmore ...	29.82	46	SW	6	og, r	29.83	-16	37	37	-8	W	5	og, hrq	5	p, hrq, l	49	36	0.27
	Belmullet ...	29.80	47	SW	5	b	29.75	-24	40	38	-3	SW	7	bc	5	bc	50	40	0.20
	Donaghadee ...	29.95	46	SW	5	bc	29.75	-24	40	38	-3	SW	7	bc	5	bc	50	40	0.20
	Liverpool (Bidston)	30.10	46	SSW	2	0	29.80	-35	41	39	-5	W	7	bq	5	c, om	49	42	0.01
	Holyhead ...	30.08	47	SW	4	om	29.85	-29	42	40	-2	SW	1	bc	4	c, og, r	53	37	0.07
	Parsonstown ...	30.00	48	SW	1	0	29.93	-20	39	37	-6	NSW	6	c	6	bc, og, l	54	42	0.01
	Valencia ...	30.05	51	SSW	6	og	30.03	-20	45	42	-5	NSW	6	c	6	p, bc, l	52	39	0.15
	Roche's Point	30.12	50	NSW	4	bc	30.03	-21	40	39	-5	W	8	bc	3	p, bc, l	52	39	0.15
FRANCE AND BELGIUM.	Pembroke (St. Ann's Hd.)	30.19	47	SW	4	b	29.97	-26	45	43	-2	W	5	b	5	b, h	49	44	0.05
	Scilly ...	30.30	49	NSW	4	bc	30.06	-26	48	45	-1	W	5	0	5	om, bc, p	53	45	0.10
	Prawle Point ...	30.32	47	W	3	c	30.04	-28	43	43	-1	NSW	4	og	3	om, r	51	42	0.24
	Jersey (St. Aubin's)	30.37	48	W	3	bm	30.11	-24	47	45	0	SW	4	om	3	r, bm	53	45	0.09
	Hurst Castle ...	30.28	43	W	4	m	30.00	-28	43	43	-1	W	6	om	3	bc, m	51	42	0.10
	Dungeness ...	30.23	44	W	3	c	29.92	-29	43	42	-2	W	5	p	3	f, c	48	42	0.05
	North Foreland	30.21	46	W	2	b	29.87	-33	44	42	-1	W	4	g, r	3	bc, m	51	37	0.04
	London ...	30.23	45	SW	7	b	29.91	-33	44	42	-3	NSW	2	0	4	b, bc, op	53	42	0.01
	Oxford ...	30.20	43	W	1	b	29.92	-31	43	41	-2	W	1	0	4	b, r	52	43	0.02
	Cambridge ...	30.14	42	S	1	b	29.83	-36	44	41	-2	SW	3	0	4	b	55	38	0.05
PENINSULA.	Yarmouth ...	30.14	44	W	3	b	29.75	-39	43	41	+2	W	6	cq	3	b	50	39	-
	Cuxhaven ...	29.99	35	NSW	4	f	29.78	-40	35	34	+5	SW	4	f	4	f	36	30	0.10
	Berlin ...	30.00	37	NSW	3	f	29.90	-44	38	37	+16	NSW	4	0	4	r	37	22	0.08
	Wiesbaden ...	"	"	"	"	"	30.10	-33	36	35	+13	SW	2	0	4	"	37	23	0.04
	Munich ...	30.32	34	SW	4	0	30.17	-28	34	33	+15	SW	5	0	4	0	39	19	0.16
	The Helder ...	30.16	39	SW	4	b	29.77	-42	39	39	+2	SW	6	r	3	b	41	37	0.08
	Brussels (p.m.)	"	"	"	"	"	30.01	-33	39	38	+3	SW	5	0	4	f	39	36	0.12
	Cape Gris Nez	30.21	43	SSW	3	m	29.92	-32	43	43	+2	SW	6	m	5	m	45	39	0.08
	Paris ...	30.37	40	SSW	2	0	30.18	-26	36	36	+2	S	2	0	4	0	42	34	0.08
	Brest ...	"	49	NSW	2	m	"	"	49	48	-1	NSW	4	0	4	m	52	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 Wednesday, 8<sup>th</sup> February, 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:

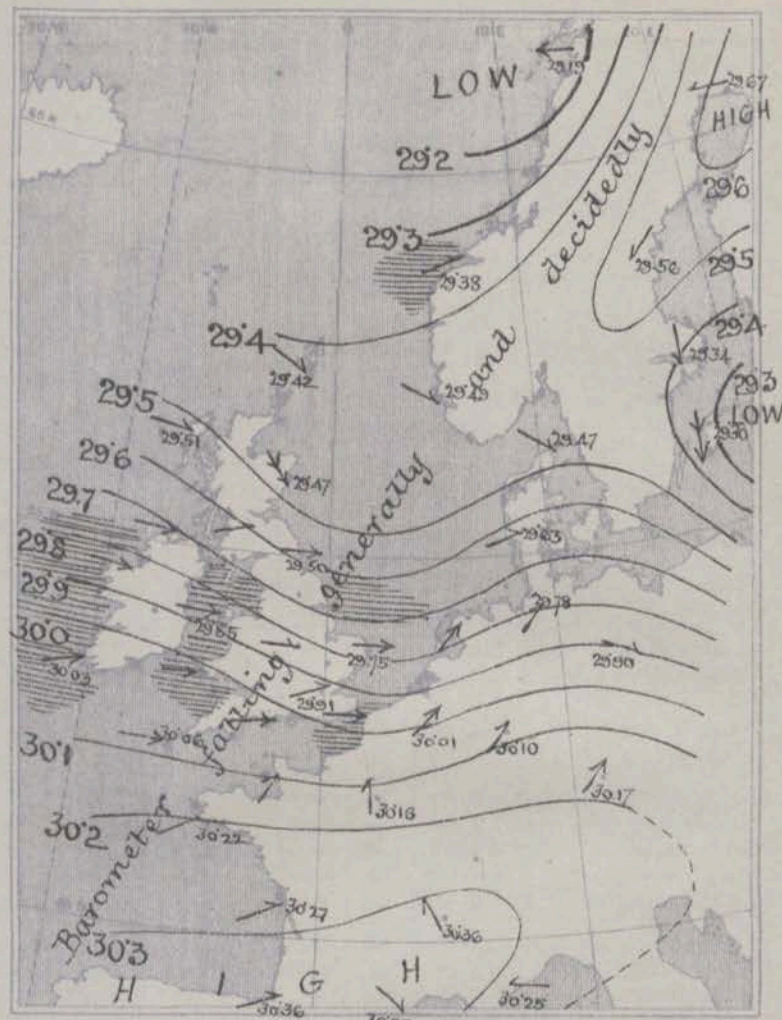
— Rough. — High.

## MEAN HEIGHT OF THE BAROMETER

at 8.0 a.m. for the month of February

During the 20 Years, 1871—1890.

STATIONS.	MEAN READINGS.
Sumburgh Head	29.775
Stornoway	29.773
Wick	29.804
Nairn	29.814
Aberdeen	29.815
Leith	29.820
Shields	29.800
Spurn Head	29.831
York	29.839
Loughborough	29.863
Androsan	29.878
Mullaglanore	29.884
Doughadale	29.884
Holyhead	29.911
Liverpool	29.924
Parsonstown	29.906
Valencia	29.912
Roche's Point	29.910
Pembroke	29.937
Selly	29.959
Prawle Point	29.983
Jersey	30.007
Hurst Castle	29.956
Dover	29.964
LONDON	29.949
Oxford	29.985
Cambridge	29.979
Yarmouth	29.964



## 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.

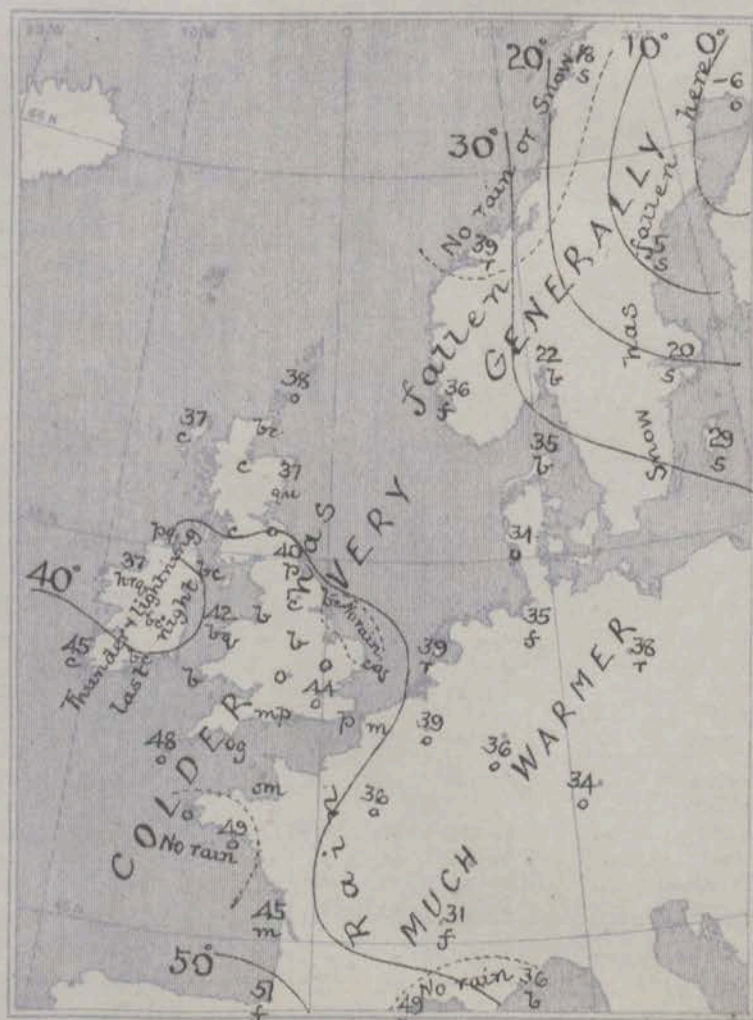
**RAINFALL**—A dotted line separates the districts in which rain has fallen from those where there has been none. Falls of 0.5 in. or more are quoted in figures.

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

(For the month of February.)

STATIONS.	TEMPERATURE				RAINFALL Inches
	Daily	Daily	at 8 a.m.		
	Max.	Min.	Dry.	Wet.	
Sumburgh Head.....	42.4	34.6	38.0	37.4	5.19
Stornoway .....	43.5	34.6	39.1	38.1	3.89
Wick.....	43.4	33.2	38.1	36.7	2.61
Nairn.....	43.4	33.4	37.1	35.4	1.49
Aberdeen .....	43.2	33.8	37.3	35.7	2.35
Leith.....	43.2	34.8	38.6	37.1	1.45
Shields.....	43.8	35.1	38.6	37.3	1.50
Spurn Head.....	42.3	35.0	38.4	37.0	1.36
York.....	44.6	36.0	37.5	36.4	1.79
Loughborough .....	45.3	33.9	37.6	36.1	1.75
Androsan.....	44.0	36.3	39.4	38.2	3.04
Mullaghtmore .....	46.6	38.6	42.0	40.3	3.09
Doughadale.....	45.5	38.9	40.3	39.3	2.42
Holyhead.....	45.3	38.7	41.5	40.1	2.60
Liverpool.....	44.5	36.2	38.9	37.3	1.62
Parsonstown.....	46.3	37.6	39.4	38.1	2.20
Valencia.....	49.7	40.7	44.5	42.9	1.95
Roche's Point.....	48.4	39.6	43.1	41.6	4.48
Pembroke.....	48.5	39.4	42.1	40.9	2.82
Selly.....	48.0	42.8	46.0	44.4	2.71
Prawle Point.....	46.8	38.1	41.5	40.6	2.62
Jersey.....	46.0	39.3	42.3	41.0	2.65
Hurst Castle.....	43.7	36.7	40.3	39.3	2.25
Dover.....	44.4	36.4	39.2	38.1	1.96
LONDON.....	45.8	35.1	38.0	37.4	1.73
Oxford.....	45.0	34.9	37.9	36.8	1.98
Cambridge.....	45.3	32.8	37.3	36.2	1.46
Yarmouth.....	49.6	34.5	38.2	37.3	1.82

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 30.0 in: over the Peninsula, France, the greater part of the English Channel and South Germany.

Lowest, 29.3 in: and less, over the Baltic and Baltic Provinces, 29.5 in: and less, over the northern half of the North Sea.

Barometric gradients somewhat steep over our Islands and Germany, slight over Spain, France, and the southern half of Scandinavia.

Barometer falling in most places, but very irregularly.

## TEMPERATURE

Highest, 51° at Berritz, 49° at Lisbon, Perpignan, and Lorient, 48° at Scilly, and 45° at Valencia (Ireland).

Lowest, -6° F. at Haparanda, +5° at Kermösand, 20° at Stockholm; it is as low as 36° at Nice.

The maximum readings yesterday exceeded 50° over Ireland and England, but a decided fall has taken place in the night.

## WIND

E<sup>ly</sup> over Lapland, and blowing hard at Rode;

W<sup>ly</sup> (SW to NW) elsewhere, and blowing hard at several of our northernmost and northeastern stations, but only a moderate breeze in the Channel. A fresh gale from N. is reported at Visey.

Gales of considerable strength have been felt at some of our western and northern stations during the night.

## WEATHER

Cloudy and very changeable generally with showers in some places, and sharp squalls in the northeast and northwest.

Showers have fallen almost everywhere (heaviest 0.5 in: at Nainn).

Lightning was seen last night at all the Irish stations, and thunder occurred at Rock Point.

## SEA

Rough on our western coast and at C. Frisley, moderate or slight elsewhere.

## PROBABLE CHANGES IN SYSTEM NOW PREVALENT

The general appearance is very unsettled; some new disturbance is apparently advancing towards Ireland from the westward.

# FORECASTS

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

DISTRICTS.		FORECASTS.	DISTRICTS.		FORECASTS.	
0	SCOTLAND NORTH	NW <sup>ly</sup> and W <sup>ly</sup> winds, varying greatly in strength; showers of sleet or cold rain.	6	SCOTLAND WEST	W <sup>ly</sup> and NW <sup>ly</sup> winds, strong, a gale in places; squally, showery.	
1	SCOTLAND EAST		7	ENGLAND N.W.		
2	ENGLAND N.E.		8	ENGLAND S.W.		
3	ENGLAND EAST	Same as N° 5.		9		IRELAND NORTH
4	MIDLAND COUNTIES			10		IRELAND SOUTH
5	ENGLAND SOUTH	W <sup>ly</sup> and NW <sup>ly</sup> winds, strong; unsettled, cold showers.	WARNINGS			
At 4.40 pm yesterday to districts 0.1.6.*7 "Hoist South Cone". The signals are still flying in districts 9 and 10.						

At 4.40 pm yesterday to districts 0.1.6.\*7 Hoist South Cone. The signals are still flying in districts 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 ...	29.61	43	42	W&W	2	om	4	Valencia ...	30.18	53	51	SSW	5	bcm	6
Sumburgh Head ...	29.45	44	42	W	4	o	5	Scilly ...	30.34	53	51	SW	4	om	6
Stornoway ...	29.68	45	44	W	4	c	4	Jersey ...	30.38	53	50	WNW	3	b	3
Aberdeen ...	29.79	48	42	W&W	6	bq	4	Hurst Castle ...	30.30	48	47	W&W	4	bcm	2
Shields ...	29.98	50	45	WSW	6	bc	3	Dungeness ...	30.23	47	46	W&W	2	c	2
Ardrossan ...	29.95	46	44	WSW	4	c	3	North Foreland ...	30.22	50	48	W	2	b	2
Malin Head ...	29.92	46	44	WSW	5	b	3	London (Westminster) ...	30.24	54	49	WSW	3	bc	*
Mullaghmore ...	30.01	49	46	SW	4	om	4	Yarmouth ...	30.14	50	46	W	4	b	3
Belmullet ...	30.01	46	44	SW	4	op	*	Rochefort ...	30.44	48	47	SSW	3	f	*
Holyhead ...	30.16	48	46	SW	4	c	4								

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

Weather fine over the greater part of the United Kingdom, but dull and rainy in the extreme southeast of England, as well as in the Channel Islands. Fine also in Germany, Spain, the south of France, and northern Italy, but cloudy in most other parts of the Continent, with rain in the west of Norway, and with snow at Hango and Kier. Fog reported over Holland, north Germany, and the central parts of France. Dull rainy weather setting in later over Ireland and spreading quickly to all other parts of our Islands. Thunder and lightning occurring at many of the Irish stations at night.

Temperature fallen quickly in the south of Russia, and slightly in Scandinavia, but risen elsewhere. Morning readings highest (1) 53° at Malta, 52° at Lisbon, and 50° at Barcelona, Langunau, and La Calle; (2) 50° at Valencia Island, Beirut, and Lorient, and 49° at Scilly. Lowest -28° F. at Archangel and Kharkov, -19° at Nicolaïff, and -17° at Moscow; below zero at most of the Russian stations, and below the freezing point over all the more central parts of the Continent. Rising during day to 50° or more at most of the English and Irish stations and reaching 55° at Cambridge. Exceeding 55° in the south of France and reaching 63° at Lisbon.

Wind SW<sup>1</sup> or W<sup>1</sup> over our Islands, the North Sea, Denmark, Germany, and the Netherlands, light or moderate in force generally, but strong in the north of Ireland. SE<sup>1</sup> in the west of Norway, with a gale at Skudesnaes. Light or moderate from the NW<sup>2</sup> or W<sup>2</sup> over the Baltic and Eastern Germany, but E<sup>1</sup> in Finland. N<sup>1</sup> in Italy, NE<sup>1</sup> in Spain and the west of France, S<sup>1</sup> or SE<sup>1</sup> in Algeria. Subsequently increasing to a fresh gale from the SW<sup>2</sup> or W<sup>2</sup> on several parts of our western and northern coasts.

Barometer highest 30.4 in to 30.6 in in an anticyclone lying over the greater part of Central and southern Europe. Lowest, 29.5 in and less, in a depression lying to the northward of our Islands; gradients rather steep on our eastern north and north-west coasts. Depression subsequently travelling away to the eastward, but new disturbance approaching Ireland at night, and spreading quickly in a northerly 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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# DAILY WEATHER REPORT

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

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

STATIONS.	YESTERDAY EVENING. (See note at bottom of last page.)						THIS MORNING. (See note at bottom of last page.)										PAST 24 HOURS.			
	BAROM.		TEMP.		WIND.		BAROMETER.		SHADE TEMP.		WIND.						SHADE TEMP.			
	Reading at 32° F. and Sea Level.	Dry Bulb.	Dirc.	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.
	Ina.	°					Ina.	°	°	°	°							°		Ina.
<b>SCANDINAVIA.</b>																				
Haparanda ...	29.74	-26	N	2	b		29.66	-0.01	-35	-35	-29	2	0	b	#		b	0	?	
Hernösand ...	29.67	2	NE	2	S		29.64	+0.08	-1	-1	-6	NE	2	S	#		S	14	-20	0.16
Stockholm ...	29.51	10	E	2	S		29.59	+2.5	6	6	-14	E	2	O	#		S	30	?	0.04
Wisby ...	29.44	22	NE	4	S		29.54	+2.4	19	18	-10	ESE	2	O	#		S	30	19	0.04
Bodö ...	29.30	14	E	8	S		29.33	+1.4	11	10	-7	E	6	S	3		S	?	?	
Christiansund...	29.34	39	W	4	O		29.19	-1.9	38	35	-1	ESE	4	O	4		O	39	?	0.24
Skudesnaes ...	29.47	36	Z	0	O		29.41	-0.8	39	37	+2	S	6	r	3		om, O	41	32	
Christiania Fjord (Færder)	29.41	26	N	2	m		29.49	+0.06	27	27	+5	SE	3	f	3		m	?	19	
Skagen (The Scaw)	29.43	31	NW	1	m		29.51	+0.4	30	29	-5	S	2	O	0		m	36	28	
Fanö ...	29.35	35	W	4	O		29.58	-0.5	35	34	+1	NW	2	b	#		U	36	32	0.04
<b>BRITISH ISLANDS.</b>																				
Sumburgh Head	29.38	40	W	3	C		29.26	-16	41	40	+3	W	2	bc	4		b, c	43	36	0.17
Stornoway ...	29.48	40	W	3	r		29.25	-26	44	44	+7	SW	4	r	4		bc, r	44	35	0.12
Wick ...	29.50	38	W	1	b		29.29	-16	40	39	+5	W	2	O	1		hp, b	42	34	0.03
Nairn ...	29.53	39	WSW	3	C		29.39	-13	42	40	+7	W	1	C	1		c	44	33	0.02
Aberdeen ...	29.58	37	WSW	2	b		29.44	-0.9	38	37	+1	SSW	3	om	3		b, p	43	36	
Leith ...	29.68	38	W	2	O		29.52	-0.5	45	43	+4	SW	3	C	#		O	47	37	
Shields ...	29.70	40	W	3	b		29.63	+0.3	44	42	+4	SW	2	O	2		bc, b	46	35	
Spurn Head ...	29.73	40	WNW	5	b		29.76	+1.5	39	38	-3	WSW	3	O	3		b	43	37	
York ...	29.79	41	WNW	2	b		29.72	+0.4	45	43	+3	W	2	O	#		b	46	38	
Loughborough	29.85	39	WNW	4	b		29.84	+0.1	42	40	0	WSW	5	Cq	#		b, p	48	37	0.02
Ardrrossan ...	29.70	42	WSW	4	Oq, p		29.55	-12	45	45	+5	WSW	4	r	4		Oq, p	47	38	0.07
Malin Head ...	29.74	42	W	6	O, r, q		29.49	-20	46	45	+6	SW	5	OT	4		O, r, q	46	39	0.11
Mullaghmore ...	29.84	45	W	5	om		29.62	-21	47	46	+10	WSW	5	OT, q	4		Cq, p, m	47	36	0.20
Belmullet ...	29.90	44	W	4	C		29.62		48	47		SW	6	OT, U	#		bc, q, p	48	40	0.29
Donaghadee ...	29.84	40	W	6	b		29.66	-12	45	44	+5	W	5	O	3		b	45	39	0.02
Liverpool (Bidston)	29.86	40	W	4	b		29.79	-0.1	45	43	+4	WSW	5	r	3		b	45	40	
Holyhead ...	29.90	42	WNW	4	C		29.80	-0.5	45	44	+3	WSW	4	Oq	4		bc, c	46	42	0.01
Parsonstown ...	29.95	41	SW	1	O		29.79	-14	45	44	+6	SW	2	r	#		C, O	46	36	0.14
Valencia ...	30.08	48	SW	6	Oq		29.91	-12	48	48	+3	SW	6	q, r, m	6		b, q, p, h	48	44	0.08
Roche's Point	30.04	45	WNW	3	bc		29.93	-10	47	47	+7	W	4	r, m	4		bc	47	40	0.01
Pembroke (St. Ann's Hd.)	29.98	44	W	5	bc		29.92	-0.5	47	46	+2	WSW	5	op	5		bc	49	44	0.02
Scilly ...	30.10	47	WNW	6	C		30.08	+0.02	49	48	+1	W	6	C	4		C	49	43	0.04
Prawle Point ...	30.05	42	W	4	bc		30.06	+0.02	45	45	+2	WSW	3	p	2		bc, p	49	39	0.04
Jersey (St. Aubin's)	30.06	47	WNW	3	bc, m		30.12	+0.1	46	44	-1	W	3	om	3		r, s, o	48	39	0.49
Hurst Castle ...	29.99	38	WNW	5	b		30.01	+0.1	42	41	-1	WNW	5	C	3		p, b	48	38	0.03
Dungeness ...	29.88	42	W	3	bc		29.96	+0.4	40	39	-3	W	3	bc	2		C, bc	46	34	
North Foreland	29.84	42	W	2	b		29.90	+0.3	38	37	-6	W	2	C, U	3		O, b	45	34	
London ...	29.89	41	W	2	b		29.95	+0.4	37	36	-7	SSW	2	C	#		bc, b, m	48	34	
Oxford ...	29.95	36	W	1	b		29.92	0.0	40	39	-3	SW	3	C	#		b	49	36	
Cambridge ...	29.87	40	W	2	bc		29.88	+0.5	38	37	-6	SW	2	C	#		C	50	33	
Yarmouth ...	29.76	43	WNW	5	bc, q		29.84	+0.9	38	37	-5	W	3	bc	3		Cq, bc, q	45	33	
<b>GERMANY &amp; HOLLAND.</b>																				
Cuxhaven ...	29.42	35	W	5	r		29.72	-0.6	36	35	+1	WNW	3	C	#		r	37	35	0.28
Berlin ...	29.53	37	W	3	r		29.55	-35	35	35	-3	WNW	4	r	#		r	39	34	0.20
Wiesbaden ...	*	*	*	*	*		29.95	-15	38	36	+2	SW	2	O	#		#	43	36	0.04
Munich ...	29.91	38	SW	4	O		29.95	-22	33	33	-1	NW	6	C	#		O	43	30	0.12
The Helder ...	29.71	40	W	7	b		29.84	+0.7	39	37	0	W	4	C	3		b	41	37	
<b>FRANCE AND BELGIUM.</b>																				
Brussels (9 a.m.)	*	*	*	*	*		30.00	-0.1	33	32	-6	WSW	2	bc	#		*	41	32	0.04
Cape Gris Nez	29.89	42	W	6	bc		29.94	+0.2	40	39	-3	W	5	bc	5		bc	45	37	0.08
Paris ...	30.00	41	SW	2	O		30.12	-0.6	34	33	-2	SSW	2	O	#		O	44	33	0.04
Brest ...	?	47	NW	4	C		?	?	49	46	0	NW	3	O	4		C	49	45	0.12
Lorient ...	30.16	47	NW	6	bc		30.21	-0.1	47	45	-2	WNW	5	C	4		bc	49	45	0.12
Rocheport ...	30.16	45	NW	5	O		30.23	-0.4	44	44	-1	W	3	C	#		O	50	43	0.16
Belfort ...	?	41	W	3	O		?	?	36	33		W	3	S	#		O	42	32	0.08
Lyons ...	30.15	40	NE	1	O		30.21	-15	35	34	+4	NW	1	r	#		O	41	31	0.12
Nice ...	30.05	43	Z	0	bc		29.79	-46	49	?	+13	NW	3	b	3		bc	52	36	
Perpignan ...	30.17	60	NW	3	C		30.25	-12	45	42	-4	NW	3	O	#		C	65	43	
Biarritz ...	30.30	50	WNW	6	r		30.32	-0.4	51	50	0	WNW	6	r	5		r	55	45	0.32
<b>PENIN-SULA.</b>																				
Corunna ...	*	*	*	*	*		*	*	*	*	*	*	*	*	*		*	*	*	*
Lisbon ...	30.46	53	N	5	b		30.44	-0.6	53	51	+4	WNW	5	b	#		b	61	49	

For Explanation of Columns, see bottom of last page.

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

# WEATHER CHARTS

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

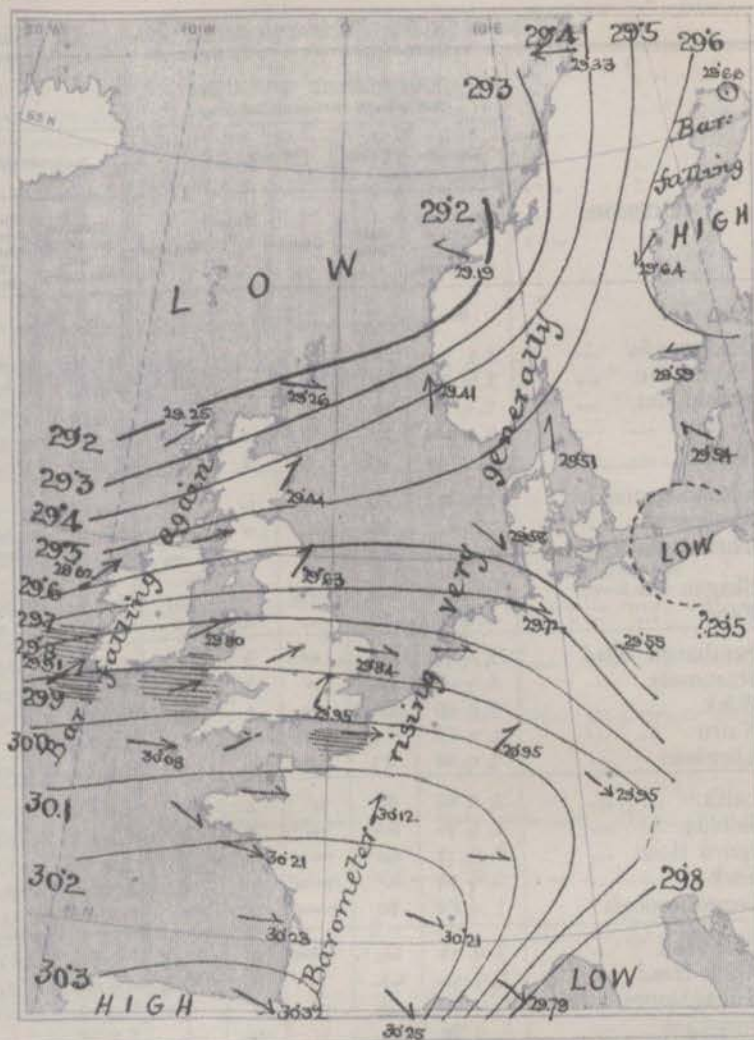
**SEA DISTURBANCE**—Where considerable, is shown thus—

— Rough — High

## MEAN HEIGHT OF THE BAROMETER

at 8.0 a.m. for the month of February  
During the 29 Years, 1871—1900.

STATIONS.	MEAN READINGS
Sumburgh Head	29.775
Stornoway	29.773
Wick	29.831
Nairn	29.811
Aberdeen	29.818
Leith	29.870
Shields	29.906
Spurn Head	29.934
York	29.930
Loughborough	29.961
Ardrossan	29.871
Mullaghmore	29.851
Donaghadee	29.881
Holyhead	29.914
Liverpool	29.934
Parsinstown	29.905
Valencia	29.919
Roche's Point	29.916
Pembroke	29.937
Sally	29.930
Prawle Point	29.991
Jersey	29.907
Hurst Castle	29.986
Dover	29.995
LONDON	29.999
Oxford	29.985
Cambridge	29.979
Yarmouth	29.961



## 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.

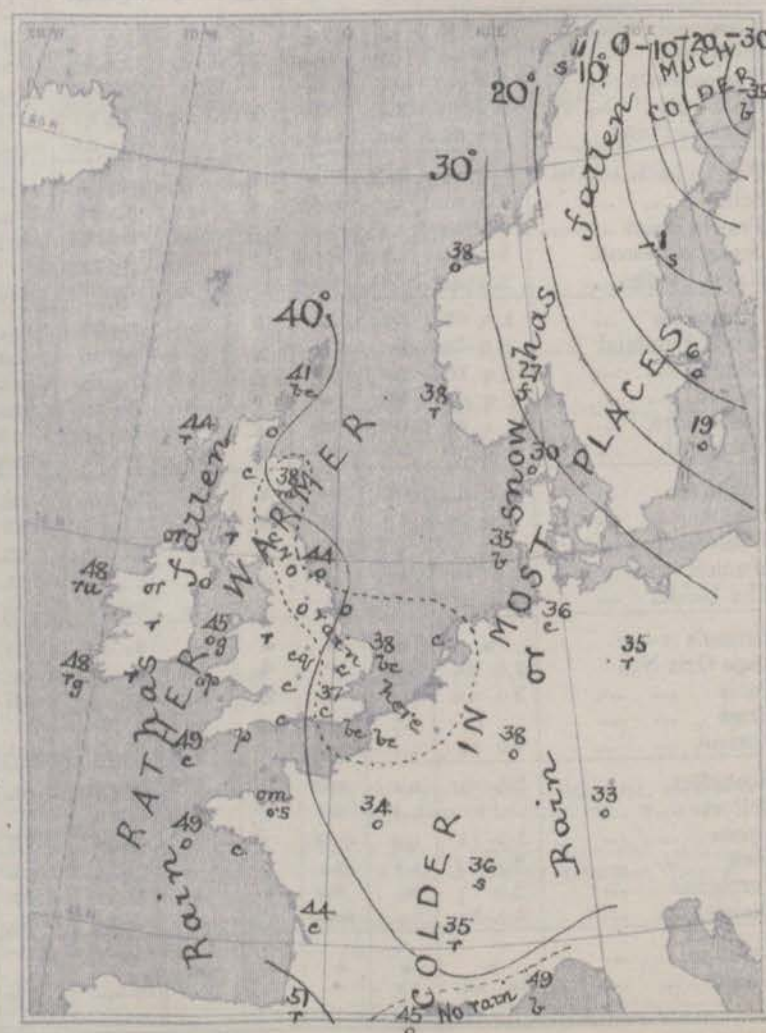
**RAINFALL**—A dotted line separates the districts in which rain has fallen from those where there has been none. Falls of 0.5 in. or more are quoted in figures.

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

(For the month of February.)

STATIONS.	TEMPERATURE				RAINFALL
	Day	Night	at 8 a.m.	at 4 p.m.	
Sumburgh Head	42.4	31.5	38.5	37.4	3.19
Stornoway	42.6	31.6	38.1	38.1	3.86
Wick	42.2	30.2	38.1	36.7	2.01
Nairn	42.4	31.4	37.1	35.4	1.18
Aberdeen	43.2	31.8	37.3	35.7	2.35
Leith	45.7	34.3	38.6	37.1	1.43
Shields	45.5	35.1	38.6	37.3	1.60
Spurn Head	42.3	35.0	38.4	37.0	1.50
York	41.6	33.9	37.3	36.4	1.70
Loughborough	45.3	33.0	37.5	36.1	1.77
Ardrossan	41.5	32.2	36.1	35.2	3.91
Mullaghmore	40.6	33.0	37.0	36.3	3.30
Donaghadee	43.3	35.9	38.3	36.3	2.42
Holyhead	43.5	38.7	41.5	40.1	2.50
Liverpool	41.5	36.2	38.9	37.5	1.69
Parsinstown	46.9	35.6	39.4	38.1	2.20
Valencia	40.7	34.7	37.6	36.9	1.95
Roche's Point	38.4	30.5	33.1	31.6	4.40
Pembroke	43.2	32.1	37.1	36.9	2.82
Sally	48.9	42.8	40.0	41.4	2.11
Prawle Point	40.8	38.1	41.4	40.5	2.02
Jersey	40.9	39.3	42.3	41.0	2.55
Hurst Castle	43.7	40.1	40.7	39.3	2.25
Dover	41.1	36.1	39.2	38.1	1.86
LONDON	45.5	34.6	37.9	37.1	1.73
Oxford	45.0	34.6	37.9	36.8	1.52
Cambridge	45.3	32.5	37.3	36.2	1.46
Yarmouth	43.6	34.5	38.2	37.3	1.89

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



# GENERAL SITUATION AT 8 A.M.

## PRESSURE

Highest, 30.3 in. and more to 30.0 in. over Spain, the Bay of Biscay, France, and the southwest of England.

Lowest, 29.2 in. and less, in the extreme west of Norway and to the northward of the Shetlands.

Gradient rather steep in the northwest, moderate to slight elsewhere.

Barometer falling over our Islands, most in the northwest.

## TEMPERATURE

Highest, 53° at Lisbon, 51° at Biarritz, 49° at Brest, 48° at Valencia (Ireland); above 40° at most of our own stations.

Lowest, -35° F. at Stabaranda, -1° at Helsingfors, +6° at Stockholm, and much below the freezing point over Sweden generally, 31° in London, 38° at Cambridge & Harlow.

It has risen in the west during the night, and the rise is spreading eastwards.

## WIND

W<sup>1</sup> to SW<sup>1</sup> over our Islands generally - light at the eastern stations, fresh to strong, and increasing, in the west.

S<sup>1</sup> to E<sup>1</sup>, and strong in Norway; E<sup>1</sup>, very light over Sweden.

## WEATHER

Cloudy, or overcast at almost all stations, with rain on the Irish coasts and the west of Scotland, sleet and rain in the southeast of France and the west of Norway.

Rain has fallen again except at our eastern and northeastern stations, but the amounts reported are again small.

## SEA

Rough again off the west of Ireland and southwest of England, moderate in the northwest and north, slight elsewhere.

## PROBABLE CHANGES IN SYSTEM NOW PREVALENT

The new disturbance seems likely to cause SW<sup>1</sup> to W<sup>1</sup> gales in the north and west; strong breezes elsewhere, and rain generally.

## FORECASTS

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

### DISTRICTS.

### FORECASTS.

0	SCOTLAND NORTH	SW <sup>1</sup> winds, moderate to strong; dull, squally, rainy.
1	SCOTLAND EAST	SW <sup>1</sup> winds, freshening, dull, some rain.
2	ENGLAND N.E.	
3	ENGLAND EAST	W <sup>1</sup> and SW <sup>1</sup> winds, light to fresh; fair to dull and rainy.
4	MIDLAND COUNTIES	
5	ENGLAND SOUTH	

### DISTRICTS.

### FORECASTS.

6	SCOTLAND WEST	SW <sup>1</sup> winds, strong; dull, some rain.
7	ENGLAND N.W.	
8	ENGLAND S.W.	W <sup>1</sup> and SW <sup>1</sup> winds, fresh to strong; dull, some rain.
9	IRELAND NORTH	SW <sup>1</sup> strong winds and gales; dull, squally, rainy.
10	IRELAND SOUTH	
WARNINGS		At 10.30 am to districts 9 and 10. "Hoist South Cone".

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

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

# YESTERDAY'S 2 P.M. REPORTS.

	BAR.	THER.		WIND. Direc.	P.	WEA.	SEA.		BAR.	THER.		WIND. Direc.	P.	WEA.	SEA.
		Dry.	Wet.							Dry.	Wet.				
Skudesnaes ...	29.41	41	87	W	1	cm	3	Valencia ...	30.06	45	45	W	6	bqhp	6
Sumburgh Head ...	29.40	42	40	W	2	b	4	Scilly ...	30.08	45	43	W	5	cp	4
Stornoway ...	29.52	44	42	W	4	bc	4	Jersey ...	30.07	42	41	W	3	ogrsp	3
Aberdeen ...	29.56	43	38	W	6	bq	4	Hurst Castle ...	29.97	47	45	W	4	bc	3
Shields ...	29.86	43	40	W	5	bc	2	Dungeness ...	29.88	44	43	W	4	c	3
Ardrossan ...	29.71	45	44	W	4	c	4	North Foreland ...	29.83	45	43	W	2	b	2
Malin Head ...	29.74	44	40	W	5	bc	4	London (Westminster)	29.89	45	43	W	2	bc	3
Mullaghmore ...	29.84	45	42	W	6	cq	5	Yarmouth ...	29.74	45	41	W	5	cq	3
Belmullet ...	29.88	45	42	W	5	bcq	5	Rochefort ...	30.21	49	47	W	4	o	3
Holyhead ...	29.58	43	41	W	5	bc	5								

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

Weather in morning though fine at time of observation in many localities becoming very changeable and unsettled over all the northern and northwestern countries of Europe, but continuing fair in the south and southwest, fine and bright on the southern and western shore of the Mediterranean. Rain and hail showers reported at several of our own stations and in the west of Norway, snow in Timmark, Sweden and the Baltic Provinces, Rain at times during day, except over the northwestern and eastern parts of England. Hail at Wick, Orkney and Kilevea Island.

Temperature fallen in the north and northwest, risen decidedly over Central Europe, very rapidly over the south of Russia where the rise varied from 21° to 42°. Morning readings exceeding 50° at Algiers, and on the north coast of Spain, exceeding 40° over our Islands generally, and exceeding 32° over Central Europe. Lowest -32° to 0° Zero over the north of Russia and Finland; +4° at Hermannstadt, 14° at Budapest, and still much below the freezing point over southeastern Europe generally. Not touching 50° at any of our own stations (excepting Cambridge) during day, but reaching 52° at Nice, 55° at Biarritz, and more to 60° at Perpignan and Lisbon.

Wind W<sup>1</sup> fresh to a gale over Ireland and England, NW<sup>1</sup> in Scotland, SW<sup>1</sup> in the Netherlands; W<sup>1</sup> over Germany, N<sup>1</sup> in the southeast of Sweden, NE<sup>1</sup> to E<sup>1</sup> over Finland and Lapland. Very light and variable over southern Europe and the Mediterranean. Moderating considerably on our own coast later.

Barometer highest 30.5 ins: and more to 30.0 ins: over all the southern and western countries of Europe, including the southwestern part of the British Islands. Lowest 29.2 ins: and less, in a depression off the northwest of Norway, 29.3 ins: and less, in another over the Baltic and Gulf of Riga, and below 29.5 ins: in a "secondary" off the east of Scotland. Changing little and irregularly over our Islands 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.

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

" Weekly " " " £1 10 0 "

# DAILY WEATHER REPORT

for 8 a.m. on Friday, 10<sup>th</sup> February, 1893  
 Issued by the Meteorological Office, 63, Victoria Street, London. R. H. SCOTT, Secretary.

Issued by the Meteorological Office, 63, Victoria Street, London. R. H. SCOTT, Secretary.																			
STATIONS.		YESTERDAY EVENING. (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 52° F. and Sea Level.	Dry Bulb.	Dir.	Force (0 to 12).	Reading at 52° F. and Sea Level.	Change since Yester- day Morn.	Dry Bulb.	Wet Bulb.	Change in dry since Yesterday.	Dir.	Force (0 to 12).	Weather.	Max.	Min.						
Inch.	°			Inch.	°	°	°	°				°	ins.						
SCANDINAVIA.	Haparanda ...	29.57	-31	Z	0	c	29.58	-08	-37	-37	-2	N	2	0	†	6	-17	-37	-
	Hernösand ...	29.45	-2	H	2	S	29.39	-25	-6	-7	-5	N	4	c	†	5	-3	-6	0.08
	Stockholm ...	29.41	23	Z	0	0	29.09	-50	17	16	+11	NE	4	S	†	0	27	3	0.12
	Wisby ...	29.47	27	SSW	4	0	29.12	-42	38	32	+14	SSW	6	S	†	0	?	16	0.04
	Bodö ...	29.32	11	E	6	b	29.46	+13	2	1	-9	ESE	4	b	2	7	11	-2	-
	Christiansund...	29.07	37	ESE	4	bc	28.90	-29	30	28	-8	E	7	bc	4	bc	41	30	-
	Skudesnaes ...	29.05	39	S	6	†	28.72	-69	37	37	-1	SSE	1	†	5	0.1	41	36	-
	Christiana Fjord (Fjord)	29.22	35	SW	5	0	28.82	-67	32	32	+5	SSE	5	S	3	0	35	27	-
	Skagen (The Scaw)	29.19	35	SSW	3	m	28.81	-70	33	35	+3	SSW	4	†	2	m	36	30	0.12
	Fanö ...	29.11	34	SSW	4	†	28.84	-74	36	35	+1	W	4	c	†	†	36	32	0.12
BRITISH ISLANDS.	Sumburgh Head	28.75	43	S	3	†	28.67	-59	39	38	-2	Z	0	bc	3	†	44	33	0.53
	Stornoway ...	28.78	43	m	5	c	28.87	-38	43	43	-1	W	4	†	4	†	48	34	0.25
	Wick ...	28.83	42	S	2	0	28.74	-55	37	36	-3	NW	4	oprs	3	ou, l	44	34	0.12
	Nairn ...	28.85	40	W	3	0	28.83	-56	38	37	-4	N	2	op	1	op	49	35	0.25
	Aberdeen ...	28.91	46	SW	6	o q p u	28.78	-66	35	33	-3	WNW	3	b	3	or, p q l	47	34	0.03
	Leith ...	29.01	43	SW	5	†	28.80	-72	40	39	-5	WNW	3	†	†	†	49	37	0.33
	Shields ...	29.21	46	SW	4	c	28.78	-85	44	42	0	WSW	6	c	2	o q, p, r	49	36	0.10
	Spurn Head ...	29.37	44	SSW	5	ov	29.00	-76	41	40	+2	SW	5	o q p	3	o q, p	46	38	0.04
	York ...	29.36	46	W	3	m	28.98	-74	46	44	+1	W	6	†	†	†	47	40	0.05
	Loughborough	29.52	45	SW	5	†	29.16	-68	42	40	0	WSW	6	c q p	†	†	47	40	0.20
GERMANY & HOLLAND.	Ardrossan ...	29.06	44	WSW	5	0	28.94	-61	46	45	+1	WNW	4	†	6	r, l l	47	39	0.67
	Malin Head ...	29.05	45	WSW	7	b c h p	29.08	-41	46	44	0	NW	8	c q d p	6	o, h p	48	42	0.21
	Mullaghmore ...	29.25	47	WSW	7	c	29.37	-25	48	45	+1	W	8	c q q	8	r, c, h p	49	39	0.30
	Belmullet ...	29.31	45	WSW	8	c a p p	29.56	-06	49	45	+1	WNW	7	bc	†	o q m, q p	49	34	0.74
	Donaghadee ...	29.19	48	WSW	7	†	29.12	-54	48	46	+3	W	8	o q	6	†	49	44	0.24
	Liverpool (Bldston)	29.37	44	WSW	6	†	29.10	-69	46	45	+1	WSW	8	†	5	†	47	41	0.29
	Holyhead ...	29.39	46	SW	5	g m r	29.24	-56	47	45	+2	WNW	8	c q m	6	p q m	48	41	0.28
	Parsonstown ...	29.42	46	SW	2	bc	29.53	-26	48	44	+3	SW	1	0	†	o q, h	48	38	0.40
	Valencia ...	29.61	47	WSW	8	0 U	29.83	-08	49	45	+1	W	8	om	7	am, u	51	47	0.14
	Roche's Point	29.61	46	W	5	† m	29.70	-23	47	45	0	NW	5	bc	4	† m, l p	49	42	0.15
FRANCE AND BELGIUM.	Pembroke (St. Ann's Hd.)	29.53	47	WSW	7	0	29.44	-43	47	45	0	W	8	b c q	8	o q	48	36	0.22
	Scilly ...	29.81	50	WSW	7	op	29.79	-29	49	47	0	WNW	8	c	6	op	50	46	0.03
	Prawle Point ...	29.76	46	WSW	7	0	29.65	-41	46	43	0	W	8	bc	7	op	48	40	0.22
	Jersey (St. Aubin's)	29.95	47	WSW	4	op q	29.75	-37	48	43	+2	W	6	c m p u	5	o q, p	50	45	0.13
	Hurst Castle ...	29.74	45	WSW	7	or m	29.51	-50	45	42	+3	WNW	8	c q	5	or m	46	41	0.21
	Dungeness ...	29.73	45	WSW	6	o q	29.36	-60	43	41	+3	W	6	c	5	o q	46	39	0.14
	North Foreland	29.66	45	WSW	5	o q	29.29	-61	43	41	+5	W	5	c q u	4	o q	47	38	0.09
	London ...	29.66	45	SW	3	or	29.35	-60	44	41	+7	W	7	c q p	†	o, r, q p	50	37	0.16
	Oxford ...	29.51	46	SW	6	†	29.35	-57	43	40	+3	WSW	6	† u	†	or q	48	40	0.12
	Cambridge ...	29.57	45	S	4	†	29.24	-64	43	41	+5	SW	5	c	†	†	47	37	0.17
PENINSULA.	Yarmouth ...	29.36	45	SW	5	c q p	29.16	-68	42	40	+4	W	7	c q q	4	c, q p	46	36	0.15
	Cuxhaven ...	29.56	45	SW	4	†	29.05	-67	37	36	+1	WSW	6	bc	†	†	39	36	0.40
	Berlin ...	29.77	35	SW	3	†	29.18	-37	34	33	-1	SW	4	S	†	†	37	34	0.04
	Wiesbaden ...	30.04	31	SW	6	†	29.41	-54	35	35	-3	SW	4	bc	†	†	41	34	0.28
	Munich ...	30.04	31	SW	6	†	29.60	-35	36	35	+3	SW	7	0	†	†	37	28	0.08
	The Helder ...	29.52	40	SW	7	†	29.16	-68	40	38	+1	WSW	7	bc	4	†	41	37	0.43
	Brussels (9 a.m.)	30.01	44	WSW	6	†	29.39	-61	41	37	+8	WSW	5	bc	†	†	44	33	0.47
	Cape Gris Nez	29.75	44	WSW	6	†	29.39	-55	42	40	+2	W	7	0	7	†	45	37	0.14
	Paris ...	30.01	44	SW	3	0	29.67	-45	46	42	+12	W	5	b	†	0	46	34	0.12
	Brest ...	30.08	48	WSW	5	0	29.89	-32	50	46	+3	WNW	7	0	4	0	50	45	0.04
GERMANY & HOLLAND.	Lorient ...	30.08	48	WSW	5	0	29.89	-32	50	46	+3	WNW	7	0	4	0	50	45	0.04
	Rochefort ...	30.19	47	WNW	4	0	30.01	-22	49	48	+5	NW	6	0	†	c, o	52	37	0.08
	Belfort ...	30.16	38	W	2	0	30.01	-20	37	34	+2	W	7	†	†	0	42	32	0.08
	Lyons ...	30.16	38	W	2	0	30.01	-20	37	34	+2	W	7	†	†	0	42	32	0.08
	Nice ...	29.96	46	E	2	6	29.97	+18	42	33	-7	NE	2	c	2	†	55	37	-
	Perpignan ...	30.28	47	NW	3	c	30.07	-18	50	43	+5	NW	4	0	†	†	53	45	-
	Biarritz ...	30.34	51	NW	5	†	30.24	-08	61	47	0	WSW	5	0	4	†	52	41	0.04
	Corunna ...	30.41	51	†	†	†	30.44	00	51	48	-2	NNE	4	b	†	†	61	48	-
	Lisbon ...	30.41	51	†	†	†	30.44	00	51	48	-2	NNE	4	b	†	†	61	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 Friday, 10<sup>th</sup> February, 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:

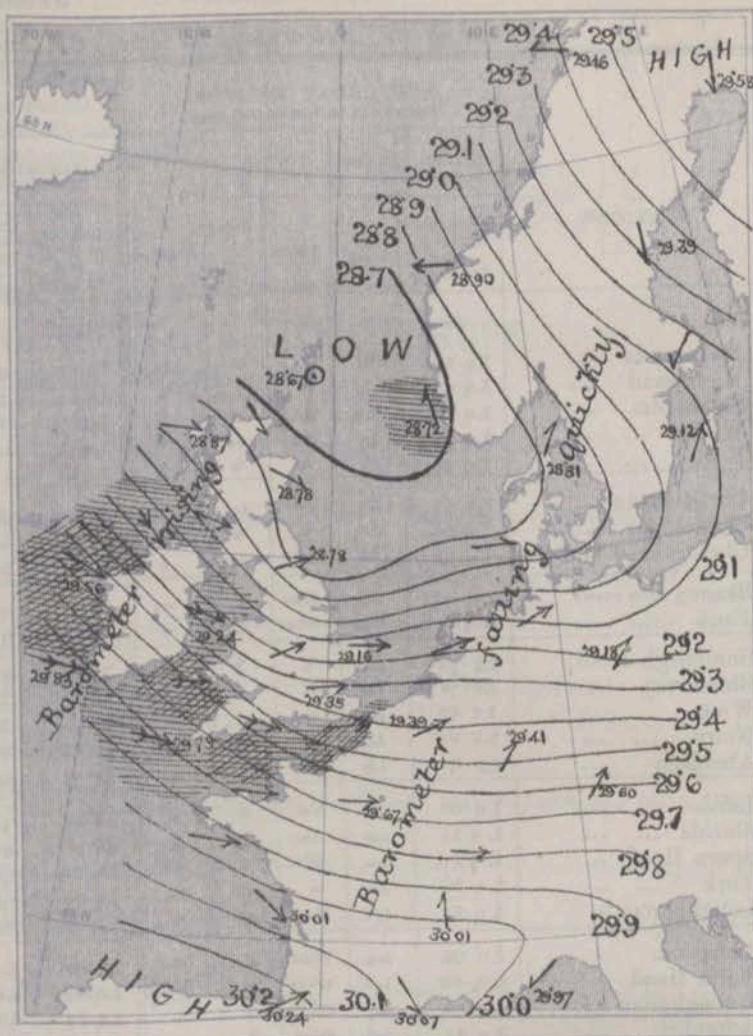
☼ = Rough, ☼ = High.

## MEAN HEIGHT OF THE BAROMETER

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

During the 20 Years: 1871—1890.

STATIONS.	MEAN READINGS.
Sumburgh Head	29.775
Stornoway	29.773
Wick	29.874
Nairn	29.814
Aberdeen	29.848
Leith	29.870
Shields	29.900
Spurn Head	29.994
York	29.939
Loughborough	29.903
Ardrossan	29.878
Mullaghmore	29.851
Donaghadee	29.884
Holyhead	29.914
Liverpool	29.934
Parsonstown	29.908
Valencia	29.919
Rocha's Point	29.916
Pembroke	29.937
Sally	29.930
Prawle Point	29.993
Jersey	30.007
Hurst Castle	29.996
Dover	29.983
LONDON	29.980
Oxford	29.983
Cambridge	29.979
Yarmouth	29.904



## 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.

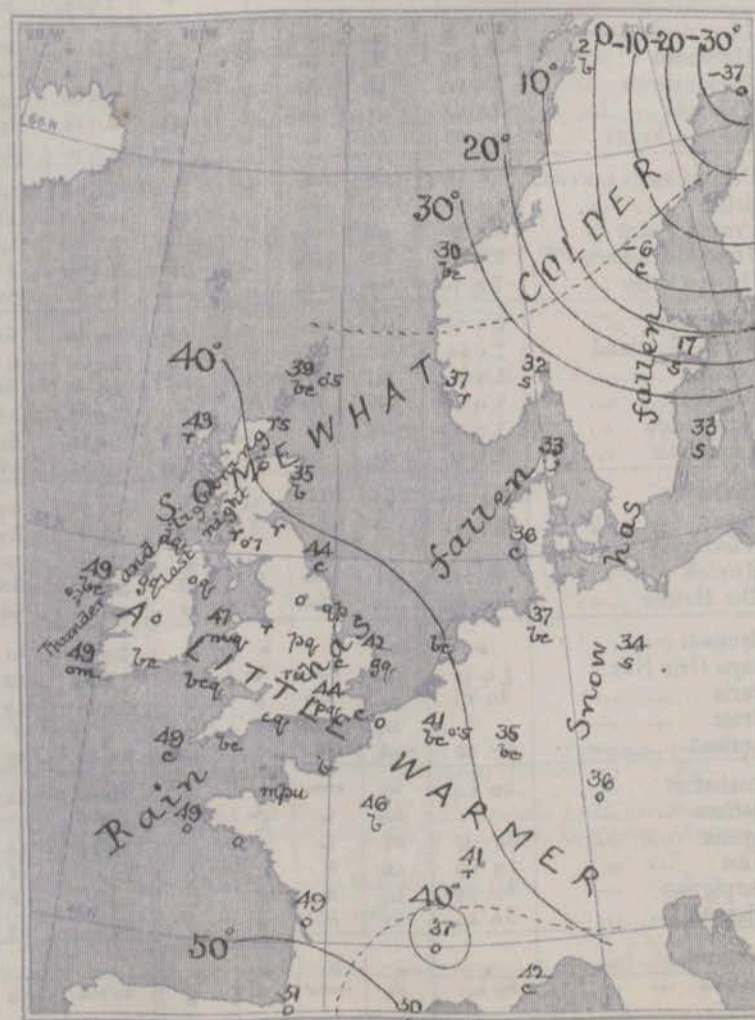
**RAINFALL**—A dotted line separates the districts in which rain has fallen from those where there has been none. Falls of 0.5 in. or more are quoted in figures.

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

(For the month of February.)

STATIONS.	TEMPERATURE				RAINFALL (Inches)
	Daily Max.	Daily Min.	at 8 a.m.	at 8 p.m.	
Sumburgh Head	42.4	34.5	38.6	37.4	3.19
Stornoway	43.5	34.0	39.1	34.1	3.86
Wick	43.1	33.2	38.1	36.7	2.04
Nairn	43.4	33.4	37.1	35.4	1.48
Aberdeen	43.2	33.8	37.3	35.7	2.35
Leith	45.7	31.3	35.6	37.1	1.40
Shields	43.8	35.1	35.6	37.5	1.30
Spurn Head	42.3	35.9	38.4	37.6	1.36
York	41.0	33.0	37.6	36.1	1.70
Loughborough	45.3	43.0	37.5	36.1	1.79
Ardrossan	44.0	38.3	39.4	38.2	3.04
Mullaghmore	46.0	38.0	42.0	40.3	3.09
Donaghadee	45.6	39.9	40.3	39.5	2.42
Holyhead	45.5	38.7	41.5	40.1	2.60
Liverpool	44.5	36.2	38.9	37.3	1.60
Parsonstown	46.9	35.0	39.4	38.1	2.20
Valencia	49.7	40.7	44.0	42.9	4.95
Rocha's Point	48.4	39.6	43.1	41.6	4.48
Pembroke	45.5	39.4	42.1	40.9	2.82
Sally	45.9	42.8	46.0	41.4	2.71
Prawle Point	46.8	38.1	41.5	40.5	2.02
Jersey	46.9	39.3	42.3	41.0	2.55
Hurst Castle	45.7	36.7	40.3	39.3	2.25
Dover	44.1	40.1	39.2	38.1	1.95
LONDON	45.8	35.1	38.6	37.4	1.78
Oxford	45.9	34.5	37.9	36.8	1.62
Cambridge	45.5	32.8	37.3	36.2	1.46
Yarmouth	42.5	34.5	33.2	37.3	1.82

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' and more to 29° 5' over Spain, the Bay of Biscay, and the southwest of France; 29° 5' and more over Ireland and the eastern parts of England.

Lowest, 28° 8' to 28° 7' and less, in a complex depression lying over the northern parts of the North Sea and off the west of Norway.

Gradints rather steep over France, very steep over England and Ireland — for W<sup>2</sup> winds; rather steep over Scandinavia for SE<sup>4</sup> winds.

Barometer rising quickly in the west and southwest, unsteady in the north and east (after falling rapidly).

## TEMPERATURE

Highest,  $51^{\circ}$  at Biarritz,  $49^{\circ}$  at Brat. Lally, and Valencia (Ireland) and above  $40^{\circ}$  at all the English and Irish stations.

