

DAILY WEATHER REPORT

METEOROLOGICAL OFFICE,  
LONDON.

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DAILY WEATHER REPORTS.

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1<sup>ST</sup> JANUARY-30<sup>TH</sup> JUNE,  
1890.

*Sec. Reg. Lond.*



# DAILY WEATHER REPORT

January to June 1890.





# DAILY WEATHER REPORT.

for *Saturday 1<sup>st</sup> March.*

1890.

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

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STATIONS.	YESTERDAY EVENING.					8 A.M. TO DAY.										PAST 24 HOURS.			
	BAROM.	TEMP.	WIND.			BAROMETER.		SHADE TEMP.			WIND.				SHADE TEMP.				
			Reading at 32° F. and Sea Level.	Dry.		Dirac.	Force. (0 to 12.)	Weather.	Reading at 32° F. and Sea Level.	Difference from 8 a.m. yesterday.	Dry.	Wet.			Difference from 8 a.m. yesterday.	Dirac.	Force. (0 to 12.)	Weather.	Sea. (0 to 9.)
SCANDINAVIA.																			
Haparanda ...	30.01	1	N	2	b	30.02	-0.02	-6	-6	-7	2	0	bc	*	14	2	—		
Hernösand ...	30.00	0	2	0	b	30.17	+0.07	6	5	-4	2	0	b	*	23	5	—		
Stockholm ...	30.02	10	NW	2	b	30.00	+0.10	5	5	-0	NW	2	b	*	23	5	—		
Wisby ...	29.99	24	N	6	bc	30.02	+0.13	23	20	-1	N	4	b	*	27	10	—		
Bodö ...	30.16	15	E	2	b	30.07	-0.16	17	14	+4	E	2	b	1	19	10	—		
SCANDINAVIA.																			
Christiansund	30.13	25	ENE	2	b	30.20	+0.02	21	19	-6	ENE	1	b	3	20	19	—		
Skudesnaes ...	30.07	27	SW	1	b	30.10	-0.06	27	23	+2	ENE	2	bc	2	34	25	—		
Christiania Fjord (Færd)	30.10	24	N	5	bc	30.20	+0.02	17	14	-6	N	5	b	1	25	16	—		
Skagen (The Scaw)	30.07	24	E	3	bc	30.15	0.00	21	17	-4	NNE	2	b	3	27	21	—		
Fanø ...	30.07	24	ENE	2	b	30.04	-0.15	22	21	+1	E	4	b	*	30	21	—		
SCANDINAVIA.																			
Sumburgh Head	30.13	31	2	0	o	30.16	-0.23	32	32	+2	N	2	2	2	34	20	0.03		
Stornoway ...	30.20	41	W	4	o	30.17	-0.33	34	33	-1	W	3	bc	3	41	32	0.05		
Wick ...	30.00	35	2	0	o	30.16	-0.29	34	31	+2	E	2	bc	2	36	30	0.20		
Nairn ...	30.05	30	NW	3	o	30.12	-0.30	33	32	+1	ENE	2	c	3	39	31	0.15		
Aberdeen ...	30.22	33	W	2	o	30.12	-0.34	35	32	+5	N	3	bc	4	37	30	0.06		
SCANDINAVIA.																			
Leith ...	30.27	37	W	2	c	30.07	-0.44	34	34	+3	N	3	o	*	40	31	0.02		
Shields ...	30.29	35	W	1	m	29.94	-0.51	30	36	+0	NNE	4	c	4	35	30	0.13		
Spurn Head ...	30.25	33	NW	5	c	29.80	-0.50	34	34	+1	W	4	o	4	36	30	0.14		
York ...	30.31	34	NNW	1	c	29.90	-0.59	35	34	+6	NNW	1	o	*	39	20	0.10		
Loughborough	30.34	34	NNW	2	c	29.99	-0.47	33	32	+4	W	3	o	*	40	20	—		
SCANDINAVIA.																			
Ardrossan ...	30.32	39	W	2	o	30.10	-0.45	35	33	+3	NW	1	bc	0	42	32	—		
Malin Head ...	30.36	38	NW	5	o	30.00	-0.50	40	39	+3	ENE	4	c	2	43	36	0.06		
Mullaghmore ...	30.43	37	W	2	o	30.12	-0.40	43	41	+6	NW	4	c	2	43	36	0.10		
Belmullet ...	30.46	35	W	2	o	30.16	-0.46	39	38	+2	NNW	1	o	*	42	36	0.15		
Donaghadee ...	30.30	30	NNW	2	c	30.07	-0.51	39	35	+2	NNNE	5	b	3	40	35	0.07		
SCANDINAVIA.																			
Liverpool (Bidston)	30.37	35	NNW	3	c	29.97	-0.54	37	37	+5	W	6	o	5	30	32	0.12		
Holyhead ...	30.41	38	NNW	4	o	30.03	-0.52	30	30	+2	NNW	5	o	5	40	36	0.07		
Parsonstown ...	30.45	30	2	0	c	30.15	-0.45	36	35	+5	2	0	o	*	40	31	—		
Valencia ...	30.49	38	NNE	1	bc	30.17	-0.43	44	43	+8	NNW	3	c	*	45	33	0.17		
Roche's Point...	30.47	37	NNNE	3	c	30.10	-0.38	37	36	+2	N	1	c	3	42	33	—		
SCANDINAVIA.																			
Pembroke (St. Ann's Hd.)	30.43	35	N	1	c	30.12	-0.42	40	30	+6	W	4	c	2	40	33	—		
Scilly ...	30.42	39	NNNE	4	c	30.19	-0.30	41	37	+2	NNW	4	bc	4	41	37	—		
Prawle Point ...	30.40	33	N	2	b	30.16	-0.32	33	32	+1	NNW	4	c	2	44	29	—		
Jersey (St. Aubin's)	30.30	30	N	3	c	30.10	-0.24	37	34	0	NNW	3	c	3	42	30	0.02		
Hurst Castle ...	30.36	35	NNE	2	b	30.12	-0.32	34	33	+2	NNE	2	cm	3	41	20	—		
SCANDINAVIA.																			
Dungeness ...	30.30	34	N	3	c	30.00	-0.26	25	25	-4	NW	3	m	2	35	22	—		
London ...	30.32	34	W	2	bc	30.07	-0.34	29	20	-1	W	2	o	*	30	25	—		
Oxford ...	30.34	31	NNW	1	b	30.07	-0.40	29	20	+1	W	3	o	*	40	26	—		
Cambridge ...	30.32	34	N	1	c	30.03	-0.40	32	30	+3	W	1	o	*	40	24	—		
Yarmouth ...	30.25	34	NNW	3	c	30.02	-0.31	20	27	-6	W	2	o	4	30	23	0.06		
SCANDINAVIA.																			
Cuxhaven ...	30.20	25	N	4	b	30.06	-0.00	22	21	-3	o	4	o	*	25	21	—		
Berlin ...	30.06	22	NW	3	bc	30.13	+0.24	14	13	-7	NW	3	b	*	20	12	—		
Wiesbaden ...	*	*	NW	4	*	30.15	+0.16	17	16	-6	NNNE	2	b	*	46	14	—		
Munich ...	30.07	16	NW	4	bc	30.09	+0.21	2	1	-19	SE	3	o	*	21	1	0.04		
The Helder ...	30.15	33	SW	2	o	29.97	-0.29	33	32	+4	NW	3	c	1	34	20	0.20		
SCANDINAVIA.																			
Brussels (9 a.m.)	*	*	*	*	*	30.06	-0.20	20	20	+2	W	2	o	*	33	2	0.04		
Cape Gris Nez	30.20	30	ENE	3	o	30.10	-0.06	25	25	-2	NW	3	m	3	36	20	—		
Paris ...	30.20	30	N	4	b	30.23	-0.15	40	37	+3	NW	1	o	2	36	21	—		
Brest ...	30.20	30	E	2	o	30.25	-0.13	37	32	+2	NW	3	o	2	32	34	—		
Lorient ...	30.26	30	NE	4	bc	30.25	-0.13	37	32	+2	NW	3	o	2	41	30	—		
SCANDINAVIA.																			
Rocheport ...	30.31	36	NE	6	bc	30.30	0.00	20	24	-5	NNE	3	b	*	43	15	—		
Belfort ...	30.01	21	N	1	bc	30.05	+0.11	19	13	-10	E	1	b	*	35	12	—		
Lyons ...	30.05	39	N	6	b	30.09	+0.03	10	16	-9	N	6	b	*	35	10	0.04		
Nice ...	29.57	31	NNNE	6	o	29.64	+0.03	29	24	-11	ENE	5	c	4	45	20	0.00		
Perpignan ...	30.13	37	NE	5	c	30.23	+0.00	24	23	-5	E	3	b	2	45	23	—		
Biarritz ...	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	
SCANDINAVIA.																			
Corunna ...	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	
Lisbon ...	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	

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

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



# WEATHER CHARTS

for 8 a.m. on Saturday, 1<sup>st</sup> March, 1890.

## 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:

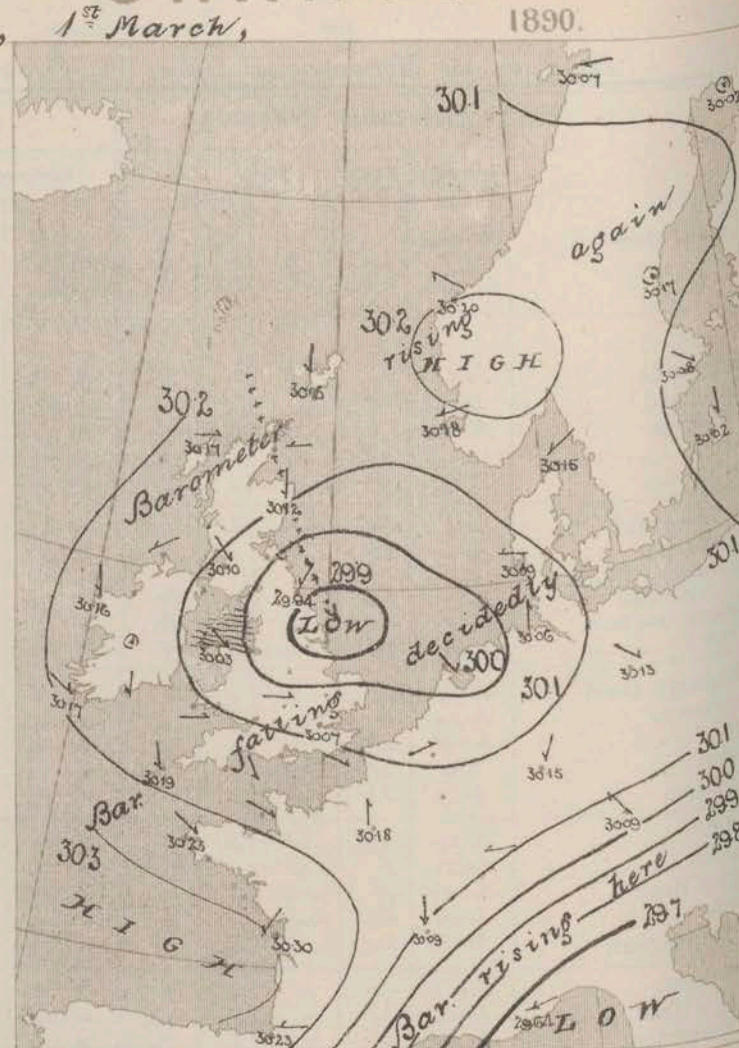
▨ = Rough. ▨ = High.

### MEAN HEIGHT OF THE BAROMETER

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

During the 15 Years: 1871—1885.

STATIONS.	MEAN READINGS.
Sumburgh Head	29.751
Stornoway	29.779
Wick	29.797
Nairn	29.815
Aberdeen	29.830
Leith	29.862
Shields	29.896
York	29.925
Loughborough	29.948
Ardrossan	29.876
Donaghadee	29.892
Holyhead	29.919
Liverpool	29.925
Parsonstown	29.940
Valencia	29.938
Roche's Point	29.941
Pembroke	29.944
Scilly	29.966
Jersey	29.971
Hurst Castle	29.966
Dover	29.955
LONDON	29.967
Oxford	29.966
Cambridge	29.957
Yarmouth	29.938



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

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

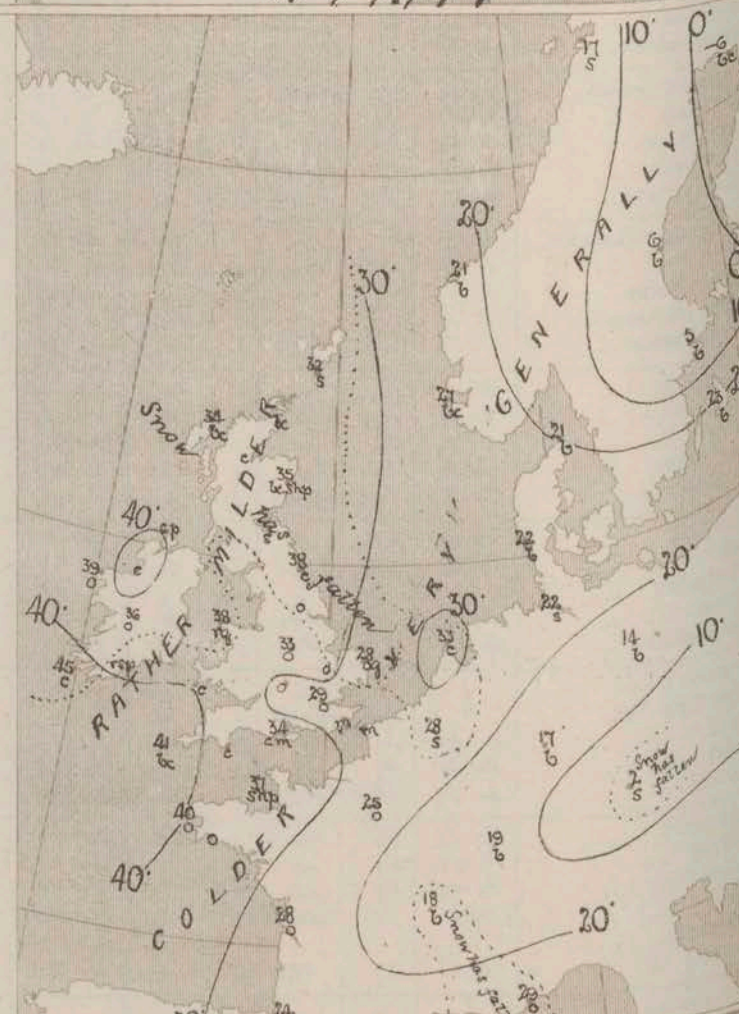
**WEATHER** is shown by Letters of the Beaufort Scale.

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

### MEANS OF TEMPERATURE IN SHADE, AND RAINFALL. (For the month of March.)

STATIONS.	TEMPERATURE.				RAINFALL (Inches.)
	Daily Max.	Daily Min.	Dry. at 8 a.m.	Wet.	
Sumburgh Head	42.6	34.0	38.5	37.1	2.92
Stornoway	44.9	34.4	39.2	38.0	3.87
Wick	44.7	33.9	39.1	37.2	1.97
Nairn	45.6	34.2	38.2	36.3	1.72
Aberdeen	45.4	34.7	38.9	36.8	2.24
Leith	45.2	34.6	39.7	37.9	1.36
Shields	45.9	35.4	39.6	38.0	1.60
York	48.9	33.7	38.6	37.1	1.63
Loughborough	49.3	34.3	39.5	37.7	1.47
Ardrossan	46.8	36.6	40.5	38.7	2.59
Donaghadee	47.3	37.1	41.0	39.7	1.99
Holyhead	47.6	39.2	42.5	41.0	2.21
Liverpool	47.3	37.1	40.8	38.7	1.69
Parsonstown	50.1	35.5	41.2	39.6	2.35
Valencia	51.6	40.6	45.4	43.4	4.24
Roche's Point	50.2	40.0	43.8	42.1	3.71
Pembroke	47.1	39.5	42.6	40.8	2.45
Scilly	49.9	43.0	46.5	44.7	2.38
Jersey	49.9	40.5	44.7	42.7	2.32
Hurst Castle	48.3	37.7	41.6	40.7	1.80
Dover	48.9	37.8	41.6	39.9	1.80
LONDON	50.6	35.5	40.6	38.7	1.43
Oxford	49.5	35.2	39.4	37.9	1.52
Cambridge	50.6	33.3	39.2	37.7	1.33
Yarmouth	45.7	35.8	40.8	39.1	1.77

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





# GENERAL SITUATION AT 8 A.M.

## PRESSURE

Highest, 30.3 ins: and more over the Bay of Biscay, and 30.2 ins: in a small anticyclone lying over Norway.  
Lowest, 29.7 ins: and less, over the southeast of France and Northern Italy, 29.9 ins: and less, in a well marked depression off the east coast of England.  
Barometer was rising in the north of Scotland and also in Scandinavia and the east and south of France, falling decidedly elsewhere.

## TEMPERATURE

Highest, 45° at Valencia, 43° at Mullgarn, 41° at Airdrie, and 40° at Malin Head, Pembroke and Brest.  
Lowest, -6° F. at Haparanda, 2° at Munich, 5° at Stockholm, 6° at Helsingfors, 14° at Berlin, 17° at Bonn and Baden, 18° at Lyons and 19° at Belfast.  
It has risen somewhat except at the Continental stations.

## WIND

Light from the N. in Scotland, but moderate to fresh from NW. to W. over Ireland and England.  
In the south of France the wind is fresh from N. and NE., while over Scandinavia variable breezes are reported.

## WEATHER

Fine at several of the Scotch stations and also over the greater part of the Continent, but dull or cloudy elsewhere, with cold rain at Holyhead, and snow on the east coasts of Scotland and England.  
Snow has fallen at most of the northern and eastern stations and also in some parts of France and Germany.

## SEA

Rough in the Irish Sea, moderate or slight elsewhere.

## PROBABLE CHANGES IN SYSTEM NOW PREVALENT

The depression off the east of England will probably continue to travel away in a southeasterly direction, and seems likely to cause NW winds in most places, with snow in the east and south and rain or sleet at the western stations.

# FORECASTS

For the 24 hours ending at NOON on 2<sup>nd</sup> March 1890.

## DISTRICTS.

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

## FORECASTS.

N<sup>th</sup> winds, force doubtful at present; fair, perhaps some snow showers. Cold.

W<sup>th</sup> to NW<sup>th</sup> winds, moderate; dull with snow at first; finer later.

## DISTRICTS.

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

## FORECASTS

N<sup>th</sup> and NW<sup>th</sup> winds, fresh; changeable, some snow.

NW<sup>th</sup> winds, moderate, fair generally but some showers.

Same as Nos 6 and 7.

## WARNINGS

The NORTH CONE was hoisted last evening in districts 0. and 6.

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



# YESTERDAY'S 2 P.M. REPORTS.

THER: WIND								THER: WIND							
BAR:	D.	W.	D.	F.	WEA.	SEA		BAR:	D.	W.	D.	F.	WEA.	SEA	
Skudesnaes ...	30.13	34	29	NNW	2	C	2	Holyhead ...	30.48	38	13	N	2	C	2
Sumburgh Head ...	30.23	34	30	N	1	O	3	Valencia ...	30.55	43	33	N	2	C	4
Stornoway ...	30.35	39	39	NW	4	R	4	Scilly ...	30.46	40	35	ENE	4	b.p.f	3
Aberdeen ...	30.32	36	31	NNW	4	C	4	Jersey ...	30.42	41	35	NE	4	b.c.m	4
Shields ...	30.37	37	34	NNW	2	C	5	Dungeness ...	30.34	38	33	NNE	6	c.p.f	4
Ardrossan ...	30.42	42	41	NNW	3	O	2	London ...	30.38	37	35	NW	3	c.p.f	4
Malin Head ...	30.48	39	36	NW	1	O.p.f	1	Yarmouth ...	30.31	38	34	NW	4	C	4
Mullaghmore ...	30.51	40	36	NNW	2	C	1	Rochefort ...	30.32	40	35	NE	6	C	4
Belmullet ...	30.53	42	39	NW	2	O	*								

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

Weather fine and bright over the greater part of Western Europe including the southern half of the British Isles, fine also over Southeastern Europe, cloudy, changeable and unsettled elsewhere; snow showers along our north and east coast, as well as in South Germany and the southeast of France, rain at Pisco. Snow falling later in the north and east of the British Isles, some rain and sleet in the west, snow in the Netherlands and east and south of France.

Temperature highest (rather above 50°) at the coast stations on the southern side of the Mediterranean, exceeding 40° on the northern side and also in the west of Spanish Peninsula; below 40° all over the United Kingdom and below the freezing point at almost all inland stations. Lowest of all (1) 1° F. at Tahavanda, 3° at Uleaborg, 5° at Archangel, 10° at Hermand, 13° at Rodo, Kuopio, Stockholm and Riga, 15° at St Petersburg, 16° at Moscow; (2) 4° at Odesa, 12° at Jernberg and Kiev, 13° at Warsaw, 14° at Hermannstadt, 21° at Munich, 22° at Madrid, Limoges, and York, 30° in London, and 31° at Parsonstown. Inclined to rise later over the United Kingdom and to fall in France.

Wind varying greatly, chiefly NW to N over the British Isles, North Sea, the Netherlands and east of France, NE over the Bay of Biscay, Spain and the north of Italy. Nearly calm over Southeastern Europe. Backing towards east in Scotland later and also over North Sea.

Barometer, highest 30.3 ins: to 30.6 ins: and more, over the British Islands and northwest of France, and 29.9 ins: to 30.0 ins: over Austria, Hungary, and the south of Russia. Lowest, 29.5 ins: and less, in a depression over the Mediterranean, 29.6 ins: and less, in another near St Petersburg. Barometer falling over the British Islands all day, and new depression appearing off our extreme northern coast.

### EXPLANATION OF COLUMNS GIVEN ON PAGE 1.

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

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

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

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



# DAILY WEATHER REPORT.

for Sunday 2<sup>nd</sup> March 1890.  
 Issued by the Meteorological Office, 63, Victoria Street, London. R. H. SCOTT, Secretary.

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	BAROM :	TEMP.	WIND.		Weather.	BAROMETER.		SHADE TEMP.			WIND.		Sea. (0 to 9.)	SHADE TEMP.		Amount of Rainfall.	
			Reading at 32° F. and Sea Level.	Dry.		Dirce.	Force. (0 to 12.)	Reading at 32° F. and Sea Level.	Difference from 8 a.m. yesterday.	Dry.	Wet.	Difference from 8 a.m. yesterday.		Dirce.	Force. (0 to 12.)		Weather.
SCANDINAVIA.																	
Haparanda ...	30.01	-4	Z	0	b	29.91	- .11	3	3	+ 9	Z	0	0	*	10	-8	—
Hernösand ...	30.21	10	Z	0	b	30.19	+ .02	14	12	+ 8	NW	2	b	*	28	3	—
Stockholm ...	30.23	12	Z	0	b	30.36	+ .13	2	2	- 2	Z	0	b	*	19	1	—
Wisby ...	30.14	17	N	4	b	30.25	+ .11	22	20	- 1	E	2	b	*	27	16	0.04
Bodö ...	29.99	34	SW	6	0	29.80	- .19	37	34	+ 20	WSW	8	0	5	?	13	—
Christiansund	30.24	28	SW	4	b	30.26	+ .02	31	24	+ 10	WSW	5	c	4	31	21	—
Skudesnaes ...	30.34	24	E	2	b	30.43	+ .09	22	20	- 5	E	2	b	2	33	19	—
Christiania Fjord (Fæder)	30.29	22	NNW	5	b	30.42	+ .13	18	16	+ 1	NNW	2	b	1	23	17	—
Skagen (The Scaw)	30.20	21	ENE	2	b	30.40	+ .20	21	17	0	ENE	1	b	1	28	19	—
Fanö ...	30.25	18	ENE	4	b	30.34	+ .09	16	14	- 6	NE	4	c	*	28	14	—
Sumburgh Head	30.25	33	Z	0	b	30.24	+ .01	36	35	+ 4	Z	0	0	2	40	29	—
Stornoway ...	30.26	35	E	3	b	30.27	+ .01	31	31	- 3	Z	0	b	2	41	25	—
Wick ...	30.26	32	NE	1	b	30.40	+ .14	29	28	- 5	NW	1	b	1	42	22	0.05
Nairn ...	30.23	32	E	2	c	30.41	+ .18	20	30	- 3	WSW	1	b	1	40	27	0.01
Aberdeen ...	30.25	24	ENE	2	b	30.43	+ .18	28	27	- 7	NW	2	b	4	40	27	0.01
Leith ...	30.21	35	?	2	s	30.28	+ .07	35	33	+ 1	E	2	c	*	41	30	0.07
Shields ...	30.14	37	NE	5	c	30.25	+ .11	34	31	- 4	ENE	6	c	5	41	32	—
Spurn Head ...	30.03	36	NE	5	c	30.28	+ .25	26	28	- 5	ENE	6	c	5	38	25	—
York ...	30.08	35	N	1	b	30.35	+ .27	31	29	- 4	ENE	1	c	*	40	28	0.01
Loughborough	30.00	34	NE	4	0	30.27	+ .27	29	27	- 4	NE	3	c	*	39	26	0.01
BRITISH ISLANDS.																	
Ardrossan ...	30.20	36	NE	2	c	30.29	+ .09	31	29	- 4	ENE	2	b	1	41	28	—
Malin Head ...	30.17	39	ESE	3	b	30.27	+ .10	35	31	- 5	SE	3	b	1	41	34	—
Mullaghmore ...	30.15	41	E	5	b	30.40	+ .25	33	31	- 10	E	2	b	1	44	31	0.03
Belmullet ...	30.13	43	ENE	3	b	30.40	+ .27	32	32	- 6	E	2	c	*	47	32	—
Donaghadee ...	30.17	40	ENE	4	b	30.28	+ .11	35	33	- 4	NE	5	b	3	43	33	—
Liverpool (Bidston)	30.10	34	NE	3	b	30.24	+ .14	28	27	- 9	NE	2	b	3	40	27	—
Holyhead ...	30.09	38	ENE	5	b	30.24	+ .15	32	32	- 5	E	3	b	2	41	32	—
Parsonstown ...	30.11	38	Z	0	b	30.24	+ .13	27	26	- 9	Z	0	b	*	45	24	—
Valencia ...	30.09	45	NNE	2	c	30.29	+ .20	35	32	- 10	NE	3	c	1	47	33	—
Roche's Point...	30.06	42	NE	2	c	30.25	+ .19	33	31	- 4	NE	3	b	3	48	32	—
Pembroke (St. Ann's Hd.)	30.00	39	ENE	4	c	30.24	+ .24	31	29	- 9	NE	4	b	2	42	30	—
Scilly ...	29.95	43	NNE	5	c	30.11	- .08	38	36	- 3	ENE	6	c	1	44	36	—
Prawle Point ...	29.92	37	NNW	2	b	30.09	- .03	32	30	- 1	NE	9	b	7	43	30	0.10
Jersey (St. Aubin's)	29.97	40	N	3	0	30.01	- .06	37	36	0	ENE	4	o g m p	3	41	35	0.46
Hurst Castle ...	29.90	36	NW	2	c	30.11	- .01	33	30	- 1	ENE	7	o g m p	5	40	29	—
Dungeness ...	29.93	35	NW	2	0	30.04	- .09	33	32	+ 8	ENE	7	sp	4	38	25	0.07
London ...	29.92	34	NE	3	o m d	30.16	+ .09	27	26	- 2	NE	3	b	*	36	26	0.30
Oxford ...	29.97	34	NE	3	0	30.21	+ .14	29	27	0	NE	3	b	*	39	25	0.03
Cambridge ...	29.98	34	E	1	0	30.23	+ .20	28	26	- 4	NNE	2	c	*	35	19	0.06
Yarmouth ...	29.97	33	E	2	0	30.17	+ .15	29	28	+ 1	ENE	7	sy	6	34	26	0.26
GERMANY & HOLLAND.																	
Cuxhaven ...	30.12	22	ESE	5	b	30.26	+ .14	19	18	- 3	NE	3	b	*	24	17	—
Berlin ...	30.16	24	NW	2	c	30.20	+ .04	17	15	+ 3	N	2	b	*	27	14	—
Wiesbaden ...	*	*	*	*	*	30.09	- .06	20	19	+ 3	SE	2	b	*	30	17	—
Munich ...	30.02	10	E	3	b	29.93	- .09	10	10	+ 8	NNE	4	s	*	19	1	0.04
The Helder ...	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
FRANCE AND BELGIUM.																	
Brussels (a.m.)	*	*	*	*	*	30.03	- .03	27	26	- 1	ENE	3	s	*	38	26	0.08
Cape Gris Nez	?	32	S	1	s	?	?	29	28	- 2	ENE	4	s	4	27	28	0.16
Paris ...	30.04	32	ESE	1	0	30.01	- .03	26	25	+ 1	ENE	1	0	*	27	25	—
Brest ...	30.03	40	NW	1	0	29.84	- .19	39	37	- 1	NE	1	0	*	52	36	0.12
Lorient ...	30.03	38	NW	2	0	29.84	- .19	34	34	- 3	ENE	3	r	2	41	32	0.28
SPAIN & PORTUGAL.																	
Rochefort ...	30.12	38	NNW	4	s	29.94	- .18	32	32	+ 4	SE	4	c	?	42	25	0.12
Belfort ...	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
Lyons ...	29.99	27	N	4	b	29.97	- .02	19	16	+ 1	NNW	1	b	*	31	18	—
Nice ...	29.63	24	S	4	b	29.64	+ .01	26	21	- 3	E	1	?	1	45	25	—
Perpignan ...	29.92	34	NW	4	b	29.93	+ .01	32	28	- 4	N	2	b	*	38	31	—
Blarraz ...	30.10	37	NW	3	b	29.92	- .18	32	30	+ 8	SW	4	c	2	41	24	—
GENUINE SEA.																	
Corunna ...	*	*	*	*	*	30.01	- .20	41	35	0	ENE	1	0	3	45	28	—
Lisbon ...	29.93	43	N	4	b	29.96	- .03	35	28	- 1	NE	4	b	2	48	34	—

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

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



# WEATHER CHARTS

for 8 a.m. on

Sunday, 2<sup>nd</sup> March,

1890.

## 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:

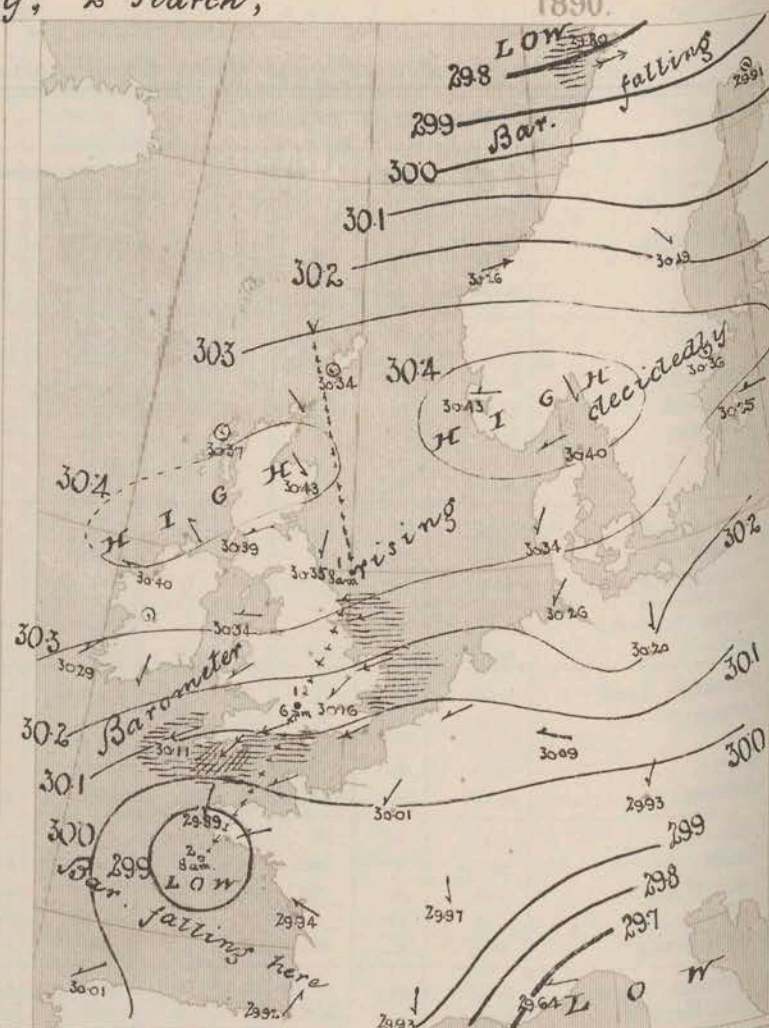
▨ = Rough. ▩ = High.

## MEAN HEIGHT OF THE BAROMETER

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

During the 15 Years: 1871—1885.

STATIONS.	MEAN READINGS.
Sumburgh Head	29.751
Stornoway	29.779
Wick	29.797
Nairn	29.815
Aberdeen	29.830
Leith	29.862
Shields	29.896
York	29.925
Loughborough	29.948
Ardrossan	29.876
Donaghadee	29.892
Holyhead	29.919
Liverpool	29.925
Parsonstown	29.940
Valencia	29.938
Roche's Point	29.941
Pembroke	29.944
Silly	29.966
Jersey	29.971
Hurst Castle	29.966
Dover	29.965
LONDON	29.967
Oxford	29.966
Cambridge	29.957
Yarmouth	29.938



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

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

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

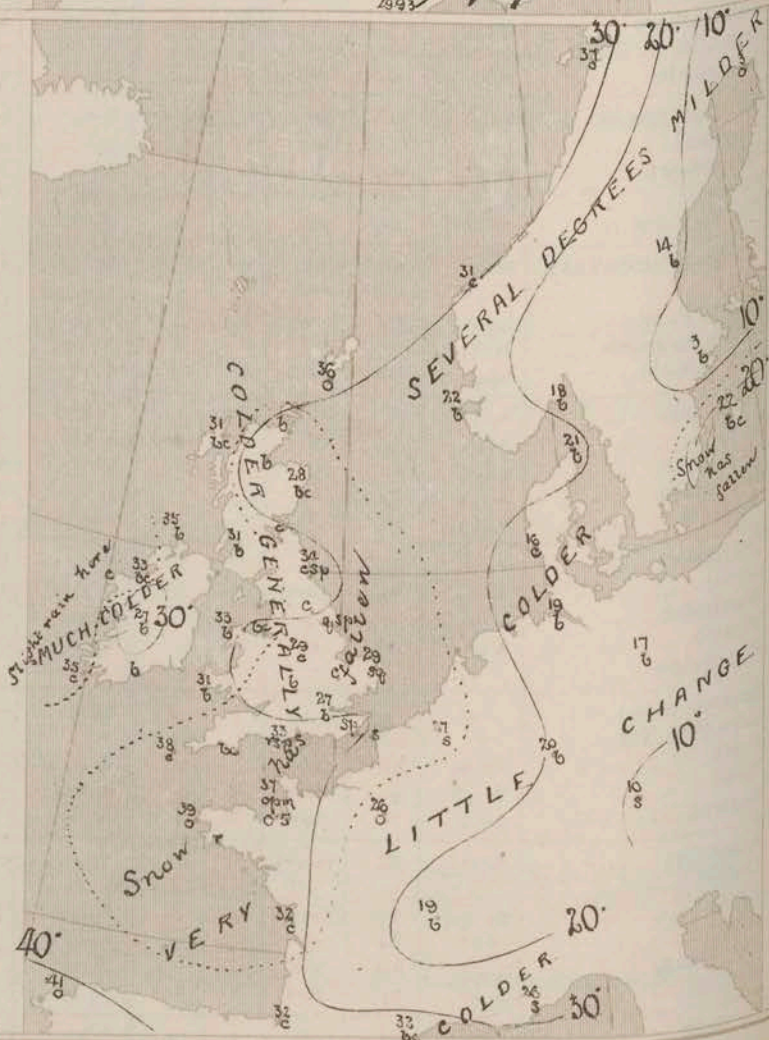
**RAINFALL**—A dotted line separates the districts in which rain has fallen from those where there has been none. Falls of 0.5 in. or more, are quoted in figures.

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

(For the month of March.)

STATIONS.	TEMPERATURE.				RAINFALL (Inches.)
	Daily Max.	Daily Min.	Dry.	Wet.	
Sumburgh Head	42.6	34.0	38.5	37.1	2.92
Stornoway	44.9	34.4	39.2	38.0	3.87
Wick	44.7	33.9	39.1	37.2	1.97
Nairn	45.0	34.2	38.2	36.8	1.72
Aberdeen	45.4	34.7	38.9	36.8	2.24
Leith	48.2	34.6	39.7	37.9	1.36
Shields	45.9	35.4	39.0	38.0	1.60
York	48.9	33.7	38.6	37.1	1.68
Loughborough	49.8	34.3	39.5	37.7	1.47
Ardrossan	46.8	36.6	40.5	38.7	2.59
Donaghadee	47.3	37.1	41.0	39.7	1.99
Holyhead	47.6	39.2	42.5	41.0	2.21
Liverpool	47.3	37.1	40.8	38.7	1.60
Parsonstown	50.1	35.5	41.2	39.6	2.35
Valencia	51.6	40.6	45.4	43.4	4.24
Roche's Point	50.2	40.0	43.8	42.1	3.71
Pembroke	47.1	39.5	42.6	40.5	2.45
Silly	49.9	43.0	46.5	44.7	2.38
Jersey	49.9	40.5	44.7	42.7	2.32
Hurst Castle	48.3	37.7	41.6	40.7	1.80
Dover	46.9	37.8	41.6	39.9	1.80
LONDON	50.6	35.5	40.6	38.7	1.43
Oxford	49.5	35.2	39.4	37.9	1.52
Cambridge	50.6	33.3	39.2	37.7	1.39
Yarmouth	45.7	35.8	40.8	39.1	1.77

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





# GENERAL SITUATION AT 8 A.M.

## PRESSURE

Highest, 30.5 in: to 30.4 in: and more, in a somewhat complex anticyclone, lying over the northern half of our Islands and North Sea and eastern part of Scandinavia.  
 Lowest, 29.7 in: and less, over the Gulf of Genua, 29.8 in: and less, over Denmark, and 29.9 in: and less, in a small depression the centre of which lies near Genoa.  
 Stations steep over Switzerland and southeast of France.  
 Barometer falling over the Bay of Biscay and also over Scotland, rising elsewhere.

## TEMPERATURE

Highest, 42° at Bilbao, 41° at Cosmance, 38° at Brest, 38° at Seilly.  
 Lowest (1) 3° at Haparanda, 14° at Heringsand, 16° at Luleå; (2) 10° at Munich, 17° at Berlin, 20° at Wiesbaden, 26° at Paris, 27° at Brussels, London and Copenhagen.  
 It has been as low as 19° at Lyons, 24° at Larmonstown, 25° at Kingston and Oxford and 26° in London during the night.

## WIND

Strong to gale from WSW. over the northern parts of Scandinavia.  
 Light and variable at our northern stations and also over Central France.  
 Chiefly NE. elsewhere — a strong gale at Bowle Point and a moderate gale on our south and southeast coasts generally.  
 It blew strongly in London at times yesterday evening.

## WEATHER

Very fine and bright at our western and northern stations and in the south of Norway and over Germany.  
 Cloudy and unsettled elsewhere, with snow squalls in the east and south, rain over Brittany.  
 The amount of snow fall yesterday was greatest over the Channel and in London.

## SEA

Rough at Bowle Point, rough on our east coast and in the Channel, moderate to smooth elsewhere.

## PROBABLE CHANGES IN SYSTEM NOW PREVALENT

# FORECASTS

For the 24 hours ending at NOON on 3<sup>rd</sup> March 1890.

## 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

## FORECASTS

NONE ISSUED.

## WARNINGS

NONE ISSUED.