Lowest,  $-37^{\circ}$  F. at Haparanda,  $-6^{\circ}$  at Hemseband,  $+17^{\circ}$  at Stockholm,  $34^{\circ}$  at Berlin, and  $35^{\circ}$  at Aberdeen.

Maximas of  $50^{\circ}$  or  $51^{\circ}$  were recorded on some parts of our southwestern and southern coasts yesterday, and on our other coasts they exceeded  $45^{\circ}$ , while in the west and southwest of Harve they ranged between  $50^{\circ}$  and  $53^{\circ}$ .

## WIND

SE<sup>4</sup> to E<sup>2</sup> in Norway and blew hard at Christiansund. WNW<sup>2</sup> moderate in Scotland, SW<sup>3</sup> and W<sup>3</sup> strong in the east of England, W<sup>2</sup> a fresh gale on all our southern and western coasts, and a moderate gale at Lorient.

Strong gales were felt at many of our western stations in the night, and fresh gales in the south and east.

## WEATHER

Squally, changeable, and unsettled, with passing showers in several localities. Rain showers have prevailed more or less at all our own stations, as well as over Sweden, Germany, and the north of France. In most places the amounts are slight, but 0.7 in. fell at Bilmullet and Ardrossan, 0.5 in. at Lumbury Had.

Thunder and lightning have occurred at several of our western and northern stations.

## SEA

High in the northwest, west, and southwest, as well as at C's Key, rough in the channel generally, slight off our northeast coast.


### PROBABLE CHANGES IN SYSTEM NOW PREVALENT

The gale is likely to moderate very slowly, and the wind probably veer to NW., with a decided fall of temperature at night. This latter change, however, is not likely to be permanent.

## FORECASTS

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

DISTRICTS.		FORECASTS.	DISTRICTS.		FORECASTS.
✓	0 SCOTLAND NORTH	Strong W <sup>ly</sup> to NW <sup>ly</sup> winds and gales; squally, showery, colder.	✓	6 SCOTLAND WEST	Same as Nos 0 to 2.
✓	1 SCOTLAND EAST		✓	7 ENGLAND N.W.	
✓	2 ENGLAND N.E.		✓	8 ENGLAND S.W.	
✓	3 ENGLAND EAST		✓	9 IRELAND NORTH	
✓	4 MIDLAND COUNTIES	✓	10 IRELAND SOUTH		
✓	5 ENGLAND SOUTH	Same as No 5  W <sup>ly</sup> gales, squally, showery; afterwards veering to NW, colder but brighter.	WARNINGS  At 10.30 am to Districts 9 + 10, at 0.55 pm to Districts 0.1. and 6 to 8, at 3.30 pm to Districts 3 and 5, and at 7.10 pm to District 2. "Hoist S. Con".		

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.

# 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 ...	29.32	41	40	WSW	4	0	3	Valencia ...	29.72	50	49	SW	7	om	7
Sumburgh Head ...	29.04	42	41	S	3	1	4	Scilly ...	29.97	50	48	WSW	6	op	5
Stornoway ...	28.91	42	42	SW	4	1	4	Jersey ...	30.08	50	47	W	3	ogp	3
Aberdeen ...	29.16	45	43	S	3	og	3	Hurst Castle ...	29.90	45	45	WSW	6	1	4
Shields ...	29.45	49	46	SW	2	0	2	Dungeness ...	29.87	46	45	W	5	0	4
Ardrossan ...	29.31	46	45	SW	6	1	5	North Foreland ...	29.82	47	46	WSW	2	0	3
Malin Head ...	29.17	47	46	WSW	7	0	4	London (Westminster)	29.82	49	46	SW	3	OT	*
Mullaghmore ...	29.32	49	47	SW	7	ogm	5	Yarmouth ...	29.72	46	44	W	4	C	3
Belmullet ...	29.33	49	48	SW	7	ogm	5	Rochefort ...	30.05	50	48	HW	4	C	*
Holyhead ...	29.61	46	45	SW	5	omapp	5								

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

Weather in morning fine and bright over the greater part of southern and south-eastern Europe, and several parts of Ireland; cloudy or overcast and very unsettled elsewhere, with rain in many places, snow at Helsingfors, Riga and Neu-Fahrwasser. Squally and showery lake in nearly all districts, thunder and lightning in the west and northwest of our Islands.

Temperature showing some further rise over south-eastern Europe generally, as well as in Scotland, but a decided fall over northern Europe. Morning readings 50° at Malta, 51° at Palermo and Barcelona, 53° at Lisbon; lower elsewhere, but above the freezing point over France and Central Europe, the North Sea, and west of Norway. Lowest -35° F. to -17° F. over Finland and the northern parts of Russia and Sweden, -6° at Riga, +6° at Stockholm, 27° at Bender. Touching 50° or 51° at some of our western and southern stations later, 52° at Barmby, 61° at Lisbon.

Wind very variable. Anticyclonic NW<sup>1</sup> over Spain, SW<sup>1</sup> over the south of Russia, variable over Finland and the north of Russia; SW<sup>1</sup> and W<sup>1</sup> moderate to strong over the United Kingdom, S<sup>1</sup> to E<sup>1</sup> in Norway; W<sup>1</sup> over Germany, NE<sup>1</sup> over the Baltic Provinces; NW<sup>1</sup> to W<sup>1</sup>, a gale over the northern part of the Mediterranean, SW<sup>1</sup> over Italy, SE<sup>1</sup> over the Adriatic. Blowing hard from about WSW on our western and southern coasts in the evening and gale spreading to our eastern coasts still later.

Barometer highest, 30.4 ins. and more to 30.0 ins. over Algeria, Spain, France, and the southeast of England, and 29.6 ins. and more over Finland and the Gulf of Bothnia. Lowest 29.7 ins. and less, in a depression over Corsica and the north of Italy; 29.5 ins. and less; in another over North Germany and the Baltic, 29.2 ins. and less, in the extreme west of Norway, and to the northward of the Shetlands. New and large depression advancing to Scotland from the westward later, and spreading all over our Islands and their neighbourhood.

### 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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„ Weekly „ „ „ £1 10 0 „

# DAILY WEATHER REPORT

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

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

STATIONS.	YESTERDAY EVENING. (See note at bottom of last page.)					THIS MORNING. (See note at bottom of last page.)										PAST 24 HOURS.		
	BAROM.	TEMP.	WIND.			BAROMETER.	SHADE TEMP.			WIND.						SHADE TEMP.		
	Reading at 32° F. and Sea Level.	Dry Bulb.	Dirac.	Force (0 to 12).	Weather.	Reading at 32° F. and Sea Level.	Change since Yesterday Morn.	Dry Bulb.	Wet Bulb.	Change in dry since Yesterday.	Dirac.	Force (0 to 12).	Weather.	Sea (0 to 9).		Max.	Min.	Amount of Rainfall.
	Inch.	°				Inch.	°	°	°							°	Inch.	
SCANDINAVIA.	Haparanda ...	29.55	-30	N	2	b	29.58	-00	-19	+ 18	NE	2	b	#	b	-26	-37	-
	Hernösand ...	29.59	-15	NW	2	b	29.70	+31	-17	- 11	NW	2	c	#	b	0	-17	-
	Stockholm ...	29.21	-2	N	6	s	29.89	+30	-4	- 21	NNE	6	s	#	s	28	-4	0.16
	Wisby ...	28.97	28	N	6	s	29.26	+14	13	- 20	N	8	s	#	s	36	?	0.12
	Bodö ...	29.63	1	E	5	b	29.70	+24	1	- 1	E	4	b	2	b	2	-44	-
	Christiansund...	29.23	17	NE	8	b	29.29	+39	14	- 16	ENE	8	b	4	b	30	12	-
	Skudesnaes ...	28.99	39	SSE	4	T	29.15	+43	28	- 9	SSE	8	o	5	o.T	39	27	-
	Christiania Fjord (Farler)	29.20	9	NNE	7	o	29.47	+65	4	- 28	NNE	4	o	1	o	32	3	-
	Skagen (The Seaw)	29.09	15	ENE	7	s	29.38	+57	26	- 7	ENE	4	s	3	s	36	7	0.28
	Fanö ...	29.04	33	W	2	c	29.27	+43	35	- 1	W	4	o	#	c	37	32	-
ISLANDS.	Sumburgh Head	29.20	37	N	2	b	29.13	+46	33	- 6	NE	3	o	5	r.b	44	32	0.01
	Stornoway ...	29.34	44	NW	2	o	29.13	+26	37	- 6	NW	3	o	4	c.o	46	34	0.70
	Wick ...	29.26	39	N	3	b	29.06	+32	37	0	E	5	ou	4	b	45	36	0.45
	Nairn ...	29.35	42	NW	1	c	29.04	+21	38	0	NE	2	o	1	c.r	47	36	0.20
	Aberdeen ...	29.31	42	NW	8	bq	29.01	+23	39	+ 4	NW	5	ogq	4	bop.bq	47	35	0.05
	Leith ...	29.42	42	W	2	o	29.15	+35	41	+ 1	N	7	b	#	o	52	38	0.06
	Shields ...	29.39	48	NW	4	b	29.29	+51	43	- 1	NSW	7	b	2	r.c.b	51	41	0.02
	Spurn Head ...	29.41	45	NW	6	bv	29.43	+43	43	+ 2	W	7	b	4	bv	46	40	-
	York ...	29.48	46	W	4	b	29.43	+45	44	- 2	W	4	bc	#	b	50	42	0.01
	Loughborough	29.62	47	NW	6	o	29.58	+42	45	+ 3	SW	5	e	#	o	49	41	0.16
BRITISH.	Ardrossan ...	29.48	46	W	4	o	29.30	+36	43	- 3	NW	7	bc	6	c.o	48	39	0.07
	Malin Head ...	29.53	42	NSW	5	or	29.35	+27	43	- 3	W	6	cq	5	o.T	47	41	0.09
	Mullaghmore ...	29.60	45	W	5	ogd	29.53	+16	43	- 5	W	6	cq	5	q.g.p	50	40	0.03
	Belmullet ...	29.58	48	SW	6	ogp	29.59	+03	43	- 6	W	5	bc	#	ogp	51	40	0.06
	Donaghadee ...	29.62	46	NW	6	c	29.47	+35	40	- 8	W	6	b	5	c	51	37	0.04
	Liverpool (Bidston)	29.64	45	W	7	c	29.56	+46	44	- 2	W	5	o	4	c	51	40	-
	Holyhead ...	29.70	46	NW	5	c	29.60	+36	44	- 3	W	5	cq	5	b.c	50	44	-
	Parsonstown ...	29.75	46	SW	2	c	29.65	+12	42	- 6	SW	1	o	6	ogf	50	40	0.07
	Valencia ...	29.86	50	SW	5	ogm	29.78	-05	47	- 2	W	6	o	6	omg	52	45	0.07
	Roche's Point	29.86	49	W	4	c	29.74	+04	45	- 2	W	3	c	3	c.p	51	43	0.26
GERMANY & HOLLAND.	Pembroke (St. Ann's Hd.)	29.84	47	W	5	c	29.71	+22	45	- 2	W	4	rg	5	c	49	38	0.10
	Scilly ...	30.00	50	NW	7	c	29.84	+05	47	0	NSW	5	c	5	bc.c	50	46	0.01
	Prawle Point ...	29.94	45	W	5	b	29.82	+17	46	+ 1	NSW	5	e	4	b.p	50	42	0.05
	Jersey (St. Aubin's)	29.95	48	NW	6	bm	29.93	+18	49	+ 1	SW	5	ogm	4	bc.b	52	46	-
	Hurst Castle ...	29.81	47	NW	8	bcq	29.77	+26	46	+ 1	NSW	8	om2q	5	cqp	51	44	0.03
	Dungeness ...	29.61	43	NW	6	c	29.70	+34	46	+ 3	W	6	mqr	5	cq	53	42	0.02
	North Foreland	29.52	48	NW	5	c	29.66	+37	49	+ 6	W	4	og	3	cp	49	43	0.03
	London ...	29.65	48	NW	5	b	29.67	+32	49	+ 5	NSW	7	cqp	#	cq.b	52	42	0.03
	Oxford ...	29.76	45	W	3	b	29.66	+31	48	+ 5	NSW	3	p	#	b	51	43	0.02
	Cambridge ...	29.57	45	NW	4	b	29.62	+38	48	+ 5	NSW	3	t	#	b	52	41	0.05
FRANCE AND BELGIUM.	Yarmouth ...	29.38	45	NW	6	bcq	29.53	+37	48	+ 6	W	5	c	4	cq	48	40	0.01
	Cuxhaven ...	29.05	37	W	2	T	29.44	+39	36	- 1	NSW	4	o	#	T	39	36	0.10
	Berlin ...	29.10	38	SW	2	o	29.46	+28	39	+ 5	W	4	o	#	o	43	34	0.20
	Wiesbaden ...	"	"	"	"	"	29.81	+40	42	+ 7	SW	2	o	#	#	45	35	0.24
	Munich ...	29.49	39	SW	8	c	29.86	+26	35	- 1	SW	7	o	#	c	43	32	0.89
	The Helder ...	29.39	40	NW	6	o	29.52	+36	44	+ 1	SW	6	o	4	o	43	37	0.24
	Brussels (9 a.m.)	"	"	"	"	"	29.77	+38	44	+ 3	?	5	T	#	o	47	40	0.35
	Cape Gris Nez	29.58	47	NW	6	o	29.72	+33	45	+ 3	W	6	m	6	o	48	41	0.16
	Paris ...	29.80	49	W	5	o	29.99	+32	44	- 2	SW	3	o	#	o	51	40	-
	Brest ...	"	49	NW	4	c	"	"	50	+ 1	W	4	o	4	c	54	48	-
PENIN-SULA.	Lorient ...	30.10	49	NW	6	c	30.04	+15	50	0	SW	5	o	4	c	50	48	-
	Rochefort ...	30.12	48	W	5	o	30.17	+16	48	- 1	NSW	3	o	#	o	52	46	-
	Belfort ...	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"
	Lyons ...	30.01	46	NW	2	o	30.24	+23	42	+ 5	W	1	o	#	o	52	37	-
	Nice ...	29.73	53	NW	7	b	29.92	-05	46	+ 4	ENE	5	bc	2	b	57	42	-
	Perpignan ...	30.06	59	NW	6	bc	30.23	+16	49	- 1	W	3	b	#	bc	63	48	-
	Biarritz ...	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"
	Corunna ...	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"
	Lisbon ...	30.41	52	NW	4	b	30.42	-02	50	- 1	NW	2	b	#	b	61	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 Saturday, 11<sup>th</sup> Feb. 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.

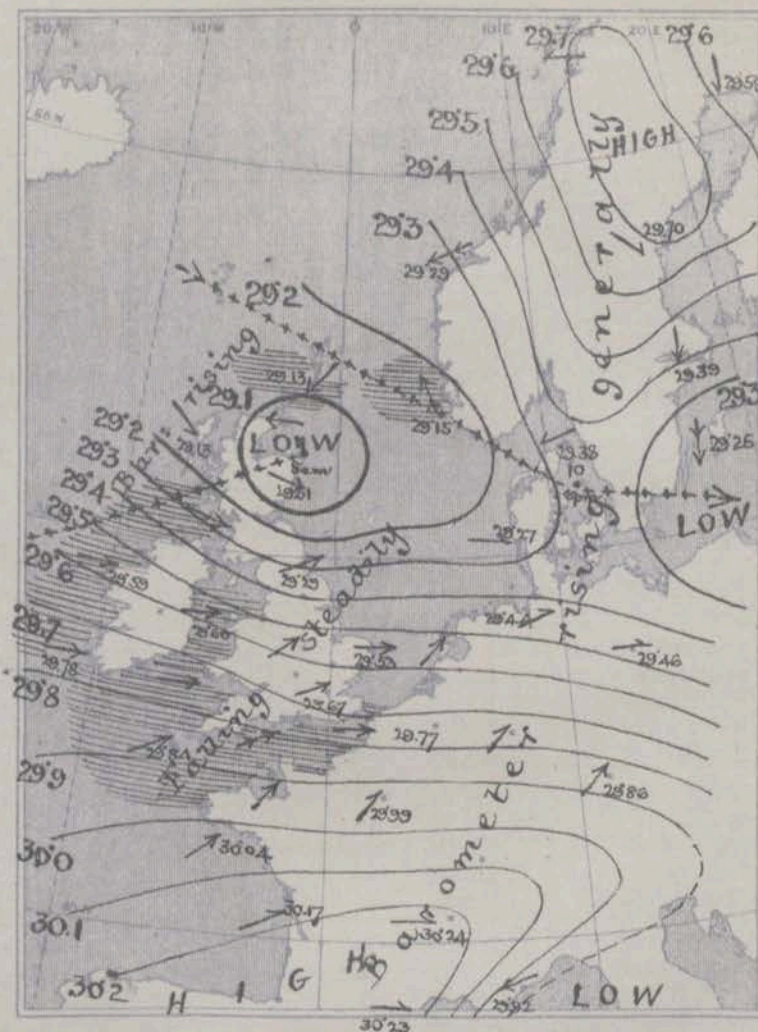
**SEA DISTURBANCE**—Where considerable, is shown thus.

☐ = Rough. ☐ = High.

### MEAN HEIGHT OF THE BAROMETER

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

STATIONS.	MEAN READINGS.
Sundburgh Head	29.775
Stornoway	29.773
Wick	29.894
Nairn	29.814
Aberdeen	29.848
Leith	29.870
Shields	29.906
Spurn Head	29.934
York	29.940
Loughborough	29.963
Ardrossan	29.873
Mullaghmore	29.851
Donaghadee	29.884
Holyhead	29.914
Liverpool	29.934
Parsonstown	29.908
Valencia	29.912
Roche's Point	29.916
Pembroke	29.937
Sally	29.950
Prawle Point	29.993
Jersey	30.007
Hurst Castle	29.986
Dover	29.985
LONDON	29.979
Oxford	29.983
Cambridge	29.979
Yarmouth	29.964



## 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.

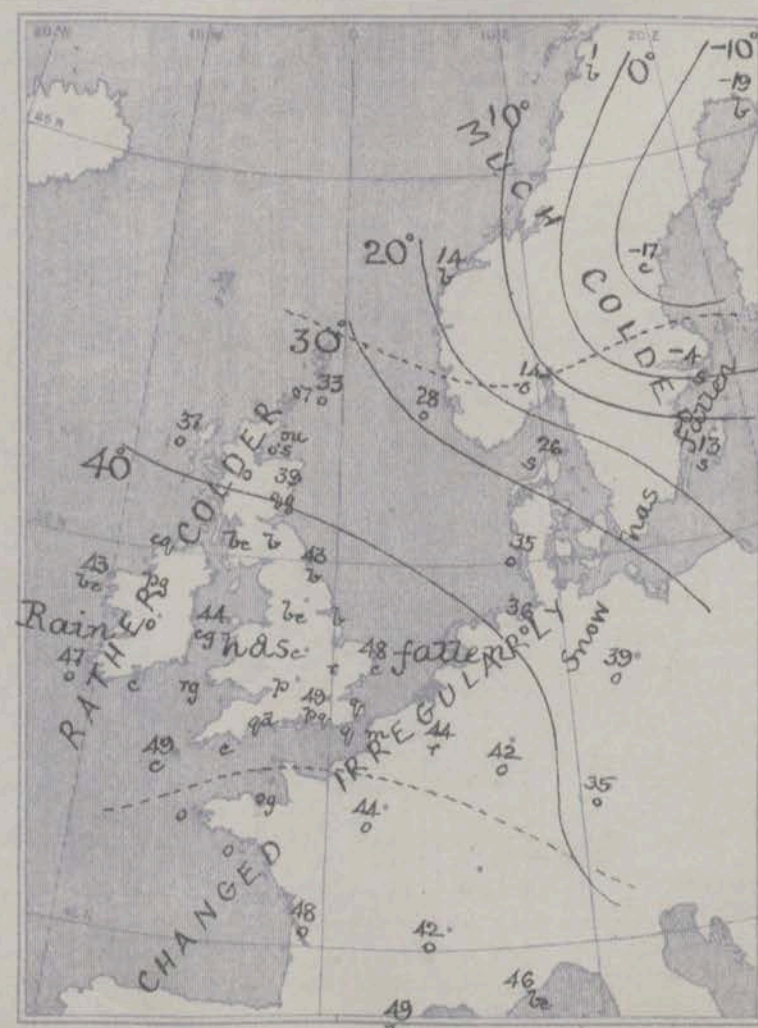
**RAINFALL**—A dotted line separates the districts in which rain has fallen from those where there has been none. Falls of 0.5 in. or more are quoted in figures.

### MEANS OF TEMPERATURE IN SHADE, AND RAINFALL

(For the month of February.)

STATIONS.	TEMPERATURE.				RAINFALL. inches.
	Daily Max.	Daily Min.	At 8 a.m.	At 4 p.m.	
Sundburgh Head	42.4	31.5	38.6	37.4	3.19
Stornoway	43.5	34.0	39.1	38.1	3.86
Wick	43.1	33.2	38.1	36.7	2.01
Nairn	43.1	33.4	37.1	35.4	1.48
Aberdeen	43.2	33.8	37.3	35.7	2.35
Leith	45.7	34.3	38.0	37.1	1.45
Shields	43.8	35.1	39.6	37.3	1.30
Spurn Head	42.3	35.0	38.4	37.6	1.36
York	44.0	35.0	37.5	36.1	1.70
Loughborough	40.3	33.0	37.5	36.1	1.70
Ardrossan	44.0	35.3	39.4	38.2	3.04
Mullaghmore	40.6	38.0	42.0	40.3	2.09
Donaghadee	45.5	35.9	40.3	39.3	2.12
Holyhead	45.0	38.7	41.5	40.1	2.60
Liverpool	44.5	39.2	38.9	37.3	1.69
Parsonstown	46.9	35.0	39.4	38.1	2.20
Valencia	49.7	40.7	41.5	42.9	4.05
Roche's Point	48.4	39.6	43.1	41.6	4.13
Pembroke	45.6	39.4	42.1	40.9	2.82
Sally	48.9	42.8	46.0	44.4	2.71
Prawle Point	48.8	38.1	41.5	40.6	2.62
Jersey	46.9	39.3	42.3	41.0	2.35
Hurst Castle	45.7	36.7	40.3	39.3	2.25
Dover	44.1	36.1	39.2	38.1	1.46
LONDON	45.8	35.1	38.0	37.4	1.78
Oxford	45.0	34.0	37.9	36.8	1.92
Cambridge	45.0	32.8	37.3	36.2	1.46
Yarmouth	44.6	34.5	38.2	37.2	1.82

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 (1) 30.4 ins and more to 30.2 ins over Spain and the southeast of France, (2) 29.7 ins and more to 29.5 ins over the north of Scandinavia.  
Lowest (1) 29.3 ins and less, in a depression over the Baltic, 29.1 ins and less, in another over the northeast of Scotland and the Moray Firth.  
Gradients steep in most places. Barometer very unsettled, but beginning to rise in the west of Scotland.

## TEMPERATURE

Highest, 50° at Linton and Brest, 49° at Jersey and Lally, and about 40° over Ireland, England, and France generally.  
Lowest, -19° to -17° in the north of Sweden, -14° at Stockholm, -14° at Gaarder, 33° at Nisby, 31° to 33° in the northeast of Scotland.  
It appears to be falling in the northwest and north of Scotland, but has risen over England and Germany. The fall in the north is apparently spreading.

## WIND

Moderate SW<sup>ly</sup> over Germany and France, W<sup>ly</sup> strong to a gale over Ireland and England, E<sup>ly</sup> to N<sup>ly</sup> in the north of Scotland.  
The gale seems to be dying down over Ireland and England for the present.

## WEATHER

Very changeable and unsettled over our islands - squally and showery in many places, clear in others.  
Rain has again fallen at almost all stations, but the amounts are large in the north of Scotland only.

## SEA

Continues rough except off our east coasts.

## PROBABLE CHANGES IN SYSTEM NOW PREVALENT

The general appearance is somewhat better than it was yesterday, but the type of pressure-distribution is very unsettled.

# FORECASTS

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

DISTRICTS.	FORECASTS.
0 SCOTLAND NORTH	NE <sup>ly</sup> to NW <sup>ly</sup> winds, strong to moderate; squally, cold showers.
1 SCOTLAND EAST	W <sup>ly</sup> to NW <sup>ly</sup> gales and strong winds, moderating; squally, showery, colder.
2 ENGLAND N.E.	
3 ENGLAND EAST	Same as No. 5
4 MIDLAND COUNTIES	
5 ENGLAND SOUTH	W <sup>ly</sup> winds, strong, squally, showery; moderating later, very unsettled.

DISTRICTS.	FORECASTS.
6 SCOTLAND WEST	Same as Nos. 1 and 2
7 ENGLAND N.W.	
8 ENGLAND S.W.	Same as No. 5.
9 IRELAND NORTH	W <sup>ly</sup> and SW <sup>ly</sup> winds, moderating slowly; showery, very unsettled.
10 IRELAND SOUTH	
WARNINGS	The SOUTH CONE is still flying on all coasts excepting districts 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 ...	29.65	39	37	L	0	0	5	Valencia ...	29.93	49	47	WSW	5	om	6
Sanburgh Head ...	29.00	41	40	H	5	T	4	Scilly ...	29.93	50	47	WSW	7	bc	6
Stornoway ...	29.26	46	43	HW	5	C	5	Jersey ...	29.84	52	49	WSW	6	bc	5
Aberdeen ...	29.06	47	42	HW	10	bcqfu	5	Hurst Castle ...	29.65	50	46	HW	10	cq p	5
Shields ...	29.16	49	46	W	4	C	2	Dungeness ...	29.45	53	47	HW	5	cq	6
Ardrossan ...	29.37	48	45	WSW	7	C	6	North Foreland ...	29.82	48	46	W	9	C	5
Malin Head ...	29.51	45	44	NW	5	0	5	London (Westminster) ...	29.44	52	46	WSW	5	cq	4
Mullaghmore ...	29.65	48	45	W	5	ogm	7	Yarmouth ...	29.17	49	43	HW	7	og	4
Belmullet ...	29.71	48	44	W	5	og	8	Rochefort ...	30.05	49	47	WSW	5	0	4
Holyhead ...	29.55	49	46	WSW	7	0	6								

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

Weather in morning fine and bright over the southern part of Italy and Spain, as well as in some part of France and the north of Scandinavia; cloudy or overcast elsewhere, and extremely unsettled over the British Islands and their neighbourhood, rain falling in many places, snow over the Gulf of Finland and the Baltic. Squally showery weather continuing over the United Kingdom, Germany, and the Netherlands, during the day, but amounts of rainfall small except in the north of Scotland.

Temperature changing slightly and irregularly except in the Baltic Provinces and on the shores of the Gulf of Finland, where it had risen rapidly. Morning readings exceeding 50° on the Spanish and Algerian coasts, and exceeding 40° over France, England and Ireland. Lowest - 37° F. to - 30° over the extreme north of Europe, - 13° at Moscow, - 6° at Helsingfors, + 18° at Riga, 29° at Kiev and Bucharest. Rising to 50° or more in the west of our Islands later, to 57° at Nice, 63° at Perpignan, and 61° at Lisbon.

Wind blowing in gale from between SW and NW over England, Ireland, and the Channel, and a fresh breeze from NW in Scotland, moderate to strong from the S over the Baltic and from E over Norway. Very variable over southern Europe and the Mediterranean but S and SW in the south of Russia. Loose gales from NW over the Netherlands, and some parts of the British coast later, and strong to fresh gales elsewhere, but wind moderating in Ireland and backing to SW.

Barometer highest 30.4 in: and more over Spain and the southwest of France, and exceeding 29.9 in: over Central Russia and 29.5 in: over Lapland. Lowest, 28.7 in: and less, in the Shetland Islands and their neighbourhood, 28.8 in: and less, over all the northern half of the North Sea and the east of Scotland. Depression in these latter regions moving south-eastwards later. Barometer rising rapidly in Scotland, but beginning to fall again in the north-west of Ireland.

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

**WEATHER.**—Beaufort Scale in 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 12<sup>th</sup> February,

1893

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

Received of the Meteorological Office, 63, Victoria Street, London. R. H. SCOTT, Secretary.

STATIONS.	YESTERDAY EVENING. (See note at bottom of last page.)						THIS MORNING. (See note at bottom of last page.)										PAST 24 HOURS.			
	Barom.	Temp.	Wind.		Force (0 to 12).	Weather.	Barometer.		Shade Temp.			Wind.		Force (0 to 12).	Weather.	Sea (0 to 9).	Shade Temp.		Amount of Rainfall.	
																				Reading at 32° F. and Sea Level.
			Ins.	°			°	°	°	Ins.	°	°	°				°	Ins.		
SCANDINAVIA.	Haparanda ...	29.62	-28	N	2	b	29.67	+ .09	-32	-23	-	13	N	2	f	#	b	-9	?	—
	Hernösand ...	29.68	-19	N	0	b	29.66	- .04	-22	-20	-	5	N	0	b	#	b	-4	-26	—
	Stockholm ...	29.48	-7	N	2	b	29.49	+ .10	-4	-4	-	0	NNW	2	b	#	b	3	-8	0.04
	Wisby ...	29.36	9	NNE	6	s	29.40	+ .04	10	9	-	3	NNE	4	s	#	b	16	5	0.04
	Bodo ...	29.67	12	E	4	0	29.64	- .03	18	?	+	7	E	2	0	#	0	?	0	?
SCANDINAVIA.	Christiansund...	29.29	17	ESE	8	b	29.45	+ .16	19	17	+	5	E	6	b	#	b	19	14	—
	Skudesnaes ...	29.33	25	SSE	6	s	29.44	+ .11	21	20	-	7	SSE	7	s	#	s	28	19	—
	Christiania Fjord (Harder)	29.50	5	NNE	5	bc	29.62	+ .12	5	4	+	1	NNE	2	b	#	bc	5	?	—
	Skagen (The Scaw)	29.34	7	E	6	s	29.55	+ .17	8	7	-	18	E	4	0	#	s	27	5	—
	Fanö ...	29.21	27	N	6	0	29.49	+ .28	17	17	-	18	N	4	c	#	0	32	16	—
SCANDINAVIA.	Sumburgh Head	29.32	29	NNE	2	c	29.39	+ .07	27	25	-	6	N	2	bc	#	c	33	25	0.02
	Stornoway ...	29.26	35	SE	4	r	29.57	+ .31	32	32	-	5	N	3	s	#	r	39	30	0.20
	Wick ...	29.31	35	N	1	b	29.46	+ .15	27	25	-	10	N	2	s	#	b	37	26	0.08
	Nairn ...	29.30	34	E	1	s	29.52	+ .22	27	27	-	10	WSW	1	b	#	275.	26	0.26	
	Aberdeen ...	29.32	35	NE	1	0	29.51	+ .19	27	27	-	11	NNW	2	b	#	25	25	0.15	
SCANDINAVIA.	Leith ...	29.34	37	W	4	b	29.35	+ .01	35	31	-	6	NNW	2	bc	#	b	46	33	0.03
	Shields ...	29.39	40	WSW	4	b	29.44	+ .05	37	35	-	6	NNW	4	0	#	bc	45	35	—
	Spurn Head ...	29.45	40	W	5	b	29.46	+ .01	36	35	-	7	WSW	4	0	#	b	44	34	—
	York ...	29.49	41	W	5	b	29.44	+ .05	38	37	-	6	W	3	0	#	b	47	36	—
	Loughborough	29.57	41	WSW	3	c	29.58	+ .01	35	33	-	10	WSW	4	cq	#	c	49	34	—
BRITISH ISLANDS.	Ardrossan ...	29.40	41	W	5	c	29.58	+ .18	36	34	-	7	NNW	1	c	#	c	46	34	0.16
	Malin Head ...	29.44	40	WNW	5	cp	29.60	+ .16	41	38	-	2	NNW	6	cp	#	cp	44	35	0.11
	Mullaghmore ...	29.53	40	WSW	5	cp	29.76	+ .23	37	36	-	6	NNW	5	cp	#	chrp	44	35	0.24
	Belmullet ...	29.55	41	W	5	cp	29.82	+ .27	37	36	-	4	NNW	4	c	#	chrp	43	35	0.19
	Donaghadee ...	29.50	39	WNW	5	bc	29.62	+ .12	39	37	-	1	NNW	6	c	#	bc.g	45	39	0.07
BRITISH ISLANDS.	Liverpool (Bidston)	29.55	41	W	5	0	29.54	- .01	37	36	-	7	NNW	9	r	#	0	41	35	0.07
	Holyhead ...	29.58	41	W	4	c	29.64	+ .06	40	35	-	4	NNW	6	cq	#	c	45	37	—
	Parsonstown ...	29.66	35	SW	1	c	29.85	+ .19	34	33	-	8	N	0	bc	#	c	42	33	0.10
	Valencia ...	29.80	41	SW	7	chrp	29.00	+ .22	41	39	-	6	NNW	5	cq	#	chrp	46	37	0.04
	Roche's Point	29.75	42	WNW	4	bc	29.94	+ .19	37	36	-	8	NNW	4	rsp	#	bcps	46	35	0.15
BRITISH ISLANDS.	Pembroke (St. Ann's Hd.)	29.70	44	NNW	6	bc	29.83	+ .13	41	39	-	4	NNW	6	b	#	bc.hq	46	38	0.09
	Scilly ...	29.88	47	WNW	5	cp	29.95	+ .07	44	39	-	5	NNW	6	c	#	cp	50	29	0.15
	Prawle Point ...	29.78	43	W	5	0	29.86	+ .08	38	37	-	8	W	5	bc	#	0.p	48	36	0.16
	Jersey (St. Aubin's)	29.80	49	WSW	5	opm	29.88	+ .08	45	40	-	4	NNW	6	bc	#	opm	51	44	0.13
	Hurst Castle ...	29.71	44	WNW	5	c	29.75	- .04	38	37	-	8	NNW	5	b	#	rpe	47	37	0.22
BRITISH ISLANDS.	Dungeness ...	29.64	44	WNW	5	r	29.67	- .03	38	36	-	8	W	4	bc	#	r	48	34	0.10
	North Foreland	29.60	45	W	3	0	29.66	- .06	36	35	-	13	W	3	b	#	0	53	34	0.05
	London ...	29.65	44	W	3	0	29.68	+ .03	35	34	-	14	W	4	b	#	0.r	52	34	0.07
	Oxford ...	29.65	39	W	2	b	29.69	+ .04	35	33	-	13	WSW	3	b	#	bc.r	49	34	0.06
	Cambridge ...	29.59	44	WSW	2	0	29.63	+ .04	36	35	-	12	SW	3	bc	#	0	50	32	—
BRITISH ISLANDS.	Yarmouth ...	29.57	44	WNW	5	cq	29.56	+ .01	34	33	-	14	W	4	bc	#	cq	49	32	—
	Cuxhaven ...	29.36	38	W	6	r	29.43	- .07	32	31	-	4	NNE	2	s	#	r	40	27	0.02
	Berlin ...	29.47	40	W	4	c	29.50	+ .03	38	37	-	1	W	3	c	#	c	43	37	0.08
	Wiesbaden ...	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	
	Munich ...	29.91	40	SW	5	0	29.74	- .17	40	38	+	5	W	6	c	#	0	41	35	0.04
GERMANY & HOLLAND.	The Helder ...	29.54	41	WSW	6	c	29.55	+ .01	38	36	-	3	W	5	c	#	c	43	37	—
	Brussels (o a.m.)	*	*	*	*	*	29.71	- .06	34	33	-	10	SW	2	c	#	r	47	34	0.24
	Cape Gris Nez	29.65	43	W	5	r	29.67	- .02	38	36	-	17	WNW	5	bc	#	r	46	36	0.29
	Paris ...	29.85	50	SSW	5	0	29.85	- .00	38	37	-	6	SW	3	0	#	0	?	35	0.12
	Brest ...	?	43	N	3	r	?	?	43	41	-	7	NNW	5	c	#	r	52	29	0.24
FRANCE AND BELGIUM.	Lorient ...	29.93	50	WSW	6	c	30.03	- .10	44	41	-	6	WNW	6	bc	#	c	52	43	0.24
	Rochefort ...	29.07	49	W	4	c	30.06	- .11	45	44	-	3	NNW	4	bc	#	c	52	43	0.20
	Belfort ...	?	42	WSW	4	0	?	?	38	36	-	0	W	5	my	#	0	44	35	0.20
	Lyons ...	30.13	44	ESE	1	bc	29.96	- .18	42	39	-	2	S	2	0	#	bc	52	41	—
	Nice ...	29.60	53	E	2	b	29.92	- .00	44	39	-	2	L	0	b	#	b	60	41	—
FRANCE AND BELGIUM.	Perpignan ...	30.17	52	W	2	b	30.13	- .04	46	42	-	3	SW	2	c	#	b	63	45	—
	Biarritz ...	30.21	53	W	4	0	30.15	- .06	51	50	+	2	W	6	r	#	0	54	46	0.04
	Corunna ...	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	
	Lisbon ...	30.39	53	NNW	4	c	30.41	- .02	50	47	-	0	N	0	bc	#	c	59	48	—
	PENIN- SULA.																			

For Explanation of Columns, see bottom of last page.

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

# WEATHER CHARTS

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

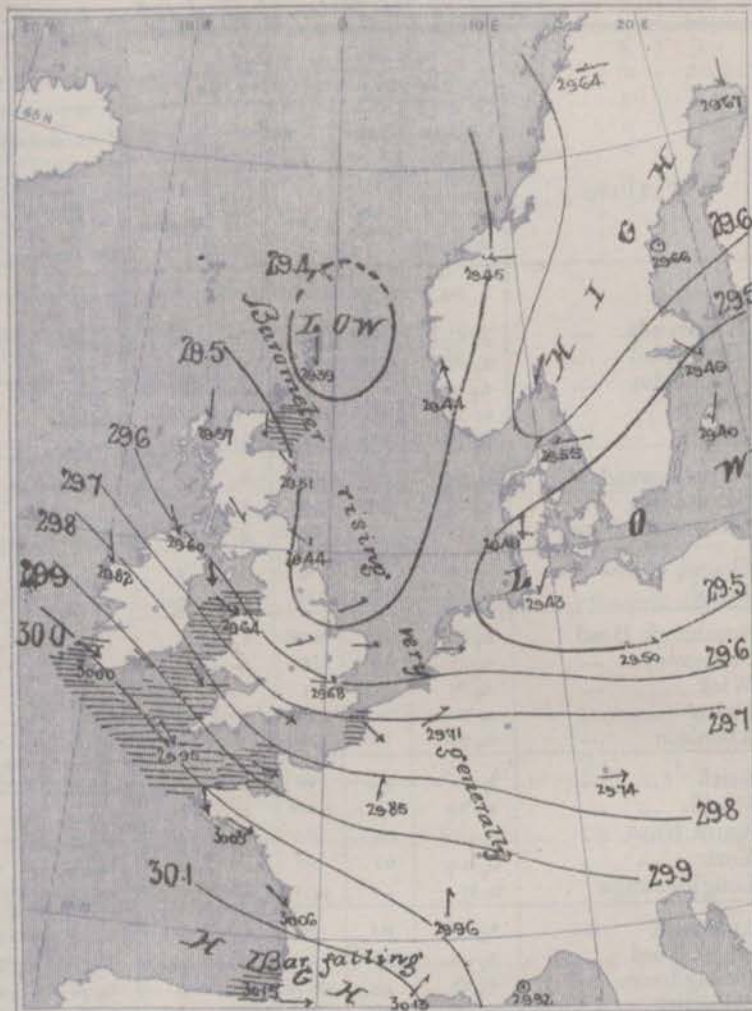
### MEAN HEIGHT OF THE BAROMETER

at 8.0 a.m. for the month of February  
During the 20 Years: 1871—1890.

#### STATIONS.

#### MEAN READINGS.

STATIONS.	MEAN READINGS.
Samburgh Head	29.773
Stornoway	29.773
Wick	29.834
Nairn	29.813
Aberdeen	29.818
Leith	29.870
Shields	29.906
Spurn Head	29.934
York	29.939
Loughborough	29.963
Androsan	29.973
Mullaghmore	29.854
Donaghadee	29.884
Holyhead	29.914
Liverpool	29.934
Parsonstown	29.900
Valencia	29.919
Roche's Point	29.910
Pembroke	29.937
Selly	29.959
Prawle Point	29.993
Jersey	30.007
Hurst Castle	29.986
Dover	29.985
LONDON	29.970
Oxford	29.983
Cambridge	29.979
Yarmouth	29.964



## 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.

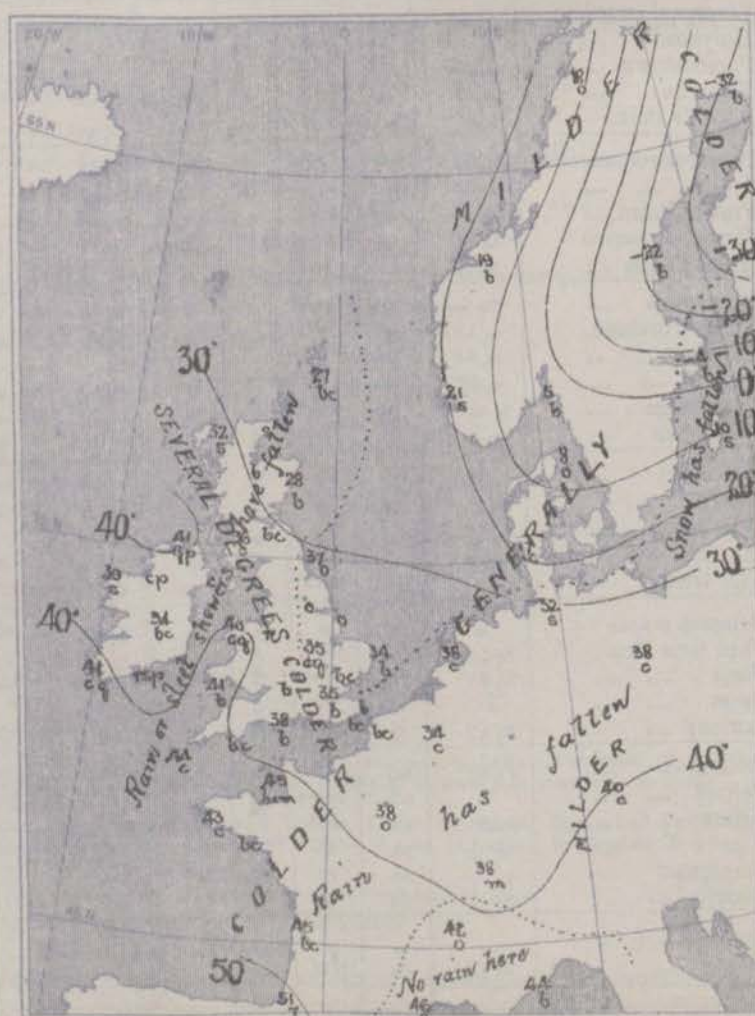
**RAINFALL**—A dotted line separates the districts in which rain has fallen from those where there has been none. Falls of 0.5 in. or more are quoted in figures.

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

(For the month of February.)

STATIONS.	TEMPERATURE.				RAINFALL inches.
	Daily	Daily	at 8 a.m.		
	Max.	Min.	Dry.	Wet.	
Sunamugh Head	42.4	34.6	38.6	37.4	3.19
Stornoway	43.6	34.6	39.1	35.1	3.50
Wick	43.1	33.2	38.1	30.7	2.04
Nairn	43.4	33.4	37.1	35.4	1.48
Aberdeen	43.2	33.8	37.3	35.7	2.35
Leith	45.7	34.3	38.6	37.1	1.45
Shields	43.8	35.1	38.6	37.3	1.50
Spurn Head	42.3	35.0	38.4	37.0	1.86
York	44.6	33.0	37.5	30.4	1.70
Loughborough	45.3	33.0	37.5	30.4	1.78
Androsan	44.8	36.3	39.4	38.2	3.04
Mullaghmore	46.6	38.6	42.9	40.3	3.00
Donaghadee	45.6	34.9	40.3	39.3	2.42
Holyhead	45.6	38.7	41.5	40.1	2.59
Liverpool	44.6	36.2	38.9	37.3	1.69
Parsonstown	46.9	36.6	39.4	38.1	2.20
Valencia	49.7	40.7	43.6	42.9	4.95
Roche's Point	48.1	39.6	43.1	41.6	4.43
Pembroke	45.6	39.4	42.1	40.9	2.82
Selly	48.9	42.8	46.0	44.4	7.71
Prawle Point	40.8	38.1	41.5	40.3	2.02
Jersey	46.9	39.3	42.3	41.0	2.55
Hurst Castle	45.7	46.7	40.3	39.3	2.25
Dover	44.1	36.1	39.2	38.1	1.95
LONDON	45.6	35.1	38.6	37.4	1.78
Oxford	43.6	34.6	37.9	36.8	1.62
Cambridge	45.5	32.8	37.3	36.2	1.46
Yarmouth	47.6	34.5	38.2	37.3	1.82

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



# GENERAL SITUATION AT 8 A.M.

## PRESSURE

Highest, 30.4 in. and more to 30.1 in. over Spain and the south-west of France; 29.6 in. and more over Lapland and Sweden.  
 Lowest, { 29.4 in. and less, both over the Baltic and the Friesland Isles.  
 { 29.5 in. and less, over our northeastern countries and the adjacent parts of the North Sea.  
 Gradients slight over the North Sea and the northern half of Sweden, moderate elsewhere.  
 Barometer rising in the north and west, giving way over France.

## TEMPERATURE

Highest, 51° at Paris, 50° at Lisbon, and between 40° and 45° on our southwestern coasts and in the west and north-west of France.  
 Lowest, -32° F. at Hafnarvalla, -21° at Amsterdam, -4° at Stockholm, -17° to -16° in Denmark; above the freezing point over England, France and Germany.  
 It has fallen very decidedly over our Islands during the night.

## WIND

(1) NW<sup>1</sup> to N<sup>1</sup>, light in Scotland. SE<sup>1</sup> to E<sup>1</sup> strong in the west of Norway.  
 (2) NW<sup>1</sup> fresh to a gale at our western stations, fresh to strong over the Channel and Bay of Biscay, W over the Netherlands, Germany, and the east of France.  
 (3) E<sup>1</sup> to N<sup>1</sup> moderate over Denmark and the south of Sweden.  
 A strong gale is blowing at Bidston Observatory.

## WEATHER

Still very changeable over the United Kingdom and neighbourhood, temporarily clear in some places, squally and showery in others, with snow over the northern half of Scotland and at several stations lying to the eastward of the North Sea.  
 Snow and rain have fallen in the north, rain showers over Ireland, England and France. Lightning has been seen at Malin Head.

## SEA

Rough at Wick and on our west and south-west coasts, as well as on the French side of the Channel, slight or moderate on our southern coasts, smooth in the northeast.

## PROBABLE CHANGES IN SYSTEM NOW PREVALENT

# FORECASTS

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

DISTRICTS.	FORECASTS.	DISTRICTS.	FORECASTS.
0 SCOTLAND NORTH 1 SCOTLAND EAST 2 ENGLAND N.E. 3 ENGLAND EAST 4 MIDLAND COUNTIES 5 ENGLAND SOUTH	<p>None issued.</p>	6 SCOTLAND WEST 7 ENGLAND N.W. 8 ENGLAND S.W. 9 IRELAND NORTH 10 IRELAND SOUTH	<p>None issued.</p>
		WARNINGS	At 7 pm yesterday to districts 6 to 10 and part of 0. "Lower Cone"

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

# YESTERDAY'S 2 P.M. REPORTS.

	BAR.	THER.		WIND. Dirac.	F.	WEA.	SEA.		BAR.	THER.		WIND. Dirac.	F.	WEA.	SEA.
		Dry.	Wet.							Dry.	Wet.				
Skudeanaes ...	29.19	27	26	SSE	4	5	4	Valencia ...	29.8	45	47	W	7	89	6
Sumburgh Head ...	29.26	31	29	NE	3	0	5	Scilly ...	29.8	48	45	WNW	5	0	5
Stornoway ...	29.25	35	35	NNW	3	5	3	Jersey ...	29.57	49	47	WSW	5	c	4
Aberdeen ...	29.27	37	35	N	3	09	3	Hurst Castle ...	29.71	45	45	WNW	6	od	5
Shields ...	29.30	45	44	WSW	7	6c	2	Dungeness ...	29.64	46	45	W	7	0	6
Ardrossan ...	29.35	45	43	W	7	6c	6	North Foreland ...	29.64	46	45	W	4	0	4
Malin Head ...	29.41	40	39	WNW	5	c	4	London ...	29.65	47	45	W	4	0	4
Mullaghmore ...	29.52	40	39	WNW	5	0p	5	Yarmouth ...	29.51	49	44	WNW	5	c	4
Belmullet ...	29.54	42	39	WSW	3	0p	4	Rochefort ...	29.82	51	49	W	4	0	4
Holyhead ...	29.54	45	41	W	4	c	4								

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

Weather in morning fine and bright over the extreme north and also over the southwest of Europe, very changeable over the western, central and eastern countries — cloudy or overcast in most places, raining over the southeast of England, the Netherlands, and parts of Germany and Austria; snow over the Baltic and Gulf of Finland, and an angry appearance at West. Some cold rain (or snow) later over nearly the whole of our Islands, France, and Germany, and further falls of snow over the Baltic.

Temperature over Austria, Hungary, and Russia, fallen over Finland and Scandinavia, and beginning to fall decidedly over Ireland and the north of Scotland. Morning readings exceeding 50° on the southern side of the Mediterranean and on the Spanish coast, below that value over the United Kingdom and France. Very low over northern Europe and lowest of all -37° F. at Uleaborg, -26° at Archangel, -5° at Helsingfors -3° at St. Petersburg, +10° at Moscow, 14° at Christianund. Exceeding 50° over the southeast of England, the northwest of France, and north of Italy later exceeding 60° in Sicily, on the Spanish coast, and exceeding 65° on the Algerian coast.

Wind very variable (1) E<sup>ly</sup> to N<sup>ly</sup> over northern Europe, — light in many places, but strong at Stockholm, and blowing a gale at Mithy and in the west of Norway; (2) W<sup>ly</sup> over Ireland, England and Germany — fresh to strong in force, SW<sup>ly</sup> to S<sup>ly</sup> light over Russia; (3) Very variable over the Mediterranean, but chiefly NE<sup>ly</sup> over the Gulf of Genoa, NW<sup>ly</sup> in Corsica, Sardinia, Sicily, and Malta. Varying and backing alternately over our western districts later, but changing little as a whole — gale in southeast of Sweden dying down.

Barometer highest 30.4 in. and more to 30.1 in. over Spain and the southern half of France, exceeding 29.8 in. over the southeast of Russia, and exceeding 29.7 in. over the northern parts of Scandinavia. Lowest 29.3 in. and less, in a depression having its central area over the Baltic Provinces, and 29.1 in. and less, in another over the northeastern half of Scotland and adjacent parts of the North Sea. Rising in the last named regions later, changing fitfully and slightly on our western coast.

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

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

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

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

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# DAILY WEATHER REPORT

for 8 a.m. on *Monday, 13<sup>th</sup> February, 1893*

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

STATIONS.		YESTERDAY EVENING. (See note at bottom of last page.)					THIS MORNING. (See note at bottom of last page.)										PAST 24 HOURS.			
		Barom. Reading at 32° F. and Sea Level.	Temp. Dry Bulb.	Wind.		Weather.	Barometer.		Shade Temp.			Wind.		Sea (0 to 9).	Weather.	Shade Temp.		Amount of Rainfall.		
				Dir.	Force (0 to 12).		Reading at 32° F. and Sea Level.	Change since Yesterday Morn.	Dry Bulb.	Wet Bulb.	Change in dry since Yesterday.	Dir.	Force (0 to 12).			Max.	Min.			
		Ina.	°				Ina.	°	°	°							°	Ina.		
SCANDINAVIA.	Haparanda ...	29.70	-22	NNE	2	b	29.78	+11	-20	-20	+12	NNE	2	b	#	b	-16	-33	-	
	Hernösand ...	29.63	-1	N	2	bc	29.69	+03	7	7	+29	NE	4	s	#	bc	7	-26	-	
	Stockholm ...	29.63	-4	N	2	b	29.67	+18	-10	-10	-6	W	2	b	#	b	5	?	-	
	Wisby ...	29.61	10	N	6	b	29.72	+32	9	8	-1	NNE	4	b	#	b	12	5	-	
	Bodö ...	29.70	22	E	2	o	29.75	+11	24	22	+6	E	2	c	#	o	24	18	-	
	Christiansund...	29.57	21	ESE	4	b	29.61	+16	17	16	-2	ESE	4	b	3	b	21	16	-	
	Skudesnaes ...	29.48	23	SSE	8	o	29.51	+06	22	21	+1	E	6	o	3	o	25	19	-	
	Christiania Fjord (Færdor)	29.71	12	N	2	b	29.75	+13	4	3	-1	N	4	o	1	b	12	3	-	
	Skagen (The Scaw)	29.71	14	E	2	bc	29.63	+08	14	12	+6	SE	3	c	2	bc	14	7	-	
	Fanö ...	29.63	21	ESE	4	o	29.74	+05	30	30	+13	SW	4	bc	#	o	30	17	0.08	
BRITISH ISLANDS.	Sumburgh Head	29.43	28	N	2	csp	29.48	+09	29	27	+2	Z	0	bc	4	spe	31	26	0.01	
	Stornoway ...	29.65	36	NW	3	c	29.49	-08	35	34	+3	SSE	4	bc	4	c	38	25	0.02	
	Wick ...	29.52	30	N	3	bc	29.48	+02	23	21	-4	N	2	c	2	bc	35	20	0.15	
	Nairn ...	29.64	31	WSW	1	b	29.56	+04	20	20	-8	Z	0	b	1	b	34	20	-	
	Aberdeen ...	29.62	30	W	3	b	29.57	+06	26	25	-2	WSW	2	b	3	b	35	24	-	
	Leith ...	29.68	38	W	2	b	29.58	+03	29	29	-6	SW	1	m	4	b	42	28	-	
	Shields ...	29.68	36	WSW	1	b	29.62	+18	33	32	-4	W	1	cm	3	psh. b	40	30	0.03	
	Spurn Head ...	29.73	37	WNW	1	bc	29.67	+21	35	34	-1	SW	3	or sp	4	bc. p	40	34	0.02	
	York ...	29.73	36	NW	1	b	29.66	+22	35	35	-3	S	1	m	#	b	42	34	0.01	
	Loughborough	29.82	38	W	3	bc	29.73	+15	35	34	-1	SSW	2	c	#	sq. bc	44	34	0.07	
GERMANY & HOLLAND.	Arrossan ...	29.69	37	Z	0	cp	29.54	-04	36	35	-2	ENE	2	o	2	cp	40	32	0.02	
	Malin Head ...	29.75	37	WNW	4	or sp	29.43	-17	38	38	-3	S	4	o	2	or sp	41	35	0.10	
	Mullaghmore ...	29.81	41	W	5	or sp	29.42	-34	42	42	+5	SW	5	o pg	4	or sp	42	36	0.10	
	Belmullet ...	29.84	40	WSW	3	op	29.32	-50	46	45	+7	SSW	3	r	2	op	46	36	0.29	
	Donaghadee ...	29.78	38	NW	5	bc	29.56	-06	38	38	-1	SW	3	r	2	bc	42	37	0.02	
	Liverpool (Bidston)	29.80	38	W	6	c	29.66	+12	36	35	-1	S	1	o	3	c	41	35	0.10	
	Holyhead ...	29.83	40	WNW	5	bc	29.62	-02	43	42	+3	SW	4	og	4	c. bc	48	39	0.02	
	Parsonstown ...	29.90	39	SW	1	o	29.47	-38	41	40	+7	Z	0	or sp	#	o	43	33	0.02	
	Valencia ...	29.96	43	WSW	4	op m	29.50	-50	48	47	+7	S	5	og m	5	omp	48	40	0.13	
	Roche's Point	29.95	43	WNW	2	o	29.59	-35	47	47	+10	WSW	4	p	4	o	47	36	0.25	
FRANCE AND BELGIUM.	Pembroke (St. Ann's Hd.)	29.92	42	WNW	5	bc	29.68	-15	45	44	+4	SW	4	bc	5	bc	45	39	0.05	
	Scilly ...	30.04	45	WNW	4	c	29.78	-17	47	45	+3	SW	5	cp	4	c	47	39	0.13	
	Prawle Point ...	30.01	38	WNW	4	b	29.81	-05	44	43	+6	WSW	4	cg	3	pg. ts	45	38	0.12	
	Jersey (St. Aubin's)	30.04	44	WNW	4	bc q. rhm	29.92	+04	44	42	-1	SW	4	cg m p	4	q. rhm	48	41	0.06	
	Hurst Castle ...	29.94	40	WNW	5	b	29.81	+06	43	42	+5	WSW	5	cp	4	b	46	37	0.02	
	Dungeness ...	29.82	42	WNW	4	c	29.82	+15	40	39	+2	W	4	p	4	c	47	35	0.01	
	North Foreland	29.75	40	WNW	3	og p	29.83	+17	37	36	+1	W	3	og	2	og p	43	34	-	
	London ...	29.87	42	WNW	3	cp rh	29.81	+13	37	36	+2	SSW	2	or	#	q. rh. b	44	34	0.04	
	Oxford ...	29.89	36	W	2	b	29.77	+08	36	35	+1	S	2	r	#	b	45	34	0.05	
	Cambridge ...	29.80	40	SW	2	o	29.77	+14	35	35	-1	SW	1	o	#	o	43	32	0.03	
PENINSULA.	Yarmouth ...	29.71	37	NW	5	c	29.73	+17	35	34	+1	WSW	3	cm	3	c	39	33	-	
	Cuxhaven ...	29.54	30	SE	3	S	29.65	+22	31	30	-1	SW	4	bc	#	S	33	30	-	
	Berlin ...	29.63	35	W	2	o	29.77	+27	30	29	-8	WNW	3	o	#	o	41	30	0.04	
	Wiesbaden ...	*	*	*	*	*	29.94	*	37	35	*	SW	6	o	#	#	45	34	-	
	Munich ...	29.88	32	SW	5	c	29.99	+25	32	30	-8	SW	6	o	#	c	45	30	0.08	
	The Helder ...	29.75	37	NW	4	b	29.75	+20	37	35	-1	WSW	5	e	3	b	39	36	0.04	
	Brussels (p.m.)	*	*	*	*	*	29.90	+19	38	32	-1	SW	4	S	#	b	44	32	0.08	
	Cape Gris Nez	29.84	39	NW	5	c	29.85	+18	41	40	+3	W	4	o	5	c	43	36	0.08	
	Paris ...	29.99	42	W	5	o	30.06	+21	36	35	-2	SSW	3	o	#	o	46	33	-	
	Brest ...	?	45	WNW	3	c	?	?	48	48	+5	SW	5	o	4	o	52	39	-	
FRANCE AND BELGIUM.	Lorient ...	30.15	44	NW	4	bc	29.97	-06	46	43	+5	SW	5	o	4	bc	48	41	0.08	
	Rochefort ...	30.17	46	NW	5	bc	30.09	+03	44	43	-1	S	4	o	#	bc	50	43	-	
	Belfort ...	?	36	WNW	4	r	?	?	33	32	-5	W	3	o	#	r	43	29	0.12	
	Lyons ...	30.13	40	WNW	1	b	30.22	+26	33	32	-9	S	1	c	#	b	50	32	0.04	
	Nice ...	29.98	52	NW	4	b	30.03	+11	42	?	-2	NE	4	b	#	b	63	41	-	
	Perpignan ...	30.19	50	NW	4	b	30.23	+10	34	33	-12	SW	1	b	#	b	64	33	-	
	Biarritz ...	30.26	51	WNW	4	bc	30.16	+01	44	42	-7	S	4	bc	5	bc	52	41	0.04	
	Corunna ...	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	-	
	Lisbon ...	30.32	53	WNW	4	b	30.25	-16	51	49	+1	NNE	3	b	#	b	61	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 Monday, 13<sup>th</sup> Feb<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 heads and feathers refer to forces thus—

— forces above 10; — forces 8 to 10;

— forces 5 to 7; — forces 1 to 4.

— Sea dead calm.

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

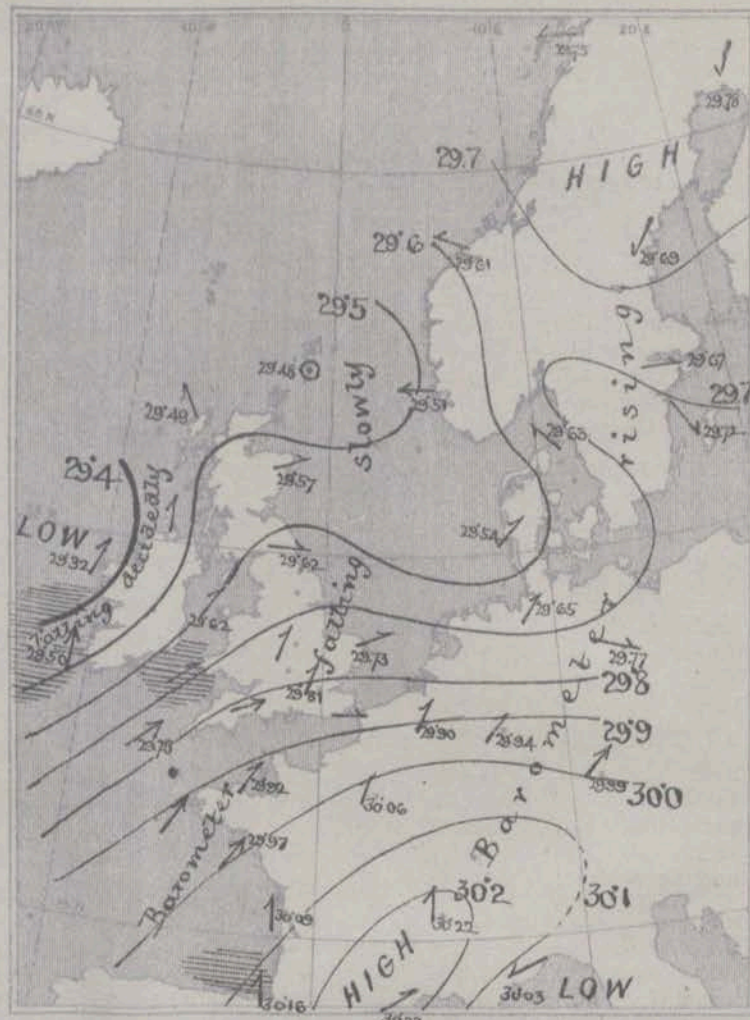
— Rough. — High.

### MEAN HEIGHT OF THE BAROMETER

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

During the 20 Years 1871—1890.

STATIONS.	MEAN READINGS.
Samburgh Head	29.775
Stormway	29.773
Wick	29.854
Nairn	29.811
Aberdeen	29.818
Leith	29.870
Shields	29.900
Spurn Head	29.834
York	29.889
Loughborough	29.963
Ardrossan	29.873
Mullaghmore	29.854
Dunaghadu	29.884
Holyhead	29.914
Liverpool	29.931
Parsonstown	29.906
Valencia	29.919
Rochester Point	29.910
Pembroke	29.917
Sally	29.939
Pravie Point	29.903
Jersey	30.007
Hurst Castle	29.980
Dover	29.983
LONDON	30.000
Oxford	29.983
Cambridge	29.978
Yarmouth	29.961



## 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.

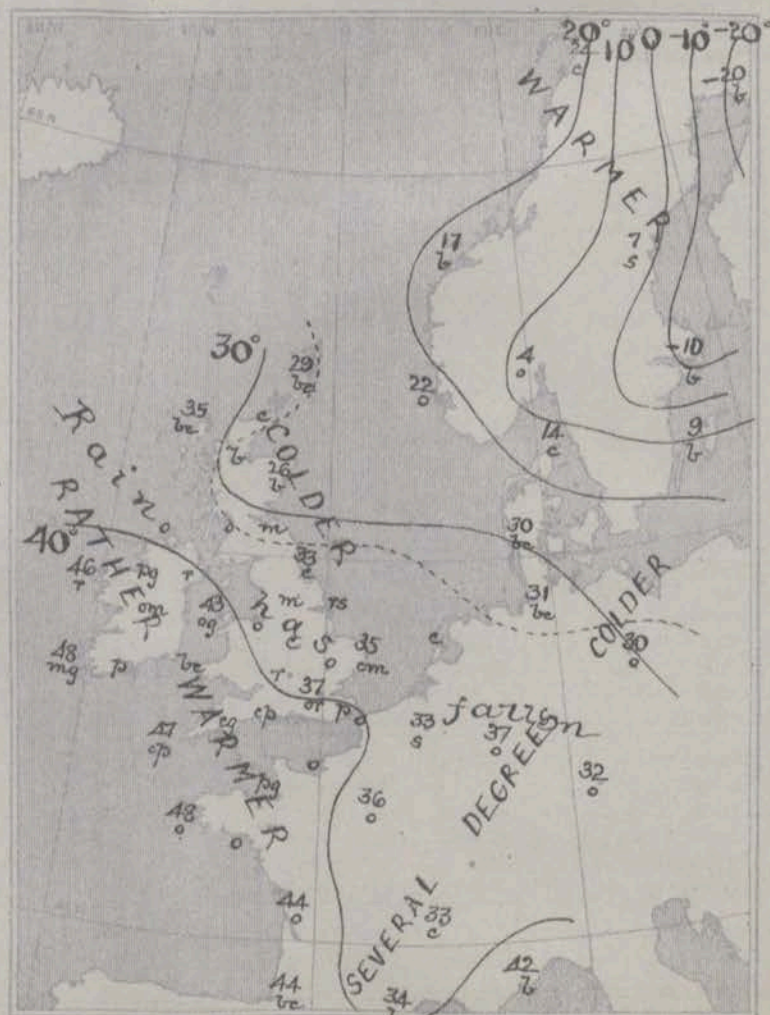
**RAINFALL**—A dotted line separates the districts in which rain has fallen from those where there has been none. Falls of 0.5 in. or more are quoted in figures.

### MEANS OF TEMPERATURE IN SHADE, AND RAINFALL

(For the month of February.)

STATIONS.	TEMPERATURE.				RAINFALL (inches)
	Daily Max.	Daily Min.	at 8 a.m.	Wind.	
Samburgh Head	42.4	34.5	38.6	37.4	3.19
Stormway	43.5	34.6	39.1	38.1	3.88
Wick	43.1	35.2	38.1	36.7	2.04
Nairn	43.1	33.4	37.1	35.4	1.48
Aberdeen	43.2	38.8	37.8	36.7	2.36
Leith	45.7	34.3	38.0	37.1	1.49
Shields	43.8	35.1	38.0	37.0	1.60
Spurn Head	42.8	35.9	38.4	37.0	1.30
York	41.0	35.2	37.5	36.4	1.70
Loughborough	45.3	38.9	37.5	36.4	1.70
Ardrossan	44.0	34.3	39.4	38.2	3.04
Mullaghmore	46.6	38.0	42.0	40.3	3.09
Dunaghadu	45.5	36.0	40.5	39.2	4.12
Holyhead	44.5	38.7	41.5	40.1	2.00
Liverpool	44.0	36.2	39.9	37.3	1.09
Parsonstown	46.0	38.8	39.4	38.1	2.20
Valencia	49.7	40.7	44.6	42.9	4.95
Rochester Point	48.4	39.6	43.1	41.6	4.43
Pembroke	45.6	39.4	42.1	40.9	2.32
Sally	48.0	42.5	45.0	44.4	2.71
Pravie Point	46.8	38.1	41.5	40.3	2.02
Jersey	46.9	39.3	42.3	41.0	2.55
Hurst Castle	46.7	38.7	40.2	39.3	2.25
Dover	48.8	38.1	44.2	43.1	1.96
LONDON	47.0	35.1	40.0	37.4	1.73
Oxford	45.0	34.5	37.3	36.8	1.82
Cambridge	45.5	32.8	37.8	36.2	1.46
Yarmouth	47.6	34.5	38.2	37.8	1.82

NOTE—The Temperature means are for the 20 years 1871-90, the Rainfall means are mainly those for the 35 years 1856-90.



# GENERAL SITUATION AT 8 A.M.

## PRESSURE

Highest, 30.2 ins: and upwards, over Spain and the south of France.

Lowest, 29.4 ins: and less, in a depression lying off the west of Ireland.

Gradients moderate over our western coasts, but slight elsewhere.

Barometer falling in most parts of our islands and also in the west of France, - quickly in Ireland, rising in Scandinavia, Denmark, and Germany.

## TEMPERATURE

Highest, 51° at Limerick, 48° at Valentia Island and West, 47° at Rockville and Lally, 46° at Bournemouth and Lorient, and 45° at Limerick.

Lowest, -20° F. at Haparanda, -10° at Stockholm, -4° at Faeder, 7° at Hunsand, 9° at Uirby, 14° at Rügen, 17° at Christiansund, and 20° at Kain.

Sharp frost was experienced last night in the north of Scotland, the sheltered thermometer falling to 20° both at Wick and Burn, and to 24° at Aberdeen.

## WIND

Moderate to fresh from the SW<sup>nd</sup> over the greater part of England, Ireland, France, Denmark, and the Netherlands, but S<sup>th</sup> at some of the extreme western stations.

E<sup>th</sup> in the west of Norway, NE<sup>th</sup> or N<sup>th</sup> in Sweden, variable in the south of France.

## WEATHER

Cloudy and showery over Ireland and England, dull over the greater part of France, Germany, and the Netherlands, with snow at Brussels, but fine in the south of France.

Fine and bright over the northern parts of Scotland, as well as over the greater part of Scandinavia and Denmark.

In the course of the past 24 hours showers of rain hail or sleet have fallen in most parts of the United Kingdom.

## SEA

Moderate or slight generally, but rather rough at Valentia Island and Bournemouth, as well as on some parts of the French coasts.

## PROBABLE CHANGES IN SYSTEM NOW PREVALENT

The depression off the west of Ireland appears to be moving eastwards, and seems likely to occasion gales from between SW. and NW. on many parts of our western and southern coasts. Rainy weather is probable over Ireland and England, and snow or sleet in Scotland.

## FORECASTS

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

### DISTRICTS.

### FORECASTS.

1	SCOTLAND NORTH	SE <sup>th</sup> winds, freshening and afterwards shifting to the NW <sup>th</sup> ; fine to unsettled and some snow.
1	SCOTLAND EAST	
2	ENGLAND N.E.	Same as N <sup>th</sup> 5.
3	ENGLAND EAST	
4	MIDLAND COUNTIES	
5	ENGLAND SOUTH	S <sup>th</sup> and SW <sup>th</sup> to W <sup>th</sup> winds, increasing in force; squally, rain at times.

### DISTRICTS.

### FORECASTS.

6	SCOTLAND WEST	SW <sup>th</sup> and W <sup>th</sup> to NW <sup>th</sup> strong winds and gales; squally and rainy at first, some improvement later.
7	ENGLAND N.W.	
8	ENGLAND S.W.	
9	IRELAND NORTH	
10	IRELAND SOUTH	

### WARNINGS

The SOUTH CONE is still flying in districts 6 to 10 and part of 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.				
Skudeanaes ...															
Sam-burgh Head															
Stornoway ...	29.64	37	36	W	2	c	3		30.01	52	47	W	5	bcp	5
Aberdeen ...															
Shields ...															
Ardrossan ...															
Malin Head ...	29.75	35	35	W	4	c	4		29.75	45	40	W	6	c	4
Mullaghmore ...															
Behmullet ...	29.89	39	37	W	4	bc	4								
Holyhead ...	29.81	41	39	W	5	c	5		30.15	46	44	W	5	bc	4
Valencia ...															
Scilly ...															
Jersey ...															
Hurst Castle ...															
Dungeness ...															
North Foreland ...															
London ...															
Yarmouth ...															
Rocheport ...															

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

Weather in morning fine over Spain and the S.W. half of France, but very changeable and unsettled in all other parts of Europe - sky cloudy or overcast in most places, temporarily clear at others, with rain in places over the central and western countries, hail in the N.W., snow in the N. showers of snow, hail or cold rain in nearly all parts of W. Europe later, with bright intervals in most places.

Temperature fallen over the British Islands and W. Europe, risen over the central and northern countries. Exceeding 50° at a few of the Mediterranean and Spanish stations only, below 40° over Scotland, England and central Europe, and as low as -34° at Archangel, -32° at Haparanda, -21° at Helsingfors, -11° at Ulsby, +8° at the Scaw, 27° at Wick, 28° at Aberdeen. Tending to reach 50° over Ireland or England later, but touching 52° at Brest, 63° at Nice, and 61° at Perpignan.

Wind light N. to NW. in Scotland, fresh to strong from NW. at our W. and S.W. stations, and over the Bay of Biscay, moderate W. over Germany, variable and light over Russia, NE. over the Finland and the Baltic, E. to SE. in Norway, moderating on the English coast generally during the day and backing to SW. in the W. of Ireland.

Barometer. Highest 30.4 ins. to 30.5 ins. over Spain, the Bay of Biscay, southwest of France and the Mediterranean, and 29.6 ins. and more over Sweden, Finland and the White Sea. Lowest 29.2 ins. to 29.4 ins. in a complex depression lying over the Baltic Provinces and N. Germany; 29.4 ins. and less in another system lying between the Shetlands and Norway and below 29.5 ins. in a V-shaped secondary over the North Sea. The latter disturbances filling up later but a new system approaching our N.W. coasts from the Atlantic.

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

In the course of this week there has been a very marked change in the weather over western and northwestern Europe.

On Monday morning a large anticyclone of considerable intensity covered the whole of the western and central countries, and stretched northwards in the form of a ridge over the North Sea and Scandinavia. Lower pressures prevailed over northern Russia, and still lower over the Atlantic to the north-westward of the United Kingdom. Temperature was below 10° over the northern parts of the Gulf of Bothnia, below 20° over South Germany, and much below the freezing point over our England.

Cyclonic systems soon began to appear in the west and northwest, and as they moved north-eastwards spread over our Islands and their neighbourhood, bringing in a current of S.W. to W. breezes and mild weather which at once broke up the frost over the western countries and brought rain, first to the western and northern coasts, and then to the regions lying further east, while thunder and lightning occurred in the west and northwest. The S.W. and W. winds soon increased in force and the latter part of the week was marked by gales in all parts of the Kingdom - their force being great in many places, but especially at Aberdeen, Hurst Castle, the N. Foreland and the Helder.

## 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 14<sup>th</sup> February.*

1893

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

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

YESTERDAY EVENING.  
(See note at bottom of last page.)

THIS MORNING.  
(See note at bottom of last page.)

PAST 24 HOURS.

STATIONS.

BAROM.	TEMP.	WIND.	FORCE	WEATHER.
Reading at 32° F. and Sea Level.	Dry Bulb.	Direc.	(0 to 12).	

BAROMETER.	SHADE TEMP.	WIND.	FORCE	WEATHER.
Reading at 32° F. and Sea Level.	Dry Bulb.	Direc.	(0 to 12).	

SHADE TEMP.	WEATHER.	MAX.	MIN.	AMOUNT OF RAINFALL.
				(Inches)

SCANDINAVIA.

Haparanda ...	29.50	6	2	0	0	29.02	+1.24	2	2	+1.22	N	2	c	*	0	7	-22	—
Hernösand ...	29.54	12	NW	6	0	29.95	+1.26	12	12	+6	NW	2	c	*	0	7	-2	—
Stockholm ...	29.79	-1	W	2	0	29.86	+1.19	-11	-11	-1	2	0	f	*	0	7	-11	0.16
Wisby ...	29.79	9	NW	4	0	29.71	-0.1	21	19	+1.2	E	4	f	*	0	7	5	—
Bodö ...	29.87	20	E	2	0	29.99	+1.24	19	18	-5	E	4	c	*	0	24	14	—

Christiansund ...	29.66	23	E	4	0	29.71	+1.10	24	23	+7	ENE	6	c	*	0	25	—	—
Skudesnes ...	29.65	23	SE	2	0	29.62	+1.11	23	21	+1	E	6	c	*	0	27	19	—
Christiania Fjord (Færdor)	29.73	6	N	5	0	29.80	+1.05	6	6	+2	N	5	f	*	0	7	4	—
Skagen (The Scaw)	29.89	16	E	6	0	29.64	+1.05	13	13	-1	E	2	c	*	0	18	12	0.43
Faro ...	29.58	27	NW	4	0	29.50	-0.04	24	23	-6	E	2	c	*	0	26	23	—

Sumburgh Head	29.45	33	SE	2	bc	29.36	-1.2	31	30	+2	ENE	5	0	6	chp	24	0.02	—
Stornoway ...	29.23	36	SE	4	0	29.37	-0.53	38	37	+3	SE	6	0	5	bc	31	—	—
Wick ...	29.35	34	SE	4	0	29.10	-0.38	36	36	+13	SE	10	0	8	bc	22	0.08	—
Nairn ...	29.29	34	SE	1	0	29.03	-0.53	36	36	+5	SE	3	0	2	bc	18	0.08	—
Aberdeen ...	29.40	35	SE	4	0	29.10	-0.47	36	35	+10	SE	9	0	8	bc	26	0.12	—

Leith ...	29.31	32	SE	2	T	29.55	-0.63	32	32	+10	E	2	T	*	0	29	0.06	—
Shields ...	29.36	33	SE	2	T	29.03	-0.55	43	44	+12	ENE	2	0	3	T	29	0.06	—
Spurn Head ...	29.44	43	S	3	Tm	29.20	-0.47	44	44	+5	S	4	0	3	Tm	44	0.20	—
York ...	29.42	43	S	1	m	29.06	-0.60	47	46	+12	SE	2	0	*	m	47	0.21	—
Loughborough	29.50	44	SE	4	T	29.22	-0.51	47	46	+12	SE	4	0	*	T	47	0.05	—

BRITISH ISLANDS.

Ardrossan ...	29.21	37	ENE	2	dm	29.82	-1.72	40	40	+4	ENE	2	T	2	T dm	40	1.01	—
Malin Head ...	29.17	43	NW	4	bc	29.66	-0.77	43	43	+5	SE	4	0	2	f	43	0.05	—
Mullaghmore ...	29.19	44	SE	1	bc	29.63	-0.75	45	44	+3	NW	5	0	4	bc	45	0.05	—
Belmullet ...	29.21	45	NW	3	c	29.81	-0.51	42	41	-4	NW	4	0	*	bc	42	0.05	—
Donaghadee ...	29.20	44	NW	4	c	29.80	-0.76	47	47	+5	SE	6	0	4	c	47	0.05	—

Liverpool (Bilston)	29.38	45	SE	3	T	29.04	-0.62	47	46	+11	SE	4	T	2	T	47	0.18	—
Holyhead ...	29.32	46	SE	4	Tgm	29.94	-0.62	47	46	+5	SE	4	Tgm	2	Tgm	47	0.18	—
Parsonstown ...	29.22	48	2	0	T	29.86	-0.61	41	39	0	NW	3	0	*	T	41	0.05	—
Valencia ...	29.22	47	2	0	Tm	29.10	-0.40	46	44	-2	W	6	0	3	Tm	46	1.16	—
Roche's Point	29.21	49	SE	6	T	29.08	-0.51	48	43	-2	W	2	0	4	T	48	0.05	—

Pembroke (St. Ann's Hd.)	29.40	46	SE	7	T	29.05	-0.63	49	48	+4	SE	7	0	7	T	49	0.05	—
Scilly ...	29.52	53	SE	6	c	29.19	-0.53	52	51	+5	SE	7	0	6	c	52	0.15	—
Prawle Point ...	29.61	46	SE	6	0	29.31	-0.50	45	45	+5	SE	7	0	6	0	45	0.05	—
Jersey (St. Aubin's)	29.77	47	SE	4	c	29.31	-0.40	50	48	+6	S	5	0	4	c	50	0.05	—
Hurst Castle ...	29.67	45	SE	6	T	29.37	-0.42	49	48	+6	SE	8	0	5	T	49	0.05	—

Dungeness ...	29.68	45	SE	5	0	29.44	-0.38	45	45	+5	SE	6	0	5	0	45	0.05	—
North Foreland	29.64	45	SE	4	0	29.44	-0.38	47	46	+10	SE	5	0	4	0	47	0.05	—
London ...	29.62	45	SE	3	0	29.39	-0.42	47	47	+11	SE	6	0	4	0	47	0.05	—
Oxford ...	29.52	45	SE	3	T	29.25	-0.48	48	47	+12	S	3	0	3	T	48	0.10	—
Cambridge ...	29.53	45	S	3	0	29.32	-0.40	48	47	+13	S	3	0	*	0	48	0.05	—
Yarmouth ...	29.58	42	SE	3	C	29.36	-0.37	48	44	+10	SE	4	0	4	C	48	0.06	—

GERMANY & HOLLAND.

Cuxhaven ...	29.67	37	W	2	0	29.49	-1.6	38	37	+7	NW	3	0	*	0	37	0.05	—
Berlin ...	29.70	34	NW	2	C	29.62	-1.5	37	36	+7	SE	3	0	*	C	37	0.20	—
Wiesbaden ...	29.80	33	SE	5	0	29.85	-0.05	39	37	+2	SE	2	0	*	0	39	0.04	—
Munich ...	29.80	33	SE	5	0	29.85	-0.05	39	37	+2	SE	2	0	*	0	39	0.04	—
The Helder ...	29.64	37	SE	5	T	29.49	-0.26	40	40	+3	SE	7	0	4	T	40	0.20	—

FRANCE AND BELGIUM.

Brussels (9 a.m.)	29.71	43	SE	5	0	29.64	-0.26	41	41	+8	SE	6	0	*	0	43	0.04	—
Cape Gris Nez	29.71	43	SE	5	0	29.50	-0.38	42	42	+1	SE	5	0	5	0	43	0.04	—
Paris ...	29.71	44	SE	5	0	29.76	-0.20	42	41	+6	SE	5	0	5	0	44	0.04	—
Brest ...	29.82	49	SE	5	0	29.76	-0.20	51	50	+3	SE	5	0	5	0	46	0.04	—
Lorient ...	29.82	48	SE	6	0	29.60	-0.37	51	50	+5	SE	7	0	5	0	46	0.04	—

Rochefort ...	29.88	46	SE	4	0	29.85	-0.24	51	50	+7	NW	5	0	0	0	46	0.04	—
Belfort ...	29.88	46	SE	4	0	29.85	-0.24	51	50	+7	NW	5	0	0	0	46	0.04	—
Lyons ...	29.82	40	S	1	0	29.23	+0.01	32	31	-1	SE	1	0	0	0	40	—	—
Nice ...	29.82	40	S	1	0	29.23	+0.01	32	31	-1	SE	1	0	0	0	40	—	—
Perpignan ...	29.82	40	S	1	0	29.23	+0.01	32	31	-1	SE	1	0	0	0	40	—	—
Biarritz ...	29.82	40	S	1	0	29.23	+0.01	32	31	-1	SE	1	0	0	0	40	—	—

SPAIN.

Cornwall ...	29.82	40	S	1	0	29.23	+0.01	32	31	-1	SE	1	0	0	0	40	—	—
Lisbon ...	29.82	40	S	1	0	29.23	+0.01	32	31	-1	SE	1	0	0	0	40	—	—

For Explanation of Columns see bottom of last page.

For Explanation of Columns, see bottom of last page.

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

# WEATHER CHARTS

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

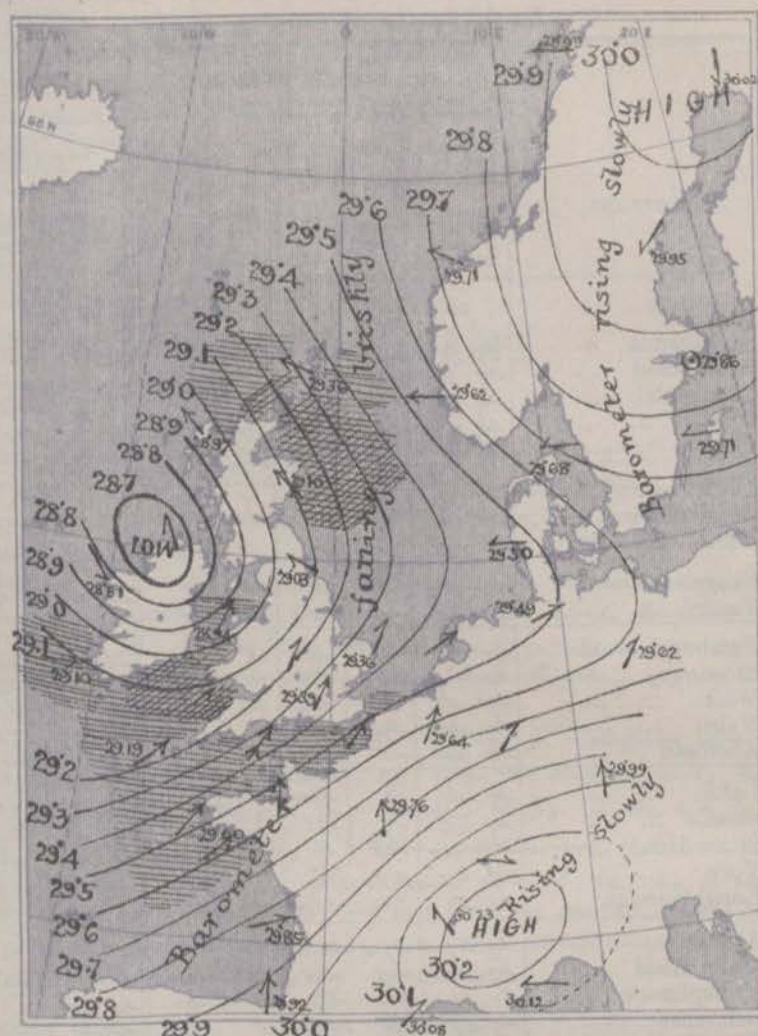
**SEA DISTURBANCE**—Where considerable, is shown thus:—

— = Rough. — = High.

## MEAN HEIGHT OF THE BAROMETER

at 8.0 a.m. for the month of February  
During the 20 Years: 1871—1890.

STATIONS.	MEAN READINGS.
Sumburgh Head	29.775
Stornoway	29.774
Wick	29.894
Nairn	29.814
Aberdeen	29.818
Leith	29.870
Shields	29.906
Spurn Head	29.934
York	29.930
Loughborough	29.965
Ardrossan	29.873
Mullaghmore	29.851
Donaghadee	29.884
Holyhead	29.911
Liverpool	29.934
Parsonstown	29.906
Valencia	29.919
Roche's Point	29.916
Pembroke	29.937
Silly	29.950
Prawle Point	29.993
Jersey	30.007
Hurst Castle	29.980
Dover	29.985
LONDON	29.930
Oxford	29.985
Cambridge	29.979
Yarmouth	29.964



## 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.

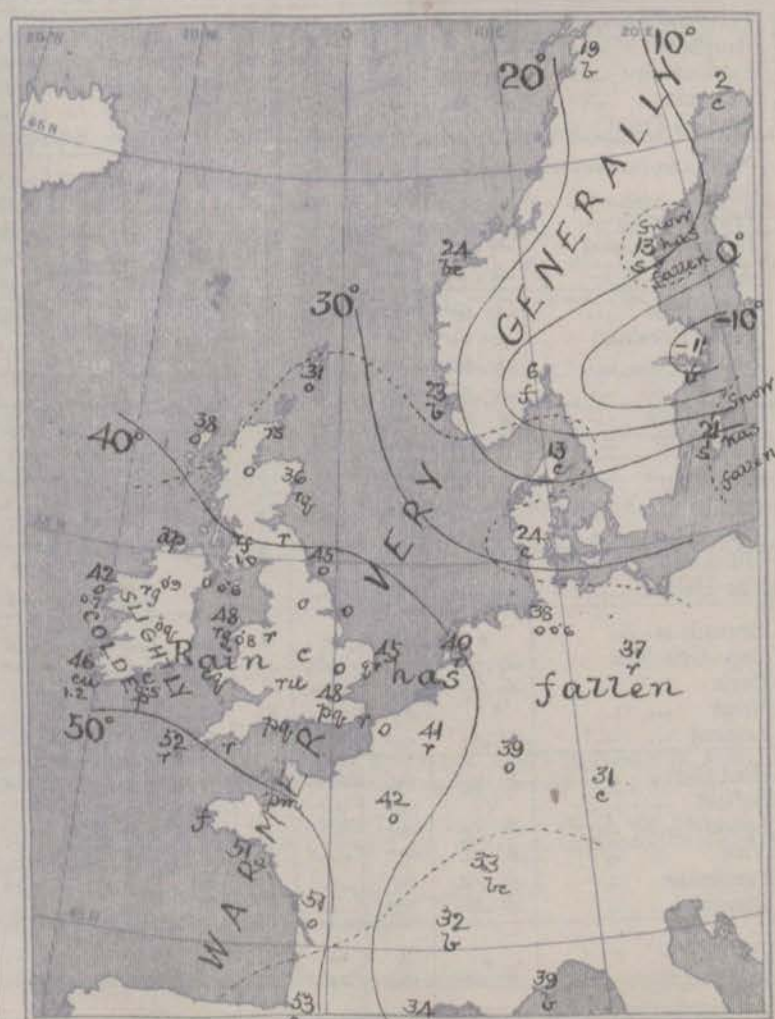
**RAINFALL**—A dotted line separates the districts in which rain has fallen from those where there has been none. Falls of 0.5 in. or more are quoted in figures.

### MEANS OF TEMPERATURE IN SHADE, AND RAINFALL

(For the month of February.)

STATIONS.	TEMPERATURE.				RAINFALL. (Inches.)
	Daily Max.	Daily Min.	Dry.	Wet.	
Sumburgh Head	42.4	34.6	38.5	37.4	3.19
Stornoway	43.5	34.6	39.1	38.1	3.89
Wick	43.1	33.2	38.1	36.7	2.04
Nairn	43.4	33.4	37.1	35.4	1.48
Aberdeen	43.2	33.8	37.3	35.7	2.30
Leith	45.7	34.3	38.6	37.1	1.45
Shields	43.8	35.1	38.6	37.3	1.60
Spurn Head	42.8	35.9	38.4	37.6	1.36
York	44.6	33.9	37.5	36.4	1.70
Loughborough	45.6	33.9	37.5	36.4	1.78
Ardrossan	44.6	33.3	39.4	38.2	3.04
Mullaghmore	46.6	38.6	42.0	40.3	3.09
Donaghadee	45.5	36.9	40.3	39.3	2.42
Holyhead	46.5	38.7	41.5	40.1	2.60
Liverpool	44.6	36.2	38.9	37.3	1.69
Parsonstown	46.9	35.6	39.4	38.1	2.20
Valencia	49.7	40.7	41.0	42.0	4.05
Roche's Point	48.4	39.6	43.1	41.6	4.43
Pembroke	45.5	39.4	42.1	40.9	2.82
Silly	48.9	42.6	46.0	44.4	2.71
Prawle Point	46.8	38.1	41.5	40.5	2.02
Jersey	46.9	39.3	42.3	41.0	2.55
Hurst Castle	45.7	36.7	40.3	39.3	2.26
Dover	44.4	36.1	39.2	38.1	1.95
LONDON	45.5	35.1	38.6	37.4	1.73
Oxford	45.0	34.9	37.9	36.8	1.92
Cambridge	45.5	32.8	37.3	36.2	1.46
Yarmouth	44.6	34.3	38.2	37.3	1.82

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



# GENERAL SITUATION AT 8 A.M.

## PRESSURE

Highest, 30.2 in. and upwards, over the southern parts of France; 30.0 in. and upwards, in the north of Sweden.  
 Lowest, 29.7 in. and less, in a very deep depression lying over the north of Ireland.  
 Gradients steep over the whole of our Islands and France, but moderate or slight over Scandinavia, Denmark, and the North Sea.  
 Barometer falling briskly in most parts of the United Kingdom and France, but rising again at Valence Island.

## TEMPERATURE

Highest, 53° at Biarritz, 52° at Peilly, 51° at Lorient and Rochefort, 50° at Jersey, and 49° at Ventnor, Vieux Point, and Hunt Castle.  
 Lowest, -11° Fahr. at Stockholm, +2° at Haparanda, 6° at Trondheim, 13° at Helsingfors and Riga, 19° at Rode, and 21° at Wiby.  
 A considerable rain has taken place over Great Britain, but a slight fall in the west and south of Ireland.

## WIND

W<sup>4</sup> in Ireland, SW<sup>4</sup> or S<sup>4</sup> over England, France, Germany, and the Netherlands, SE<sup>4</sup> in Scotland, and E<sup>4</sup> in Norway and Denmark.  
 Strong in force in most places, with a fresh gale in the English Channel, and with a strong to whole gale in the northeast of Scotland.

## WEATHER

Bull, squally, and rainy in nearly all parts of the United Kingdom, and also over the Netherlands.  
 Bull also in Germany, and the west and north of France; fine on the eastern shores of North Sea, but snow falling at some of the Swedish stations.  
 Fine yesterday rain has fallen in most parts of our Islands, the largest amounts being 1.2 in. at Valence Island, 1.0 in. at Androsman, and 0.9 in. at Malapmore.

## SEA

Very high off the northeast of Scotland, high at Ventnor, and rough or rather so on all but our east coasts.

## PROBABLE CHANGES IN SYSTEM NOW PREVALENT

The deep depression over the north of Ireland seems likely to travel slowly in a northeasterly direction.  
 Gales, and squally, showery weather are probable in all parts of the United Kingdom.

## FORECASTS

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

### DISTRICTS.

### FORECASTS.

† 0	SCOTLAND NORTH	E <sup>4</sup> and SE <sup>4</sup> gales, moderating later; squally, with rain or sleet.
† 1	SCOTLAND EAST	SE <sup>4</sup> and S <sup>4</sup> gales, moderating later; squally, showery.
† 2	ENGLAND N.E.	
† 3	ENGLAND EAST	S <sup>4</sup> and SW <sup>4</sup> strong winds and gales; squally, showery.
† 4	MIDLAND COUNTIES	
† 5	ENGLAND SOUTH	

### DISTRICTS.

### FORECASTS.

† 6	SCOTLAND WEST	Wind shifting to the W <sup>4</sup> or NW <sup>4</sup> and increasing in force; squally, showery.
† 7	ENGLAND N.W.	SW <sup>4</sup> to W <sup>4</sup> strong winds and gales; squally, showery.
† 8	ENGLAND S.W.	
† 9	IRELAND NORTH	W <sup>4</sup> to NW <sup>4</sup> strong winds and gales; squally, showery.
† 10	IRELAND SOUTH	

### WARNINGS

At 3.30 pm yesterday to districts 3 and 5; at 7.15 pm to districts 6 to 10, and at 10 am today to districts 1, 2, and part of 0. 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.				
Skudesnes ...	29. 60	27	24	E	2	bc	2	Valencia ...	29. 32	23	23	08W	6	7m	6
Sumburgh Head ...	29. 44	34	33	E	0	chp	4	Scilly ...	29. 64	51	49	08W	6	c	4
Stornoway ...	29. 34	36	35	SE	4	bc	4	Jersey ...	29. 81	48	45	SW	4	cgm	3
Aberdeen ...	29. 49	37	31	S	2	b	3	Hurst Castle ...	29. 73	45	44	SW	5	bc	4
Shields ...	29. 50	37	32	08E	2	0	2	Duogeness ...	29. 72	46	44	W	6	cgp	4
Ardrossan ...	29. 37	38	37	ENE	2	7	2	North Foreland ...	29. 72	49	45	1W1W	2	c	3
Malin Head ...	29. 5	42	42	S	5	0	2	London ...	29. 64	49	48	08W	4	c	*
Mullaghmore ...	29. 20	47	47	08W	5	bc	4	Yarmouth ...	29. 65	41	40	W1W	3	ofdp	3
Belmullet ...	29. 25	53	47	W1W	2	b	4	Rocheport ...	29. 04	47	47	W	4	c	*
Holyhead ...	29. 45	40	45	08W	4	7mg	4								

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

Weather in morning fine and bright over the Mediterranean and south-western Europe, as well as in many parts of Sweden, Norway, and Scotland, cloudy or overcast elsewhere, with rain in many parts of Ireland, England, and the Channel, snow at St. Petersburg and Kieps. Very unsettled over the United Kingdom later, with large falls of rain in Ireland and the west of Scotland (12 in. at Valencia, 1.0 in. at Ardrossan, 0.8 in. at Holyhead), snow, sleet, and hail at our northern stations.

Temperature changing irregularly in most places, but rising rapidly over the north of Russia and in some parts of Sweden, morning readings 50° and more on several parts of the Spanish coast and the southern shore of the Mediterranean, and exceeding 45° on most of the Atlantic coasts, France, and the British Islands, much lower elsewhere, but especially in the north. Lowest of all 17-20° F. at Haparanda, -10° at Stockholm, +1° at Archangel, 5° at St. Petersburg, 9° at Murty, (2) 20° at Narvi, 23° at Wiek, 26° at Aberdeen. Rising later to between 50° and 53° at many of our southern stations, to 54° at Bunnity, and 55° at Lisbon, but not reaching 40° in the north and east of Scotland, though rising there considerably.

Wind light and anticyclonic both over the south-western and extreme northern parts of Europe, light but cyclonic over Finland and the Baltic Provinces; fresh to moderate from SW. over Western Germany, the north of France, and the greater part of England, S. on our extreme west and north-west coasts. Increasing in force from SW. at our southern stations later, and becoming SE. in Scotland.

Barometer highest 30.3 in. to 30.0 in. over Spain, Algeria and the greater part of France, 29.7 in. and more over the northern parts of Scandinavia. Lowest, 29.4 in. and less, over the north-west of Ireland and adjacent parts of the Atlantic; 29.6 in. and less, in a shallow disturbance over the Gulf of Ireland, 30.0 in. and less, in another over the Gulf of Genoa and the northern half of Corsica. Falling decidedly over England and Ireland all day.

### 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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" Weekly " " " £1 10 0 "

# DAILY WEATHER REPORT

for 8 a.m. on Wednesday, 15<sup>th</sup> February, 1893

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

STATIONS.		YESTERDAY EVENING. (See note at bottom of last page.)						THIS MORNING. (See note at bottom of last page.)										PAST 24 HOURS.			
		BAROM.		TEMP.		WIND.		BAROMETER.		SHADE TEMP.			WIND.				SHADE TEMP.		Amount of Rainfall.		
		Reading at 32° F. and Sea Level.	Dry Bulb.	Dirac.	Force (0 to 12).	Weather.	Reading at 32° F. and Sea Level.	Change since Yesterday Morn.	Dry Bulb.	Wet Bulb.	Change in dry since Yesterday.	Dirac.	Force (0 to 12).	Weather.	Sea (0 to 9).	Weather.	Max.	Min.			
Ins. °																					

For Explanation of Columns, see bottom of last page. Erratum:—The Min. Temperature in yesterday's Report for London should read 37. Received too late for insertion in Charts on next page.

# WEATHER CHARTS

for 8 a.m. on Wednesday, 15<sup>th</sup> February, 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.

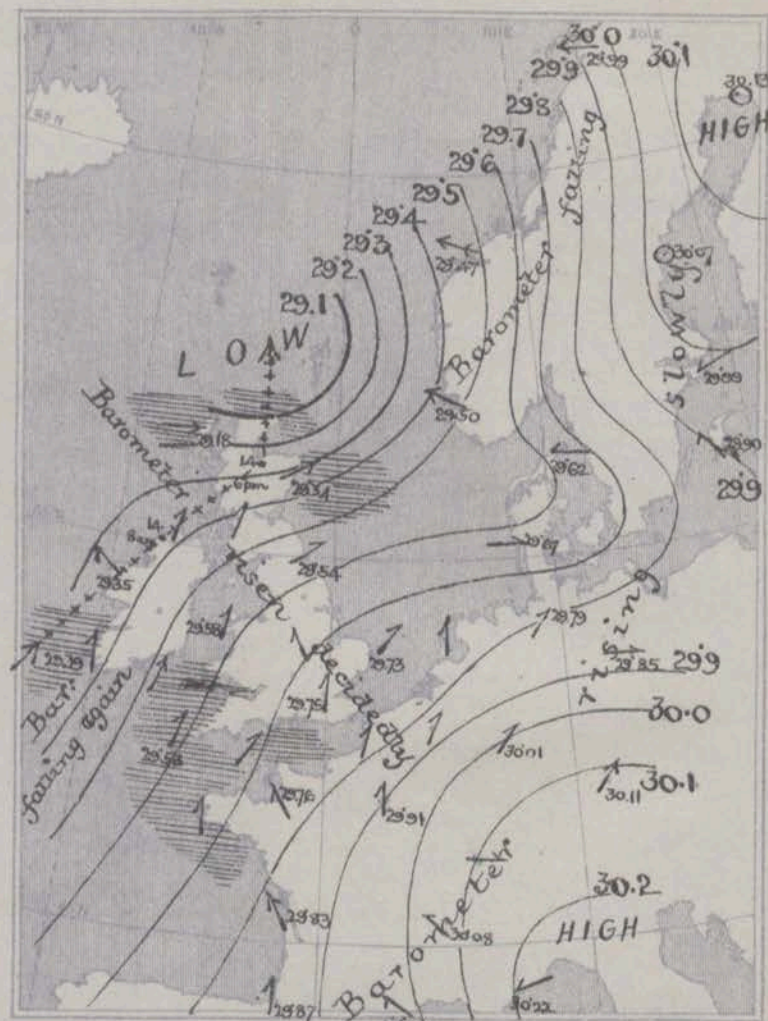
**SEA DISTURBANCE**—Where considerable, is shown thus:

— Rough. — High.

### MEAN HEIGHT OF THE BAROMETER

at 8.0 a.m. for the month of February.  
During the 29 Years: 1871—1900.

STATIONS.	MEAN READINGS.
Sumburgh Head	29.775
Stormway	29.773
Wick	29.834
Nairn	29.814
Aberdeen	29.815
Leith	29.870
Shields	29.906
Spurn Head	29.934
York	29.939
Loughborough	29.963
Antrossan	29.873
Mullaghmore	29.854
Donaghadee	29.884
Holyhead	29.914
Liverpool	29.934
Parsonstown	29.906
Valencia	29.919
Roche's Point	29.916
Pembroke	29.937
Scilly	29.959
Præstø Point	29.993
Jersey	29.907
Hurst Castle	29.986
Dover	29.983
LONDON	29.989
Oxford	29.985
Cambridge	29.976
Yarmouth	29.964



## 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.

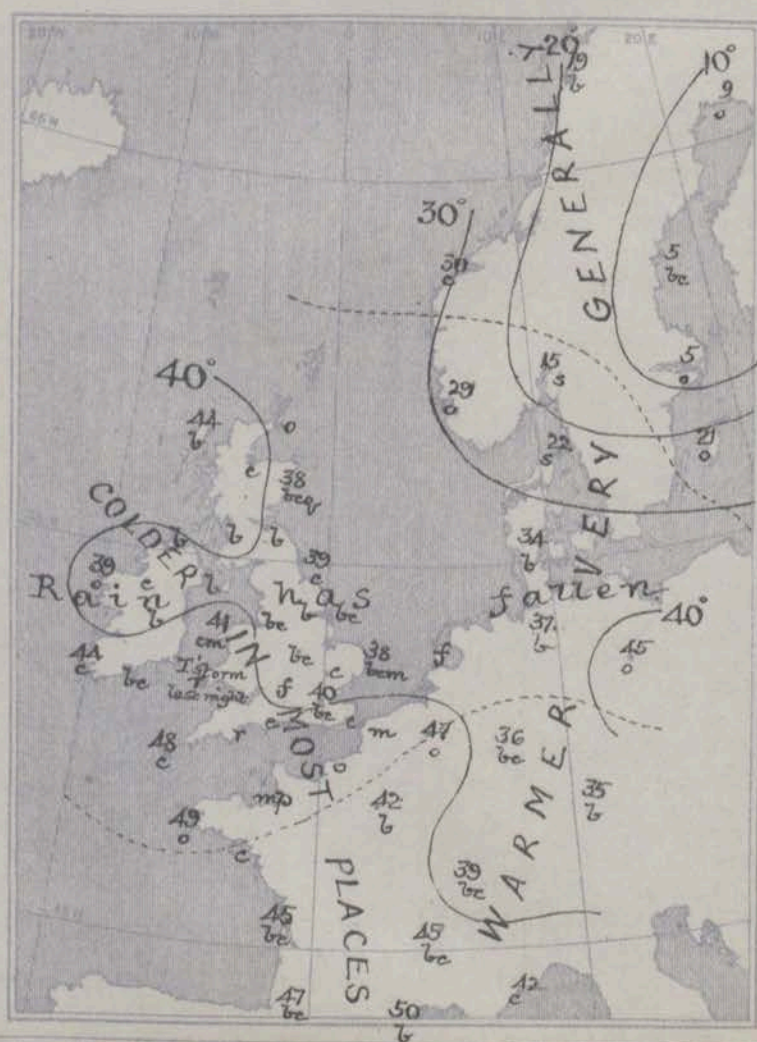
**RAINFALL**—A dotted line separates the districts in which rain has fallen from those where there has been none. Falls of 0.5 in. or more are quoted in figures.

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

(For the month of February.)

STATIONS.	TEMPERATURE.				RAINFALL (inches)
	Daily Max.	Daily Min.	Dry.	Wet.	
Sumburgh Head	42.4	34.6	38.5	37.4	0.19
Stormway	43.5	34.6	39.1	38.1	2.86
Wick	43.1	33.2	38.1	36.7	2.04
Nairn	43.4	33.4	37.1	35.4	1.48
Aberdeen	43.2	33.8	37.3	35.7	2.36
Leith	45.7	34.5	38.6	37.1	1.45
Shields	43.8	34.1	38.6	37.3	1.50
Spurn Head	42.3	35.9	38.4	37.6	1.80
York	41.6	35.9	37.5	36.4	1.70
Loughborough	45.3	33.9	37.5	36.4	1.78
Antrossan	41.6	35.2	39.4	38.2	3.04
Mullaghmore	46.6	38.6	42.0	40.3	3.09
Donaghadee	45.6	34.9	40.3	39.3	2.42
Holyhead	49.5	38.7	41.5	40.1	2.69
Liverpool	44.6	36.2	38.9	37.3	1.69
Parsonstown	46.9	35.6	39.4	38.1	2.20
Valencia	49.7	40.7	44.0	42.9	4.96
Roche's Point	48.4	39.6	43.1	41.6	4.43
Pembroke	45.6	39.4	42.1	40.9	2.84
Scilly	48.9	42.8	46.0	44.4	2.71
Præstø Point	46.8	38.1	41.5	40.5	2.02
Jersey	46.0	39.3	42.3	41.0	2.55
Hurst Castle	45.7	38.7	40.3	39.3	2.25
Dover	44.4	36.1	39.2	38.1	1.96
LONDON	45.3	35.1	38.6	37.4	1.73
Oxford	45.0	34.9	37.9	36.8	1.92
Cambridge	45.6	32.8	37.3	36.2	1.46
Yarmouth	43.6	34.5	38.2	37.3	1.83

**NOTE.**—The Temperature means are for the 29 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 ins: and upwards, in the southeast of France; 30.1 ins: and upwards in the north of Sweden.

Lowest, 29.1 ins: and less, in a depression lying off the north of Scotland.

Gradients rather steep over Norway the northern parts of the North Sea and the extreme north of Scotland, moderate or slight elsewhere.

Barometer falling over Norway and also in Ireland, but rising in nearly all other parts of Western Europe.

## TEMPERATURE

Highest, 51° at Linton, 50° at Lerpignon, 49° at Brest and Lorient, 48° at Skilly, and Jersey, 47° at Binnity, and 46° at Hunt Castle.

Lowest, 5° at Haparanda and Stockholm, 9° at Haparanda, 19° at Rode, 22° at Skagen, and 23° at Skutumpah.

During yesterday the thermometer rose to between 50° and 55° at most of the English stations.

## WIND

Light or moderate from the S<sup>W</sup> over the greater part of Ireland, England, and France, and from the S<sup>W</sup> in Germany.

Strong from the W<sup>W</sup> in the north of Scotland; strong to a gale from the E<sup>W</sup> or S<sup>E</sup> in the west of Norway.

Calm over the northern parts of Sweden.

## WEATHER

Fair or fine in most parts of Western Europe, but rainy at some of our own southwestern stations.

Dull in Sweden and the south of Norway, with snow at Trondheim and also at the Polar.

Rain fell yesterday in nearly all parts of our Islands, and snow in the north of Scotland.

Thunder and lightning occurred last night at Pembroke, and an Aurora was seen at Rock Point.

## SEA

Rough off the north and northeast of Scotland, and rather rough on many parts of our south and southwest coasts, as well as off the northwest of France.

## PROBABLE CHANGES IN SYSTEM NOW PREVALENT

Another depression is approaching Ireland from the southwestward, and increasing S<sup>W</sup> winds are therefore probable on our western coasts, with rain in most parts of the United Kingdom.

## FORECASTS

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

### DISTRICTS.

### FORECASTS.

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

Wind backing to the S<sup>W</sup> and increasing in force; fair to unsettled and some rain.

Same as No 5

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

### DISTRICTS.

### FORECASTS.

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

S<sup>W</sup> and S<sup>W</sup> winds, increasing in force; unsettled, some rain

### WARNINGS

The SOUTH CONE is still flying on all coasts excepting part of district 1.

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

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

# YESTERDAY'S 2 P.M. REPORTS.

	BAR.	THER.		WIND	F.	WEA.	SEA.		BAR.	THER.		WIND	F.	WEA.	SEA.
		Dry.	Wet.	Dirac.						Dry.	Wet.	Dirac.			
Skudesnaes ...	29.51	28	25	ESE	6	c	2	Valencia ...	29.28	48	45	hsw	6	cq	6
Sumburgh Head ...	29.17	32	30	ESE	7	o	4	Scilly ...	29.34	50	47	w	5	c	6
Stornoway ...	28.74	35	35	SE	7	s	5	Jersey ...	29.50	62	49	SSW	5	ogp	4
Aberdeen ...	28.75	40	40	SE	10	otsq	q	Hurst Castle ...	29.35	49	48	SW	8	cq	6
Shields ...	28.94	47	43	SW	7	c	3	Dungeness ...	29.41	48	47	SW	6	r	5
Ardrossan ...	28.71	45	44	hsw	8	r	6	North Foreland ...	29.37	51	50	SSW	7	c	6
Malin Head ...	28.83	42	40	W	5	o	4	London (Westminster) ...	29.30	53	51	SSW	7	otsq	*
Mullaghmore ...	28.99	43	42	W	6	c	5	Yarmouth ...	29.28	50	49	SSW	5	ogj	4
Belmullet ...	29.03	45	41	SW	5	ogprh	4	Rochefort ...	29.82	53	48	S	5	c	*
Holyhead ...	29.10	46	44	SW	5	cq	5								

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

Weather in morning fine and bright as a whole over southern and southern Europe, as well as in the west of Norway; very dull, rough and unsettled over the British Islands and their neighbourhood, with rain at many stations, and a threatening appearance generally; cloudy or overcast over central and northern Europe, with snow in many localities. Rainfall general over our Islands and north of France later with snow or hail in the north and northwest—but amounts not large; thunder and lightning at Penzance; fine over the southern half of France.

Temperature risen fast over the British Isles, northern and northern Europe, fallen decidedly over Russia, slightly over southern Europe. Morning readings exceeding 50° at a few Mediterranean stations, as well as on the shores of the Bay of Biscay and at Seilly, and above 45° over the greater part of Ireland and England; exceeding the freezing point over Germany, but as low as -11° F. at Stockholm. 0° here at Riga, 1° at Uleaborg, 4° at Petersburg, 6° at Yanders, 19° at Abisko, 23° at Skudesnaes. Rising to between 50° and 54° over England and the west and south of France later and to 64° at Biarritz. Preceding night colder.

Wind light and variable over southern, eastern, and northern Europe; fresh to strong from the SW over the Bay of Biscay and France; SW, strong to a gale, in the two Channels, W and NW strong in Ireland. SE, a "whole gale" in the east of Scotland; E, strong, in the west of Norway. The SW gale in the south increasing in force during morning, and the SE gale in the north blowing with great violence (force 11) for some hours, but subsequently veering from SW over Aberdeenshire and subsiding.

Barometer highest (1) 30.2 ins. and more over the Mediterranean, southern, and southeastern Europe; (2) 30.0 ins. and more to 29.8 ins. over Lapland, Finland, and Sweden. Lowest, 28.7 ins. and less in a deep depression over the north of Ireland and below 29.6 ins. in a V spreading eastwards to Denmark. Main disturbance moving northwards 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.