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



# YESTERDAY'S 2 P.M. REPORTS.

		THER:		WIND						THER:		WIND					
	BAR:	D.	W.	D.	F.	WEA.	SEA		BAR:	D.	W.	D.	F.	WEA.	SEA		
Skudesnaes ...	30.25	33	27	E	2	b	2	Holyhead ...	30.03	40	38	NE	4	cg	4		
Sumburgh Head ...	30.22	33	27	E	0	bosp	2	Valencia ...	30.10	46	43	N	3	ev	3		
Stornoway ...	30.23	41	29	E	3	bc	3	Scilly ...	30.04	43	41	WNW	5	o	4		
Aberdeen ...	30.20	37	24	NE	3	bc	5	Jersey ...	30.07	41	37	NW	3	c	2		
Shields ...	30.09	39	24	NE	4	b	4	Dungeness ...	29.96	37	35	NW	3	m	*		
Ardrossan ...	30.15	40	37	NE	2	o	1	London ...	29.94	36	35	SW	1	s	4		
Malin Head ...	30.14	40	36	E	4	b	2	Yarmouth ...	29.94	23	23	SW	2	s	?		
Mullaghmore ...	30.11	43	29	E	5	b cv	3	Rocheport ...	30.24	38	32	NW	3	bc			
Belmullet ...	30.11	44	44	ENE	3	bc	*										

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

Weather fine and bright over Spain, the south and east of France, Germany, the Baltic and Finland, cloudy or overcast in most other places, with snowshowers in many parts of our Islands, Norway, Russia, Austria and the south of France, rain over Southern Italy and Tunis. Rain over Italy, the Adriatic, and some parts of Algeria heavy, and snowfall considerable in the southeast of England, Southern Russia and the Channel.

Temperature above 50° at Brindisi and Palermo, below 40° at all but the extreme western coast stations, and below the freezing point over almost the whole of the inland parts of Europe and the southeast of England. Lowest values (1) -1°F to -9°F over Finland and the north of Russia, +5° at Stockholm, 7° at Hango, 10° at Petersburg, 14° at Berlin, and 15° at Moscow and Riga; (2) 2°F at Munich, 15° at Prague, 17° at Vienna and Wiesbaden, 20° at Madrid, 25° at Paris, and 29° in London. Not exceeding 36° in London all day and not reaching 60° even in Algeria. Frost hard at night over Europe generally.

Wind very variable in direction, light to moderate in force; anticyclonic over Scandinavia and Russia, but cyclonic over the British Islands and North Sea, and also over the Mediterranean and Southern Europe. NE and E winds very general in the British Islands later and SW wind setting in over Norway; not much change elsewhere.

Barometer highest, 30.2 in: to 30.3 in: and more over the Bay of Biscay, 30.1 in: to 30.2 in: and more, over Norway and also over the southern half of Russia, lowest 29.4 in: and less, in a depression over southeastern part of the Mediterranean, 29.6 in: and less, in extreme northeast of European Russia, and 29.9 in: and less, in a small depression near Flamborough Hd. Latter depression moving southwestward, later, and anticyclonic over Norway spreading to Scotland.

### EXPLANATION OF COLUMNS GIVEN ON PAGE 1.

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

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

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

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



# DAILY WEATHER REPORT.

for Monday 3<sup>rd</sup> March.

1890.

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

Issued by the Meteorological Office, 63, Victoria Street, London. R. H. SCOTT, Secretary.																	
STATIONS.	YESTERDAY EVENING.					8 A.M. TO DAY.									PAST 24 HOURS.		
	BAROM.	TEMP.	WIND.		Weather.	BAROMETER.		SHADE TEMP.			WIND.		Weather.	Sea. (0 to 12.)	SHADE TEMP.		Amount of Rainfall.
	Reading at 32° F. and Sea Level.	Dry.	Dirce.	Force. (0 to 12.)		Reading at 32° F. and Sea Level.	Difference from 8 a.m. yesterday.	Dry.	Wet.	Difference from 8 a.m. yesterday.	Dirce.	Force. (0 to 12.)			Max.	Min.	
SCANDINAVIA.																	
Haparanda ...	29.41	31	SW	6	C	29.72	-1.9	19	18	+16	SW	2	C	*	?	-13	-
Hernösand ...	30.01	32	SW	4	O	29.98	-2.1	37	33	+23	W	2	C	*	?	7	-
Stockholm ...	30.37	15	WSPW	2	C	30.22	-1.4	18	16	+15	W	2	C	*	21	1	-
Wisby ...	30.36	17	SE	4	C	30.30	+0.5	27	24	+5	W	4	C	*	28	14	-
Bodö ...	29.79	28	WNW	6	C	29.76	-0.4	32	30	-5	WSPW	6	C	*	37	25	-
SCANDINAVIA.																	
Christiansund	30.19	37	SW	8	O	30.13	-1.3	37	37	+8	SW	5	O	O	39	?	-
Skudesnaes ...	30.50	26	?	0	O	30.42	-0.1	34	31	+12	ENE	2	O	2	?	25	-
Christiania Fjord (Færder)	30.39	30	WSPW	4	C	30.32	-1.0	27	25	+9	WSPW	3	C	1	30	?	-
Skagen (The Scaw)	30.43	29	?	0	C	30.36	-0.4	21	20	0	SW	2	C	1	?	18	-
Fanö ...	30.46	18	NE	3	C	30.47	+1.3	15	15	-1	NE	1	C	*	27	14	-
SCANDINAVIA.																	
Sumburgh Head	30.28	38	WSPW	2	C	30.27	-0.7	43	42	+7	WSPW	3	C	3	43	36	0.03
Stornoway ...	30.43	40	NW	2	C	30.42	+0.5	40	40	+9	W	4	O	3	44	29	-
Wick ...	30.45	34	SW	1	C	30.40	0.0	37	36	+8	SW	3	O	2	42	29	-
Nairn ...	30.47	33	?	0	C	30.45	+0.4	36	34	+6	WSPW	2	C	1	42	26	-
Aberdeen ...	30.51	34	NNW	1	C	30.50	+0.7	31	28	+3	W	1	C	3	39	26	-
SCANDINAVIA.																	
Leith ...	30.49	35	E	1	C	30.53	+1.7	29	28	-6	WNW	1	C	*	41	26	0.01
Shields ...	30.45	33	ENE	7	C	30.53	+2.0	29	29	-5	WNW	1	C	4	36	28	0.03
Spurn Head ...	30.38	31	NE	6	C	30.51	+2.3	32	31	+3	NNE	4	C	4	32	28	0.06
York ...	30.44	31	NNE	1	C	30.53	+2.0	28	27	-3	N	1	C	*	36	25	0.02
Loughborough	30.40	28	NE	3	SP	30.53	+2.6	25	24	-4	NE	1	C	*	35	23	-
SCANDINAVIA.																	
Ardrossan	30.49	33	N	1	C	30.56	+1.7	29	28	-2	ENE	1	C	1	38	25	-
Malin Head ...	30.51	35	E	2	C	30.58	+2.1	34	32	-1	SW	3	C	1	39	31	-
Mullaghmore ...	30.48	39	ENE	5	C	30.60	+2.0	30	27	-3	SE	1	C	2	40	28	-
Belmullet ...	30.47	43	ENE	3	C	30.60	+2.0	33	31	0	ENE	2	C	*	44	31	-
Donaghadee ...	30.47	38	ENE	3	O	30.59	+2.1	30	29	-5	W	2	C	1	39	30	0.01
SCANDINAVIA.																	
Liverpool (Bidston)	30.44	30	ENE	2	C	30.57	+2.3	29	28	+1	NE	1	C	2	34	26	-
Holyhead ...	30.42	33	ENE	4	C	30.56	+2.2	33	32	0	ENE	3	C	3	37	31	0.01
Parsonstown ...	30.45	35	?	0	C	30.59	+2.5	26	26	-1	?	0	C	*	39	25	-
Valencia ...	30.45	39	NE	4	C	30.58	+2.9	33	31	-2	NE	2	C	2	42	29	-
Roche's Point...	30.40	35	ENE	4	C	30.55	+3.0	31	30	-2	NE	3	C	3	42	30	-
SCANDINAVIA.																	
Pembroke (St. Ann's Hd.)	30.36	34	NE	4	C	30.52	+2.8	28	26	-3	NE	4	C	1	37	27	-
Scilly ...	30.24	36	NE	6	C	30.43	+3.2	32	32	-6	ENE	6	C	5	39	30	-
Prawle Point ...	30.26	31	NE	7	O	30.41	+3.2	28	26	-4	NE	6	C	4	37	26	-
Jersey (St. Aubin's)	30.14	34	NE	5	C	30.33	+3.2	28	26	-9	ENE	4	C	3	40	26	0.25
Hurst Castle ...	30.24	32	ENE	8	O	30.41	+3.0	28	27	-10	ENE	5	C	4	37	24	-
SCANDINAVIA.																	
Dungeness	30.12	28	ENE	7	SP	30.39	+3.5	26	24	-7	ENE	6	C	5	32	21	0.56
London ...	30.31	26	ENE	4	C	30.45	+2.9	24	23	-3	E	1	C	*	32	23	0.02
Oxford ...	30.37	27	NE	4	C	30.49	+2.8	26	24	-3	NNE	3	C	*	34	21	-
Cambridge ...	30.32	27	N	1	C	30.51	+2.8	18	18	-10	N	1	C	*	31	15	0.01
Yarmouth ...	30.25	27	ENE	8	C	30.46	+2.9	30	29	+1	E	4	C	5	33	25	0.08
SCANDINAVIA.																	
Cuxhaven	30.31	25	ENE	4	C	30.42	+1.6	23	22	+4	NE	3	C	*	26	?	-
Berlin ...	30.24	24	NNE	4	C	30.27	+0.7	22	20	+5	NNE	3	O	*	27	?	-
Wiesbaden ...	*	*	*	*	*	30.25	+1.6	23	21	+3	N	4	O	*	28	19	-
Munich ...	29.98	14	NE	3	C	30.08	+1.5	11	10	+1	?	0	C	*	19	9	0.08
The Helder ...	30.33	28	ENE	3	C	30.45	?	26	24	?	ENE	1	C	2	28	23	-
SCANDINAVIA.																	
Brussels (9 a.m.)	*	*	*	*	*	30.39	+3.6	17	17	-10	NE	1	O	*	29	14	-
Cape Gris Nez	*	26	E	6	C	?	?	16	16	-13	ENE	4	C	3	32	16	-
Paris ...	30.07	27	ENE	2	O	30.27	+2.6	13	12	-13	NE	2	C	*	37	12	0.08
Brest ...	30.11	37	ENE	3	O	30.29	+4.0	35	32	-4	ENE	1	C	2	50	30	-
Lorient ...	30.05	36	NE	5	O	30.17	+2.8	26	24	-8	NE	5	C	4	41	?	-
SCANDINAVIA.																	
Rocheport	29.99	36	NE	4	C	30.13	+0.1	27	26	-5	ENE	5	O	2	45	21	-
Belfort ...	30.08	21	SW	1	C	30.08	?	19	14	?	SW	1	C	*	28	10	-
Lyons ...	29.97	24	N	3	C	30.13	+1.6	14	12	-5	N	2	C	*	31	14	-
Nice ...	29.73	30	WSPW	5	C	29.95	+3.1	27	25	+1	ENE	5	C	2	41	?	-
Perpignan ...	29.88	38	N	2	O	29.97	+0.4	34	30	+2	E	3	O	*	44	32	-
Biarritz ...	29.82	38	E	3	C	29.92	0.0	27	27	-5	E	3	O	2	46	27	0.12
SCANDINAVIA.																	
Corunna ...	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
Lisbon ...	29.95	44	N	5	O	29.94	-0.2	41	38	+6	NNE	3	C	2	50	?	0.04

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

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



# WEATHER CHARTS

for 8 a.m. on

Monday, 3<sup>rd</sup> March,

1890.

## BAROMETER, WIND AND SEA.

### EXPLANATION OF MAP

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

Changes since previous morning are stated in words.

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

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

→→ = forces 5 to 7; →→ = forces 1 to 4.

⊙ = dead calm.

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

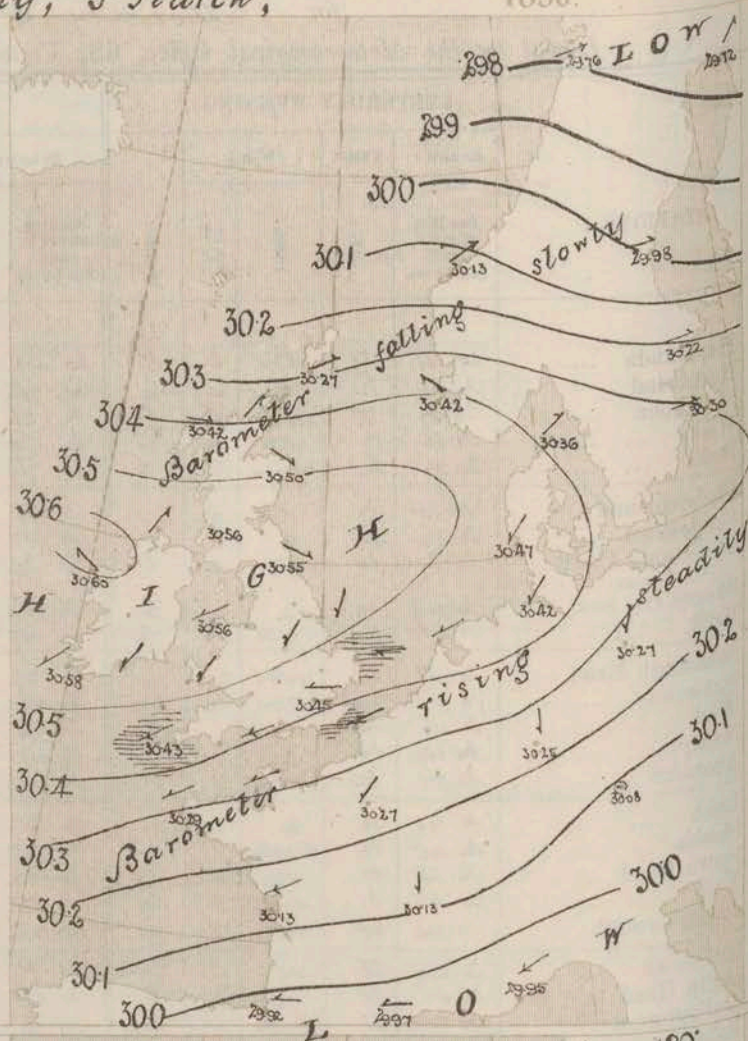
▨ = Rough. ▩ = High.

### MEAN HEIGHT OF THE BAROMETER

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

During the 15 Years: 1871—1885.

STATIONS.	MEAN READINGS.
Sumburgh Head	29.751
Stornoway	29.779
Wick	29.797
Nairn	29.815
Aberdeen	29.830
Leith	29.932
Shields	29.896
York	29.926
Loughborough	29.948
Ardrossan	29.876
Donaghadee	29.892
Holyhead	29.910
Liverpool	29.925
Parsonstown	29.940
Valencia	29.978
Roche's Point	29.941
Pembroke	29.944
Sally	29.966
Jersey	29.971
Hurst Castle	29.966
Dover	29.955
LONDON	29.967
Oxford	29.966
Cambridge	29.957
Yarmouth	29.938



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

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

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

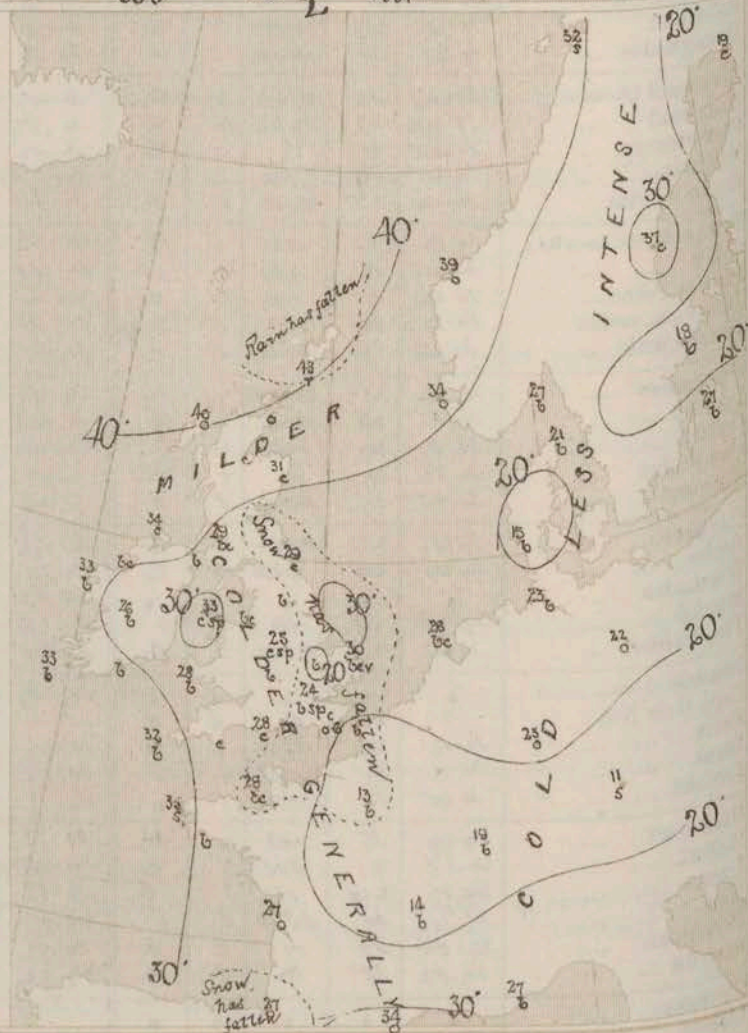
**RAINFALL**—A dotted line separates the districts in which rain has fallen from those where there has been none. Falls of 0.5 in. or more, are quoted in figures.

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

(For the month of March.)

STATIONS.	TEMPERATURE.				RAINFALL (Inches.)
	Daily Max.	Daily Min.	Daily at 8 a.m.	Wind.	
Sumburgh Head	42.6	34.0	38.5	37.1	2.92
Stornoway	41.9	33.4	38.2	38.0	3.87
Wick	41.7	33.9	39.1	37.2	1.97
Nairn	45.6	34.2	38.2	38.3	1.72
Aberdeen	45.4	34.7	38.9	36.5	2.24
Leith	48.2	34.6	39.7	37.9	1.86
Shields	45.9	36.4	39.6	38.0	1.60
York	45.9	35.7	38.6	37.1	1.68
Loughborough	49.3	34.0	39.3	37.7	1.47
Ardrossan	46.8	36.6	40.6	38.7	2.69
Donaghadee	47.3	37.1	41.0	39.7	1.00
Holyhead	47.6	39.2	42.5	41.0	2.21
Liverpool	47.3	37.1	40.6	38.7	1.68
Parsonstown	50.1	39.5	41.2	39.6	1.55
Valencia	51.5	40.6	45.4	43.4	4.24
Roche's Point	50.2	40.8	43.8	42.4	3.71
Pembroke	47.1	39.6	42.6	40.8	2.45
Sally	49.9	45.0	46.5	44.7	2.68
Jersey	49.9	40.5	41.7	42.3	2.32
Hurst Castle	48.5	37.7	41.6	40.7	1.50
Dover	46.9	37.8	41.6	39.9	1.86
LONDON	50.6	35.8	40.6	38.7	1.43
Oxford	49.5	35.2	39.4	37.9	1.62
Cambridge	50.0	33.3	38.2	37.7	1.38
Yarmouth	45.7	35.8	40.3	38.1	1.77

**NOTE**—The Temperature means are for the 15 years 1871-85, the Rainfall means are mostly those for the 20 years 1870-89.





# GENERAL SITUATION AT 8 A.M.

## PRESSURE

Highest, 30.5 ins: to 30.6 ins: in an anticyclone lying over England and Ireland.  
 Lowest, 29.8 ins: and less, over the north of Scandinavia, and 29.9 ins: and less over the southern parts of Spain.  
 Barometer falling in Scandinavia and the north of Scotland, but rising elsewhere.

## TEMPERATURE

Highest, 43° at Sumburgh, 44° at Aberdeen, 40° at Stromness, 39° at Christiansund, and 37° at Nisby and Stockholm.  
 Lowest, 11° at Munich, 13° at Paris, 14° at Lyons, 15° at St. Louis, 18° at Stockholm and Cambridge, 19° at Kopenhagen and Belfast, and considerably below the freezing point over the greater part of our Islands and also in the west of France.  
 It has risen considerably in Scotland and over Norway and Sweden, but fallen in most other places.

## WIND

Light from the West in Scotland and strong from the SW and on the eastern shores of the North Sea.  
 N and NE elsewhere, blowing freshly or strongly in the English Channel and also in the west of France.

## WEATHER

Dull, with rain in the north of Scotland, but fair in most other places. Slight showers of snow are, however, reported at a few of the English stations. Snow is falling at Rode, Munich and Basel also. During the past 24 hours snow showers have fallen over many parts of England, the measurable quantity, however, has been generally slight except at Bury, where the fall yielded more than half an inch.

## SEA

Rather rough in the Channel, moderate or slight elsewhere.

## PROBABLE CHANGES IN SYSTEM NOW PREVALENT

Fair and very cold weather is still probable over Ireland and England, in Scotland, however, milder conditions are likely with slight rain occasionally.

# FORECASTS

For the 24 hours ending at NOON on 4<sup>th</sup> March

1890.

## DISTRICTS.

## FORECASTS.

0 SCOTLAND NORTH

1 SCOTLAND EAST

2 ENGLAND N.E.

3 ENGLAND EAST

4 MIDLAND COUNTIES

5 ENGLAND SOUTH

W<sup>ly</sup> and SW<sup>ly</sup> winds, moderate; changeable, some rain.

NE<sup>ly</sup> winds, moderate; fair, very cold.

E<sup>ly</sup> and NE<sup>ly</sup> winds, moderate, fresh in Channel; fair, cold, perhaps some slight snow showers.

## DISTRICTS.

## FORECASTS

6 SCOTLAND WEST

7 ENGLAND N.W.

8 ENGLAND S.W.

9 IRELAND NORTH

10 IRELAND SOUTH

Light variable breezes, chiefly W<sup>ly</sup>; fair, cold.

E<sup>ly</sup> and NE<sup>ly</sup> winds, fresh or strong; fair, cold.

W<sup>ly</sup> breezes, light or moderate; fair, cold.

NE<sup>ly</sup> breezes, moderate; fine and cold.

## WARNINGS

NONE ISSUED.

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



# YESTERDAY'S 2 P.M. REPORTS.

THER: WIND								THER: WIND								
	BAR:	D.	W.	D.	F.	WEA.	SEA			BAR:	D.	W.	D.	F.	WEA.	SEA
Skudesnaes ...	30.49	30	26	NW	2	0	2	Holyhead ...	...	30.39	36	32	ENE	3	bc	2
Sumburgh Head								Valencia ...	...							
Stornoway ...	30.42	44	41	NW	2	bc	2	Scilly ...	...							
Aberdeen ...								Jersey ...	...	30.09	36	33	ENE	5	CSM	4
Shields ...								Dungeness ...	...	30.00	20	20	ENE	6	2	*
Ardrossan ...								London ...	...							
Malin Head ...	30.45	38	33	ENE	2	bc	0	Yarmouth ...	...							
Mullaghmore ...								Rochefort ...	...	29.99	35	34	ESE	4	C	2
Belmullet ...	30.47	44	38	E	2	bc	*									

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

Weather in morning fine and bright over western and northern parts of our Islands, the southern half of Spain, the greater part of Scandinavia, on the Baltic coasts, and in Finland, cloudy and unsettled elsewhere with snow showers in the E. and S. of England, rain and sleet in the N. and NW of France, snow in several parts of Russia, Austria, S. Germany and the N. shores of the Mediterranean and Adriatic. Snowfall not heavy later, though showers were frequent.

Temperature low all over Europe - very low for the region at the S. stations. The only morning reading exceeding 50° was that at Brindisi (52°). Below 40° throughout our Islands, and below 30° in most places. As low as -6° at Lucerne, -3° at Uleaborg, 0° at Hango, +2° at Helsingfors, 6° at Archangel, 8° at Memel, 10° at Riga, 10° at Breslau and Munich, 14° at Warsaw and Moscow, 19° at Berlin, 19° at Lyons, 24° at Toulon, 26° at Paris, 27° at Brussels and in London. Rising over the N. of our Islands later, continuing low in S.

Wind strong to a gale from SW over the N. half of Norway, nearly calm over the S. half and in Scotland - mainly NE elsewhere; moderate to strong gale over the Channel and E. of England, strong to a gale on N. shores of the Mediterranean, light to moderate elsewhere. Light W. breezes over southern parts of the Mediterranean. No great change later.

Barometer highest 30.3 ins. to 30.4 ins. and more, over all the N. parts of our Islands, Denmark, and the S. half of Norway and Sweden; lowest 29.4 ins. and less in a well marked depression over S. Europe, 29.6 ins. and less in a secondary system over Corsica, Sardinia and Italy; 29.8 ins. and less in a new depression advancing over Finnmark, apparently from the NW, and 29.9 ins. in a small depression advancing over Brittany from NE. Rising in our Islands all day.

## SUMMARY OF CHANGES IN THE WEATHER OVER THE BRITISH ISLANDS AND THEIR NEIGHBOURHOOD FROM THE 23<sup>rd</sup> FEB TO THE 1<sup>st</sup> MAR 1890

During almost the whole of this week anticyclonic conditions have prevailed over the British Islands and their neighbourhood. On Sunday (23<sup>rd</sup>) morning the central part of the system lay immediately over the United Kingdom in many parts of which the height of the Barometer exceeded 30.7 ins. W. winds were blowing over the northern, and E. over the southern parts of our area; the weather was cold, dry and in many places foggy. The anticyclone then moved very slowly to the northward and north-westward, and at 8 am on Thursday lay over the Atlantic in the neighbourhood of our extreme north-western coasts. Small shallow depressions (secondary to larger disturbances over the Baltic and Russia) began to move southwards down the North Sea, causing some snow showers at the northern and eastern stations and increasing N. winds; in the west the wind continued NE, and weather fine. These depressions increased slowly in intensity during the next day or two, until on Saturday a well-marked system reached the northeast of England from the northward, and passing thence in a SW. direction, arrived near the mouth of the Channel at night. This disturbance caused a good deal of snow at all but the western stations and the wind, after backing to W and SW as the centre advanced, shifted to the NE quickly in its rear, with weather more wintry in character than any experienced previously this season.

## EXPLANATION OF COLUMNS GIVEN ON PAGE 1.

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

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

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

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



# DAILY WEATHER REPORT.

for Tuesday 4th March.

1890.

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

1890.

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

STATIONS.	YESTERDAY EVENING.					8 A.M. TO DAY.										PAST 24 HOURS.		
	BAROM.	TEMP.	WIND.		Weather.	BAROMETER.		SHADE TEMP.		WIND.		Weather.	Sea. (0 to 5.)	SHADE TEMP.		Amount of Rainfall.		
	Reading at 32° F. and Sea Level.	Dry.	Dir.	Force. (0 to 12.)		Reading at 32° F. and Sea Level.	Difference from 8 a.m. yesterday.	Dry.	Wet.	Difference from 8 a.m. yesterday.	Dir.			Force. (0 to 12.)	Max.		Min.	
SCANDINAVIA.																		
Haparanda ...	29.40	32	SW	2	o	29.29	-.43	31	30	+12	W	2	c	*	32	14	-	
Hernösand ...	29.50	36	SW	2	c	29.50	-.40	32	30	-5	S	6	bc	*	45	30	-	
Stockholm ...	30.13	27	2	0	c	29.86	-.36	28	25	+10	WSW	2	c	*	32	14	-	
Wisby ...	30.19	33	WSW	4	c	30.03	-.27	29	27	+2	SW	4	c	*	34	14	-	
Bodö ...	29.48	41	WSW	8	T	28.82	-.94	39	38	+7	SSW	4	T	3	41	?	0.24	
Christiansund ...	29.87	44	SW	6	c	29.13	-1.00	42	39	+3	SW	8	T	5	45	?	0.04	
Skudesnaes ...	30.25	?	SSW	2	T	29.83	-.59	40	39	+6	SSW	8	o	5	41	?	0.00	
Christiania Fjord (Færd)	30.15	34	WSW	5	c	29.82	-.50	36	34	+9	SW	6	c	3	?	?	-	
Skagen (The Scaw)	30.22	31	W	1	c	29.99	-.37	38	36	+7	NW	3	c	4	?	21	-	
Fanö ...	30.35	32	SW	2	S	30.23	-.24	33	32	+10	SW	2	c	*	34	?	0.04	
Sumburgh Head ...	30.13	45	W	3	o	29.41	-.86	46	45	+3	W	8	T	7	47	43	0.32	
Stornoway ...	30.28	44	W	4	o	29.69	-.73	48	48	+8	W	7	T	6	48	36	0.15	
Wick ...	30.26	44	W	2	c	29.62	-.78	48	46	+11	NW	6	o	9	48	36	-	
Nairn ...	30.32	40	W	3	c	29.77	-.68	45	45	+9	WSW	4	c	3	47	33	-	
Aberdeen ...	30.35	39	SSW	1	bc	29.87	-.63	43	40	+12	SW	2	ogpu	2	46	31	-	
Leith ...	30.43	38	W	3	bc	30.02	-.53	43	41	+14	WSW	5	c	*	43	28	-	
Shields ...	30.49	34	SW	2	c	30.19	-.56	36	34	+7	SSW	3	c	2	38	27	-	
Spurn Head ...	30.48	34	NE	3	c	30.31	-.20	31	29	-1	SW	4	c	3	35	28	0.02	
York ...	30.52	33	NE	1	c	30.31	-.24	30	30	+2	S	2	c	*	37	25	-	
Loughborough ...	30.51	30	ENE	2	c	30.43	-.10	21	21	-4	WSW	1	c.m.	*	39	18	-	
BRITISH ISLANDS.																		
Ardrossan ...	30.46	40	W	1	o	30.11	-.45	44	43	+15	WSW	5	o.p.	4	44	28	-	
Malin Head ...	30.47	39	SW	4	bc	30.11	-.47	44	43	+10	SW	5	bc.p.	3	44	34	0.02	
Mullaghmore ...	30.54	39	WSW	2	o	30.25	-.35	43	41	+13	SW	4	o.p.m.	3	43	29	-	
Belmullet ...	30.56	41	SSW	2	c	30.28	-.32	46	45	+13	W	5	o	*	46	32	0.03	
Donaghadee ...	30.52	39	WSW	2	o	30.23	-.36	39	38	+9	SW	3	o	2	44	30	-	
Liverpool (Bidston) ...	30.53	31	NNW	1	bc	30.36	-.21	32	31	+3	S	2	o	3	34	28	-	
Holyhead ...	30.54	33	NNW	1	c	30.36	-.20	37	35	+4	SW	4	o.p.g.	3	38	30	-	
Parsonstown ...	30.59	37	2	0	c	30.38	-.21	36	34	+10	SW	1	c	*	41	25	-	
Valencia ...	30.58	38	NNE	1	bc.m.	30.46	-.12	38	37	+5	ENE	2	o	3	42	32	0.05	
Roche's Point ...	30.56	31	E	3	bc	30.45	-.10	35	33	+4	NNW	2	c	3	40	27	-	
Pembroke (St. Ann's Hd.) ...	30.52	32	NNE	1	bc	30.43	-.09	33	31	+5	ENE	2	c	1	35	28	-	
Scilly ...	30.47	33	ENE	6	bc	30.43	0.0	35	34	+3	ENE	3	bc	3	36	31	-	
Prawle Point ...	30.46	30	ENE	5	bc	30.44	+0.3	28	26	0	NNE	4	c	3	34	23	-	
Jersey (St. Aubin's) ...	30.40	33	ENE	5	c.g.	30.41	+0.8	25	23	-3	ENE	2	bc.m.	2	33	21	0.22	
Hurst Castle ...	30.43	33	ENE	4	c.m.	30.45	+0.4	27	25	-1	ENE	2	bc.m.	2	37	23	-	
Dungeness ...	30.42	29	ENE	6	c	30.43	+0.4	15	14	-11	N	2	bc	2	32	13	-	
London ...	30.47	29	NE	2	o.m.	30.44	-.01	19	18	-5	W	1	bc.f.	*	33	15	-	
Oxford ...	30.52	29	NNE	2	bc	30.45	-.04	20	19	-6	S	0	bc.m.	*	35	17	-	
Cambridge ...	30.50	29	N	1	c	30.43	-.08	21	20	+3	SSW	1	c	*	35	14	-	
Yarmouth ...	30.45	32	ENE	8	c.g.p.	30.38	-.08	27	26	-3	NW	2	c	3	33	22	0.02	
GERMANY & HOLLAND.																		
Cuxhaven ...	30.47	26	WSW	2	bc	30.33	-.09	26	25	+3	SW	3	c	*	26	23	-	
Berlin ...	30.37	27	NNE	3	bc	30.39	+1.2	21	21	-1	NW	2	c	*	28	18	-	
Wiesbaden ...	*	*	*	*	*	30.38	+1.3	22	21	-1	NE	2	c	*	28	18	-	
Munich ...	30.24	12	S	0	c	30.28	+2.0	1	1	-10	SSW	3	c	*	25	-2	0.04	
The Helder ...	30.47	26	ENE	1	c	30.37	-.08	30	29	+4	SW	2	c	2	30	25	-	
FRANCE AND BELGIUM.																		
Brussels (9 a.m.) ...	*	26	E	3	c	30.38	-.01	15	15	-2	ENE	1	c	*	28	14	-	
Cape Gris Nez ...	*	*	*	*	*	30.36	?	19	19	+3	SE	2	c	*	29	16	-	
Paris ...	30.34	25	NE	3	c	30.36	+0.9	16	?	+3	NE	1	c	*	29	?	-	
Brest ...	30.37	29	E	3	c	30.36	+0.7	28	26	-7	E	1	o	3	48	27	0.75	
Lorient ...	30.29	29	ENE	5	bc	30.36	+1.9	24	24	-2	NE	4	c	2	36	23	-	
Rochefort ...	30.25	28	NE	6	bc	30.28	+1.5	22	22	-5	NE	6	c	3	36	16	-	
Belfort ...	30.13	16	N	1	c	30.18	+1.0	21	16	+2	N	1	c	*	25	10	-	
Lyons ...	30.19	25	N	1	c	30.26	+1.3	16	15	+2	N	1	c	*	33	?	-	
Nice ...	30.07	33	SE	4	c	30.04	+0.9	31	25	+4	E	4	c	3	43	?	-	
Perpignan ...	30.08	30	NW	2	c	30.10	+1.3	31	29	-3	NW	1	c	*	39	28	0.16	
Biarritz ...	30.08	34	ESE	3	c	30.16	+2.4	22	20	-5	ESE	3	c	2	37	19	-	
PENINSULA.																		
Corunna ...	29.93	45	NNW	5	c	29.90	-.04	35	31	-6	N	5	c	4	52	34	-	
Lisbon ...																		

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

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



# WEATHER CHARTS

for 8 a.m. on

Tuesday, 4<sup>th</sup> March.

1890.

## 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.

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

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⊙ = dead calm.

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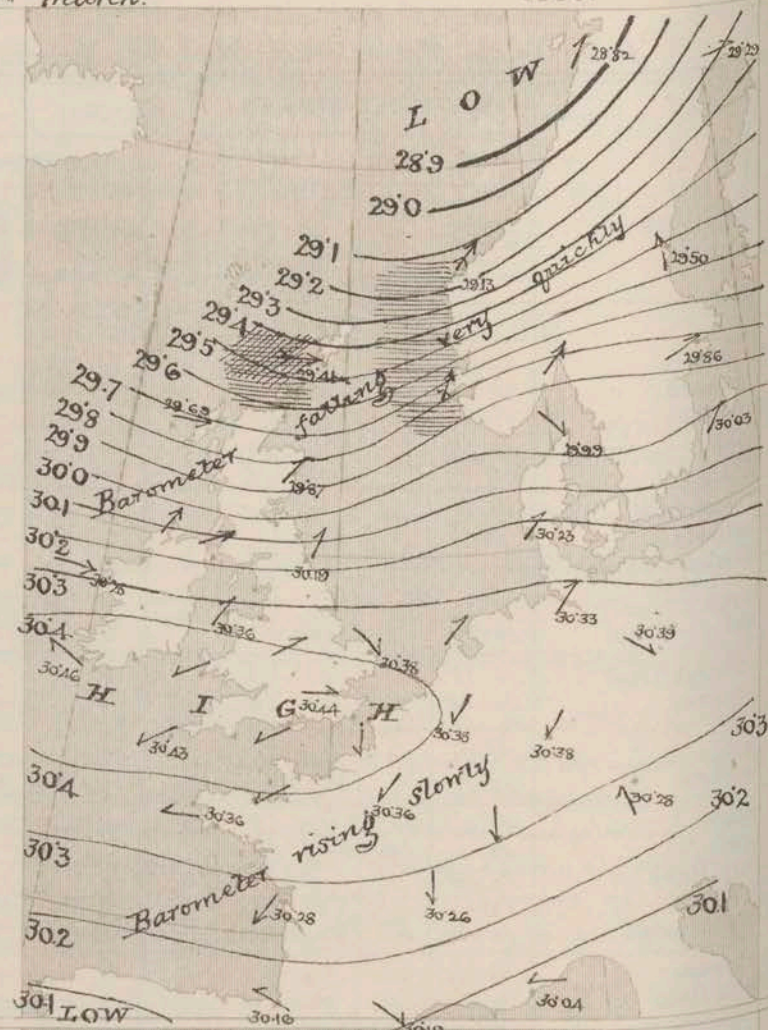
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at 8 a.m. for the month of March.

During the 15 Years: 1871—1885.

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Shields	29.896
York	29.925
Loughborough	29.948
Ardrossan	29.876
Donaghadee	29.891
Holyhead	29.919
Liverpool	29.925
Parsonstown	29.940
Valencia	29.938
Roche's Point	29.941
Pembroke	29.944
Sally	29.966
Jersey	29.971
Hurst Castle	29.966
Dover	29.955
LONDON	29.967
Oxford	29.966
Cambridge	29.957
Yarmouth	29.938



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

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

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

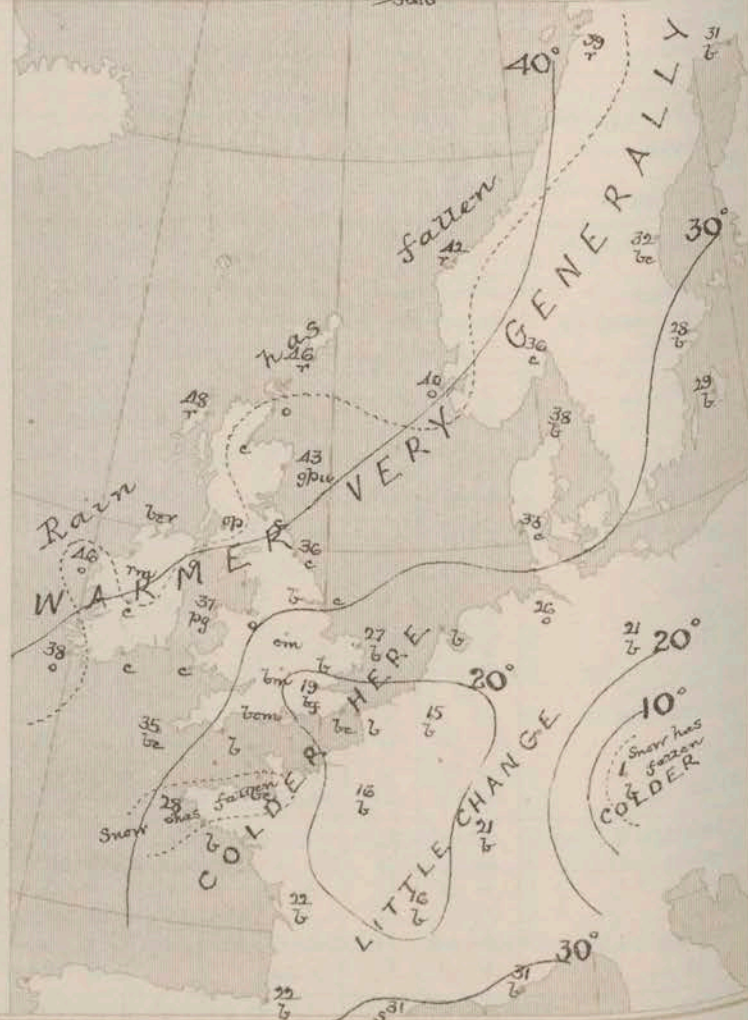
**RAINFALL**—A dotted line separates the districts in which rain has fallen from those where there has been none. Falls of 0.5 in. or more, are quoted in figures.

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

(For the month of March.)