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# DAILY WEATHER REPORT

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

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

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STATIONS.	YESTERDAY EVENING. (See note at bottom of last page.)						THIS MORNING. (See note at bottom of last page.)										PAST 24 HOURS.			
	BAROM.		TEMP.		WIND.		BAROMETER.		SHADE TEMP.			WIND.			SHADE TEMP.		Amount of Rainfall.			
	Reading at 32° F. and Sea Level.	Dry Bulb.	Direc.	Force (0 to 12).	Weather.	Reading at 32° F. and Sea Level.	Change since Yesterday Morn.	Dry Bulb.	Wet Bulb.	Change in dry since Yesterday.	Direc.	Force (0 to 12).	Weather.	Sea (0 to 9).	Weather.	Max.		Min.		
SCANDINAVIA.	Haparanda ...	30.16	4	Z	0	0	30.21	+0.08	6	6	-3	Z	0	0	#	0	12	5	-	
	Hernösand ...	30.17	5	Z	0	bc	30.26	+0.19	1	1	-4	Z	0	f	#	bc	16	0	0.04	
	Stockholm ...	30.04	12	E	2	S	30.23	+0.24	11	11	+6	NE	2	0	#	S	14	-2	0.04	
	Wisby ...	29.98	24	SSE	4	0	30.17	+0.27	28	28	+4	N	4	0	#	0	28	10	0.39	
	Bodö ...	29.99	18	E	3	b	29.89	-0.10	19	17	0	E	3	0	#	0	21	14	-	
	Christiansund...	29.61	34	SE	7	c	29.84	+0.37	38	33	+8	SSW	1	0	3	c	38	30	-	
	Skudesnaes ...	29.84	34	SSE	8	0	29.92	+0.42	33	32	+4	SSE	2	0	3	S.0	34	29	-	
	Christiania Fjord (Fjord)	30.00	21	NHE	3	0	30.16	+0.36	12	12	-3	NHE	3	f	1	0	17	10	-	
	Skagen (The Scaw)	30.03	24	ESE	1	m	30.11	+0.49	28	27	+6	ESE	2	0	0	m	28	21	-	
	Fanö ...	29.96	33	SE	1	0	29.95	+0.28	34	34	0	ESE	4	m	#	0	34	32	-	
BRITISH ISLANDS.	Sumburgh Head	29.38	43	W	5	b	29.34	+0.16	42	41	+3	SE	4	0	4	b	46	38	-	
	Stornoway ...	29.52	40	W	2	c	29.41	+0.29	42	42	+4	SE	4	0	6	c	45	37	0.05	
	Wick ...	29.52	40	SW	1	b	29.38	+0.15	41	39	+1	SW	2	0	1	b	46	33	-	
	Nairn ...	29.63	40	SSE	4	bc	29.46	+0.12	42	41	+4	SSE	3	0	4	bc	47	38	0.11	
	Leith ...	29.59	38	SSE	1	c	29.40	-0.04	41	40	+3	ESE	1	0	#	c	49	36	0.02	
	Shields ...	29.65	44	SE	3	c	29.46	-0.08	45	44	+6	SSE	3	0	3	c	49	37	0.02	
	Spurn Head ...	29.69	42	SE	4	0	29.53	-0.15	41	40	+4	SSE	4	0	4	b.or	45	36	0.05	
	York ...	29.68	45	SE	2	0	29.50	-0.17	44	43	+6	SE	1	0	#	0	50	37	0.10	
	Loughborough	29.68	45	ESE	1	T	29.53	-0.17	43	42	+6	SE	2	0	#	T	46	36	0.16	
	Ardrossan ...	29.55	43	SE	4	cm	29.36	-0.12	42	41	+1	E	1	0	1	0	46	39	0.01	
GERMANY & HOLLAND.	Malin Head ...	29.38	42	SSE	6	bc	29.23	-0.16	42	41	+5	SSE	4	0	3	c	45	36	0.01	
	Mullaghmore ...	29.37	44	SE	5	ogp	29.25	-0.16	40	39	0	SSW	3	0	3	c	47	39	0.12	
	Belmullet ...	29.31	42	E	4	0	29.26	-0.09	41	38	+2	SW	3	0	0	ogp	44	36	0.37	
	Donaghadee ...	29.53	42	SW	4	b	29.36	-0.17	44	43	+9	SSW	5	0	3	ogp	47	34	0.03	
	Liverpool (Bidston)	29.61	44	SE	3	c	29.44	-0.20	45	43	+6	SE	3	0	1	c	48	39	0.07	
	Holyhead ...	29.56	45	SSE	3	cq	29.38	-0.20	44	43	+3	S	4	0	3	cq	47	41	0.03	
	Parsonstown ...	29.41	43	SE	1	bc	29.32	-0.16	38	37	+3	Z	0	0	#	bc	44	35	-	
	Valencia ...	29.31	43	S	4	chrp	29.38	-0.01	40	38	-4	SW	3	0	4	chrp	48	37	0.62	
	Roche's Point	29.41	48	S	5	bc	29.37	-0.11	41	40	-4	W	3	0	4	bc	50	40	0.10	
	Pembroke (St. Ann's Hd.)	29.52	46	SE	4	c	29.39	-0.20	44	44	+1	S	3	0	6	c	47	41	0.24	
FRANCE AND BELGIUM.	Scilly ...	29.49	49	SSE	6	or	29.40	-0.18	44	42	-4	SW	5	0	5	c	52	42	0.20	
	Prawle Point ...	29.60	46	S	3	T	29.49	-0.19	44	44	-1	SSW	4	0	3	c	47	42	0.36	
	Jersey (St. Aubin's)	29.72	49	SE	2	bc	29.58	-0.18	47	45	-1	SSW	5	0	4	g.p. bc	52	46	0.10	
	Hurst Castle ...	29.66	47	SSE	5	c	29.55	-0.17	47	46	+1	SSW	5	0	4	p.c	49	45	0.04	
	Dungeness ...	29.72	47	SSW	3	bc	29.62	-0.14	46	44	+1	S	4	0	3	c, bc	49	44	0.01	
	North Foreland	29.73	46	S	1	cu	29.63	-0.12	45	44	+4	SSE	1	0	3	f, bc	48	40	-	
	London ...	29.72	48	SW	2	c	29.67	-0.18	47	45	+7	S	3	0	#	c, bc	50	40	0.01	
	Oxford ...	29.65	46	SSE	1	0	29.52	-0.21	45	43	+7	SE	1	0	#	0, T	48	38	0.05	
	Cambridge ...	29.72	46	S	2	0	29.57	-0.20	45	45	+10	S	2	0	#	0	48	39	0.28	
	Yarmouth ...	29.76	41	SSE	4	c	29.63	-0.10	41	40	+3	S	4	0	3	0, c	42	36	0.02	
PENINSULA.	Cuxhaven ...	29.98	40	SSW	2	c	29.92	+0.13	38	37	+1	ESE	2	0	#	c	45	36	-	
	Berlin ...	30.06	45	SW	1	0	30.08	+0.23	39	38	-6	SE	2	0	#	0	48	37	-	
	Wiesbaden ...	30.01	45	SW	1	#	30.01	0.00	38	37	+2	SW	2	0	#	#	50	36	-	
	Munich ...	30.12	37	SW	1	b	30.07	-0.04	31	30	-4	SE	4	0	#	b	50	30	-	
	The Helder ...	29.89	42	ESE	1	b	29.81	-0.01	30	38	+4	SSE	1	0	1	b	45	34	-	
	Brussels (9 a.m.)	29.82	43	39	-4	SSE	4	0	#	b	55	42	-							
	Cape Gris Nez	29.74	50	SE	3	bc	29.64	-0.12	46	45	+2	SSE	4	0	3	b	54	41	-	
	Paris ...	29.83	50	SSE	2	b	29.79	-0.12	42	40	0	S	2	0	#	b	58	41	-	
	Brest ...	29.83	50	S	4	T	29.79	-0.12	45	44	-4	SW	4	0	5	T	49	43	0.43	
	Lorient ...	29.61	50	SSE	5	c	29.60	-0.13	48	44	-1	SW	5	0	5	c	54	46	0.12	
GERMANY & HOLLAND.	Rocheport ...	29.74	52	SSW	3	c	29.78	-0.05	46	46	+1	W	5	0	#	c	57	45	0.04	
	Belfort ...	29.95	52	E	2	bc	29.97	-0.11	51	33	-3	E	3	0	#	bc	56	26	-	
	Lyons ...	29.98	52	S	5	b	29.97	-0.11	51	43	+6	S	5	0	#	b	58	45	-	
	Nice ...	30.22	46	SE	1	b	30.23	+0.01	42	38	0	NE	3	0	3	b	54	39	-	
	Perpignan ...	29.95	54	S	4	b	30.01	+0.02	51	48	+1	S	3	0	#	b	60	50	-	
	Biarritz ...	29.75	59	S	3	c	29.90	+0.03	49	46	+2	W	4	0	5	c	36	45	0.16	
	Corunna ...	29.92	49	SSW	4	bc	30.17	+0.37	47	44	-4	N	3	0	#	bc	52	45	0.41	
	Lisbon ...	29.92	49	SSW	4	bc	30.17	+0.37	47	44	-4	N	3	0	#	bc	52	45	0.41	

For Explanation of Columns see page 1.

For Explanation of Columns, see bottom of last page.

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

# WEATHER CHARTS

for 8 a.m. on Thursday, 16<sup>th</sup> February, 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

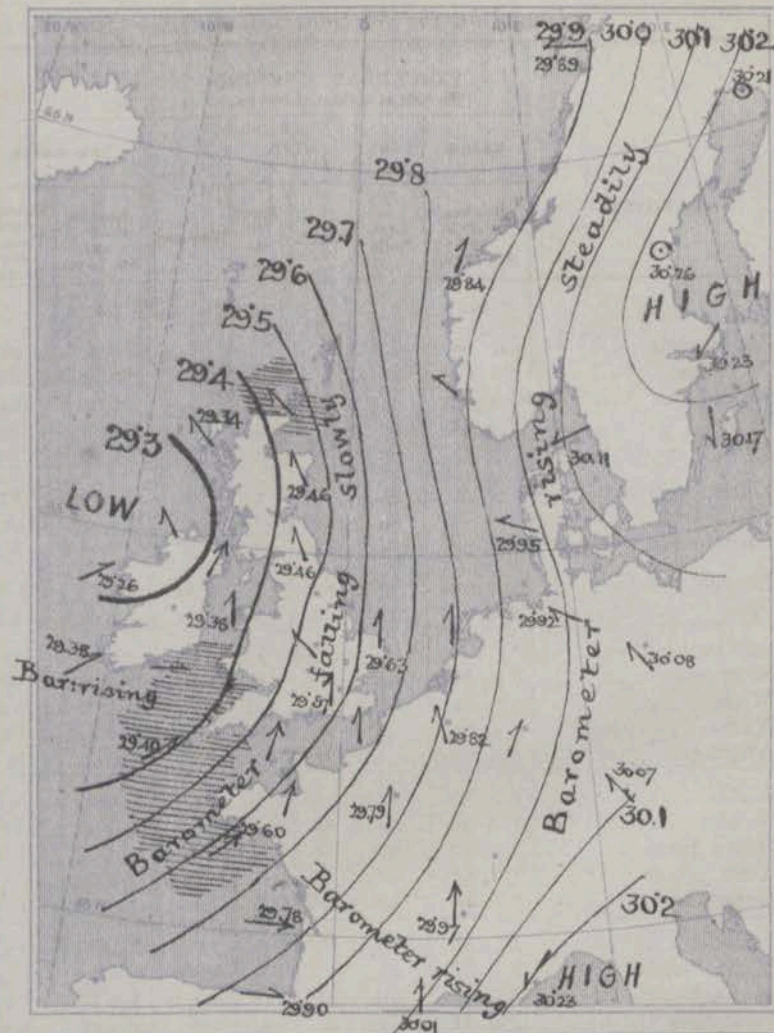
### MEAN HEIGHT OF THE BAROMETER

at 8.0 a.m. for the month of February  
 During the 20 Years: 1871—1900.

#### STATIONS.

#### MEAN READINGS.

STATIONS.	MEAN READINGS.
Sumburgh Head	29.773
Stornoway	29.773
Wick	29.801
Nairn	29.811
Aberdeen	29.818
Leith	29.870
Shields	29.900
Spurn Head	29.934
York	29.939
Loughborough	29.962
Ardrrossan	29.979
Mullaghmore	29.981
Donaghadee	29.984
Holyhead	29.971
Liverpool	29.934
Parsonstown	29.906
Valencia	29.919
Roche's Point	29.916
Pembroke	29.937
Sally	29.959
Pravle Point	29.963
Jersey	30.007
Hurst Castle	29.986
Dover	29.981
LONDON	29.983
Oxford	29.985
Cambridge	29.979
Yarmouth	29.964



## 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.

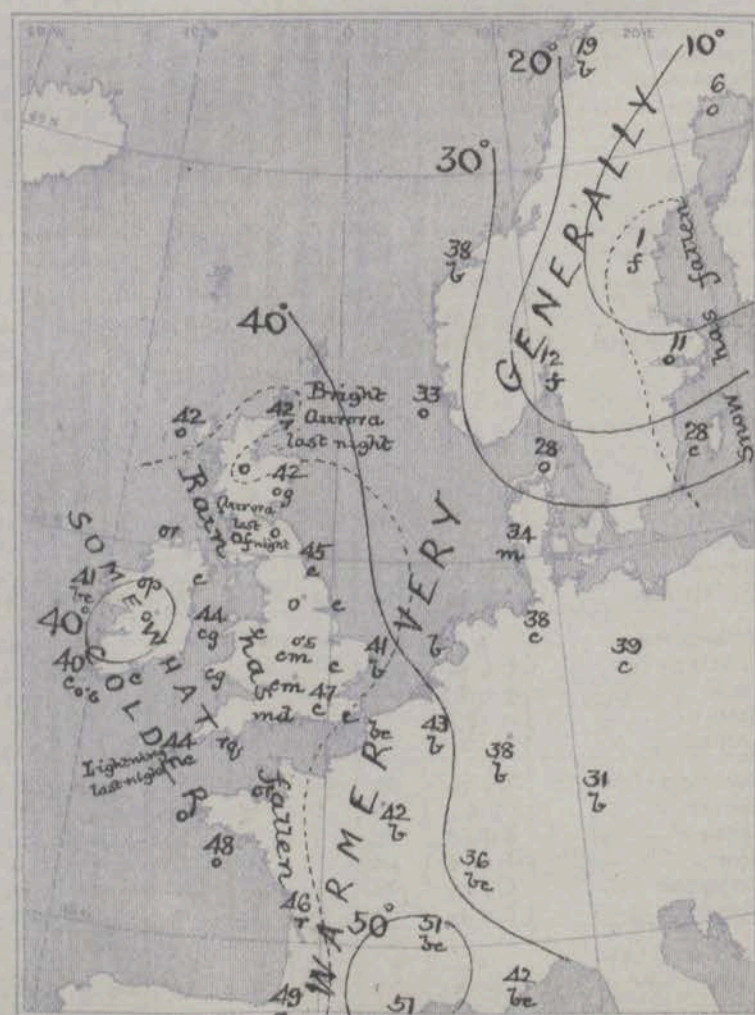
**RAINFALL**—A dotted line separates the districts in which rain has fallen from those where there has been none. Falls of 0.5 in. or more are quoted in figures.

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

(For the month of February.)

STATIONS	TEMPERATURE				RAINFALL
	Days Max	Days Min	at 8 a.m.	at 8 a.m.	
Sumburgh Head	42.4	34.5	38.6	37.4	3.19
Stornoway	43.0	34.5	39.1	38.1	3.28
Wick	43.1	33.2	38.1	36.7	2.01
Nairn	43.4	33.4	37.1	35.1	1.49
Aberdeen	43.5	33.5	37.3	35.7	2.84
Leith	45.7	34.3	38.0	37.1	1.43
Shields	43.8	35.1	38.6	37.0	1.50
Spurn Head	42.3	35.0	38.4	37.0	1.36
York	44.6	35.0	37.5	36.4	1.70
Loughborough	45.3	35.0	37.8	36.4	1.75
Ardrrossan	44.6	35.1	39.4	38.2	0.03
Mullaghmore	46.0	35.8	42.0	40.3	2.00
Donaghadee	45.5	35.5	40.3	39.3	2.42
Holyhead	46.5	35.7	41.5	40.1	2.60
Liverpool	44.5	35.2	38.9	37.3	1.65
Parsonstown	46.0	35.6	39.4	38.1	2.20
Valencia	46.7	35.7	41.5	40.9	1.98
Roche's Point	48.4	35.6	45.1	41.6	4.48
Pembroke	45.5	35.4	42.1	40.9	2.81
Sally	48.0	42.3	45.0	41.4	2.71
Pravle Point	46.4	38.1	41.5	40.5	2.62
Jersey	46.0	36.9	42.3	41.0	2.35
Hurst Castle	46.7	36.1	40.3	39.3	2.25
Dover	44.4	36.1	39.2	38.1	1.95
LONDON	45.5	35.1	38.6	37.1	1.77
Oxford	45.0	34.5	37.0	36.8	1.62
Cambridge	45.5	32.5	37.8	36.2	1.46
Yarmouth	45.6	34.5	38.2	37.3	1.89

NOTE.—The Temperature means are for the 20 years 1871-90, the Rainfall means are mainly those for the 20 years 1861-90.



# GENERAL SITUATION AT 8 A.M.

## PRESSURE

Highest, 30.2 in. and upwards, over Sweden and the Gulf of Bothnia; 30.1 in. and upwards over the southern part of the Spanish peninsula.  
Lowest, 29.3 in. and less, in a depression lying off our extreme northwest coasts.

Gradients moderate or slight generally.

Barometer rising in Scandinavia, the extreme west of our Islands, and the southwest of France, but falling elsewhere.

## TEMPERATURE

Highest, 51° at Lyons and Perpignan, 49° at Biarritz, 48° at Lorient, 47° at Lisbon, Jersey, Hunt-Castle and in London.

Lowest, 1° at Haparanda, 6° at Haparanda, 11° at Stockholm, 12° at Gothenburg, 19° at Bordeaux, and 28° at Wintre.

During yesterday the thermometer rose to between 45° and 50° in nearly all parts of the United Kingdom.

## WIND

Moderate from the S<sup>W</sup> or S<sup>W</sup><sup>W</sup> on our western and southern coasts, but from the S<sup>E</sup><sup>W</sup> in the north and east of our Islands, as well as in Denmark, Germany, and the Netherlands.

Fresh from the S<sup>W</sup><sup>W</sup> or W<sup>W</sup> in the west of France, variable in the south of that country.

Calm over the northern part of Sweden; NE<sup>3</sup> or N<sup>2</sup> in the south.

## WEATHER

Cloudy or overcast over the greater part of the United Kingdom, with rain in the south of England, the north of Ireland, and the extreme north of Scotland.

Fine and bright over Germany, the Netherlands, and the central and southern parts of France, as well as in the west of Norway.

Since yesterday morning rain has fallen in most parts of our Islands, the largest amounts being 0.6 in. at Valencia (Ireland) and 0.5 in. at Loughborough. Lightning was seen last night at Selly, and bright aurora in the west and north of Scotland.

## SEA

Rough at Wick and Pembroke and rather rough on our southwest coasts generally, as well as in the Bay of Biscay.

## PROBABLE CHANGES IN SYSTEM NOW PREVALENT

The depression off our northwest coasts appears to be moving northwards, but the barometer in the extreme west is very unsteady so that other disturbances will probably approach our Islands shortly.

## FORECASTS

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

DISTRICTS.		FORECASTS.	
0	SCOTLAND NORTH	} SE <sup>4</sup> winds, moderate to strong ; unsettled, rain at times.	
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, freshening; mild, changeable, some rain.	

DISTRICTS.		FORECASTS.	
6	SCOTLAND WEST	Same as N° 0 and 1.	
7	ENGLAND N.W.	} Same as N° 5	
8	ENGLAND S.W.		
9	IRELAND NORTH	} SW <sup>4</sup> winds, moderate, to S <sup>3</sup> , strong ; unsettled, some rain.	
10	IRELAND SOUTH		
WARNINGS		At 7.40 pm yesterday to districts 3, 5 to 10 and parts of 0 and 1. 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 ...	29.65	33	31	SSE	8	S	6	Valencia ...	29.85	46	44	SSE	4	chty	4
Sumburgh Head ...								Scilly ...	29.54	52	49	S	5	c	5
Stornoway ...	29.37	46	43	W	6	b	5	Jersey ...	29.72	51	48	SE	4	c	3
Aberdeen ...	29.56	45	39	SW	3	b	4	Hurst Castle ...	29.70	48	49	SSW	4	c	4
Shields ...	29.65	47	41	SE	3	c	3	Dungeness ...	29.75	48	47	S	3	c	3
Ardrossan ...	29.56	45	43	SE	3	c	3	North Foreland ...	29.77	47	46	S	2	bc	3
Malin Head ...	29.39	44	40	SSE	5	c	2	London (rostrum) ...	29.73	50	48	SSE	2	op	*
Mullaghmore ...	29.35	47	42	SSE	7	c	5	Yarmouth ...	29.77	41	40	SSW	3	of	3
Belmullet ...	29.80	44	42	SSE	5	op	*	Rochefort ...	29.80	54	53	SSW	4	be	*
Holyhead ...	29.58	46	44	S	3	c	2								

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

Weather in morning fine generally over the Mediterranean and many parts of southeastern Europe, France, England, and Scandinavia, cloudy or overcast elsewhere, and very changeable over the United Kingdom generally. Rain falling in Portugal, at several of the English Channel stations, rain and snow over Eastern Germany and Poland, snow at Archangel. Fog prevalent over the Gulf of Finland. Rain falling later in nearly all parts of the British Isles - rather heavily in a few isolated localities; hail at Valencia; lightning seen at Scilly, aurora in Scotland at night.

Temperature fallen fast over Russia and Hungary, risen on the eastern shores of the North Sea, changing very fitfully elsewhere; morning readings 56° to 59° in the southern and western shores of the Mediterranean and 51° at Lisbon, 49° at Lorient, 48° at Jersey, and Scilly, and above 40° in the south and southwest of our Islands as well as at Stornoway and over the north of France and Central Germany. Lowest, -14° F. at St. Petersburg, -7° at Helsingfors, +5° at Altona and Stockholm, 8° at Archangel, 9° at Haparanda, 15° at Riga, 16° at Hermanstadt. Rising later to between 50° and 53° at some of our southern and southwestern stations to 57° at Rochefort, 58° at Lyons and 60° at Perpignan; succeeding night very mild over British Islands.

Wind light and variable over Russia, southeastern Europe and the Mediterranean, S over nearly the whole of western Europe, but W over Scotland and E, strong to a gale in Norway. The S current becoming strong and squally at some of our stations later, while the E wind in Norway veered to SE.

Barometer highest 30.3 in. to 30.0 in. over the Mediterranean, southeastern and southern Europe, and 30.1 in. to 30.0 in. over Lapland, Finland and the northern half of Sweden. Lowest 29.1 in. and less, in a depression lying to the northward of Scotland, 29.4 in. and less in the west of Ireland, and 29.3 in. and less over the northeast of Russia. Rising fast in Norway and Scotland later, falling somewhat over Ireland and the west and south 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.

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 *Friday, 17<sup>th</sup> February, 1893*  
 Issued by the Meteorological Office, 63, Victoria Street, London. *R. H. SCOTT, Secretary.*

Issued by the Meteorological Office, 55, Victoria Street, London. R. H. SCOTT, Secretary.																			
STATIONS.		YESTERDAY EVENING. (See note at bottom of last page.)					THIS MORNING. (See note at bottom of last page.)										PAST 24 HOURS.		
		Barom.	Temp.	Wind.		Weather.	Barometer.		Sea-side Temp.		Wind.		Sea (0 to 9).	Shade Temp.		Amount of Rainfall.			
				Reading at 32° F. and Sea Level.	Change since Yesterday Morn.		Dry Bulb.	Wet Bulb.	Change in dry since Yesterday.	Dir.	Force (0 to 12).	Weather.		Max.	Min.				
		Inch.	°	Dir.	Force (0 to 12).		Inch.	°	°	°	Dir.	Force (0 to 12).			°	Inch.			
SCANDINAVIA.	Haparanda ...	30.25	3	2	0	b	30.17	-0.04	5	4	-1	EHE	2	0	#	b	12	0	0.04
	Hernösand ...	30.23	-6	2	0	b	30.08	-0.18	5	4	+4	2	0	c	#	b	10	-9	-
	Stockholm ...	30.34	19	2	0	0	30.23	-0.00	24	23	+13	SSW	2	0	#	0	24	10	-
	Wisby ...	30.34	26	SSE	4	0	30.26	+0.09	30	28	+2	SSW	4	0	#	0	30	16	-
	Bodö ...	29.80	19	E	6	0	29.93	+0.14	21	20	+2	E	4	0	#	0	25	14	-
	Christiansund...	29.89	37	EHE	2	0	29.76	-0.08	42	37	+4	EHE	1	bc	2	0	43	36	0.39
	Skudesnaes ...	29.83	39	ESE	6	0	29.80	-0.12	37	35	+4	SSE	6	0	4	c.0	39	33	-
	Christiania Fjord (Færdø)	30.18	21	NHW	4	0	30.05	-0.11	3	3	-9	NHE	4	f	1	c.0	21	13	-
	Skagen (The Scaw)	30.08	31	SE	3	0	29.98	-0.13	31	31	+3	SE	3	f	1	0	32	27	-
	Fanø ...	29.93	33	SE	4	m	29.91	-0.04	35	35	+1	SW	2	f	#	m	37	32	0.16
ISLANDS.	Sumburgh Head	29.26	41	W	4	f	29.44	+0.10	37	37	-5	SW	2	f	2	c.5	46	35	0.10
	Wick ...	29.32	42	S	3	f	29.44	+0.08	40	38	-2	SW	5	c	5	f	43	39	0.25
	Nairn ...	29.31	39	SW	2	f	29.48	+0.10	38	37	-3	SW	2	b	1	f	47	35	0.16
	Aberdeen ...	29.38	42	SSE	5	oggr	29.62	+0.16	37	35	-5	S	2	bc	4	gmd.ry	43	34	0.14
	Leith ...	29.40	39	SW	1	0	29.67	+0.27	38	36	-3	HSW	4	c	#	0	48	36	0.07
	Shields ...	29.48	45	SSW	2	c	29.72	+0.26	37	36	-8	HSW	1	m	2	p.c.†	48	36	0.04
	Spurn Head ...	29.59	43	SSW	5	b	29.83	+0.30	37	36	-4	HSW	4	bw	3	b	46	36	-
	York ...	29.55	45	SSE	2	c	29.85	+0.35	37	36	-7	S	1	c	#	c	47	35	0.06
	Loughborough	29.60	43	SSW	2	bc	29.88	+0.35	37	35	-6	SW	3	b	#	bc	48	35	0.05
	Ardrossan ...	29.40	43	SW	3	0	29.70	+0.34	41	39	-1	SW	5	b	4	r.0	45	38	0.07
BRITISH.	Malin Head ...	29.36	40	SSW	5	b	29.66	+0.43	37	36	-5	SSW	5	ohrs	3	0.6	45	35	0.16
	Mullaghmore ...	29.42	41	WSW	5	bc	29.69	+0.44	37	36	-3	S	5	g+sp	4	c.6c	45	36	0.08
	Behnullet ...	29.45	40	W	4	op	29.68	+0.42	40	39	-1	SW	3	0	#	bc. p	44	38	0.23
	Donaghadee ...	29.46	39	SW	4	b	29.77	+0.41	32	32	-12	W	3	b	1	b	45	30	0.15
	Liverpool (Bidston)	29.54	42	SE	1	0	29.86	+0.42	36	34	-9	SW	2	b	1	0	48	34	0.18
	Holyhead ...	29.50	43	WSW	1	og	29.85	+0.47	39	37	-5	WSW	1	bc	2	opg	45	38	0.05
	Parsonstown ...	29.50	40	SW	1	b	29.80	+0.48	34	32	-4	2	0	0	#	b	47	31	-
	Valencia ...	29.61	43	WSW	5	chp	29.81	+0.43	42	40	+2	S	2	um	3	c.ghp	45	34	0.16
	Roche's Point	29.58	43	W	3	bc	29.85	+0.48	43	42	+2	SW	3	0	3	bc	45	36	-
	Pembroke (St. Ann's Hd.)	29.55	42	WSW	4	f	29.90	+0.51	44	43	0	WSW	4	cp	5	f	46	38	0.13
GERMANY & HOLLAND.	Scilly ...	29.62	42	WSW	5	cp	29.95	+0.53	45	44	+1	SW	4	0	5	r. cp	48	38	0.25
	Prawle Point ...	29.65	39	W	4	f	30.01	+0.52	42	40	-2	W	3	cq	2	pq	46	35	0.26
	Jersey (St. Aubin's)	29.71	46	SSW	4	bcu	30.07	+0.49	42	41	-5	WSW	4	bcpm	4	bcu	51	38	0.20
	Hurst Castle ...	29.67	45	SW	6	bc	29.99	+0.44	41	39	-6	W	4	b	4	bc. p	49	38	0.16
	Dungeness ...	29.73	46	SW	4	c	29.98	+0.36	41	39	-5	W	3	bqpr	4	c	49	39	0.01
	North Foreland	29.72	45	S	4	cqu	29.94	+0.31	40	39	-5	W	2	c	3	o.cqu	50	37	0.04
	London ...	29.69	45	WSW	2	b	29.97	+0.40	36	35	-11	WSW	2	b	#	c. op. b	51	35	0.02
	Oxford ...	29.67	40	SW	1	bc	29.96	+0.44	35	34	-10	SW	3	b	#	o. bc	48	35	0.10
	Cambridge ...	29.68	43	SW	1	b	29.94	+0.37	37	36	-8	SW	1	b	#	b	50	34	0.02
	Yarmouth ...	29.69	45	SSW	3	bc	29.88	+0.25	40	39	-1	WSW	3	bcn	3	bc	47	36	-
FRANCE AND BELGIUM.	Cuxhaven ...	29.94	44	SSE	2	b	30.02	+0.10	42	41	+4	SW	2	bc	#	b	48	38	-
	Berlin ...	30.07	47	SE	1	b	30.10	+0.02	35	34	-4	SE	1	bc	#	b	52	34	-
	Wiesbaden ...	30.17	47	SE	1	b	30.17	+0.16	39	37	+1	SW	3	0	#	#	50	36	-
	Munich ...	30.10	35	SW	1	b	30.19	+0.12	33	31	+2	SW	4	b	#	b	48	28	-
	The Helder ...	29.84	46	S	2	c	29.99	+0.18	39	37	0	SSW	5	b	5	c	50	39	-
	Brussels (9 a.m.)	*	*	*	*	*	30.07	+0.25	39	37	-4	SSW	4	c	#	bc	58	38	-
	Cape Gris Nez	29.76	44	SSW	4	c	29.93	+0.29	40	40	-6	SW	5	f	5	c	52	37	0.28
	Paris ...	29.93	47	S	4	0	30.12	+0.33	39	38	-3	SSW	3	0	#	0	58	39	-
	Brest ...	?	43	W	5	0	?	?	46	43	+1	W	5	0	5	0	50	39	-
	Lorient ...	29.81	43	W	7	c	30.10	+0.50	47	42	-1	W	6	?	5	c	48	41	0.08
PENINSULA.	Rochefort ...	29.98	47	W	6	c	30.19	+0.41	48	44	-1	W	4	c	#	o. c	54	43	0.12
	Belfort ...	?	51	W	3	b	?	?	36	35	0	W	1	f	#	b	59	36	-
	Lyons ...	30.03	33	S	4	0	30.33	+0.36	35	34	-16	SSW	1	bc	#	0	59	34	0.47
	Nice ...	30.21	48	E	5	c	30.22	-0.01	48	43	+6	E	4	c	3	c	54	42	-
	Pernignan ...	30.08	54	E	2	0	30.30	+0.29	39	36	-12	HW	2	b	#	0	58	?	0.12
	Biarritz ...	30.11	52	HW	3	c	30.29	+0.39	48	44	-1	WSW	4	0	6	c	64	43	0.04
	Corunna ...	30.35	51	*	*	*	30.42	+0.25	45	44	-2	NHE	3	c	#	* c	57	45	-
	Lisbon ...	30.35	51	*	*	*	30.42	+0.25	45	44	-2	NHE	3	c	#	* c	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 Friday, 17<sup>th</sup> February, 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.

⊙—dead calm.

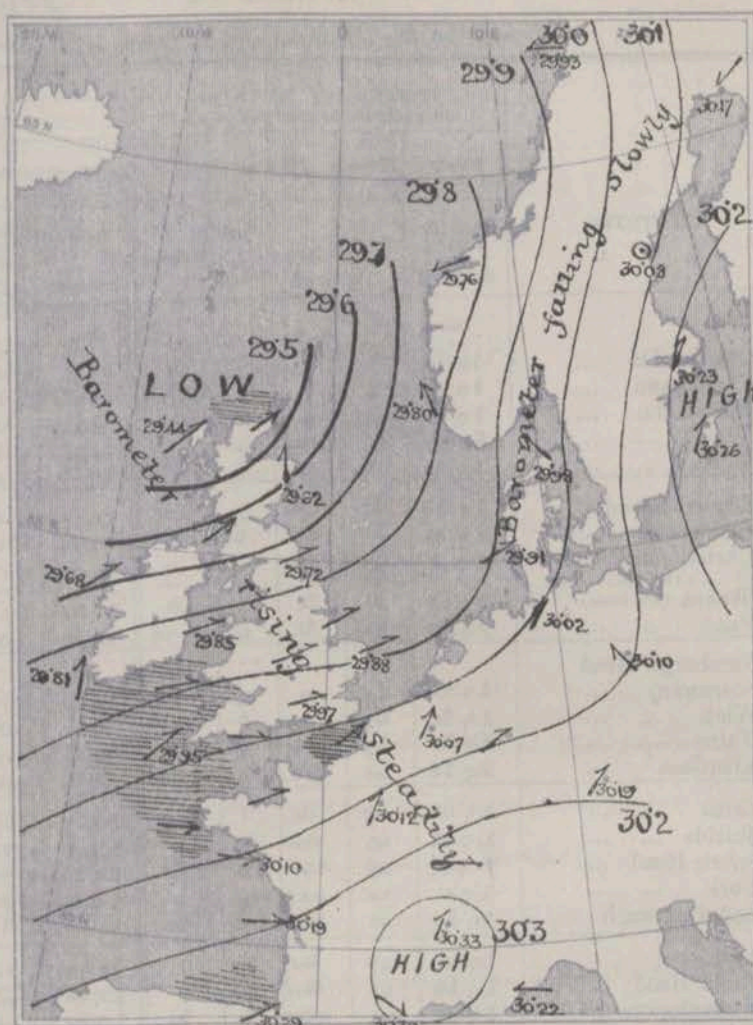
**SEA DISTURBANCE**—Where considerable, is shown thus

▨ = Rough, ▩ = High.

### MEAN HEIGHT OF THE BAROMETER

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

STATIONS.	MEAN READINGS.
Sumburgh Head	29.775
Stornoway	29.773
Wick	29.834
Nairn	29.814
Aberdeen	29.818
Leith	29.870
Shields	29.906
Spartn Head	29.934
York	29.959
Loughborough	29.993
Arbroath	29.973
Mullaghnore	29.854
Donaghadee	29.884
Holyhead	29.914
Liverpool	29.934
Parsonstown	29.900
Valencia	29.914
Roche's Point	29.916
Pembroke	29.937
Sally	29.959
Prawle Point	29.924
Jersey	30.007
Hurst Castle	29.986
Dover	29.983
LONDON	29.930
Oxford	29.983
Cambridge	29.979
Yarmouth	29.904



## 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.

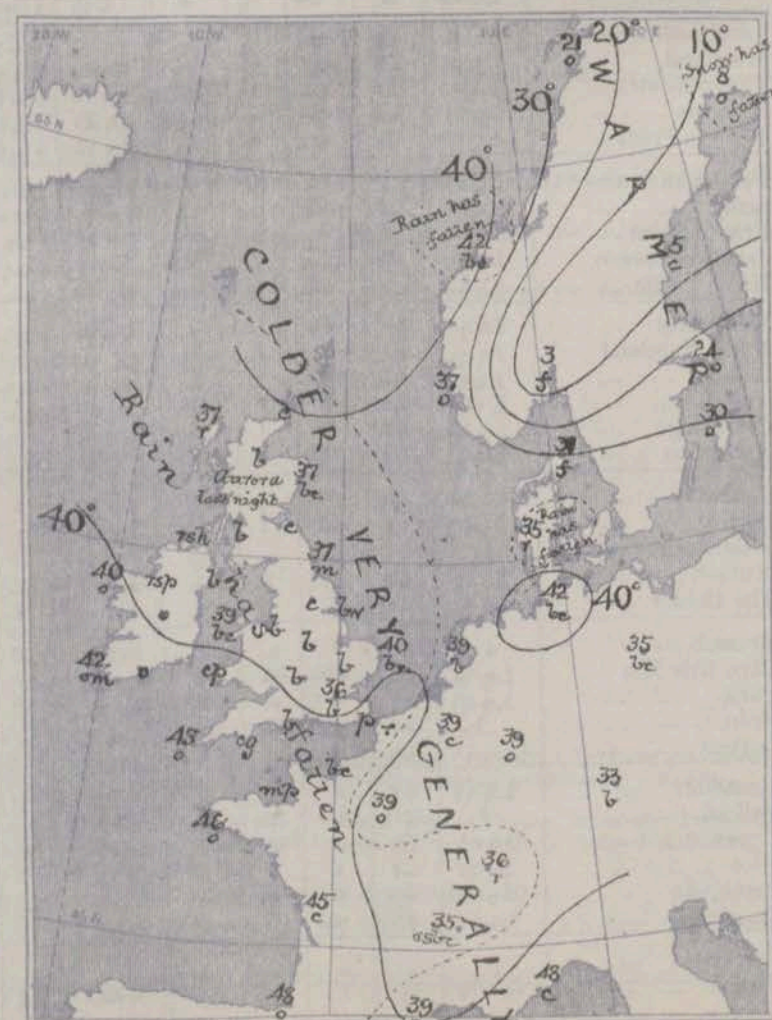
**RAINFALL**—A dotted line separates the districts in which rain has fallen from those where there has been none. Falls of 0.5 in. or more are quoted in figures.

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

(For the month of February.)

STATIONS.	TEMPERATURE.				RAINFALL (inches)
	Daily Max.	Daily Min.	at 8 a.m.	at 4 p.m.	
Sumburgh Head	42.4	34.5	38.5	37.4	3.19
Stornoway	43.5	34.0	39.1	38.1	3.80
Wick	43.1	33.2	38.1	36.7	2.01
Nairn	43.4	33.4	37.1	35.4	1.48
Aberdeen	43.2	33.8	37.3	35.7	2.35
Leith	45.7	34.3	39.0	37.1	1.45
Shields	43.8	33.1	38.0	37.3	1.50
Spartn Head	42.3	35.0	38.4	37.6	1.36
York	44.0	33.9	37.5	36.4	1.70
Loughborough	45.3	35.9	37.5	36.4	1.70
Arbroath	44.0	35.5	39.4	38.2	3.04
Mullaghnore	46.6	38.6	42.0	40.3	2.09
Donaghadee	45.3	35.9	40.3	39.3	2.42
Holyhead	44.5	38.7	41.5	40.1	2.50
Liverpool	44.5	36.2	38.9	37.3	1.69
Parsonstown	46.9	35.0	39.4	38.1	2.20
Valencia	49.7	40.7	44.0	42.9	4.95
Roche's Point	48.1	39.6	43.1	41.6	4.43
Pembroke	45.5	39.4	43.1	40.9	2.82
Sally	48.9	42.8	46.0	44.4	2.71
Prawle Point	46.8	38.1	41.5	40.5	2.02
Jersey	46.9	39.3	42.3	41.0	2.55
Hurst Castle	45.7	36.7	40.3	39.3	2.25
Dover	44.4	36.1	39.2	38.1	1.95
LONDON	45.5	35.1	39.0	37.4	1.73
Oxford	45.0	34.9	37.9	36.8	1.02
Cambridge	45.5	32.8	37.3	36.2	1.46
Yarmouth	49.6	31.0	38.2	37.3	1.82

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



# GENERAL SITUATION AT 8 A.M.

## PRESSURE

Highest, 30.4 ins. and upwards, over the southern parts of the Spanish Peninsula; 30.2 ins. and upwards over the Baltic.  
 Lowest, 29.5 ins. and less, in a depression lying over the north of Scotland.  
 Gradients slight. Barometer rising at all but the Scandinavian and Danish stations.

## TEMPERATURE

Highest, 48° at ~~Leeds~~ Biarritz, and Nîmes, 47° at Grient, 46° at Brest, and 45° at Fecamp, Rochefort, and Lorient.  
 Lowest, 3° at Faeder, 5° at Auparanda and Hernösand, 21° at Rode, 24° at Stockholm, and 30° at Kisti.  
 In the course of yesterday the thermometer rose to between 45° and 50° in nearly all parts of the United Kingdom.

## WIND

Light to moderate from the SW<sup>nd</sup> over the greater part of our Islands, but backing to the S<sup>nd</sup> in the west of Ireland.  
 Moderate to strong from the W<sup>nd</sup> in the west of France, light from SW. over Germany and the Netherlands.  
 SE<sup>ly</sup> or E<sup>ly</sup> in the coast of Norway.

## WEATHER

Fine in most parts of Great Britain, as well as in Germany and the south of France.  
 Dull in Ireland, with hail and sleet in the north.  
 Cloudy at most of the Scandinavian and Danish stations, with fog in the neighbourhood of the Low.  
 Rain fell yesterday in nearly all parts of our Islands. Solar halos were seen at Oxford and Hunt-Castle, and an Aurora at Aberdeen and Anderson.

## SEA

Plenty rough at Mael and Penrhy, as well as on the French coast, but moderate or slight elsewhere.

## PROBABLE CHANGES IN SYSTEM NOW PREVALENT

The backing of the wind to the southward in the west of Ireland seems to indicate the advance of another depression from the westward and the weather is therefore likely to remain in an unsettled state generally.

# FORECASTS

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

## DISTRICTS.

## FORECASTS.

† 0	SCOTLAND NORTH	SW <sup>ly</sup> winds, moderate to strong; unsettled, some rain.
1	SCOTLAND EAST	{ SW <sup>ly</sup> winds, light or moderate; fair to showery.
2	ENGLAND N.E.	
3	ENGLAND EAST	{ SW <sup>ly</sup> winds, moderate to fresh; fine to cloudy and some rain.
4	MIDLAND COUNTIES	
5	ENGLAND SOUTH	

## DISTRICTS.

## FORECASTS.

† 6	SCOTLAND WEST	{ SW <sup>ly</sup> winds, fresh or strong, changeable, showery.
† 7	ENGLAND N.W.	
† 8	ENGLAND S.W.	{ S <sup>ly</sup> and SW <sup>ly</sup> winds, moderate to strong; dull, unsettled, some rain.
† 9	IRELAND NORTH	
† 10	IRELAND SOUTH	

## WARNINGS

At 10.20 am to districts 3 and 5 Lower Cone.  
 The signals are still flying in districts 0 and 6 to 10.

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

# YESTERDAY'S 2 P.M. REPORTS.

	BAR.	THER.		WIND. Direc.	P.	WEA.	SEA.		BAR.		THER.		WIND. Direc.	F.	WEA.	SEA.
		Dry.	Wet.								Dry.	Wet.				
Skudesnaes ...	29.87	38	35	ESE	4	c	4		Valencia ...	29.51	45	40	W	4	chp	4
Samburgh Head									Scilly ...	29.52	42	40	W	5	r	5
Sternoway ...	29.29	46	45	SE	4	c	4		Jersey ...	29.67	51	48	SW	4	bc	2
Aberdeen ...	29.42	43	42	S	3	ogdn	5		Hurst Castle ...	29.62	47	45	SW	4	bc	4
Shields ...	29.44	43	46	SE	3	o	3		Dungeness ...	29.67	46	45	SW	4	c	3
Ardrossan ...	29.37	44	43	SE	4	r	3		North Foreland ...	29.63	48	47	S	4	o	5
Malin Head ...	29.32	43	40	S	4	o	2		London (Westminster)	29.62	50	46	SW	4	c	*
Mullaghmore ...	29.36	45	41	SW	4	c	3		Yarmouth ...	29.63	47	45	S	4	bc	4
Belmullet ...	29.37	44	42	SW	4	bc	*		Rocheport ...	29.89	48	46	W	5	o	*
Holyhead ...	29.41	45	44	SSW	4	ogp	3									

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

Weather in morning fine and bright over southeastern Europe as well as over the northwest of Norway, and at several stations in France and the east of England, cloudy more or less elsewhere, rainy over the English Channel, in the southwest of France, and at Wick. Rain more or less over the greater part of our Islands and France during the day, but amounts small.

Temperature risen over the Baltic as well as over England, not changed much elsewhere; morning readings <sup>highest</sup> 61° at Algiers and above 50° at several of the extreme southern stations, exceeding 40° over France and the United Kingdom, and exceeding the freezing point over Central Europe. Lowest -5° F. at Moscow, -4° at Archangel, 11° at Uleaborg and Heringsand, 10° at St Petersburg and Hangö and 11° at Stockholm; (2) 2° at Kharkov, 8° at Kiev, 11° at Odessa, 16° at Riga. Rising to 50° or more at a few of our southern stations later, and at Jersey, to between 54° and 58° in the south of France, and to 64° at Biarritz.

Wind very light and variable over Finland, Russia, central and southeastern Europe; W<sup>2</sup> and SW<sup>2</sup>, moderate over the Bay of Biscay, W<sup>2</sup> to S<sup>2</sup> in Ireland, S<sup>2</sup> over England and the north of France, SE<sup>2</sup> in Scotland, and over the North Sea. Varying W<sup>2</sup> in the south of England later.

Barometer highest 30.3 ins and more to 30.2 ins over the whole of southeastern Europe, and exceeding 30 ins all over Russia, the Baltic and London. Lowest 29.3 ins and less, off the northwest of Ireland, and below 29.4 ins on our western coasts generally. Depression in the west moving northwards later, and barometer rising in Ireland.

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

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

\* AN ASTERISK is inserted in all places for which information is not usually received.  
N.B.—The morning observations are made at 8 a.m. in the British Islands, Germany, Sweden, and Norway, 7 a.m. in France, Spain and Portugal, and 9 a.m. in Belgium. The evening observations are made at 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 Saturday, 18<sup>th</sup> February, 1893

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

Published by the Meteorological Office, 53, 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 8).	Weather.	Shade Temp.		Amount of Rainfall.		
																			Reading at 32° F. and Sea Level.	Dry Bulb.
			Inch.	°			Inch.	°	°	°	Inch.									
SCANDINAVIA.																				
Haparanda ...	30.14	1	Z	0	b		30.15	-0.02	-11	-12	-	16	N	2	b	12	?	0.04		
Hernösand ...	30.10	9	NE	2	o		30.08	-0.00	14	13	+	9	NE	2	b	16	-15	0.04		
Stockholm ...	30.04	30	S	2	o		30.03	-0.20	33	32	+	9	W	2	o	33	18			
Wisby ...	30.08	32	SSW	4	o		30.08	-0.18	33	32	+	3	W	4	o	33	19			
Bodö ...	29.93	17	E	6	b		29.80	-0.13	17	15	-	4	E	6	b	21	12			
Christiansund...	29.78	40	WSW	3	+		29.86	+0.10	38	36	-	4	SE	1	b	43	37	0.08		
Skudesnaes ...	29.89	37	SE	7	o		29.92	+0.12	36	35	-	1	SE	6	o	38	34			
Christiania Fjord (Fjorder)	30.01	24	?	3	o		30.02	-0.03	27	27	+	24	Z	0	m	?	?			
Skagen (The Scaw)	30.04	33	SSW	1	f		30.04	+0.06	33	33	+	2	WSW	1	f	34	31			
Fanö ...	30.07	34	SW	4	b		30.09	+0.18	30	30	-	5	SW	4	f	39	30			
Sumburgh Head																				
Stornoway ...	29.60	40	SW	4	+		29.42	-0.02	45	45	+	8	W	4	o	46	35	0.20		
Wick ...	29.66	38	S	3	c		29.41	-0.03	42	41	+	2	S	3	o	43	36	0.15		
Nairn ...	29.68	35	Z	0	c		29.45	-0.03	46	44	+	8	SW	2	c	46	33	0.09		
Aberdeen ...	29.77	38	SSW	3	b		29.55	-0.07	42	41	+	5	SSW	2	c	46	36	0.13		
Leith ...	29.78	39	WSW	3	b		29.58	-0.09	52	50	+	14	WSW	3	o	52	37	0.06		
Shields ...	29.88	41	SSW	2	o		29.70	-0.02	47	47	+	12	SW	3	c	47	35	0.05		
Spurn Head ...	29.97	41	SSW	3	o		29.87	+0.04	47	45	+	10	SW	3	o	47	36	0.05		
York ...	29.95	42	S	1	o		29.84	-0.01	52	49	+	15	WSW	3	o	52	36	0.08		
Loughborough	30.01	42	SSW	2	o		29.94	+0.06	49	48	+	12	SW	4	c	50	35	0.06		
BRITISH ISLANDS.																				
Ardrossan ...	29.76	43	S	4	o		29.63	-0.07	45	45	+	4	SW	4	+	45	38	0.45		
Malin Head ...	29.59	37	SSE	6	o		29.58	-0.08	48	48	+	11	SW	4	o	49	36	0.10		
Mullaghmore ...	29.57	43	SSW	6	c		29.59	-0.10	51	50	+	14	S	5	o	51	36	0.29		
Belmullet ...	29.52	48	SSW	4	o		29.62	-0.06	49	48	+	9	SW	2	o	50	39	0.60		
Donaghadee ...	29.78	40	S	5	+		29.68	-0.09	51	50	+	19	SW	4	+	51	32	0.22		
Liverpool (Bidston)	29.93	40	SSE	2	+		29.86	-0.09	51	50	+	15	SW	5	c	52	36	0.07		
Holyhead ...	29.85	40	S	5	+		29.80	-0.05	48	47	+	9	SSW	5	o	49	39	0.10		
Parsonstown ...	29.69	45	SE	1	o		29.68	-0.12	52	50	+	18	Z	0	+	52	32	0.09		
Valencia ...	29.70	52	S	5	o		29.70	-0.11	51	51	+	9	S	3	o	53	40	0.39		
Roche's Point	29.77	49	SSW	5	+		29.73	-0.12	50	50	+	7	S	5	+	50	43	0.20		
Pembroke (St. Ann's Hd.)	29.87	44	S	4	+		29.88	-0.02	49	48	+	5	SSW	6	+	49	42	0.15		
Scilly ...	29.94	51	SW	5	c		29.92	-0.03	51	51	+	6	SSW	6	m	51	44	0.10		
Prawle Point ...	30.00	46	SSW	2	f		30.06	+0.05	48	48	+	6	SSW	5	o	49	41	0.15		
Jersey (St. Aubin's)	30.11	46	SSE	3	o		30.20	+0.13	50	48	+	8	S	3	c	50	40	0.14		
Hurst Castle ...	30.07	43	SSW	4	o		30.11	+0.12	47	47	+	6	SW	5	o	47	40	0.06		
Dungeness ...	30.09	45	WSW	5	c		30.09	+0.11	47	46	+	6	WSW	4	o	48	44	0.02		
North Foreland	30.09	43	SW	2	o		30.08	+0.14	49	48	+	9	SW	2	o	49	38	0.03		
London ...	30.09	44	SW	2	o		30.07	+0.10	51	49	+	15	S	4	+	51	36	0.02		
Oxford ...	30.08	40	S	1	+		30.03	+0.07	50	48	+	15	S	2	o	50	38	0.04		
Cambridge ...	30.06	45	SW	1	c		30.02	+0.08	50	48	+	13	SSW	2	o	50	36	0.05		
Yarmouth ...	30.15	43	WSW	2	b		29.98	+0.10	47	46	+	7	SW	4	b	47	38	0.04		
GERMANY & HOLLAND.																				
Cuxhaven ...	30.10	42	SW	2	c		30.18	+0.16	36	34	-	6	SSW	2	b	43	34			
Berlin ...	30.17	42	W	2	+		30.23	+0.13	38	38	+	9	W	3	+	50	35	0.16		
Wiesbaden ...							30.30	+0.13	34	33	-	5	W	1	S	43	32	0.04		
Munich ...	30.30	35	SW	4	+		30.36	+0.17	33	33	0	0	W	5	S	41	32	0.12		
The Helder ...	30.15	39	SSW	2	b		30.10	+0.11	39	38	0	0	SSW	4	f	43	36	0.04		
BRUSSLS (P.M.)																				
Brussels (P.M.)							30.18	+0.11	43	43	+	4	SW	4	+	44	35	0.08		
Cape Gris Nez	30.09	42	W	2	c		30.09	+0.16	44	44	+	4	WSW	4	o	45	36	0.04		
Paris ...	30.25	45	SW	3	o		30.28	+0.16	47	47	+	8	SW	2	o	48	39	0.04		
Brest ...		51	WSW	2	o		?	?	51	50	+	5	SW	4	c	52	39	0.20		
Lorient ...	30.17	51	WSW	6	c		30.22	+0.12	50	48	+	3	SSW	5	b	52	46	0.12		
FRANCE AND BELGIUM.																				
Rochefort ...	30.25	49	WSW	4	+		30.30	+0.11	44	43	-	1	SW	3	b	52	43			
Belfort ...		37	W	2	o		?	?	40	40	+	4	W	3	o	46	34			
Lyons ...	30.43	44	N	1	b		30.44	+0.11	40	38	+	5	SW	1	o	52	35			
Nice ...	30.22	48	W	1	b		30.27	+0.05	43	41	-	5	E	1	c	54	41	0.43		
Perpignan ...	30.37	52	N	2	o		30.37	+0.07	46	44	+	7	SW	1	c	58	38			
Biarritz ...	30.34	55	Z	0	b		30.29	-0.00	45	40	-	3	SSE	4	b	59	36			
PENIN- SULA.																				
Corunna ...																				
Lisbon ...	30.39	53	SSW	1	b		30.35	-0.07	46	44	+	1	NE	3	o	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, 18<sup>th</sup> February, 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 6 to 7; — forces 1 to 5;  
— dead calm

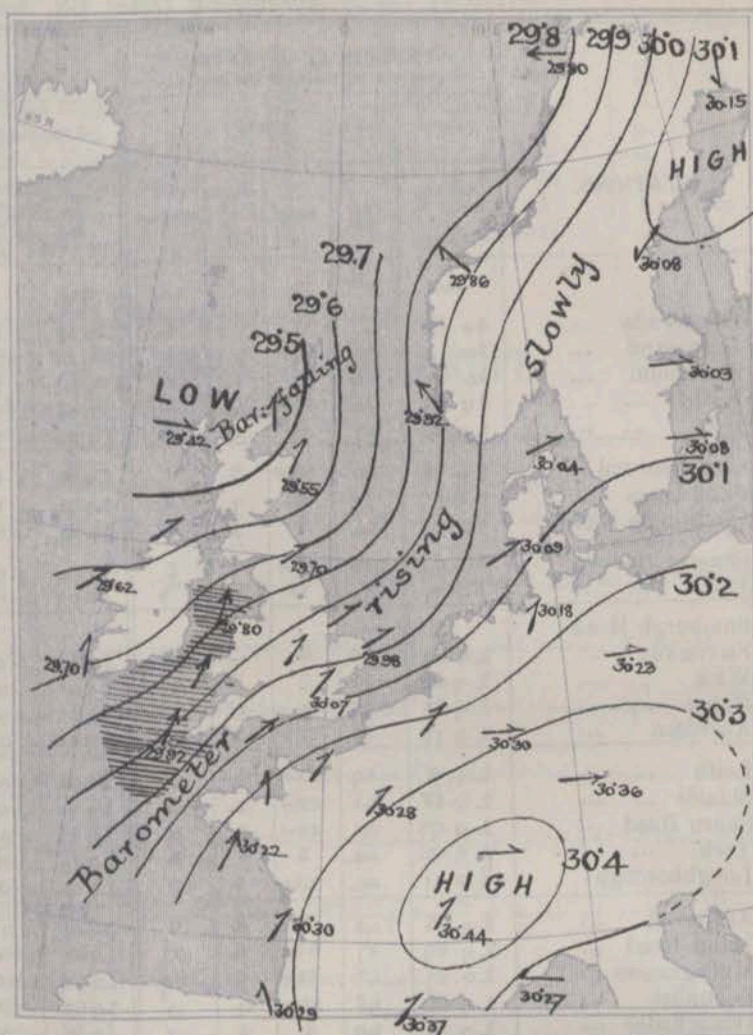
**SEA DISTURBANCE**—Where considerable, is shown thus:

— = Rough. — = High.

## MEAN HEIGHT OF THE BAROMETER

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

STATIONS.	MEAN READINGS.
Sunbury Head	29.773
Stornoway	29.773
Wick	29.894
Nairn	29.814
Aberdeen	29.848
Leith	29.870
Shields	29.908
Spurn Head	29.954
York	29.939
Loughborough	29.960
Androsan	29.873
Mullaghmore	29.853
Donaghadee	29.884
Holyhead	29.914
Liverpool	29.934
Parsonstown	29.900
Valencia	29.949
Roche's Point	29.946
Pembroke	29.937
Sally	29.950
Prawle Point	29.923
Jersey	30.007
Hurst Castle	29.986
Dover	29.985
LONDON	29.980
Oxford	29.985
Cambridge	29.979
Yarmouth	29.964



## 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 February)

STATIONS.	TEMPERATURE.				RAINFALL (Inches.)
	Daily Max.	Daily Min.	At 8 a.m.	At 8 a.m.	
Sunbury Head	42.4	34.6	38.5	37.4	3.19
Stornoway	43.5	34.6	39.1	38.1	3.86
Wick	43.1	33.2	38.1	36.7	2.04
Nairn	43.1	33.4	37.1	35.4	1.48
Aberdeen	43.2	33.8	37.3	35.7	2.53
Leith	45.7	34.3	38.6	37.1	1.46
Shields	48.8	35.1	38.6	37.3	1.50
Spurn Head	42.3	35.9	38.4	37.6	1.86
York	44.6	33.9	37.5	36.4	1.70
Loughborough	40.8	33.9	37.5	36.1	1.73
Androsan	44.6	35.3	39.4	38.2	3.04
Mullaghmore	46.0	35.6	39.4	38.2	3.09
Donaghadee	45.3	35.9	40.3	39.3	2.42
Holyhead	45.6	35.7	41.6	40.1	2.60
Liverpool	44.5	36.2	38.9	37.3	1.69
Parsonstown	46.9	35.8	39.4	38.1	2.20
Valencia	49.7	39.7	41.6	42.9	4.95
Roche's Point	48.4	39.6	43.1	41.6	4.43
Pembroke	45.5	39.4	42.1	40.9	2.82
Sally	48.9	42.8	45.6	44.4	2.71
Prawle Point	46.8	38.1	41.4	40.5	2.02
Jersey	46.0	39.3	42.3	41.0	2.55
Hurst Castle	43.7	36.7	40.3	39.3	2.25
Dover	44.4	36.1	39.2	38.1	1.05
LONDON	45.8	35.1	38.6	37.4	1.73
Oxford	45.0	34.9	37.9	36.8	1.92
Cambridge	45.6	32.8	37.3	36.2	1.46
Yarmouth	49.6	34.6	38.2	37.3	1.82

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



# GENERAL SITUATION AT 8 A.M.

## PRESSURE

Highest, 30.4 in: and upwards, over Switzerland and the central part of France.  
 Lowest, 29.5 in: and less, in a depression lying over the north of Scotland.  
 Gradients rather steep over England and the North Sea, but slight elsewhere.  
 Barometer rising generally, but rather unsteady in the extreme southwest of our Islands.

## TEMPERATURE

Highest, 52° at Leth and Pariontown, and 51° at Mullaghmore, Donaghadee, Liverpool, Valence (Ireland) Lally, London, and West.  
 Lowest, -11° East: at Haparanda, +14° at Helsingfors, 17° at Riga, 27° at Tientsin, 30° at Hankow, and 33° at Stockholm, Wisby, Skagen, and Munich.  
 During yesterday the thermometer rose to between 50° and 53° in many parts of the United Kingdom.

## WIND

S<sup>2</sup> or SW<sup>2</sup> over our Islands, Denmark, the Netherlands, and the greater part of France; light or moderate in force generally, but fresh or strong on our western coasts.  
 Moderate from the W<sup>nd</sup> in Germany and the south of Sweden; SE<sup>2</sup> or E<sup>2</sup> in the west of Norway, N<sup>2</sup> or NE<sup>2</sup> in the north of Sweden; variable in the south of France.

## WEATHER

Cloudy or overcast in most places, with rain at some of the Irish stations, fog in Denmark and Holland, and snow at Helsingfors, Haparanda, and Munich.  
 Fine and bright in the west of Norway and also in the west of France.  
 In the course of the past twenty-four hours rain has fallen in all parts of our Islands, the largest amounts being 0.6 inch at Balmallick and 0.5 inch at Ardrossan. Solar halos were seen yesterday at Oxford and Hunt Castle.

## SEA

Rough at Pembroke and rather rough at Holyhead and Lally, but moderate or slight elsewhere.

## PROBABLE CHANGES IN SYSTEM NOW PREVALENT

Depressions continue to travel along our western coasts in a north-north-westerly direction, but there are at present no signs of the approach of any serious disturbances.

# FORECASTS

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

## DISTRICTS.

## FORECASTS.

1	SCOTLAND NORTH	SW <sup>2</sup> winds, moderate to strong; dull, some rain.
2	SCOTLAND EAST	S <sup>2</sup> and SW <sup>2</sup> winds, moderate; mild, changeable, some rain.
3	ENGLAND N.E.	
4	ENGLAND EAST	SW <sup>2</sup> winds, freshening; mild, changeable, some rain.
5	MIDLAND COUNTIES	
6	ENGLAND SOUTH	

## DISTRICTS.

## FORECASTS.

6	SCOTLAND WEST	Same as No. 0.
7	ENGLAND N.W.	
8	ENGLAND S.W.	S <sup>2</sup> and SW <sup>2</sup> winds, strong, unsettled, rain at times.
9	IRELAND NORTH	
10	IRELAND SOUTH	

## WARNINGS

At 7.10 pm yesterday to part of district 0. "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 ...	29.84	38	36	SE	4	0	3	Valencia ...	29.72		50	50	S	4	g m t	5
Sumburgh Head								Scilly ...	29.93		47	47	SSE	5	g m	5
Stornoway ...	29.58	45	42	SW	3	c	3	Jersey ...	30.04		47	44	SSW	4	0	4
Aberdeen ...	29.72	45	39	WSW	4	bcg	4	Hurst Castle	30.07		45	43	SW	3	0	5
Shields ...	29.84	44	41	WSW	3	c	2	Dungeness...	30.06		46	44	WSW	5	bc	4
Ardrossan ...	29.76	43	41	S	5	0	4	North Foreland...	30.06		49	44	W	2	c	3
Malin Head ...	29.67	39	38	SSW	5	0	3	London (Westminster)	30.05		48	42	SW	2	c	4
Mullaghmore ...	29.71	41	38	SSW	6	01g	4	Yarmouth ...	30.09		45	42	WSW	3	b	3
Belmullet ...	29.64	42	41	SE	4	1	4	Rochefort ...	30.25		51	48	WSW	4	0	4
Holyhead ...	29.90	44	41	SW	3	0g	2									

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

Weather in morning fine and bright over southwestern Europe and on the southern side of the Mediterranean, as well as over several parts of France and Brittany; very foggy over southeastern and central Europe and at some Baltic stations, dull in the north. Snow falling over Finland, rain at some of our own western and northwestern stations. Showers later in all parts of the United Kingdom, and at the western and northern French stations, snow in Sweden - largest falls 0.6 in. at Belmullet and 0.5 in. at Ardrossan.

Temperature changing fitfully, falling over the northwestern countries, risen over Russia. Morning readings exceeding 50° at stations on the southern and western sides of the Mediterranean only, exceeding 40° on the eastern coast of France and the United Kingdom. Lowest here to -8°F over the Gulf of Finland, +2° at Riga, 3° at Archangel, 4° at Moscow, 5° at Uleaburg and Helsingfors; much below the freezing point in southern Hungary. Rising later to 50° and more on our southwestern coast and in the west of France, and touching 59° at Biarritz, just touching 50° at Berlin.

Wind very light and variable over northern, eastern, southern, and southwestern Europe; moderate W over Brittany, the English Channel and southeast of England, SW in Scotland; S, moderate to strong, in many parts of Ireland; S to E in Norway; SE to SW over the southern part of the Baltic. Becoming S, still more generally on our western coasts later, and increasing somewhat in force.

Barometer highest 30.5 in. and more to 30.3 in. over the Spanish Peninsula, 30.4 in. to 30.3 in. over Central and Western Russia, and exceeding 30.2 in. over southern and southeastern Europe generally and the Mediterranean. Lowest 29.5 in. and less, over the northern half of Scotland. Gradients slight to moderate. Falling in the eastern parts of the United Kingdom later, rising a little in the north and east, as well as over France.

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

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

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

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

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# DAILY WEATHER REPORT

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

1893

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

STATIONS.	YESTERDAY EVENING. (See note at bottom of last page.)					THIS MORNING. (See note at bottom of last page.)										PAST 24 HOURS.			
	Barom.	Temp.	Wind.	Force	Weather.	Barometer.	Shade Temp.	Wet Bulb.	Change in dry since Yesterday.	Wet Bulb.	Change in dry since Yesterday.	Wind.	Force	Weather.	Sea (0 to 9).	Weather.	Max.	Min.	Amount of Rainfall.
	Reading at 52° F. and Sea Level.	Dry Bulb.	Dirac.	(0 to 12).		Reading at 52° F. and Sea Level.	Dry Bulb.	Wet Bulb.	Change in dry since Yesterday.	Dry Bulb.	Change in dry since Yesterday.	Dirac.	(0 to 12).		(0 to 9).				
	Ina.	°				Ina.	°	°	°	°	°								Ina.
SCANDINAVIA.	Haparanda ...	30.40	6	Z	0	0	30.09	-06	5	5	+16	Z	0	0	0	0	10	-11	—
	Hernösand ...	30.06	14	N	2	3	30.00	-08	6	6	+18	Z	0	0	0	0	18	5	0.04
	Stockholm ...	29.95	33	WSW	2	0	29.91	-12	25	24	-5	N	2	0	0	0	37	25	—
	Wisby ...	30.03	33	W	4	0	29.99	-19	31	31	-2	SW	4	0	0	0	34	25	—
	Bodö ...	29.88	16	E	6	6	29.88	+08	15	13	-2	E	4	0	0	0	18	12	—
	Christiansund...	29.78	37	SE	2	7	29.70	-16	34	34	-4	ESE	2	0	0	0	41	34	—
	Skudesnaes ...	29.73	37	ESE	4	7	29.75	-17	36	35	-1	SE	2	0	0	0	37	24	—
	Christiania Fjord (Fjord)	29.96	27	NNE	2	f	29.84	-16	25	25	-2	N	4	0	0	0	23	21	—
	Skagen (The Scaw)	29.84	31	SE	3	5	29.76	-28	32	31	-1	ESE	2	0	0	0	34	30	0.28
	Fanö ...	29.85	37	WSW	5	0	29.73	-36	37	36	+1	WSW	3	0	0	0	27	30	0.51
BRITISH ISLANDS.	Sumburgh Head																		
	Stornoway ...	29.60	45	W	3	0	29.58	+16	41	41	-4	Z	0	0	0	0	80	35	0.02
	Wick ...	29.61	41	S	1	0	29.61	+20	37	35	-2	Z	0	0	0	0	51	32	—
	Nairn ...	29.61	43	Z	0	0	29.62	+17	33	32	-1	SW	1	0	0	0	54	30	—
	Aberdeen ...	29.67	46	NW	1	0	29.67	+12	34	33	-1	W	1	0	0	0	55	32	—
	Leith ...	29.68	50	Z	0	m	29.64	+06	45	44	-1	N	1	0	0	0	54	44	0.01
	Shields ...	29.73	53	SW	3	0	29.70	-00	47	46	-1	SW	2	0	0	0	55	44	—
	Spurn Head ...	29.84	49	SSW	4	0	29.76	-11	45	45	-2	SSW	2	0	0	0	52	43	0.02
	York ...	29.87	52	SSW	3	0	29.74	-10	50	49	-1	S	1	0	0	0	56	48	—
	Loughborough	29.90	52	SW	2	0	29.80	-14	49	48	-1	SSW	2	0	0	0	55	48	—
GERMANY & HOLLAND.	Ardrossan ...	29.67	45	SSW	1	0	29.63	-00	46	46	+1	ENE	3	0	0	0	46	44	—
	Malin Head ...	29.68	47	SE	2	0	29.48	-10	47	45	-2	SSE	4	0	0	0	30	46	0.05
	Mullaghmore ...	29.68	49	S	3	0	29.46	-13	49	47	-2	SSE	4	0	0	0	52	47	0.02
	Belmullet ...	29.66	49	S	3	0	29.33	-29	49	48	-1	E	5	0	0	0	53	46	—
	Donaghadee ...	29.70	49	SW	3	0	29.62	-06	45	45	-1	S	3	0	0	0	51	43	0.02
	Liverpool (Bidston)	29.82	52	SW	3	0	29.72	-14	48	47	-1	SE	3	0	0	0	54	47	0.01
	Holyhead ...	29.78	47	SSW	5	0	29.67	-13	47	47	-1	S	4	0	0	0	49	44	0.07
	Parsonstown ...	29.69	52	Z	0	0	29.46	-22	51	50	-1	SE	1	0	0	0	56	47	—
	Valencia ...	29.68	50	S	4	0	29.24	-46	53	51	+2	SSE	7	0	0	0	53	49	0.15
	Roche's Point	29.78	49	SSW	5	f	29.42	-31	50	50	-1	S	7	0	0	0	51	48	0.15
FRANCE AND BELGIUM.	Pembroke (St. Ann's Hd.)	29.83	48	SW	6	f	29.67	-16	47	47	-1	S	4	0	0	0	49	47	0.15
	Scilly ...	29.68	57	S	5	m	29.61	-17	51	49	-2	S	7	0	0	0	50	45	0.22
	Prawle Point ...	29.97	48	SSW	7	0	29.81	-15	46	46	-1	SSW	4	0	0	0	50	45	0.12
	Jersey (St. Aubin's)	30.12	52	SSE	3	0	29.91	-21	48	45	-3	SSE	3	0	0	0	53	46	0.04
	Hurst Castle ...	30.05	48	SW	6	0	29.91	-14	47	46	-1	SSW	6	0	0	0	51	45	0.37
	Dungeness ...	30.07	48	SW	5	0	29.91	-18	46	46	-1	SW	4	0	0	0	48	45	0.27
	North Foreland	30.05	48	SW	2	0	29.89	-19	47	47	-1	SW	2	0	0	0	53	46	0.19
	London ...	30.02	52	SW	4	0	29.87	-20	49	48	-1	SW	3	0	0	0	54	46	0.14
	Oxford ...	29.96	49	SW	3	0	29.83	-13	48	47	-1	S	2	0	0	0	54	47	0.11
	Cambridge ...	29.97	50	SW	3	0	29.84	-13	48	48	-1	SSW	1	0	0	0	54	46	—
PENINSULA.	Yarmouth ...	29.98	51	SW	5	0	29.84	-14	48	47	-1	SW	3	0	0	0	55	45	0.01
	Cuxhaven ...	30.02	44	SSW	3	0	29.88	-10	44	43	-1	WSW	4	0	0	0	45	42	0.30
	Berlin ...	30.14	39	W	3	0	29.94	-20	45	45	-1	WSW	3	0	0	0	45	37	0.24
	Wiesbaden ...	30.12	38	W	3	0	30.12	-18	39	38	-1	Z	0	0	0	0	39	34	0.04
	Munich ...	30.31	35	W	2	0	30.19	-17	36	36	-1	SW	3	0	0	0	36	33	0.24
	The Helder ...	30.00	42	SW	5	0	29.92	-18	43	42	-1	SW	4	0	0	0	45	37	0.12
	Brussels (a.m.)	30.00	47	SW	4	0	30.00	-18	47	44	+3	SSW	4	0	0	0	51	43	—
	Cape Gris Nez	30.06	46	SW	4	0	29.92	-17	47	45	+2	SW	4	0	0	0	48	43	0.08
	Paris ...	30.26	50	SSW	2	0	30.06	-22	45	41	-4	S	2	0	0	0	57	40	—
	Brest ...	30.15	50	SW	5	0	29.98	-18	48	48	-1	SSE	5	0	0	0	52	46	0.20
GERMANY & HOLLAND.	Lorient ...	30.15	50	SSE	4	0	29.88	-34	48	46	-2	SSE	5	0	0	0	52	45	—
	Rochefort ...	30.20	63	SSE	3	0	29.98	-32	45	44	-1	SSE	4	0	0	0	61	34	—
	Belfort ...	30.21	43	WSW	1	0	30.21	-23	31	31	-1	W	3	0	0	0	46	30	—
	Lyons ...	30.36	47	N	1	0	30.21	-23	31	31	-1	S	1	0	0	0	54	29	—
	Nice ...	30.25	47	SW	1	0	30.21	-26	43	42	-1	E	1	0	0	0	55	41	—
	Perpignan ...	30.25	55	SE	2	0	30.18	-19	39	38	-1	SW	2	0	0	0	68	36	—
	Biarritz ...	30.19	62	S	4	0	30.02	-27	54	46	+8	S	2	0	0	0	70	45	—
	Corunna ...	30.23	54	SSE	3	0	30.13	-22	53	52	-1	SSE	3	0	0	0	57	46	—
	Lisbon ...	30.23	54	SSE	3	0	30.13	-22	53	52	-1	SSE	3	0	0	0	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, 19<sup>th</sup> Feb.

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:

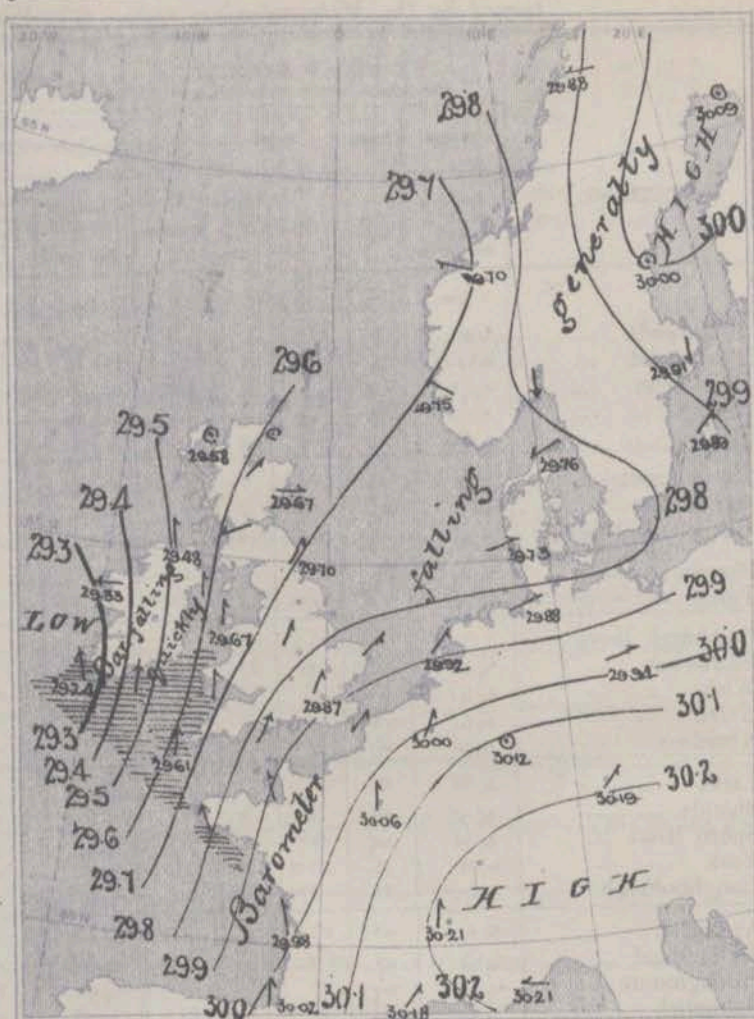
— Rough, — High

## MEAN HEIGHT OF THE BAROMETER

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

During the 20 Years, 1871—1890.

STATIONS.	MEAN READINGS.
Sumburgh Head	29.775
Stornoway	29.773
Wick	29.804
Nairn	29.811
Aberdeen	29.848
Leith	29.870
Shields	29.906
Spurn Head	29.994
York	29.999
Loughborough	29.903
Ardrumhan	29.873
Mullaghmore	29.854
Donaghadee	29.884
Holyhead	29.914
Liverpool	29.934
Parsonstown	29.900
Valencia	29.910
Roche's Point	29.916
Pembroke	29.937
Sally	29.959
Prawle Point	29.993
Jersey	30.007
Hurst Castle	29.989
Dover	29.985
LONDON	29.980
Oxford	29.985
Cambridge	29.979
Yarmouth	29.964



## 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.

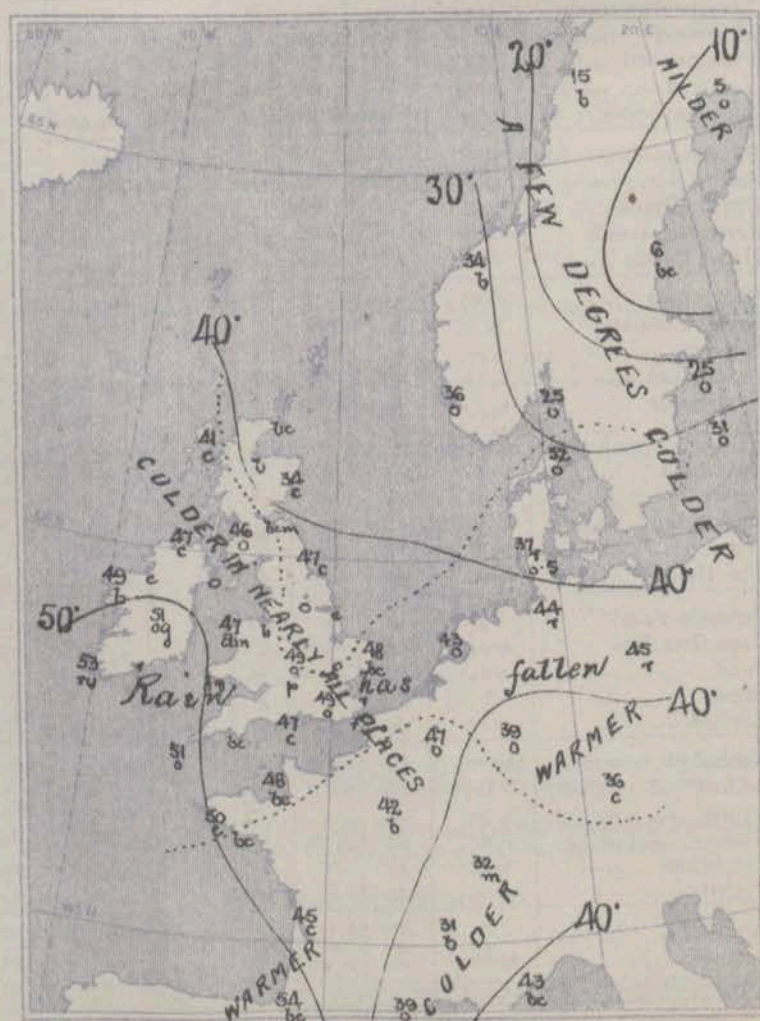
**RAINFALL**—A dotted line separates the districts in which rain has fallen from those where there has been none. Falls of 0.5 in. or more are quoted in figures.

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

(For the month of February.)

STATIONS.	TEMPERATURE.				RAINFALL. (Inches.)
	Daily Max.	Daily Min.	at 8 a.m. Dry.	Wet.	
Sumburgh Head	42.4	34.5	38.5	37.4	3.19
Stornoway	43.6	34.6	39.1	38.1	3.95
Wick	43.1	35.2	38.1	36.7	2.04
Nairn	43.4	33.4	37.1	35.4	1.48
Aberdeen	43.2	33.8	37.3	35.7	2.35
Leith	45.7	34.3	38.6	37.1	1.45
Shields	43.8	35.1	38.6	37.3	1.50
Spurn Head	42.3	35.9	38.4	37.6	1.86
York	44.6	33.9	37.5	36.4	1.70
Loughborough	45.3	32.9	37.5	36.4	1.78
Ardrumhan	44.6	35.3	39.4	38.2	3.04
Mullaghmore	46.6	38.6	42.0	40.3	3.09
Donaghadee	45.6	32.9	40.3	39.3	2.42
Holyhead	46.6	38.7	41.5	40.1	2.60
Liverpool	44.6	36.2	38.9	37.3	1.69
Parsonstown	46.9	35.6	39.4	38.1	2.29
Valencia	49.7	40.7	44.0	42.9	4.95
Roche's Point	48.4	39.8	43.1	41.6	4.43
Pembroke	45.5	39.4	42.1	40.9	2.82
Sally	48.9	42.8	46.0	44.4	2.71
Prawle Point	46.8	38.1	41.3	40.5	2.02
Jersey	48.9	39.3	42.3	41.0	2.55
Hurst Castle	45.7	36.7	40.3	39.3	2.25
Dover	44.4	36.1	39.2	38.1	1.65
LONDON	45.6	35.1	38.6	37.4	1.73
Oxford	45.0	34.5	37.9	36.8	1.92
Cambridge	45.3	32.8	37.3	36.2	1.46
Yarmouth	49.6	34.5	38.2	37.3	1.82

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



# GENERAL SITUATION AT 8 A.M.

## PRESSURE

Highest, 30.2 in: and upwards, over the southeastern part of France; 30.0 in: and upwards over the Gulf of Bothnia.  
 Lowest, 29.3 in: and less, in a depression lying off the west of Ireland.  
 Gradients rather steep over our western coasts and moderate in the south, but slight in the north and east.  
 Barometer falling generally, — quickly, in the southwest of our Islands.

## TEMPERATURE

Highest, 54° at Harritz, 53° at Valencia (Ireland) and Leaton, 51° at Llanonstown and Kelly, and 50° at Rocherpoint and Brest.  
 Lowest, 5° at Haparanda, 6° at Hovissand, 15° at Bodö, 25° at Stockholm and Tønder, and 31° at Västby.  
 During yesterday the thermometer rose to between 50° and 55° in nearly all parts of the Kingdom, and to 56° at Llanonstown, York and Cambridge.

## WIND

S<sup>W</sup> over England, Ireland, the Netherlands, and the greater part of France; strong to a gale on our southwestern coasts, but light or moderate elsewhere.  
 Light and variable in Scotland; SE<sup>W</sup> or E<sup>W</sup> in the west of Norway; calm over the northern parts of Sweden.

## WEATHER

Cloudy or overcast in most parts of Ireland and England, with rain in the south of Ireland and on the coast of Kent.  
 Fine in Scotland and many parts of Scandinavia as well as in France; dull and rainy in Denmark and Germany.  
 Rain fell yesterday at most of the western and southern stations, as well as in some few parts of our northern districts.

## SEA

Rough at Bernerke and rather rough on our southwestern coasts generally as well as at Lorient, but slight or smooth elsewhere.

## PROBABLE CHANGES IN SYSTEM NOW PREVALENT

# FORECASTS

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

## DISTRICTS.

## FORECASTS.

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

*None issued.*

## DISTRICTS.

## FORECASTS.

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

## WARNINGS

*None issued*

At 9.40 am to all our 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 ...	29.85	37	36	SE	6	r	3	Valencia ...	29.71	53	52	S	3	om	4
Sumburgh Head ...								Scilly ...	29.89	52	51	S	6	om	5
Stornoway ...	29.57	50	48	W	3	c	3	Jersey ...	30.16	55	51	S	3	c	3
Aberdeen ...	29.60	52	49	WNW	3	bc	3	Hurst Castle ...	30.07	51	48	SSW	6	cy	4
Shields ...	29.75	53	50	SW	4	c	2	Dungeness ...	30.09	48	47	SW	5	c	4
Ardrossan ...	29.46	46	46	SW	4	c	4	North Foreland ...	30.07	51	50	SW	4	c	3
Malin Head ...	29.65	50	49	SW	1	o	1	London ...	30.05	54	50	SSW	3	o	*
Mullaghmore ...	29.66	50	50	W	3	om	3	Yarmouth ...	29.94	54	51	SW	4	bc	4
Belmullet ...	29.66	53	52	SW	1	b	2	Rochefort ...	30.27	35	51	SSE	4	b	*
Holyhead ...	29.77	48	48	SSW	5	bm	5								

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

Weather in morning fine and bright on the southern shores of the Mediterranean, as well as over Norway and Lapland, fair over Russia, cloudy or overcast elsewhere, with rain at many of our western stations, rain and sleet in many parts of Germany, fog over the Baltic, Poland, and Hungary. Rain falling later over the western and southern parts of our Islands—not heavily—as well as over the north of France, Germany, Denmark, and the Netherlands, snow over the Baltic and north of Russia.

Temperature still changing very fitfully, risen decidedly over the United Kingdom, and still more over the Baltic Provinces and Gulf of Finland, fallen fast over southern Russia. Morning readings exceeding 50° at several Mediterranean stations, and also in many of the western and southern parts of our Islands and at Leth—above 45° on the east coast of England, and above 40° in the northeast. Lowest -11° F. at St. Petersburg, -6° at Arkhangel, -2° at Moscow, 0° (zero) at Archangel and Ulenborg, and much below the freezing point over Northern Europe generally. Rising later to 55° or a little more in many parts of our Islands later, to 61° at Rochefort, to 60° and more over Algeria and southern Italy, and to 70° at Biarritz. Succeeding night very mild.

Wind light and very variable over Russia and northern Europe. W over Germany, S over Poland, and the Baltic Provinces, chiefly SW over the United Kingdom and North Sea (strong at our western and southwestern stations, but SE in Norway, and E over the Spanish Peninsula). Becoming more S over Ireland and England later, and shifting more to the W over North Germany, more to the eastward over Denmark and the south of Norway, and to the SW over Spain.

Barometer highest 30.5 in. and more to 30.3 in. over Spain, the southern and central parts of France and South Germany, and 30.4 in. and more to 30.3 in. over Russia. Lowest 29.5 in. and less over the northern half of Scotland and the neighbouring parts of the Atlantic and 30.0 in. and less in a small shallow system at the mouth of the Gulf of Finland. Rising at our northern stations later, but beginning to fall decidedly in 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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# DAILY WEATHER REPORT

for 8 a.m. on *Monday, 20<sup>th</sup> February, 1893*

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

METEOROLOGICAL OFFICE, 63, VICTORIA STREET, LONDON. R. H. SCOTT, Secretary.																																					
STATIONS.	YESTERDAY EVENING. (See note at bottom of last page.)						THIS MORNING. (See note at bottom of last page.)								-PAST 24 HOURS.																						
	BAROM.		TEMP.		WIND.		BAROMETER.		SHADE TEMP.			WIND.			SHADE TEMP.		Amount of Rainfall.																				
	Reading at 32° F. and Sea Level.		Dry Bulb.		Direc.		Force (0 to 12).		Weather.		Reading at 32° F. and Sea Level.		Change since 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 ...	30.02	4	NE	2	0	29.89	-20	1	1	-4	2	0	C	0	?	3																				
	Hernösand ...	30.09	4	N	2	0	30.00	-00	3	2	-3	1	2	C	0	16	1																				
	Stockholm ...	29.94	4	WSW	2	C	29.90	-01	4	4	-16	1	2	S	0	36	1																				
	Wisby ...	29.86	21	N	4	0	29.85	-04	16	15	-15	1	4	S	0	36	1																				
	Bodö ...	29.88	13	E	6	0	29.83	-05	12	10	-3	1	7	S	0	16	5																				
	Christiansund...	29.67	30	SE	2	0	29.55	-15	37	36	+3	0	2	0	2	37	34	0.12																			
	Skudesnaes ...	29.76	36	S	4	0	29.66	-09	35	34	-1	0	6	0	4	37	34																				
	Christiania Fjord (Færd)	29.82	30	N	2	0	29.76	-08	27	27	+2	0	3	0	1	30	25																				
	Skagen (The Scaw)	29.79	32	E/NE	2	0	29.76	-00	31	29	-1	0	1	0	0	36	30																				
	Fanö ...	29.71	34	HW	2	0	29.67	-06	31	31	-6	0	2	0	0	37	31	0.04																			
BRITISH ISLANDS.	Sumburgh Head	29.44	47	Z	0	0	29.31	-27	45	44	+4	0	3	0	3	50	40	0.02																			
	Stornoway ...	29.46	42	SW	1	bc	29.29	-32	41	41	+4	0	3	0	2	42	36	0.03																			
	Wick ...	29.48	43	Z	0	b	29.32	-30	41	40	+8	0	0	0	47	31																					
	Nairn ...	29.56	45	S	2	cm	29.40	-27	41	40	+7	0	2	0	46	34																					
	Aberdeen ...	29.52	49	Z	0	c	29.40	-24	45	42	0	0	2	0	54	43																					
	Leith ...	29.57	50	SE	3	c	29.45	-25	44	42	-3	0	2	0	56	43																					
	Shields ...	29.61	45	SSE	3	bc	29.54	-22	41	39	-4	0	3	0	53	40																					
	Spurn Head ...	29.62	52	S	1	b	29.51	-23	40	39	-10	0	1	0	57	40																					
	York ...	29.64	50	SE	2	b	29.57	-23	36	35	-13	0	1	0	60	35	0.01																				
	Loughborough	29.47	50	E	2	0	29.39	-24	42	42	-4	0	2	0	50	41	0.01																				
GERMANY & HOLLAND.	Ardrossan ...	29.25	47	SSE	7	ogt	29.33	-15	42	41	-5	0	4	0	51	41																					
	Malin Head ...	29.23	51	SSE	5	c	29.37	-09	43	41	-6	0	3	0	53	44	0.02																				
	Mullaghmore ...	29.18	48	S	3	bc	29.36	+03	44	40	-5	0	2	0	42	43	0.06																				
	Belmullet ...	29.42	49	SSW	7	0	29.42	-20	38	38	-7	0	4	0	50	34	0.17																				
	Donaghadee ...	29.55	52	SE	3	0	29.50	-22	39	38	-9	0	2	0	57	38	0.05																				
	Liverpool (Bidston)	29.47	48	S	5	ogt	29.47	-20	42	41	-5	0	2	0	58	41	0.14																				
	Holyhead ...	29.29	48	SW	1	c	29.44	-02	39	38	-12	0	0	0	53	38	0.15																				
	Parsonstown ...	29.25	47	S	5	c	29.50	+26	42	40	-11	0	2	0	53	41	0.14																				
	Valencia ...	29.36	46	SW	6	bc	29.50	+08	42	40	-8	0	2	0	51	40	0.20																				
	Roche's Point	29.47	47	S	4	c	29.48	-19	43	43	-4	0	4	0	49	43	0.08																				
FRANCE AND BELGIUM.	Pembroke (St. Ann's Hd.)	29.53	45	WSW	6	c	29.60	-01	46	44	-5	0	5	0	52	41	0.30																				
	Scilly ...	29.59	46	SW	6	c	29.57	-24	45	44	-1	0	6	0	57	41	0.12																				
	Prawle Point ...	29.70	51	SW	4	ogt	29.70	-21	46	44	-2	0	5	0	53	42	0.16																				
	Jersey (St. Aubin's)	29.70	50	SSW	5	c	29.56	-35	43	43	-4	0	7	0	51	42	0.07																				
	Hurst Castle ...	29.72	48	SW	2	bc	29.64	-27	44	42	-2	0	4	0	52	43	0.01																				
	Dungeness ...	29.71	45	S	1	b	29.64	-25	43	42	-4	0	2	0	54	41																					
	North Foreland	29.69	51	SE	2	b	29.61	-26	42	40	-7	0	2	0	59	39																					
	London ...	29.61	49	S	2	0	29.56	-27	40	39	-8	0	1	0	57	39																					
	Oxford ...	29.68	47	SSW	1	c	29.59	-25	39	38	-9	0	2	0	59	35	0.01																				
	Cambridge ...	29.73	48	SW	2	bc	29.61	-23	41	40	-7	0	2	0	52	39																					
PENINSULAR.	Yarmouth ...	29.77	41	W	4	T	29.67	-21	39	38	-5	0	1	0	45	38	0.14																				
	Cuxhaven ...	29.76	46	W	2	T	29.67	-27	45	45	0	0	2	0	46	45	0.59																				
	Berlin ...	29.97	39	SW	2	b	29.78	-34	36	36	-3	0	1	0	48	36																					
	Wiesbaden ...	29.78	43	SW	1	0	29.83	-36	37	35	+1	0	4	0	48	36																					
	Munich ...	29.78	43	SW	1	0	29.65	-27	37	36	-6	0	1	0	45	34																					
	The Helder ...	29.75	43	SW	3	0	29.75	-25	43	41	-4	0	3	0	44	42																					
	Brussels (9 a.m.)	29.75	42	WSW	4	0	29.75	-17	42	41	-5	0	4	0	44	41																					
	Cape Gris Nez	29.83	48	SSE	2	0	29.83	-23	43	41	+1	0	2	0	58	42																					
	Paris ...	29.73	49	WSW	6	bc	29.79	-09	47	43	-1	0	5	0	52	41	0.28																				
	Brest ...	29.67	52	W	4	0	29.93	-05	46	45	+1	0	4	0	57	41	0.04																				
PENINSULAR.	Lorient ...	29.67	45	W	3	m	29.93	-05	39	37	+7	0	3	0	57	41	0.04																				
	Rochefort ...	29.98	51	S	2	c	29.96	-25	40	39	+9	0	7	0	57	31	0.12																				
	Belfort ...	30.10	46	WSW	1	0	29.96	-25	42	41	-1	0	1	0	57	41																					
	Lyons ...	30.02	52	NE	2	0	30.02	-16	48	44	+9	0	3	0	57	45																					
	Nice ...	29.91	59	W	5	0	30.02	-00	50	45	-4	0	5	0	64	45	0.28																				
	Perpignan ...	30.20	53	W	3	0	30.28	+15	51	48	-2	0	3	0	59	50	0.64																				
	Biarritz ...	30.20	53	W	3	0	30.28	+15	51	48	-2	0	3	0	59	50	0.64																				
	Corunna ...	30.20	53	W	3	0	30.28	+15	51	48	-2	0	3	0	59	50	0.64																				
	Lisbon ...	30.20	53	W	3	0	30.28	+15	51	48	-2	0	3	0	59	50	0.64																				

For Explanation of Columns, see bottom of last page

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

# WEATHER CHARTS

for 8 a.m. on Monday, 20<sup>th</sup> February, 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

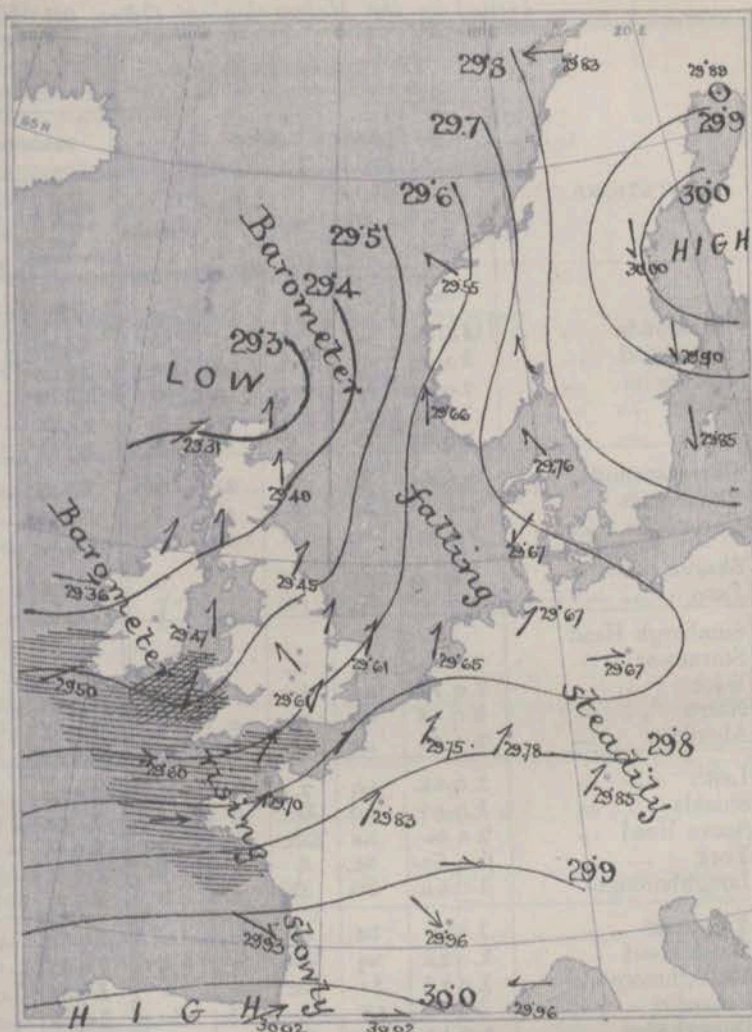
■ = Rough. ■ = High.

### MEAN HEIGHT OF THE BAROMETER

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

During the 30 Years: 1871—1890.

STATIONS.	MEAN READINGS.
Sumburgh Head	29.775
Stornoway	29.773
Wick	29.804
Nairn	29.814
Aberdeen	29.848
Leith	29.870
Shields	29.906
Spurn Head	29.934
York	29.930
Loughborough	29.963
Ardrossan	29.973
Mullaghmore	29.984
Donaghadee	29.881
Holyhead	29.911
Liverpool	29.934
Parsonstown	29.908
Valencia	29.919
Roche's Point	29.946
Pembroke	29.937
Sally	29.960
Prawle Point	29.903
Jersey	30.007
Hurst Castle	29.986
Dover	29.985
LONDON	29.999
Oxford	29.955
Cambridge	29.979
Yarmouth	29.964



## 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.

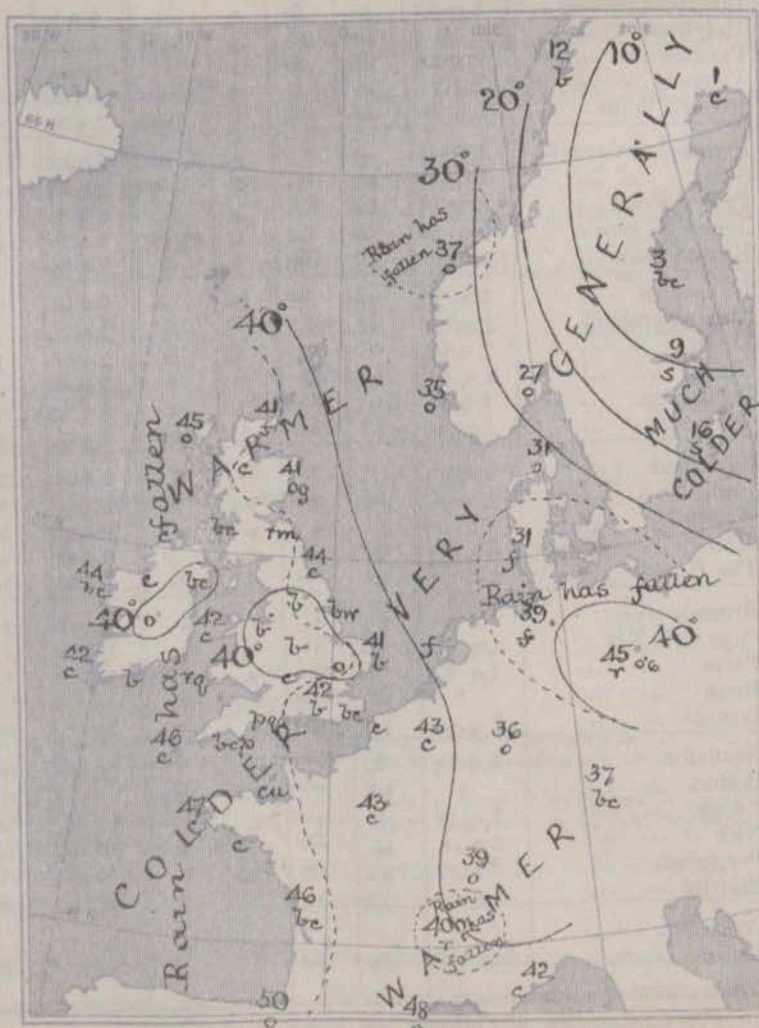
**RAINFALL**—A dotted line separates the districts in which rain has fallen from those where there has been none. Falls of 0.5 in. or more are quoted in figures.

### MEANS OF TEMPERATURE IN SHADE, AND RAINFALL

(For the month of February.)

STATIONS.	TEMPERATURE				RAINFALL (Inches)
	Daily Max.	Daily Min.	Iny.	Wel.	
Sumburgh Head	42.4	31.5	58.5	37.4	3.19
Stornoway	40.5	34.6	59.1	39.1	0.86
Wick	43.1	33.2	58.1	38.7	2.01
Nairn	43.4	33.4	57.1	35.4	1.48
Aberdeen	43.2	33.8	57.3	35.7	2.35
Leith	45.7	34.3	58.6	37.1	1.45
Shields	48.8	35.1	58.6	37.3	1.50
Spurn Head	42.3	33.0	58.4	37.6	1.30
York	44.0	33.9	57.5	36.4	1.78
Loughborough	45.3	33.9	57.5	36.4	1.78
Ardrossan	41.0	32.3	55.4	35.2	3.04
Mullaghmore	45.0	35.0	42.0	40.3	2.09
Donaghadee	45.0	35.0	40.3	39.3	2.42
Holyhead	45.5	35.7	41.0	40.1	2.50
Liverpool	44.0	35.2	38.9	37.3	1.59
Parsonstown	46.0	35.0	39.4	38.1	2.20
Valencia	49.7	40.2	44.0	42.9	1.56
Roche's Point	48.4	39.6	43.1	41.8	4.40
Pembroke	45.0	39.4	42.1	40.9	2.82
Sally	48.0	42.3	40.0	44.4	2.74
Prawle Point	46.8	38.1	41.6	40.6	2.02
Jersey	45.0	39.0	42.3	41.0	2.55
Hurst Castle	45.7	36.7	40.3	39.3	2.25
Dover	44.1	36.1	39.2	38.1	1.95
LONDON	45.5	35.1	38.0	37.4	1.73
Oxford	45.0	34.0	37.0	36.8	1.02
Cambridge	45.5	32.8	37.3	36.2	1.16
Yarmouth	49.5	34.5	38.2	37.5	1.93

NOTE.—The Temperature means are for the 30 years 1871-90, the Rainfall means are mainly those for the 25 years 1866-90.



# GENERAL SITUATION AT 8 A.M.

## PRESSURE

Highest, 30.2 in: and upwards over the southern parts of the Spanish Peninsula; 30.0 in: and upwards over the Gulf of Bothnia.  
Lowest, 29.4 in: and lies in a large shallow depression lying over Scotland and the north of Ireland.

Gradients moderate or slight generally. Barometer rising at most of the western stations in our Islands and France, but steady at Talence (France); falling in the eastern and southern parts of Great Britain, and also in Scandinavia, Denmark and Germany.

## TEMPERATURE

Highest, 51° at Lisbon, 50° at Biarritz, 48° at Paris, 47° at Brest and Saint, and 46° at Brest, Jersey, and Rochefort.

Lowest, 1° at Haparanda, 3° at Helsingfors, 9° at Stockholm, 12° at Helsingfors, 16° at Murby, and 27° at Tander.

During yesterday the thermometer rose to 55° and upwards in many parts of England; at Loughborough it reached 60°.

## WIND

Light or moderate from the S.W. in all the more northern parts of the United Kingdom, but S.W. or W. on our southern coast, as well as in France, Germany and the Netherlands, and strong in force at the Channel stations.

SE or E in Norway and Denmark, but N. in Sweden.

Moderate to fresh gales from the S.W. were experienced yesterday on several of the more exposed parts of our western coast.

Fine at many of the English and Irish stations, but rainy at Pembroke and showery at Hunt Castle.

Cloudy or overcast in Scotland, as well as at most of the Continental stations; fog reported at Tanc, Cuthbert, and the Helder, rain at Berlin and Lyons, and snow in the south of Sweden.

In the course of the past 24 hours rain has fallen at most of our western, southern, and extreme northern stations.

## WEATHER

## SEA

High at Pembroke, and rough or rather so on our southwest coasts generally, as well as off the northwest of France.

## PROBABLE CHANGES IN SYSTEM NOW PREVALENT

Small secondary depressions are advancing over our Islands from the W.W., and unsettled showery weather is likely to prevail in many districts, with strong and gusty winds on our southern and southwestern coasts.

# FORECASTS

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

## DISTRICTS.

## FORECASTS.

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

S<sup>W</sup> and S<sup>W</sup> winds, light or moderate; changeable, some showers.  
  
S<sup>W</sup> and S<sup>W</sup> winds, strong to W<sup>W</sup> moderate; squally and showery at first, improving temporarily later.

## DISTRICTS.

## FORECASTS.

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

Same as W 0 to 2.

W<sup>W</sup> winds, backing later, fair to unsettled and some rain.

## WARNINGS

At 10.20 am today 70 districts 0 to 2 and 6 Lower Cone. The signals are still flying in districts 3, 5, and 7 to 10.

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

# YESTERDAY'S 2 P.M. REPORTS.

	BAR.	THER.		WIND. Dirac.	F.	WEA.	SEA.		BAR.		THER.		WIND. Dirac.	F.	WEA.	SEA.
		Dry.	Wet.								Dry.	Wet.				
Skudesnaes ...	29.78	57	35	SSW	4	0	3	Valencia ...								
Sumburgh Head ...								Scilly ...								
Stornoway ...	29.50	48	47	2	0	C	2	Jersey ...	29.75	52	47	S	4	cgm	3	
Aberdeen ...								Hurst Castle ...								
Shields ...								Dungeness ...	29.79	52	50	SW	3	6	2	
Ardrossan ...								North Foreland ...	29.81	55	54	S	2	6	3	
Malin Head ...	29.30	50	48	SSE	7	C	2	London ...								
Mullaghmore ...								Yarmouth ...								
Belmullet ...	29.15	51	50	SE	5	0		Rocheport ...	29.68	55	51	SSW	3	C		
Holyhead ...	29.63	52	48	SSE	4	C	4									

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

Weather in morning fine generally over the Mediterranean and S.<sup>m</sup> Europe, as well as in some parts of France, the E. of Scotland and the W. of Norway; cloudy or overcast in most other places, with rain at several of our W.<sup>m</sup> and S.<sup>m</sup> stations, as well as over N. Germany; snow at Hermandstätt, Neufahrwasser, Stockholm and over the Gulf of Finland. Continuing very fine over the E.<sup>m</sup> half of England during the day, but somewhat rainy in the W. and over Ireland.

Temperature changing frequently and suddenly; fallen decidedly in Scotland, morning readings exceeding 50° in the extreme S. and SW. of Europe, as well as on the SW. coasts of the British Islands, exceeding 40° over France and England, but as low as 33° to 34° in the E. of Scotland; lowest (1) 4° at Archangel and Ulesborg, 6° at Heriösand, 7° at Kuopio, 14° at St. Petersburg, (2) 1° at Odessa, 4° at Kharkov, 12° at Moscow. Rising later to between 55° and 60° over many parts of England, and to 50° or more in Ireland and at Leith, touching 64° at Biarritz.

Wind S.<sup>4</sup> over the United Kingdom, the N. of France and the Bay of Biscay — moderate to a gale at the W.<sup>m</sup> stations, light to moderate over the Channel and England, calm in Scotland — light SE.<sup>4</sup> to E.<sup>4</sup> in Norway. Very light and variable over N.<sup>m</sup> E.<sup>m</sup>, central and S.<sup>m</sup> Europe. Steering to SW. on our S.W. coasts later, and to W. over the Bay of Biscay.

Barometer highest 30.3 ins. and more over Algiers and the SE. of Spain, 30.4 ins. and more to 30.5 ins. over S.<sup>m</sup> Russia, and exceeding 30.5 ins. over the greater part of the Continent. Lowest 29.3 ins. and less over the W. of Ireland and neighbouring parts of the Atlantic, 29.8 ins. and less in a secondary disturbance over Denmark and the S. of Sweden, and 29.9 ins. and less in another shallow disturbance over the Gulf of Finland. Falling somewhat over W.<sup>m</sup> Europe during the day, but inclined to rise over Scandinavia.

## SUMMARY OF CHANGES IN THE WEATHER OVER THE BRITISH ISLANDS AND THEIR NEIGHBOURHOOD FROM THE 12<sup>TH</sup> TO 19<sup>TH</sup> FEB. 1893

The weather of this period was very unsettled, with frequent rains in all parts of the United Kingdom, and with gales on most of our coasts. Thunder and lightning were occasionally reported in the west, and aurora was seen in many parts of Scotland on the nights of the 8<sup>th</sup> and 16<sup>th</sup>.

During the greater part of the week two anticyclonic systems were in existence, — one over Sweden and the other over Spain or the south of France. Several depressions passed in a NNE.<sup>4</sup> direction over our western and northern coasts, occasioning heavy rain in Ireland and the west of Scotland, and freshening S.<sup>4</sup> or SW.<sup>4</sup> winds over the United Kingdom generally. The only really important disturbance, however, was that of the 13<sup>th</sup> to 14<sup>th</sup>, the centre of which advanced quickly over Ireland on the night of the former date and afterwards travelled in a NNE.<sup>4</sup> direction across Scotland. The minimum readings were below 28.7 ins., and the passage of the depression was attended by gales on nearly all coasts, the SE.<sup>4</sup> gale experienced in the N.E. of Scotland on the morning of the 14<sup>th</sup> reaching the force of a "storm."

Temperature was rather low at the commencement of the week, especially in Scotland, where sharp frost occurred on the night of the 12<sup>th</sup>. On the 13<sup>th</sup> and 14<sup>th</sup>, however, the thermometer rose decidedly, and for the remainder of the week it was above the average for the time of year.

## 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 TUESDAY, 21<sup>st</sup> FEBRUARY, 1893

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

PUBLISHED 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.	Dirce.	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.	Dirce.	Force (0 to 12).	Weather.	Sea (0 to 9).	Weather.	Max.		Min.
Inch.	°					Inch.	°	°	°								°	in.
SCANDINAVIA.																		
Haparanda ...	29.81	4	2	0	0	29.75	-14	-6	-7	N	4	6	*	0	9	2	—	—
Hernösand ...	29.87	-12	2	0	0	29.87	-13	0	0	-3	N	2	0	0	6	10	-15	—
Stockholm ...	29.86	7	ENE	2	0	29.75	-11	6	6	-3	NE	2	0	0	0	10	5	0.04
Visby ...	29.83	15	NE	4	0	29.72	-12	15	14	-1	SE	4	0	0	0	10	12	—
Bodö ...	29.82	18	E	6	0	29.84	+1	14	12	+2	E	5	0	0	0	19	9	—
Christiansund...	29.44	35	ESE	2	0	29.44	-07	32	31	-5	ESE	2	0	0	0	41	02	0.05
Skudesnaes ...	29.56	34	S	7	0	29.58	-31	36	33	+1	ESE	4	0	0	0	36	34	—
Christiania Fjord (Færdler)	29.67	29	ENE	2	0	29.58	-10	24	24	-3	E	2	0	0	0	30	24	—
Skagen (The Scaw)	29.65	28	ENE	4	0	29.53	-23	25	25	-6	SE	5	0	0	0	32	23	—
Fanö ...	29.57	33	E	4	7	29.57	-40	33	33	+2	ESE	4	0	0	0	36	31	0.04
BRITISH ISLANDS.																		
Sumburgh Head	29.23	44	SW	2	0	29.23	-28	3	36	-8	SW	2	0	0	0	46	35	—
Stornoway ...	29.22	42	S	1	0	29.07	-22	42	41	+1	S	2	0	0	0	47	38	0.02
Wick ...	29.24	40	2	0	0	29.24	-28	35	34	-6	2	0	0	0	0	45	32	—
Nairn ...	29.30	42	S	2	0	29.07	-33	40	39	-1	SE	4	0	0	0	47	38	—
Aberdeen ...	29.30	42	S	2	0	29.07	-33	40	39	-1	SE	4	0	0	0	47	38	—
Leith ...	29.30	42	SW	2	0	29.02	-38	37	36	-8	SE	2	0	0	0	50	36	0.01
Shields ...	29.30	44	SW	2	0	29.03	-46	41	40	-3	E	2	0	0	0	49	36	—
Spurn Head ...	29.40	42	SW	2	0	29.06	-68	40	39	-1	E	5	0	0	0	47	35	0.04
York ...	29.40	45	S	1	0	29.01	-60	40	39	0	ENE	1	0	0	0	49	36	0.04
Loughborough	29.44	43	SW	2	0	29.03	-74	40	39	+4	ESE	2	0	0	0	49	36	0.20
GERMANY & HOLLAND.																		
Ardrossan ...	29.27	42	S	2	0	29.00	-35	38	37	-4	NE	2	0	0	0	48	34	0.05
Malin Head ...	29.25	41	SW	2	0	29.00	-33	37	36	-5	S	1	0	0	0	48	35	0.04
Mullaghmore ...	29.23	43	SW	1	0	29.00	-33	37	36	-5	S	1	0	0	0	48	35	0.04
Belmullet ...	29.28	44	SW	2	0	29.04	-32	37	37	-7	SW	2	0	0	0	49	34	0.16
Donaghadee ...	29.32	42	SW	2	0	29.08	-44	41	40	+3	ESE	2	0	0	0	46	37	0.12
FRANCE AND BELGIUM.																		
Liverpool (Bliston)	29.37	41	SW	2	0	29.03	-63	39	39	0	ENE	4	0	0	0	47	37	0.05
Holyhead ...	29.36	43	SW	2	0	29.06	-61	39	38	-3	ENE	5	0	0	0	48	38	0.04
Parsonstown ...	29.28	43	2	0	0	29.07	-27	36	35	-3	2	0	0	0	0	48	38	—
Valencia ...	29.22	45	E	3	0	29.04	-46	43	40	+1	ENE	6	0	0	0	48	40	0.21
Roche's Point	29.27	46	S	4	0	29.02	-58	42	40	0	NE	6	0	0	0	47	37	0.30
PENINSULA.																		
Pembroke (St. Ann's Hd.)	29.35	45	SW	2	0	29.04	-74	44	44	+1	ESE	2	0	0	0	47	41	0.35
Scilly ...	29.31	47	SW	4	0	29.04	-86	46	45	+2	W	5	0	0	0	47	44	0.38
Prawle Point ...	29.42	43	SW	4	0	29.04	-83	45	45	0	W	5	0	0	0	47	42	0.35
Jersey (St. Aubin's)	29.37	46	SW	4	0	29.04	-83	47	46	+1	SW	4	0	0	0	47	44	0.61
Hurst Castle ...	29.51	48	SW	5	0	29.08	-78	45	45	+2	S	4	0	0	0	48	46	0.37
FRANCE AND BELGIUM.																		
Dungeness ...	29.56	45	SW	5	0	29.03	-81	45	45	+1	SW	6	0	0	0	48	42	0.32
North Foreland	29.51	44	SW	2	0	29.02	-82	45	44	+2	S	4	0	0	0	48	40	0.33
London ...	29.52	43	SW	3	0	29.07	-82	47	46	+5	S	1	0	0	0	48	41	0.23
Oxford ...	29.41	41	SW	1	0	29.08	-78	43	42	+3	2	0	0	0	0	48	40	0.11
Cambridge ...	29.49	42	SW	1	0	29.08	-81	44	44	+5	2	0	0	0	0	48	38	0.10
Yarmouth ...	29.47	45	SW	4	0	29.03	-74	42	41	+1	ESE	6	0	0	0	48	38	0.25
GERMANY & HOLLAND.																		
Cuxhaven ...	29.63	40	SW	2	0	29.35	-22	38	37	-1	SE	2	0	0	0	41	36	—
Berlin ...	29.64	44	2	0	0	29.51	-16	39	39	-6	SE	2	0	0	0	46	39	0.12
Wiesbaden ...	29.77	3	SW	3	0	29.42	-36	36	34	0	2	0	0	0	0	48	34	—
Munich ...	29.77	3	SW	3	0	29.52	-25	32	32	-5	SE	4	0	0	0	50	38	0.04
The Helder ...	29.58	42	SW	5	0	29.13	-52	39	38	+2	SE	5	0	0	0	43	36	0.04
FRANCE AND BELGIUM.																		
Brussels (9 a.m.)	29.53	42	W	5	0	29.07	-68	42	40	-1	ESE	7	0	0	0	49	40	0.04
Cape Gris Nez	29.53	42	W	5	0	29.08	-80	43	44	+3	S	5	0	0	0	46	39	0.20
Paris ...	29.73	48	SW	3	0	29.08	-75	44	43	+1	ESE	5	0	0	0	53	43	0.35
Brest ...	29.73	47	S	5	0	29.08	-75	48	48	-2	SW	4	0	0	0	52	43	0.35
Lorient ...	29.50	47	S	6	0	29.05	-84	49	46	+2	SW	6	0	0	0	47	46	0.32
FRANCE AND BELGIUM.																		
Rochefort ...	29.70	48	SW	5	0	29.22	-71	53	51	+7	SW	7	0	0	0	47	45	1.10
Belfort ...	29.70	43	SW	2	0	29.46	-50	41	39	+1	S	6	0	0	0	48	36	0.16
Lyons ...	29.50	40	SW	1	0	29.76	-20	42	40	0	E	1	0	0	0	55	35	—
Nice ...	29.80	48	E	1	0	29.65	-33	44	44	-4	N	1	0	0	0	53	48	0.04
Perpignan ...	29.73	52	NE	2	0	29.40	-55	45	45	-4	SW	5	0	0	0	53	46	0.16
Biarritz ...	29.86	53	SW	5	0	29.40	-55	45	45	-4	SW	5	0	0	0	53	46	0.16
PENINSULA.																		
Corunna ...	29.86	53	SW	5	0	29.40	-55	45	45	-4	SW	5	0	0	0	53	46	0.16
Lisbon ...	29.86	53	SW	5	0	29.40	-55	45	45	-4	SW	5	0	0	0	53	46	0.16

For Explanation of Columns, see bottom of last page.