STATIONS.	TEMPERATURE.				RAINFALL. (Inches.)
	Daily Max.	Daily Min.	At 8 a.m.	Wind	
Sumburgh Head	42.6	34.0	35.5	37.1	2.92
Stornoway	44.9	34.4	39.2	38.0	3.87
Wick	44.7	33.9	39.1	37.2	1.97
Nairn	43.6	34.2	38.2	36.3	1.72
Aberdeen	43.4	34.7	38.9	36.8	2.24
Leith	46.2	34.6	39.7	37.9	1.36
Shields	46.2	35.4	39.6	38.0	1.60
York	48.9	33.7	38.6	37.1	1.83
Loughborough	49.4	34.3	39.6	37.7	1.47
Ardrossan	46.8	36.6	40.5	38.7	2.59
Donaghadee	47.3	37.1	41.0	39.7	1.99
Holyhead	47.6	39.2	42.5	41.0	2.21
Liverpool	47.3	37.1	40.8	38.7	1.69
Parsonstown	50.1	35.5	41.2	39.6	2.35
Valencia	51.6	40.6	45.4	43.4	4.24
Roche's Point	50.2	40.0	43.8	42.1	3.71
Pembroke	47.1	39.5	42.6	40.8	2.45
Sally	49.9	43.0	46.5	44.7	2.38
Jersey	49.9	40.5	44.7	42.7	2.32
Hurst Castle	48.5	37.7	41.6	40.7	1.80
Dover	48.9	37.8	41.6	39.9	1.88
LONDON	50.6	35.8	40.6	38.7	1.43
Oxford	49.5	35.2	39.4	37.9	1.52
Cambridge	50.6	33.3	39.2	37.7	1.33
Yarmouth	45.7	35.8	40.8	39.1	1.77

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





# GENERAL SITUATION AT 8 A.M.

## PRESSURE

Highest, 30.4 ins. and more, in the anticyclone now lying over the southern parts of our Islands and the Channel.  
Lowest, 28.9 ins. and less, over Finnmark, and about 29.6 ins. in the north of Scotland.

Gradients are steep over Scandinavia, rather so over Scotland, slight over the southern parts of our Islands and in France.  
Barometer falling except in France; in the north the fall has been rapid.

## TEMPERATURE

Highest, 48° at Stornoway and Wick, 46° at Sumburg H<sup>o</sup> and Belmullet, 43° at Aberdeen, 42° at Christiansund.

Lowest, 1° F. at Munich, 15° at Brüssel and Dungeness, 16° at Paris, 13° in London, 21° at Loughborough.

It has been as low as 15° in the screen and 10° on the grass in London early this morning; at Dungeness it has been down to 13° in the screen and free report a minimum of 11°.

## WIND

Blowing a gale from SW. in Norway, strong and squally from the W<sup>nd</sup> at several of the Scotch stations, and fresh to moderate over the northern parts of Ireland and England. Variable airs and calms prevail over the south midlands and the Home counties, E<sup>ly</sup> breezes in the Channel.

## WEATHER

Fine and bright over France and the south of our Islands, cloudy or overcast, and unsettled in the north, with rain or wet snow in several localities. Solar halos were seen from some of our northern and midland counties yesterday. Heavy snowstorm occurred in Brittany and the Channel Islands in night.

## SEA

Rough in the far north, slight or smooth elsewhere.

## PROBABLE CHANGES IN SYSTEM NOW PREVALENT

The W<sup>ly</sup> and SW<sup>ly</sup> wind is spreading steadily to the southward, and will probably be general tomorrow, and blow strongly over the northern parts of the Kingdom.

## FORECASTS

For the 24 hours ending at NOON on 5<sup>th</sup> MARCH 1890.

### DISTRICTS.

### FORECASTS.

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

W<sup>ly</sup> and NW<sup>ly</sup> gales and strong winds; squally, rain and sleet at times.

SW<sup>ly</sup> to NW<sup>ly</sup> winds, strong to a gale; fair to squally, with snow.

Same as N° 5

Same as N° 2

Calms, and W<sup>ly</sup> winds light; foggy to fine — becoming milder.

### DISTRICTS.

### FORECASTS

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

Same as N° 0 and 1.

Same as N° 5

Same as N° 0 and 1.

SW<sup>ly</sup> breezes, freshening; fair to showery.

### WARNINGS

The SOUTH CONE has been hoisted (at 11.30 am) in districts 0.1.6. and parts of 2 and 3.

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



# YESTERDAY'S 2 P.M. REPORTS.

	THER:		WIND		WEA.	SEA		THER:		WIND		WEA.	SEA
	BAR:	D.	W.	D.	F.			BAR:	D.	W.	D.	F.	
Skudesnaes ...	30.36	39	36	ESE	2	0	2	Holyhead ...	30.57	35	34	ENE	2
Sumburgh Head ...	30.19	46	45	W	3	0	3	Valencia ...	30.59	40	35	NE	3
Stornoway ...	30.35	48	47	W	4	C	4	Scilly ...	30.44	35	35	ENE	6
Aberdeen ...	30.42	43	37	SSW	2	C	3	Jersey ...	30.38	32	28	NE	5
Shields ...	30.54	36	35	WNW	1	C	3	Dungeness ...	30.42	31	30	ENE	5
Ardrossan ...	30.51	40	38	W	1	0	1	London ...	30.49	32	32	NNE	2
Malin Head ...	30.52	40	37	SW	3	0	2	Yarmouth ...	30.44	31	30	NE	4
Mullaghmore ...	30.57	39	34	SW	3	0	2	Rochefort ...	30.21	34	32	ENE	6
Belmullet ...	30.58	42	39	SSW	2	0	*						

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

*Weather* fine over the greater part of western Europe, as well as over the Baltic and the south of Scandinavia, but foggy in the south of Scotland; snow showers reported at Loughborough and Holyhead. Dull elsewhere with snow at Bodo, Warsaw, Kiev, Breslau, Swinemunde, Memel, Vienna and Tunis. Heavy snow storm at Jersey in night.

*Temperature* highest 51° at Malta, and 50° at Brindisi and Constantinople, somewhat high 45° and upwards on the coasts of Algeria. Lowest (1) 3° at Riga, 8° at Memel, 10° at Moscow, and 12° at St Petersburg; (2) 11° at Munich, 13° at Paris, 14° at Lyons, and 16° at Cape Gris Nez; (3) 18° at Cambridge, 24° in London, and 25° at Loughborough. Frost prevailing in all localities excepting the north of Scotland, the west of Norway and the extreme south part of Europe. Rise taking place in Scotland later.

*Wind* W<sup>2</sup> (SW to NW) over northern Russia, Scandinavia and the North of our Islands, fresh or strong in force in the west of Norway. NE<sup>2</sup> or E<sup>2</sup> over France, Spain, Central Europe and the southern parts of the United Kingdom; strong in the English Channel. Light and variable over Algeria and the southern parts of Russia and Italy.

*Barometer* highest 30.3 ins. to 30.6 ins. over our Islands and the North Sea, Denmark, North Germany and the Baltic. Lowest 29.5 ins. and less in a depression lying in the neighbourhood of the White Sea, 29.7 ins. and less in another disturbance lying over the south of Russia, 29.9 ins. and less in shallow systems lying respectively over the Adriatic and the western end of the Mediterranean. Steady fall of the barometer taking place later over Scandinavia and the North of our Islands.

### EXPLANATION OF COLUMNS GIVEN ON PAGE 1.

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

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

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

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



# DAILY WEATHER REPORT.

for *Wednesday, 5<sup>th</sup> March, 1890.*  
*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.

1890.

STATIONS.	YESTERDAY EVENING.						8 A.M. TO DAY.										PAST 24 HOURS.		
	BAROM.  Reading at 32° F. and Sea Level.	TEMP.  Dry.	WIND.		Weather.		BAROMETER.		SHADE TEMP.			WIND.		Weather.	Sea. (0 to 12.)	SHADE TEMP.			
			Dir.	Force. (0 to 12.)			Reading at 32° F. and Sea Level.	Difference from 8 a.m. yesterday.	Dry.	Wet.	Difference from 8 a.m. yesterday.	Dir.	Force. (0 to 12.)			Max.	Min.	Amount of Rainfall.	
SCANDINAVIA.																			
Haparanda ...	28.89	33	SW	6	0	28.81	- .48	32	32	+ 1	SW	6	S	*	37	28	-		
Hernösand ...	28.97	38	S	8	0	28.95	- .55	32	32	0	?	4	S	*	41	30	0.04		
Stockholm ...	29.43	33	SW	4	0	29.20	- .66	31	28	+ 3	SSW	6	O	*	41	21	-		
Wisby ...	29.77	33	?	6	6	29.35	- .68	30	28	+ 1	SW	8	bc	*	36	25	-		
Bodö ...	28.58	33	WSW	4	m	28.73	- .09	28	26	- 11	WSW	7	O	4	39	27	-		
SCANDINAVIA.																			
Christiansund ...	28.79	33	NNW	6	S	29.13	- .00	27	25	- 15	W	6	S	6	?	25	0.71		
Skudesnaes ...	29.15	36	WNW	7	O	29.37	- .46	31	28	- 9	NW	8	C	5	41	28	-		
Christiania Fjord (Fæder) ...	29.13	36	SSW	7	T	29.10	- .72	35	30	- 1	WNW	5	O	5	37	34	0.04		
Skagen (The Scaw) ...	29.23	33	SW	8	S	29.13	- .86	32	29	- 6	?	4	b	4	39	32	0.08		
Fanö ...	29.57	31	SW	6	S	29.35	- .88	31	30	- 2	NW	5	b	*	37	?	0.08		
SCANDINAVIA.																			
Sumburgh Head ...	29.24	34	NNW	6	osp	29.58	+ .17	27	27	- 19	NNW	4	S	6	47	25	0.16		
Stornoway ...	29.62	40	NW	7	T	29.80	+ .11	40	39	- 8	NW	4	T	5	48	34	0.08		
Wick ...	29.45	37	NW	8	O	29.70	+ .08	32	31	- 16	N	3	C	2	51	30	0.30		
Nairn ...	29.59	41	WSW	6	O	29.80	+ .03	37	36	- 8	W	4	O	4	45	34	0.05		
Aberdeen ...	29.52	43	W	7	bcp, q, u	29.76	- .11	34	31	- 9	WNW	4	cq, sp	4	53	32	0.10		
SCANDINAVIA.																			
Leith ...	29.62	47	WSW	5	bc	29.84	- .18	40	36	- 3	W	1	O	*	48	37	-		
Shields ...	29.72	44	SW	6	O	29.81	- .38	37	34	+ 1	WNW	3	C	2	45	34	0.01		
Spurn Head ...	29.87	36	SW	6	O	29.79	- .52	37	35	+ 6	NW	5	O	4	40	30	0.04		
York ...	29.92	39	S	2	T	29.89	- .42	38	35	+ 8	W	1	b	*	44	29	0.01		
Loughborough ...	30.05	35	SW	5	O	29.88	- .55	37	35	+ 16	W	3	b	*	42	21	0.02		
SCANDINAVIA.																			
Ardrossan ...	29.74	46	W	6	op	29.90	- .21	41	39	- 3	NW	4	b	3	47	39	-		
Malin Head ...	29.88	44	NW	5	op	29.98	- .13	42	40	- 2	NNW	5	bcp	4	47	41	0.08		
Mullaghmore ...	30.00	47	WNW	5	cm	30.10	- .15	44	41	+ 1	NW	6	cq, p	4	47	42	0.13		
Belmullet ...	30.08	47	NW	4	om	30.17	- .11	44	43	- 2	NNW	2	O	*	48	42	0.08		
Donaghadee ...	29.87	48	NNW	7	O	29.99	- .24	42	39	+ 3	NW	5	C	4	49	38	0.03		
SCANDINAVIA.																			
Liverpool (Bidston) ...	29.95	40	WSW	5	O	29.93	- .43	41	38	+ 9	WNW	5	O	5	44	32	0.05		
Holyhead ...	30.01	43	SW	6	q, r, m	29.97	- .39	43	40	+ 6	NNW	7	b, c, q	6	46	37	0.06		
Parsonstown ...	30.07	46	SW	2	O	30.15	- .23	40	38	+ 4	NW	1	O	*	47	35	0.02		
Valencia ...	30.22	48	W	3	rm	30.24	- .22	47	44	+ 9	N	4	O	3	49	37	0.06		
Roche's Point ...	30.17	47	W	4	C	30.17	- .28	44	42	+ 9	NNW	4	C	3	48	35	0.01		
SCANDINAVIA.																			
Pembroke (St. Ann's Hd.) ...	30.14	44	WSW	5	O	30.03	- .40	44	41	+ 11	NNW	5	bc	4	46	32	0.13		
Scilly ...	30.30	41	WNW	4	O	30.01	- .43	41	39	+ 13	NNW	2	C	1	43	27	0.07		
Prawle Point ...	30.27	34	WSW	3	bc	29.98	- .43	44	42	+ 19	NW	4	op, q, m	3	44	23	0.07		
Jersey (St. Aubin's) ...	30.32	32	NE	1	bc	29.95	- .50	42	40	+ 15	N	3	C	5	42	25	0.10		
Hurst Castle ...	30.24	34	W	5	C	29.95	- .50	42	40	+ 15	N	3	C	5	42	25	0.10		
SCANDINAVIA.																			
Dungeness ...	30.22	30	W	4	bc	29.80	- .63	37	35	+ 22	NW	4	C	3	37	14	0.15		
London ...	30.19	30	SW	1	C	29.86	- .58	39	37	+ 20	NW	3	b	*	41	18	0.02		
Oxford ...	30.08	34	SW	3	O	29.91	- .54	39	36	+ 19	NW	4	b	*	41	20	0.01		
Cambridge ...	30.09	33	SW	2	O	29.86	- .57	37	35	+ 16	NNW	2	C	*	40	19	0.01		
Yarmouth ...	30.09	29	WSW	3	C	29.74	- .64	36	35	+ 9	NW	4	cm	4	36	25	0.05		
SCANDINAVIA.																			
Cuxhaven ...	30.16	28	SW	5	O	29.48	- .83	29	29	+ 3	NW	5	S	*	30	?	-		
Berlin ...	30.15	24	NW	3	b	29.63	- .76	20	19	- 1	SW	4	C	*	30	16	-		
Wiesbaden ...	*	*	*	*	*	29.79	- .59	23	22	+ 1	E	2	S	*	25	18	-		
Munich ...	30.10	12	SE	1	b	29.85	- .43	12	11	+ 11	SW	5	b	*	23	1	-		
The Helder ...	29.99	33	SW	5	C	29.65	- .72	37	33	+ 7	NW	2	C	3	37	30	0.08		
SCANDINAVIA.																			
Brussels (9 a.m.) ...	*	*	*	*	*	?	?	31	31	+ 16	SW	3	O	*	31	?	0.04		
Cape Gris Nez ...	?	28	WSW	2	C	?	?	39	37	+ 20	NW	5	O	5	?	?	0.20		
Paris ...	30.33	28	E	2	b	29.94	- .42	26	26	+ 10	SW	3	O	*	34	?	-		
Brast ...	30.28	35	E	1	C	30.08	- .28	41	38	+ 13	NW	4	T	3	50	?	0.59		
Lorient ...	30.30	33	NE	2	bc	30.06	- .30	42	40	+ 18	WNW	5	O	4	?	?	-		
SCANDINAVIA.																			
Rochefort ...	30.28	35	NE	5	b	30.17	- .11	36	36	+ 14	W	4	O	?	41	21	-		
Belfort ...	30.15	31	N	1	b	30.10	- .16	24	21	+ 8	NNW	3	bc	*	37	?	-		
Lyons ...	29.83	43	Z	0	C	29.71	- .33	35	27	+ 4	E	4	b	3	52	?	-		
Nice ...	30.01	39	NW	5	b	30.06	- .04	37	29	+ 6	W	5	b	*	44	?	-		
Perpignan ...	30.17	37	ENE	3	b	30.23	+ .07	32	30	+ 10	S	3	O	2	41	?	-		
Biarritz ...	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	-	
SCANDINAVIA.																			
Corunna ...	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	-	
Lisbon ...	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	-	

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

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



# WEATHER CHARTS

for 8 a.m. on Wednesday, 5<sup>th</sup> March

1890.

## 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:

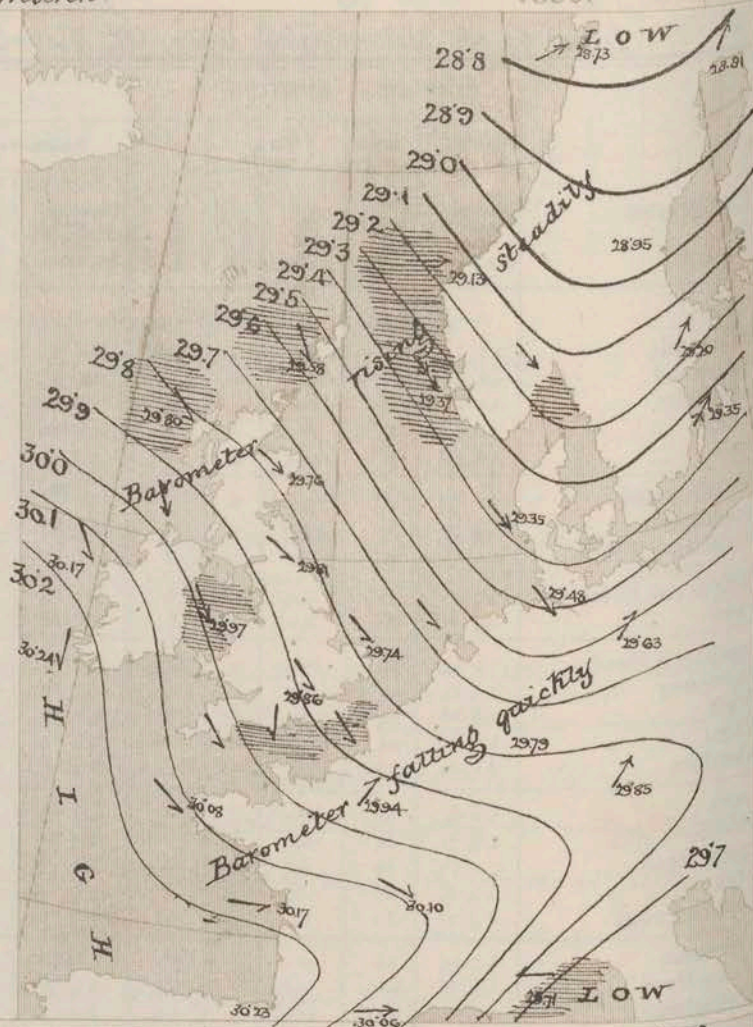
▨ = Rough. ▨ = High.

### MEAN HEIGHT OF THE BAROMETER

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

During the 15 Years: 1871—1885.

STATIONS.	MEAN READINGS.
Sumburgh Head	29.751
Stornoway	29.779
Wick	29.797
Nairn	29.815
Aberdeen	29.830
Leith	29.862
Shields	29.896
York	29.925
Loughborough	29.948
Androssan	29.876
Donaghadee	29.892
Holyhead	29.919
Liverpool	29.925
Parsonstown	29.940
Valencia	29.938
Roche's Point	29.941
Pembroke	29.944
Scilly	29.960
Jersey	29.971
Hurst Castle	29.966
Dover	29.955
LONDON	29.967
Oxford	29.966
Cambridge	29.967
Yarmouth	29.938





# GENERAL SITUATION AT 8 A.M.

## PRESSURE

Highest, 30.2 in. and upwards over the Bay of Biscay, and the southwest of Ireland.  
 Lowest, 28.8 in. and less, in a depression lying over the north of Scandinavia. A trough of "V-shaped" secondary disturbances is passing across Sweden and Denmark.  
 Gradients moderate.  
 Barometer rising in the north and west, but falling elsewhere — quickly in Sweden and Denmark.

## TEMPERATURE

Highest, 47° at Valencia, 44° at Mullaghmore, Belmullet, Rochepoint, Lismore and Jersey, and 43° at Holyhead.  
 Lowest, 12° at Munich, 20° at Berlin, 23° at Minsk, 24° at Lyons, 26° at Paris, and 27° at Sumburgh Head.  
 At Sumburgh Head the thermometer has fallen 19° since yesterday, while in London it has risen 20° and at Loughmoe 22°.

## WIND

Moderate to strong from the NW<sup>nd</sup> over our Islands, the north of France, and the eastern shores of the North Sea.  
 SW<sup>ly</sup> over Sweden and Germany, with a gale at Wiesbaden. W<sup>ly</sup> in the south of France.  
 A fresh to strong gale from the NW<sup>nd</sup> was experienced in Scotland yesterday.

## WEATHER

Fine over the greater part of England, but cloudy or overcast elsewhere, with snow at several of the Scandinavian stations as well as at Sumburgh Hd., Aberdeen, and Paris.  
 Snow sleet or cold rain has fallen in most parts of Northern Europe.

## SEA

Rough on our north and northwest coasts, but moderate to smooth elsewhere.

## PROBABLE CHANGES IN SYSTEM NOW PREVALENT

A tendency is shown for the passage across our Islands of small shallow depressions from the northward or northwardward and changeable showery weather is probable in nearly all districts. The colder weather which has set in over Scotland will probably extend southwards over England.

# FORECASTS

For the 24 hours ending at NOON on 6<sup>th</sup> MARCH 1890.

## DISTRICTS.

## FORECASTS.

0	SCOTLAND NORTH	NW <sup>ly</sup> and W <sup>ly</sup> winds, varying in strength; changeable, some snow showers.
1	SCOTLAND EAST	
2	ENGLAND N.E.	NW <sup>ly</sup> winds, force doubtful; fair at first; unsettled later and colder, possibly snow showers.
3	ENGLAND EAST	
4	MIDLAND COUNTIES	
5	ENGLAND SOUTH	

## DISTRICTS.

## FORECASTS

6	SCOTLAND WEST	NW <sup>ly</sup> winds, fresh or strong; squally, some cold showers.
7	ENGLAND N.W.	
8	ENGLAND S.W.	
9	IRELAND NORTH	NW <sup>ly</sup> winds, moderate or fresh; cloudy, some showers.
10	IRELAND SOUTH	

## WARNINGS

The Signals were hoisted yesterday on all but our extreme southern coasts.

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



# YESTERDAY'S 2 P.M. REPORTS.

	BAR:	THER:		WIND		WEA.	SEA		BAR:	THER:		WIND		WEA.	SEA
		D.	W.	D.	F.					D.	W.	D.	F.		
Skudesnaes ...	29.38	42	41	SW	8	r	6	Holyhead ...	30.16	42	40	SW	5	ogm	4
Sumburgh Head ...	29.17	39	39	W	8	r	7	Valencia ...	30.31	48	45	WSW	4	o	4
Stornoway ...	29.57	47	45	W	7	bc	6	Scilly ...	30.35	40	36	WSW	4	c	4
Aberdeen ...	29.54	52	47	SW	6	cq u	5	Jersey ...	30.39	35	31	E	3	o	3
Shields ...	29.94	42	39	SW	4	o	2	Dungeness ...	30.32	32	32	N	2	bc	1
Ardrossan ...	29.86	45	45	WSW	5	r	5	London ...	30.28	36	34	SW	1	c	3
Mulin Head ...	29.40	47	47	W	6	or	4	Yarmouth ...	30.24	32	31	WSW	3	c	3
Mullaghmore ...	30.06	46	46	SW	6	o d	4	Rochefort ...	30.30	37	37	CNE	5	o	?
Belmullet ...	30.03	48	48	W	6	o	*								

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

Weather in morning fine and bright over nearly the whole of the Continent and the southern half of England, very unsettled over Norway and the northern parts of our Islands, with rain at many stations and snow at Aberdeen. Unsettled and rainy over the southeastern parts of the Mediterranean also. Snow, sleet, or cold rain falling later in most parts of our Islands, and still larger quantities at Christiania and Brest.

Temperature highest (1.) 58° at Malta, 50° at Brindisi, and between 40° and 50° on the southern and eastern shores of the Mediterranean generally; (2.) 48° at Stornoway and Wick, and above 40° over Scotland, the north of Ireland, and west of Norway. Much lower elsewhere, hard frost being reported over almost all inland parts of Europe and the British Isles, lowest morning values 1° F. at Munich, 4° at Moscow, 9° at Kiev, 13° at Chateau, 15° at Breslau, Münster, and Dungeness, 16° at Paris, and 19° in London. Changing very fitfully over the British Isles later, rising over France.

Wind E<sup>ly</sup> to NE<sup>ly</sup> over Southern Europe, and blowing strongly in many places — a moderate gale at Catania, light and variable over the southern parts of our Islands, NW<sup>ly</sup> over Central Europe; W<sup>ly</sup> and SW<sup>ly</sup> over the north of the British Isles and over Northern Europe, and blowing a gale in several places. Gale subsequently spreading southwards over Scotland.

Barometer highest, 30.3 ins: to nearly 30.5 ins: over the south of Russia, Central Europe, the Netherlands, and north of France, and the greater part of England and Ireland; lowest 28.9 ins: and less, in a large depression approaching Norway from the northward, 29.6 ins: and less, in another depression off the Tunisian coast. Barometer falling fast over Northwestern and Northern Europe later and northern depression spreading southwards over North Sea.

### EXPLANATION OF COLUMNS GIVEN ON PAGE 1.

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

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

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

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



# DAILY WEATHER REPORT.

for

Thursday, 6<sup>th</sup> March,

1890.

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

Issued by the Meteorological Office, 63, Victoria Street, London. R. H. SCOTT, Secretary.																	
STATIONS.	YESTERDAY EVENING.					8 A.M. TO DAY.										PAST 24 HOURS.	
	BAROM.  Reading at 32° F. and Sea Level.	TEMP.  Dry.	WIND.		Weather.	BAROMETER.		SHADE TEMP.			WIND.		Weather.	Sea. (0 to 4.)	SHADE TEMP.		Amount of Rainfall.
			Force. (0 to 12.)	Dirac.		Reading at 32° F. and Sea Level.	Difference from 8 a.m. yesterday.	Dry.	Wet.	Difference from 8 a.m. yesterday.	Dirac.	Force. (0 to 12.)			Max.	Min.	
SCANDINAVIA.																	
Haparanda ...	29.01	26	SW	2	bc	29.08	+ .27	23	23	- 9	SSE	2	0	*	34	?	0.04
Hernösand ...	29.13	21	Z	0	b	29.10	+ .15	15	14	- 17	Z	0	0	*	41	?	?
Stockholm ...	29.12	28	S	3	S	29.04	- .16	25	24	- 6	NW	2	0	*	36	?	0.08
Wisby ...	29.13	27	S	4	S	29.06	- .29	30	28	0	WNW	4	bc	*	34	25	0.16
Bodö ...	28.92	27	WSW	6	c	28.97	+ .24	24	?	- 4	WSW	4	c	2	28	21	-
Christiansund	29.21	25	WNW	8	S	29.12	- .01	26	25	- 1	SW	6	S	6	?	23	0.28
Skudesnaes ...	29.39	28	NNW	7	S	29.22	- .15	31	29	0	SSE	4	S	4	?	21	-
Christiania Fjord (Færder)	29.24	30	WNW	5	c	29.23	+ .13	23	20	- 12	NW	4	0	2	36	23	-
Skagen (The Seaw)	29.25	30	NNE	1	b	29.23	+ .10	27	24	- 5	N	1	0	3	32	25	-
Fanö ...	29.43	28	NW	4	c	29.35	- .00	29	29	- 2	SW	1	c	*	34	23	0.04
Sumburgh Head	29.46	29	NNE	1	0	29.10	- .48	40	36	+ 13	WNW	6	bc	5	40	24	0.17
Stornoway ...	29.58	46	NNE	1	r	29.53	- .27	43	41	+ 3	NW	5	bc	5	48	37	0.45
Wick ...	29.50	35	N	2	c	29.36	- .34	42	39	+ 10	NW	6	0	3	42	30	0.25
Nairn ...	29.53	46	WNW	4	0	29.48	- .32	42	41	+ 5	WSW	4	0	3	46	37	0.06
Aberdeen ...	29.47	45	W	6	cqps	29.40	- .36	43	39	+ 9	WNW	8	bc	5	46	34	0.11
Leith ...	29.59	47	W	4	bc	29.52	- .32	47	43	+ 7	W	4	0	*	49	38	-
Shields ...	29.66	43	WNW	5	c	29.50	- .31	47	43	+ 10	WNW	4	c	4	49	35	-
Spurn Head ...	29.72	43	W	6	0	29.56	- .23	45	43	+ 8	W	6	bc	5	45	36	-
York ...	29.77	44	W	3	c	?	?	47	45	+ 9	W	3	bc	*	49	37	-
Loughborough	29.87	44	WNW	3	0	29.72	- .16	48	45	+ 11	WNW	5	cq	*	48	37	-
BRITISH ISLANDS.																	
Ardrossan ...	29.70	48	WNW	6	bcq	29.59	- .31	46	45	+ 5	NW	7	bcq	5	48	40	-
Malin Head ...	29.85	46	WNW	5	oqpm	29.72	- .26	45	44	+ 3	NW	6	oq p	4	47	42	0.05
Mullaghmore ...	29.99	47	WNW	5	oqpm	29.90	- .20	47	46	+ 3	WNW	6	oq p	5	49	43	0.02
Belmullet ...	30.06	49	NW	4	0	29.98	- .19	49	48	+ 5	WNW	5	bc	*	50	43	0.12
Donaghadee ...	29.87	48	NW	5	0	29.76	- .23	48	46	+ 6	NW	6	c	4	50	41	0.01
Liverpool (Bidston)	29.87	43	W	6	c	29.74	- .19	45	43	+ 4	W	7	0	5	45	40	0.01
Holyhead ...	29.95	45	WSW	4	c q	29.86	- .11	47	45	+ 4	W	4	c	4	48	42	0.02
Parsonstown ...	30.05	47	Z	0	0	29.98	- .17	46	45	+ 6	Z	0	c	*	49	39	0.02
Valencia ...	30.20	49	WNW	4	oq p	30.14	- .10	49	47	+ 2	NW	5	oq p	4	50	46	0.04
Roche's Point...	30.13	47	WNW	4	c	30.04	- .13	49	46	+ 5	NW	4	c	4	49	43	-
Pembroke (St. Ann's Hd.)	30.06	45	NW	4	bc	29.96	- .07	47	45	+ 3	NW	4	b	4	47	43	-
Seilly ...	30.16	48	NW	5	m	30.07	- .01	48	46	+ 4	N	5	c	?	52	?	-
Prawle Point ...	30.05	43	NW	2	c	30.00	- .01	45	44	+ 4	WNW	3	bc	2	49	39	0.02
Jersey (St. Aubin's)	30.03	46	WNW	3	cqpm	30.01	+ .03	47	45	+ 3	NW	3	bc	3	49	41	0.01
Hurst Castle ...	29.98	44	NNE	2	oq	29.89	- .06	45	44	+ 3	NW	5	c	4	47	38	-
Dungeness ...	29.89	40	WNW	2	c	29.78	- .02	42	41	+ 5	W	3	c	2	44	36	-
London ...	29.90	40	WSW	2	bc	29.76	- .10	46	43	+ 7	WNW	3	0	*	46	38	-
Oxford ...	29.92	38	WSW	3	b	29.82	- .09	46	43	+ 7	SW	4	0	*	46	37	-
Cambridge ...	29.87	40	W	1	c	29.71	- .15	47	45	+ 10	W	2	0	*	47	35	-
Yarmouth ...	29.80	38	SSE	3	c	29.61	- .13	44	43	+ 8	WNW	4	cm	4	44	34	0.04
GERMANY & HOLLAND.																	
Cuxhaven ...	29.57	32	NW	5	0	29.44	- .04	32	32	+ 3	WSW	2	S	*	32	?	-
Berlin ...	29.49	29	W	3	r	29.38	- .25	30	29	+ 10	SW	2	S	*	34	19	0.20
Wiesbaden ...	*	*	*	*	*	29.58	- .21	36	30	+ 13	W	3	0	*	36	?	0.16
Munich ...	29.75	24	W	6	S	29.70	- .15	25	25	+ 13	SW	8	S	*	30	12	0.04
The Helder ...	29.69	36	WSW	3	r	29.52	- .13	38	37	+ 1	W	1	f	2	41	34	0.16
FRANCE AND BELGIUM.																	
Brussels (9 a.m.)	*	*	*	*	*	29.69	?	40	39	+ 9	W	3	0	*	40	?	0.16
Cape Gris Nez	?	39	WNW	3	c	?	?	42	41	+ 3	NW	4	0	4	43	39	-
Paris ...	29.94	39	N	1	0	29.91	- .03	39	37	+ 13	W	1	0	*	43	?	-
Brest ...	30.11	45	N	3	0	30.07	- .01	46	45	+ 5	N	3	0	3	50	?	-
Lorient ...	30.06	46	WSW	3	0	30.08	+ .02	45	44	+ 3	WNW	3	b	2	46	44	-
Rochefort ...	30.06	44	WNW	4	0	30.13	- .02	43	41	+ 7	WNW	3	0	?	45	34	0.87
Belfort ...	29.84	27	NW	1	S	29.86	- .02	32	?	+ 7	E	2	S	*	32	20	0.08
Lyons ...	30.02	26	E	1	S	30.08	- .02	28	25	+ 4	W	1	c	*	33	?	0.04
Nice ...	29.89	40	E	2	b	29.78	+ .07	39	32	+ 4	E	4	b	2	50	34	-
Perpignan ...	29.98	41	NW	4	0	30.04	- .02	41	37	+ 4	NW	4	b	*	44	?	-
Biarritz ...	30.14	45	WNW	5	0	30.14	- .09	42	39	+ 10	SSE	3	0	2	46	?	0.16
PENINSULA.																	
Corunna ...	*	*	*	*	*	30.08	+ .09	43	35	+ 4	NE	4	0	2	54	32	-
Lisbon ...	30.04	51	NE	4	b	30.08	+ .09	43	35	+ 4	NE	4	0	2	54	32	-

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

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



# WEATHER CHARTS

for 8 a.m. on Thursday, 6<sup>th</sup> March.

1890.

## 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:

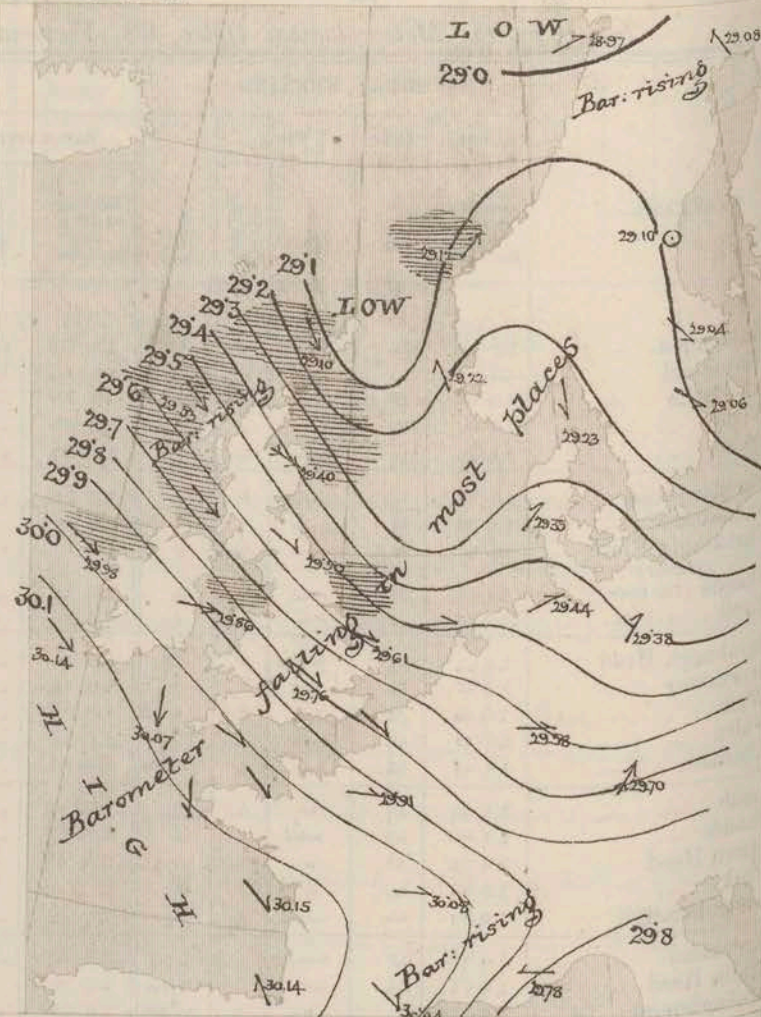
■ = Rough. ■ = High.

### MEAN HEIGHT OF THE BAROMETER

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

During the 15 Years: 1871—1885.

STATIONS.	MEAN READINGS.
Sumburgh Head	29.761
Stornoway	29.779
Wick	29.797
Nairn	29.815
Aberdeen	29.830
Leith	29.802
Shields	29.896
York	29.935
Loughborough	29.948
Androsan	29.876
Doughdale	29.591
Holyhead	29.919
Liverpool	29.926
Parsonstown	29.940
Valencia	29.938
Roche's Point	29.941
Pembroke	29.944
Seilly	29.986
Jersey	29.971
Hurst Castle	29.906
Dover	29.956
LONDON	29.967
Oxford	29.966
Cambridge	29.957
Yarmouth	29.938



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

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

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

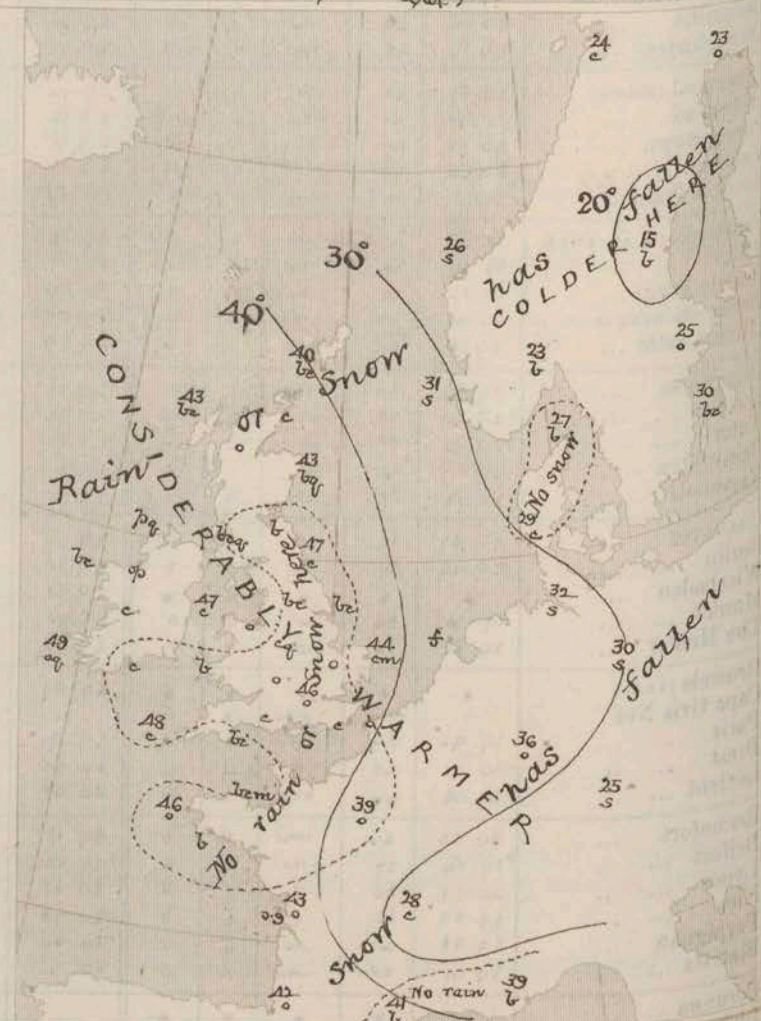
**RAINFALL**—A dotted line separates the districts in which rain has fallen, from those where there has been none. Falls of 0.5 in. or more, are quoted in figures.

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

(For the month of March.)