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

# WEATHER CHARTS

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

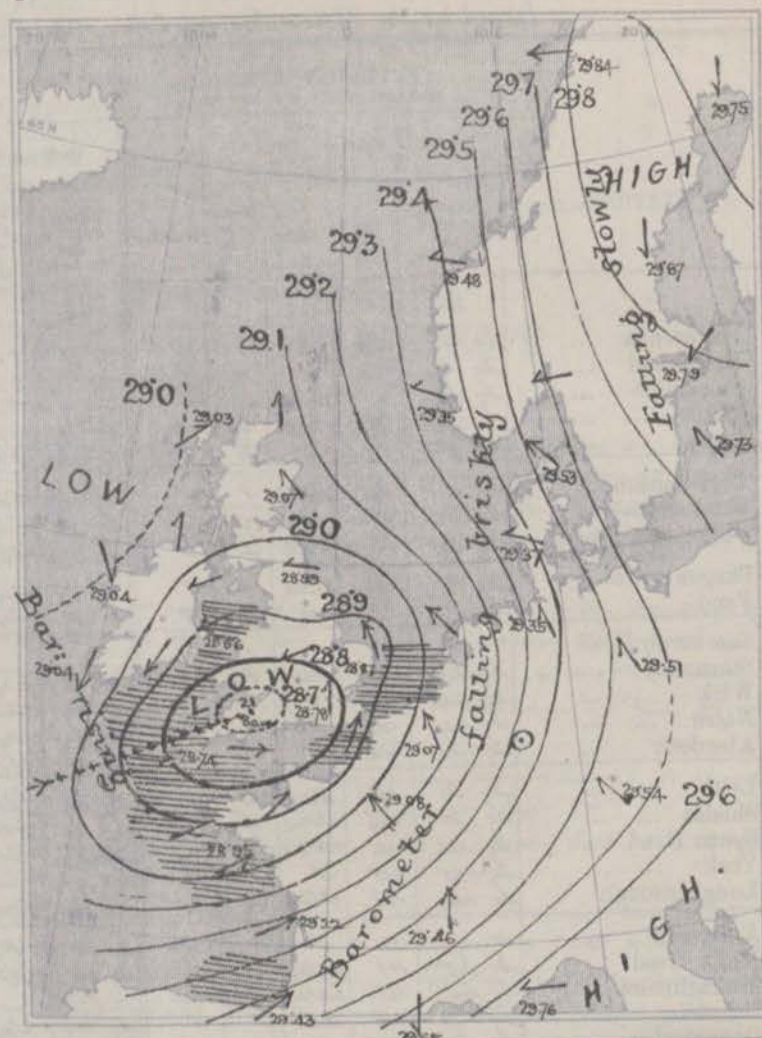
**SEA DISTURBANCE**—Where considerable, is shown thus—

— Rough. — High.

## MEAN HEIGHT OF THE BAROMETER

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

STATIONS.	MEAN READINGS
Sumburgh Head	29.775
Stornoway	29.773
Wick	29.874
Nairn	29.814
Aberdeen	29.818
Leith	29.870
Shields	29.908
Spurn Head	29.924
York	29.939
Loughborough	29.962
Androsan	29.973
Mullaghmore	29.981
Donaghadee	29.984
Holyhead	29.914
Liverpool	29.934
Parsonstown	29.906
Valencia	29.919
Roche's Point	29.916
Pembroke	29.937
Sally	29.939
Prawle Point	29.933
Jersey	30.007
Hurst Castle	29.988
Dover	29.983
LONDON	29.989
Oxford	29.985
Cambridge	29.979
Yarmouth	29.964



## 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.

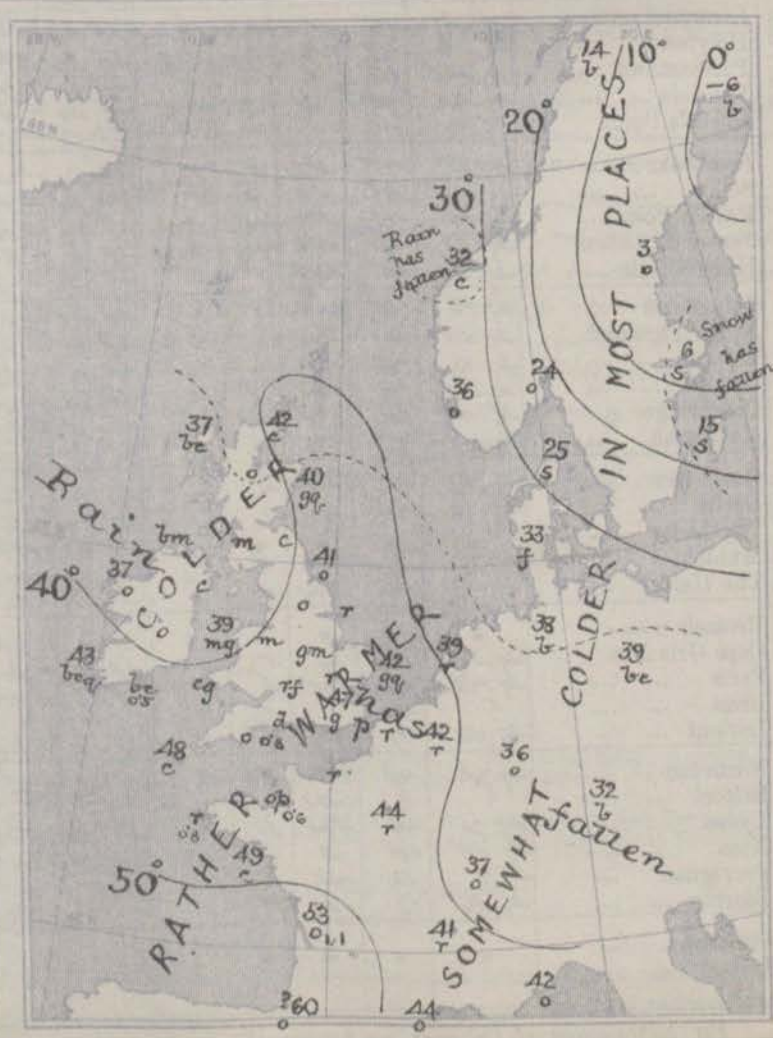
**RAINFALL**—A dotted line separates the districts in which rain has fallen from those where there has been none. Falls of 0.5 in. or more are quoted in figures.

### MEANS OF TEMPERATURE IN SHADE, AND RAINFALL

(For the month of February.)

STATIONS.	TEMPERATURE.				RAINFALL (inches).
	Daily Max.	Daily Min.	At 8 a.m.	At 4 p.m.	
Sumburgh Head	42.4	34.6	38.5	37.4	3.19
Stornoway	43.5	34.6	40.1	38.7	3.88
Wick	43.1	33.2	38.1	36.7	2.94
Nairn	45.4	33.4	41.1	38.4	1.48
Aberdeen	43.2	33.8	33.3	33.7	2.33
Leith	46.7	34.3	38.6	37.1	1.45
Shields	43.8	33.1	38.5	37.3	1.60
Spurn Head	42.3	35.0	38.4	37.6	1.36
York	41.6	33.9	37.6	36.1	1.70
Loughborough	45.4	31.2	37.3	36.4	1.78
Androsan	41.6	36.3	38.4	38.2	3.04
Mullaghmore	46.6	35.6	40.0	40.3	3.00
Donaghadee	45.5	36.9	40.2	39.3	2.42
Holyhead	45.6	38.7	41.5	40.1	2.09
Liverpool	41.0	36.2	38.9	37.0	1.69
Parsonstown	46.9	37.0	40.4	38.1	2.20
Valencia	39.7	36.1	41.6	42.0	1.96
Roche's Point	48.4	39.6	43.1	41.6	4.43
Pembroke	45.6	39.4	42.1	40.0	2.82
Sally	45.0	42.3	44.6	41.4	2.71
Prawle Point	40.8	38.1	41.3	40.3	2.02
Jersey	44.9	39.3	42.3	41.0	2.33
Hurst Castle	45.7	36.7	40.3	39.3	2.25
Dover	44.4	36.1	39.2	38.1	1.96
LONDON	45.5	35.1	38.6	37.4	1.73
Oxford	46.0	34.0	37.9	36.8	1.92
Cambridge	45.5	32.8	37.3	36.2	1.48
Yarmouth	49.6	34.3	38.2	37.3	1.82

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



# GENERAL SITUATION AT 8 A.M.

## PRESSURE

Highest, 29.7 ins. and more to 29.5 ins. over the southern part of France; 29.8 ins. and more to 29.5 ins. over Sweden and Lapland.  
Lowest, 28.8 ins. to 28.7 ins. over the southeastern and southern part of England and Wales.  
Gradients somewhat steep over the southern and southeastern districts, slight and variable in Scotland.  
Barometer still falling <sup>slightly</sup> on the southern and southwestern coasts of Ireland, where a decided recovery has set in since 3 a.m.

## TEMPERATURE

Highest, 60° at Biarritz, 53° at Rochefort; below 50° elsewhere, but 45° to 48° at our southern stations.  
Lowest, -6° F. at Hafavanda, +6° at Stockholm, 14° at Åbo, 25° at the Polar, 35° at Narvik and Andressow.  
It has continued to change fitfully over our islands generally.  
The maxima recorded yesterday were below 50° on nearly all our own coasts, but were 53° at Loughswilly, 54° at Biarritz.

## WIND

Very light and variable on our extreme northwestern coasts. Strong N<sup>th</sup> in the south of Ireland, W<sup>th</sup> over the Bay of Biscay and western part of the Channel; moderate S<sup>th</sup> over our eastern coasts, E<sup>th</sup> in the north and also on the Norwegian coast.  
It has been very strong and squally from between S and SW over the Channel and our southern coasts in the night.

## WEATHER

Very changeable. Fair at time of observation in the south of Ireland, dull elsewhere with rain in places.  
Rainfall has been heavy in the west of France (1.1 in. at Rochefort, 0.8 in. at Åbo), and considerable over the western part of the Channel (0.6 in. at Jersey and Hunt Castle), slight in the east and north, and not at all general over Scotland and Norway.

## SEA

Rough on our west, south and southeast coasts, moderate in the northeast, smooth in the northwest.

## PROBABLE CHANGES IN SYSTEM NOW PREVALENT

The depression appears to be moving steadily in an easterly direction. The wind seems likely to shift to the N<sup>th</sup> as its central area passes eastwards, but this change will probably not be permanent.

## FORECASTS

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

### DISTRICTS.

### FORECASTS.

0	SCOTLAND NORTH	SW <sup>th</sup> and Variable airs; fine to showery.
1	SCOTLAND EAST	{ E <sup>th</sup> to N <sup>th</sup> breezes; dull and showery to fair, colder.
2	ENGLAND N.E.	
3	ENGLAND EAST	{ S <sup>th</sup> to W <sup>th</sup> and to N <sup>th</sup> winds; dull, rain at times, then finer and colder, but not settled.
4	MIDLAND COUNTIES	
5	ENGLAND SOUTH	

### DISTRICTS.

### FORECASTS.

6	SCOTLAND WEST	Same as N <sup>th</sup> .
7	ENGLAND N.W.	{ N <sup>th</sup> to W <sup>th</sup> or SW <sup>th</sup> breezes; very changeable fair to showery.
8	ENGLAND S.W.	
9	IRELAND NORTH	{ Wind becoming SW <sup>th</sup> again; weather changeable, fair to showery.
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.				
Skudeanaes ...	29.62	36	34	S	1	o	5	Valencia ...	29.57	47	44	S	2	og	6
Sumburgh Head ...	29.28	45	45	SW	4	o	4	Scilly ...	29.50	48	45	SW	4	og	6
Sternoway ...	29.28	45	45	SW	4	o	4	Jersey ...	29.67	50	46	SW	4	o	4
Aberdeen ...	29.33	47	43	SW	2	bc	3	Hurst Castle ...	29.55	47	46	W	5	bc	5
Shields ...	29.40	48	44	SW	3	c	2	Dungeness ...	29.55	48	46	W	6	bc	5
Ardrossan ...	29.33	46	44	S	2	if	2	North Foreland ...	29.54	47	45	SW	5	c	5
Malin Head ...	29.41	43	41	W	3	o	2	London ...	29.51	50	48	SW	3	c	3
Mullaghmore ...	29.33	47	43	SW	3	o	5	Yarmouth ...	29.52	42	41	S	4	c	3
Belmullet ...	29.34	47	42	S	3	bc	3	Rocheport ...	29.91	47	46	SW	4	o	3
Holyhead ...	29.42	44	40	SW	3	og	3								

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

Weather fine at many of the English and Irish stations, but showery on some parts of our south and southwest coasts. Cloudy or overcast over Scotland and the greater part of the Continent, with fog over Holland, north Germany, and Austria, rain over Western Algeria, the central parts of Germany and at Lyons and Florence, and snow over Russia and the south of Sweden. Rain falling later over the whole of Ireland, England, France and the Netherlands, heavily at some of our southern stations.

Temperature fallen in most of the western and northern countries, but risen in Scotland, as well as over southern and south-eastern Europe. Morning readings highest 55° at Nampers, 54° at Cram and Alpiers, and 53° at Barcelona, above 50° on the western coasts of the Spanish Peninsula. Lowest 0° zero at Uleaborg and Kuopio, 1° at Haparanda, and 3° at Archangel and Namsand; considerably below the freezing point in most parts of Sweden and Russia and slightly below it in Denmark. Daily maxima over our Islands ranging in most cases between 45° and 50°, thermometer exceeding the latter point in the west and south of France, and reaching 59° at Perpignan.

Wind light or moderate from the S<sup>nd</sup> over all the more northern parts of the United Kingdom, strong from between the S<sup>nd</sup> and E<sup>nd</sup> in the west of Norway. Fresh or strong from the W<sup>nd</sup> or SW<sup>nd</sup> over the south of our Islands and the west of France, and light or moderate from the same quarters in Germany. N<sup>th</sup> over Sweden, Finland and the Baltic Provinces, but SW<sup>th</sup> over the central and southern parts of Russia; rather variable over Spain and Italy, but chiefly W<sup>th</sup>. Subsequently backing to the SE<sup>nd</sup> or E<sup>nd</sup> in the extreme west and southwest of our Islands.

Barometer highest 30.2 in. and upwards, in a large anticyclone extending from the southward over Morocco and the south of Spain; 30.0 in. and less, in a small system lying over the Gulf of Bothnia. Lowest 29.3 in. and less, in a depression off the north of Scotland (secondary disturbance passing eastwards across Ireland and England); 29.7 in. and less, in a shallow area over Russia. Well-marked depression advancing later to our southwest coasts, rapid fall of barometer setting in at night over the southern parts of the Kingdom generally.

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

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

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

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

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# DAILY WEATHER REPORT

for 8 a.m. on *Wednesday, 22<sup>nd</sup> February, 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).	Weather.	SHADE TEMP.		Amount of Rainfall.		
	Reading at 32° F. and Sea Level.	Dry Bulb.	Direc.	Force (0 to 12).	Weather.	Reading at 32° F. and Sea Level.	Change since Yester- day Morn.	Dry Bulb.	Wet Bulb.	Change in dry since Yesterday.	Direc.	Force (0 to 12).	Weather.			Max.	Min.			
SCANDINAVIA.																				
Haparanda ...	29.63	-3	Z	0	b	29.38	-37	0	0	+ 6	Sw	2	0	#	b	10	-9			
Hernösand ...	29.83	-8	Z	0	b	29.65	-22	-17	-18	- 17	Z	0	b	#	b	14	-18			
Stockholm ...	29.74	5	NE	2	0	29.68	-11	6	6	0	H	2	S	#	0	14	3	0.04		
Wisby ...	29.63	15	ESE	4	S	29.60	-13	10	9	- 5	E	4	S	#	S	28	10	0.04		
Bodö ...	29.75	13	E	2	b	29.66	-38	29	27	+ 15	Sw	7	S	7	b	?	10			
Christiansund...	29.52	27	E	3	b	29.62	+14	23	21	- 9	E	2	b	2	b	32	23			
Skudesnaes ...	29.38	35	ESE	4	0	29.52	+17	28	25	- 8	E	4	0	2	0	37	27			
Christiania Fjord (Fjord)	29.63	16	NNE	5	0	29.69	+11	5	4	- 19	NNE	4	b	1	0	25	5			
Skagen (The Scaw)	29.48	19	E	7	0	29.53	-00	28	27	+ 3	E	6	C	4	0	28	10	0.24		
Fanö ...	29.16	31	E	6	0	29.19	-18	27	26	- 6	E	6	0	#	0	37	27			
BRITISH ISLANDS.																				
Sumburgh Head																				
Stornoway ...	29.12	42	Z	0	0	29.45	+42	40	38	+ 3	E	4	bc	4	b.0	43	35			
Wick ...	29.12	38	E	5	0	29.39	+32	38	37	- 4	SE	2	0	5	ohp	43	36	0.07		
Nairn ...	29.08	37	Z	0	T	29.41	+37	36	35	+ 1	NE	2	0	2	1	41	33	0.23		
Aberdeen ...	29.11	40	E	4	09	29.43	+36	36	34	- 4	E	6	ogq	6	c.ogq	42	36	0.08		
Leith ...	29.04	39	NE	3	0	29.33	+31	39	37	+ 2	E	3	0	#	0	41	36	0.15		
Shields ...	28.93	40	NNE	4	T	29.23	+24	38	36	- 3	NE	6	0	6	1	42	37	0.34		
Spurn Head ...	28.76	41	NE	3	T	29.00	+14	36	35	- 4	NE	7	T	7	f.1	41	35	0.25		
York ...	28.84	40	N	1	m	29.07	+16	36	36	- 4	NE	3	T	#	m	42	35	0.23		
Loughborough	28.78	41	NW	3	0	29.04	+21	36	35	- 4	N	3	T	#	0.7	42	36	0.27		
Ardrossan ...	29.02	40	NE	2	op	29.31	+31	38	37	0	NE	3	om	1	m.op	43	36	0.04		
Malin Head ...	29.07	40	NNE	3	bc	29.28	+28	40	39	+ 3	E	6	ogt	3	bc	43	37	0.08		
Mullaghmore ...																				
Belmullet ...	29.10	42	NW	4	op	29.28	+24	35	34	- 2	NW	2	b	#	op	43	34	0.15		
Donaghadee ...	29.04	42	NE	3	bc	29.26	+28	41	40	0	E	6	0	4	bc	44	39	0.21		
Liverpool (Bidston)	28.93	41	NW	4	T	29.16	+29	38	37	- 1	NNE	3	T	3	T	42	38	0.16		
Holyhead ...	28.98	42	N	5	0	29.17	+31	40	39	+ 1	ENE	4	rg	4	ogm	43	39	0.12		
Parsonstown ...	29.09	40	Z	0	0	29.27	+30	30	29	- 6	Z	0	f	#	c.0	45	29	0.04		
Valencia ...	29.21	45	NW	4	cq	29.27	+23	37	37	- 6	NE	1	C	4	bchp.19	47	36	0.29		
Roche's Point	29.13	42	NW	4	C	29.25	+33	38	36	- 4	NW	2	b	4	c	46	35	0.02		
Pembroke (St. Ann's Hd.)	29.02	42	NW	5	C	29.18	+44	42	38	- 2	NW	5	bc	4	c.c	46	39	0.06		
Scilly ...	29.10	46	NW	6	bc	29.23	+49	44	41	- 4	NW	5	cip	5	c	48	41	0.10		
Prawle Point ...	28.95	41	NW	6	bc	29.18	+44	39	38	- 6	NW	5	b	4	bcp	49	37	0.01		
Jersey (St. Aubin's)	28.89	48	W	4	ogmp	29.19	+32	45	41	- 2	NW	5	bchp	4	ogmp	49	42	0.06		
Hurst Castle ...	28.81	44	NW	5	ogm	29.07	+29	41	40	- 4	NW	6	c	3	pam	47	40	0.02		
Dungeness ...	28.68	45	W	5	T	28.91	+08	39	38	- 6	NW	4	cq	4	T	45	38	0.45		
North Foreland	28.65	45	WSW	3	T	28.83	+01	38	37	- 7	NW	6	Tq	6	T	45	35	1.35		
London ...	28.73	44	NW	4	0	28.96	+17	37	36	- 10	NW	4	T	#	0.79	47	37	0.49		
Oxford ...	28.83	41	NW	2	0	29.04	+26	37	36	- 6	NW	1	01	#	01	45	37	0.21		
Cambridge ...	28.70	44	NW	1	T	28.93	+15	37	37	- 7	NW	3	T	#	T	48	35	0.65		
Yarmouth ...	28.70	40	E	4	T	28.81	-06	41	40	- 1	NE	6	ogq	5	019	42	35	0.53		
GERMANY & HOLLAND.																				
Cuxhaven ...	29.09	40	E	4	T	29.02	-33	34	33	- 4	E	7	S	#	T	43	32	0.20		
Berlin ...	29.14	44	Z	0	0	29.02	-49	39	38	0	E	3	0	#	0	50	39	0.04		
Wiesbaden ...						28.98	-44	41	40	+ 5	SW	2	T	#	#	41	34	0.24		
Munich ...	29.11	39	Z	0	bc	29.10	-44	37	36	+ 5	SSW	4	0	#	bc	43	32	0.04		
The Helder ...	28.76	37	ESE	5	T	28.86	-27	40	40	+ 1	E	3	T	3	T	41	36	0.51		
FRANCE AND BELGIUM.																				
Brussels (2 a.m.)						28.90	-17	37	36	- 5	WSW	5	T	#	C	45	35	0.35		
Cape Gris Nez	28.72	45	W	4	C	28.85	-10	39	39	- 6	NW	6	T	6	C	46	37	0.63		
Paris ...	28.85	47	SW	3	C	29.13	+05	40	38	- 4	SW	4	bc	#	C	54	40	0.36		
Brest ...		47	NW	6	0	?	?	46	44	+ 1	NW	5	C	6	0	52	41	0.16		
Lorient ...	29.06	48	NW	8	0	29.30	+35	45	42	- 4	NW	6	bc	6	0	52	43			
Rochefort ...	29.10	49	SSW	6	0	29.42	+20	45	44	- 8	NW	5	T	#	0	54	41	0.32		
Belfort ...		46	WSW	4	0	?	?	42	38	+ 5	W	3	0	#	0	47	37			
Lyons ...	29.19	44	S	4	0	29.36	-10	41	36	0	ESE	1	0	#	0	49	39	0.24		
Nice ...	29.33	40	N	6	T	29.17	-59	41	38	- 1	E	1	b	3	T	50	39	0.79		
Perpignan ...	29.38	34	SW	3	0	29.49	-16	49	41	+ 5	W	4	0	#	0	55	44			
Biarritz ...																				
PENINSULA.																				
Corunna ...																				
Lisbon ...	30.03	51	WSW	4	C	30.05	-02	52	48	- 5	W	3	b	#	C	59	50	0.08		

For Explanation of Columns, see bottom of last page.

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

# WEATHER CHARTS

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

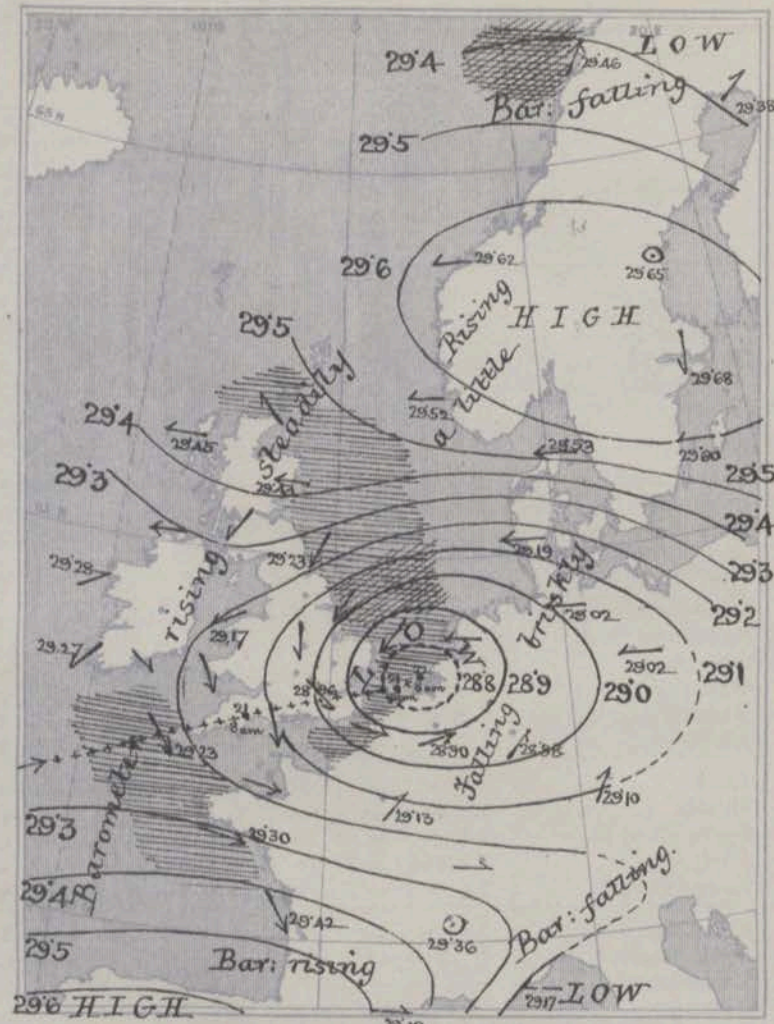
— = Rough. — = High.

### MEAN HEIGHT OF THE BAROMETER

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

During the 20 Years, 1871—1890.

STATIONS.	MEAN READINGS.
Sumburgh Head	29.773
Stornoway	29.773
Wick	29.804
Nairn	29.811
Aberdeen	29.818
Leith	29.879
Shields	29.906
Spurn Head	29.911
York	29.930
Loughborough	29.963
Androsan	29.873
Mullaghmore	29.851
Donaghadee	29.881
Holyhead	29.914
Liverpool	29.934
Parsonstown	29.900
Valencia	29.919
Roche's Point	29.916
Pembroke	29.937
Scilly	29.939
Prawle Point	29.993
Jersey	30.007
Hurst Castle	29.986
Dover	29.983
LONDON	29.930
Oxford	29.985
Cambridge	29.979
Yarmouth	29.964



## 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.

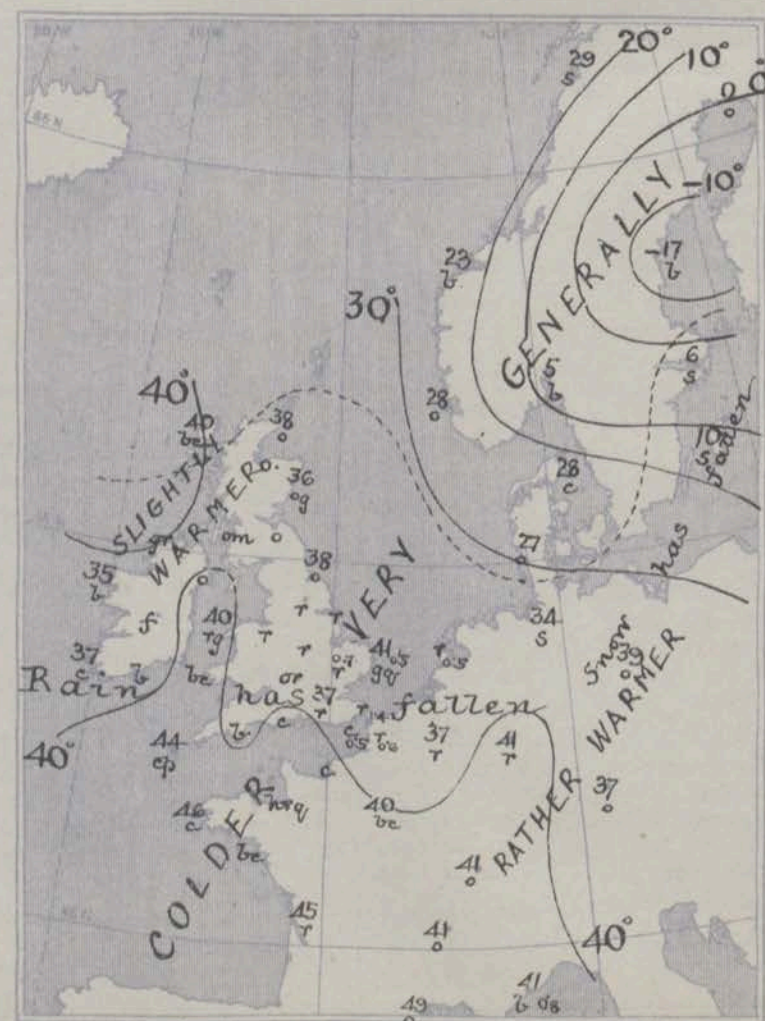
**RAINFALL**—A dotted line separates the districts in which rain has fallen from those where there has been none. Falls of 0.5 in. or more are quoted in Figures.

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

(For the month of February.)

STATIONS.	TEMPERATURE.				RAINFALL.
	Daily Max.	Daily Min.	At 8 a.m.	At 4 p.m.	
Sumburgh Head	42.4	34.5	38.5	37.4	3.19
Stornoway	43.5	34.6	39.1	38.1	2.86
Wick	42.1	33.2	38.1	36.7	2.01
Nairn	43.4	33.4	37.1	35.4	1.48
Aberdeen	43.2	33.8	37.3	35.7	2.55
Leith	45.7	34.3	38.6	37.1	1.45
Shields	43.8	35.1	38.6	37.3	1.50
Spurn Head	42.3	35.9	38.4	37.6	1.36
York	44.0	33.0	37.5	36.4	1.70
Loughborough	45.3	33.9	37.5	36.4	1.78
Androsan	44.0	30.3	39.4	38.2	3.01
Mullaghmore	40.6	38.0	42.0	40.3	3.09
Donaghadee	45.5	36.9	40.3	39.3	2.12
Holyhead	46.5	38.7	41.5	40.1	2.60
Liverpool	44.5	36.2	38.9	37.3	1.69
Parsonstown	46.0	35.6	39.4	38.1	2.20
Valencia	42.7	40.7	44.6	42.9	4.05
Roche's Point	45.4	39.6	42.1	41.6	4.43
Pembroke	45.6	39.4	42.1	40.9	2.82
Scilly	48.0	42.8	46.0	44.4	2.71
Prawle Point	46.8	38.1	41.5	40.5	2.02
Jersey	46.9	39.3	42.3	41.0	2.55
Hurst Castle	45.7	36.7	40.3	39.3	2.25
Dover	44.4	36.1	39.2	38.1	1.00
LONDON	45.5	35.1	38.6	37.4	1.73
Oxford	45.0	34.0	37.9	36.8	1.92
Cambridge	45.5	32.8	37.3	36.2	1.46
Yarmouth	42.6	34.3	38.2	37.3	1.62

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 part of the Spanish Peninsula; 29.6 in. and upwards over the southern part of Scandinavia.  
 Lowest, 28.8 in. and less, in a well marked depression lying between the English and Dutch coasts.  
 Gradients rather steep over Denmark, the Baltic, and the North Sea, but moderate or slight elsewhere.  
 Barometer <sup>rising</sup> over our Islands, France, and Denmark, but falling in Germany, Sweden, and the northwest of Norway.

## TEMPERATURE

Highest, 52° at Lisbon, 49° at Lorient, 46° at Brest, 45° at Jersey, Lorient, and Rochefort, 44° at Seilly, and 42° at Pembroke.  
 Lowest, 17° F. at Hernösand, 0° zero at Haparanda, 5° at Lander, 6° at Stockholm, 10° at Viborg, and 23° at Christiansund.  
 The maxima registered yesterday were below 45° in all but ~~the~~ the southern parts of the United Kingdom.

## WIND

Strong from the E<sup>nd</sup> over Denmark, North Germany, and the northern parts of our Islands, and from the NE<sup>nd</sup> on our east coast.  
 Light from the N<sup>nd</sup> in the south of Ireland, fresh or strong from the NW<sup>nd</sup> over the Channel and Bay of Biscay.  
 Light or moderate from SW. over Belgium and the western and southern parts of Germany.

## WEATHER

Rainy over the eastern, central and southeastern parts of England, as well as in the Netherlands and some parts of France and Germany.  
 Fine at several of our western and southern stations, but dull in Scotland and also over the greater part of Scandinavia and Denmark, with snow at Rode, Stockholm, Viborg and Abo.  
 Since yesterday morning rain has fallen in most parts of Western Europe, the largest amounts being 1.4 in. at the North Foreland, 0.7 in. at Cambridge, and 0.6 in. at Cape Gris-Nez.

## SEA

High at Spurn Hd. and rough on our east and southeast coasts generally, as well as off the north and northwest of France.

## PROBABLE CHANGES IN SYSTEM NOW PREVALENT

The depression off our southeast coast appears to be almost stationary, and as the barometer is rising steadily over the northern parts of our Islands the gradients for NE<sup>ly</sup> winds are likely to become steeper. A gradual improvement in the weather is, however, probable over England.

## FORECASTS

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

### DISTRICTS.

### FORECASTS.

0	SCOTLAND NORTH	E <sup>ly</sup> winds, moderate or fresh, cloudy, some showers.
1	SCOTLAND EAST	
2	ENGLAND N.E.	NE <sup>ly</sup> winds, strong to a gale, unsettled, rain at times.
3	ENGLAND EAST	
4	MIDLAND COUNTIES	NW <sup>ly</sup> winds, light or moderate; rainy at first, but improving later.
5	ENGLAND SOUTH	NW <sup>ly</sup> winds, strong, a gale at some coast stations; squally and rainy to fair.

### DISTRICTS.

### FORECASTS.

6	SCOTLAND WEST	NE <sup>ly</sup> and E <sup>ly</sup> winds, light or moderate, cloudy, some rain.
7	ENGLAND N.W.	
8	ENGLAND S.W.	NW <sup>ly</sup> winds, backing later, fair to unsettled and some rain.
9	IRELAND NORTH	E <sup>ly</sup> winds, force doubtful, unsettled, some rain.
10	IRELAND SOUTH	
WARNINGS		At 10.20 am to districts 2, 3, and part of 5 "HOIST NORTH CONE"

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

# YESTERDAY'S 2 P.M. REPORTS.

	BAR.	THER.		WIND. Direc.	F.	WEA.	SEA.		BAR.	THER.		WIND. Direc.	F.	WEA.	SEA.
		Dry.	Wet.							Dry.	Wet.				
Skudesnaes ...	29.35	37	34	E	4	0	0	Valencia ...	29.18	44	41	W	6	bcgyp	5
Sumburgh Head								Scilly ...	28.95	46	44	W	8	c	5
Stornoway ...	29.07	42	40	S	2	b	3	Jersey ...	28.79	49	47	W	3	ogmp	3
Aberdeen ...	29.06	41	39	ESE	3	c	4	Hurst Castle ...	28.71	46	45	W	4	cpd	4
Shields ...	28.93	41	40	ESE	3	r	3	Dungeness ...	28.68	45	45	W	4	r	4
Ardrossan ...	29.00	42	41	NE	2	cm	1	North Foreland ...	28.65	45	45	SSE	2	r	4
Malin Head ...	29.03	42	39	W	2	bc	2	London (W. & S. S. S. S.)	28.68	48	46	W	3	ogrm	5
Mullaghmore ...								Yarmouth ...	28.71	41	40	SE	5	og	5
Belmullet ...	29.08	42	40	W	3	op	2	Rochefort ...	29.13	50	49	W	8	o	5
Holyhead ...	28.92	42	41	N	5	ogm	5								

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

Weather dull over Great Britain and the Continent generally, with rain in France, the Netherlands, and the east parts of England, and snow in Denmark, the south of Sweden, and some parts of Russia and North Germany. Fine and bright at several of the Irish stations as well as in some of the more northern parts of Sweden and Russia. Rain falling during day over nearly the whole of Western Europe; amounts large in many parts of England and France.

Temperature risen over England, France, and the greater part of southern and eastern Europe, but fallen elsewhere. Morning readings highest 60° at Biarritz, 59° at Algiers, 57° at Lisbon, above 50° at the Mediterranean stations generally, but below it in the Riviera. Lowest -17° F. at St. Petersburg, -13° at Hango, and -12° at Uleaborg; considerably below the freezing point in Sweden and slightly below it over the central and southern parts of Russia; below 40° in Scotland and Central Ireland. Daily maxima below 45° in all the more northern parts of the United Kingdom, but thermometer exceeding 50° in the west and south of France.

Wind light and variable on our extreme northwest coasts; strong from the N<sup>W</sup> in the south of Ireland, from the W<sup>W</sup> over the Bay of Biscay and the western parts of the Channel, from the S<sup>W</sup> in the southeast of England and the central parts of France, and from the SE<sup>W</sup> over Norway, Denmark, Germany, the Netherlands, and the North Sea. Light from the N<sup>W</sup> or NW<sup>W</sup> over Sweden and Finland, and from the SW<sup>W</sup> over the central and southern parts of Russia. S<sup>W</sup> in Italy and Algeria, and SW<sup>W</sup> in Spain. Subsequently shifting to the NW<sup>W</sup> over the south of England and the west of France, and blowing with the force of a gale (temporarily) at the mouth of the Channel.

Barometer highest 30.2 ins. and upwards over Morocco, 29.8 ins. and upwards over the northern parts of Scandinavia. Lowest 28.8 ins. and less, in a well marked depression lying over the south of England. Gradients rather steep over the Bay of Biscay, France, and the Netherlands. Depression subsequently moving steadily eastwards, barometer falling below 28.7 ins. in the southeast of England. Rise taking place over the more western and northern parts of the United Kingdom.

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

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

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

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

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# DAILY WEATHER REPORT

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

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

STATIONS.	YESTERDAY EVENING. (See note at bottom of last page.)						THIS MORNING. (See note at bottom of last page.)										PAST 24 HOURS.			
	BAROM.		TEMP.		WIND.		BAROMETER.		SHADE TEMP.		WIND.						SHADE TEMP.			
	Reading at 32° F. and Sea Level.	Dry Bulb.	Dirac.	Force (0 to 12).	Weather.		Reading at 32° F. and Sea Level.	Change since Yesterday Morn.	Dry Bulb.	Wet Bulb.	Change in dry since Yesterday.	Dirac.	Force (0 to 12).	Weather.	Sea (0 to 9).		Weather.	Max.	Min.	Amount of Rainfall.
	Inch.	°					Inch.		°	°								°	Inch.	
SCANDINAVIA.	Haparanda ...	29.40	1	NEW	2	b	29.39	+0.01	-12	-12	-12	2	0	b	#	b	14	-13	-	-
	Hernösand ...	29.39	6	Z	0	o	29.62	-0.03	2	2	+19	2	0	c	#	o	10	-20	-	-
	Stockholm ...	29.50	2	W	2	b	29.47	-0.21	0	0	-6	W	2	o	#	b	14	0	-	-
	Wisby ...	29.50	8	N	4	b	29.45	-0.15	6	5	-4	NW	4	b	#	b	19	6	-	-
	Bodö ...	29.58	20	N	4	bc	29.59	-0.07	25	22	-4	NW	6	S	3	bc	29	16	-	-
	Christiansund ...	29.58	30	ESE	2	o	29.60	-0.02	27	26	+4	ESE	1	b	2	o	30	23	-	-
	Skudesnaes ...	29.58	30	NNE	3	b	29.54	+0.02	28	26	0	ENE	2	b	2	b	35	23	-	-
	Christiania Fjord (Pardner)	29.56	11	Z	0	b	29.57	-12	5	4	0	Z	0	b	1	b	11	3	-	-
	Skagen (The Scaw)	29.53	11	NE	1	b	29.54	+0.01	20	18	-8	NE	1	b	0	b	28	10	-	-
	Fanö ...	29.43	23	E	8	o	29.52	+0.23	18	17	-9	ENE	3	b	#	o	28	18	-	-
BRITISH ISLANDS.	Sumburgh Head																			
	Stornoway ...	29.55	40	E	4	b	29.56	+0.11	34	33	-6	E	2	bc	3	o, b	43	31	-	-
	Wick ...	29.54	36	E	3	o	29.55	+0.16	30	29	-8	N	2	c	3	o	41	28	0.05	-
	Nairn ...	29.51	34	Z	0	o	29.58	+0.17	31	30	-5	Z	0	c	1	ots	38	26	0.19	-
	Aberdeen ...	29.55	34	ENE	5	ogq	29.61	+0.18	33	32	-3	NW	2	og	5	q, spg	36	33	0.01	-
	Leith ...	29.50	35	ENE	4	o	29.59	+0.26	34	31	-5	SE	2	o	#	o	39	31	0.01	-
	Shields ...	29.41	35	NE	5	op, sh	29.56	+0.33	35	33	-3	ENE	3	o	6	rsh	38	32	0.04	-
	Spurn Head ...	29.24	35	NE	6	r	29.49	+0.49	33	30	-3	ENE	4	c	5	prsg	36	31	0.05	-
	York ...	29.31	35	NNE	1	m	29.55	+0.48	34	32	-2	ENE	1	o	#	rs, m	38	32	0.10	-
	Loughborough	29.27	35	NNE	2	r	29.51	+0.47	32	31	-4	NNE	2	om	#	rs	37	32	0.15	-
GERMANY & HOLLAND.	Ardrossan ...	29.49	37	NE	2	o	29.57	+0.26	34	33	-4	NE	1	om	0	cm, o	40	32	-	-
	Malin Head ...	29.47	39	ESE	6	o	29.56	+0.28	33	31	-7	SE	3	bc	2	o	41	32	-	-
	Mullaghmore ...																			
	Belmullet ...	29.45	39	ENE	3	o	29.56	+0.28	32	31	-3	ENE	2	b	#	c, o	43	31	-	-
	Donaghadee ...	29.47	40	ENE	7	c	29.57	+0.31	37	36	-4	ENE	6	o	4	c	42	36	0.01	-
	Liverpool (Bidston)	29.36	37	NE	3	o	29.54	+0.38	34	32	-4	ENE	2	o	2	o	39	34	0.05	-
	Holyhead ...	29.38	39	ENE	4	og	29.52	+0.35	35	34	-5	ENE	3	cg	2	og	41	34	0.01	-
	Parsonstown ...	29.41	38	Z	0	r	29.52	+0.25	34	32	+4	Z	0	o	#	o, r	41	28	-	-
	Valencia ...	29.37	44	ENE	3	b	29.47	+0.20	39	37	+2	E	3	o	4	cp, b	49	35	0.02	-
	Roche's Point	29.36	43	NE	2	c	29.48	+0.23	38	37	0	ENE	2	o	3	b	46	36	-	-
FRANCE AND BELGIUM.	Pembroke (St. Ann's Hd.)	29.32	39	NE	3	r	29.48	+0.30	36	35	-6	ENE	3	cg	3	o	42	36	0.03	-
	Scilly ...	29.31	45	NW	4	cp	29.39	+0.16	42	39	-2	ENE	4	og	5	op	47	39	0.10	-
	Prawle Point ...	29.26	41	NW	3	c	29.43	+0.25	37	35	-2	ENE	4	og	3	c	48	33	-	-
	Jersey (St. Aubin's)	29.26	46	W	4	cg	29.40	+0.21	40	38	-5	N	3	bcm	3	bc, p	49	38	0.04	-
	Hurst Castle ...	29.22	38	NW	5	p	29.44	+0.37	36	35	-5	NNE	4	c, dm	3	cp	42	35	0.04	-
	Dungeness ...	29.05	37	NW	4	r	29.36	+0.45	36	35	-3	NNE	4	c	3	r, p	40	34	0.22	-
	North Foreland	29.04	40	N	6	r	29.38	+0.55	37	36	-1	NE	5	sq	6	og, r	41	34	0.26	-
	London ...	29.16	37	NW	3	o, d	29.44	+0.48	34	32	-3	NE	2	og	#	og, rs	38	33	0.24	-
	Oxford ...	29.28	35	N	1	o	29.48	+0.44	33	32	-4	NNE	2	og	#	og, rs	38	33	0.17	-
	Cambridge ...	29.19	35	N	3	r	29.48	+0.55	33	33	-4	NNE	1	o	#	rs	39	32	0.26	-
PENINSULA.	Yarmouth ...	29.10	37	NE	7	og	29.41	+0.60	33	32	-8	NE	6	og, h	5	og, rs	41	31	0.06	-
	Cuxhaven ...	29.16	29	ENE	7	o	29.42	+0.40	26	24	-8	ENE	5	c	#	o	34	24	-	-
	Berlin ...	29.12	30	E	3	S	29.32	+0.30	24	23	-15	NE	4	o	#	S	43	23	0.35	-
	Wiesbaden ...						29.23	+0.25	37	36	-4	Sw	2	o	#	#	43	37	0.12	-
	Munich ...	29.26	36	W	5	bc	29.34	+0.24	36	33	-2	Sw	5	c	#	bc	43	34	0.04	-
	The Helder ...	29.15	34	ENE	8	S	29.41	+0.55	32	30	-8	NE	6	c	4	S	41	30	0.24	-
	Brussels (9 a.m.)						29.30	+0.40	31	31	-6	NNE	1	r	#	r	39	30	0.43	-
	Cape Gris Nez	28.99	39	NW	6	r	29.28	+0.43	36	36	-3	NE	5	o	5	r	45	30	0.47	-
	Paris ...	29.20	44	Sw	2	o	29.34	+0.21	38	37	-2	NW	3	o	#	o	51	37	0.20	-
	Brest ...		45	NW	4	o			46	43	0	E	2	m	5	c	52	37	1.58	-
PENINSULA.	Lorient ...	29.36	46	NW	5	c	29.39	+0.09	42	41	-3	SE	3	o	5	c	48	42	0.04	-
	Rocheport ...	29.46	46	NW	5	c	29.48	+0.06	46	45	+1	W	4	c	#	c	50	43	0.12	-
	Belfort ...		39	Sw	6	o			32	32	-10	NW	6	o	#	o	47	32	-	-
	Lyons ...	29.42	44	W	1	o	29.52	+0.16	35	34	-6	S	1	bc	#	o	50	35	0.08	-
	Nice ...	29.21	48	NW	6	b	29.36	+0.19	43	34	+2	NW	4	bc	4	b	55	41	-	-
	Perpignan ...	29.58	48	NW	5	b	29.60	+0.11	44	39	-5	W	3	b	#	b	56	41	-	-
	Biarriz ...																			
	Corunna ...																			
	Lisbon ...																			

For Explanation of Columns, see bottom of last page

Erratum. - The amount of Rainfall for London in yesterday's Report should read "0.39" not "0.49".

Received too late for insertion in Charts on next page.

# WEATHER CHARTS

for 8 a.m. on Thursday, 23<sup>rd</sup> February, 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.

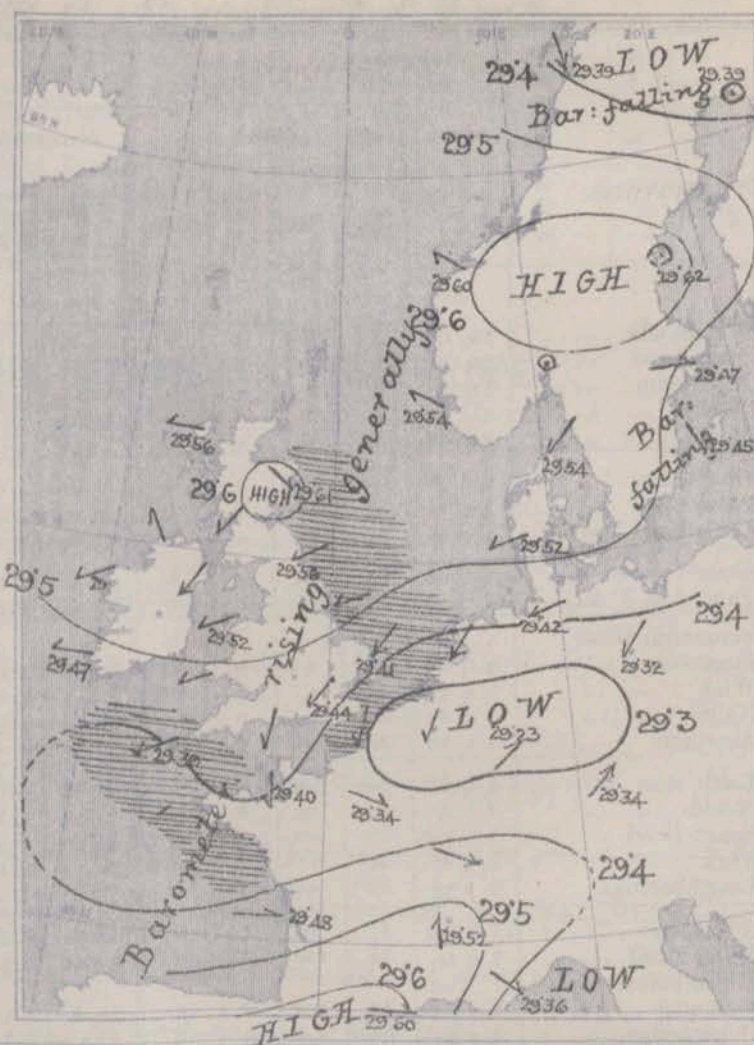
**SEA DISTURBANCE**—Where considerable, is shown thus:

☼ = Rough. ☼ = High.

### MEAN HEIGHT OF THE BAROMETER

at 8.0 a.m. for the month of February.  
During the 25 Years: 1871—1890.

STATIONS.	MEAN READINGS.
Sumburgh Head	29.775
Stornoway	29.773
Wick	29.804
Nairn	29.811
Aberdeen	29.848
Leith	29.870
Shields	29.900
Spurn Head	29.934
York	29.930
Loughborough	29.903
Ardrrossan	29.873
Mullaghmore	29.854
Dunachader	29.884
Holyhead	29.914
Liverpool	29.934
Parsonstown	29.900
Valencia	29.919
Roche's Point	29.916
Pembroke	29.937
Sally	29.959
Prawle Point	29.993
Jersey	30.007
Hurst Castle	29.980
Dover	29.983
LONDON	29.980
Oxford	29.985
Cambridge	29.979
Vermouth	29.962



# GENERAL SITUATION AT 8 A.M.

## PRESSURE

Highest, 29.6 mi: and upwards, over the south of France, and also over the central part of Scandinavia.  
 Lowest, 29.3 mi: and less, in a shallow depression lying over Germany and the Netherlands.  
 Gradients slight and irregular. Barometer rising generally, but falling a little in Sweden and the north of Norway.

## TEMPERATURE

Highest, 46° at Rochefort; and West, 44° at Copenhagen, 43° at Nice, 42° at Scilly and Orient, and 40° at Jersey.  
 Lowest, -12° Fahr: at Haparanda, 0° at Stockholm, 2° at Helsingfors, 5° at Lander, 6° at Vicksy, 18° at Tarr, and 20° at Stagen.  
 Frost occurred last night in many parts of the United Kingdom.

## WIND

E<sup>ly</sup> or NE<sup>ly</sup> over Ireland, England, Denmark, the Netherlands, and the northern part of France and Germany; light or moderate in force generally, but fresh or strong on the southeast coasts of England.  
 Light and variable in Scotland and also in Scandinavia, moderate from the W<sup>nd</sup> or NW<sup>nd</sup> over the southern part of France.

## WEATHER

Fine and bright in the extreme northwest of our Islands, as well as in Norway, Denmark, and the south of France.  
 Cloudy or overcast elsewhere, with snow or hail showers over the southeastern part of England, and with rain at Brussels.  
 Rain, hail or sleet fell yesterday in most parts of the United Kingdom, France, and Germany.

## SEA

Rough or rather so on our east and southeast coasts, as well as at the mouth of the Channel, and off the north and northwest of France.

## PROBABLE CHANGES IN SYSTEM NOW PREVALENT

The depression over the Netherlands is dispersing; and the winds on our east and southeast coasts are likely to subside gradually, with improving weather over England.

# FORECASTS

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

DISTRICTS.		FORECASTS.		DISTRICTS.		FORECASTS.	
0	SCOTLAND NORTH	{	Light Variable breezes; fair generally.	6	SCOTLAND WEST	{	Same as N <sup>o</sup> 5
1	SCOTLAND EAST			7	ENGLAND N.W.		
2	ENGLAND N.E.		NE <sup>ly</sup> winds, light or moderate; fair generally	8	ENGLAND S.W.	{	E <sup>ly</sup> and NE <sup>ly</sup> winds, light or moderate; fair generally.
3	ENGLAND EAST		Same as N <sup>o</sup> 5	9	IRELAND NORTH		
4	MIDLAND COUNTIES		Same as N <sup>o</sup> 2	10	IRELAND SOUTH		
5	ENGLAND SOUTH		NE <sup>ly</sup> winds, light inland, fresh or strong on coasts; fair generally, but some snow showers.	WARNINGS			

At 10:30 am to district 2. "Lower Cone" Signals are still flying in district 3 and part of 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 rear 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 rear 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 ...	29.58	35	31	E.N.E.	4	b	2	Valencia ...	29.38	47	44	N	1	c.p.	3
Sumburgh Head								Scilly ...	29.26	46	43	N.W.	4	c.p.	5
Stornoway ...	29.54	42	41	E	4	o	4	Jersey ...	29.24	49	44	W	5	b.c.p.m.	4
Aberdeen ...	29.50	36	34	E.N.E.	4	o.g.g.p.	6	Hurst Castle ...	29.14	41	40	N.W.	4	c.p.	4
Shields ...	29.34	36	35	N.E.	6	o	6	Dungeness ...	28.98	37	37	N.W.	5	r	4
Ardrossan ...	29.41	40	39	N.E.	3	c.m.	1	North Foreland ...	28.96	41	40	N	4	o	7
Malin Head ...	29.41	41	38	E.S.E.	6	o	3	London (Westminster)	29.08	38	37	N.W.	4	o.r	6
Mullaghmore ...								Yarmouth ...	28.97	38	37	N.E.	7	o.g.g.	6
Belmullet ...	29.39	43	40	E	3	c	#	Rocheport ...	29.45	46	45	N.W.	5	c	#
Holyhead ...	29.28	41	39	N.E.	4	o.g.	4								

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

Weather dull in the more northern and eastern parts of our Islands and also over the greater part of the Continent, with rain over the Netherlands, western Germany, and the eastern, midland and southeastern counties of England, as well as in many parts of Austria and Algeria. Snow falling in North Germany and the south of Sweden, as well as at Rode and Moscow. Fine on some parts of our western and southern coasts as well as in Spain. Rain, hail, or sleet falling during day over nearly the whole of our Islands, France and Germany,—heavily in places.

Temperature fallen generally, but risen at some of our own northern stations, as well as in Poland and the south of Russia. Morning readings highest 60° at Nimours and Oren, 58° at Palermo and Algiers, and 57° at La Jolla; above 50° at most of the Mediterranean and Adriatic stations, as well as on the coasts of Spain, but below 45° in the Riviera. Lowest 17° F. at Helsingfors and Petersburg, 16° at Archangel, 14° at Ullaborg, and 9° at Utiopsis, below zero over the northern and central parts of Russia generally, and below the freezing point over the whole of northern and eastern Europe, as well as in Central Ireland. Daily maxima below 40° over the northern and eastern parts of the United Kingdom, but thermometer exceeding 45° on our southwest coasts and exceeding 50° in the west and south of France.

Wind moderate to strong from the E. over Norway, Denmark, the Baltic, Scotland, and the north of Ireland. Strong from the N.E. in the east of England, and from the N.W. over the Channel and Bay of Biscay, light or moderate from the S.W. over Belgium, central France, and the southern part of Germany. S. in Italy, Austria, and the south of Russia. Variable in the north of Russia. S.W. in the north of Scandinavia. W. or N.W. in Spain and Algeria. No important change occurring during day.

Barometer highest 30.0 ins. and upwards over Morocco and the south of Spain, 29.6 ins. and upwards over Ireland and the central parts of Scandinavia. Lowest 28.8 ins. and less, in a depression lying between the English and Dutch coasts; gradients steep over the North Sea, and rather steep over the Channel, the Bay of Biscay and Spain. Depression moving slowly eastwards later, and gradually filling up; barometer rising in all parts of Western Europe.