STATIONS.	TEMPERATURE.				RAINFALL (Inches.)
	Daily Max.	Daily Min.	at 8 a.m.	at 8 a.m.	
Sumburgh Head	42.6	34.0	38.6	37.1	2.02
Stornoway	44.0	34.4	39.2	38.0	3.87
Wick	44.7	35.9	39.1	37.2	1.97
Nairn	45.6	34.2	38.2	36.3	1.72
Aberdeen	45.4	34.7	38.9	36.8	2.24
Leith	48.2	34.6	39.7	37.9	1.36
Shields	45.9	35.4	39.6	38.0	1.60
York	48.0	38.7	38.0	37.1	1.03
Loughborough	49.0	34.3	39.5	37.7	1.47
Androsan	49.8	36.6	40.6	38.7	2.69
Doughdale	47.3	37.1	41.0	39.7	1.99
Holyhead	47.6	39.2	42.5	41.0	2.21
Liverpool	47.3	37.1	40.8	38.7	1.69
Parsonstown	50.1	35.5	41.2	39.6	2.35
Valencia	51.0	36.6	45.4	43.4	4.24
Roche's Point	50.2	40.9	45.5	42.1	3.71
Pembroke	47.1	39.5	42.5	40.8	2.45
Seilly	49.0	43.0	46.5	44.7	2.38
Jersey	49.0	40.5	44.7	42.7	2.32
Hurst Castle	48.6	37.7	41.0	40.7	1.89
Dover	46.0	37.8	41.6	39.9	1.86
LONDON	50.0	35.8	40.0	38.7	1.43
Oxford	49.5	35.2	39.4	37.9	1.62
Cambridge	50.6	33.4	39.2	37.7	1.33
Yarmouth	45.7	35.8	40.8	39.1	1.77

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





# GENERAL SITUATION. AT 8 A.M.

## PRESSURE

Highest, 30.1 in. and upwards over the Bay of Biscay, the west of France, and the extreme southwest of Ireland.  
Lowest, 29.0 in. and less, in the extreme north of Scandinavia, 29.1 in. and less, in a depression lying near the Shetlands.  
Gradients rather steep over the greater part of our Islands, but slight elsewhere.  
Barometer falling in most places — quickly in the Shetlands.

## TEMPERATURE

Highest, 43° at Belmullet, Valencia, and Rochepoint, and 48° at Loughborough, Donaghadee, and Scilly.  
Lowest, 15° at Hernösand, 23° at Farsen and Kaparanda, 24° at Rode, 25° at Stockholm and Munich, and 26° at Christiansund.  
A considerable rise has taken place over our Islands, France, and Germany.

## WIND

Northwesterly or Westerly in nearly all parts of the United Kingdom and France; strong to a gale over the northern parts of our Islands.  
Southerly or Southwesterly in the west of Norway and also in Germany, with a gale at Munich.  
Variable in Denmark and the north of Sweden.

## WEATHER

Fair over the greater part of the United Kingdom, as well as in Sweden and Denmark, but showery in the north of Ireland.  
Snow is falling at most of the German stations and also in the west of Norway.  
Rain fell yesterday at many of our western and northern stations.

## SEA

Rather rough on many parts of our northwestern, northern, and eastern coasts.

## PROBABLE CHANGES IN SYSTEM NOW PREVALENT

The new depression, which has appeared near the Shetlands seems likely to occasion some increase of wind from the West or N.W. in many parts of the Kingdom, with equally showery weather.

# FORECASTS

For the 24 hours ending at NOON on 7<sup>th</sup> March 1890.

DISTRICTS.	FORECASTS.	DISTRICTS.	FORECASTS.
<div> <div>↑</div> <div>0</div> <div>SCOTLAND NORTH</div> </div> <div> <div>↑</div> <div>1</div> <div>SCOTLAND EAST</div> </div> <div> <div>↑</div> <div>2</div> <div>ENGLAND N.E.</div> </div> <div> <div>↑</div> <div>3</div> <div>ENGLAND EAST</div> </div> <div> <div>4</div> <div>MIDLAND COUNTIES</div> </div> <div> <div>5</div> <div>ENGLAND SOUTH</div> </div>	<div> <div> <div> <div>↑</div> <div>0</div> </div> <div> <div> <div>↑</div> <div>1</div> </div> </div> <div> <div> <div>↑</div> <div>2</div> </div> <div> <div> <div>↑</div> <div>3</div> </div> </div> <div> <div> <div>↑</div> <div>4</div> </div> <div> <div> <div>↑</div> <div>5</div> </div> </div> </div> </div></div></div>	<div> <div> <div> <div>↑</div> <div>6</div> </div> <div> <div> <div>↑</div> <div>7</div> </div> </div> <div> <div> <div>↑</div> <div>8</div> </div> <div> <div> <div>↑</div> <div>9</div> </div> </div> <div> <div> <div>↑</div> <div>10</div> </div> <div> <div> <div>↑</div> <div>11</div> </div> </div> </div> </div></div></div>	<div> <div> <div> <div>↑</div> <div>6</div> </div> <div> <div> <div>↑</div> <div>7</div> </div> </div> <div> <div> <div>↑</div> <div>8</div> </div> <div> <div> <div>↑</div> <div>9</div> </div> </div> <div> <div> <div>↑</div> <div>10</div> </div> <div> <div> <div>↑</div> <div>11</div> </div> </div> </div> </div></div></div>

No. 0.—The South Cone, point downwards (↑), means that gales, or strong winds, are probable at first from the Southward (from S.E. round by S. to N.W.). Should it appear likely that a gale beginning from between W. and N.W. is likely to veer towards N. or N.E., the North Cone is hoisted in preference to the South Cone.  
The North Cone, point upwards (↓), means that gales, or strong winds, are probable at first from the Northward (from N.W. round by N. to S.E.). Should it appear likely that a gale beginning from between E. and S.E. is likely to veer towards S. or S.W., the South Cone is hoisted in preference to the North Cone.



# YESTERDAY'S 2 P.M. REPORTS.

	BAR:	THER:		WIND		WEA.	SEA		BAR:	THER:		WIND		WEA.	SEA
		D.	W.	D.	F.					D.	W.	D.	F.		
Skudesnaes ...	29.40	31	27	NW	8	S	5	Holyhead ...	30.02	47	44	NW	5	0	3
Sumburgh Head ...	29.50	30	30	N	2	S	5	Valencia ...	30.25	50	46	NNW	3	om	
Stornoway ...	29.58	47	47	W	6	T	6	Scilly ...							
Aberdeen ...	29.62	40	38	S	2	OT	4	Jersey ...	30.03	48	44	NNW	3	C	3
Shields ...	29.78	47	39	NW	4	C	3	Dungeness ...	29.89	43	38	N	4	C	3
Ardrossan ...	29.81	48	47	WNW	5	bc	4	London ...	29.92	44	44	NW	3	C	3
Malin Head ...	29.90	46	45	W	5	0	4	Yarmouth ...	29.83	39	38	NW	3	cqrs	3
Mullaghmore ...	30.05	48	46	WSW	5	om	4	Rochefort ...	30.13	41	41	W	5	T	?
Belmullet ...	30.12	50	49	W	4	0	*								

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

Weather fine over the greater part of Russia, Central Europe, England, France, and Spain, cloudy or overcast elsewhere, with snow in several parts of Scandinavia, sleet in the east of Scotland, and rain on our extreme northwest coasts. Rain at our northwestern and northern stations later, snow to the eastward of the North Sea and in several parts of France, but amounts generally small, and none of them above half an inch.

Temperature changing very fitfully over Northwestern Europe and especially over the British Isles, rising over the Baltic. Morning readings exceeding 50° on the southern shores of the Mediterranean only, but ranging from 40° to 47° over the western and south-western parts of our Islands; very low over Central and Eastern Europe, lowest of all being -3° F at Cracow, +6° at Kiev and Moscow, 7° at Warsaw and Lemberg, 8° at Breslau and Vienna, 12° at Munich and Prague, 20° at Berlin, 26° at Paris. Rising to 52° at Scilly, and to between 40° and 50° over the British Islands, France and Germany during the day.

Wind N<sup>1</sup> to NW<sup>1</sup> over the British Isles, North Sea, and Denmark, moderate to strong in force and a gale at Skudesnaes and Holyhead. NW<sup>1</sup> strong to a gale over the northern parts of the Mediterranean, W<sup>1</sup> over France, SW<sup>1</sup> to S<sup>1</sup> strong to a gale over the Baltic, very light and variable over Austria and Southern Russia. Wind backing westward in Scotland later, and increasing in force.

Barometer highest 30.0 ins. to 30.2 ins. over Ireland, the Bay of Biscay, and north of Spain, 30.0 ins. to 30.1 ins. and more over Hungary and the south of Russia; lowest 28.8 ins. and less, in a depression having its centre over Lapland, 28.1 ins. and less, in a "V" shaped secondary over Sweden and Norway, 28.5 ins. and less, over the southwest of Italy. New small depression (secondary to that over Lapland) advancing over Scotland later, but tending to fill up.

### EXPLANATION OF COLUMNS GIVEN ON PAGE 1.

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

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

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

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# DAILY WEATHER REPORT.

for *Friday, 7<sup>th</sup> March,* 1890.  
 Issued by the Meteorological Office, 63, Victoria Street, London. *R. H. SCOTT, Secretary.*

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

STATIONS.	YESTERDAY EVENING.					8 A.M. TO DAY.										PAST 24 HOURS.		
	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.	Dirce.	Force. (0 to 12.)		Reading at 32° F. and Sea Level.	Difference from 8 a.m. yesterday.	Dry.	Wet.	Difference from 8 a.m. yesterday.	Dirce.	Force. (0 to 12.)			Max.	Min.		
SCANDINAVIA.																		
Haparanda ...	29.08	19	Z	0	0	28.98	-10	11	10	-12	Z	0	c	*	28	?	0.24	
Hernösand ...	29.04	15	Z	0	0	28.92	-12	4	4	-11	Z	0	b	*	37	?	-	
Stockholm ...	29.15	17	Z	0	0	29.03	-12	14	13	-11	S	2	b	*	30	?	-	
Wisby ...	29.15	28	N	4	0	29.09	-6	28	24	-5	S	4	bc	*	32	23	0.04	
Bodö ...	28.97	23	E	2	0	28.85	-12	18	16	-6	E	2	b	1	25	16	-	
Christiansund ...	28.91	37	SE	4	c	28.60	-32	29	28	+3	SW	8	S	5	?	?	0.24	
Skudesnaes ...	29.15	33	NW	5	bc	28.84	-31	35	32	+4	W	8	c	5	?	30	-	
Christiania Fjord (Færder) ...	29.18	28	WSW	4	0	28.88	-30	30	30	+7	WNW	4	S	2	?	?	-	
Skagen (The Scaw) ...	29.20	26	WSW	1	0	28.90	-30	33	33	+6	S	3	0	3	33	25	0.04	
Fanö ...	29.36	33	NW	4	0	29.17	-19	37	36	+1	W	5	c	*	37	28	0.04	
Sumburgh Head ...	29.16	38	NW	6	c	29.06	-10	29	29	-11	WNW	6	S	6	41	26	0.12	
Stornoway ...	29.42	42	W	4	T	29.34	-8	38	37	-5	NW	5	0	4	46	34	0.35	
Wick ...	29.31	41	WNW	5	c	29.27	-4	34	32	-8	NW	5	OTS p	4	42	32	0.20	
Nairn ...	29.45	41	W	5	0	29.35	-10	38	37	-4	WNW	4	bc	2	47	37	0.04	
Aberdeen ...	29.45	42	W	6	bcu	29.34	-11	39	38	-4	W	4	b	3	48	38	0.01	
Leith ...	29.60	46	W	4	c	29.43	-17	42	40	-5	WSW	2	bc	*	53	40	-	
Shields ...	29.61	48	WNW	3	bc	29.48	-13	44	41	-3	W	3	c	3	54	42	-	
Spurn Head ...	29.67	44	WSW	3	c	29.58	-9	46	44	+1	W	6	cm	3	48	41	-	
York ...	29.70	48	W	3	b	29.57	-13	49	46	+2	W	4	0	*	54	41	-	
Loughborough ...	29.79	46	WNW	3	bc	29.71	-8	47	45	-1	W	4	oqp	*	52	43	0.01	
BRITISH ISLANDS.																		
Ardrossan ...	29.68	45	W	4	c	29.48	-20	42	42	-4	WNW	2	T	2	49	42	0.08	
Malin Head ...	29.70	46	W	6	oqp	29.48	-22	46	46	+1	WSW	6	od	4	47	42	0.10	
Mullaghmore ...	29.87	48	W	5	cm	29.61	-26	47	45	0	WSW	6	om	5	50	46	0.05	
Belmullet ...	29.96	49	WNW	4	0	29.73	-23	48	46	-1	W	5	c	*	50	47	0.05	
Donaghadee ...	29.78	48	NW	6	c	29.60	-18	49	47	+1	WNW	6	0	4	52	45	0.01	
Liverpool (Bidston) ...	29.80	44	W	5	0	29.66	-14	46	44	+1	WSW	7	0	5	47	43	-	
Holyhead ...	29.85	46	WNW	4	oq	29.74	-11	47	45	0	WSW	5	cq	5	52	46	0.01	
Parsonstown ...	29.97	49	SW	1	c	29.83	-14	45	43	-1	NW	2	bc	*	54	44	-	
Valencia ...	30.13	50	WNW	4	cqm	29.97	-16	48	45	-1	WSW	4	0	4	54	45	0.01	
Roche's Point ...	30.05	50	NW	4	c	29.94	-11	47	44	-2	W	4	bc	4	53	44	0.01	
Pembroke (St. Ann's Hd.) ...	29.95	47	W	4	bc	29.90	-5	46	45	-1	W	5	b	5	48	45	0.01	
Scilly ...	30.06	48	NW	5	0	30.03	-3	48	47	0	NW	5	c	?	54	?	-	
Prawle Point ...	30.00	46	W	4	0	29.97	-3	46	45	+1	W	4	cm	2	56	42	0.01	
Jersey (St. Aubin's) ...	30.01	48	W	4	cqm	30.01	0	47	45	0	WNW	3	bc	3	51	41	0.01	
Hurst Castle ...	29.92	49	NW	4	c	29.91	-1	45	44	0	WNW	5	om	4	54	42	-	
Dungeness ...	29.79	50	WNW	3	c	29.81	+2	43	40	+1	W	4	c	3	54	39	0.02	
London ...	29.82	49	W	2	c	29.80	-2	44	42	-2	W	2	b	*	54	40	-	
Oxford ...	29.86	44	WSW	4	bc	29.82	-4	45	44	-1	WSW	4	0	*	55	41	-	
Cambridge ...	29.79	44	W	1	b	29.73	-6	47	44	0	SW	2	c	*	56	36	-	
Yarmouth ...	29.73	46	NW	1	c	29.63	-10	46	44	+2	NW	5	c	4	52	37	0.01	
GERMANY & HOLLAND.																		
Cuxhaven ...	29.41	36	W	6	T	29.40	-1	36	36	+4	W	6	T	*	37	?	0.20	
Berlin ...	29.35	32	SSW	3	S	29.49	+14	35	34	+5	SW	3	0	*	36	?	0.08	
Wiesbaden ...	*	*	*	*	*	29.76	+31	40	38	+4	W	3	0	*	43	36	0.16	
Munich ...	29.68	34	SW	6	S	29.82	+14	35	34	+10	SW	6	T	*	?	25	0.04	
The Helder ...	29.67	38	W	2	b	29.52	-15	41	40	+3	W	5	c	4	41	37	0.04	
FRANCE AND BELGIUM.																		
Brussels (9 a.m.) ...	*	*	*	*	*	29.78	+26	41	40	-1	WSW	3	0	*	49	37	0.08	
Cape Gris Nez ...	?	53	W	4	0	?	?	41	39	-1	W	5	b	5	48	41	-	
Paris ...	29.95	47	WNW	4	0	29.97	+2	42	41	+3	WSW	2	b	*	51	?	-	
Brest ...	30.13	49	NW	3	0	30.09	-4	49	47	+3	N	1	0	2	52	46	-	
Lorient ...	30.11	48	WNW	3	0	30.06	-5	46	45	+1	WNW	2	bc	2	50	43	-	
Rochefort ...	30.19	45	WNW	3	bc	30.15	-4	43	42	0	W	2	0	2	52	36	-	
Belfort ...	29.89	39	E	1	T	29.94	+5	41	32	+9	W	1	T	*	?	30	0.08	
Lyons ...	30.10	38	E	1	0	30.10	0	36	34	+8	WNW	1	T	*	45	?	-	
Nice ...	29.74	46	NNE	5	b	29.87	+13	39	34	0	E	5	b	1	55	37	-	
Perpignan ...	30.10	46	NW	4	b	30.12	+2	42	37	+1	W	2	b	*	53	39	-	
Biarritz ...	30.14	48	W	3	0	30.14	0	43	41	+1	SW	3	0	2	50	41	-	
Corunna ...	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	-
Lisbon ...	30.04	53	WNW	4	b	30.02	-2	44	40	+1	NE	4	b	2	61	43	-	

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

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



# WEATHER CHARTS

for 8 a.m. on

Friday, 7<sup>th</sup> March

1890.

## 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:

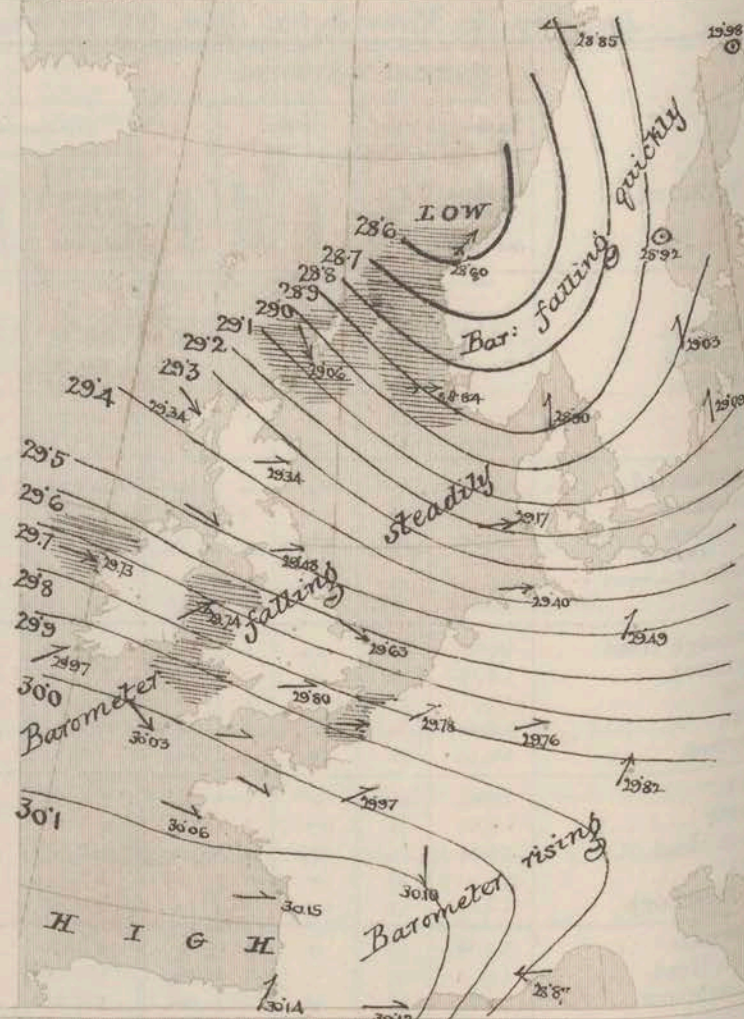
▨ = Rough. ▩ = High.

## MEAN HEIGHT OF THE BAROMETER

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

During the 15 Years: 1871-1885.

STATIONS.	MEAN READINGS.
Sumburgh Head	29.761
Stornoway	29.779
Wick	29.797
Nairn	29.815
Aberdeen	29.830
Leith	29.862
Shields	29.896
York	29.925
Loughborough	29.948
Ardrossan	29.876
Donaghadee	29.892
Holyhead	29.919
Liverpool	29.925
Parsonstown	29.940
Valencia	29.938
Rocha's Point	29.941
Pembroke	29.944
Sally	29.966
Jersey	29.971
Hurst Castle	29.966
Dover	29.955
LONDON	29.967
Oxford	29.960
Cambridge	29.957
Yarmouth	29.938



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

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

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

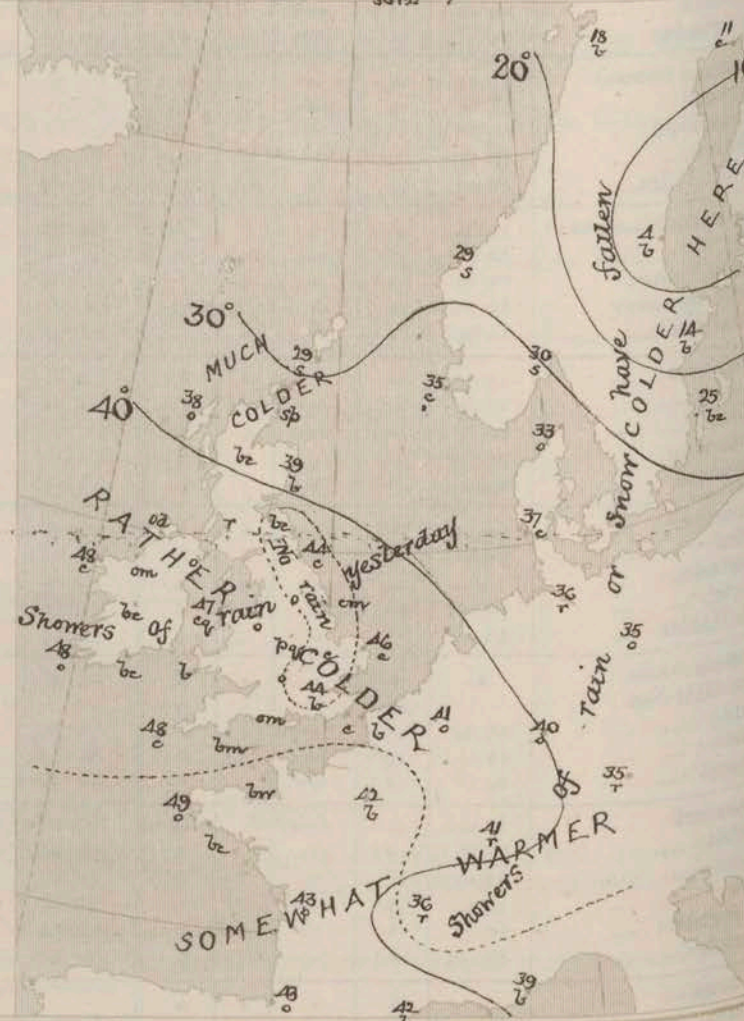
**RAINFALL**—A dotted line separates the districts in which rain has fallen from those where there has been none. Falls of 0.5 in. or more, are quoted in figures.

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

(For the month of March.)

STATIONS.	TEMPERATURE.				RAINFALL (Inches.)
	Daily Max.	Daily Min.	at 8 a.m. Dry.	Wet.	
Sumburgh Head	42.6	34.0	38.5	37.1	2.92
Stornoway	41.9	34.4	39.2	38.0	3.87
Wick	41.7	33.9	39.1	37.2	1.97
Nairn	45.6	34.2	38.2	36.3	1.72
Aberdeen	45.4	34.7	38.9	36.8	2.24
Leith	48.2	34.0	39.1	37.9	1.36
Shields	45.0	35.4	39.6	38.0	1.60
York	48.0	33.7	38.6	37.1	1.63
Loughborough	49.3	34.3	39.5	37.7	1.47
Ardrossan	48.8	36.6	40.5	38.7	2.59
Donaghadee	47.3	37.1	41.0	39.7	1.99
Holyhead	47.6	39.2	42.6	41.0	2.21
Liverpool	47.3	37.1	40.8	38.7	1.69
Parsonstown	50.1	35.6	41.2	39.6	2.35
Valencia	51.6	40.6	45.4	43.4	4.24
Rocha's Point	50.2	40.0	43.8	42.1	3.71
Pembroke	47.1	39.5	42.0	40.5	2.45
Sally	49.9	43.0	46.6	44.7	2.58
Jersey	49.0	40.6	44.7	42.7	2.82
Hurst Castle	48.3	37.7	41.6	40.7	1.80
Dover	46.0	37.8	41.0	39.9	1.80
LONDON	50.6	36.8	40.6	38.7	1.43
Oxford	49.3	35.2	39.4	37.9	1.52
Cambridge	50.6	33.3	39.2	37.7	1.33
Yarmouth	45.7	36.8	40.8	39.1	1.77

NOTE.—The Temperature means are for the 15 years 1871-85, the Rainfall means are mainly those for the 20 years 1869-85.





# GENERAL SITUATION AT 8 A.M.

## PRESSURE

Highest, 30.1 in. and upwards, over the Bay of Biscay, the north of Spain and the south of France.  
Lowest, 28.6 in. and less, in a depression the centre of which lay near Christianund.  
Gradient rather steep over North-western Europe, but slight elsewhere.  
Barometer falling in most places — quickly over Scandinavia.

## TEMPERATURE

Highest 48° at York, Donaghadee, and Brest, 48° at Belmullet, Klenica and Scilly, and 47° at Mullaghmore, Holyhead, Rocher Point, Loughborough, Cambridge and Wexford.  
Lowest, 4° at Helsingland, 11° at Haparanda, 14° at Stockholm, 18° at Bodø, 25° at Nisy, and 29° at Christianund and Sumburgh H<sup>d</sup>.  
During yesterday the thermometer rose to 55° at Oxford, and 56° at Hawke Point and Cambridge.

## WIND

Chiefly W<sup>ly</sup> or NW<sup>ly</sup>, but SW<sup>ly</sup> in Germany, and S<sup>ly</sup> in the south of Sweden.  
Strong in force at many of our western and northern stations; a fresh gale reported in the west of Norway.  
A strong to whole gale from the NW<sup>ly</sup> was experienced last night in the north of Scotland.

## WEATHER

Fine in many parts of our Islands and France, as well as in Sweden.  
Bull and unsettled in the northwest and north of our Islands, with snow or sleet in the north of Scotland and also at Christianund.  
Showers fell yesterday in many parts of the United Kingdom.

## SEA

Rough at Sumburgh Head, and rather rough on many parts of our western coasts, but moderate to smooth elsewhere.

## PROBABLE CHANGES IN SYSTEM NOW PREVALENT

The wind appears to be backing to the SW<sup>ly</sup> in the extreme west, and it is probable that a depression — subsidiary to the large disturbance in the far north — is advancing towards the Irish coasts. Increasing winds are therefore likely in the west and south of our Islands.

## FORECASTS

For the 24 hours ending at NOON on 8<sup>th</sup> March 1890.

### DISTRICTS.

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

### FORECASTS.

Wind backing to the SW<sup>ly</sup>, force doubtful at present; changeable, some rain or sleet.

Same as No 5.

W<sup>ly</sup> to SW<sup>ly</sup> winds, increasing in force; fair to squally and some rain.

### DISTRICTS.

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

### FORECASTS

Same as No 0 and 1.

SW<sup>ly</sup> to W<sup>ly</sup> or NW<sup>ly</sup> winds, increasing in force; squally, some rain.

### WARNINGS

The SOUTH CONE was hoisted last evening in districts 0, 1, 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		WEA.	SEA		BAR:	THER:		WIND		WEA.	SEA
		D.	W.	D.	F.					D.	W.	D.	F.		
Skudesnaes ...	29.16	30	29	E	4	S	4		Holyhead ...	29.85	47	45	NW	5	c p q
Sumburgh Head ...	29.21	37	36	NW	6	S	6		Valencia ...	30.12	52	50	WNW	5	c q
Stornoway ...	29.52	46	45	NW	4	bc	4		Scilly ...	30.05	51	49	NW	5	c
Aberdeen ...	29.49	47	39	WNW	8	bc	5		Jersey ...	30.03	49	46	W	3	0
Shields ...	29.60	53	43	NW	4	bc	4		Dungeness ...	29.76	52	49	WNW	4	0
Ardrossan ...	29.70	49	47	NW	4	C	4		London ...	29.78	54	46	WNW	4	0
Malin Head ...	29.73	46	43	NW	5	C	4		Yarmouth ...	29.63	52	47	NW	4	bc
Mullaghmore ...	29.89	48	45	WNW	6	om	4		Rocheport ...	30.20	48	45	WNW	3	bc
Belmullet ...	29.96	49	48	WNW	4	0	*								

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

Weather fine and bright over the Mediterranean and Spain, varying locally, but as a whole cloudy and changeable elsewhere. <sup>snow in places.</sup> Showers of snow later in Scotland and to the eastward of the North Sea, and very slight rain in many parts of Ireland and England, but with bright intervals.

Temperature risen in most places; above 50° in the morning at very few of the extreme southern stations, 40° to 49° over the British Islands and north and west of France, but below 40° almost everywhere else. That continued over northern, eastern and central Europe, northern Italy, and some part of France, and reaching as low as 4° at Moscow, <sup>13° at Riga,</sup> 15° at Kiev, and 18° at Kuesio, 20° at Uleaborg, 24° at Bodo and Cracow, 25° at Hermannstadt and Munich. Rising later to between 50° and 55° over England and many parts of France.

Wind W and NW over the British Islands and Western Europe, and blowing a gale at some northern and northwestern stations; S over Norway, Finland, and the Baltic Provinces — a gale at Hangö. Very variable in direction over Southern and Eastern Europe, and as a whole of little force. Not much change later.

Barometer highest 30.0 ins. to about 30.2 ins. over Spain, the west of France and the southwest of our Islands; 29.6 ins. to 29.9 ins. over Central Russia. Lowest 29.0 ins. and less, over Denmark, 29.1 ins. and less, near the Shetland Islands and also near Stockholm, 29.4 ins. and less, over the Black Sea, and 29.8 ins. and less over the Gulf of Genoa. Falling fast over the south of Russia and also over the Baltic. Changing irregularly in the north of our Islands later, rising in the south and over France.

### EXPLANATION OF COLUMNS GIVEN ON PAGE 1.

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

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

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

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for *Saturday, 8<sup>th</sup> March,* 1890.

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STATIONS.	YESTERDAY EVENING.					8 A.M. TO DAY.										PAST 24 HOURS.		
	BAROM.  Reading at 32° F. and Sea Level.	TEMP.  Dry.	WIND.		Weather.	BAROMETER.		SHADE TEMP.			WIND.		Weather.	Sea. (0 to 9.)	SHADE TEMP.		Amount of Rainfall.	
			Dir.	Force. (0 to 12.)		Reading at 32° F. and Sea Level.	Difference from 8 a.m. yesterday.	Dry.	Wet.	Difference from 8 a.m. yesterday.	Dir.	Force. (0 to 12.)			Max.	Min.		
SCANDINAVIA.																		
Haparanda ...	28.90	15	Z	0	c	28.95	-0.03	12	11	+1	S	2	0	*	23	7	0.08	
Hernösand ...	28.88	13	Z	0	b	28.97	+0.05	13	12	+9	Z	0	c	*	34	1	-	
Stockholm ...	28.77	30	SE	2	S	28.90	-0.13	27	26	+13	NW	2	S	*	34	9	0.04	
Wisby ...	28.88	32	NW	6	c	28.97	-0.12	31	28	+6	NW	6	c	*	34	21	0.08	
Bodö ...	28.86	18	ESE	2	b	28.83	-0.02	18	15	0	ESE	2	0	1	23	14	-	
BRITISH ISLANDS.																		
Christiansund	28.73	27	NW	8	S	28.98	+0.38	23	21	-6	SW	8	S	6	30	21	0.12	
Skudesnaes ...	29.10	30	NW	8	S	29.16	+0.32	28	26	-7	SSE	6	S	5	2	23	-	
Christiania Fjord (Færder)	28.88	33	NW	5	b	29.11	+0.23	27	22	-3	NW	5	b	3	36	27	-	
Skagen (The Scaw)	30.00	34	NW	5	0	29.16	+0.26	31	27	-2	N	4	b	5	36	30	-	
Fanö ...	30.22	33	Z	0	S	29.34	+0.17	33	31	-4	NW	3	b	*	39	32	0.04	
Sumburgh Head	29.15	28	Z	0	0	29.15	+0.09	27	25	-2	NE	1	c	3	32	26	0.09	
Stornoway ...	29.24	33	N	5	S	29.19	-0.15	28	28	-10	NW	2	c	3	38	22	0.50	
Wick ...	29.20	30	N	2	0	29.22	-0.05	27	26	-7	NW	1	b	1	36	26	0.24	
Nairn ...	29.27	33	E	1	S	29.24	-0.11	31	30	-7	Z	0	b	1	38	25	0.59	
Aberdeen ...	29.12	32	NE	5	OSy	29.28	-0.06	26	25	-13	NW	1	b	4	41	25	0.63	
GERMANY & HOLLAND.																		
Leith ...	29.13	45	WSW	6	T	29.29	-0.14	37	36	-5	W	1	om	*	48	34	0.10	
Shields ...	29.30	48	W	6	c	29.39	-0.09	38	36	-6	S	3	c	3	50	34	-	
Spurn Head ...	29.45	45	WSW	7	T	29.47	-0.11	38	37	-8	S	1	b	3	49	36	-	
York ...	29.44	48	W	5	0	29.46	-0.11	36	34	-13	SW	1	b	*	51	33	-	
Loughborough	29.60	48	WSW	5	c	29.51	-0.20	41	40	-6	Z	0	om	*	53	39	0.04	
FRANCE AND BELGIUM.																		
Ardrossan	29.21	47	WSW	5	T	29.29	-0.19	39	39	-3	SSW	2	T	2	47	37	0.31	
Malin Head ...	29.29	44	NW	7	cp	29.18	-0.30	38	38	-8	SSE	4	or	3	48	37	0.10	
Mullaghmore ...	29.45	48	WSW	7	ad	29.22	-0.39	44	40	-3	SSW	7	0	6	50	40	0.06	
Belmullet ...	29.50	49	W	7	ou	29.28	-0.45	43	42	-5	NW	8	op	*	51	40	0.20	
Donaghadee ...	29.38	48	W	5	T	29.85	-0.25	39	38	-10	WSW	4	0	3	52	36	0.02	
PENINSULA.																		
Liverpool (Bidston)	29.51	47	WSW	7	c	29.46	-0.20	43	40	-3	SSW	1	c	2	51	39	0.03	
Holyhead ...	29.57	47	WSW	4	cgp	29.45	-0.29	44	42	-3	SSW	3	c	3	51	40	0.05	
Parsonstown ...	29.62	48	SW	3	0	29.40	-0.43	45	44	0	SW	2	0	*	52	40	0.08	
Valecia ...	29.75	50	WSW	6	om	29.52	-0.45	50	48	+2	WSW	4	0	5	53	45	0.04	
Roche's Point...	29.75	49	W	4	c	29.51	-0.43	49	46	+2	W	4	b	4	54	45	-	
Pembroke (St. Ann's Hd.)	29.71	47	W	6	c	29.53	-0.37	47	46	+1	SW	6	ogp	6	49	46	0.03	
Scilly ...	29.90	48	W	5	cp	29.68	-0.35	48	48	0	WSW	5	T	4	55	46	0.01	
Prawle Point ...	29.86	46	W	5	c	29.68	-0.29	47	46	+1	SW	4	cm	3	51	44	-	
Jersey (St. Aubin's)	29.96	48	W	4	b	29.78	-0.23	46	44	-1	SW	5	ogm	4	51	45	-	
Hurst Castle ...	29.81	46	W	6	0	29.66	-0.25	46	45	+1	W	6	ogm	5	48	44	-	
FRANCE AND BELGIUM.																		
Dungeness ...	29.74	43	W	6	c	29.62	-0.19	43	43	0	W	6	c	4	47	42	-	
London ...	29.72	48	W	5	b	29.61	-0.19	45	43	+1	WSW	3	T	*	54	44	-	
Oxford ...	29.67	45	WSW	5	b	29.57	-0.25	46	45	+1	SW	4	oa	*	52	45	0.01	
Cambridge ...	29.62	47	WSW	3	c	29.53	-0.20	47	46	0	SW	1	or	*	58	43	-	
Yarmouth ...	29.57	48	W	5	b	29.49	-0.14	44	44	-2	W	2	rgf	4	51	43	0.04	
FRANCE AND BELGIUM.																		
Cuxhaven ...	29.48	36	W	5	T	29.42	+0.02	35	35	-1	NW	4	b	*	40	34	0.22	
Berlin ...	29.52	40	W	4	0	29.47	-0.02	42	39	+7	W	5	0	*	43	?	0.28	
Wiesbaden ...	*	*	*	*	*	29.47	+0.01	42	39	+2	SW	2	0	*	46	?	-	
Munich ...	29.93	39	SW	6	0	29.88	+0.06	38	35	+3	SW	4	b	*	41	34	0.04	
The Helder ...	29.49	42	SW	4	c	29.53	+0.01	40	39	-1	WSW	1	c	3	45	39	0.04	
FRANCE AND BELGIUM.																		
Brussels (9 a.m.)	*	*	*	*	*	29.69	-0.09	43	42	+2	SSW	3	0	*	51	?	-	
Cape Gris Nez	?	43	WSW	5	0	?	?	43	42	+2	SW	6	0	6	46	41	-	
Paris ...	30.32	40	WSW	2	0	29.89	-0.39	40	39	-2	SSW	2	0	*	56	38	-	
Brest ...	30.00	50	NW	1	0	29.81	-0.28	48	47	-1	W	3	T	4	54	45	0.04	
Lorient ...	30.02	48	NW	3	b	29.86	-0.20	47	45	+1	NW	3	0	2	52	43	-	
FRANCE AND BELGIUM.																		
Rochefort ...	30.12	48	W	3	c	30.02	-0.13	46	45	+3	WSW	3	0	?	55	37	-	
Belfort ...	29.95	41	W	1	0	29.90	-0.04	45	34	+4	W	1	b	*	46	30	-	
Lyons ...	30.05	44	N	2	b	30.02	-0.08	34	33	-2	SSE	1	m	*	51	29	-	
Nice ...	29.96	46	S	4	b	29.98	+0.11	40	37	+1	SE	4	0	1	57	37	-	
Perpignan ...	30.05	49	N	2	b	30.00	-0.12	39	36	-3	SW	1	b	*	58	35	-	
Biarritz ...	30.08	50	N	3	b	29.97	-0.17	42	40	-1	SW	2	b	2	54	39	-	
FRANCE AND BELGIUM.																		
Corunna ...	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	-
Lisbon ...	29.95	55	NW	4	b	29.89	-0.13	45	41	+1	NNE	4	b	2	63	?	-	

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

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



# WEATHER CHARTS

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

1890.

## 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:

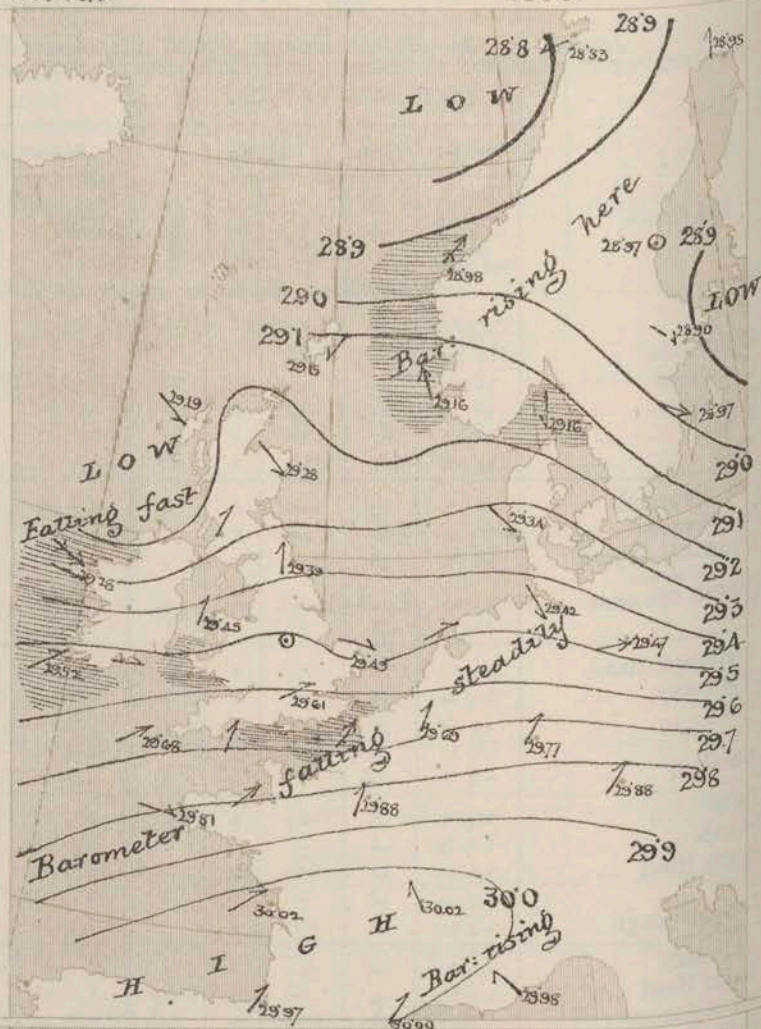
▨ = Rough. ▨ = High.

## MEAN HEIGHT OF THE BAROMETER

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

During the 15 Years: 1871-1885.

STATIONS.	MEAN READINGS.
Sumburgh Head	29.761
Stornoway	29.779
Wick	29.797
Nairn	29.815
Aberdeen	29.830
Leith	29.862
Shields	29.896
York	29.925
Loughborough	29.948
Ardrossan	29.874
Donaghadee	29.892
Holyhead	29.919
Liverpool	29.925
Parsonstown	29.940
Valencia	29.938
Roche's Point	29.941
Pembroke	29.944
Silly	29.960
Jersey	29.971
Hurst Castle	29.966
Dover	29.955
LONDON	29.967
Oxford	29.968
Cambridge	29.957
Yarmouth	29.938



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

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

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

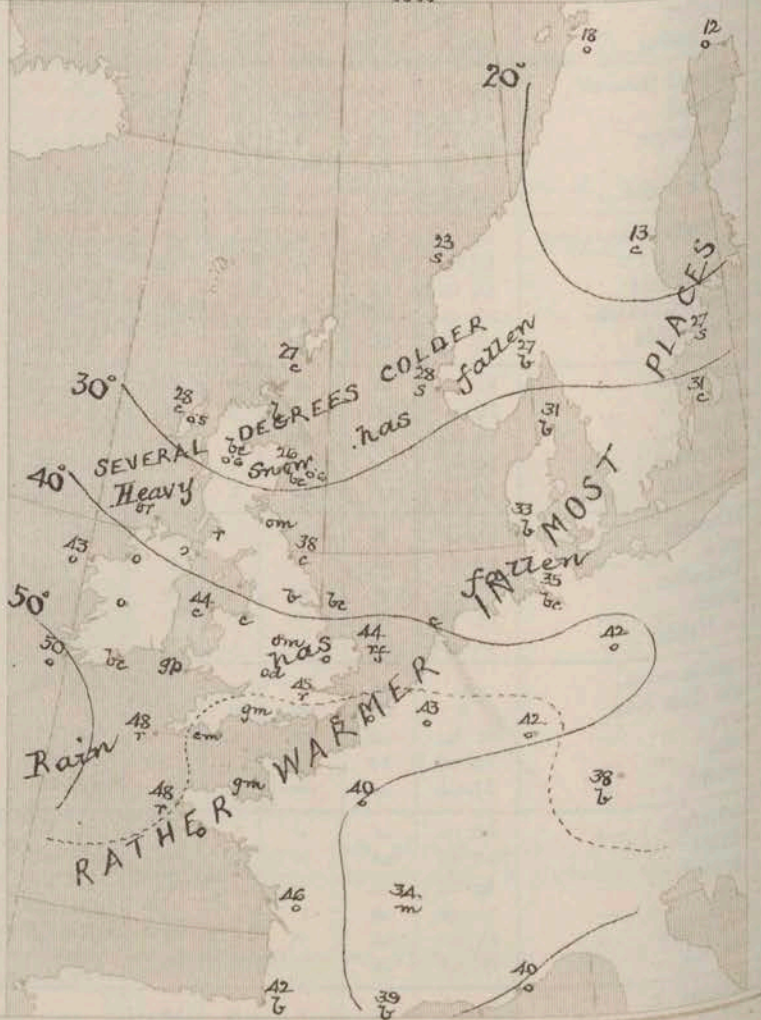
**RAINFALL**—A dotted line separates the districts in which rain has fallen from those where there has been none. Falls of 0.5 in. or more, are quoted in figures.

## MEANS OF TEMPERATURE IN SHADE, AND RAINFALL.

(For the month of March.)

STATIONS.	TEMPERATURE.				RAINFALL (Inches.)
	Daily Max.	Daily Min.	At 8 a.m.	At 4 p.m.	
Sumburgh Head	42.6	34.0	38.5	37.1	2.92
Stornoway	44.9	34.4	39.2	38.0	3.87
Wick	44.7	33.9	39.1	37.2	1.97
Nairn	45.6	34.3	38.2	36.5	1.72
Aberdeen	43.4	34.7	38.0	36.8	2.24
Leith	48.2	31.0	39.7	37.9	1.36
Shields	45.0	35.4	39.6	38.0	1.00
York	48.9	33.7	38.6	37.1	1.03
Loughborough	49.3	34.3	39.3	37.7	1.47
Ardrossan	46.8	36.6	40.6	38.7	2.59
Donaghadee	47.4	37.1	41.0	39.7	1.99
Holyhead	47.0	39.2	42.5	41.0	2.21
Liverpool	47.3	37.1	40.8	38.7	1.69
Parsonstown	50.1	35.5	41.2	39.6	2.35
Valencia	51.6	40.5	43.4	43.4	4.24
Roche's Point	50.2	40.0	43.8	42.1	3.71
Pembroke	47.1	39.5	43.0	40.8	2.45
Silly	49.9	43.0	46.5	44.7	2.38
Jersey	49.9	40.6	44.7	42.7	2.32
Hurst Castle	48.3	37.7	41.5	40.7	1.80
Dover	46.9	37.8	41.6	39.9	1.86
LONDON	50.6	35.8	40.6	38.7	1.42
Oxford	49.5	35.2	39.4	37.9	1.52
Cambridge	50.4	35.3	39.2	37.7	1.33
Yarmouth	43.7	35.8	40.8	39.1	1.77

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





# GENERAL SITUATION AT 8 A.M.

PRESSURE	<p>Highest, 30.0 ins. and more, over the south of France.</p> <p>Lowest, 28.8 ins. and less, in a depression lying off the northwest of Norway, 28.9 ins. in another lying over the northern part of the Baltic, 28.2 ins. and less in a third off the west of Scotland.</p> <p>Gradients moderate or slight generally.</p> <p>Barometer falling at all but the Scandinavian and Danish stations, quickly in the north of Ireland.</p>
TEMPERATURE	<p>Highest, 50° at Valenceix, 49° at Rocher Point, 48° at Scilly, and Brest, and 47° at Pembroke, Hawke Point, Cambridge and Lorient.</p> <p>Lowest, 12° at Kapaunda, 13° at Helsingfors, 15° at Hode, 23° at Christiansund, and 26° at Aberdeen.</p> <p>Over the northern parts of our Islands a fall of several degrees has occurred.</p>
WIND	<p>Light from the NW<sup>th</sup> in Scotland; moderate or fresh from the same quarter in Denmark and the south of Scandinavia.</p> <p>SW<sup>th</sup> or W<sup>th</sup> elsewhere; strong in force on many parts of our western and southern coasts, with a gale at Belmullet.</p> <p>A strong gale is also reported at Christiansund.</p>
WEATHER	<p>Fine in the north and northeast of Great Britain, as well as in Denmark and the south of France.</p> <p>Cloudy or overcast elsewhere, with rain in the north of Ireland and the southeast of England, and snow at Christiansund, Skutumpah and Stockholm.</p> <p>Heavy snow fell yesterday in the north of Scotland.</p>
SEA	<p>Rough at some of our western and northern stations, but moderate to smooth elsewhere.</p>

## PROBABLE CHANGES IN SYSTEM NOW PREVALENT

The new depression which has appeared off the west of Scotland seems likely to travel eastwards, and increasing winds from the south-westward and westward are therefore probable over Ireland and England, with equally unsettled weather.

## FORECASTS

For the 24 hours ending at NOON on 9<sup>th</sup> March 1890.

DISTRICTS.	FORECASTS.	DISTRICTS.	FORECASTS
<p>† 0 SCOTLAND NORTH</p> <p>† 1 SCOTLAND EAST</p> <p>† 2 ENGLAND N.E.</p> <p>† 3 ENGLAND EAST</p> <p>† 4 MIDLAND COUNTIES</p> <p>† 5 ENGLAND SOUTH</p>	<p>Wind varying greatly both in direction and force; unsettled, some snow.</p> <p>SW<sup>th</sup> to W<sup>th</sup> winds, increasing in force, squally, some rain.</p> <p>SW<sup>th</sup> to W<sup>th</sup> winds, increasing in force; squally, rain at times. Colder.</p>	<p>† 6 SCOTLAND WEST</p> <p>† 7 ENGLAND N.W.</p> <p>† 8 ENGLAND S.W.</p> <p>† 9 IRELAND NORTH</p> <p>† 10 IRELAND SOUTH</p>	<p>SW<sup>th</sup> to W<sup>th</sup> or NW<sup>th</sup> winds, strong to a gale; some rain. Colder.</p>
		WARNINGS	<p>The SOUTH CONE was hoisted last evening in districts 2, 3, 5, 8, and 10, and is now flying on all coasts.</p>

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

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



# YESTERDAY'S 2 P.M. REPORTS.

	BAR:	THER:		WIND		WEA.	SEA		BAR:	THER:		WIND		WEA.	SEA
		D.	W.	D.	F.					D.	W.	D.	F.		
Skudesnaes ...	28.98	32	32	W	9	S	6		Holyhead ...	29.66	49	45	W	4	6
Sumburgh Head ...	29.18	30	29	W	2	0	6		Valencia ...	29.85	54	50	W	6	3
Stornoway ...	29.19	33	33	W	4	S	4		Scilly ...	29.97	51	48	W	5	4
Aberdeen ...	29.26	36	35	W	1	0	3		Jersey ...	30.00	51	48	W	5	4
Shields ...	29.40	50	46	W	4	0	3		Dungeness ...	29.77	45	43	W	5	4
Ardrossan ...	29.38	47	46	W	5	0	4		London ...	29.77	54	49	W	3	4
Malin Head ...	29.29	44	43	W	7	C	5		Yarmouth ...	29.62	51	47	W	6	4
Mullaghmore ...	29.55	50	46	W	7	C	5		Rochefort ...	30.17	52	50	W	3	?
Belmullet ...	29.58	51	49	W	6	0	5								

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

Weather in morning fine over the greater part of the Mediterranean, Southern and Southwestern Europe, the north of France, south of England and Norway, dull changeable and unsettled elsewhere, with snow or rain in several parts of Central and Northern Europe, as well as in the west and northwest of the British Isles. Much snow over the northern half of Scotland later, rain in the west, and some rain showers over Ireland and the west of England generally and in Germany.

Temperatures 50° or more in extreme south and east of Spain, Algeria, Sicily and Malta only, 40° to 49° over Ireland, England, France and north of Spain, lower elsewhere. Below the freezing point over Northern Europe, the Baltic, Russia, and some parts of Austria, and as low as 4° at Helsingfors, 11° at Haparanda, 13° at Rodo and Archangel; 15° at Kiev, 16° at Hermannstadt, and 20° at Kharkov. Rising to between 50° and 58° over France, England, and Ireland later, but not reaching 40° over northern half of Scotland.

Wind W<sup>2</sup> to NW<sup>2</sup>, moderate to strong, over the British Isles and North Sea, and becoming a gale from W. and SW. in west of Norway; W<sup>2</sup> moderate to fresh over Central Europe. S<sup>2</sup> light to moderate over the Baltic. Very variable, and, as a whole, light over the Mediterranean. NE<sup>2</sup> in Spain.

Barometer highest 30.0 ins. to nearly 30.2 ins. over Spain, the Bay of Biscay, and west and south of France, 29.9 ins. to 30.0 ins. and more over the southern parts of the Mediterranean, lower elsewhere; lowest 28.6 ins. and less, in depression lying over Norway, 29.0 ins. and less, in a smaller disturbance over Gulf of Finland, and 29.5 ins. and less, at Odessa. New (shallow secondary) disturbance advancing over Scotland from north-westward later. Pressure changing irregularly.

### EXPLANATION OF COLUMNS GIVEN ON PAGE 1.

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

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

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

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



# DAILY WEATHER REPORT.

for Sunday 9<sup>th</sup> March 1890.  
 Issued by the Meteorological Office, 63, Victoria Street, London. R. H. SCOTT, Secretary.

Issued by the Meteorological Office, 63, Victoria Street, London. R. H. SCOTT, Secretary.																		
STATIONS.	YESTERDAY EVENING.					8 A.M. TO DAY.										PAST 24 HOURS.		
	BAROM :	TEMP.	WIND.		Weather.	BAROMETER.		SHADE TEMP.			WIND.		Sea. (0 to 9.)	SHADE TEMP.		Amount of Rainfall.		
			Reading at 32° F. and Sea Level.	Dry.		Dirce.	Force. (0 to 12.)	Reading at 32° F. and Sea Level.	Difference from 8 a.m. yesterday.	Dry.	Wet.	Difference from 8 a.m. yesterday.		Dirce.	Force. (0 to 12.)		Max.	Min.
SCANDINAVIA.																		
Haparanda ...	29.15	-3	Z	0	b	29.35	+ .40	3	1	- 9	Z	0	b	*	19	-4	—	
Hernösand ...	29.24	13	Z	0	b	29.46	+ .49	6	6	- 7	Z	0	c	*	32	-5	—	
Stockholm ...	29.22	23	Z	0	bc	29.38	+ .48	32	30	+ 5	SE	6	s	*	32	21	0.04	
Wisby ...	29.53	30	SSW	6	b	29.41	+ .44	35	34	+ 4	S	6	r	*	28	25	0.08	
Bodö ...	28.97	23	ENE	2	s	29.14	+ .31	21	19	+ 3	ENE	2	b	1	23	18	—	
SCANDINAVIA.																		
Christiansund ...	29.13	25	WSW	8	s	29.26	+ .28	25	24	+ 2	WSW	7	s	5	27	23	0.16	
Skudesnaes ...	29.23	30	NNW	1	o	29.26	+ .10	29	26	+ 1	NNW	6	c	4	20	28	—	
Christiania Fjord (Færder) ...	29.28	34	WSW	3	b	29.03	- .08	30	29	+ 3	NNE	6	s	3	34	27	—	
Skagen (The Scaw) ...	29.29	35	SW	5	o	29.05	- .11	36	36	+ 5	SW	4	o	3	37	31	0.25	
Fanö ...	29.19	37	S	4	r	29.14	- .20	36	35	+ 3	S	4	c	*	37	32	0.04	
SCANDINAVIA.																		
Sumburgh Head ...	29.20	27	N	3	c	29.45	+ .30	25	23	- 2	N	3	c	3	33	22	0.04	
Stornoway ...	29.30	30	NE	5	s	29.70	+ .51	26	26	- 2	N	2	c	3	33	22	0.22	
Wick ...	29.21	32	NE	3	o	29.63	+ .41	26	26	- 1	NW	4	ow	3	32	20	0.18	
Nairn ...	29.18	35	WNW	3	c	29.66	+ .42	25	24	- 5	W	2	bc	2	35	21	0.01	
Aberdeen ...	29.08	33	NE	7	ogs	29.64	+ .36	26	25	0	WNW	4	spg	4	34	23	0.37	
SCANDINAVIA.																		
Leith ...	29.00	40	W	3	bc	29.72	+ .43	32	30	- 5	NW	2	bc	*	42	29	0.14	
Shields ...	29.06	44	WSW	4	c	29.70	+ .31	31	31	- 7	W	2	b	2	45	28	0.09	
Spurn Head ...	29.18	39	W	5	o	29.66	+ .19	34	32	- 4	WNW	7	csp	6	47	31	0.09	
York ...	29.19	40	SW	2	bc	29.75	+ .29	31	30	- 5	NNW	1	b	*	50	30	0.15	
Loughborough ...	29.28	41	W	4	c	29.77	+ .26	34	32	- 7	W	2	c	*	53	32	0.05	
BRITISH ISLANDS.																		
Ardrossan ...	29.01	37	NW	3	r	29.75	+ .46	31	31	- 8	NW	3	bc	2	43	29	0.36	
Malin Head ...	29.18	29	N	7	o	29.80	+ .62	37	32	- 1	NNW	7	csp	4	43	32	0.11	
Mullaghmore ...	29.34	41	NNW	8	chg	29.93	+ .71	38	34	- 6	N	5	bc	4	45	34	0.24	
Belmullet ...	29.45	38	WNW	7	ops	30.00	+ .72	38	37	- 5	WNW	3	b	*	44	35	0.31	
Donaghadee ...	29.04	41	NNW	4	c	29.82	+ .47	34	33	- 5	NW	5	b	3	46	33	0.08	
BRITISH ISLANDS.																		
Liverpool (Bidston) ...	29.19	43	WSW	6	c	29.78	+ .32	37	33	- 6	WNW	1	c	4	51	32	0.10	
Holyhead ...	29.22	42	W	5	cq	29.85	+ .40	39	36	- 5	NW	6	bcq	6	47	35	0.08	
Parsonstown ...	29.41	38	NW	2	r	30.00	+ .60	31	30	- 14	Z	0	b	*	49	30	0.12	
Valencia ...	29.58	44	WNW	6	cpe	30.10	+ .58	39	33	- 11	NNW	3	bc	4	50	37	0.10	
Roche's Point ...	29.48	44	WNW	6	chg	30.05	+ .54	38	35	- 11	WNW	4	bc	4	49	34	0.01	
BRITISH ISLANDS.																		
Pembroke (St. Ann's Hd.) ...	29.39	44	W	7	b	29.93	+ .40	38	35	- 9	NW	6	b	6	48	37	0.03	
Scilly ...	29.56	46	WNW	6	cq	29.99	+ .31	44	39	- 4	N	5	bc	4	52	43	0.02	
Prawle Point ...	29.49	45	NW	6	o	29.94	+ .26	39	37	- 8	NNW	5	b	3	47	34	0.20	
Jersey (St. Aubin's) ...	29.60	48	WSW	4	bc	29.94	+ .16	45	39	- 1	NW	4	b	3	51	41	0.22	
Hurst Castle ...	29.45	46	W	6	om	29.82	+ .16	40	38	- 6	NW	5	bc	3	48	36	0.18	
BRITISH ISLANDS.																		
Dungeness ...	29.45	45	WNW	6	r	29.73	+ .11	37	35	- 6	NNW	4	b	3	46	34	0.08	
London ...	29.40	47	WSW	4	p	29.79	+ .18	38	35	- 7	WNW	2	b	*	52	35	0.26	
Oxford ...	29.37	43	WSW	6	o	29.80	+ .23	35	33	- 11	WNW	3	b	*	52	34	0.05	
Cambridge ...	29.36	47	W	2	o	29.75	+ .25	35	33	- 12	NW	1	b	*	55	32	0.02	
Yarmouth ...	29.29	48	SW	4	bcq	29.64	+ .15	35	33	- 9	NW	6	bc	4	49	33	0.21	
GERMANY & HOLLAND.																		
Cuxhaven ...	29.50	39	S	2	o	29.33	- .09	38	38	+ 3	SW	4	bc	*	41	35	0.24	
Berlin ...	29.67	40	SW	3	o	29.57	+ .12	41	39	- 1	SW	5	r	*	45	37	0.08	
Wiesbaden ...	*	*	*	*	*	29.65	- .12	41	40	- 1	SW	1	r	*	50	41	—	
Munich ...	29.85	36	Z	0	o	29.81	- .07	33	30	- 5	SW	5	b	*	46	30	—	
The Helder ...	29.38	41	SSW	4	r	29.41	- .12	38	36	- 2	WNW	5	c	4	43	37	0.16	
FRANCE AND BELGIUM.																		
Brussels (9 a.m.) ...	*	*	*	*	*	29.62	- .07	37	36	- 6	WNW	4	o	*	47	37	0.12	
Cape Gris Nez ...	?	43	SW	5	r	?	?	37	34	- 6	NNW	5	b	5	45	36	0.12	
Paris ...	29.72	47	SW	4	o	29.76	- .12	42	39	+ 2	WNW	2	bc	*	51	39	0.08	
Brest ...	29.65	49	W	5	r	29.98	+ .17	45	44	- 3	N	5	bc	3	52	43	0.16	
Lorient ...	29.72	48	WSW	3	o	29.92	+ .06	42	40	- 5	NNW	4	b	2	52	41	0.08	
FRANCE AND BELGIUM.																		
Rochefort ...	29.91	47	SW	3	bc	29.93	- .09	44	43	- 2	NNW	4	c	?	52	37	0.12	
Belfort ...	29.80	35	W	1	o	29.80	- .10	43	36	- 2	W	1	o	*	49	30	—	
Lyons ...	29.87	45	E	1	c	29.88	- .14	40	38	+ 6	SSW	1	o	*	54	34	—	
Nice ...	29.92	46	SSE	2	b	29.88	- .10	44	39	+ 4	ENE	4	b	1	55	39	—	
Perpignan ...	29.87	50	E	3	o	29.89	- .11	43	42	+ 4	N	4	b	*	59	36	—	
Biarritz ...	29.88	50	NW	3	bc	29.89	- .08	46	44	+ 4	SW	3	o	2	54	42	—	
SPAIN.																		
Corunna ...	*	*	*	*	*	30.13	+ .18	48	45	+ 5	N	4	c	5	57	41	0.12	
Lisbon ...	29.82	51	NNW	6	b	29.92	+ .03	51	47	+ 6	NNE	6	b	4	61	45	—	

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

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



# WEATHER CHARTS.

for 8 a.m. on

Sunday, 9<sup>th</sup> March,

1890.

## 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**—When considerable, is shown thus:

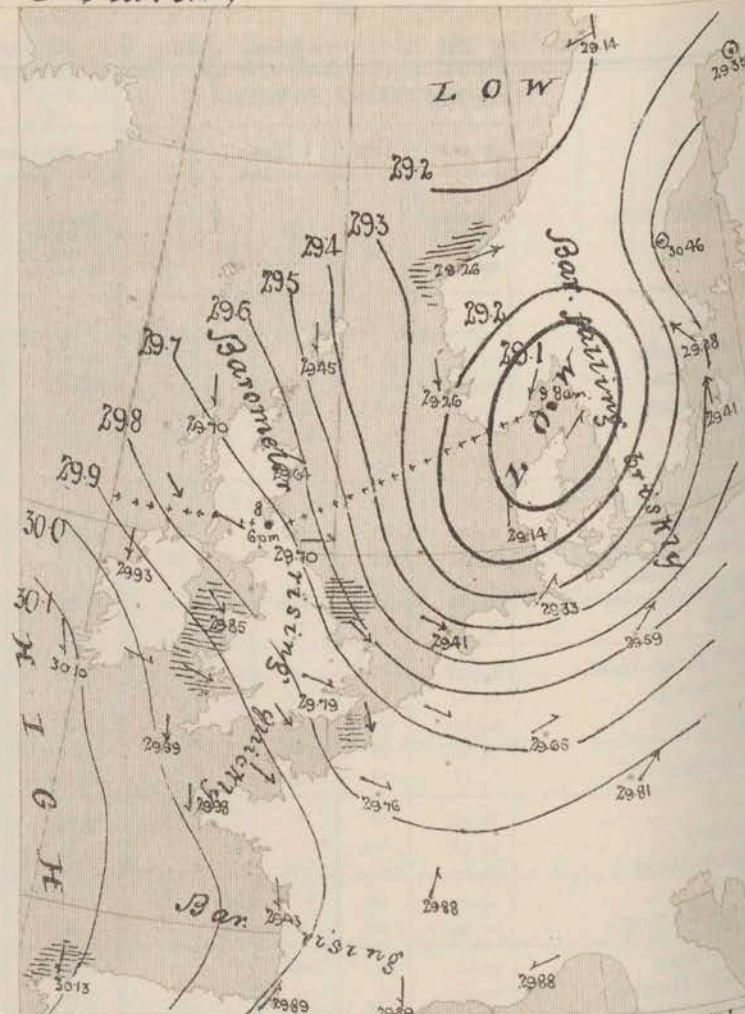
▨ = Rough. ▨ = High.

## MEAN HEIGHT OF THE BAROMETER

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

During the 15 Years: 1871—1885.

STATIONS.	MEAN READINGS.
Sumburgh Head	29.751
Stornoway	29.779
Wick	29.797
Nairn	29.815
Aberdeen	29.830
Leith	29.802
Shields	29.806
York	29.925
Loughborough	29.948
Ardrossan	29.878
Donaghadee	29.892
Holyhead	29.919
Liverpool	29.925
Parsonstown	29.940
Valencia	29.938
Roche's Point	29.941
Pembroke	29.944
Sally	29.900
Jersey	29.971
Hurst Castle	29.959
Dover	29.955
LONDON	29.967
Oxford	29.906
Cambridge	29.957
Yarmouth	29.938



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

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

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

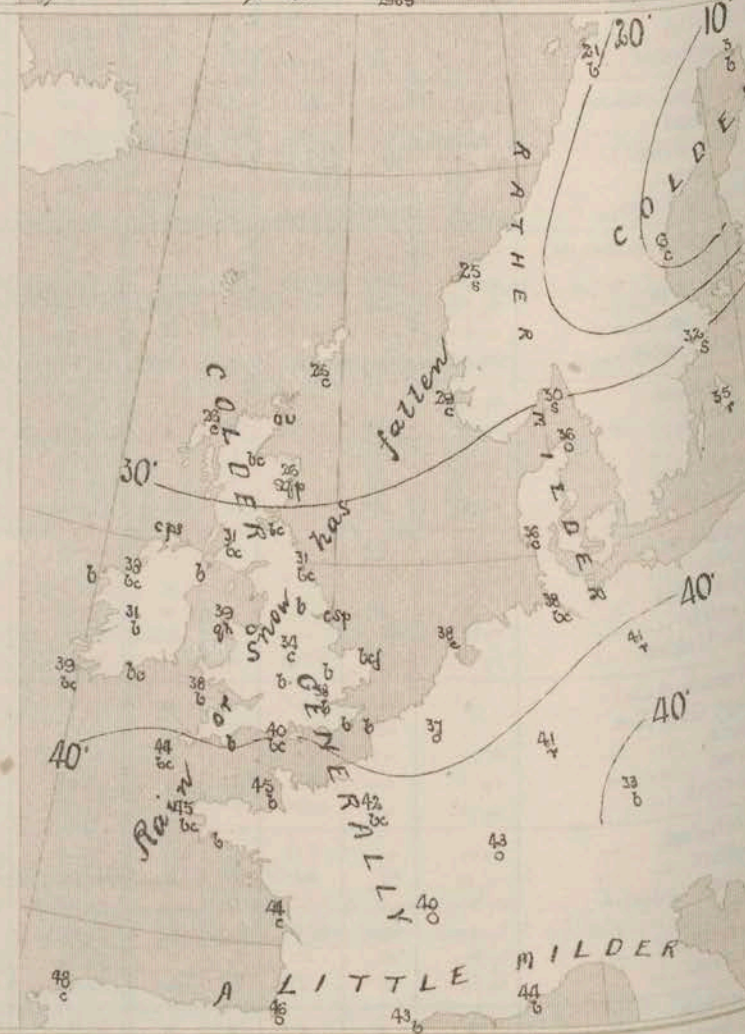
**RAINFALL**—A dotted line separates the districts in which rain has fallen from those where there has been none. Falls of 0.5 in. or more, are quoted in figures.

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

(For the month of March.)

STATIONS.	TEMPERATURE.				RAINFALL (Inches.)
	Daily Max.	Daily Min.	Day.	Night.	
Sumburgh Head	42.6	34.0	38.5	37.1	2.92
Stornoway	44.9	34.4	39.2	38.0	3.87
Wick	44.7	33.9	39.1	37.2	1.97
Nairn	45.6	34.2	38.2	36.3	1.72
Aberdeen	45.4	34.7	38.9	36.8	2.24
Leith	48.2	34.0	39.7	37.9	1.36
Shields	45.9	35.4	39.6	38.0	1.60
York	48.0	33.7	38.6	37.1	1.63
Loughborough	49.3	34.3	39.5	37.7	1.47
Ardrossan	46.8	36.6	40.5	38.7	2.59
Donaghadee	47.3	37.1	41.0	39.7	1.99
Holyhead	47.6	39.2	42.5	41.0	2.21
Liverpool	47.3	37.1	40.8	38.7	1.60
Parsonstown	50.1	35.5	41.2	39.0	2.35
Valencia	51.6	40.6	43.4	42.4	1.24
Roche's Point	50.2	40.0	43.8	42.1	3.71
Pembroke	47.1	39.5	42.6	40.8	2.45
Sally	49.9	43.0	46.5	44.7	2.38
Jersey	49.9	40.5	44.7	42.7	2.32
Hurst Castle	48.3	37.7	41.6	40.7	1.80
Dover	46.9	37.8	41.6	39.9	1.80
LONDON	50.6	35.8	40.6	38.7	1.43
Oxford	46.5	35.2	39.4	37.9	1.62
Cambridge	50.6	33.8	39.2	37.7	1.33
Yarmouth	45.7	35.8	40.8	39.1	1.77

NOTE.—The Temperature means are for the 15 years 1871-85, the Rainfall means are mainly those for the 20 years 1864-85.





# GENERAL SITUATION AT 8 A.M.

## PRESSURE

Highest, 30.1 ins: and upwards, in an anticyclone lying to the south-east of Ireland and the north-eastward of Spain.  
Lowest, 29.1 ins: and less, in a depression lying over the Skagerrack and north of Denmark; 29.2 ins: and less, in another disturbance lying off the west of Norway.  
Gradient rather steep over the North Sea and Baltic, but moderate or slight elsewhere.  
Barometer rising at all but the Danish and German stations, - briskly in our Islands.

## TEMPERATURE

Highest, 51° at Dublin, 48° at Corunna, 46° at Biarritz, 45° at Jersey and Brest and 44° at Rochefort and Nice.  
Lowest, 3° at Haparanda, 6° at Helsingfors, 11° at Rode, and 25° at Christiansund, Scutumpah H. and Kain.  
 Frost occurred last night in many parts of the United Kingdom; at Mirk the thermometer fell to 20° and at Kain to 21°.

## WIND

Moderate to strong from the NW<sup>W</sup> over our Islands and the greater part of France.  
 SW<sup>W</sup> or S<sup>W</sup> over Denmark and Germany, SE in the south of Sweden, calm in the north of Sweden.  
 A violent gale from the NW<sup>W</sup> was experienced in the north of Ireland yesterday, and a moderate gale from NE. in the East of Scotland.

## WEATHER

Fine over the greater part of the United Kingdom, with snow showers in places.  
 Cloudy elsewhere, with snow at some of the Scandinavian stations and rain at Mirk and Westboden.  
 Rain, hail or snow fell yesterday in most parts of Western Europe, and thunderstorms were experienced at some of the English stations.

## SEA

Rough at Spurn Head, Helighead and Pembroke, and rather rough at Christiansund and C. Fris. Niz, but moderate or slight elsewhere.

## PROBABLE CHANGES IN SYSTEM NOW PREVALENT

# FORECASTS

For the 24 hours ending at NOON on 10<sup>th</sup> March

1890.

## DISTRICTS.

## FORECASTS.

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

NONE ISSUED

## DISTRICTS.

## FORECASTS

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

NONE ISSUED

## WARNINGS

The NORTH CONE was hoisted yesterday in districts 0.1.6.7. 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		WEA.	SEA		BAR:	THER:		WIND		WEA.	SEA
		D.	W.	D.	F.					D.	W.	D.	F.		
Skudesnaes ...	29.15	40	34	WNW	7	c	5	Holyhead ...	29.29	42	41	WNW	5	of hq	4
Sumburgh Head ...	29.15	31	30	W	1	c	3	Valencia ...	29.52	48	44	WNW	6	bepg	4
Stornoway ...	29.15	33	32	N	4	o	4	Scilly ...	29.57	52	50	WSW	6	c	4
Aberdeen ...	29.12	34	33	N	1	ors	4	Jersey ...	29.69	51	48	SW	4	o	4
Shields ...	29.17	44	40	SSE	4	c	4	Dungeness ...	29.55	45	44	W	6	o	4
Ardrossan ...	29.03	41	40	WSW	4	o	3	London ...	29.47	52	49	SW	4	o	3
Malin Head ...	28.96	40	39	SW	7	c	5	Yarmouth ...	29.29	48	47	WSW	4	or	3
Mullaghmore ...	29.14	43	40	WSW	8	or hq	6	Rocheport ...	29.96	52	48	SW	3	bc	2
Belmullet ...	29.20	44	43	WNW	7	o	*								

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

Weather varying greatly in different localities. Fine in the north and northeast of Great Britain, as well as in Denmark and the greater part of Southern Europe. Cloudy or overcast elsewhere, with rain in the north of Ireland and the southeast of England, and snow over the Baltic and the coast of Norway. Heavy snow falling later in Scotland, and hail or rain showers over Ireland and England; sharp thunderstorms passing over our midland and northern counties in afternoon.

Temperature highest 55° and upwards, on the Algerian coast and over the central parts of the Mediterranean (La Caille 62°, Algiers 59°, Oran 56°). High 45° to 50° over the western and southern part of the United Kingdom and the greater part of Southern Europe. Lowest 9° at Uleaborg, 12° at Haparanda, 13° at Kuusamo, 14° at Archangel, and 15° at Moscow; below the freezing point over Northern and Eastern Europe generally, as well as in Scotland. Fall taking place later over the western parts of the United Kingdom.

Winds light from the NW<sup>nd</sup> in Scotland, moderate or fresh from the same quarter over Denmark and the south of Scandinavia. SW<sup>ly</sup> or W<sup>ly</sup> over Ireland, England, and France, and the greater part of Central Europe; strong to a gale in the north of Ireland. Light from the SW<sup>ly</sup> or SE<sup>ly</sup> in Russia, and from the NE<sup>ly</sup> at the Spanish and Italian stations; variable in Algeria. Subsequently blowing with considerable force in all parts of the United Kingdom, from NW or W. on our western and southern coast, and from NE in Scotland.

Barometer highest 30.1 ins: and upwards over the south of Italy; high 30.0 ins: and upwards, over nearly the whole of Southern Europe. Lowest 28.8 ins: and less, in a depression lying off the northwest of Norway, and also in another lying over the Gulf of Finland. New disturbance with similarly low reading subsequently advancing from the W<sup>nd</sup> to the extreme north of Ireland and passing across the south of Scotland.

### EXPLANATION OF COLUMNS GIVEN ON PAGE 1.

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

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

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

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



# DAILY WEATHER REPORT.

for

Monday, 10<sup>th</sup> March,

1890.

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

Issued by the Meteorological Office, 63, Victoria Street, London. R. H. SCOTT, Secretary.																	
STATIONS.	YESTERDAY EVENING.					8 A.M. TO DAY.										PAST 24 HOURS.	
	BAROM.	TEMP.	WIND.		Weather.	BAROMETER.		SHADE TEMP.			WIND.		Weather.	Sea. (0 to 4.)	SHADE TEMP.		Amount of Rainfall.
	Reading at 32° F. and Sea Level.	Dry.	Dir.	Force. (0 to 12.)		Reading at 32° F. and Sea Level.	Difference from 8 a.m. yesterday.	Dry.	Wet.	Difference from 8 a.m. yesterday.	Dir.	Force. (0 to 12.)			Max.	Min.	
SCANDINAVIA.																	
Haparanda ...	29.38	22	SE	2	S	29.21	- 14	15	14	+ 12	NE	2	bc	*	23	?	0.28
Hernösand ...	29.15	28	NE	4	S	29.49	+ 03	21	19	+ 15	SE	0	b	*	24	3	0.85
Stockholm ...	29.25	35	S	2	b	29.56	+ 18	24	24	- 8	W	6	S	*	37	21	0.16
Wisby ...	29.35	27	S	6	c	29.71	+ 30	29	26	- 6	W	8	bc	*	23	25	0.08
Bodö ...	29.32	27	ESE	2	bc	29.33	+ 19	23	24	+ 7	WNW	4	0	*	30	19	-
Christiansand	29.46	24	SW	6	S	29.65	+ 39	24	26	+ 2	WNW	7	S	*	28	25	0.08
Skudesnaes ...	29.62	27	NE	1	c	29.76	+ 50	36	33	+ 7	SSE	6	0	*	?	23	-
Christiania Fjord (Færder)	29.37	29	WNW	6	b	29.83	+ 80	26	23	- 4	WNW	3	b	*	30	25	-
Skagen (The Sea)	29.34	31	NE	5	bc	29.89	+ 64	32	28	- 4	NE	2	b	*	34	28	-
Fanö ...	29.69	32	W	6	b	30.02	+ 88	34	30	- 2	SW	2	0	*	39	28	0.24
Sumburgh Head	29.70	29	WNW	4	SP	29.86	+ 09	40	38	+ 15	WSW	1	0	*	40	25	0.06
Stornoway ...	29.78	35	W	3	0	29.84	+ 16	42	42	+ 16	SW	4	0	*	42	25	0.10
Wick ...	29.80	24	N	2	c	29.50	- 13	40	38	+ 14	WNW	3	bc	*	40	25	0.05
Nairn ...	29.87	29	SW	1	bc	29.58	- 08	42	40	+ 17	SW	1	0	*	43	25	0.04
Aberdeen ...	29.94	27	WSW	2	b	29.61	- 03	41	38	+ 15	SSE	2	bc	*	41	25	0.16
Leith ...	29.95	37	NE	3	bc	29.68	- 04	48	47	+ 16	W	3	om	*	48	32	0.01
Shields ...	30.02	36	W	3	b	29.77	+ 07	51	49	+ 20	SW	1	0	*	51	39	-
Spurn Head ...	30.05	39	WNW	4	c	29.93	+ 27	41	40	+ 7	SSE	6	0	*	41	32	0.07
York ...	29.97	35	W	3	b	29.90	+ 15	45	44	+ 14	SW	3	0	*	45	30	0.01
Loughborough	30.13	38	WNW	3	c	30.01	+ 24	43	42	+ 9	SW	6	7 q	*	44	32	0.13
BRITISH ISLANDS.																	
Ardrossan	29.97	39	SW	3	p	29.73	- 02	50	49	+ 19	W	3	0	*	50	31	0.24
Malin Head ...	29.91	40	SSW	6	ST	29.77	- 03	47	47	+ 16	W	5	0.2	*	48	35	0.09
Mullaghmore ...	29.96	43	S	5	org	29.89	- 04	49	49	+ 11	SW	6	+	*	49	38	0.33
Belmullet ...	29.93	46	WSW	6	0	29.93	- 07	50	50	+ 12	WSW	5	om	*	50	34	0.26
Donaghadee ...	30.03	41	WSW	3	bc	29.84	+ 02	52	51	+ 12	W	5	0	*	52	33	0.14
Liverpool (Bidston)	30.13	37	W	3	bc	29.93	+ 15	49	49	+ 12	WSW	6	+	*	50	36	0.15
Holyhead ...	30.10	42	WSW	2	bc	29.98	+ 13	49	47	+ 8	WSW	4	0.2	*	48	38	0.31
Parsonstown ...	30.10	44	SW	1	c	30.04	+ 04	51	50	+ 20	SW	2	0	*	51	30	0.12
Valencia ...	30.15	49	SSE	5	OU	30.18	+ 08	52	51	+ 13	WSW	5	om	*	52	39	0.08
Roche's Point...	30.19	46	W	4	c	30.15	+ 10	52	50	+ 14	W	4	0	*	52	38	-
Pembroke (St. Ann's Hd.)	30.20	42	WSW	4	b	30.13	+ 20	48	48	+ 10	SW	7	0.2	*	48	38	0.04
Scilly ...	30.27	46	WNW	4	bc	30.32	+ 33	49	48	+ 5	WSW	5	+	*	44	42	-
Prawle Point...	30.27	39	WNW	3	b	30.29	+ 35	46	46	+ 7	SW	6	0.2	*	48	34	-
Jersey (St. Aubin's)	30.23	45	NE	4	b	30.42	+ 48	44	41	- 1	WSW	5	0.2	*	47	32	0.01
Hurst Castle ...	30.20	42	WNW	4	b	30.25	+ 43	46	45	+ 6	W	7	0.2	*	46	33	-
FRANCE AND BELGIUM.																	
Dungeness ...	30.06	37	N	4	bc	30.26	+ 53	42	39	+ 5	WSW	6	0.2	*	45	27	-
London ...	30.10	39	WSW	2	b	30.19	+ 40	40	39	+ 2	SW	4	0.2	*	43	31	0.09
Oxford ...	30.26	34	NE	2	b	30.15	+ 33	42	41	+ 7	SW	3	+	*	44	32	0.07
Cambridge ...	30.06	37	WNW	2	b	30.09	+ 31	40	39	+ 3	WSW	4	+	*	45	27	0.15
Yarmouth ...	30.01	38	WNW	3	b	30.07	+ 43	36	35	+ 1	SW	5	0.2	*	40	30	0.01
GERMANY & HOLLAND.																	
Cuxhaven ...	29.79	37	WNW	6	S	30.17	+ 84	31	30	- 7	SW	3	b	*	40	30	-
Berlin ...	29.91	36	W	3	b	30.27	+ 69	31	30	- 10	WNW	3	b	*	40	30	-
Wiesbaden ...	*	*	*	*	*	30.39	+ 74	30	29	- 11	N	2	b	*	45	28	0.04
Munich ...	30.00	33	W	4	S	30.36	+ 55	29	28	- 4	WNW	3	0	*	48	25	0.16
The Helder ...	30.06	35	W	3	b	30.16	+ 75	27	25	- 1	SSE	4	0	*	39	32	0.04
AFRICA & ASIA.																	
Brussels (9 a.m.)	*	*	*	*	*	30.38	+ 76	31	30	- 6	SW	4	0	*	43	29	0.04
Cape Gris Nez	*	*	*	*	*	*	*	39	35	+ 2	SW	5	0	*	46	30	0.02
Paris ...	30.13	39	W	2	bc	30.45	+ 69	27	27	- 15	SE	0	b	*	50	?	-
Brest ...	30.23	46	N	3	b	30.41	+ 43	46	45	+ 1	W	3	0	*	52	41	0.04
Lorient ...	30.30	45	N	5	b	30.49	+ 67	42	38	- 9	SW	2	bc	*	48	37	-
OTHER STATIONS.																	
Rocheport ...	30.23	46	NE	4	c	30.50	+ 57	37	37	- 7	NE	4	b	*	54	30	-
Belfort ...	30.11	38	SW	1	0	30.32	+ 52	32	25	- 11	SW	1	b	*	50	24	0.04
Lyons ...	30.07	40	N	1	c	30.38	+ 45	32	30	- 8	N	4	b	*	49	31	0.04
Nice ...	29.32	34	SW	0	c	29.91	+ 03	40	42	+ 1	SE	3	+	*	53	43	-
Perpignan ...	29.47	31	NE	3	0	30.02	+ 13	41	35	- 4	NE	6	b	*	37	39	-
Biarritz ...	30.15	49	NE	5	b	30.47	+ 58	36	33	- 10	SSE	3	b	*	54	34	-
Corunna ...	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
Lisbon ...	30.08	53	NE	7	b	30.27	+ 35	46	38	- 5	NE	4	b	*	37	45	-

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

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



for 8 a.m. on Monday, 10<sup>th</sup> March.