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

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

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

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

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 Friday, 24<sup>th</sup> February, 1893

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

Issued by the Meteorological Office, 63, Victoria Street, London. R. H. SCOTT, Secretary.																			
STATIONS.	YESTERDAY EVENING. (See note at bottom of last page.)						THIS MORNING. (See note at bottom of last page.)										PAST 24 HOURS.		
	Barom.	Temp.	Wind.		Weather.	Sea (0 to 9).	Barometer.		Shade Temp.		Wind.		Weather.	Sea (0 to 9).	Shade Temp.		Amount of Rainfall.		
			Reading at 39° F. and Sea Level.	Dry Bulb.			Dir.	Force (0 to 12).	Reading at 39° F. and Sea Level.	Change since Yesterday Morn.	Dry Bulb.	Wet Bulb.			Change in dry since Yesterday.	Dir.		Force (0 to 12).	Max.
In.				In.										In.					
SCANDINAVIA.	Haparanda ...	29.31	-12	2	0	b	29.25	-14	-8	+ 4	W	2	b	3	-13				
	Hernösand ...	29.48	8	2	0	bc	29.30	-32	3	+ 1	2	0	c	3	21	0			
	Stockholm ...	29.63	4	2	0	b	29.54	-07	7	+ 7	SSW	4	s	6	16	-0.84			
	Wisby ...	29.64	7	1	4	b	29.62	+14	14	+ 8	WSW	6	s	6	16	5			
	Bodö ...	29.33	18	NNW	2	c	29.30	-09	10	- 15	E	2	b	1	2.5	7			
SCANDINAVIA.	Christiansund...	29.29	31	SW	4	s	29.23	-37	30	+ 3	ESE	1	c	3	32	27			
	Skudesnaes ...	29.51	32	SSE	5	0	29.37	-17	35	+ 7	SW	2	0	3	35	28			
	Christiania Fjord (Furder)	29.58	19	SSE	2	c	29.41	-16	28	+ 23	SSW	5	c	1	?	5			
	Skagen (The Seaw)	29.59	19	SW	1	b	29.53	-01	19	- 1	NNW	3	c	1	21	14			
	Fanö ...	29.59	22	ESE	2	b	29.55	+03	22	+ 4	SE	2	0	3	32	18			
SCANDINAVIA.	Sumburgh Head																		
	Stornoway ...	29.44	38	2	0	0	29.34	-22	33	- 1	N	3	S	3	43	30			
	Wick ...	29.44	35	N	2	0	29.30	-25	30	0	N	2	bc	2	40	28			
	Nairn ...	29.47	34	2	0	c	29.34	-24	31	0	2	0	c	0	38	29			
	Aberdeen ...	29.53	34	SW	2	og	29.36	-25	32	- 1	WSW	2	bc	2	39	31			
SCANDINAVIA.	Leith ...	29.55	34	SSE	2	0	29.40	-19	28	- 6	W	2	cm	3	37	27			
	Shields ...	29.54	36	E	1	c	29.37	-19	33	- 2	SW	1	chp	3	38	29			
	Spurn Head ...	29.52	34	E	4	ov	29.37	-12	33	0	SE	2	ov	3	36	31			
	York ...	29.56	37	E	1	c	29.38	-17	31	- 3	ESE	1	0	3	38	28			
	Loughborough	29.33	33	ESE	2	0	29.39	-12	30	- 2	ESE	1	om	3	35	30			
BRITISH ISLANDS.	Ardrossan ...	29.53	36	NE	1	om	29.37	-20	32	- 2	ESE	3	cm	1	36	29			
	Malin Head ...	29.50	36	SSE	1	0	29.32	-24	31	- 2	S	3	om	1	40	31			
	Mullaghmore ...	29.49	37	ESE	3	bc	29.33	-24	34	- 2	ESE	3	cm	2	?	32			
	Behmullet ...	29.51	39	E	2	b	29.33	-23	33	+ 1	E	1	b	3	43	31			
	Donaghadee ...	29.55	36	ESE	5	c	29.37	-20	35	- 2	ESE	5	c	3	37	35			
BRITISH ISLANDS.	Liverpool (Bidston)	29.53	35	E	2	0	29.37	-17	31	- 3	ESE	1	0	2	36	29			
	Holyhead ...	29.51	35	E	2	ogm	29.36	-16	30	- 5	ESE	1	c	2	37	29			
	Parsonstown ...	29.47	36	2	0	0	29.31	-21	34	0	2	0	s	3	39	32			
	Valencia ...	29.45	42	ESE	2	om	29.22	-25	36	- 3	NE	1	c	3	45	33			
	Roche's Point	29.47	40	E	4	c	29.28	-20	34	- 4	E	4	sp	4	43	33			
BRITISH ISLANDS.	Pembroke (St. Ann's Hd.)	29.46	36	E	4	0	29.31	-17	33	- 3	E	3	cg	3	37	33			
	Scilly ...	29.37	42	E	5	c	29.21	-18	43	+ 1	E	5	c	4	43	41			
	Prawle Point ...	29.44	36	ESE	4	0	29.25	-18	37	0	ESE	5	?	4	37	36			
	Jersey (St. Aubin's)	29.40	42	NE	3	bc	29.27	-13	41	+ 1	ESE	3	ogm	3	43	39			
	Hurst Castle ...	29.47	36	NE	4	m	29.33	-11	36	0	E	3	cm	3	38	35			
BRITISH ISLANDS.	Dungeness ...	29.44	36	NE	4	c	29.35	-01	36	- 1	NE	2	0	2	38	33			
	North Foreland	29.45	35	ESE	4	osp	29.35	-03	35	- 2	NE	3	sg	4	37	33			
	London ...	29.51	35	ESE	1	0	29.36	-08	32	- 2	E	2	0	3	34	31			
	Oxford ...	29.50	32	NE	1	0	29.37	-11	31	- 2	NE	1	osp	3	34	30			
	Cambridge ...	29.52	32	NE	2	0	29.37	-11	32	- 1	NE	1	0	3	35	30			
BRITISH ISLANDS.	Yarmouth ...	29.58	33	ESE	4	c	29.38	-03	31	- 2	NNW	2	os	4	34	30			
	Cuxhaven ...	29.54	23	E	4	0	29.49	+07	24	- 4	ESE	3	c	3	26	21			
	Berlin ...	29.56	23	NE	2	b	29.58	+26	18	- 6	E	2	c	3	28	16			
	Wiesbaden ...	*	*	*	*	*	29.47	+24	35	- 2	W	1	0	3	41	34			
	Munich ...	29.45	34	W	6	0	29.52	+18	33	- 2	S	1	bc	3	43	32			
GERMANY & HOLLAND.	The Helder ...	29.54	29	E	3	s	29.45	+04	29	- 3	E	1	0	1	32	27			
	Brussels (a.m.)	*	*	*	*	*	29.41	+11	32	+ 1	ESE	1	f	3	32	29			
	Cape Gris Nez	29.40	34	NE	3	m	29.32	+04	31	- 5	E	1	0	1	37	28			
	Paris ...	29.47	38	N	1	0	29.36	+02	36	- 2	NE	1	0	3	41	35			
	Brest ...	?	44	E	3	0	?	?	41	- 5	E	3	0	3	46	37			
FRANCE AND BELGIUM.	Lorient ...	29.65	47	NE	3	0	29.21	-18	45	+ 3	E	2	f	4	54	41			
	Rochefort ...	29.43	48	WSW	3	0	29.31	-17	45	- 1	WSW	4	0	3	55	43			
	Belfort ...	?	35	W	4	f	?	?	35	+ 3	E	2	c	3	39	32			
	Lyons ...	29.54	44	S	2	0	29.45	-07	39	+ 4	S	1	?	3	51	35			
	Nice ...	29.48	47	NW	4	b	29.57	+21	38	- 5	NE	4	?	4	54	37			
FRANCE AND BELGIUM.	Perpignan ...	29.55	50	SE	2	0	29.43	-17	39	- 5	SW	2	b	3	63	37			
	Biarritz ...																		
	Corunna ...																		
	Lisbon ...	29.66	57	SW	5	c	29.51	-29	56	- 1	SW	6	0	3	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 Friday, 24<sup>th</sup> February, 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 → force 1 to 4.

○—dead calm.

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

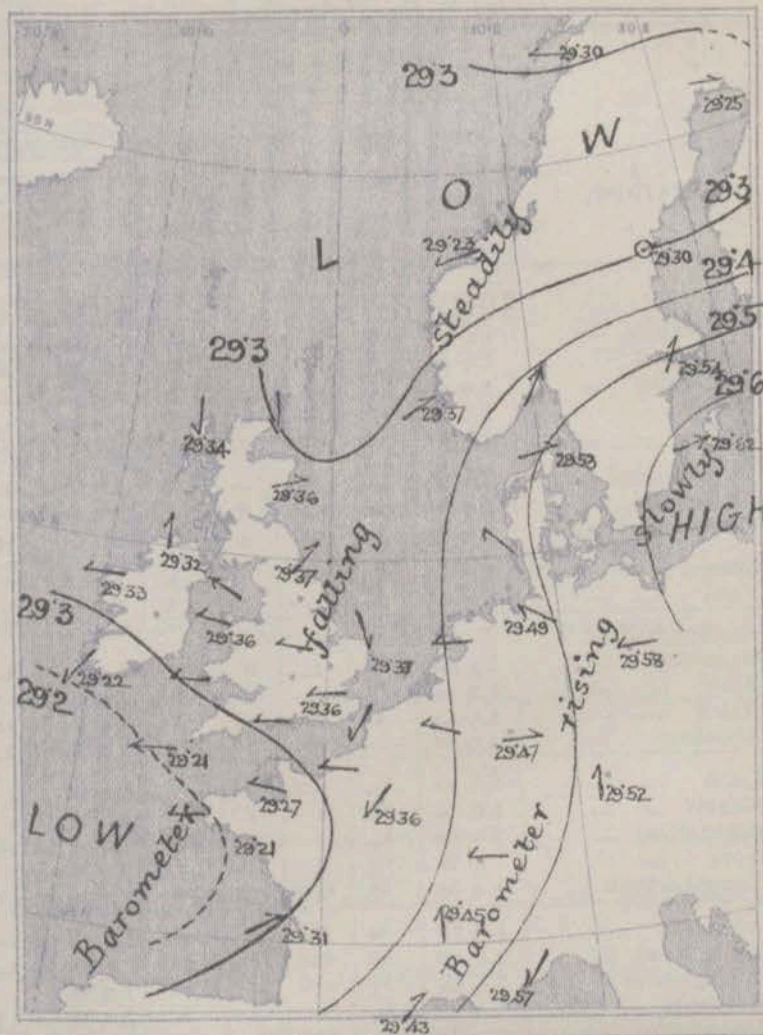
— Rough. — High.

### MEAN HEIGHT OF THE BAROMETER

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

During the 20 Years, 1871—1890.

STATIONS.	MEAN READINGS.
Sunbury Head	29.775
Stormway	29.773
Wick	29.834
Nairn	29.814
Aberdeen	29.845
Leith	29.870
Shields	29.905
Spurn Head	29.934
York	29.930
Loughborough	29.963
Ardrossan	29.973
Mullaghnore	29.954
Donaghadee	29.884
Holyhead	29.914
Liverpool	29.934
Parsonstown	29.900
Valencia	29.919
Rocha's Point	29.910
Pembroke	29.937
Sally	29.959
Pravie Point	29.993
Jersey	30.007
Hurst Castle	29.990
Dover	29.983
LONDON	29.980
Oxford	29.985
Cambridge	29.970
Yarmouth	29.965



## 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.

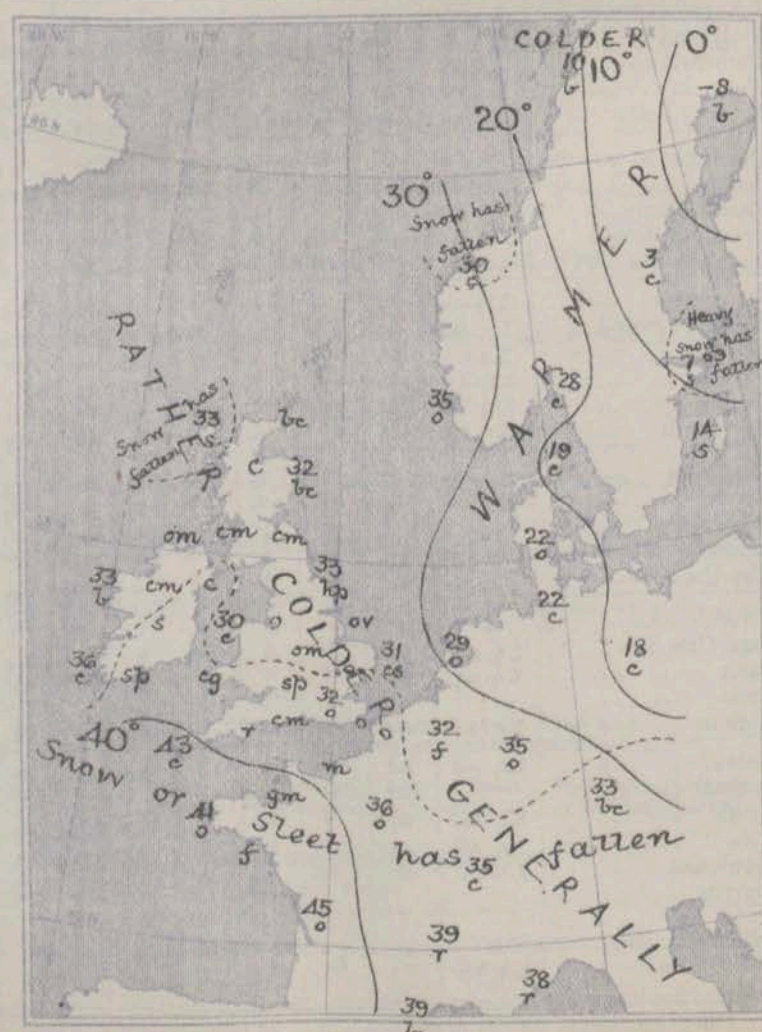
**RAINFALL**—A dotted line separates the districts in which rain has fallen from those where there has been none. Falls of 0.5 in. or more are quoted in figures.

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

(For the month of February.)

STATIONS.	TEMPERATURE				RAINFALL inches
	Daily Max.	Daily Min.	at 8 a.m.	at 4 p.m.	
Sunbury Head	42.4	34.5	38.5	37.4	3.19
Stormway	43.5	34.5	38.1	38.1	3.86
Wick	43.1	35.2	38.1	36.7	2.01
Nairn	43.1	35.4	37.1	35.4	1.18
Aberdeen	43.2	35.8	37.8	35.7	2.36
Leith	43.7	34.8	38.6	37.1	1.46
Shields	43.8	35.1	38.6	37.3	1.00
Spurn Head	42.8	35.9	38.4	37.6	1.16
York	41.6	34.9	37.5	36.4	1.70
Loughborough	43.3	35.9	37.5	36.1	1.78
Ardrossan	41.5	35.5	38.4	38.2	3.04
Mullaghnore	45.6	35.8	42.9	40.3	3.09
Donaghadee	45.6	35.9	40.3	37.5	2.42
Holyhead	43.5	38.7	41.5	40.7	2.50
Liverpool	44.6	36.2	38.9	37.3	1.69
Parsonstown	46.9	36.6	39.4	38.1	2.20
Valencia	49.7	40.7	44.6	42.9	4.95
Rocha's Point	48.4	39.6	45.1	41.5	4.43
Pembroke	45.6	39.4	42.7	40.9	2.84
Sally	48.9	42.8	45.0	41.4	2.71
Pravie Point	46.8	38.1	41.5	40.5	2.02
Jersey	48.9	39.8	42.8	41.0	2.55
Hurst Castle	45.7	38.7	40.5	39.3	2.25
Dover	44.1	36.1	39.2	38.1	1.05
LONDON	45.5	36.1	38.6	37.4	1.73
Oxford	45.0	34.9	37.9	36.8	1.82
Cambridge	45.5	32.8	37.8	36.2	1.16
Yarmouth	49.6	34.6	38.2	37.3	1.82

**NOTE.**—The Temperature means are for the 20 years 1871-90, the Rainfall means are mainly those for the 35 years 1865-90.



# GENERAL SITUATION AT 8 A.M.

## PRESSURE

Highest, 29.6 ins. and more to 29.4 ins. over the Baltic, Germany, the east of France, and the southern part of Spain.  
 Lowest, about 29.2 ins. in a depression lying off our southwestern coast, and 29.0 ins. and less, in another over the Firths and the northern half of Scandinavia.  
 Gradients slight and variable.  
 Barometer falling except over Germany and the south of France; Valencia, however, reports "fall of barometer now checked".

## TEMPERATURE

Highest, 56° at Lisbon, 45° at Rochefort, and 43° at Scilly.  
 Lowest, -8° at Haparanda, +7° at Stockholm, 10° at Rode, 19° at the Scaw, 20° at Leth, 30° to 32° over our inland countries.  
 The range of temperature during the past day has been small, and the maxima were below 40° except in the extreme west and southwest.

## WIND

(1) Moderate to strong from the S.W. at Lisbon and in the southwest of France, light to moderate from the E. over the Channel and the southern half of our Islands.  
 (2) N. to W. light over Scotland, S.W. in the south of Norway, E. at Rode and Christiansund.

## WEATHER

Cloudy or overcast very generally, with a little hail at Shields, snow at our southeastern stations <sup>(and at Denmark)</sup>, cold rain at Rode P.  
 Light cold showers have fallen at most of our southern and western stations, and a moderate amount of rain in the southwest and south of France.

## SEA

Moderate on the southeastern, southern, and southwestern coasts, slight to smooth elsewhere.

## PROBABLE CHANGES IN SYSTEM NOW PREVALENT

The movements of the two low-pressure areas are uncertain at present — but that off our southwestern coasts seems to be spreading eastwards.

# FORECASTS

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

## DISTRICTS.

## FORECASTS.

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

Varying and N. to E. and light breezes;  
 cold, some snow.  
 E. breezes, light or moderate; cold;  
 some snow.

## DISTRICTS.

## FORECASTS.

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

Same as N<sup>o</sup> 0 to 2.  
 Same as N<sup>o</sup> 3 to 5.  
 E. to N.E. winds, fresh to light; some cold showers.  
 Same as N<sup>o</sup> 0 to 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. Direc.	F.	WEA.	SEA.		BAR.	THER.		WIND. Direc.	F.	WEA.	SEA.
		Dry.	Wet.							Dry.	Wet.				
Skudesnaes ...	29.56	53	28	SSE	4	c	2	Valencia ...	29.48	44	41	E	2	om	3
Sumburgh Head								Scilly ...	29.40	40	39	E	4	m	5
Stornoway ...	29.52	42	39	W	3	c	3	Jersey ...	29.42	43	40	ESE	3	ogm	3
Aberdeen ...	29.57	36	32	W	2	c	4	Hurst Castle ...	29.47	37	36	ESE	3	omgrs	3
Shields ...	29.57	37	35	ESE	2	c	5	Dungeness ...	29.43	37	35	NE	4	c	3
Ardrossan ...	29.56	36	33	NE	1	om	0	North Foreland ...	29.44	35	35	NE	4	sp	6
Malin Head ...	29.52	38	35	S	2	bc	2	London (Westminster)	29.49	36	33	NE	2	om	5
Mullaghmore ...								Yarmouth ...	29.46	33	31	NE	5	c	5
Belmullet ...	29.54	37	33	E	2	b	4	Rochefort ...	29.48	51	50	NE	3	bc	4
Holyhead ...	29.53	35	30	E	2	ogm	2								

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

Weather fine and bright in the extreme northwest of our islands, as well as over the greater part of Scandinavia, Denmark, the Baltic, Spain, and the south of France. Cloudy or overcast elsewhere, with sleet or hail showers over the southeastern parts of England, rain at Brussels, Bismarck, and Trieste, and snow at several of the Russian stations. Rain falling later over France and the southwest of our islands, and heavy snow in the south of Sweden.

Temperature fallen generally, but risen in some parts of Scandinavia and northern Russia. Morning readings, highest 59° at Algiers, 57° at Lisbon, 56° at Nemours and Oram, and 55° at Malta, above 50° at most of the Mediterranean stations, but below 45° in the Riviera. Lowest -16° Fast at Uleaborg, -12° at Haparanda, -10° at Uppsala, -8° at St Petersburg; below zero over the north of Sweden and the northern and central parts of Russia generally, considerably below the freezing point in Denmark and North Germany, and slightly below it in the north of Holland. Daily maxima below 40° in most parts of the United Kingdom, but exceeding 50° in the west and south of France, and reaching 63° at Rhipisaw.

Wind NE<sup>3</sup> over England, Ireland, the Netherlands, Denmark, the Baltic, and the most northern parts of France and Germany. Light or moderate in force generally, but strong on the east coast of England; light and variable in Scotland. W<sup>1</sup> or NW<sup>4</sup> over the greater part of France; SW<sup>4</sup> over the south of Germany. Light from the N<sup>2</sup> or NW<sup>2</sup> in Finland and the south of Sweden; S<sup>4</sup> in the south of Russia. Light or moderate from the SW<sup>2</sup> in Algeria and the southern parts of Italy. No important change occurring during day.

Barometer highest 30.0 ins. and upwards over Morocco; 29.6 ins. and upwards over the central part of Scandinavia. Lowest 29.1 ins. and less, in a depression lying over the south of Russia; trough of relatively low pressure extending across Germany, the Netherlands, the Channel and north of France; 29.2 ins. and less, in a depression lying over the north of Russia. Slight fall taking place later in most parts of Western Europe, and shallow depression appearing off our southwestern 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 Saturday, 25<sup>th</sup> February, 1893

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

STATIONS.	YESTERDAY EVENING. (See note at bottom of last page.)					THIS MORNING. (See note at bottom of last page.)										PAST 24 HOURS.			
	Barom.	Temp.	Wind.			Barometer.		Shade Temp.		Wind.						Shade Temp.			
	Reading at 3 P.M. and Sea Level.	Dry Bulb.	Dir.	Force (0 to 12).	Weather.	Reading at 3 P.M. and Sea Level.	Change since Yesterday Morning.	Dry Bulb.	Wet Bulb.	Change in dry since Yesterday.	Dir.	Force (0 to 12).	Weather.	Sea (0 to 9).		Max.	Min.	Amount of Rain (in).	
	Inch.	°				Inch.		°	°							°	°	Inch.	
SCANDINAVIA.	Haparanda ...	29.35	-4	W	2	b	29.57	+32	-18	-19	-10	2	0	bc	#	6	3	-24	-
	Hernösand ...	29.50	-1	W	0	b	29.69	+39	2	2	-1	1	0	bc	#	6	23	-4	-
	Stockholm ...	29.49	22	SW	2	0	29.61	+07	18	17	+11	SE	2	0	#	0	25	0	-
	Wisby ...	29.60	21	SW	4	0	29.54	-08	19	18	+5	SE	4	0	#	0	24	1	-
	Bodo ...	29.42	13	E	2	b	29.53	+22	15	13	+5	E	2	6	1	6	15	7	-
	Christiansund ...	29.27	30	E	2	c	29.28	+05	24	28	-1	E	4	c	3	c	32	27	-
	Skudesnaes ...	29.31	32	SSE	8	0	29.32	-05	28	26	-7	SSE	7	0	4	0	36	27	-
	Christiania Fjord (Fjord)	29.41	26	SSW	4	b	29.44	+03	20	19	-8	SSE	4	0	1	6	32	19	-
	Skagen (The Sea)	29.45	24	SSE	3	0	29.41	-12	21	20	+2	SE	2	3	1	0	25	18	-
	Fanø ...	29.38	27	SE	3	S	29.28	-27	20	29	+7	SE	2	0	#	3	32	22	0.16
BRITISH ISLANDS.	Sumburgh Head	29.28	35	N	4	S	29.33	-01	27	27	-6	N	4	S	4	0.2	27	26	0.08
	Stornoway ...	29.25	34	E	1	S	29.29	-02	29	28	-1	N	2	bc	2	S	40	27	0.10
	Wick ...	29.23	33	W	0	c	29.27	-07	32	32	+1	NE	3	c	2	c	37	27	0.27
	Nairn ...	29.27	34	N	1	0	29.26	-10	34	31	+2	NNE	3	c	4	c	41	31	0.02
	Aberdeen ...	29.26	33	ESE	2	c	29.26	-14	29	28	+1	SW	2	m	#	c	42	27	-
	Leith ...	29.26	33	W	0	c	29.23	-14	29	29	-4	NW	1	bc	2	hp, sp	39	28	-
	Shields ...	29.24	32	NNE	1	og	29.21	-16	32	31	-1	NW	1	b	2	og	33	30	-
	Spurn Head ...	29.27	31	ESE	1	0	29.24	-14	31	31	0	N	1	c	#	0	34	29	0.01
	York ...	29.27	32	ESE	1	0	29.25	-14	31	29	+1	E	1	ogm	#	0	33	30	-
	Loughborough	29.27	32	ESE	1	0	29.25	-14	31	29	+1	E	1	ogm	#	0	33	30	-
GERMANY & HOLLAND.	Ardrossan ...	29.26	36	W	0	ogm	29.27	-10	29	28	-3	W	0	bc	0	c	40	26	-
	Malin Head ...	29.25	34	SSE	2	ogm	29.25	-07	32	30	+1	SSE	2	0	1	om	38	30	-
	Mullaghmore ...	29.24	36	SW	1	c	29.24	-09	28	28	-6	ENE	1	b	1	om, cgm	40	26	-
	Belmullet ...	29.24	37	ESE	3	bc	29.25	-08	32	29	-1	E	1	b	#	bc	43	30	-
	Donaghadee ...	29.27	34	E	4	c	29.27	-10	33	31	-2	E	4	b	2	c	37	31	-
	Liverpool (Midston)	29.26	30	ESE	1	S	29.24	-13	31	31	0	SE	1	S	1	S	32	30	-
	Holyhead ...	29.22	32	E	1	ogm	29.24	-12	33	33	+3	W	0	ogm	0	ogm	34	30	-
	Parsonstown ...	29.23	33	W	0	S	29.27	-04	23	22	-11	W	0	b	#	os	35	22	0.05
	Valencia ...	29.21	40	ENE	2	cm	29.19	-03	37	36	+1	E	4	c	3	bc, c	44	30	-
	Roche's Point	29.20	35	E	3	0	29.25	-03	34	33	0	ESE	4	bc	4	15.0	39	32	0.55
FRANCE AND BELGIUM.	Pembroke (St. Ann's Hill)	29.19	36	E	2	bc	29.25	-06	34	33	+1	ENE	2	cq	1	c	36	32	-
	Scilly ...	29.09	44	NNE	5	c	29.22	+01	41	40	-2	S	1	cw	3	c	45	39	0.03
	Pravle Point ...	29.12	40	ESE	5	T	29.26	+01	32	31	-5	NE	2	b	1	ogt	42	30	0.10
	Jersey (St. Aubin's)	29.09	45	E	5	ogm	29.17	-10	41	39	0	NNE	3	ogm	3	og, p	43	40	0.22
	Hurst Castle ...	29.19	37	E	4	ogm	29.24	-09	34	32	-2	NNE	3	bc	2	og, cgm	41	31	-
	Dungeness ...	29.22	37	ENE	3	0	29.15	-20	37	35	+2	NE	4	0	3	c, sp	38	34	0.01
	North Foreland	29.24	36	NE	2	og	29.15	-20	38	35	+3	N	4	0	4	shp, og	38	33	0.01
	London ...	29.25	35	E	1	cm	29.22	-14	32	31	0	NE	1	bm	#	os, bc, m	37	30	-
	Oxford ...	29.23	32	E	1	c	29.25	-12	29	28	-2	NNE	1	0	#	o, c	35	29	-
	Cambridge ...	29.27	34	NE	1	0	29.23	-14	30	30	-2	N	1	bc	#	0	38	29	-
PENINSULA.	Yarmouth ...	29.25	33	NW	2	ogm	29.18	-20	33	32	+2	NW	2	ogm	4	so, vmq	33	30	0.04
	Cuxhaven ...	29.36	31	SE	3	0	29.25	-24	31	30	+9	E	3	f	#	0	31	22	-
	Berlin ...	29.43	28	R	2	c	?	?	30	29	+12	SE	2	bc	#	bc	30	18	-
	Wiesbaden ...	?	#	#	#	#	29.20	-27	38	37	+3	W	1	0	#	#	43	34	0.12
	Munich ...	29.35	37	SW	2	bc	29.30	-22	38	36	+5	ESE	5	0	#	c	45	32	-
	The Helder ...	29.29	33	ESE	1	c	29.19	-26	34	34	+5	NE	1	f	1	c	36	28	-
	Brussels (p.m.)	?	#	#	#	#	29.10	-31	36	36	+4	NE	1	7	#	0	40	32	0.12
	Cape Gris Nez	29.19	36	E	1	0	?	?	35	35	+4	NNE	5	0	4	0	39	31	0.08
	Paris ...	29.18	44	ESE	1	0	29.06	-30	42	42	+6	SW	2	0	#	0	46	36	0.24
	Brest ...	?	45	NE	3	f	?	?	42	41	+1	NNE	1	0	2	f	46	37	0.32
GERMANY & HOLLAND.	Lorient ...	29.00	46	SE	4	0	29.19	-02	45	41	0	N	4	c	2	9	48	43	0.16
	Rochefort ...	29.13	45	SSE	3	c	29.23	-08	49	47	+4	W	6	c	#	tl, c	49	41	0.55
	Belfort ...	?	40	NE	3	T	?	?	39	36	+4	W	4	0	#	T	46	32	-
	Lyons ...	29.26	49	S	3	0	29.29	-16	44	40	+5	S	1	c	#	0	50	39	0.08
	Nice ...	29.52	44	W	0	0	29.36	-21	44	43	+6	E	1	c	#	0	48	38	1.14
	Perpignan ...	29.25	50	SW	2	0	29.40	-03	42	40	+3	SW	2	b	#	0	54	39	-
	Biarritz ...	?	#	#	#	#	?	?	?	?	?	?	?	?	?	?	?	?	-
	Corunna ...	?	#	#	#	#	?	?	?	?	?	?	?	?	?	?	?	?	-
	Lisbon ...	29.62	53	WSW	5	bc	29.79	+28	53	49	-3	WSW	4	bc	#	bc	67	50	0.51

For Explanation of Columns, see bottom of last page

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

# WEATHER CHARTS

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

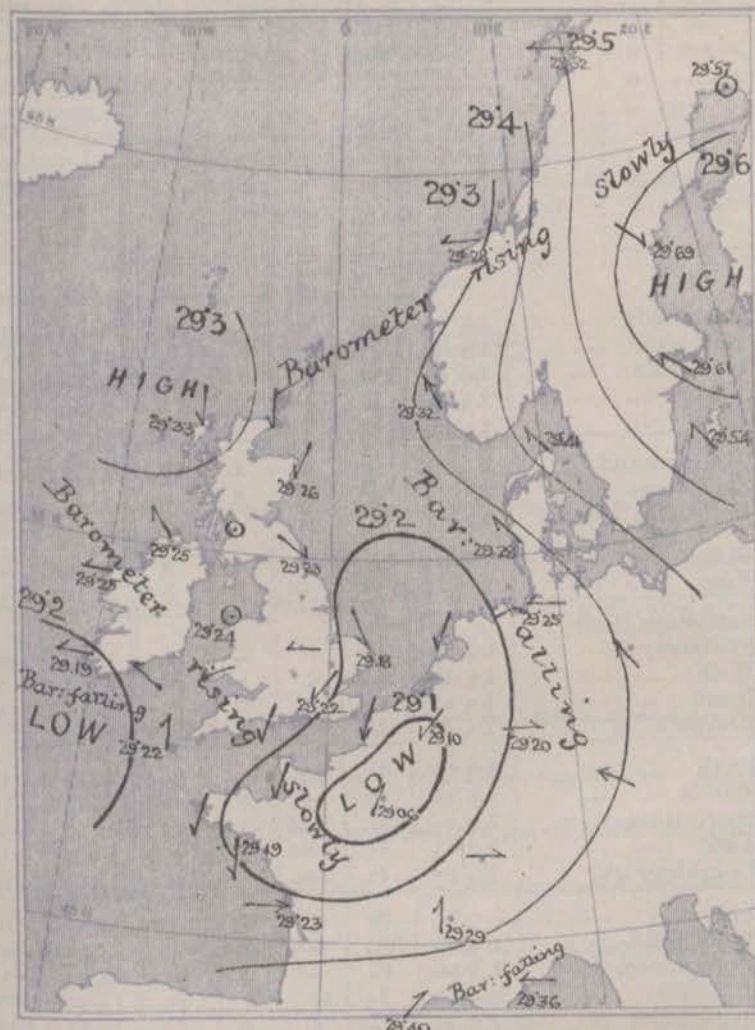
**SEA DISTURBANCE**—Where considerable, is shown thus:

— Rough. — High.

### MEAN HEIGHT OF THE BAROMETER.

at 8.0 a.m. for the month of February  
During the 20 Years: 1871—1890

STATIONS.	MEAN READINGS.
Sumburgh Head	29.773
Stornoway	29.773
Wick	29.834
Nairn	29.814
Aberdeen	29.818
Leith	29.870
Shields	29.900
Spurn Head	29.934
York	29.939
Loughborough	29.963
Androssan	29.873
Mullaghmore	29.834
Donaghadee	29.884
Holyhead	29.914
Liverpool	29.934
Parsonstown	29.906
Valencia	29.919
Roche's Point	29.949
Pembroke	29.937
Selly	29.959
Prawle Point	29.994
Jersey	30.007
Hurst Castle	29.986
Dover	29.983
LONDON	29.939
Oxford	29.983
Cambridge	29.979
Yarmouth	29.964



## 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 February.)

STATIONS.	TEMPERATURE.				RAINFALL. (inches)
	(MAX.) Min.	Daily Min.	at 8 a.m. Day.	at 8 a.m. Night.	
Sumburgh Head	42.4	34.5	38.5	37.4	3.19
Stornoway	43.5	34.6	39.1	38.1	3.89
Wick	43.1	33.2	38.1	36.7	2.04
Nairn	43.4	33.4	37.1	35.4	1.48
Aberdeen	43.2	33.8	37.3	35.7	2.35
Leith	45.7	34.3	38.6	37.1	1.45
Shields	43.8	35.1	39.6	37.3	1.30
Spurn Head	42.3	35.9	38.4	37.6	1.90
York	44.6	35.9	37.5	36.4	1.70
Loughborough	45.3	35.9	37.5	36.4	1.70
Androssan	41.6	36.3	39.4	38.2	3.04
Mullaghmore	46.6	38.6	42.0	40.3	3.09
Donaghadee	45.3	35.9	40.3	39.3	2.42
Holyhead	46.5	38.7	41.5	40.1	2.00
Liverpool	44.5	36.2	38.9	37.3	1.69
Parsonstown	40.9	35.6	39.4	38.1	2.20
Valencia	49.7	40.7	44.6	42.9	4.95
Roche's Point	48.4	39.6	43.1	41.6	4.43
Pembroke	45.5	39.4	42.1	40.9	2.84
Selly	48.9	42.8	46.0	44.4	1.71
Prawle Point	46.8	38.1	41.5	40.5	2.02
Jersey	46.9	39.3	42.3	41.0	2.55
Hurst Castle	45.7	38.7	40.3	39.3	2.25
Dover	44.3	36.1	39.2	38.1	1.95
LONDON	45.5	36.1	38.6	37.4	1.73
Oxford	45.0	34.9	37.9	36.8	1.92
Cambridge	45.5	32.5	37.3	36.2	1.16
Yarmouth	49.5	34.5	38.2	37.3	1.89

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) 29.6 in. and more to 29.9 in. over Iceland, the Baltic, and Scandinavia; (2) 29.4 in. and more over Spain.  
 Lowest, (1) 29.1 in. and less, in a depression over the northeast of France; (2) 29.2 in. and less, off the southwest of Ireland.  
 Gradients moderate (for N.E. winds) over the Channel, slight and irregular elsewhere.  
 Barometer falling in the southwest, rising in the north, and inclined to rise again in the southeast.

## TEMPERATURE

Highest, 53° at Lisbon, 49° at Rochefort, and above 40° over the western, western, and central parts of France generally.  
 Lowest, -18° F at Haparanda, +15° at Rode, 18° at Stockholm, 22° at Rangoon, 23° at Kiel, and 29° to 32° over the inland parts of England.  
 It rose to 40° or more at many of our stations yesterday, but did not exceed 38° on our southeast coast.

## WIND

SE<sup>1</sup> to E<sup>1</sup> and moderate over Scandinavia; NE<sup>1</sup> over the south of England, the Channel, and north of France;  
 Variable over the northwestern parts of the United Kingdom, W<sup>1</sup> and SW<sup>1</sup> in the southwest of France.  
 It is reported to be blowing very strongly at La Hève, and freshly at C. F. N. N.

## WEATHER

Fine in many parts of our Islands, but changeable and unsettled in the far south, rain at Bristol and Moore.  
 A Solar halo prevails at Hunt Castle.  
 Light snow has fallen in the extreme north and southwest of our Islands, considerable snow and rain at Rochefort, and considerable rain over France - especially at Kiel.

## SEA

High at La Hève, moderate in the southeast and also in the far north, slight or smooth elsewhere.

## PROBABLE CHANGES IN SYSTEM NOW PREVALENT

The depression over the northeast of France seems to be moving eastwards, but another is approaching our southwestern coasts from the westward. General appearance is very changeable.

# FORECASTS

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

## DISTRICTS.

## FORECASTS.

- |   |                  |  |
|---|------------------|--|
| 0 | SCOTLAND NORTH   | N <sup>1</sup> and NE <sup>1</sup> winds, moderate; cold, some snow showers. |
| 1 | SCOTLAND EAST    |  |
| 2 | ENGLAND N.E.     | NE <sup>1</sup> to E <sup>1</sup> winds; cold, dry, some snow occasionally.  |
| 3 | ENGLAND EAST     |  |
| 4 | MIDLAND COUNTIES |  |
| 5 | ENGLAND SOUTH    |  |
|   |                  | NE <sup>1</sup> winds, freshening in the Channel, some snow at times.        |

## DISTRICTS.

## FORECASTS.

- |    |               |  |
|----|---------------|--|
| 6  | SCOTLAND WEST | Same as Nos 0 and 1.   |
| 7  | ENGLAND N.W.  |  |
| 8  | ENGLAND S.W.  | SE <sup>1</sup> and E <sup>1</sup> winds, freshening; some snow.                   |
| 9  | IRELAND NORTH | SE <sup>1</sup> to NE <sup>1</sup> winds, fine at first, showery later, with snow. |
| 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. Dirac.	F.	WEA.	SEA.		BAR.	THER.		WIND. Dirac.	F.	WEA.	SEA.
		Dry.	Wet.							Dry.	Wet.				
Skudesnaes ...	29.35	35	33	E	6	0	3	Valencia ...	29.23	40	40	E	1	bc m	1
Seaburgh Head ...								Scilly ...	29.14	41	41	NNE	4	c	4
Stornoway ...	29.82	37	36	NW	3	0	3	Jersey ...	29.15	45	43	E	3	og m	3
Aberdeen ...	29.29	37	32	WNW	1	c	2	Hurst Castle ...	29.25	40	38	E	4	og	3
Shields ...	29.31	37	34	E	2	c	3	Dungeness ...	29.27	38	36	E	3	c	2
Ardrrossan ...	29.30	39	36	ESE	1	c	0	North Foreland ...	29.27	35	33	NE	2	0	4
Malin Head ...	29.27	37	37	S	3	0	1	London (Woburn) ...	29.29	37	36	E	1	og m	5
Mullaghmore ...	29.27	40	37	ESE	1	om	1	Yarmouth ...	29.29	32	31	WNW	2	0	4
Behnallet ...	29.27	43	39	ESE	2	b	2	Rochefort ...	29.12	48	47	SSE	4	7	2
Holyhead ...	29.27	32	30	E	1	og	2								

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

Weather cloudy or overcast in most parts of our Islands, with snow or hail showers in several places, but fine in the east of Scotland. Cloudy also over the greater part of the Continent, with rain over the southern parts of France, and with snow at several of the Swedish and Russian stations. Fine in the north of Scandinavia, as well as over the Adriatic and Algeria. Heavy snow and rain falling during day at Rochefort, and heavy rain (1.1 in.) at Aix. Thunder and lightning occurring at Rochefort.

Temperature fallen at all but the Scandinavian and Danish stations. Morning readings highest 63° at Algiers, 60° at Barcelona, 57° at La Calk and 56° at Lubow and Nemours, above 50° at most of the Mediterranean stations and also on the coasts of Spain, but below 40° in the Riviera. Lowest—19° Fahrenheit at St. Petersburg, 18° at Ulenborg, 12° at Krasnoyarsk, and 10° at Archangel, below zero over the northern parts of Sweden and Russia generally, and below the freezing point over the whole of northern and eastern Europe as well as in most parts of Great Britain. Daily maxima below 40° in many parts of the United Kingdom, and as low as 32° at Holyhead.

Wind moderate from the S<sup>W</sup> or S<sup>W</sup> in Spain, Algeria, and the southern parts of France, light or moderate from the E<sup>SE</sup> over Ireland, England, Denmark, the Netherlands, and the northern parts of France and Germany. Light from between N and W in Scotland; S<sup>W</sup> over Sweden and the south of Norway; E<sup>SE</sup> in the west of Norway. N<sup>W</sup> in the south of Russia; calm in Austria, light and variable in Italy. No important change occurring later.

Barometer highest 29.80 in. to 29.95 in. over Algeria, the south of Italy, and the central parts of the Mediterranean; 29.7 in. and upwards over Poland and the Baltic Provinces. Lowest 29.2 in. and less in a shallow depression lying to the south-westward of our Islands, 29.3 in. and less in a large area stretching from the White Sea across the northern and western parts of Scandinavia to the north of Scotland. Depression in southeast subsequently moving eastwards, and barometer falling rather decidedly over France and the south 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.

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 Sunday 26<sup>th</sup> February

1893

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

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		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.	
STATIONS.		Reading at 32° F. and Sea Level.	Dry Bulb.	Dirac.	Force (0 to 12).	Weather.	Reading at 32° F. and Sea Level.	Change since Yesterday Morn.	Dry Bulb.	Wet Bulb.	Change in dry since Yesterday.	Dirac.	Force (0 to 12).	Weather.	Sea (0 to 9).		Max.	Min.		
		Ina.	°				Ina.	°	°	°	°									
SCANDINAVIA.	Haparanda ...	29.84	-19	Z	0	b	29.88	+31	0	0	+15	Z	0	s	#	0	0	-20	—	
	Hernösand ...	29.71	13	Z	0	0	29.78	+09	14	14	+12	Z	0	a	#	0	14	-9	0.08	
	Stockholm ...	29.61	11	ENE	2	0	29.58	-03	20	20	+2	ENE	2	f	#	0	25	10	—	
	Wisby ...	29.53	23	SE	4	0	29.43	-11	28	27	+9	SE	6	s	#	0	2	5	—	
	Bodö ...	29.56	18	E	4	b	29.61	+09	18	16	+3	E	4	b	2	0	19	14	—	
	Christiansund...	29.34	33	SE	3	c	29.43	+15	28	26	-1	ESE	6	b	3	c	36	27	—	
	Skudesnaes ...	29.42	30	E	2	c	29.47	+05	28	26	0	ESE	3	b	2	c	34	25	—	
	Christiania Fjord (Fjord)	29.49	14	NNE	3	0	29.53	+09	18	18	-2	NNW	4	0	1	0	20	16	—	
	Skagen (The Scaw)	29.41	26	FNE	3	s	29.43	-02	23	23	+2	E	5	s	3	s	27	19	0.12	
	Fanö ...	29.27	32	SE	1	0	29.42	+14	31	31	+2	WNW	2	b	#	3.0	32	25	0.59	
BRITISH ISLANDS.	Sumburgh Head	29.34	28	Z	0	0	29.30	-03	25	24	-2	N	2	b	2	3.0	31	22	0.05	
	Stornoway ...	29.31	32	NNW	1	b	29.27	-01	19	18	-10	Z	0	b	0	0	34	18	—	
	Wick ...	29.30	31	Z	0	0	29.29	+02	18	18	-14	Z	0	b	0	0	38	11	—	
	Nairn ...	29.33	28	N	2	c	29.29	+03	28	27	-6	NNW	2	egsp	3	eg	36	26	0.01	
	Leith ...	29.31	32	W	2	0	29.17	-09	35	33	+6	ENE	2	0	#	0	40	27	—	
	Shields ...	29.31	35	NNW	1	b	29.15	-08	33	33	+4	E	5	s	4	hsp, bc	41	28	0.24	
	Spurn Head ...	29.32	34	WSW	2	cm	29.08	-13	38	37	+6	SE	6	r	5	cm, rs	38	30	0.06	
	York ...	29.32	33	WNW	1	0	29.05	-19	35	35	+4	E	3	st	#	0.15	36	29	0.44	
	Loughborough	29.35	33	W	1	b	29.01	-24	37	36	+6	SE	5	rg	#	0.5	38	29	0.13	
	Ardrossan ...	29.30	35	E	1	0	29.09	-18	32	32	+3	ENE	4	cm	2	0	40	27	—	
GERMANY & HOLLAND.	Malin Head ...	29.26	34	SSE	2	b	29.07	-18	35	34	+3	ENE	7	eg	3	b	39	31	—	
	Mullaghmore ...	29.24	36	ENE	4	bc	29.02	-22	35	34	+7	N	7	egsq	6	b, bc	38	28	—	
	Belmullet ...	29.23	35	ENE	3	bc	29.06	-19	36	33	+4	NE	3	0	#	0.5	39	29	—	
	Donaghadee ...	29.25	35	SSE	3	c	29.02	-26	34	34	+1	ESE	8	0	6	c	38	32	0.10	
	Liverpool (Bidston)	29.24	34	SSW	1	0	28.87	-37	36	36	+5	E	3	s	3	0	36	31	0.23	
	Holyhead ...	29.28	35	ESE	1	cmg	28.88	-36	35	35	+2	E	3	rmg	2	b, og	37	32	0.16	
	Parsonstown ...	29.19	33	NE	1	0	28.91	-36	33	32	+10	Z	0	0	#	3.0	38	21	0.14	
	Valencia ...	29.07	29	E	3	c	29.01	-18	38	36	+1	NNW	3	0	3	rc	41	32	0.15	
	Roche's Point	29.10	35	ESE	4	rs	28.95	-30	35	34	+1	NNW	3	b	4	smf	42	32	0.70	
	Pembroke (St. Ann's Hd.)	29.30	41	ESE	5	r	28.83	-42	36	36	+2	NNW	4	rg	4	r	42	34	0.08	
FRANCE AND BELGIUM.	Scilly ...	29.18	44	SSW	5	0	28.91	-31	44	41	+3	W	4	c	3	0	51	39	0.47	
	Prawle Point ...	29.31	43	S	4	c	28.86	-40	40	40	+8	W	6	ru	5	0.12	45	38	0.26	
	Jersey (St. Aubin's)	29.37	45	ESE	3	bm	28.92	-25	46	44	+5	SE	7	orm	5	m, b	49	39	0.04	
	Hurst Castle ...	29.38	40	SW	3	bm	28.96	-28	44	43	+10	S	8	orm	4	b, bc	45	32	0.25	
	Dungeness ...	29.38	40	NNW	2	0	29.19	+04	40	39	+3	S	6	rg	3	b, 0	42	35	0.02	
	North Foreland	29.38	37	WNW	2	c	29.18	+03	40	38	+2	SSE	4	pg	6	c	40	35	—	
	London ...	29.39	36	SW	1	bm	29.09	-13	40	39	+8	SSE	6	org	#	bm, org	42	31	0.14	
	Oxford ...	29.39	36	S	1	m	28.96	-19	40	39	+11	SE	4	rg	#	m	42	29	0.27	
	Cambridge ...	29.37	37	SW	1	b	29.09	-14	38	38	+8	SE	4	r	#	b	44	26	0.03	
	Yarmouth ...	29.32	36	NNW	1	b	29.26	+08	39	37	+6	SSE	6	cgg	5	c, bc	39	32	0.04	
PENINSULA.	Cuxhaven ...	29.19	33	SE	1	m	29.42	+17	33	32	+2	WSW	2	b	#	m	33	34	0.04	
	Berlin ...	29.27	39	SE	3	0	29.57	?	36	34	+6	W	3	0	#	0	39	34	—	
	Wiesbaden ...	29.40	41	SW	5	b	29.15	+45	36	34	-2	Z	0	0	#	0	45	34	0.12	
	Munich ...	29.10	41	SW	5	b	29.11	+41	39	37	+1	W	2	b	#	0	46	37	—	
	The Helder ...	29.34	36	NNW	2	c	29.11	?	32	31	-2	S	2	c	1	c	37	30	—	
	Brussels (9 a.m.)	29.36	39	WNW	2	b	29.46	+36	36	34	+0	SSE	5	c	#	b	37	31	0.04	
	Cape Gris Nez	29.46	40	NNW	2	0	29.22	?	36	35	+1	SSE	5	c	4	b	41	32	—	
	Paris ...	29.46	48	NNW	4	0	29.40	?	38	36	-4	SE	3	0	#	0	45	32	—	
	Brest ...	29.41	47	SSW	4	b	28.97	-22	49	47	+4	SSW	8	r	5	0	48	41	1.02	
	Lorient ...	29.41	47	SSW	4	b	28.97	-22	49	47	+4	SSW	8	r	5	0	48	41	1.02	
GERMANY & HOLLAND.	Rochefort ...	29.57	47	NNW	3	b	29.30	+07	47	44	-2	SSW	6	0	#	b	50	45	0.04	
	Belfort ...	29.57	45	SW	5	r	29.27	?	32	31	-7	WNW	1	0	#	b	51	31	0.35	
	Lyons ...	29.54	44	W	1	c	29.61	+23	37	35	-7	E	1	m	#	r	58	36	0.06	
	Nice ...	29.48	49	W	3	b	29.73	+37	45	41	+1	SW	1	c	3	c, b	52	37	0.35	
	Perpignan ...	29.66	50	SW	1	b	29.61	+21	40	39	-2	SW	2	0	#	b	66	39	—	
	Biarritz ...	29.59	53	SSE	3	b	29.38	+02	58	48	+5	S	8	c	4	b	?	45	—	
	Corunna ...	29.63	57	SSW	6	0	29.70	-09	54	51	+1	WSW	4	b	#	0	57	52	0.39	
	Lisbon ...	29.63	57	SSW	6	0	29.70	-09	54	51	+1	WSW	4	b	#	0	57	52	0.39	

For Explanation of Columns see last page.

For Explanation of Columns, see bottom of last page.

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

# WEATHER CHARTS

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

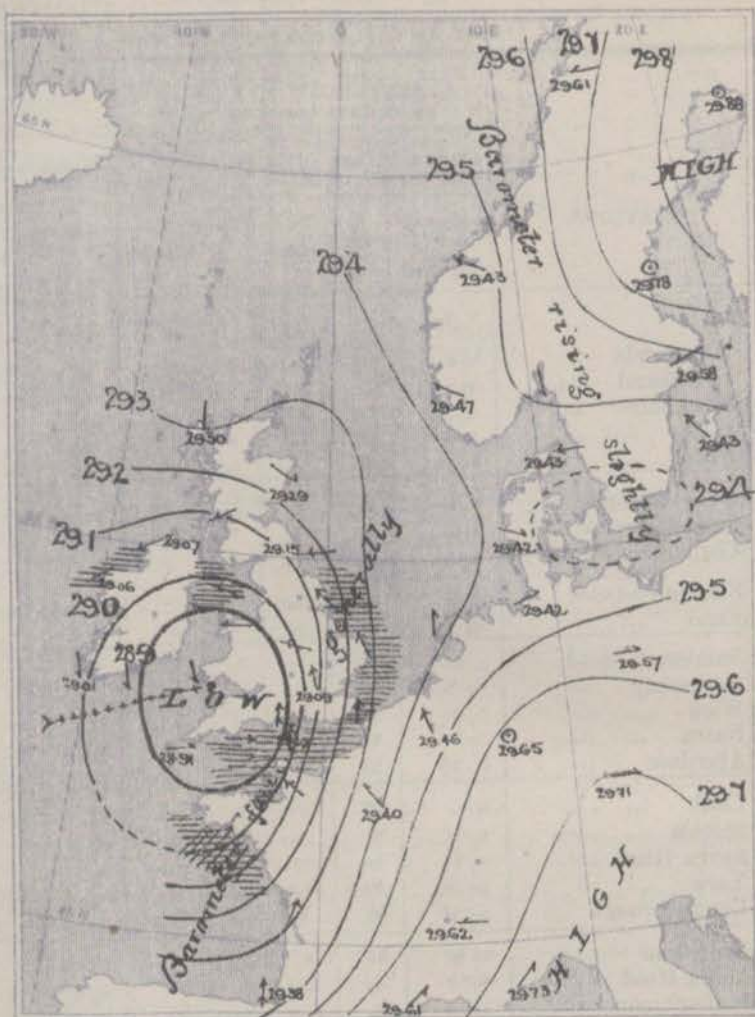
**SEA DISTURBANCE**—Where considerable, is shown thus:

— Rough, — High.

### MEAN HEIGHT OF THE BAROMETER

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

STATIONS.	MEAN READINGS.
Sumburgh Head	29.775
Stormway	29.773
Wick	29.874
Nairn	29.814
Aberdeen	29.818
Leith	29.870
Shields	29.906
Spurn Head	29.934
York	29.939
Loughborough	29.865
Ardrishan	29.878
Mullaghmore	29.851
Donaghadee	29.884
Holyhead	29.911
Liverpool	29.931
Parsonstown	29.900
Valencia	29.919
Roche's Point	29.916
Pembroke	29.937
Sally	29.939
Prawle Point	29.993
Jersey	30.007
Hurst Castle	29.980
Dover	29.985
LONDON	29.999
Oxford	29.985
Cambridge	29.979
Yarmouth	29.964



## 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.

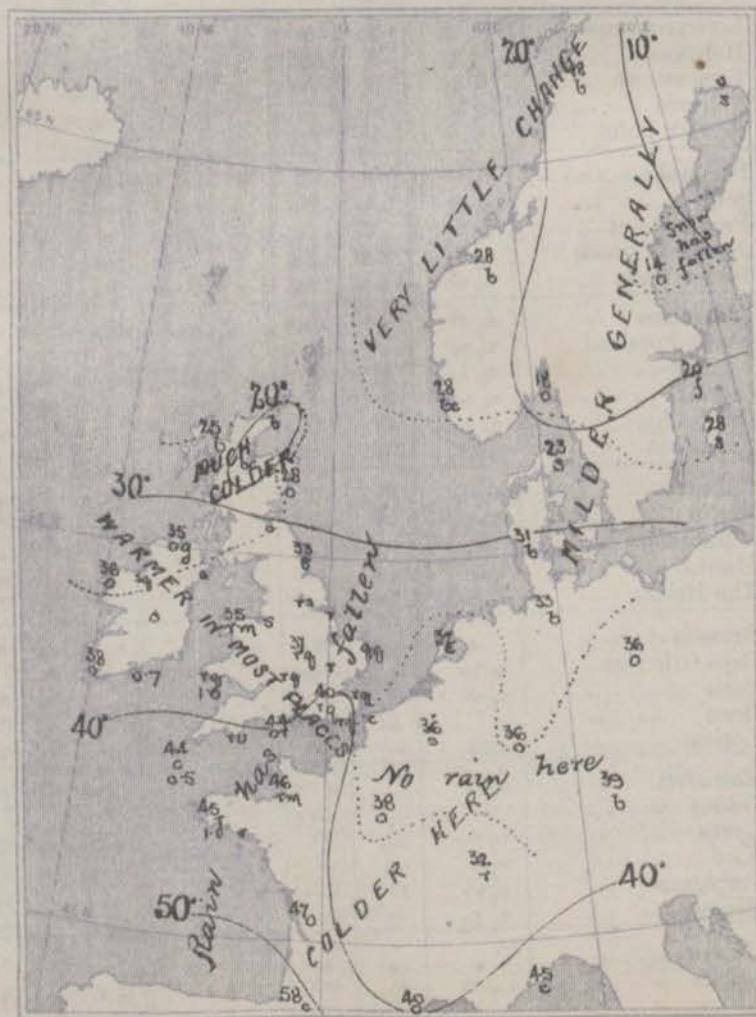
**RAINFALL**—A dotted line separates the districts in which rain has fallen from those where there has been none. Falls of 0.5 in. or more are quoted in figures.

### MEANS OF TEMPERATURE IN SHADE, AND RAINFALL

(For the month of February.)

STATIONS.	TEMPERATURE.				RAINFALL (inches)
	10 a.m.	5 p.m.	40°	50°	
Sumburgh Head	42.4	34.3	35.5	37.4	3.14
Stormway	43.6	34.6	36.1	38.1	3.86
Wick	43.1	33.2	35.1	36.7	2.01
Nairn	43.4	33.4	37.1	35.4	1.48
Aberdeen	43.2	33.8	37.3	35.7	2.34
Leith	45.7	34.3	38.6	37.1	1.46
Shields	43.8	35.1	38.6	37.3	1.59
Spurn Head	42.3	35.9	38.4	37.6	1.86
York	41.6	35.9	37.5	36.4	1.70
Loughborough	43.3	33.9	37.5	36.1	1.78
Ardrishan	41.6	36.5	38.4	38.2	3.04
Mullaghmore	40.6	38.6	42.9	40.3	3.09
Donaghadee	43.6	36.9	40.3	35.3	2.42
Holyhead	44.5	38.7	41.5	40.1	2.65
Liverpool	44.6	36.2	35.9	37.3	1.69
Parsonstown	46.9	35.4	39.4	38.1	2.20
Valencia	49.7	49.7	44.6	42.9	4.95
Roche's Point	48.4	39.6	43.1	41.6	4.43
Pembroke	46.8	39.1	42.1	40.9	2.83
Sally	48.0	42.8	44.0	44.4	2.71
Prawle Point	48.4	38.1	41.5	40.3	2.02
Jersey	46.9	39.3	42.3	41.0	2.55
Hurst Castle	45.7	36.7	40.3	39.3	2.25
Dover	44.3	36.1	39.2	38.1	1.95
LONDON	45.8	35.1	38.6	37.4	1.73
Oxford	45.6	34.6	37.9	36.8	1.92
Cambridge	45.6	33.8	37.3	36.2	1.16
Yarmouth	49.6	34.3	38.2	37.3	1.82

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, 29.8 ins: and more to 29.5 ins: (1) over the Gulf of Bothnia and Scandinavia, (2) over the Spanish Peninsula.  
 Lowest, 29.2 ins and less, in the Central part of a depression lying over Wales and the west of England.  
 Gradients very steep over England, the Channel, and north and east of France. Moderate and very variable elsewhere.  
 Barometer apparently beginning to rise in Ireland, but falling fast over England.

## TEMPERATURE

Highest, 55° at Biarritz, 54° at Lubeck, 45° to 49° in the west of France, 46° at Jersey.  
 Lowest, (1) 0° Zero F. at Haparanda, 14° at Helsingfors, 16° at Riga and Jaenar, (2) 16° at Narvik, 19° at Wick, 25° at Bournemouth, 28° at Aberdeen.  
 It has fallen very fast over Scotland, risen quickly over Ireland and England, but is changing fitfully in all districts.

## WIND

(1) Calm in Scotland, E. moderate to strong in the west of Norway.  
 (2) NW to W on our southernmost coasts, S and SE very strong and equally over the southeast and east of England, E moderate over the north of England, and E a gale over the north of Ireland.  
 (3) S gales prevail over the Bay of Biscay.

## WEATHER

Fine, bright and quiet over Norway and the north of Scotland. Very dull rough and unsettled elsewhere with snow over the northern parts of the Kingdom, and cold rain in the south. From 0.7 inch to 1.0 inch of rain has fallen at the mouth of St. George's Channel, and 0.5 inch at Sully.

## SEA

High at Lorient, and rough on many parts of our own coasts, slight in the far north.

## PROBABLE CHANGES IN SYSTEM NOW PREVALENT

# FORECASTS

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

## DISTRICTS.

## FORECASTS.

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

None issued

## DISTRICTS.

## FORECASTS.

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

## WARNINGS

None issued

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 S.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.

At 3.40 pm yesterday to districts 0 & 1. Hoist N. Cone and to districts 8 and 10. Hoist South Cone, and at 9.30 am today to districts 2 and 3. Hoist 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 ...	29.37	33	28	SSE	6	bc	3	Valencia ...	29.12	40	39	E	6	rm	4
Sumburgh Head								Scilly ...	29.24	47	44	S	5	c	3
Stornoway ...	29.34	30	30	N	4	s	4	Jersey ...	29.36	47	42	NE	3	bc	3
Aberdeen ...	29.30	35	32	NNE	5	cg	5	Hurst Castle ...	29.35	42	39	NNW	2	b	2
Shields ...	29.28	34	33	L	0	s	2	Dungeness ...	29.29	40	36	NNE	3	bc	2
Ardrossan ...	29.28	37	35	L	0	o	0	North Foreland ...	29.26	39	36	NNE	2	b	3
Malin Head ...	29.27	39	35	S	2	b	2	London ...	29.31	42	37	NW	1	bc	*
Mullaghmore ...	29.24	38	36	ENE	4	b	2	Yarmouth ...	29.23	37	35	NNW	3	c	3
Belmullet ...	29.24	39	34	E	3	b	*	Rochefort ...	29.42	48	46	NNW	4	bc	*
Holyhead ...	29.23	36	34	ESE	1	bc	1								

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

*Weather* fine in many parts of the United Kingdom, but dull at some of the English stations, with snow at Liverpool. Cloudy or overcast over the greater part of the Continent, with fog in Holland and North Germany, rain in Belgium, Italy, and the extreme south of France and snow in some parts of Denmark and Northern Russia. Fine and bright over Central Russia and also in the north of Scandinavia. Heavy rain setting in at night over the southwest of our Islands and the northwest of France, and spreading quickly eastwards and northwards; lightning seen at Newcastle. Large quantities of rain falling also in many parts of Austria and Italy.