EXPLANATION OF MAP

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

$\longrightarrow$  = forces 5 to 7;  $\longrightarrow$  = forces 1 to 4.

at 8.0 a.m. for the month of March.  
During the 15 Years: 1871—1885.

Hand-drawn map of Europe and Western Asia with isotherms and handwritten annotations. The map shows isotherms for 30°, 40°, and 50° degrees. Handwritten notes include "CONSIDERABLE SHOWERS of rain" in the British Isles, "WARMER in most places" in the east, and "SEVERAL DEGREES COLDER" in the south. Numerous temperature readings in degrees Fahrenheit are scattered across the map, such as 52, 49, 47, 40, 36, 31, 29, 27, 23, 15, 10, 5, 0, and negative values like -10 and -15.



W

Highest, 30.2 ms. to 30.5 ms. in a depression covering the Bay of Biscay, Spain, France, and the Channel.  
Lowest, 29.4 ms. and less, off the north of Scotland, 29.2 ms. and less, over Ireland and the East of England.

Gradients moderate except within the high pressure areas

Barometer unsteady, but higher than it was yesterday, except in the far north.

Highest,  $52^{\circ}$  in the south and east of Ireland,  $51^{\circ}$  at Parsonstown and Shields,  $49^{\circ}$  at Mullaghmore and Dilly,  $46^{\circ}$  at West and Kinsale. Lowest,  $15^{\circ}$  at Haverford,  $21^{\circ}$  at Barmahad,  $27^{\circ}$  at Christiansund and Paris,  $31^{\circ}$  at Berlin,  $36^{\circ}$  at Yarmouth,  $41^{\circ}$  in London, and at Sumburg Head. It has risen rapidly in the western and northern part of our Islands since yesterday, and is now rising elsewhere. In London it fell to  $31^{\circ}$  in the shade and  $21^{\circ}$  on the grass in the night.

It has risen rapidly in the northern and northern parts of our islands since yesterday, and is now rising elsewhere. In London it fell to  $31^{\circ}$  in the shade and  $21^{\circ}$  on the grass in the night.

W<sup>16</sup> - stone to a cove in main part of breeding and Norway SE<sup>3</sup>

$W^{\frac{1}{2}}$ , strong to a gale, in many parts of Sweden and Norway;  $SE^{\frac{1}{2}}$ , strong, at Skutumpah; light and variable in Scotland,  $SW^{\frac{1}{2}}$  and  $W^{\frac{1}{2}}$ , moderate to strong over England and Ireland;  $N^{\frac{1}{2}}$  in Germany,  $NE^{\frac{1}{2}}$  in the southwest of France.

fine and bright in Sweden and over the greater part of France; very changeable over the British Isles, with rain at many of the Irish and English stations.

Rainfall has not been heavy during the past 24 hours; in the south of England the fall has been very slight.

Rather rough on our western and southern coasts, moderate in the east, slight or smooth in the north.

## CHANGES IN SYSTEM NOW PREVALENT

Changeable weather is still probable, with rain at times.

For the 24 hours ending at NOON on 11<sup>th</sup> MARCH 1890.

For the 24 hours ending at NOON on 11<sup>th</sup> MARCH

1890.

DISTRICTS.		FORECASTS.	DISTRICTS.		FORECASTS
AT 0	SCOTLAND NORTH	W <sup>ly</sup> and SW <sup>ly</sup> winds, changeable, some rain.	AT 6	SCOTLAND WEST	Same as Nos 0 to 2.
AT 1	SCOTLAND EAST		AT 7	ENGLAND N.W.	
2	ENGLAND N.E.		AT 8	ENGLAND S.W.	
3	ENGLAND EAST	SW <sup>ly</sup> and W <sup>ly</sup> winds, fresh to light; very changeable, rain at times, bright intervals.	AT 9	IRELAND NORTH	SW <sup>ly</sup> winds, increasing in strength, rain at times, squally.
4	MIDLAND COUNTIES		AT 10	IRELAND SOUTH	
5	ENGLAND SOUTH			WARNINGS	



# YESTERDAY'S 2 P.M. REPORTS.

	BAR:	THER:		WIND		WEA	SEA		BAR:	THER:		WIND		WEA	SEA
		D.	W.	D.	F.					D.	W.	D.	F.		
Skudesnaes ...	29.44	30	28	NW	7	08thg	4	Holyhead ...	30.07	42	37	NW	4	6	4
Sumburgh Head								Valencia ...							
Stornoway ...	29.81	32	32	N	2	6c	3	Scilly ...							
Aberdeen ...								Jersey ...	30.10	46	40	NW	5	6c	3
Shields ...								Dungeness ...	29.94	35	34	N	4	c	*
Ardrossan ...								London ...							
Malin Head ...	29.95	39	37	NW	3	0	3	Yarmouth ...							
Mullaghmore ...								Rocheport ...							
Belmullet ...	30.02	46	44	WNW	3	c	*								

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

Weather fine over the greater part of the United Kingdom and France, (but with snow showers in one or two places) as well as at most of the Russian stations and over the southern parts of Spain, Germany and Austria, dull elsewhere, with rain in Germany and snow at many of the Scandinavian stations. Snow squalls occurring during day in many parts of Great Britain. Dull, rainy weather setting in on our extreme West coast in evening.

Temperature highest 55° and upwards, on the Algerian coasts and over the central parts of the Mediterranean (Algiers 60°, La Calle 59°, Sfax and Malta 57°), high 45° and upwards, on the coasts of Spain and Italy. Lowest (1) 3° at Haparanda, 6° at Hernösand, 7° at Uleåborg, and 15° at Kuopio; (2) 19° at Hermannstadt, 21° at Khar'kov, and 25° at Nicolaïeff; below the freezing point over nearly the whole of northern and eastern Europe, as well as over the northern parts of the United Kingdom. Brisk rise taking place later on the extreme west of our Islands.

Wind moderate to strong from the NW over our Islands and France, and from the SW in Germany. Light or variable from the S or SE over Russia and the Baltic; variable in Italy and Algeria, moderate to strong from the N on the coast of the Iberian Peninsula. Subsequently backing to the SW on our extreme west coasts, & increasing to a strong breeze.

Barometer highest 30.1 ins. and upwards, in an anticyclone lying over the southern parts of Russia; high 30.1 ins. and upwards, in another system lying to the southwest of Ireland and the northwest of the Iberian Peninsula. Lowest 29.1 ins. and less, in a well marked depression having its centre over the Skager Rack, low 29.6 ins. and less, in a shallow disturbance lying over Algeria. Northern depression subsequently moving away to the eastward, but new disturbance approaching our extreme northwest coasts from the Atlantic.

## SUMMARY OF CHANGES IN THE WEATHER OVER THE BRITISH ISLANDS AND THEIR NEIGHBOURHOOD FROM THE 2<sup>ND</sup> TO THE 8<sup>TH</sup> MARCH 1890

The weather of this week was at first cold and fairly quiet, but afterwards became mild and very unsettled, with strong winds or gales in many parts of the Kingdom.

At the beginning of the period the depression which lay off our East coasts on Saturday the 1<sup>st</sup> was travelling away over the Bay of Biscay, and while strong NE winds and snow showers were reported over the southern and eastern parts of England, variable breezes and fair weather prevailed in the west and north. A large anticyclone now moved over our Islands from the north and northwest, and fair weather became general, with very low temperature for the time of year. On the night of the 3<sup>rd</sup> the thermometer fell to 15° in London, to 16° at Cambridge, and to 13° at Greenwich and Dungeness, while in some parts of Kent and Surrey very much lower values are said to have been registered.

As the anticyclone receded over France, some large depressions began to skirt our North coasts on their way to Scandinavia, and mild, W winds gradually extended over the entire Kingdom. In the night the breezes were at first moderate in force, but in the North they frequently blew strongly, and on the night of the 6<sup>th</sup> a strong to whole gale was experienced in the north of Scotland. Temperature in the meantime fell briskly over the northern parts of Great Britain.

At the close of the week, a large and complex depression moved eastwards directly across Scotland, and heavy snow fell in the northern parts of the Kingdom, with strong squally winds from the W and NW over Ireland and England, and a thunderstorm at York. At Malin Head a violent gale from the N<sup>W</sup> prevailed for a short time on Saturday afternoon.

## EXPLANATION OF COLUMNS GIVEN ON PAGE 1.

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

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

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

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



# DAILY WEATHER REPORT.

for Tuesday 11<sup>th</sup> March 1890.

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

Issued by the Meteorological Office, 63, Victoria Street, London. R. H. SCOTT, Secretary.																		
STATIONS.	YESTERDAY EVENING.					8 A.M. TO DAY.										PAST 24 HOURS.		
	BAROM.  Reading at 32° F. and Sea Level.	TEMP.  Dry.	WIND.		Weather.	BAROMETER.		SHADE TEMP.			WIND.		Weather.	Sea. (0 to 9.)	SHADE TEMP.		Amount of Rainfall.	
			Dirce.	Force. (0 to 12.)		Reading at 32° F. and Sea Level.	Difference from 8 a.m. yesterday.	Dry.	Wet.	Difference from 8 a.m. yesterday.	Dirce.	Force. (0 to 12.)			Max.	Min.		
SCANDINAVIA.																		
Haparanda ...	29.49	17	W	2	C	29.39	+18	10	9	-5	SE	2	0	*	26	?	—	
Hernösand ...	29.77	15	S	0	C	29.14	-35	30	30	+9	S	9	0	*	34	14	0.04	
Stockholm ...	30.01	24	S	0	C	29.41	-15	34	32	+10	S	6	0	*	36	23	—	
Wisby ...	30.06	31	SEW	4	C	29.69	-02	33	31	+4	SEW	8	0	*	36	25	—	
Bodö ...	29.49	26	WNW	4	C	29.86	-47	23	20	-5	E	6	0	3	28	18	—	
Christiansund	29.30	31	SE	8	0	29.73	-12	38	37	+11	WSEW	8	0	4	39	37	0.24	
Skudesnaes ...	29.58	41	S	8	T	29.30	-46	44	43	+8	W	8	0	5	?	?	0.55	
Christiania Fjord (Færder)	29.73	34	SE	6	0	29.15	-68	38	38	+12	SEW	7	0	5	?	?	—	
Skagen (The Seaw)	29.73	36	SW	7	0	29.41	-48	42	42	+10	WSEW	7	0	4	43	32	0.28	
Fanö ...	29.88	36	SEW	4	0	29.79	-23	40	40	+6	WSEW	6	0	*	41	34	0.32	
Sumburgh Head	29.33	45	WSEW	4	T	29.26	-10	41	37	+1	WNW	6	0	6	48	40	0.06	
Stornoway ...	29.21	51	W	7	T	29.59	+05	44	43	+2	W	4	0	5	51	40	0.20	
Wick ...	29.42	45	SW	2	0	29.42	-08	43	41	+3	NW	8	0	5	49	37	0.15	
Nairn ...	29.46	50	WSEW	3	0	29.59	+01	46	46	+4	WSEW	5	0	2	51	41	0.28	
Aberdeen ...	29.56	44	S	2	om	29.58	-03	52	48	+11	W	3	0	2	54	40	—	
Leith ...	29.67	52	WSEW	5	0	29.78	+10	53	50	+5	W	6	0	*	56	45	0.04	
Shields ...	29.82	54	WSEW	3	0	29.88	+11	53	50	+2	WSEW	6	0	2	56	45	—	
Spurn Head ...	29.95	50	SW	3	0	30.01	+08	47	45	+6	WSEW	6	0	4	52	40	—	
York ...	29.95	53	W	3	0	30.05	+15	50	48	+5	WSEW	3	0	*	54	43	—	
Loughborough	30.04	53	W	4	C	30.12	+11	49	46	+6	W	4	0	*	53	42	0.02	
BRITISH ISLANDS.																		
Ardrossan ...	29.81	49	WSEW	4	0	29.87	+14	48	48	-2	WSEW	4	0	4	53	41	0.17	
Malin Head ...	29.75	49	SW	6	om	29.98	+09	51	50	+2	SW	7	om	7	51	48	0.04	
Mullaghmore ...	29.93	50	SW	6	om	30.00	+07	51	51	+1	WSEW	7	0	*	51	49	0.02	
Belmullet ...	29.95	51	WSEW	7	0	29.99	+15	52	51	0	W	5	0	3	57	52	0.01	
Donaghadee ...	29.88	53	NW	5	T	29.99	+15	52	51	0	W	5	0	3	57	52	0.01	
Liverpool (Bidston)	30.01	52	WSEW	6	0	30.10	+17	50	47	+1	WSEW	6	0	4	53	48	0.01	
Holyhead ...	30.04	49	WSEW	3	C	30.14	+16	48	46	+1	SW	4	0	3	51	47	0.01	
Parsonstown ...	30.09	51	SW	2	0	30.15	+11	51	49	0	SW	2	0	*	53	49	—	
Valencia ...	30.22	52	WSEW	6	om	30.28	+10	51	51	-1	WSEW	5	om	5	54	50	0.03	
Roche's Point...	30.19	52	W	5	bc	30.25	+10	52	49	0	W	4	0	4	54	50	—	
Pembroke (St. Ann's Hd.)	30.19	48	SW	6	0	30.27	+14	48	48	0	SW	5	om	5	49	47	—	
Scilly ...	30.33	51	WSEW	5	C	30.39	+07	50	49	+1	WSEW	4	0	4	53	47	—	
Prawle Point ...	30.33	47	SW	6	0	30.37	+08	48	47	+2	SW	5	0	3	48	46	0.18	
Jersey (St. Aubin's)	30.37	47	W	5	0	30.46	+04	50	48	+6	WSEW	5	om	4	50	43	—	
Hurst Castle ...	30.24	46	W	6	om	30.34	+09	46	45	0	W	5	om	4	47	38	0.06	
Dungeness ...	30.15	44	W	6	T	30.24	-02	46	44	+4	W	4	0	3	46	41	0.14	
London ...	30.17	51	WSEW	3	0	30.25	+06	50	47	+10	WSEW	3	0	*	52	40	0.19	
Oxford ...	30.18	48	WSEW	4	0	30.23	+08	48	46	+6	W	3	0	*	51	41	0.10	
Cambridge ...	30.11	50	SW	2	0	30.20	+11	49	47	+9	SW	2	0	*	53	38	0.08	
Yarmouth ...	30.01	50	WSEW	3	C	30.10	+03	49	47	+13	WNW	6	0	3	51	35	0.05	
GERMANY & HOLLAND.																		
Cuxhaven ...	30.13	41	SW	6	T	30.02	-15	42	42	+11	?	5	0	*	42	32	0.18	
Berlin ...	30.33	36	SW	4	0	30.20	-08	39	37	+8	SW	3	0	*	41	34	—	
Wiesbaden ...	*	*	*	*	*	30.39	0.0	38	37	+8	SW	1	0	*	45	?	—	
Munich ...	30.45	29	W	1	C	30.45	+09	32	30	+3	SW	4	0	*	37	25	—	
The Helder ...	30.08	40	SW	4	F	30.09	-07	42	41	+5	SW	4	0	4	43	36	0.12	
FRANCE AND BELGIUM.																		
Brussels (9 a.m.)	*	*	*	*	*	30.29	-09	46	46	+15	WSEW	1	0	*	46	?	0.12	
Cape Gris Nez	*	44	SW	6	0	?	?	45	43	+6	SW	5	0	5	46	37	0.32	
Paris ...	30.41	44	SW	2	T	30.42	-03	46	45	+19	SW	2	0	*	46	41	0.08	
Brest ...	30.43	50	W	3	0	30.48	+07	50	48	+4	W	3	0	3	52	43	0.04	
Lorient ...	30.09	48	WSEW	3	0	30.49	0.0	49	47	+7	W	3	0	2	50	41	—	
Rochefort ...	30.57	44	NW	4	C	30.59	+09	46	45	+9	NW	3	0	2	50	?	—	
Belfort ...	30.37	38	S	1	C	30.43	+11	39	30	+7	NW	1	0	*	43	30	—	
Lyons ...	30.45	40	N	3	C	30.52	+19	37	33	+5	N	1	0	*	45	?	—	
Nice ...	30.10	50	SW	4	C	30.32	+14	44	35	-1	ENE	3	0	2	61	43	—	
Perpignan ...	29.54	46	NW	6	C	30.44	+42	45	37	+4	NW	5	0	*	53	32	—	
Biarritz ...	30.52	47	NNE	5	C	30.57	+10	39	36	+3	?	2	0	2	48	34	—	
SPAIN.																		
Corunna ...	*	*	*	*	*													
Lisbon ...	*	*	*	*	*													

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

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



# WEATHER CHARTS

for 8 a.m. on

Tuesday 11<sup>th</sup> March.

1890.

## 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.

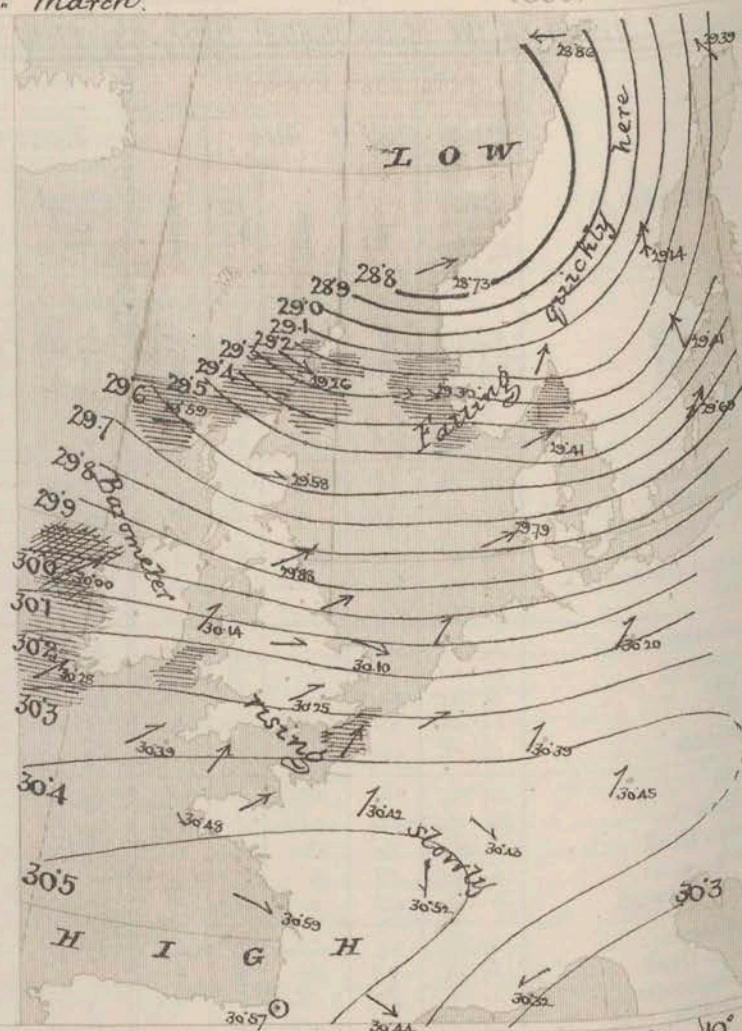
**SEA DISTURBANCE**—Where considerable, is shown thus:

▨ = Rough, ▩ = High.

## MEAN HEIGHT OF THE BAROMETER

at 8.0 a.m. for the month of March.  
During the 15 Years; 1871-1885.

STATIONS.	MEAN READINGS.
Sumburgh Head	29.761
Stornoway	29.779
Wick	29.707
Nairn	29.815
Aberdeen	29.830
Leith	29.862
Shields	29.896
York	29.925
Loughborough	29.948
Ardrossan	29.878
Donaghadee	29.892
Holyhead	29.910
Liverpool	29.925
Parsonstown	29.940
Valencia	29.938
Roche's Point	29.941
Pembroke	29.944
Sally	29.966
Jersey	29.971
Hurst Castle	29.968
Dover	29.955
LONDON	29.967
Oxford	29.966
Cambridge	29.957
Yarmouth	29.958



## 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.

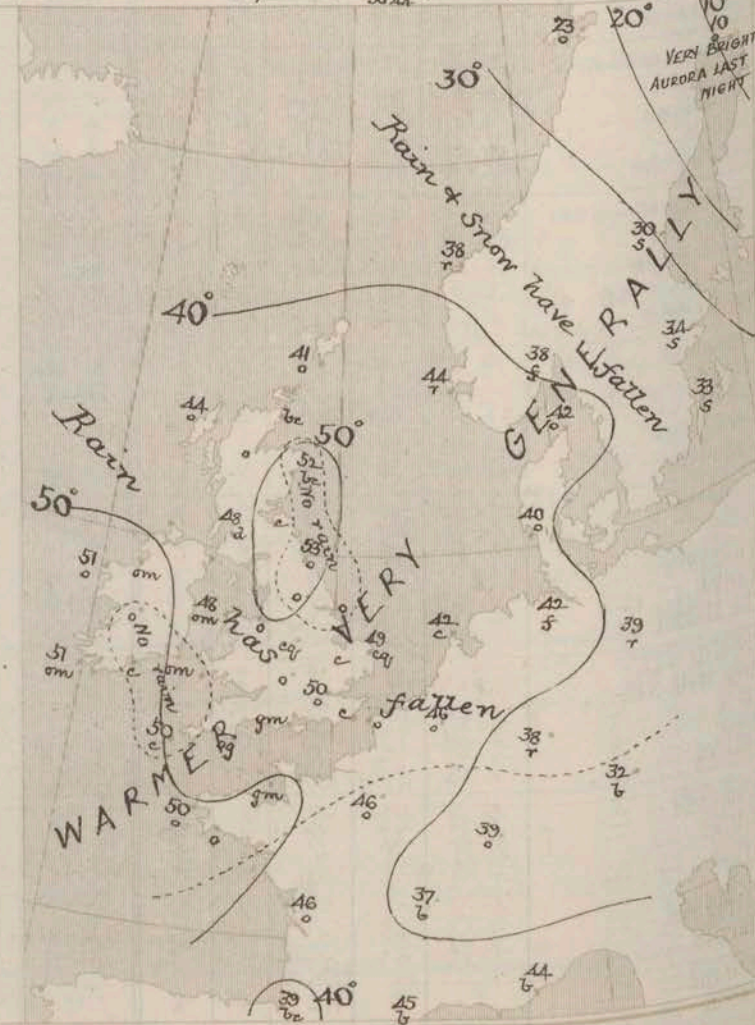
**WEATHER**—is shown by Letters of the Beaufort Scale.

**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 March.)

STATIONS.	TEMPERATURE.				RAINFALL (Inches.)
	Daily Max.	Daily Min.	at 8 a.m.	at 4 p.m.	
Sumburgh Head	42.6	34.0	38.5	37.1	2.92
Stornoway	44.9	34.4	39.2	38.0	3.87
Wick	44.7	33.9	39.1	37.2	1.97
Nairn	45.6	34.2	38.2	36.3	1.72
Aberdeen	45.4	34.7	38.9	36.8	2.21
Leith	48.2	34.6	39.7	37.9	1.36
Shields	45.9	35.4	39.6	38.0	1.60
York	48.9	35.7	38.6	37.1	1.63
Loughborough	49.8	34.3	39.3	37.7	1.47
Ardrossan	46.8	36.6	40.5	38.7	2.59
Donaghadee	47.3	37.1	41.0	39.7	1.99
Holyhead	47.6	39.2	42.5	41.0	2.21
Liverpool	47.3	37.1	40.3	38.7	1.69
Parsonstown	50.1	35.5	41.2	39.6	2.35
Valencia	51.6	40.6	45.4	43.4	4.24
Roche's Point	50.2	40.0	43.8	42.1	3.71
Pembroke	47.1	39.5	42.5	40.8	2.45
Sally	49.9	43.6	46.5	44.7	2.38
Jersey	49.9	40.5	44.7	42.7	2.32
Hurst Castle	48.3	37.7	41.6	40.7	1.80
Dover	46.9	37.8	41.6	39.9	1.86
LONDON	50.6	35.5	40.6	38.7	1.43
Oxford	49.3	35.2	39.4	37.9	1.52
Cambridge	50.6	33.3	39.2	37.7	1.23
Yarmouth	45.7	35.8	40.8	39.1	1.77

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





# GENERAL SITUATION AT 8 A.M.

## PRESSURE

Highest, 30.3 ins. to nearly 30.6 ins. in a high pressure area lying over the Bay of Biscay, Spain, France, and the Channel.  
Lowest, 28.8 ins. and less, in the northwest of Norway.

Gradients are steep over the greater part of Scandinavia, Denmark, and the North Sea, moderate to slight elsewhere.  
Barometer rising a little in our Islands and France, falling elsewhere.

## TEMPERATURE

Highest, 53° at Louth and Shields, 52° at Rock Point, Donaghadee, and Aberdeen, 51° at most of the Irish stations, 50° at York, in London and at Jersey.  
Lowest, 10° at Haparanda, 23° at Røss, 30° at Helsingfors, 32° at Munich, and 39° at Berlin; at Paris the temperature was 46°.

The daily maxima recorded in our Islands yesterday, varied from 50° to 57° in most regions. In London the thermometer did not fall below 48° all night.

## WIND

W<sup>ly</sup> and SW<sup>ly</sup> throughout almost the whole of our Islands, moderate to strong in force.

At Sumburgh Head and Wick, however, it is NW<sup>ly</sup> strong to a gale in force.

In Sweden a S<sup>ly</sup> gale is blowing and in Norway a W<sup>ly</sup> gale, except in the extreme north, where the wind is strong from E.

## WEATHER

Cloudy, very generally, fair over the British Islands as a whole, rainy in several parts of France, Germany and Norway.  
Snow is falling at the Swedish stations.

Rain fell yesterday in several parts of our Islands, but not in large quantity.

## SEA

Rough in the north and extreme west, moderate in the Irish and English Channels, slight or smooth elsewhere.

## PROBABLE CHANGES IN SYSTEM NOW PREVALENT

There is no important change indicated for the general conditions of the weather in our Islands and their neighbourhood.

## FORECASTS

For the 24 hours ending at NOON on 12<sup>th</sup> March

1890.

### DISTRICTS.

### FORECASTS.

0 SCOTLAND  
NORTH

1 SCOTLAND  
EAST

2 ENGLAND  
N.E.

3 ENGLAND  
EAST

4 MIDLAND  
COUNTIES

5 ENGLAND  
SOUTH

W<sup>ly</sup> to SW<sup>ly</sup> winds, varying much in force;  
fair to showery. Mild.

W<sup>ly</sup> and SW<sup>ly</sup> breezes, moderate; mild,  
fair as a whole, some showers later.

### DISTRICTS.

### FORECASTS

6 SCOTLAND  
WEST

7 ENGLAND  
N.W.

8 ENGLAND  
S.W.

9 IRELAND  
NORTH

10 IRELAND  
SOUTH

SW<sup>ly</sup> winds, fresh or strong;  
occasional showers.

### WARNINGS

NONE ISSUED.

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



# YESTERDAY'S 2 P.M. REPORTS.

THER: WIND								THER: WIND							
BAR:		D.	W.	D.	F.	WEA.	SEA	BAR:		D.	W.	D.	F.	WEA.	SEA
Skudesnaes ...	29.61	37	36	SPZ	4	L	5	Holyhead ...	30.03	49	49	W	4	mg	4
Sumburgh Head ...	29.40	44	43	WSPW	3	0	3	Valencia ...	30.20	53	51	WSPW	6	om	4
Stornoway ...	29.50	49	48	W	5	0	4	Scilly ...	30.33	52	50	WSPW	5	0	4
Aberdeen ...	29.64	46	41	SPW	1	om	3	Jersey ...	30.40	49	46	WSPW	5	0 8	5
Shields ...	29.81	53	50	W	5	0	2	Dungeness ...	30.15	44	43	WSPW	7	P	5
Ardrossan ...	29.77	48	48	WSPW	4	d	3	London ...	30.14	52	51	WSPW	4	om	4
Malin Head ...	29.75	49	49	SPW	6	0	4	Yarmouth ...	30.02	48	47	WSPW	4	C	4
Mullaghmore ...	29.51	51	50	SPW	6	om	5	Rochefort ...	30.57	42	40	NW	3	P	4
Belmullet ...	29.94	51	51	WSPW	8	om	*								

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

Weather fine in Sweden, Denmark, Germany, France and Spain, and also in the east of Scotland, cloudy or overcast elsewhere, with steady and continuous rain over the greater part of England, as well as in Tunis and some parts of Italy, and snow at Christiansund, Stockholm, Cracow and Vienna. Rain falling during day in most parts of Western Europe.

Temperatures highest 50° and upwards over Ireland, as well as at the Mediterranean stations (Cagliari and La Galle 55°, Oran and Algiers 54°, Nemours 53°, Valencia, Rochepoint, Palma and Brindisi 52°). Lowest 15° at Khabarouda, 19° at Moscow, 21° at Kurnovand, 24° at Stockholm, 26° at Tander, and 27° at Christiansund and Paris; frost prevailing in nearly all parts of Northern and Central Europe. Daily maxima exceeding 50° in nearly all parts of our Islands and France; thermometer reaching 56° at Leith and Shields and 57° at Donaghadee.

Wind SW or W over our Islands, the Netherlands, Denmark, the Baltic, and the Gulf of Finland; strong in force in many places, with gales at Helmsfors and Utsky. W over the northern parts of Scandinavia. Light from the N<sup>W</sup> (NW to NE) over the greater part of Central and Southern Europe, as well as in Algeria. Variable in the south of Russia. Subsequently increasing to moderate or fresh gale from the SW over our extreme northwestern coasts.

Barometer highest, 30.5 ins. and upwards, in an anticyclone lying over the Bay of Biscay, and also in another system lying over Central Russia. Lowest 29.2 ins. and less, in a depression lying over Lapland, 29.4 ins. and less, in another disturbance lying to the northward of the Shetlands, 29.5 ins. and less, in a third lying off the Tunisian coast. Gradients rather steep in most parts of Northern and Northwestern Europe. New depression subsequently approaching the northwest of Scotland, and barometer falling briskly in the Hebrides.

### EXPLANATION OF COLUMNS GIVEN ON PAGE 1.

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

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

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

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



# DAILY WEATHER REPORT.

for *Wednesday, 12<sup>th</sup> March,* 1890.  
*Issued by the Meteorological Office, 63, Victoria Street, London. R. H. SCOTT, Secretary.*

Issued by the Meteorological Office, 63, Victoria Street, London. R. H. SCOTT, Secretary.																		
STATIONS.	YESTERDAY EVENING.						8 A.M. TO DAY.										PAST 24 HOURS.	
	BAROM.  Reading at 32° F. and Sea Level.	TEMP.  Dry.	WIND.		Weather.	BAROMETER.  Reading at 32° F. and Sea Level.	Difference from 8 a.m. yesterday.	SHADE TEMP.			WIND.		Weather.	Sea. (0 to 6.)	SHADE TEMP.		Amount of Rainfall.	
			Dirce.	Force. (0 to 12.)				Dry.	Wet.	Difference from 8 a.m. yesterday.	Dirce.	Force. (0 to 12.)			Max.	Min.		
SCANDINAVIA.																		
Haparanda ...	28.63	27	S	2	0	29.17	- .22	18	17	+ 8	W	4	6	*	27	-2	0.59	
Hernösand ...	28.95	38	W	8	6	29.49	+ .35	34	30	+ 4	W	8	6	*	41	12	-	
Stockholm ...	29.34	41	W	8	6	29.71	+ .30	40	34	+ 6	W	8	6	*	46	23	0.04	
Wisby ...	29.53	38	SW	6	6	29.84	+ .15	37	35	+ 4	W	6	6	*	43	28	0.28	
Bodö ...	28.75	28	ENE	2	0	29.06	+ .20	30	27	+ 7	W	2	3	1	?	19	-	
Christiansund	29.15	40	W	9	6	29.51	+ .78	37	36	- 1	?	3	0	5	?	34	0.28	
Skudesnaes ...	29.76	41	W	6	7	29.73	+ .43	43	42	- 1	SSW	8	0	5	45	39	0.20	
Christiania Fjord (Færd)	29.53	42	W	7	6	29.80	+ .63	36	37	0	W	6	0	4	45	36	-	
Skagen (The Seaw)	29.80	40	W	5	6	29.93	+ .52	40	39	- 2	W	3	0	3	45	37	-	
Fanö ...	30.02	?	W	4	0	30.10	+ .31	39	39	- 1	W	4	0	*	41	37	-	
Sumburgh Head	29.61	43	W	6	0	29.87	+ .11	48	47	+ 7	W	6	7	6	48	41	0.56	
Stornoway ...	29.76	43	W	3	7	29.58	- .01	49	47	+ 5	W	8	0	7	53	41	0.12	
Wick ...	29.80	47	W	5	0	29.57	+ .15	52	50	+ 9	SW	6	6	4	52	40	0.12	
Nairn ...	29.80	48	W	2	0	29.65	+ .06	54	50	+ 8	SW	3	6	1	54	46	0.03	
Aberdeen ...	29.85	48	W	2	0	29.75	+ .17	51	48	- 1	SW	4	6	3	55	42	0.04	
Leith ...	29.93	53	W	6	0	29.92	+ .14	52	52	- 1	SW	5	0	*	55	50	0.02	
Shields ...	30.04	55	W	4	0	30.04	+ .16	54	49	+ 1	W	6	6	2	55	50	-	
Spurn Head ...	30.10	50	W	4	0	30.18	+ .17	48	46	+ 1	SW	3	6	3	53	43	-	
York ...	30.14	54	W	3	0	30.16	+ .11	53	48	+ 3	W	4	6	*	56	48	-	
Loughborough	30.24	54	W	3	0	30.28	+ .16	50	46	+ 1	W	3	6	*	60	46	-	
BRITISH ISLANDS.																		
Ardrossan ...	29.96	50	W	6	6	29.98	+ .11	48	48	0	SW	6	6	5	50	47	0.08	
Malin Head ...	29.95	49	W	7	6	29.91	+ .04	50	50	0	SW	6	6	4	51	46	0.03	
Mullaghmore ...	30.11	51	SW	6	0	30.04	+ .06	51	50	0	SW	7	6	7	52	50	0.02	
Belmullet ...	30.10	52	SW	7	0	30.04	+ .04	50	50	- 1	W	8	6	5	52	50	0.10	
Donaghadee ...	30.05	54	W	5	6	30.08	+ .09	52	50	0	SW	5	6	3	56	51	-	
Liverpool (Bidston)	30.22	53	W	3	0	30.25	+ .15	50	46	0	SW	4	6	3	56	47	-	
Holyhead ...	30.23	48	SW	3	0	30.25	+ .11	47	46	- 1	SW	3	6	3	53	46	-	
Parsonstown ...	30.24	52	SW	1	0	30.20	+ .05	52	49	+ 1	SW	1	6	*	56	50	0.01	
Valencia ...	30.34	53	SW	5	0	30.28	+ .00	52	50	+ 1	SW	6	6	5	55	50	-	
Roche's Point...	30.33	52	W	4	0	30.32	+ .07	50	47	- 2	W	3	6	4	56	49	-	
Pembroke (St. Ann's Hd.)	30.34	48	W	4	0	30.36	+ .09	48	47	0	W	4	6	4	49	47	0.02	
Scilly ...	30.45	51	W	4	0	30.41	+ .02	50	47	0	W	4	6	3	56	47	-	
Prawle Point ...	30.44	47	W	4	0	30.44	+ .07	48	46	0	W	2	6	2	51	46	-	
Jersey (St. Aubin's)	30.48	49	W	5	0	30.48	+ .02	49	46	- 1	W	3	6	3	52	47	-	
Hurst Castle ...	30.39	48	W	5	0	30.40	+ .06	48	46	+ 2	W	4	6	4	50	44	-	
Dungeness ...	30.30	45	W	5	6	30.36	+ .12	41	41	- 5	W	2	6	1	55	40	-	
London ...	30.33	51	W	3	6	30.36	+ .11	46	45	- 4	W	1	6	*	57	39	-	
Oxford ...	30.36	49	W	3	0	30.36	+ .13	43	43	- 5	SW	2	6	*	57	40	-	
Cambridge ...	30.27	51	SSW	1	6	30.33	+ .13	46	45	- 3	SW	1	6	*	60	39	-	
Yarmouth ...	30.20	54	W	3	6	30.28	+ .18	44	43	- 5	W	3	6	3	58	40	-	
GERMANY & HOLLAND.																		
Cuxhaven ...	30.09	42	W	6	0	30.24	+ .22	43	43	+ 1	W	3	6	*	47	41	-	
Berlin ...	30.23	?	W	5	?	30.33	+ .13	44	43	+ 5	W	2	6	*	46	32	0.08	
Wiesbaden ...	*	*	*	*	*	30.45	+ .06	43	41	+ 5	W	0	6	*	46	?	0.04	
Munich ...	30.48	39	SW	1	0	30.49	+ .04	37	37	+ 5	W	3	6	*	41	32	0.04	
The Helder ...	30.24	42	SW	2	6	30.28	+ .19	41	40	- 1	SW	2	6	2	46	41	-	
FRANCE AND BELGIUM.																		
Brussels (9 a.m.)	*	*	*	*	*	30.40	+ .11	47	45	+ 1	SSW	3	6	*	51	45	-	
Cape Gris Nez	?	44	W	5	6	?	?	43	42	- 2	W	3	6	3	48	41	-	
Paris ...	30.47	52	W	1	0	30.45	+ .03	47	45	+ 1	W	1	6	*	55	45	-	
Brest ...	30.48	51	W	1	0	30.48	+ .00	50	48	0	W	0	6	3	52	43	-	
Lorient ...	30.52	49	W	3	0	30.50	+ .01	49	47	0	W	0	6	4	50	45	-	
ROCHEFORT.																		
Belfort ...	30.57	48	W	3	0	30.50	- .09	47	46	+ 1	W	3	6	?	54	39	-	
Lyons ...	30.42	41	W	1	0	30.37	- .06	42	34	+ 3	SW	1	6	*	45	35	-	
Nice ...	30.52	44	W	2	0	30.44	- .08	41	41	+ 4	W	2	6	*	48	?	-	
Perpignan ...	30.53	48	W	4	6	30.32	- .00	47	41	+ 3	SW	3	6	0	55	?	-	
Biarritz ...	30.43	53	W	5	6	30.30	- .14	49	47	+ 4	W	0	6	*	61	?	0.04	
Corunna ...	30.53	47	ENE	4	0	30.41	- .16	46	45	+ 7	W	2	6	2	50	?	0.08	
Lisbon ...	*	*	*	*	*	30.15	*	48	39	*	W	5	6	2	63	48	-	

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

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



# WEATHER CHARTS

for 8 a.m. on Wednesday, 12<sup>th</sup> March, 1890.

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 March.  
During the 15 Years: 1871—1885.

STATIONS.	MEAN READINGS.
Sumburgh Head	29.751
Stornoway	29.779
Wick	29.797
Nairn	29.815
Aberdeen	29.830
Leith	29.862
Shields	29.896
York	29.925
Loughborough	29.948
Ardrossan	29.876
Donaghadee	29.892
Holyhead	29.919
Liverpool	29.925
Parsonstown	29.940
Valencia	29.938
Roche's Point	29.941
Pembroke	29.944
Silly	29.966
Jersey	29.971
Hurst Castle	29.966
Dover	29.955
LONDON	29.967
Oxford	29.960
Cambridge	29.957
Yarmouth	29.938

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

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

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

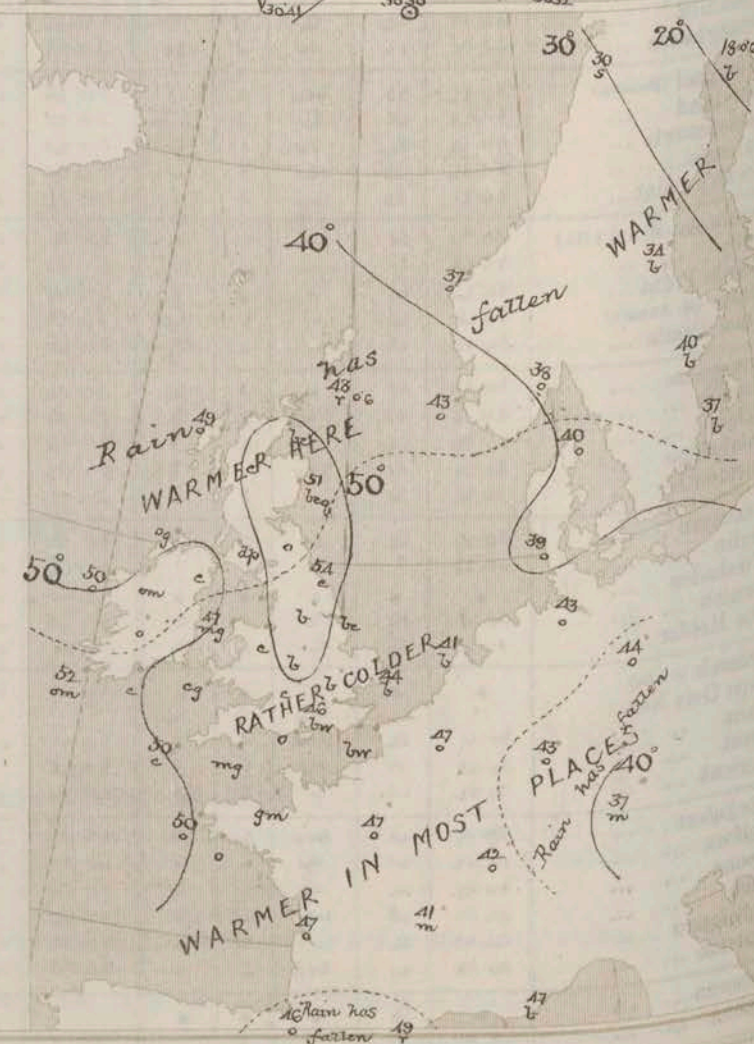
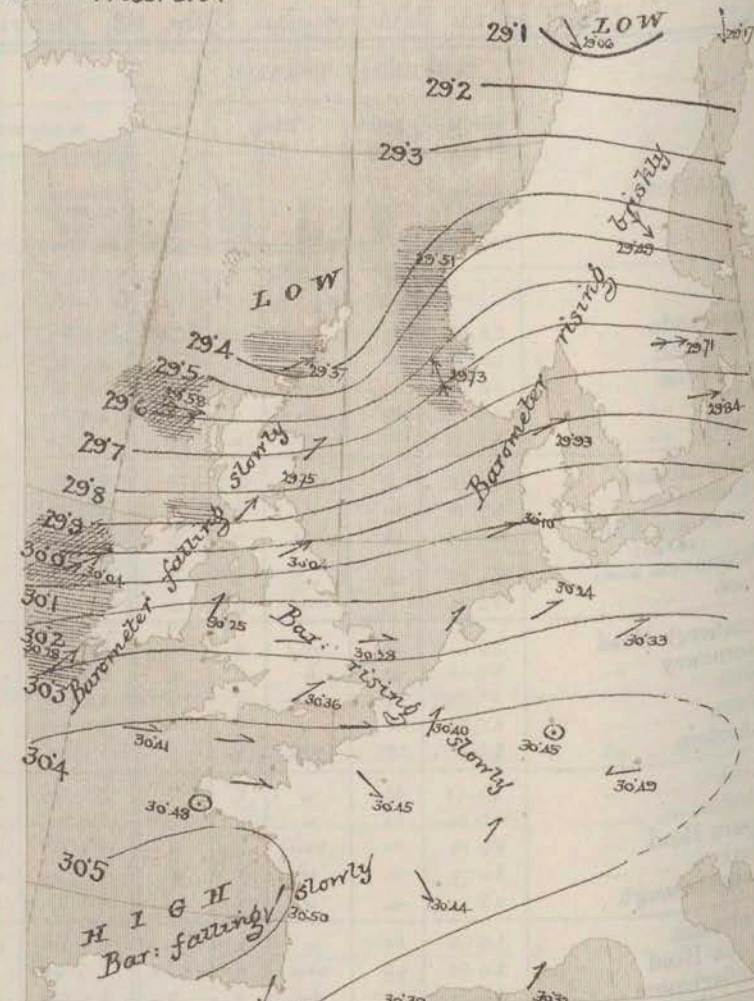
**RAINFALL**—A dotted line separates the districts in which rain has fallen from those where there has been none. Falls of 0.5 in. or more, are quoted in figures.

## MEANS OF TEMPERATURE IN SHADE, AND RAINFALL.

(For the month of March.)

STATIONS.	TEMPERATURE.				RAINFALL (Inches.)
	Daily Max.	Daily Min.	at 8 a.m. Dry.	Wet.	
Sumburgh Head	42.6	34.0	38.0	37.1	2.92
Stornoway	44.9	34.4	39.2	38.0	3.87
Wick	44.7	33.9	39.1	37.2	1.97
Nairn	45.6	34.2	38.2	36.3	1.72
Aberdeen	46.4	34.7	38.9	36.8	2.24
Leith	48.2	34.6	39.7	37.9	1.36
Shields	45.9	35.4	39.6	38.0	1.60
York	48.9	33.7	38.6	37.1	1.03
Loughborough	49.3	34.3	39.5	37.7	1.47
Ardrossan	49.8	36.6	40.5	38.7	2.59
Donaghadee	47.3	37.1	41.0	39.7	1.99
Holyhead	47.6	39.2	42.5	41.0	2.21
Liverpool	47.3	37.1	40.8	38.7	1.69
Parsonstown	50.1	35.5	41.2	39.6	2.35
Valencia	51.6	40.6	45.4	43.4	4.24
Roche's Point	50.2	40.0	45.8	42.1	3.71
Pembroke	47.1	39.5	42.0	40.8	2.45
Silly	49.9	43.0	46.5	44.7	2.38
Jersey	49.9	40.5	44.7	42.7	2.32
Hurst Castle	48.3	37.7	41.6	40.7	1.89
Dover	46.9	37.8	41.6	39.9	1.86
LONDON	50.6	35.8	40.0	38.7	1.43
Oxford	49.5	35.2	39.4	37.9	1.52
Cambridge	50.6	33.3	39.2	37.7	1.33
Yarmouth	45.7	35.8	40.8	39.1	1.77

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





# GENERAL SITUATION AT 8 A.M.

## PRESSURE

Highest, 30.4 in. to 30.5 in. and upwards, in an anticyclone the central portion of which lies over the Bay of Biscay.  
 Lowest, 29.1 in. and less, in the north of Scandinavia.  
 Gradients rather steep in the north, but moderate or slight elsewhere.  
 Barometer falling a little in the west and north of our Islands, as well as at the French stations, but rising elsewhere.

## TEMPERATURE

Highest, 54° at Kinn and Shields, 53° at York, and 52° at Wick, Lough Lade, Rossmore and Valencia.  
 Lowest, 18° at Kaparanda, 30° at Bodø, 34° at Harstad, 37° at Christiansund and Nibby, and 38° at Fausen.  
 During yesterday the thermometer rose to 57° in London and at Bedford, 58° at Yarmouth, and 60° at Loughborough and Cambridge.

## WIND

Chiefly SW<sup>3</sup> or W<sup>3</sup>, strong in force on our north and northwest coasts, with a gale at Rotterdam.  
 N<sup>1</sup> or NW<sup>1</sup> at most of the French stations; light and variable in Germany.

## WEATHER

Fine in the eastern parts of Great Britain and also in Sweden.  
 Cloudy or overcast elsewhere, with rain at Burnburgh Head and snow at Bodø.  
 Slight rain fell yesterday at several of the Irish and Scotch stations.

## SEA

High or rough on our extreme north and northwest coasts, but moderate to smooth elsewhere.

## PROBABLE CHANGES IN SYSTEM NOW PREVALENT

The barometric fall in the west and north is at present slight, and no very material increase in the force of the wind is probable. A gradual extension of cloudy and less settled weather is, however, likely to take place over our Islands.

## FORECASTS

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

1890.

### DISTRICTS.

### FORECASTS.

- |   |                  |  |
|---|------------------|--|
| 0 | SCOTLAND NORTH   | SW <sup>3</sup> and W <sup>3</sup> winds, strong; squally, rain at times |
| 1 | SCOTLAND EAST    | SW <sup>3</sup> winds, fresh; some showers, bright intervals.            |
| 2 | ENGLAND N.E.     |  |
| 3 | ENGLAND EAST     | SW <sup>2</sup> breezes, moderate and fresh; fair, warm.                 |
| 4 | MIDLAND COUNTIES |  |
| 5 | ENGLAND SOUTH    |  |

### DISTRICTS.

### FORECASTS

- |    |               |  |
|----|---------------|--|
| 6  | SCOTLAND WEST | Same as N° 0.  |
| 7  | ENGLAND N.W.  |  |
| 8  | ENGLAND S.W.  | SW <sup>3</sup> breezes, fresh; some showers.        |
| 9  | IRELAND NORTH | Same as N° 0.  |
| 10 | IRELAND SOUTH | SW <sup>3</sup> breezes, fresh or strong; some rain. |

### WARNINGS

NONE ISSUED.

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



# YESTERDAY'S 2 P.M. REPORTS.

	BAR:	THER:		WIND		WEA.	SEA		BAR:	THER:		WIND		WEA.	SEA
		D.	W.	D.	F.					D.	W.	D.	F.		
Skudesnaes ...	29.55	45	41	W	7	r	5		Holyhead ...	30.21	49	47	SSW	3	om
Sumburgh Head ...	29.48	44	40	WSW	7	c	6		Valencia ...	30.33	54	52	SW	5	om
Stornoway ...	29.74	47	45	W	5	o	5		Scilly ...	30.44	53	51	WSW	4	c
Aberdeen ...	29.78	54	48	W	3	c	2		Jersey ...	30.50	57	49	WSW	4	o
Shields ...	29.97	54	51	WSW	5	o	2		Dungeness ...	30.28	49	46	W	5	bc
Ardrossan ...	29.95	50	49	WSW	5	r	4		London ...	30.29	56	52	WSW	3	c
Malin Head ...	29.40	49	49	WSW	7	o	5		Yarmouth ...	30.14	58	53	W	5	bc
Mullaghmore ...	30.07	52	50	SW	7	om	6		Rocheport ...	30.61	53	51	W	2	o
Belmullet ...	30.08	53	52	WSW	7	o	*								

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

Weather cloudy or overcast in all parts of Northern and Northwestern Europe and also in Algeria, with rain in Germany and the west of Norway and snow in Sweden. Fine over Russia, Austria, and the whole of Southern Europe. Sky clearing later in many parts of Great Britain, but slight rain falling at several of the Scotch and Irish stations.

Temperature highest 55° and upwards over the Central and Southern parts of the Mediterranean (Nemours 61°, Malta 59°, Algiers and La Galle 55°); high 50° to 53° in many parts of the United Kingdom. Lowest 10° at Haparanda, 12° at Ulsborg, 16° at Kuspio, 19° at Hermannstadt, 21° at Archangel, 23° at Koda, 24° at St. Petersburg; below the freezing point at nearly all the Swedish, Russian, and Austrian stations. Subsequently rising to between 55° and 60° over the Central and Eastern parts of Great Britain.

Wind W<sup>3</sup> or SW<sup>3</sup> over the greater part of Northwestern Europe, but NW<sup>2</sup> in the extreme north of Scotland, strong in force in many places, with a gale in Caithness and the west of Norway. Strong to a gale from the S<sup>3</sup> over Sweden and the Baltic. N<sup>3</sup> or NE<sup>4</sup> over Italy, the Iberian Peninsula, and the south of France; light and variable over Austria and the south of Russia. Subsequently varying to the W<sup>3</sup> in Sweden, but no great change observed elsewhere.

Barometer highest 30.5 ins. <sup>and upwards</sup> over France and the Bay of Biscay; 30.3 ins. and more in a broad band extending right across Europe from Russia to the southeast of our Islands and the north of Spain. Lowest 29.8 ins. and less, in a large and deep depression lying off the northwest of Norway, low 29.9 ins. and less, in a shallow disturbance lying over the Central parts of the Mediterranean. Gradients steep over Northern and Northwestern Europe. Norwegian depression subsequently travelling northwards and barometer rising briskly in the north.

### EXPLANATION OF COLUMNS GIVEN ON PAGE 1.

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

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

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

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



# DAILY WEATHER REPORT.

for *Thursday, 15<sup>th</sup> March,* 1890.  
 Issued by the Meteorological Office, 63, Victoria Street, London. *R. H. SCOTT, Secretary.*

Issued by the Meteorological Office, 63, Victoria Street, London. R. H. SCOTT, Secretary.																		
STATIONS.	YESTERDAY EVENING.					8 A.M. TO DAY.										PAST 24 HOURS.		
	BAROM.  Reading at 32° F. and Sea Level.	TEMP.  Dry.	WIND.		Weather.	BAROMETER.		SHADE TEMP.			WIND.		Weather.	Sea. (0 to 9.)	SHADE TEMP.		Amount of Rainfall.	
			Direc.	Force. (0 to 12.)		Reading at 32° F. and Sea Level.	Difference from 8 a.m. yesterday.	Dry.	Wet.	Difference from 8 a.m. yesterday.	Direc.	Force. (0 to 12.)			Max.	Min.		
SCANDINAVIA.																		
Haparanda ...																		
Hernösand ...														*				
Stockholm ...	29.36	34	S	2	b	29.41	- 0.08	39	35	+ 5	SW	4	bc	*	41	30		
Wisby ...	29.65	43	S	7	o	29.73	+ 0.02	41	38	+ 1	WSW	4	b	*	46	37		
Bodö ...	29.83	44	SSW	8	o	29.89	+ 0.05	43	42	+ 6	WSW	6	bc	*	46	37		
	29.19	29	E	4	bc	28.99	- 0.07	30	27	0	NNE	4	s	2	39	27	0.35	
Christiansund																		
Skudesnaes ...	29.12	45	WSW	7	r	29.42	- 0.09	41	39	+ 4	WSW	8	r	6	45	?	0.20	
Christiania Fjord	29.80	44	S	6	o	29.63	- 0.10	44	43	+ 1	S	8	af	5	?	41	0.20	
(Fæder)	29.64	41	WSW	7	b	29.69	- 0.11	39	38	+ 1	SW	5	m	4	41	36		
Skagen (The Scaw)																		
Fanö ...	29.84	42	W	5	m	29.82	- 0.11	42	41	+ 2	SW	8	m	3	46	39		
	30.09	38	WSW	4	b	29.99	- 0.11	38	38	- 1	SW	4	c	*	43	37		
Sumburgh Head																		
Stornoway ...	29.49	46	WSW	7	o	29.35	- 0.02	45	44	- 3	SW	3	o	6	49	43	0.12	
Wick ...	29.68	45	W	6	r	29.32	- 0.26	43	42	- 6	SW	6	o	5	49	39	0.20	
Nairn ...	29.66	48	W	6	bc	29.40	- 0.17	46	44	- 6	SW	2	o	2	54	40	0.15	
Aberdeen ...	29.72	49	W	8	c	29.43	- 0.22	50	46	- 4	SW	3	c	3	56	43	0.15	
	29.79	51	SSW	6	cqu	29.56	- 0.19	48	45	- 3	SSW	4	cqu	4	63	48	0.01	
BRITISH ISLANDS.																		
Leith ...	29.86	54	WSW	6	c	29.64	- 0.28	49	46	- 3	SSW	3	o	*	55	48		
Shields ...	30.00	54	SW	4	c	29.79	- 0.25	48	44	- 6	S	8	c	2	59	44		
Spurn Head ...	30.11	48	SSW	3	c	29.93	- 0.25	45	43	- 3	SW	4	o	2	56	41		
York ...	30.12	56	SW	2	c	29.90	- 0.26	46	43	- 7	SSW	2	o	*	60	40		
Loughborough																		
	30.19	53	WSW	2	b	29.99	- 0.29	45	42	- 5	SW	3	o	*	61	41		
Ardrossan ...	29.90	48	SW	4	o	29.65	- 0.33	46	45	- 2	SSW	6	o	5	48	45	0.06	
Malin Head ...	29.86	49	SW	6	o	29.53	- 0.38	46	44	- 4	SW	7	op	4	51	45	0.10	
Mullaghmore ...	29.91	51	SSW	7	d	29.64	- 0.40	46	45	- 5	SW	6	or	6	54	46	0.16	
Belmullet ...	29.88	50	WSW	7	ou	29.66	- 0.38	47	45	- 3	W	7	o	*	52	45	0.22	
Donaghadee ...	29.99	55	SW	5	c	29.71	- 0.37	47	46	- 5	WSW	6	o	4	56	46		
Liverpool (Bidston)																		
Holyhead ...	30.16	49	SW	3	b	29.90	- 0.35	46	42	- 4	SW	3	b	8	58	45		
Parsonstown ...	30.13	47	SW	5	o	29.87	- 0.38	45	44	- 2	SSW	5	oggm	5	51	45		
Valencia ...	30.07	53	Z	0	c	29.78	- 0.42	49	47	- 3	SW	2	o	*	58	44		
Roche's Point...	30.11	51	SSW	6	om	29.84	- 0.44	48	47	- 4	WSW	4	om	4	53	47	0.07	
	30.16	50	WSW	4	c	29.90	- 0.42	48	48	- 2	WSW	4	rm	4	53	46	0.07	
Pembroke (St. Ann's Hd.)																		
Scilly ...	30.23	47	SSW	4	b	29.97	- 0.39	46	45	- 2	SSW	4	og	4	50	44		
Prawle Point ...	30.29	49	SW	3	o	30.02	- 0.39	48	45	- 2	SSW	4	o	5	52	46		
Jersey (St. Aubin's)	30.32	47	W	2	o	30.07	- 0.37	44	44	- 4	SSW	2	og	2	50	43		
Hurst Castle ...	30.36	51	WSW	3	o	30.12	- 0.36	46	44	- 3	SW	3	oggm	3	52	45		
	30.30	48	WSW	3	og	30.09	- 0.31	45	44	- 3	W	3	oggm	2	51	44		
Dungeness ...																		
London ...	30.25	45	WSW	4	b	30.08	- 0.28	45	43	+ 4	WSW	4	c	2	52	40		
Oxford ...	30.29	49	WSW	2	b	30.06	- 0.30	44	41	- 2	SW	2	o	*	60	40		
Cambridge ...	30.24	45	SW	3	b	30.05	- 0.31	44	41	+ 1	SW	3	o	*	57	43		
Yarmouth ...	30.22	51	SSW	1	b	30.03	- 0.30	45	42	- 1	SW	1	o	*	60	35		
	30.21	47	SSW	2	bc	30.05	- 0.23	43	41	- 1	SW	2	cgm	3	57	38		
GERMANY & HOLLAND.																		
Cuxhaven ...																		
Berlin ...	30.23	44	SW	4	c	30.14	- 0.10	43	42	0	SSW	2	f	*	47	42		
Wiesbaden ...	30.32	46	SW	3	o	30.21	- 0.12	37	36	- 7	SE	2	c	*	50	36		
Munich ...	*	*	*	*	*	30.20	- 0.28	41	39	- 2	Z	0	o	*	50	39		
The Helder ...	30.35	36	NE	2	b	30.21	- 0.28	31	31	- 6	W	3	f	*	48	30		
	30.23	41	SW	2	b	30.06	- 0.22	41	40	0	SSW	2	c	2	46	39		
FRANCE AND BELGIUM.																		
Brussels (9 a.m.)																		
Cape Gris Nez	*	*	*	*	*	30.15	- 0.25	45	43	- 2	WSW	1	o	*	53	45		
Paris ...	?	43	WSW	2	b	?	?	42	40	- 1	WSW	4	o	3	50	41		
Brest ...	30.34	49	WSW	1	o	30.19	- 0.26	45	42	- 2	SE	1	o	*	?	44		
Lorient ...	30.33	50	WSW	1	o	30.11	- 0.37	47	45	- 3	Z	0	o	4	52	43		
	30.33	50	Z	0	o	? 30.08	- 0.42	46	43	- 3	E	2	o	4	52	45		
Rochefort ...																		
Belfort ...	30.32	51	NE	3	o	30.17	- 0.33	40	39	- 7	SE	3	bc	2	54	34		
Lyons ...	30.25	43	S	1	bc	? 30.15	- 0.22	43	34	+ 1	SE	1	o	*	48	34		
Nice ...	30.34	44	N	2	m	30.24	- 0.20	43	40	+ 2	SSW	1	b	*	46	40	0.04	
Perpignan ...	30.27	50	SW	4	b	30.21	- 0.11	45	40	- 2	E	5	bc	1	59	41		
Biarritz ...	30.26	51	E	2	b	30.17	- 0.13	38	38	- 11	S	2	b	*	59	?		
	30.25	48	NNE	2	o	30.09	- 0.32	39	37	- 7	ESE	5	m	3	50	36		
Corunna ...																		
Lisbon ...	*	*	*	*	*													
	29.97	60	NE	5	b	29.95	- 0.20	47	43	- 1	N	3	bc	2	64	46		

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

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



## 1890

EXPLANATION OF MAP

☺ = dead calm.

*During the 15 Years: 1871—1885.*

This is a hand-drawn weather map of Europe and the North Atlantic, likely from a historical meteorological record. The map shows isobars (lines of equal pressure) and isotherms (lines of equal temperature). Key features include:

- Pressure Systems:** A low-pressure system (L) is located over the North Atlantic, with a barometer reading of 29.3. A high-pressure system (H) is located over the British Isles, with a barometer reading of 30.2. Another high-pressure system (H) is located over the Mediterranean, with a barometer reading of 30.21.
- Temperature:** Isotherms are drawn across the map, with values ranging from 29.0 to 30.2. A barometer reading of 29.9 is noted as "Bar. inclined to rise".
- Weather Systems:** A "Bar. rising" system is noted over the British Isles, and a "Bar. falling" system is noted over the Mediterranean.
- Other Labels:** The word "Barometer" is written vertically on the left side. The word "Bar." is written vertically on the right side. The word "Bar. rising" is written vertically on the right side. The word "Bar. falling" is written vertically on the right side.

Hand-drawn map of Europe with handwritten notes and numbers. The map shows latitude lines at 30°, 40°, and 50°. Handwritten text includes "Rain was fallen", "GENERALLY", "COLDER", "RATHER", and "Rain was fallen". Numbers are scattered across the map, often with small circles or letters next to them. A dashed line runs from the top left to the bottom right, and a solid line runs from the top right to the bottom left.



# GENERAL SITUATION AT 8 A.M.

## PRESSURE

Highest, 30.1 in: to 30.2 in: and more, over the Channel, France, and Germany.  
Lowest, 29.0 in: and less, over Lapland, 29.3 in: and less, to the north-west of Scotland.

Gradients are rather steep in the north, slight in the extreme south.

Barometer is inclined to rise again in the west of Scotland, but is still falling elsewhere.

## TEMPERATURE

Highest, 50° at Kairi, 48° at Aberdeen, Shields, Valencia, Rocher Point, and Scilly, 45° at Paris, 44° in London.

Lowest, (1) 30° at Bodo, and 39° at Hernsand (report from Hakaranda not in); (2) 31° at Munich, 37° at Berlin, 38° at Riga, and 38° at Kharkiv.

It rose to 63° at Aberdeen, 61° at Loughborough, and 60° at York and in London yesterday afternoon.

## WIND

SW<sup>ly</sup> throughout our Islands, moderate in the south and east, fresh in the west, strong in the extreme northwest.

SE<sup>ly</sup> to E<sup>ly</sup> in the southwest and south of France.

A S<sup>ly</sup> to SW<sup>ly</sup> gale, is reported in the west of Norway.

## WEATHER

Fine and bright in the south and southwest of France, cloudy or overcast elsewhere, with rain at some of our western stations and in Norway, snow at Bodo.

The rainfall measured at our most western and northern stations this morning, is slight though general.

## SEA

Rough in the north, rather so in the west; slight in the Channel and off our eastern coasts, rough on the coast of Norway.

## PROBABLE CHANGES IN SYSTEM NOW PREVALENT

A large "V" shaped depression, or "hollow", appears to be advancing over the British Islands from the SW<sup>ly</sup>, and in its rear the wind will probably veer to W. and NW. with a further fall of temperature.

## FORECASTS

For the 24 hours ending at NOON on 14<sup>th</sup> March. 1890.

### DISTRICTS.

### FORECASTS.

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

SW<sup>ly</sup> and W<sup>ly</sup> winds, strong; rainy, colder.  
 SW<sup>ly</sup> winds, moderate; cloudy, showery.  
 SW<sup>ly</sup> and W<sup>ly</sup> winds, moderate, cloudy, some rain, then finer, colder.

### DISTRICTS.

### FORECASTS



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

Same as N° 0.

W<sup>ly</sup> winds, moderate; changeable, colder.

### WARNINGS

NONE ISSUED

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



# YESTERDAY'S 2 P.M. REPORTS.

	BAR:	THER:		WIND		WEA.	SEA		BAR:	THER:		WIND		WEA.	SEA
		D.	W.	D.	F.					D.	W.	D.	F.		
Skudesnaes ...	29.94	45	44	SSW	6	o f	5		Holyhead ...	30.19	50	47	SSW	5	cm
Sumburgh Head ...	29.42	47	43	WSW	7	c	7		Valencia ...	30.20	53	50	SSW	6	cm
Stornoway ...	29.69	48	46	W	7	o	6		Scilly ...	30.30	52	49	WSW	3	o
Aberdeen ...	29.77	60	51	SW	6	bcq	4		Jersey ...	30.43	52	47	WSW	3	o
Shields ...	30.01	59	53	WSW	5	bc	2		Dungeness ...	30.29	49	46	W	4	6
Ardrossan ...	29.96	48	48	SW	4	r	3		London ...	30.29	60	53	WSW	2	6
Malin Head ...	29.94	48	48	WSW	4	o	3		Yarmouth ...	30.23	56	50	WSW	3	6
Mullaghmore ...	30.00	52	51	SW	7	sm	6		Rochefort ...	30.42	53	49	NE	4	o
Belmullet ...	29.98	51	51	WSW	7	sm	*								

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

Weather fine over the eastern parts of Great Britain, as well as over Sweden, the Baltic, Italy, and the Mediterranean. Cloudy or overcast elsewhere, with rain in the Shetlands, and snow at several of the Russian stations, as well as at Bodø. Rain falling later in the extreme west and north of our Islands, but weather remaining very fine in the east.

Temperature highest 50° and upward over Ireland and the northern parts of Great Britain, as well as at the Mediterranean stations, the highest readings of all being 55° at San Fernando, Cagliari, and La Palme, and 54° at Nauri, Shields, Brindisi and Oran. Lowest 18° at Haparanda, 23° at Uleaborg and Archangel, 24° at Moscow, 26° at Kiev, 29° at Kharkov, and 30° at Bodø; below 40° over Northern and Eastern Europe generally. Subsequently rising to 60° at York, Cambridge, and in London, 61° at Loughborough, and 63° at Aberdeen.

Wind SW<sup>ly</sup> or W<sup>ly</sup> over our Islands, Denmark, the Netherlands, the Baltic, and Central Russia, strong in force in the west and north of our Islands, with a gale in the Hebrides. Strong to a gale from W. or NW. over Sweden and the Gulf of Finland. Light to moderate from the N<sup>or</sup> or NE<sup>or</sup> over the greater part of Southern Europe; variable in Algeria. Subsequently increasing to a strong gale from NW at Wick.

Barometer highest 30.3 ins. to 30.5 ins. in a long and broad anticyclonic band extending from the north of Spain, the Bay of Biscay, and the southwest of our Islands across France and Central Europe to the south of Russia. Lowest, 28.8 ins. and less, in a depression lying over the White Sea and its neighbourhood; 29.4 ins. and less, in another disturbance lying to the northward of the Shetlands. Gradient rather steep in most parts of Northern and Northwestern Europe. Depression noticed off our extreme northern coast in morning, subsequently moving eastwards.

### EXPLANATION OF COLUMNS GIVEN ON PAGE 1.

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

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

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# DAILY WEATHER REPORT.

for Friday, 14<sup>th</sup> March,

1890.

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STATIONS.	YESTERDAY EVENING.					8 A.M. TO DAY.										PAST 24 HOURS.		
	BAROM.  Reading at 32° F. and Sea Level.	TEMP.  Dry.	WIND.		Weather.	BAROMETER.		SHADE TEMP.			WIND.		Weather.	Sea. (0 to 9.)	SHADE TEMP.		Amount of Rainfall.	
			Dir.	Force. (0 to 12.)		Reading at 32° F. and Sea Level.	Difference from 8 a.m. yesterday.	Dry.	Wet.	Difference from 8 a.m. yesterday.	Dir.	Force. (0 to 12.)			Max.	Min.		
SCANDINAVIA.																		
Haparanda ...	29.41	19	NW	4	b	29.53	+ .27	15	15	- 3	Z	0	s	*	36	1	0.20	
Hernösand ...	29.52	34	Z	0	bc	29.52	+ .11	42	39	+ 3	SEW	2	b	*	54	32	-	
Stockholm ...	29.77	44	WSW	4	0	29.79	+ .06	40	37	- 1	SW	2	0	*	54	37	-	
Wisby ...	29.93	41	SW	4	0	29.87	- .02	40	39	- 3	SW	5	0	*	48	37	-	
Bodö ...	?	31	SSW	2	b	29.14	+ .15	32	30	+ 2	E	4	0	?	34	25	-	
SCANDINAVIA.																		
Christiansund ...	29.22	41	ESE	3	0	29.39	- .03	42	37	+ 1	WSW	5	bc	5	43	32	0.12	
Skudesnaes ...	29.62	43	S	8	0	29.71	+ .08	43	42	- 1	SW	4	c	5	41	41	-	
Christiania Fjord (Færder) ...	29.67	39	SW	5	m	29.71	+ .02	38	38	- 1	SSW	5	f	4	39	36	-	
Skagen (The Seaw) ...	29.80	44	WSW	3	m	29.78	- .02	40	39	- 2	WSW	3	m	3	46	39	-	
Fanö ...	29.91	38	SW	2	0	29.84	- .15	38	37	- 0	SW	3	e	*	41	37	-	
SCANDINAVIA.																		
Sumburgh Head ...	29.30	43	WSW	4	bc	29.49	+ .19	41	38	- 4	WSW	4	c	6	46	40	0.17	
Stornoway ...	29.37	41	W	6	0	29.44	+ .07	38	35	- 3	W	5	f	4	46	34	0.16	
Wick ...	29.43	41	WSW	5	bc	29.51	+ .08	41	38	- 3	SW	3	bc	2	54	36	-	
Nairn ...	29.48	42	W	3	c	29.57	+ .09	40	37	- 3	SW	1	c	1	54	37	-	
Aberdeen ...	29.55	46	SW	4	bc	29.66	+ .11	38	36	- 2	SSW	3	b	2	53	36	-	
SCANDINAVIA.																		
Leith ...	29.65	47	WSW	3	c	29.69	+ .04	40	37	- 3	SSW	2	b	*	55	35	0.03	
Shields ...	29.70	49	SSW	3	0	29.74	- .04	44	42	- 2	S	2	0	2	55	40	0.01	
Spurn Head ...	29.80	46	SSW	3	0	29.78	- .02	43	43	- 2	SSW	4	0.2	2	51	42	-	
York ...	29.78	49	SSW	3	0	29.77	- .01	44	43	- 1	S	1	0	*	56	42	-	
Loughborough ...	29.86	47	SW	3	0	29.82	- .04	43	42	- 1	SSW	2	0	*	50	42	-	
BRITISH ISLANDS.																		
Ardrossan ...	29.65	45	WSW	3	0	29.67	+ .02	42	41	- 1	SSW	4	b	4	47	41	0.03	
Malin Head ...	29.62	44	WSW	6	c p	29.58	+ .04	38	37	- 1	S	5	0	3	47	37	-	
Mullaghmore ...	29.71	44	WSW	5	c	29.61	- .10	41	39	- 2	S	5	c	4	47	32	0.02	
Belmullet ...	29.72	45	W	6	b	29.56	- .16	44	43	- 1	SW	5	b	*	47	41	0.07	
Donaghadee ...	29.73	46	W	3	0	29.70	- .03	38	38	- 2	SW	3	b	2	51	33	-	
BRITISH ISLANDS.																		
Liverpool (Bidston) ...	29.79	46	W	3	0	29.77	- .02	43	41	- 2	SSW	1	0	2	53	41	0.04	
Holyhead ...	29.79	45	WSW	3	0 g m	29.76	- .03	42	41	- 1	SE	1	0 m	1	47	40	0.04	
Parsonstown ...	29.79	45	Z	0	c	29.72	- .07	35	34	- 1	Z	0	c	*	50	32	0.01	
Valencia ...	29.84	46	WSW	2	c m	29.70	- .14	47	44	- 3	S	5	c	5	50	38	0.01	
Roche's Point ...	29.83	47	NW	3	c	29.77	- .06	43	41	- 2	W	1	bc	3	50	34	0.02	
BRITISH ISLANDS.																		
Pembroke (St. Ann's Hd.) ...	29.83	45	SSW	5	r	29.79	- .04	42	42	- 4	E	1	0 g	3	48	41	0.17	
Scilly ...	29.87	47	WSW	5	0 d p	29.77	- .10	44	43	- 1	N	3	0	5	49	43	0.06	
Prawle Point ...	29.93	44	S	1	0	29.83	- .10	45	45	+ 1	S	2	0 g	2	45	43	0.02	
Jersey (St. Aubin's) ...	29.93	51	SE	2	c g m	29.87	- .06	40	40	- 6	WSW	1	f	1	53	36	-	
Hurst Castle ...	29.94	46	WSW	2	0 g	29.84	- .10	46	44	+ 2	Z	0	bc m	1	48	39	-	
BRITISH ISLANDS.																		
Dungeness ...	29.96	45	SW	3	bc	29.84	- .12	44	43	- 1	SSW	2	bc	1	48	41	-	
London ...	29.93	46	SSW	3	0	29.84	- .09	44	42	- 2	SSW	1	bc m	*	49	38	-	
Oxford ...	29.91	44	SW	2	0	29.84	- .07	42	42	- 2	S	1	0	*	46	39	-	
Cambridge ...	29.90	44	SW	1	c	29.85	- .05	41	41	- 4	Z	0	0	*	47	34	-	
Yarmouth ...	29.90	45	WSW	2	c	29.85	- .05	42	41	- 1	SW	1	bc	2	46	37	-	
GERMANY & HOLLAND.																		
Cuxhaven ...	30.08	44	SW	2	f	29.96	- .12	42	42	- 1	S	2	m	*	47	40	-	
Berlin ...	30.01	50	S	3	b	30.02	- .01	43	42	+ 1	WSW	2	0	*	55	37	-	
Wiesbaden ...	*	*	*	*	*	30.04	- .03	41	40	- 1	Z	0	0	*	43	39	-	
Munich ...	30.06	35	W	1	*	30.06	- .02	35	35	+ 4	S	1	f	*	43	?	0.04	
The Helder ...	29.94	42	SSW	2	c	29.90	- .04	38	38	- 3	SSW	1	f	1	43	34	-	
FRANCE AND BELGIUM.																		
Brussels (a.m.) ...	*	*	*	*	*	29.93	- .02	42	40	- 3	SSW	3	c	*	48	41	-	
Cape Gris Nez ...	?	44	SW	2	b	?	?	46	42	+ 4	S	2	0	1	48	41	-	
Paris ...	80.00	50	ESE	2	b	29.93	- .02	39	38	- 1	SE	2	b	*	58	38	-	
Brest ...	29.93	48	SW	1	0	29.85	- .08	46	44	- 2	S	1	m	3	52	43	-	
Lorient ...	29.94	48	ESE	1	b	29.84	- .10	40	40	- 6	ESE	2	b	5	54	37	-	
FRANCE AND BELGIUM.																		
Rochefort ...	30.02	51	WSW	1	b	29.94	- .08	42	41	+ 1	SE	3	c	?	63	36	-	
Belfort ...	30.01	43	NW	1	b	30.01	- .14	41	34	- 7	NW	1	a	*	52	35	-	
Lyons ...	30.02	55	ESE	1	b	30.05	- .03	43	39	- 4	E	1	bc	*	64	41	-	
Nice ...	30.10	49	SSW	4	c	30.14	- .04	45	41	- 4	E	4	b	1	59	43	-	
Perpignan ...	30.06	52	SE	3	0	29.98	- .08	51	50	+ 1	SE	3	r	*	61	2	0.04	
Biarritz ...	29.92	57	ESE	2	c	29.86	- .06	48	46	+ 2	ESE	3	0	3	63	46	0.32	
SPAIN.																		
Corunna ...	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
Lisbon ...	29.86	55	NW	2	b	29.87	- .01	51	48	+ 3	Z	0	0	2	63	3	-	

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

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



# WEATHER CHARTS

for 8 a.m. on

Friday, 14<sup>th</sup> March.

1890.

## 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.

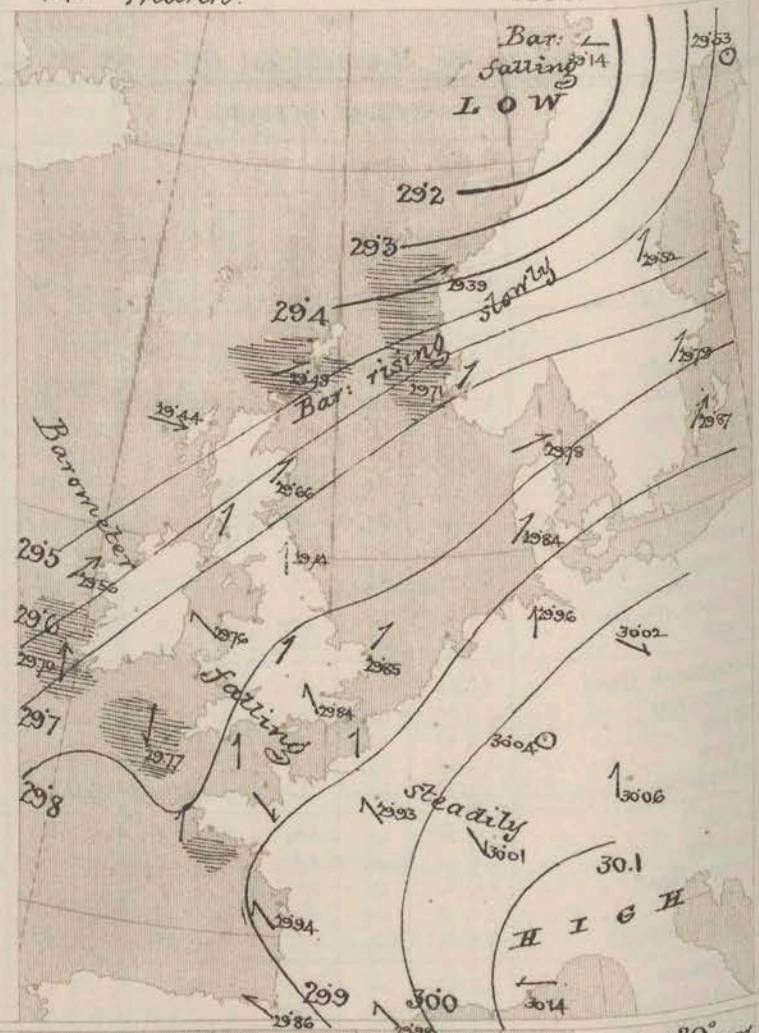
**SEA DISTURBANCE**—Where considerable, is shown thus:

— Rough. — High.