*Temperatures* fallen considerably over central and southern Russia, and slightly in the west and north of our Islands, but risen elsewhere. Morning readings highest 61° at Algiers and Malta, 58° at Cagliari, and 56° at Nemours and Ouan; above 50° at most of the Mediterranean stations and also on the coast of Spain. Lowest -21° at Moscow, -18° at Haparanda, and -11° at Khio; below zero at several of the Russian stations, below 20° in Sweden, and below the freezing point in many parts of the United Kingdom. Daily maxima below 40° at most of our own northern stations, but exceeding 45° in the extreme south. Rising above 50° in the west and south of France, and above 60° in Spain and Italy. Sharp frost occurring in the north of Scotland at night.

*Wind* light or moderate from the E<sup>nd</sup> in Ireland, from the N<sup>nd</sup> in Scotland, and from the NE<sup>nd</sup> over the greater part of England. W<sup>nd</sup> over Spain and the southern parts of France, SW<sup>nd</sup> or S<sup>nd</sup> in Italy and Algeria; SE<sup>nd</sup> over Denmark, Germany, and the Baltic; E<sup>nd</sup> in the west of Norway. Light from the SW<sup>nd</sup> or S<sup>nd</sup> over the northern parts of Russia. Subsequently freshening from the S<sup>nd</sup> at the mouth of the Channel, and from the E<sup>nd</sup> in the south of Ireland.

*Barometer* highest 30.2 in. and upwards, in a large anticyclone lying over Central Russia; 29.9 in. and upwards in Algeria. Lowest 29.1 in. and less, in a shallow depression lying over Belgium and the northeast of France; 29.2 in. and less, in another disturbance lying to the southwestward of Ireland. Former disturbance subsequently moving in a north-northeasterly direction to the North Sea; latter system advancing eastwards, and occasioning decided fall of barometer on our southwest coasts.

## SUMMARY OF WEATHER OVER THE BRITISH ISLANDS AND THEIR NEIGHBOURHOOD FROM THE 19<sup>th</sup> TO THE 25<sup>th</sup> FEB./93.

The week now under consideration has been one of very low and unsteady pressure, of great variations in temperature, of very unsettled and rainy weather (especially in the south) and of gales in many places.

It commenced with one of the finest and warmest days (for winter) which we have experienced over England for a very long while, but in Ireland there were S<sup>th</sup> gales and rain, owing to a depression which moved northward outside our western coasts. On Monday the disturbed weather began to reach England, and during the remainder of the week three depressions reached our SW<sup>th</sup> and S<sup>th</sup> coasts as follows.

1. A deep system, reaching our southwestern coasts early on Tuesday (21<sup>st</sup>) and travelling eastwards to Holland on the following day. Barometer very low (28.7 in. and less). Disturbance filling up over Western Germany on Wednesday night and Thursday.
2. A less deep disturbance reaching Brittany on Friday (24<sup>th</sup>) and the northeast of France next morning. Partially passing away to the Baltic.
3. A deep system approaching our southwest coasts on Saturday evening. This latter system reached Wales during the night, but will be more fully referred to in the next summary.

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

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

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

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

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„ Weekly „ „ „ £1 10 0 „

# DAILY WEATHER REPORT

for 8 a.m. on Monday, 27<sup>th</sup> February, 1893

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

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STATIONS.		YESTERDAY EVENING. (See note at bottom of last page.)					THIS MORNING. (See note at bottom of last page.)										PAST 24 HOURS.			
		Barom.	Temp.	Wind.			Barometer.	Shade Temp.	Wind.								Shade Temp.		Amount of Rainfall.	
		Reading at 32° F. and Sea Level.	Dry Bulb.	Dirac.	Force (0 to 12).	Weather.	Reading at 32° F. and Sea Level.	Change since Yesterday Morn.	Dry Bulb.	Wet Bulb.	Change in dry since Yesterday.	Dirac.	Force (0 to 12).	Weather.	Sea (0 to 9).		Max.	Min.		
		Ina.	°				Ina.		°	°									Ina.	
SCANDINAVIA.	Haparanda ...	29.86	-3	Z	0	C	29.85	-0.03	7	7	+7	11.12	2	S	#	C	14	-4	0.04	
	Hernösand ...	29.84	14	NE	2	S	29.82	+0.04	14	14	0	17	2	O	#	S	18	10	0.04	
	Stockholm ...	29.63	23	NE	2	S	29.59	+0.01	26	26	+6	2	0	f	#	S	28	10	0.16	
	Wisby ...	29.51	30	SW	4	O	29.61	+0.18	26	25	-2	SW	4	f	#	O	80	16	0.12	
	Bodö ...	29.64	19	E	4	b	29.69	+0.08	18	16	0	E	4	b	2	b	19	14	-	
	Christiansund...	29.48	30	ESE	4	C	29.19	-0.24	34	33	+6	ESE	8	0	3	C	34	28	-	
	Skudesnaes ...	29.32	34	ESE	5	O	29.01	-0.46	35	31	+7	ESE	8	0	4	O	35	28	-	
	Christiania Fjord (Fæder)	29.60	22	N	4	O	29.34	-0.19	22	21	+4	NE	5	S	1	O	23	18	-	
	Skagen (The Scaw)	29.49	26	E	4	C	29.24	-0.19	32	32	+9	SSE	4	m	2	C	32	21	0.08	
	Fanö ...	29.21	34	SE	4	T	29.20	-0.22	35	33	+4	S	4	b	#	T	37	30	0.12	
BRITISH ISLANDS.	Sumburgh Head	29.14	32	N	3	C	29.03	-0.27	35	35	+10	WNW	4	S	5	C	36	22	0.06	
	Stornoway ...	29.05	34	E	3	O	28.75	-0.32	34	33	+15	N	6	S	3	SU	35	19	0.30	
	Wick ...	29.01	34	NE	4	S	28.91	-0.38	34	34	+16	NW	4	O	3	S	35	14	0.24	
	Nairn ...	28.94	34	E	8	qts														
	Aberdeen ...	28.73	35	ENE	4	T	28.97	-0.20	35	32	0	WSW	4	0	#	S.E.	36	31	0.44	
	Leith ...	28.60	36	SE	4	ST	28.95	-0.20	34	32	+1	W	4	0	4	43	38	1.03		
	Shields ...	28.77	40	SW	5	bv	29.14	+0.06	37	35	-1	WSW	5	C	5	6v	40	35	0.33	
	Spurn Head ...	28.71	37	S	3	om	29.11	+0.12	35	34	0	W	3	b	#	S.Om	39	33	0.46	
	York ...	28.85	41	SW	4	C	29.25	+0.24	35	33	-2	WSW	3	b	#	C	43	34	0.14	
	Loughborough																			
GERMANY & HOLLAND.	Ardrossan ...	28.75	33	ENE	5	S	29.06	-0.05	38	35	+6	WNW	4	b	3	S	38	31	0.21	
	Malin Head ...	28.94	37	N	7	og	29.15	+0.08	36	34	+1	NW	3	osp	3	g.s.bc	38	33	-	
	Mullaghmore ...	29.00	39	WNW	6	bcq	29.22	+0.20	35	34	0	WNW	2	b	1	g.b.cq	39	33	-	
	Belmullet ...	29.10	39	WNW	3	esp	29.26	+0.20	37	33	+1	NE	2	b	#	esp	39	33	0.02	
	Donaghadee ...	28.73	36	NE	8	resp	29.18	+0.16	32	32	-2	NW	5	b	4	resp	36	31	0.55	
	Liverpool (Bidston)	28.75	37	WSW	6	O	29.23	+0.86	36	33	0	WSW	5	b	4	O	39	34	0.50	
	Holyhead ...	28.77	38	WNW	5	og	29.22	+0.34	36	35	+1	WNW	4	b	4	og	39	33	0.30	
	Parsonstown ...	29.02	34	NW	1	O	29.26	+0.35	26	25	-7	Z	0	bc	#	O	34	24	0.02	
	Valencia ...	29.14	41	WNW	5	cm	29.23	+0.22	37	34	-1	ENE	4	0	4	cm	42	30	-	
	Roche's Point	29.04	39	WNW	5	C	29.24	+0.29	35	38	0	ENE	3	C	3	C	40	31	-	
FRANCE AND BELGIUM.	Pembroke (St. Ann's Hd.)	28.94	39	W	6	O	29.25	+0.42	36	36	0	NE	3	cg.m.	3	0	42	35	0.02	
	Scilly ...	29.11	43	W	5	chg	29.13	+0.22	42	40	-2	SE	5	T	4	hg.l	47	38	0.10	
	Prawle Point ...	29.08	40	W	6	C	29.25	+0.39	40	39	0	SE	2	gr	1	q.l	45	38	0.08	
	Jersey (St. Aubin's)	29.16	48	SW	5	C	29.36	+0.44	44	43	-2	SE	4	m	3	q.h.r.l	50	42	0.18	
	Hurst Castle ...	29.03	43	WSW	7	bc	29.35	+0.39	41	40	-3	WSW	2	dmr	4	q.p.bc	46	40	0.38	
	Dungeness ...	29.24	45	SW	6	Cq	29.37	+0.18	42	40	+2	W	4	C	4	Cq	47	39	0.18	
	North Foreland	29.03	44	SW	5	O	29.35	+0.17	39	36	-1	WSW	1	bm	3	Cq.p	47	36	0.09	
	London ...	28.95	43	WSW	4	bcq	29.37	+0.28	37	35	-3	S	2	0	#	q.r.q.b	47	35	0.33	
	Oxford ...	28.99	39	WSW	4	O	29.33	+0.37	35	33	-5	SW	1	C	#	r.q.o	45	34	0.26	
	Cambridge ...	28.98	38	S	2	b	29.32	+0.23	36	34	-2	SW	1	b	#	b	45	33	0.25	
PORTUGAL.	Yarmouth ...	28.91	44	SW	6	C	29.27	+0.01	37	35	-2	SW	5	b	4	q	44	34	0.36	
	Cuxhaven ...	29.39	39	SE	3	O	29.34	-0.08	40	39	+7	SW	5	b	#	O	40	33	0.08	
	Berlin ...	29.56	38	SSE	3	b	29.58	+0.01	42	40	+6	SSW	1	bc	#	b	43	36	-	
	Wiesbaden ...						29.65	0.00	43	41	+7	SW	4	0	#	#	48	32	0.08	
	Munich ...	29.58	38	E	2	b	29.81	+0.10	41	38	+2	W	4	0	#	b	48	34	-	
	The Helder ...	29.14	41	S	5	b	29.30	?	40	37	+8	SW	7	C	4	b	43	32	0.12	
	Brussels (p.m.)						29.50	+0.04	41	39	+5	SW	6	0	#	T	48	36	0.12	
	Cape Gris Nez	29.10	44	SW	6	bc	29.29	+0.07	43	43	+7	WSW	5	m	5	bc	46	36	0.20	
	Paris ...	29.34	47	SSW	5	O	29.60	+0.20	42	40	+4	SSW	3	0	#	O	46	38	0.04	
	Brest ...		46	NW	5	C	?	?	50	48	+5	SW	6	0	?	C	48	41	0.20	
PORTUGAL.	Lorient ...	29.30	46	W	5	bc	29.35	+0.38	49	48	0	SSW	7	0	5	bc	52	45	0.12	
	Rochefort ...	29.49	49	W	6	C	29.63	+0.33	50	47	+3	SW	6	0	#	klc	52	45	0.28	
	Belfort ...		42	W	3	T	?	?	41	39	+9	W	4	C	#	T	46	32	0.16	
	Lyons ...	29.53	53	S	5	O	29.87	+0.25	40	37	+3	S	2	bc	#	O	56	37	0.20	
	Nice ...	29.80	49	E	1	O	29.82	+0.09	45	41	0	NE	1	b	3	O	58	43	0.39	
	Perpignan ...	29.58	61	NW	3	O	29.88	+0.27	46	43	+6	ENE	2	0	#	O	70	40	-	
	Biarritz ...	29.63	57	WSW	5	C	29.70	+0.32	50	42	-8	S	4	bc	4	C	59	41	-	
	Corunna ...																			
	Lisbon ...	29.93	54	WSW	2	O	29.91	+0.21	55	51	+1	SSW	5	bc	#	O	57	52	-	

For Explanation of Columns, see bottom of last page

For Explanation of Columns, see bottom of last page.

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

# WEATHER CHARTS

for 8 a.m. on Monday, 27<sup>th</sup> February, 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, it is shown thus—

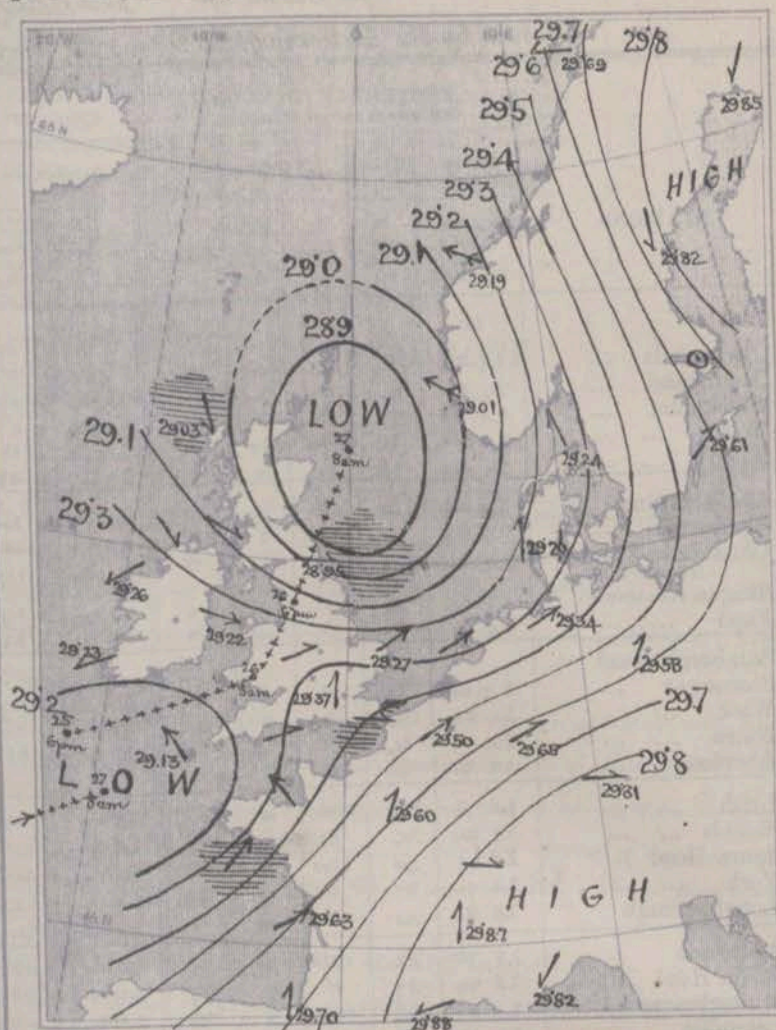
— Rough. — High.

## MEAN HEIGHT OF THE BAROMETER

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

During the 20 Years: 1871—1890.

STATIONS.	MEAN READINGS.
Sumburgh Head	29.773
Stornoway	29.773
Wick	29.834
Nairn	29.814
Aberdeen	29.816
Leith	29.870
Shields	29.906
Spurn Head	29.933
York	29.933
Loughborough	29.873
Ardrossan	29.854
Mullaghmore	29.884
Donaghadee	29.914
Holyhead	29.934
Liverpool	29.906
Parsonstown	29.919
Valencia	29.916
Roche's Point	29.937
Pembroke	29.959
Sally	29.923
Prawle Point	29.907
Jersey	29.989
Hurst Castle	29.985
Dover	29.980
LONDON	29.984
Oxford	29.984
Cambridge	29.979
Yarmouth	29.964



## 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.

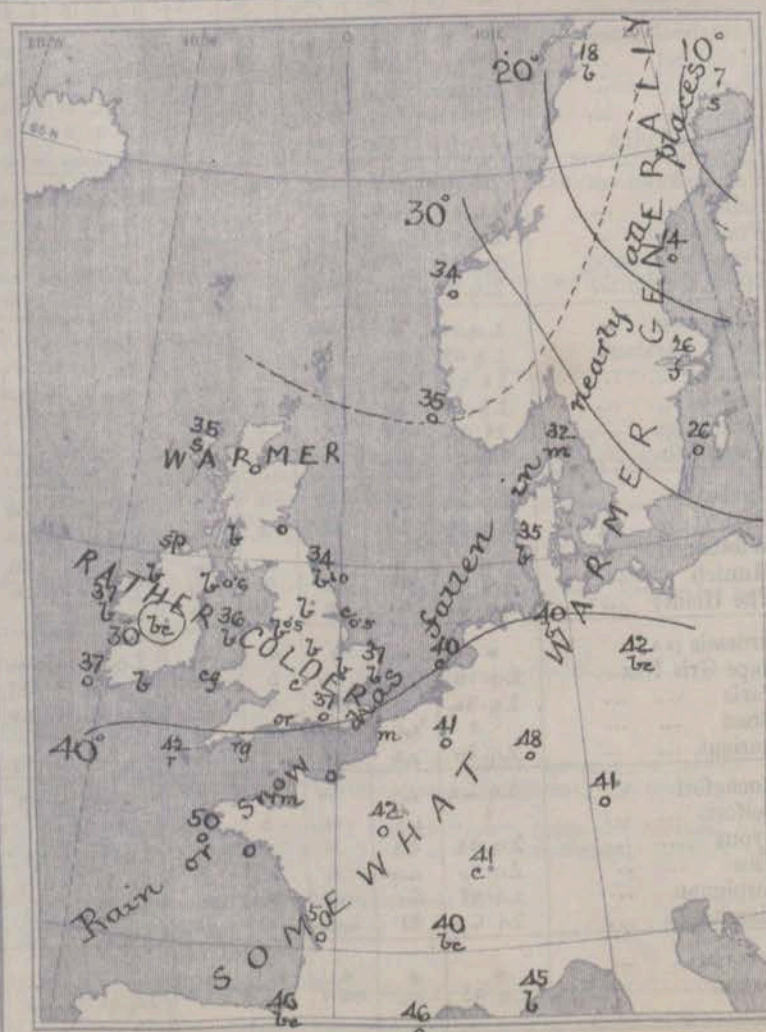
**RAINFALL**—A dotted line separates the districts in which rain has fallen from those where there has been none. Falls of 0.5 in. or more are quoted in figures.

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

(For the month of February)

STATIONS.	TEMPERATURE.				RAINFALL. (Inches)
	Temp. Max.	Temp. Min.	Temp. Day.	Temp. Night.	
Sumburgh Head	42.4	34.6	38.6	37.4	3.19
Stornoway	43.6	34.0	39.1	38.1	2.86
Wick	43.1	33.2	38.1	36.7	2.01
Nairn	43.1	33.4	37.1	35.4	1.48
Aberdeen	43.2	33.8	37.3	35.7	2.35
Leith	45.7	34.3	38.6	37.1	1.45
Shields	45.8	33.1	38.6	37.3	1.50
Spurn Head	42.3	35.9	38.1	37.0	1.30
York	44.6	35.9	37.5	36.1	1.70
Loughborough	45.1	33.9	37.5	36.1	1.78
Ardrossan	44.6	35.3	39.4	38.2	3.04
Mullaghmore	46.0	38.6	42.0	40.3	3.00
Donaghadee	45.5	35.9	40.3	39.0	2.12
Holyhead	45.5	38.7	41.5	40.1	2.60
Liverpool	44.6	36.2	38.9	37.3	1.69
Parsonstown	46.9	35.0	39.4	38.1	2.20
Valencia	49.7	30.7	44.0	42.9	4.95
Roche's Point	48.1	30.6	43.1	41.6	4.45
Pembroke	45.5	39.4	42.1	40.9	2.82
Sally	48.0	42.8	46.0	44.4	2.71
Prawle Point	48.8	38.1	41.5	40.5	2.02
Jersey	46.9	39.3	42.3	41.0	2.50
Hurst Castle	45.7	36.7	40.3	39.3	2.26
Dover	44.1	36.1	39.2	38.1	1.96
LONDON	45.8	39.1	40.6	37.4	1.73
Oxford	45.0	34.9	37.9	36.8	1.82
Cambridge	45.4	32.5	37.4	36.2	1.46
Yarmouth	42.8	34.5	38.2	37.3	1.82

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, 29.9 ins: and more to 29.6 ins: over the Spanish Peninsula, the southeastern half of France, and apparently over East Prussia, Austria and south Germany.

Lowest, 28.9 ins: and apparently much less, in a depression lying off the northeast of Scotland; 28.13 ins: at Lally.

[The reports from the Shetlands, Caithness, and Aberdeen are not in].

Gradients steep over the north of England, the North Sea and Bay of Biscay, very variable elsewhere - slight over Ireland and Wales.

Barometer rising in the north and east, but has begun to fall again in the southwest.

## TEMPERATURE

Highest, 55° at Lisbon, about 50° in the west of France, 40° and more over France generally and over our own southern coasts.

Lowest, 32° at the Shew, 34° to 35° on our northeastern coasts.

It has risen in Scotland, fallen somewhat over England, but is changing very fitfully in all parts of the Kingdom.

## WIND

(1) NW<sup>1</sup>, moderate, in Scotland, W<sup>1</sup> in the north of England, S<sup>1</sup> to SW<sup>1</sup> on the eastern shores of the North Sea (gale at the Helder).

(2) E<sup>1</sup>, light in the south of Ireland; SE<sup>1</sup> freshening over the western parts of the Channel; SW<sup>1</sup> strong to a gale over the Bay of Biscay.

(3) S<sup>1</sup> and SW<sup>1</sup>, moderate, over Central France.

Gales were experienced yesterday - from between SE and SW at our southern stations, and from E. in the north.

## WEATHER

Very unsettled everywhere, and after clearing temporarily in the south and southwest is again becoming very rainy in those regions.

Over Spain it is fine and bright.

A good deal of rain fell in the south yesterday, and much snow in the north - followed by rain. Hail fell in several places (even in the north of London) and thunder and lightning occurred at our southwestern stations.

## SEA

Rather rough at Plymouth, Shields, C. J. W. M., and Lorient, moderate or slight in most other places.

## PROBABLE CHANGES IN SYSTEM NOW PREVALENT

The depression in the northeast is passing off, but a new one is advancing to our southwestern districts from the Atlantic.

## FORECASTS

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

### DISTRICTS.

### FORECASTS.

0	SCOTLAND NORTH	NW <sup>2</sup> and N <sup>2</sup> winds; very cold, snow showers at times.
1	SCOTLAND EAST	
2	ENGLAND N.E.	Wind varying both in force and direction, very unsettled, rain or snow at times.
3	ENGLAND EAST	
4	MIDLAND COUNTIES	
5	ENGLAND SOUTH	SE <sup>2</sup> to S <sup>2</sup> and to W <sup>2</sup> winds, moderate to a gale; with a great deal of rain.

### DISTRICTS.

### FORECASTS.

6	SCOTLAND WEST	Same as 7 <sup>0</sup> 0 and 1.
7	ENGLAND N.W.	NE <sup>2</sup> and N <sup>2</sup> winds, probably moderate, cold, some snow.
8	ENGLAND S.W.	Same as 7 <sup>0</sup> 5
9	IRELAND NORTH	Same as 7 <sup>0</sup> 7
10	IRELAND SOUTH	

### WARNINGS

At 9.55 am to districts 8, 5, and part of 3 "HOIST SOUTH CONE".

The signals are now up except in districts 6, 7 and 9.

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

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

# YESTERDAY'S 2 P.M. REPORTS.

	BAR.	THER.		WIND. Dirac.	P.	WEA.	SEA.		BAR.	THER.		WIND. Dirac.	P.	WEA.	SEA.
		Dry.	Wet.							Dry.	Wet.				
Skudeenæs ...	29.48	32	28	SSE	2	bc	2	Valencia ...							
Sumburgh Head								Scilly ...							
Stornoway ...	29.21	36	36	N	3	c	3	Jersey ...	29.12	43	41	WSEW	5	c	5
Aberdeen ...								Hurst Castle							
Shields ...								Dungeness ...	28.99	46	44	WSEW	7	c	6
Ardrossan ...								North Foreland ...	28.94	43	41	SSW	4	bc	6
Malin Head ...	28.98	35	34	NNE	7	0	4	London ...							
Mullaghmore ...								Yarmouth ...							
Belmullet ...	29.05	38	35	NNE	5	0	*	Rochefort ...	29.41	50	49	WSE	6	0	*
Holyhead ...	28.74	38	38	WNW	4	0	4								

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

*Weather* fine in the N. of Scotland but dull in all other parts of the United Kingdom, with snow over the northern parts of Ireland and England, and with heavy rain in all the more southern districts, as well as in the north of France. Dull at many of the Continental stations with fog in N. Germany, rain over northern Austria and central Spain and snow at St. Petersburg and Wisby. Fine and bright in the west of Norway, the south of Denmark and central Russia as well as over the greater part of Italy. Heavy snow or rain falling later over all the more N. parts of the United Kingdom, but weather improving in south.

*Temperature* fallen in the N. of Scotland, and also over Italy and central France, risen elsewhere - quickly in Russia. Morning readings, highest 59° at Algiers, 58° at Biarritz and Malta, and 57° at Genoa; above 50° at most of the Mediterranean stations. Lowest -17° at Archangel, -16° at Moscow, and 0° at Haparanda; below 20° in most parts of Sweden and Russia and also in the N. of Scotland; very little above the freezing point over the N. part of England and Ireland. Daily maxima below 40° at most of our own N. stations, but exceeding 45° in the south. Rising to 55° or more in the west and south of France, and reaching 70° at Perpignan.

*Wind* showing a distinct cyclonic circulation over England, Ireland and France and strong in most places, with S. gales in the Channel and Bay of Biscay, and with E. gales in the north of Ireland. Light and variable in the N. of Scotland. Light from the S. or S.W. in Italy and Algeria, from the W. in Germany, from the S.E. in Russia and from the E. in Scandinavia. E. gales setting in later over Scotland but wind veering to the W. on our south coasts and subsiding gradually.

*Barometer* highest 30.3 ins. and upwards in a large anticyclone lying over central Russia, 29.9 ins. and upwards over Algeria and the south of Italy. Lowest 28.9 ins. and less in a rather deep depression lying over Wales and the south-west of England. 29.4 ins. and less in a shallower disturbance lying over Zealand and the south of Sweden. Depression in west subsequently travelling in a NNE. direction and growing deeper, barometer falling rapidly over the northern part of the United Kingdom.

*The Summary will appear in Sunday's Report.*

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

**WEATHER.**—Beaufort Scale is b. blue sky; c. detached clouds; d. drizzling rain; f. fog; g. dark, gloomy; h. hail; l. lightning; m. misty (hazy); o. overcast; p. passing showers; q. squally; r. rain; s. snow; t. thunder; u. ugly, threatening; v. visibility, unusual transparency; w. dew.  
\* AN ASTERISK is inserted in all places for which information is not usually received.

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

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„ Weekly „ „ „ £1 10 0 „

# DAILY WEATHER REPORT

for 8 a.m. on *Tuesday 28<sup>th</sup> February*. 1893

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

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STATIONS.	YESTERDAY EVENING. (See note at bottom of last page.)					THIS MORNING. (See note at bottom of last page.)										PAST 24 HOURS.		
	Barom.	Temp.	Wind.		Weather.	Barometer.	SHADE TEMP.			Wind.		Weather.	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).			Max.	Min.		
	Ina.	°				Ina.	°	°	°								Ina.	
SCANDINAVIA.	Haparanda ...	29.86	2	0	c	29.59	-26	21	21	+14	SW	4	0	0	2	10	0.16	
	Hernösand ...	29.58	2	0	c	29.50	-22	21	21	+7	SW	0	0	0	2	10	0.12	
	Stockholm ...	29.58	2	0	c	29.61	+02	24	23	+8	SW	2	0	0	2	10	0.08	
	Wisby ...	29.65	24	6	b	29.67	+06	26	25	+10	SW	4	0	0	2	10	0.04	
	Bodö ...	29.54	24	6	0	29.34	-28	20	19	+2	SW	6	0	0	2	16	—	
SCANDINAVIA.	Christiansund...	29.05	25	4	bc	29.23	+04	24	22	0	SW	2	0	0	2	24	—	
	Skudesnaes ...	29.01	26	4	0	29.3	+26	26	25	+1	SW	5	0	0	2	24	—	
	Christiania Fjord (Færder)	29.26	28	4	0	29.41	+07	22	22	+10	SW	4	0	0	2	24	—	
	Skagen (The Seaw)	29.41	22	4	bc	29.50	+26	21	21	-1	SW	2	m	1	2	24	—	
	Fanö ...	29.47	25	4	0	29.56	+26	24	23	-1	SW	1	0	0	2	24	—	
SCANDINAVIA.	Sumburgh Head	29.20	27	5	c	29.44	+44	25	24	0	W	2	0	4	2	24	0.04	
	Stornoway ...	29.20	27	5	c	29.44	+44	25	24	0	W	2	0	4	2	24	0.04	
	Wick ...	29.21	25	2	c	29.44	+25	24	23	0	W	0	e	1	2	24	—	
	Nairn ...	29.20	24	4	bc	29.57	+27	22	22	-2	SW	2	bc	0	2	24	0.06	
	Aberdeen ...	29.20	24	4	bc	29.57	+27	22	22	-2	SW	2	bc	0	2	24	0.06	
SCANDINAVIA.	Leith ...	29.27	22	2	b	29.58	+61	23	22	-2	W	1	m	0	2	24	—	
	Shields ...	29.30	26	2	a	29.66	+71	25	24	-5	SW	2	m	2	2	24	—	
	Spurn Head ...	29.32	27	2	0	29.71	+25	24	22	-2	SW	2	b	2	2	24	—	
	York ...	29.33	27	1	b	29.74	+25	24	24	-7	W	1	b	0	2	24	—	
	Loughborough	29.35	27	1	0	29.75	+25	24	24	-7	SW	1	bc	0	2	24	—	
BRITISH ISLANDS.	Ardrossan ...	29.33	27	2	c	29.61	+25	24	24	+2	SW	4	0	0	2	24	—	
	Malin Head ...	29.35	27	2	bc, c	29.51	+26	24	26	+2	SW	6	0	0	2	24	0.04	
	Mullaghmore ...	29.35	24	3	b	29.63	+41	24	25	+2	SW	5	c	0	2	24	—	
	Belmullet ...	29.42	40	2	b	29.63	+21	24	25	+2	SW	2	c	0	2	24	0.07	
	Donaghadee ...	29.37	26	4	b	29.69	+21	21	20	-1	W	2	c	2	2	24	0.01	
BRITISH ISLANDS.	Liverpool (Bidston)	29.37	28	1	b	29.76	+25	23	22	-1	SW	1	b	2	2	24	—	
	Holyhead ...	29.35	27	2	bc	29.75	+25	23	26	+2	SW	1	b	2	2	24	—	
	Parsonstown ...	29.40	28	0	b	29.75	+25	26	28	0	W	0	b	0	2	24	—	
	Valencia ...	29.42	27	3	bc	29.77	+25	26	26	+1	SW	2	bc	3	2	24	—	
	Roche's Point	29.37	28	2	b	29.77	+25	21	20	-4	W	1	b	3	2	24	—	
BRITISH ISLANDS.	Pembroke (St. Ann's Hd.)	29.29	27	4	c	29.50	+25	24	24	+2	SW	2	b	2	2	24	—	
	Scilly ...	29.21	27	4	c	29.70	+65	22	21	0	SW	2	c	4	2	24	0.20	
	Prawle Point ...	29.24	45	4	c	29.50	+25	24	23	-6	SW	1	bc	0	2	24	0.07	
	Jersey (St. Aubin's)	29.34	46	4	om	29.5	+21	45	44	+1	SW	2	om	3	2	24	0.56	
	Hurst Castle ...	29.27	46	6	c	29.76	+41	26	25	-5	SW	4	m	4	2	24	0.27	
BRITISH ISLANDS.	Dungeness ...	29.32	45	6	0	29.67	+20	24	23	-4	W	2	c	2	2	24	0.26	
	North Foreland	29.30	47	5	0, 0	29.65	+24	40	39	+1	W	2	0, 0	4	2	24	0.38	
	London ...	29.33	38	1	0, 0	29.75	+28	35	33	-2	SW	2	0, 0	0	2	24	0.33	
	Oxford ...	29.36	36	1	0	29.78	+42	32	31	-3	W	1	bc	0	2	24	0.33	
	Cambridge ...	29.35	37	1	0	29.75	+43	32	32	-4	SW	1	b	0	2	24	0.33	
BRITISH ISLANDS.	Yarmouth ...	29.34	38	1	ad	29.66	+22	37	36	0	W	1	b	4	2	24	0.16	
	Cuxhaven ...	29.57	42	2	0	29.57	+22	42	42	+2	SW	2	T	0	2	24	0.21	
	Berlin ...	29.74	42	2	b	29.68	+10	38	36	-4	SE	2	bc	0	2	24	—	
	Wiesbaden ...	29.74	42	2	b	29.67	+02	43	41	0	SW	2	0	0	2	24	0.04	
	Munich ...	29.77	40	4	b	29.74	-07	38	34	-6	SE	5	c	0	2	24	—	
BRITISH ISLANDS.	The Helder ...	29.43	38	1	T	29.60	+20	36	35	-4	SW	5	T	3	2	24	0.39	
	Brussels (8 a.m.)	29.34	44	5	T	29.61	+11	42	42	+1	W	2	T	0	2	24	0.20	
	Cape Gris Nez	29.50	47	2	0	29.56	+27	41	40	-2	SW	5	0	5	2	24	0.63	
	Paris ...	29.50	47	2	0	29.53	+03	44	44	+2	SW	1	0	0	2	24	0.16	
	Brest ...	29.50	47	2	0	29.53	+03	44	44	+2	SW	1	0	0	2	24	0.16	
FRANCE AND BELGIUM.	Lorient ...	29.34	46	5	T	29.69	+24	47	45	-2	W	2	bc	5	2	24	0.43	
	Rochefort ...	29.48	45	6	T	29.77	+14	47	47	-2	SW	2	c	0	2	24	0.16	
	Belfort ...	29.48	46	3	c	29.77	+14	47	47	-2	SW	2	c	0	2	24	0.16	
	Lyons ...	29.63	53	5	0	29.78	-09	44	44	+4	W	1	0	0	2	24	0.24	
	Nice ...	29.53	49	2	0	29.80	-02	45	43	+4	W	4	T	4	2	24	0.67	
FRANCE AND BELGIUM.	Perpignan ...	29.63	53	4	0	29.84	-04	51	43	+5	SW	2	0	0	2	24	0.67	
	Biarritz ...	29.52	56	2	0	29.88	+15	52	53	+4	SW	2	0	0	2	24	0.67	
	Corunna ...	29.05	27	4	c	29.10	+27	35	35	0	SW	2	f	0	2	24	0.08	
	Lisbon ...	29.05	27	4	c	29.10	+27	35	35	0	SW	2	f	0	2	24	0.08	

For Explanation of Columns, see bottom of last page.

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

# WEATHER CHARTS

for 8 a.m. on Tuesday, 28<sup>th</sup> February, 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 4 to 5.

— dead calm

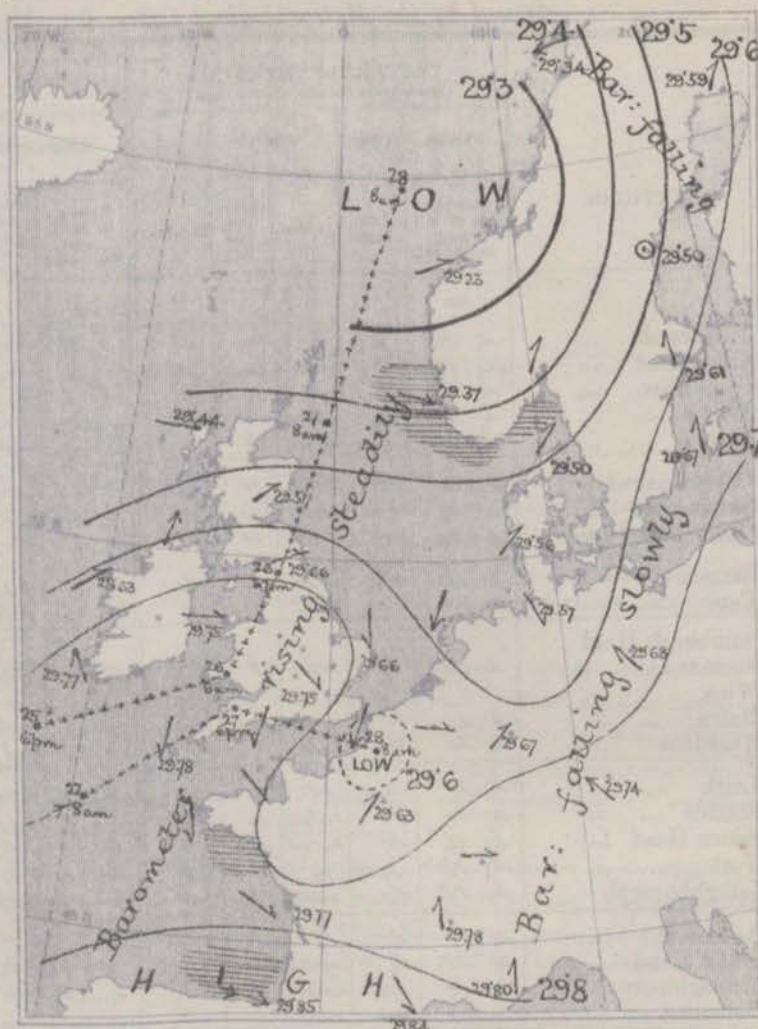
**SEA DISTURBANCE**—Where considerable, is shown thus:

— Rough. — High.

## MEAN HEIGHT OF THE BAROMETER

at 8.0 a.m. for the month of February.  
During the 20 Years, 1871–1900.

STATIONS.	MEAN READINGS.
Scunthorpe Head	29.775
Stornoway	29.775
Wick	29.804
Nairn	29.811
Aberdeen	29.848
Leith	29.870
Shields	29.906
Spurn Head	29.934
York	29.939
Loughborough	29.963
Ardrossan	29.973
Mullaghmore	29.981
Donaghadee	29.984
Holyhead	29.914
Liverpool	29.934
Parsonstown	29.966
Valencia	29.919
Roche's Point	29.916
Pembroke	29.937
Sally	29.959
Prawle Point	29.994
Jersey	30.007
Hurst Castle	29.986
Dover	29.983
LONDON	29.989
Oxford	29.985
Cambridge	29.979
Yarmouth	29.964



## 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 February.)

STATIONS.	TEMPERATURE.				RAINFALL (Inches)
	Max.	Min.	Day.	Night.	
Scunthorpe Head	42.4	34.6	38.6	37.4	3.19
Stornoway	43.6	34.6	39.1	33.1	3.89
Wick	43.1	33.2	39.1	36.7	2.04
Nairn	43.4	33.1	37.1	35.4	1.48
Aberdeen	43.2	33.8	37.3	36.7	2.35
Leith	45.7	34.3	38.6	37.1	1.46
Shields	43.8	35.1	38.6	37.6	1.30
Spurn Head	42.3	35.9	38.4	37.6	1.36
York	44.6	35.9	37.6	36.4	1.70
Loughborough	45.3	33.2	37.6	36.4	1.78
Ardrossan	44.6	36.3	39.4	38.2	2.04
Mullaghmore	46.6	38.6	42.9	40.3	1.09
Donaghadee	45.6	38.9	40.3	39.3	2.42
Holyhead	45.5	38.7	41.5	40.1	2.69
Liverpool	44.6	36.2	38.9	37.3	1.09
Parsonstown	46.9	38.6	39.4	38.1	2.20
Valencia	49.7	40.7	44.6	42.9	1.96
Roche's Point	48.1	39.6	43.1	41.6	4.43
Pembroke	45.5	39.4	42.1	40.9	2.84
Sally	48.9	42.6	46.0	44.4	2.71
Prawle Point	46.8	38.1	41.5	40.5	2.02
Jersey	48.9	39.5	42.3	41.0	2.55
Hurst Castle	45.7	40.7	40.5	39.3	2.23
Dover	44.1	39.1	39.2	38.1	1.96
LONDON	45.5	38.1	38.6	37.4	1.78
Oxford	45.9	34.6	37.9	36.8	1.92
Cambridge	45.5	32.8	37.3	36.3	1.16
Yarmouth	43.6	34.5	38.2	37.3	1.82

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 the Spanish Peninsula.

Lowest, 29.3 in. and less, in a depression lying off the west of Norway.

Gradients slight. Barometer rising in most parts of Western Europe, but falling in Germany and also in the north of Scandinavia.

## TEMPERATURE

Highest, 55° at Lisbon, 54° at Biarritz, 51° at Perpignan, 49° at Nice, and 47° at Orient and Rochefort.

Lowest, (1) 20° at White, 21° at Haparanda and Hornsund, and 31° at Skagen; (2) 26° at Lonsdale, and 28° at York and Loughborough.

Frost occurred last night in many parts of the United Kingdom, the lowest reading of all being 25° at York.

## WIND

Light or moderate from the N<sup>W</sup> over England, and from the NW<sup>W</sup> in the west and south of France, but blowing a gale at Biarritz.

Light from the S<sup>W</sup> over Central France, and from the SE<sup>W</sup> in Germany.

S<sup>W</sup> or SW<sup>W</sup> in the east and north of Ireland; W<sup>W</sup> in Iceland; SW<sup>W</sup> over the greater part of Scandinavia and Denmark, but E<sup>W</sup> at Oslo.

Fine over the greater part of the United Kingdom, but cloudy or overcast on our extreme northwest coasts.

Dull at most of the Continental stations, with rain over North Germany and the Netherlands, as well as at Belfast and <sup>now at Haparanda.</sup> Nice, and with

Heavy rain fell yesterday in many parts of France and the south of England, the largest amount being 0.7 in. at Nice and 0.6 in. at Jersey, the North Foreland, Cape Gris Nez and the Helder. Lightning was seen at Foul Point during the night.

## WEATHER

## SEA

Rather rough off the south of Norway, as well as at Cape Gris Nez and Orient, but moderate to smooth on our own coasts.

## PROBABLE CHANGES IN SYSTEM NOW PREVALENT

The backing of the wind to the S<sup>W</sup> in the west of Ireland seems to indicate the approach of another depression, and

unsettled weather is likely to set in again shortly over our western and northern districts.

## FORECASTS

For the 24 hours ending at NOON on 1<sup>st</sup> March,

1893.

### DISTRICTS.

### FORECASTS.

- |   |                  |  |
|---|------------------|--|
| 0 | SCOTLAND NORTH   | SW <sup>W</sup> to S <sup>W</sup> winds, freshening; fine to unsettled and some rain.  |
| 1 | SCOTLAND EAST    |  |
| 2 | ENGLAND N.E.     | W <sup>W</sup> to SW <sup>W</sup> winds, light or moderate; fair generally.            |
| 3 | ENGLAND EAST     | Same as No 5   |
| 4 | MIDLAND COUNTIES |  |
| 5 | ENGLAND SOUTH    | N <sup>W</sup> winds, backing later to W. or SW.; fine generally, but with local fogs. |

### DISTRICTS.

### FORECASTS.

- |          |               |  |
|----------|---------------|--|
| 6        | SCOTLAND WEST | S <sup>W</sup> and SW <sup>W</sup> winds, freshening; dull, some rain.                 |
| 7        | ENGLAND N.W.  |  |
| 8        | ENGLAND S.W.  | Wind backing to the SW <sup>W</sup> or S <sup>W</sup> ; fine to cloudy and some rain.  |
| 9        | IRELAND NORTH | S <sup>W</sup> and SW <sup>W</sup> winds, increasing in force; fair to dull and rainy. |
| 10       | IRELAND SOUTH |  |
| WARNINGS |               | At 10.20 am to districts 5, 8, and part of 3 'Lower Cone'.                             |

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

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

# YESTERDAY'S 2 P.M. REPORTS.

	BAR.	THER.		WIND. Dirac.	P.	WEA.	SEA.		BAR.		THER.		WIND. Dirac.	P.	WEA.	SEA.
		Dry.	Wet.								Dry.	Wet.				
Skudeanaes ...	29.72	36	31	E	7	0	5	Valencia ...	29.30	42	38	E	4	bc	4	
Sumburgh Head ...	29.14	40	33	N	5	bc	5	Scilly ...	29.14	45	47	W	4	cp	4	
Stornoway ...	29.03	35	33	W	7	0	6	Jersey ...	29.33	47	46	S	4	0	4	
Aberdeen ...	29.5	40	37	W	4	C	3	Hurst Castle ...	29.25	47	46	W	5	C	4	
Shields ...	29.21	40	37	W	4	C	3	Dungeness ...	29.27	47	46	W	7	OT	6	
Ardrossan ...	29.26	40	37	W	4	C	3	North Foreland ...	29.22	44	43	W	4	T	4	
Malin Head ...	29.30	40	37	W	1	bc	1	London ...	29.33	41	40	W	5	fg	4	
Mullaghmore ...	29.34	44	38	N	3	C	2	Yarmouth ...	29.33	41	38	W	5	0	4	
Belmullet ...	29.29	42	37	W	1	bc	2	Rocheport ...	29.33	37	46	W	5	0	4	
Holyhead ...	29.29	42	37	W	1	bc	2									

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

Weather dull and rainy in the south of England, and unsettled with snow in the north and northeast of Scotland, but fine and bright in other parts of the United Kingdom. Cloudy or overcast at most of the Continental stations, with snow in some parts of Scandinavia and northern Russia, but fine and bright in Algeria and the southern parts of France and Italy. Heavy rain falling during day over the south of England, and many parts of France, but weather improving somewhat in Scotland. Lightning seen at Bauld Point at night.

Temperatures changed very irregularly, but risen quickly in the north of Scotland and also in many parts of the north of Russia. Morning readings highest, 61° at La Cella, 59° at Malta and 57° at Barcelona, Oren and Algiers, above 50° at most of the Mediterranean stations and also on the coasts of Spain. Lowest 0° two at Moscow, 7° at Haparanda, 11° at Uleaborg, and 12° at Archangel; considerably below the freezing point over the northern part of Russia and Scandinavia generally, slightly below over Central Ireland, and below 35° in many parts of the United Kingdom. Daily maxima below 45° on all but <sup>our</sup> some southern coasts, but thermometers exceeding 50° in most part of France and Germany, and reaching 65° at Perpignan.

Wind moderate to strong from the SW<sup>nd</sup> over Spain, France, Germany, and the Netherlands; SE<sup>1</sup> over the western parts of the Channel, and E<sup>1</sup> in the south of Ireland. NW<sup>1</sup> over Scotland and the north of Ireland, with a strong gale at Aberdeen, and W<sup>1</sup> in the north of England, but strong to a gale from E. or SE. in the west of Norway. Light from the SE<sup>nd</sup> over Russia S<sup>1</sup> in Italy and Algeria. Strong SW<sup>1</sup> winds setting in later over the eastern parts of the Channel. Gale in Scotland subsiding gradually.

Barometer highest 30.2 ins. and upwards in an anticyclone over Central Russia, 29.9 ins. to 30.0 ins. and upwards, over nearly the whole of southern Europe and the Mediterranean. Lowest 28.8 ins. and less, in a deep depression lying off the northeast of Scotland; 29.2 ins. and less, in another disturbance approaching over southwest coasts. Gradients rather steep in most parts of Western Europe. Scotch depression subsequently travelling away to the northward; disturbance in southwest advancing over the south of England, but filling up quickly 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.

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 "

# 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 (10 to 12).	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	Corunna	*	*	*	*	*	30.44	+26	55	51	-2	W	2	c	3	*	61	50	0.12	
2	Corunna	*	*	*	*	*	30.39	-05	54	50	-1	SW	1	m	2	*	57	39	-	
3	Corunna	*	*	*	*	*	30.23	-16	51	51	-3	SW	2	m	5	*	59	48	-	
4	Corunna	*	*	*	*	*	30.14	-09	54	50	+3	SSW	4	c	2	*	61	48	-	
6	Corunna	*	*	*	*	*	30.39	-	55	52	-	S	4	m	6	*	59	43	0.04	
7	Belfast	?	29	NE	1	bc	?	?	20	-	+1	NSW	3	bc	*	bc	42	16	-	
"	Corunna	*	*	*	*	*	30.47	+08	55	53	0	W	1	m	?	*	57	52	0.08	
8	Belmullet	-	-	-	-	-	29.86	-25	42	40	-5	WNW	5	bc	*	b. th	49	33	0.63	
"	Belfast	?	35	SW	2	bc	?	?	86	-	+16	W	3	c	*	bc	37	?	-	
"	Corunna	*	*	*	*	*	30.43	-04	54	52	-1	WNW	1	m	5	*	61	50	-	
9	Corunna	*	*	*	*	*	30.46	+03	49	46	-5	SE	3	b	?	*	59	48	0.04	
10	Corunna	*	*	*	*	*	30.34	-12	55	52	+6	SW	3	o	5	*	59	43	-	
11	Belfast	?	42	WNW	6	r	?	?	41	-	0	WNW	4	o	*	r	43	36	0.16	
"	Biarritz	30.26	S3	WNW	6	r	30.27	+03	49	-	-2	SW	3	f	5	*	59	46	0.04	
"	Corunna	*	*	*	*	*	30.33	-01	53	50	-2	SW	4	o	5	*	57	48	0.04	
13	Corunna	*	*	*	*	*	30.14	?	48	44	-	S	4	o	3	*	59	41	-	
14	Corunna	*	*	*	*	*	29.78	-36	55	52	+7	S	7	c	4	*	59	45	-	
15	Sumburgh Hd.	-	-	-	-	-	28.98	-38	41	39	+10	SW	4	o	7	s	41	30	0.11	
"	Corunna	*	*	*	*	*	29.73	-05	47	45	-8	SSE	5	r	4	*	59	41	0.98	
"	Sumburgh Hd.	29.47	42	W	4	b	29.28	-	43	40	-	W	5	b	6	-	-	-	-	
16	Sumburgh Hd.	29.47	42	W	4	b	29.58	+60	43	41	+2	SE	4	o	6	b	44	41	0.11	
"	Corunna	*	*	*	*	*	29.95	+32	45	41	-2	W	5	o	5	*	50	39	0.28	
"	Sumburgh Hd.	29.44	-	-	-	-	29.44	-	43	43	-	SE	5	o	6	-	-	-	-	
17	Sumburgh Hd.	29.43	44	SSE	5	o	29.44	-14	41	39	-2	SSE	4	bc	6	o	44	40	0.16	
"	Corunna	*	*	*	*	*	30.27	+32	54	50	+9	S	5	bc	4	*	54	46	0.16	
"	Sumburgh Hd.	29.53	-	-	-	-	29.53	-	42	40	-	NSW	3	bc	6	-	-	-	-	
18	Sumburgh Hd.	29.62	40	NSW	1	c	29.50	+06	39	38	-2	S	4	r	5	c	44	39	0.08	
"	Sumburgh Hd.	29.46	-	-	-	-	29.46	-	47	46	-	r	3	o	5	-	-	-	-	
19	Sumburgh Hd.	29.51	45	W	3	o	29.60	+10	44	43	+5	r	2	c	4	o	47	39	0.28	
20	Sumburgh Hd.	29.57	38	2	o	f	29.41	-19	44	44	0	SSE	1	f	3	f	47	37	-	
"	Corunna	*	*	*	*	*	30.01	?	51	48	?	SSW	5	o	5	*	55	45	0.08	
"	Sumburgh Hd.	29.37	-	-	-	-	29.37	-	43	43	-	SSE	2	o	3	-	-	-	-	
21	Sumburgh Hd.	29.30	43	SSE	2	o	29.27	-24	41	39	-3	SE	1	o	4	o	44	40	-	
"	Corunna	*	*	*	*	*	29.65	-36	56	51	+5	WNW	7	f	7	*	63	39	0.08	
"	disbon	30.21	57	SW	5	r	30.07	-21	57	57	+6	SW	6	o	4	r	57	51	0.47	
"	Sumburgh Hd.	29.20	-	-	-	-	29.20	-	42	38	-	SE	2	c	4	-	-	-	-	
22	Sumburgh Hd.	29.25	40	ESE	3	o	29.47	+30	38	35	-3	NE	3	c	4	o	44	34	0.09	
"	Corunna	*	*	*	*	*	29.74	+09	51	45	-5	WNW	7	c	6	*	56	32	0.08	
"	Sumburgh Hd.	29.51	-	-	-	-	29.51	-	40	36	-	NE	3	b	5	-	-	-	-	
23	Sumburgh Hd.	29.56	36	NE	2	r	29.53	+06	36	34	-2	r	1	o	4	r	42	33	0.05	
"	Biarritz	29.62	47	WNW	7	r	29.66	?	50	?	?	NSW	5	r	5	r	50	41	0.04	
"	Corunna	*	*	*	*	*	29.91	+17	51	50	0	S	5	r	3	*	54	41	0.16	
"	disbon	29.62	47	SW	4	o	29.80	-25	57	55	+5	SSW	5	c	4	o	57	52	0.20	
"	Sumburgh Hd.	29.47	-	-	-	-	29.47	-	35	35	-	2	o	osp	4	-	-	-	-	
24	Sumburgh Hd.	29.40	35	NSW	1	c	29.27	-26	33	32	-3	r	1	bc	2	c	42	31	0.13	
"	Biarritz	29.48	51	WSW	4	o	29.28	-32	50	48	0	S	3	o	4	o	64	46	-	
"	Sumburgh Hd.	29.26	-	-	-	-	29.26	-	32	32	-	EHE	2	s	3	-	-	-	-	
25	Sumburgh Hd.	29.26	30	r	3	o	29.25	+01	24	22	-9	2	o	bc	2	o	35	21	0.09	
"	Biarritz	29.16	57	S	6	o	29.36	+08	53	-	+3	SW	5	o	4	o	61	46	-	
"	Corunna	*	*	*	*	*	29.15	-	50	47	-	SW	5	o	4	*	61	45	0.63	
"	Sumburgh Hd.	29.27	-	-	-	-	29.27	-	31	30	-	NSW	1	bc	2	-	-	-	-	
26	Sumburgh Hd.	29.27	31	r	2	o	29.27	-01	33	30	+9	NSW	3	b	3	o	34	24	0.01	
27	Sumburgh Hd.	29.18	35	E	2	s	28.80	-47	38	37	+5	E	4	o	6	s	38	33	0.22	
"	Aberdeen	-	-	-	-	-	28.74	-55	34	33	+6	HW	9	osqu	8	ogt	36	28	0.93	
"	Corunna	*	*	*	*	*	29.49	?	50	48	?	SW	4	r	2	*	57	41	0.04	
"	Sumburgh Hd.	28.86	-	-	-	-	28.86	-	39	38	-	2	o	c	6	-	-	-	-	
28	Sumburgh Hd.	28.92	37	r	1	o	29.32	+52	40	35	+2	WSW	3	b	4	o	40	33	0.08	
"	wick	29.10	32	r	5	c	29.48	+73	31	30	-3	W	3	b	2	c	35	29	0.30	
"	Corunna	*	*	*	*	*	30.01	+52	55	51	+5	SW	3	o	2	*	55	41	0.28	
"	Sumburgh Hd.	29.49	-	-	-	-	29.49	-	42	39	-	SSE	3	c	5	-	-	-	-	

REPORTS FOR FEBRUARY 1893

## 2. CORRECTIONS.

		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.	Dirac.	Force (0 to 12).		Reading at 32° F. and Sea Level.	Change since Yesterday Morn.	Dry Bulb.	Wet Bulb.	Change in dry since Yesterday.	Dirac.	Force (0 to 12).				Max.	Min.		
2	Sumburgh Hd.	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.10	
-	Parsonstown....	-	-	-	-	-	29.84	-04	-	-	-	-	-	-	-	-	-	-	-	
3	Cape Grisney...	29.98	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
4	North Foreland	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	43	-	-	
-	Valencia 2pm	-	-	-	-	-	-	-	-	-	-	-	-	0m	-	-	-	-	-	
5	Spurn Head....	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	39	-	-	
-	Valencia.....	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.71	
-	Pringle Point....	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	246	-	-	
6	Parsonstown...	29.19	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	Roche's Point...	29.16	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
7	Spurn Head...	-	-	-	-	-	30.09	-	-	-	-	-	-	-	-	-	-	-	-	
8	Shields.....	-	-	-	-	-	29.50	-49	-	-	-	-	-	-	-	-	-	-	-	
12	Jersey 2pm...	-	-	-	-	-	-	-	249	-	-	-	-	-	-	-	-	-	-	
14	Skagen.....	29.69	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	Pringle Point....	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	244	-	-	
-	Jersey.....	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	44	-	-	
-	London.....	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	37	-	-	
-	Berlin.....	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	30	-	-	
-	Rockfort.....	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	44	-	-	
15	Stornoway....	-	-	-	-	-	-	-	40	-	+ 2	-	-	-	-	-	-	-	-	
17	Jersey.....	29.72	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
20	North Foreland.	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	55	-	-	
-	Belmullet 2pm	-	-	-	-	-	-	-	46	-	-	-	-	-	-	-	-	-	-	
21	Belmullet.....	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	46	-	-	
22	London.....	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.39	
23	Parsonstown...	-	-	SE	1	-	-	-	-	-	-	-	-	-	-	-	-	-	0.16	
-	Brest.....	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
25	Jersey.....	-	44	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
27	Shields.....	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	229	-	