### MEAN HEIGHT OF THE BAROMETER

at 8.0 a.m. for the month of March.  
During the 15 Years: 1871—1885.

STATIONS.	MEAN READINGS.
	in.
Sumburgh Head .....	29.751
Stornoway .....	29.779
Wick .....	29.797
Nairn .....	29.815
Aberdeen .....	29.830
Leith .....	29.862
Shields .....	29.896
York .....	29.925
Loughborough .....	29.948
Ardrossan .....	29.876
Donaghadee .....	29.892
Holyhead .....	29.919
Liverpool .....	29.925
Parsonstown .....	29.940
Valencia .....	29.938
Roshe's Point .....	29.941
Pembroke .....	29.944
Sally .....	29.966
Jersey .....	29.971
Hurst Castle .....	29.966
Dover .....	29.955
LONDON .....	29.967
Oxford .....	29.966
Cambridge .....	29.957
Yarmouth .....	29.938



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

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

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

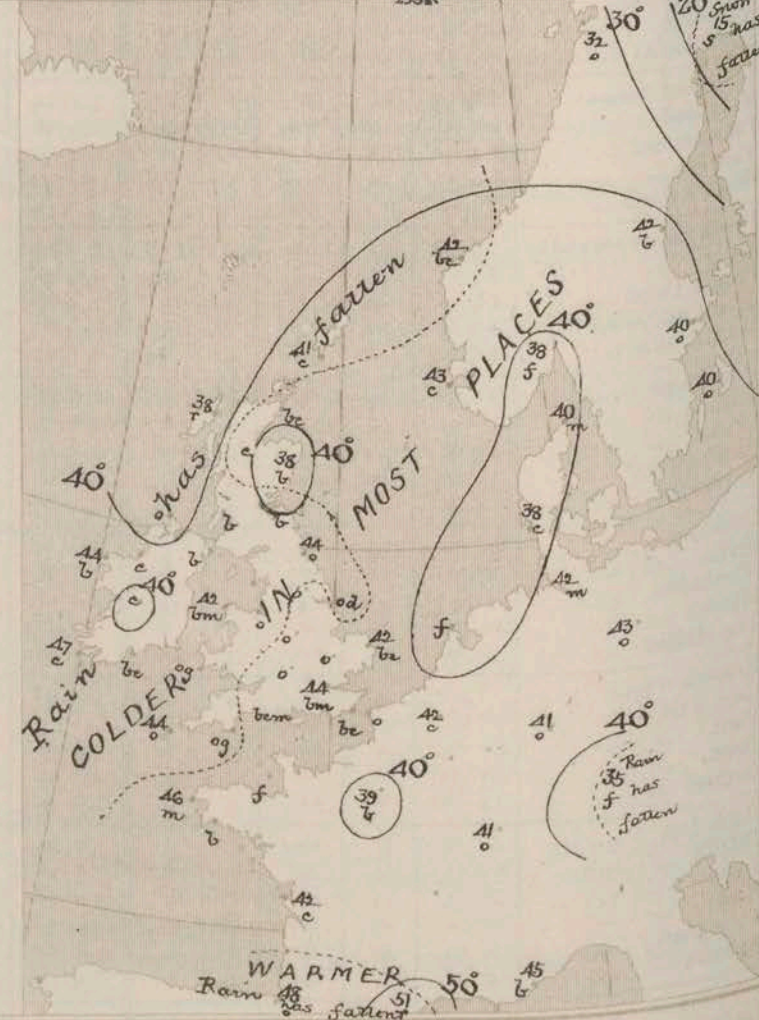
**RAINFALL**—A dotted line separates the districts in which rain has fallen from those where there has been none. Falls of 0.5 in. or more, are quoted in figures.

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

(For the month of March.)

STATIONS.	TEMPERATURE.				RAINFALL (Inches.)
	Daily Max.	Daily Min.	Day.	Night.	
Sumburgh Head .....	42.6	34.0	38.5	37.1	2.92
Stornoway .....	44.9	34.4	39.2	38.0	3.87
Wick .....	44.7	33.9	39.1	37.2	1.97
Nairn .....	45.6	31.2	38.2	36.8	1.72
Aberdeen .....	45.4	34.7	38.0	36.8	2.24
Leith .....	48.2	34.6	39.7	37.9	1.36
Shields .....	45.9	35.4	39.6	38.0	1.60
York .....	48.0	33.7	38.6	37.1	1.63
Loughborough .....	49.3	34.9	39.5	37.7	1.47
Ardrossan .....	46.8	36.6	40.5	38.7	2.59
Donaghadee .....	47.3	37.1	41.0	39.7	1.99
Holyhead .....	47.6	39.2	42.5	41.0	2.21
Liverpool .....	47.3	37.1	40.8	38.7	1.69
Parsonstown .....	50.1	35.6	41.2	39.6	2.35
Valencia .....	51.6	40.6	45.4	43.4	1.24
Roshe's Point .....	50.2	40.0	43.8	42.1	3.71
Pembroke .....	47.1	39.5	42.6	40.8	2.45
Sally .....	49.9	43.0	46.5	44.7	2.38
Jersey .....	49.9	49.5	44.7	42.7	2.33
Hurst Castle .....	48.3	37.7	41.6	40.7	1.80
Dover .....	46.9	37.8	41.6	39.0	1.86
LONDON .....	50.6	35.8	43.6	38.7	1.43
Oxford .....	49.5	35.2	39.4	37.6	1.62
Cambridge .....	50.6	33.5	39.2	37.7	1.53
Yarmouth .....	45.7	35.8	40.8	39.1	1.77

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





# GENERAL SITUATION AT 8 A.M.

## PRESSURE

Highest, 29.9 ins. to nearly 30.1 ins. over France and Germany.  
Lowest, 29.2 ins. and less, over the north of Norway, 29.4 ins. off the northwest of Scotland.  
 Gradients are moderate in the north, slight elsewhere, very variable over the Channel, owing to a local depression near the coast of Cornwall.  
 Barometer is falling except in the north, but not quickly.

## TEMPERATURE

Highest, 51° at Lisbon and Perpignan, 47° at Valencia, 46° at Brak and Hurst Castle.  
Lowest, 15° at Haparanda, 32° at Rode, 35° at Munich, 38° at Gander, Faro, the Lizard, Aberdeen, and Stornoway.  
 At Paris the morning temperature was 39°, at Berlin 43° and in London 44°. The daily maxima yesterday were not high, and there was a slight ground frost in London early this morning.

## WIND

Fresh S<sup>ly</sup> at the western stations; moderate to light elsewhere, and chiefly SE<sup>ly</sup> in France, S<sup>ly</sup> over Great Britain and the North Sea.  
 SW<sup>ly</sup> in Norway. At Rode, however, it is E<sup>ly</sup> and at Scilly N<sup>ly</sup>.

## WEATHER

Very dull in the southwest and west of England and at Rode; raining at Stornoway; snow is falling at Haparanda.  
 Rain fell yesterday at most of our western and northern stations and in the southwest of France, but the falls were slight.

## SEA

Rather rough on our southernmost coast and in the north; in the latter region it is going down. At Holyhead and Flungies it is very smooth.

## PROBABLE CHANGES IN SYSTEM NOW PREVALENT

There are no indications of any immediate change of importance.

# FORECASTS

For the 24 hours ending at NOON on 15<sup>th</sup> March 1890.

## DISTRICTS.

## FORECASTS.

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

S<sup>ly</sup> and SW<sup>ly</sup> breezes, moderate or fresh;  
 fair generally, warm.  
  
 S<sup>ly</sup> and Variable airs; fine generally, warm.

## DISTRICTS.

## FORECASTS

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

S<sup>ly</sup> and SW<sup>ly</sup> winds, fresh or strong;  
 dull, some rain.

## WARNINGS

NONE ISSUED.

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



# YESTERDAY'S 2 P.M. REPORTS.

		THER:		WIND				THER:		WIND				SEA	
	BAR:	D.	W.	D.	F.	WEA.	SEA		BAR:	D.	W.	D.	F.	WEA.	SEA
Skudesnaes ...	29.61	44	42	S	8	o f	6	Holyhead ...	29.80	46	46	SW	5	m d g	5
Sumburgh Head	29.27	43	44	WSW	3	c	5	Valencia ...	29.85	50	45	WSW	4	om	5
Stornoway ...	29.35	42	40	SW	6	c	5	Scilly ...	29.91	49	46	S	5	o	3
Aberdeen ...	29.50	52	45	SW	4	c q	4	Jersey ...	30.01	50	47	SSE	3	b	2
Shields ...	29.68	54	49	SW	5	c	2	Dungeness ...	29.98	48	45	WSW	3	bc	2
Ardrossan ...	29.65	47	45	WSW	3	o	3	London ...	29.96	49	46	SW	2	og	3
Malin Head ...	29.59	46	42	WSW	6	o	4	Yarmouth ...	29.93	46	42	WSW	3	c	3
Mullaghmore ...	29.70	45	41	WSW	7	e p	6	Rochefort ...	30.09	60	55	S	2	bc	?
Belmullet ...	29.72	46	44	W	5	b	*								

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

Weather cloudy or overcast in nearly all parts of Northwestern and Central Europe, as well as in the north of Scandinavia, with mist or fog in many places, rain at some of the Irish stations, and snow in Lapland. Fine at many of the Swedish and Russian stations, as well as over the whole of Southern Europe and the Mediterranean. Sky clearing later in many parts of Ireland and Scotland, but slight rain falling in the west and south-west of England.

Temperature highest, 50° to 60° over the Central and Southern parts of the Mediterranean (Algiers and La Palme 59°, Malta 55°, Brindisi 54°, Cagliari, Nemours and Sfax 53°) high 45° to 50° over the western and northern parts of the United Kingdom. Lowest 12° at Archangel, 16° at Uleaborg, 17° at Krasnoyarsk, 18° at Khabarovsk, 24° at Hermanstadt and 30° at Bodo; slight frost prevailing at some of the German stations. Daily maxima reaching 55° in the north of England but below 50° over our southern and southern counties.

Wind SW<sup>ly</sup> in most parts of Northwestern and Northern Europe, but SE<sup>ly</sup> in Lapland; gales reported in the west of Norway, and strong winds on the northwest coasts of our Islands. Light or moderate from the SE<sup>ly</sup> or E<sup>ly</sup> over France, and from the NE<sup>ly</sup> in Spain, but variable over Italy and the greater part of Central and Southern Europe. Subsequently veering to the W<sup>ly</sup> in the west and north of our Islands.

Barometer highest, 30.4 in. and upwards, over the south of Austria; 30.2 in. and upwards, in a large anticyclone covering the greater part of Central and Eastern Europe, and extending southwards over Italy. Lowest 29.0 in. and less, in a depression lying over the north of Norway, low 29.3 in. and less, in another disturbance lying off the north of Scotland. Latter disturbance subsequently moving eastwards, and barometer rising on our extreme western and northern coasts.

### EXPLANATION OF COLUMNS GIVEN ON PAGE 1.

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

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

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

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



# DAILY WEATHER REPORT.

for *Saturday, 15<sup>th</sup> March,* 1890.  
 Issued by the Meteorological Office, 63, Victoria Street, London. *R. H. SCOTT, Secretary.*

Issued by the Meteorological Office, 63, Victoria Street, London. R. H. SCOTT, Secretary.																	
STATIONS.	YESTERDAY EVENING.					8 A.M. TO DAY.										PAST 24 HOURS.	
	BAROM.	TEMP.	WIND.		Weather.	BAROMETER.		SHADE TEMP.			WIND.		Weather.	Sea. (0 to 12.)	SHADE TEMP.		
	Reading at 32° F. and Sea Level.	Dry.	Dir.	Force. (0 to 12.)		Reading at 32° F. and Sea Level.	Difference from 8 a.m. yesterday.	Dry.	Wet.	Difference from 8 a.m. yesterday.	Dir.	Force. (0 to 12.)			Max.	Min.	Amount of Rainfall.
SCANDINAVIA.																	
Haparanda ...	29.48	28	S	2	b	29.72	+ 1.9	24	23	+ 9	W	4	c	*	28	7	-
Hernösand ...	29.69	34	SW	2	b	29.96	+ 3.4	26	25	- 16	W	0	b	*	34	7	-
Stockholm ...	29.55	40	Z	0	o	29.95	+ 16	37	36	- 3	Z	0	f	*	48	37	-
Wisby ...	29.94	40	SW	4	o	29.98	+ 1.1	39	38	- 1	SW	4	c	*	43	37	-
Bodö ...	29.38	39	msw	0	b	29.70	+ 5.6	38	37	+ 6	SSW	2	c	2	39	?	0.24
CHRISTIANIA.																	
Christiansund ...	29.62	39	S	2	b	29.61	+ 2.2	37	34	- 5	SSW	3	b	4	45	36	-
Skudesnaes ...	29.74	42	SSW	6	o	29.69	- 0.2	43	41	0	SSW	6	o	4	45	39	-
Christiania Fjord (Farder) ...	29.79	38	SSW	2	f	29.86	+ 1.5	38	38	0	SSW	3	f	3	?	37	0.08
Skagen (The Scaw) ...	29.84	41	SW	2	m	29.83	+ 0.5	40	39	0	S	2	m	2	43	39	-
Faou ...	29.68	41	S	2	o	29.78	- 0.6	37	37	- 1	S	2	b	*	43	36	-
SCOTLAND.																	
Sumburgh Head ...	29.45	42	S	3	b	29.20	- 2.9	43	40	+ 2	SSW	6	o	6	45	39	-
Stornoway ...	29.24	45	SW	7	c	28.92	- 5.2	44	44	+ 6	SW	8	o	6	46	36	0.05
Wick ...	29.43	45	SW	4	o	29.18	- 3.3	44	41	+ 3	S	6	b	5	49	39	-
Nairn ...	29.44	42	SW	2	b	29.14	- 4.3	46	42	+ 6	SSW	3	c	3	56	38	-
Aberdeen ...	29.55	43	SSW	4	b	29.29	- 3.7	44	41	+ 6	SSW	6	c	5	47	38	-
ENGLAND.																	
Leith ...	29.57	45	W	1	b	29.33	- 3.6	46	43	+ 6	SSW	3	o	*	51	38	0.01
Shields ...	29.64	47	SSW	3	o	29.48	- 2.9	46	43	+ 2	SSW	4	c	2	50	40	-
Spurn Head ...	29.69	46	SSW	3	o	29.58	- 2.0	44	42	+ 1	SSW	5	b	3	49	41	-
York ...	29.70	48	S	1	c	29.53	- 2.4	42	40	- 2	S	1	b	*	49	38	0.01
Loughborough ...	29.73	50	SSW	2	c	29.58	- 2.4	44	43	+ 1	S	4	c	*	56	39	-
IRELAND.																	
Ardrossan ...	29.52	44	SE	4	b	29.25	- 4.2	46	45	+ 4	S	6	o	6	47	41	-
Malin Head ...	29.32	46	S	7	o	29.06	- 5.2	40	40	+ 2	S	5	r	3	48	37	0.11
Mullaghmore ...	29.35	47	SSW	8	o	29.09	- 5.2	42	40	+ 1	SSW	5	o	4	49	39	0.25
Belmullet ...	29.28	48	SSW	10	o	29.08	- 4.8	44	42	0	SSW	3	o	*	48	42	0.17
Donaghadee ...	29.54	44	SW	3	b	29.24	- 4.6	46	45	+ 8	SW	4	c	4	49	38	-
BRITISH ISLANDS.																	
Liverpool (Bidston) ...	29.67	46	SW	1	o	29.45	- 3.2	44	42	+ 1	SSW	3	o	3	50	41	-
Holyhead ...	29.65	44	SSW	3	b	29.36	- 4.0	46	44	+ 4	S	6	c	5	49	41	-
Parsonstown ...	29.51	45	SW	1	o	29.17	- 5.5	45	44	+ 10	SW	2	r	*	51	34	0.04
Valencia ...	29.43	48	S	7	o	29.15	- 5.5	44	43	- 3	SW	1	o	2	49	42	0.46
Roche's Point ...	29.57	47	S	5	c	29.21	- 5.6	47	47	+ 4	SSW	7	r	5	51	43	0.30
EUROPE.																	
Pembroke (St. Ann's Hd.) ...	29.68	44	SSW	3	b	29.37	- 4.2	47	46	+ 5	S	6	c	6	47	42	-
Scilly ...	29.69	47	SSW	3	b	29.38	- 3.9	48	47	+ 4	S	6	c	6	51	44	0.01
Prawle Point ...	29.75	46	S	2	o	29.55	- 2.8	47	46	+ 2	S	4	o	3	50	43	-
Jersey (St. Aubin's) ...	29.78	53	SE	1	b	29.65	- 2.2	48	46	+ 8	SE	4	b	3	55	39	-
Hurst Castle ...	29.81	47	S	1	c	29.63	- 2.1	47	46	+ 1	SW	5	o	5	54	44	-
FRANCE AND BELGIUM.																	
Dungeness ...	29.82	44	SW	3	b	29.69	- 1.5	45	44	+ 1	SSW	3	c	2	50	42	-
London ...	29.79	50	S	2	b	29.64	- 2.0	47	45	+ 3	S	3	o	*	58	43	-
Oxford ...	29.76	45	SSW	1	b	29.61	- 2.3	45	44	+ 3	SSW	3	c	*	52	42	-
Cambridge ...	29.77	49	S	1	o	29.63	- 2.2	45	44	+ 4	S	1	o	*	57	37	-
Yarmouth ...	29.77	43	S	2	c	29.69	- 1.6	44	43	+ 2	S	3	b	3	44	40	-
GERMANY AND HOLLAND.																	
Cuxhaven ...	29.90	44	SSW	2	b	29.91	- 0.5	39	37	- 3	SSW	2	m	*	50	33	-
Berlin ...	30.03	44	SW	1	o	30.04	+ 0.2	39	38	- 4	SSW	3	b	*	46	36	-
Wiesbaden ...	*	*	*	*	*	29.96	- 0.8	37	36	- 4	SE	1	b	*	48	32	-
Munich ...	30.06	36	SE	1	b	30.02	- 0.4	29	29	- 6	SE	3	b	*	50	27	-
The Helder ...	29.84	39	SSW	1	b	29.79	- 1.1	39	38	+ 1	SE	1	b	1	48	34	-
ITALY.																	
Brussels (9 a.m.) ...	*	*	*	*	*	29.81	- 1.2	49	45	+ 7	SSW	3	o	*	60	*	-
Cape Gris Nez ...	*	46	SSW	2	b	?	?	47	45	+ 1	S	3	o	2	50	43	-
Paris ...	29.89	55	S	2	b	29.84	- 0.9	47	45	+ 8	S	2	o	*	63	?	-
Brest ...	29.76	50	S	1	b	?	?	49	47	+ 3	S	4	o	4	?	45	0.04
Lorient ...	29.79	49	SSW	3	b	29.65	- 1.9	47	46	+ 7	S	2	b	5	55	39	-
SPAIN.																	
Rochefort ...	29.90	54	S	1	o	29.83	- 1.1	45	45	+ 3	SSW	3	f	?	57	37	0.04
Belfort ...	29.93	48	SW	1	b	29.91	- 1.0	45	38	+ 4	SW	1	f	*	59	38	-
Lyons ...	29.99	52	S	3	o	29.92	- 1.3	47	45	+ 4	SSW	1	o	*	63	43	0.04
Nice ...	30.13	49	E	6	o	30.03	- 1.1	50	46	+ 5	E	4	c	4	59	?	-
Perpignan ...	29.88	51	SW	2	c	29.88	- 1.0	43	42	- 6	SW	2	b	*	54	41	0.71
Biarritz ...	29.80	57	Z	0	o	29.76	- 1.0	54	48	+ 6	S	4	c	3	63	45	0.08
PORTUGAL.																	
Corunna ...	*	*	*	*	*	?	?	?	?	?	?	?	?	?	?	?	?
Lisbon ...	29.90	53	msw	1	c	29.88	+ 0.1	49	47	- 2	Z	0	b	5	59	46	-

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

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



# WEATHER CHARTS

for 8 a.m. on Saturday, 15<sup>th</sup> March.

1890

## 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:

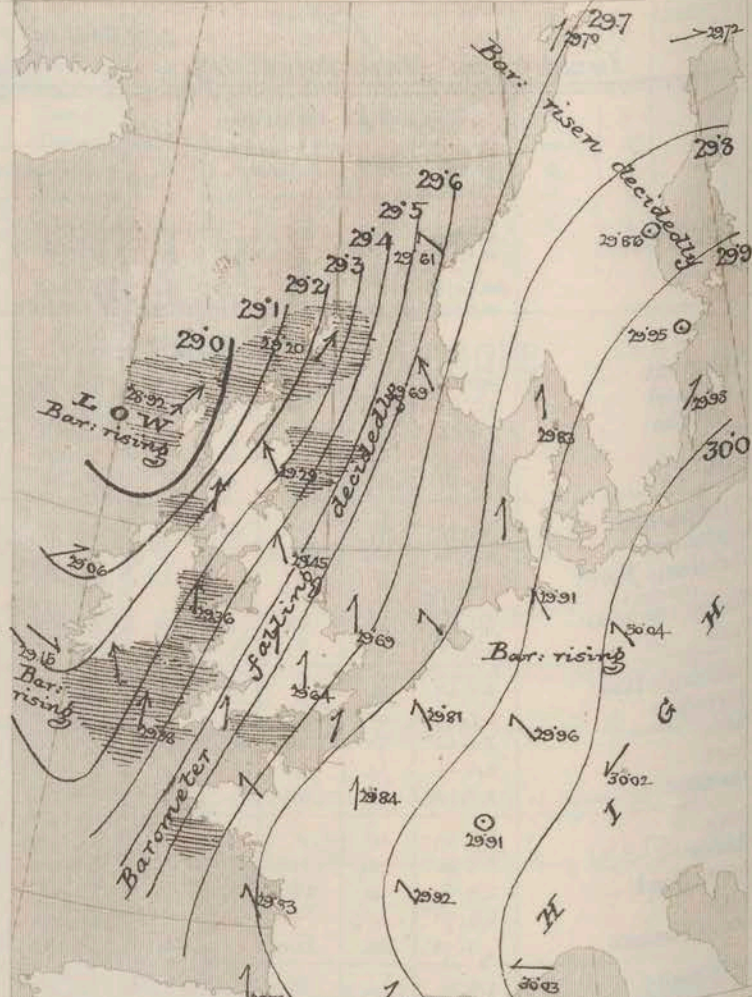
▨ = Rough. ▨ = High.

## MEAN HEIGHT OF THE BAROMETER

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

During the 15 Years: 1871—1885.

STATIONS.	MEAN READINGS.
	INS.
Sumburgh Head .....	29.751
Stornoway .....	29.779
Wick .....	29.797
Nairn .....	29.815
Aberdeen .....	29.830
Leith .....	29.862
Shields .....	29.896
York .....	29.925
Loughborough .....	29.948
Ardrossan .....	29.876
Donaghadee .....	29.892
Holyhead .....	29.919
Liverpool .....	29.925
Parsonstown .....	29.940
Valencia .....	29.938
Roche's Point .....	29.941
Pembroke .....	29.944
Silly .....	29.906
Jersey .....	29.971
Hurst Castle .....	29.960
Dover .....	29.955
LONDON .....	29.967
Oxford .....	29.960
Cambridge .....	29.957
Yarmouth .....	29.938



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

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

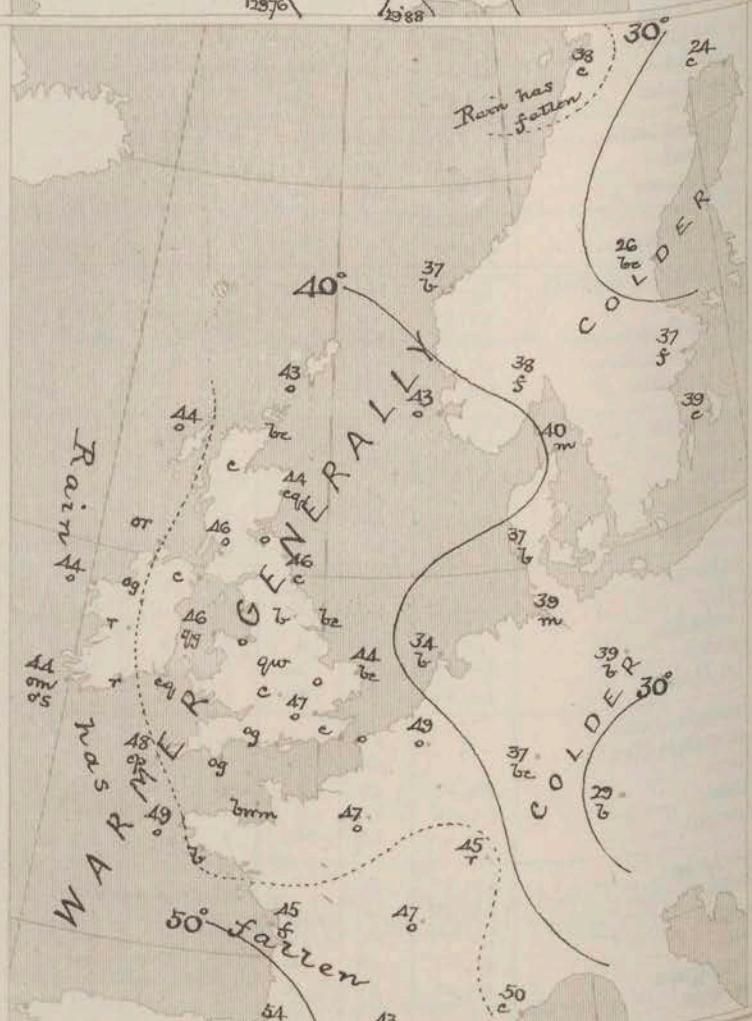
**WEATHER** is shown by Letters of the Beaufort Scale.

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

### MEANS OF TEMPERATURE IN SHADE, AND RAINFALL. (For the month of March.)

STATIONS.	TEMPERATURE.				RAINFALL. (Inches.)
	Daily Max.	Daily Min.	at 8 a.m.		
			Dry.	Wet.	
Sumburgh Head .....	42.6	34.0	38.5	37.1	2.92
Stornoway .....	44.9	34.4	39.2	38.0	3.87
Wick .....	44.7	33.9	39.1	37.2	1.97
Nairn .....	45.6	34.2	38.2	36.3	1.72
Aberdeen .....	45.4	34.7	38.9	36.8	2.24
Leith .....	48.2	34.6	39.7	37.9	1.36
Shields .....	45.9	35.4	39.6	38.0	1.60
York .....	48.9	33.7	38.6	37.1	1.63
Loughborough .....	49.3	34.3	39.5	37.7	1.47
Ardrossan .....	40.8	30.6	40.5	38.7	2.59
Donaghadee .....	47.3	37.1	41.0	39.7	1.99
Holyhead .....	47.6	39.2	42.5	41.0	2.21
Liverpool .....	47.3	37.1	40.8	38.7	1.69
Parsonstown .....	50.1	35.5	41.2	39.6	2.35
Valencia .....	51.6	40.6	45.4	43.4	4.24
Roche's Point .....	50.2	40.0	43.8	42.1	3.71
Pembroke .....	47.1	39.5	42.6	40.8	2.15
Silly .....	49.0	43.0	46.5	44.7	2.38
Jersey .....	49.9	40.5	44.7	42.7	2.32
Hurst Castle .....	48.3	37.7	41.0	40.7	1.80
Dover .....	46.9	37.8	41.6	39.9	1.86
LONDON .....	50.6	35.8	40.6	38.7	1.43
Oxford .....	49.5	35.2	39.4	37.9	1.52
Cambridge .....	50.6	33.8	39.2	37.7	1.33
Yarmouth .....	45.7	35.8	40.8	39.1	1.77

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





## GENERAL SITUATION AT 8 A.M.

### PRESSURE

Highest, 29.8 in. to 30.0 in. in a large high-pressure area lying over Germany, France, Holland, the Baltic and Sweden.  
 Lowest, 29.0 in. and less, off the northwest of Scotland, 29.2 in. and less over Ireland.  
 Gradients rather steep over the northern and northwestern parts of Great Britain, slight in Ireland and on the Continent.  
 Barometer beginning to rise again in the west and south of Ireland.

### TEMPERATURE

Highest, 54° at Biarritz, 50° at Nice, 49° at Lisbon and Brest, 48° at Jersey, 47° at Rocher Point, London, and Mount Park.  
 Lowest, 24° at Haparanda, 26° at Helsingfors, 29° at Munich, 37° at Metbaden and Tübingen.  
 The daily maxima registered yesterday exceeded 50° in many parts of our islands, and touched 56° at Kilm, 57° at Cambridge, and 58° in London.

### WIND

S over nearly the whole of our islands, strong to a gale in force on our northern and western coasts, moderate in the east and south.  
 In the west of Ireland, however, it has veered to the W<sup>nd</sup> and fallen light. Heavy gales were felt at Balmullick and Mullaghmore last night.

### WEATHER

Fine in the extreme northeast, east and southeast, dull elsewhere; very squally on our western coasts, with rain in places.  
 The rainfall measured in the west this morning was not heavy, but a considerable amount is reported from Spynnan.

### SEA

Rough on the western and northern coasts, slight or smooth elsewhere.

### PROBABLE CHANGES IN SYSTEM NOW PREVALENT

As the disturbance in the west and north passes off the weather is likely to improve considerably, especially in Ireland and Scotland, but the change will probably be temporary.

## FORECASTS

For the 24 hours ending at NOON on 16<sup>th</sup> March. 1890.

DISTRICTS.	FORECASTS.	DISTRICTS.	FORECASTS.
0 SCOTLAND NORTH 1 SCOTLAND EAST 2 ENGLAND N.E. 3 ENGLAND EAST 4 MIDLAND COUNTIES 5 ENGLAND SOUTH	S <sup>ly</sup> winds, strong, perhaps a gale, then SW <sup>ly</sup> more moderate; showery to fair.  S <sup>ly</sup> to W <sup>ly</sup> winds, moderate or light; some little rain, fine later. Rather cold tonight.	6 SCOTLAND WEST 7 ENGLAND N.W. 8 ENGLAND S.W. 9 IRELAND NORTH 10 IRELAND SOUTH	S <sup>ly</sup> winds, strong or a gale, to SW <sup>ly</sup> or W <sup>ly</sup> moderate; showery to fair and rather colder.  W <sup>ly</sup> to SW <sup>ly</sup> winds, changing greatly in force; rainy to fair, unsettled.
		WARNINGS	The SOUTH CONE has been lowered this morning in district 10, but is still flying in districts 0-1-6-7-8 and part of 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		WEA.	SEA		BAR:	THER:		WIND		WEA.	SEA
		D.	W.	D.	F.					D.	W.	D.	F.		
Skudesnaes ...	29.74	44	42	SSE	4	0	4	Holyhead ...	29.71	49	45	SSW	3	b	2
Sumburgh Head	29.49	43	41	SW	3	0	5	Valencia ...	29.57	49	46	S	7	0	6
Stornoway ...	29.36	46	45	SW	5	c	4	Scilly ...	29.74	51	48	SSW	3	b	2
Aberdeen ...	29.60	44	39	S	4	cqu	3	Jersey ...	29.84	50	47	SE	2	b	1
Shields ...	29.68	49	45	SSW	3	c	2	Dungeness ...	29.84	49	46	SSW	3	b	*
Ardrossan ...	29.60	46	43	SSW	4	b	3	London ...	29.79	57	49	WSW	2	c	2
Malin Head ...	29.45	48	45	S	6	b	4	Yarmouth ...	29.79	44	43	SE	3	b	
Mullaghmore ...	29.48	48	42	S	6	c	5	Rochefort ...							
Belmullet ...	29.40	49	46	SSW	10	0	*								

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

Weather varying greatly in different localities. Fair over the greater part of the United Kingdom, as well as in Austria and the southern parts of Spain and Italy, but raining in the Strides. Dull in most other countries, with fog in some parts of Central and Southern Europe, rain at some of the southern French stations, and snow at Archangel and Kharmand. Rain falling later in the west of Ireland.

Temperature highest 50° and upwards, at the Mediterranean stations (La Calle 53°, Algiers 58°, Cagliari 57°, Anvers 56°, and Brindisi and Ancona), lowest 15° at Kharmand, 19° at Uleaborg, 20° at Archangel, 23° at Konstantin, 32° at Riga and Prague, and 33° at Kaspia, Casan, and Nicolaieff. Rising during day to 55° and upwards over the Central parts of Great Britain, the highest reading being 58° in London.

Wind light from the SE<sup>rd</sup> in France, and from the SW<sup>rd</sup> over the greater part of England. Fresh from S. on our extreme western coast, moderate from the SW<sup>nd</sup> over the North Sea, the southern half of Scandinavia, Denmark and the Baltic; variable over Italy, Austria, and the south of France. Light from the E<sup>nd</sup> in Spain; S<sup>rd</sup> in Algeria. Subsequently increasing to a severe gale from the SW<sup>nd</sup> on the west coasts of Ireland, and to a moderate gale on our western and northern coasts generally.

Barometer highest 30.3 ins. and upwards, in a large anticyclone lying over the south of Russia, 30.2 ins. and upwards, in a small area lying over the south of Italy. Lowest, 29.2 ins. and less, in a depression lying off the northwest of Norway. Large disturbances subsequently moving northwards along the west coasts of our Islands, and barometer falling briskly at all our western stations.

### EXPLANATION OF COLUMNS GIVEN ON PAGE 1.

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

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

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

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



# DAILY WEATHER REPORT.

for Sunday 16<sup>th</sup> March. 1890.  
Issued by the Meteorological Office, 63, Victoria Street, London. R. H. SCOTT, Secretary.

Issued by the Meteorological Office, 63, Victoria Street, London. R. H. SCOTT, Secretary.																		
STATIONS.	YESTERDAY EVENING.					8 A.M. TO DAY.										PAST 24 HOURS.		
	BAROM.	TEMP.	WIND.		Weather.	BAROMETER.		SHADE TEMP.			WIND.		Weather.	Sea. (0 to 2.)	SHADE TEMP.		Amount of Rainfall.	
	Reading at 32° F. and Sea Level.	Dry.	Dir.	Force. (0 to 12.)		Reading at 32° F. and Sea Level.	Difference from 8 a.m. yesterday.	Dry.	Wet.	Difference from 8 a.m. yesterday.	Dir.	Force. (0 to 12.)			Max.	Min.		
SCANDINAVIA.																		
Haparanda ...	29.99	15	Z	0	c	30.09	+ .37	23	23	- 1	Z	0	f	*	26	14	-	
Hernösand ...	29.98	30	Z	0	f	30.01	+ .15	32	31	+ 6	Z	0	f	*	46	23	-	
Stockholm ...	30.04	37	Z	0	b	30.06	+ .11	29	37	+ 2	Z	0	c	*	50	36	-	
Wisby ...	30.06	38	W	4	b	30.06	+ .08	38	37	- 1	SSE	2	b	*	45	37	-	
Bodö ...	29.71	40	E	2	b	?	?	41	26	+ 3	E	6	c	3	41	37	-	
SCANDINAVIA.																		
Christiansund	29.50	46	SE	6	c	29.62	+ .01	47	41	+ 10	SE	6	b	4	47	37	-	
Skudesnaes ...	29.67	47	SE	7	o	29.60	- .09	46	44	+ 3	ESE	4	o	4	46	43	-	
Christiania Fjord (Pierder)	29.90	39	SSE	2	f	29.87	+ .01	39	38	+ 1	ENE	3	o	2	39	38	-	
Skagen (The Scaw)	29.88	39	S	3	m	29.81	- .02	39	39	- 1	S	3	m	3	42	39	-	
Faño ...	29.81	44	ESE	4	o	29.65	- .13	41	41	+ 4	E	4	c	*	54	37	-	
SCANDINAVIA.																		
Sumburgh Head	29.20	45	SSE	6	o	29.22	+ .02	45	44	+ 2	SSE	6	o	6	46	43	-	
Stornoway ...	29.08	43	SW	4	o	29.02	+ .10	35	35	- 4	NW	5	r	5	45	32	0.15	
Wick ...	29.17	44	S	2	o	29.18	- .05	45	42	+ 1	S	6	o	6	47	41	-	
Nairn ...	29.19	42	SW	2	r	29.06	- .08	50	45	+ 4	SSE	3	c	2	50	39	0.05	
Aberdeen ...	29.29	45	SSE	5	c	29.21	- .08	45	44	+ 1	SE	6	cqu	6	48	44	-	
SCANDINAVIA.																		
Leith ...	29.29	47	SE	3	c	29.16	- .17	46	44	0	SE	1	bc	*	52	44	0.01	
Shields ...	29.37	47	SSE	4	c	29.24	- .21	47	45	+ 1	SE	3	c	3	52	42	-	
Spurn Head ...	29.47	45	SSE	4	cm	29.28	- .30	43	42	- 1	SE	5	c	3	49	41	-	
York ...	29.44	32	S	2	c	29.25	- .28	49	46	+ 7	SE	1	bc	*	54	40	0.01	
Loughborough	29.47	49	SSE	3	c	29.24	- .34	47	45	+ 3	SE	3	bc	*	55	42	-	
BRITISH ISLANDS.																		
Ardrossan	29.10	47	SSE	5	o	29.03	- .22	47	45	+ 1	ESE	4	o	4	47	45	0.02	
Malin Head ...	29.12	43	SSE	3	o	28.91	- .15	40	40	0	NNW	4	or	2	44	38	0.69	
Mullaghmore ...	29.09	44	SE	4	o	28.98	- .11	40	38	- 2	NNW	5	og	4	45	35	0.59	
Belmullet ...	29.09	43	ESE	2	o	29.03	- .05	39	37	- 5	SW	2	o	*	48	37	0.20	
Donaghadee ...	29.17	46	SW	4	r	29.00	- .24	46	46	0	S	7	r	5	48	45	0.48	
BRITISH ISLANDS.																		
Liverpool (Bidston)	29.34	50	SSE	5	o	29.13	- .32	47	43	+ 3	SE	3	bc	3	54	43	-	
Holyhead ...	29.26	46	S	6	r	29.04	- .32	49	45	+ 3	SSE	5	cq	5	50	45	0.04	
Parsonstown ...	29.12	41	Z	0	r	29.03	- .14	36	35	- 9	SW	2	o	*	45	33	1.35	
Valencia ...	29.07	45	NNE	1	o	29.11	- .04	42	39	- 2	WNW	2	bc	3	48	39	0.07	
Roche's Point...	29.07	47	S	6	r	29.10	- .11	40	35	- 7	NW	4	bc	4	47	38	1.65	
BRITISH ISLANDS.																		
Pembroke (St. Ann's Hd.)	29.24	46	SSE	7	r	28.99	- .38	46	46	- 1	SE	7	pe	6	48	46	0.03	
Scilly ...	29.17	49	SSE	8	r	29.04	- .34	44	42	- 4	NW	6	o	7	51	43	0.30	
Prawle Point ...	29.38	48	SSE	5	o	29.11	- .44	47	46	0	SSE	5	og	4	49	45	-	
Jersey (St. Aubin's)	29.48	50	SSE	4	bc	29.19	- .46	48	46	0	SE	5	ogmion	4	52	46	-	
Hurst Castle ...	29.49	49	S	4	bc	29.21	- .42	49	49	+ 2	SSE	5	c	4	51	46	-	
BRITISH ISLANDS.																		
Dungeness ...	29.50	47	SW	3	b	29.33	- .36	47	45	+ 2	S	5	bc	3	49	44	-	
London ...	29.54	49	SSE	1	bm	29.27	- .37	49	47	+ 2	SE	3	c	*	55	44	-	
Oxford ...	29.47	48	? S	3	o	29.22	- .39	48	46	+ 3	SE	2	bc	*	53	45	0.04	
Cambridge ...	29.52	46	S	1	b	29.28	- .35	47	45	+ 2	SSE	1	o	*	55	41	-	
Yarmouth ...	29.60	44	S	3	bc	29.38	- .31	43	42	- 1	SSE	4	bc	3	45	40	-	
GERMANY & HOLLAND.																		
Cuxhaven ...	29.82	48	S	2	b	29.67	- .24	41	40	+ 2	SE	3	m	*	55	39	-	
Berlin ...	29.94	48	SE	3	b	29.77	- .27	41	40	+ 2	SE	3	o	*	52	37	-	
Wiesbaden ...	*	*	*	*	*	29.89	- .37	45	42	+ 8	Z	0	bc	*	52	37	-	
Munich ...	29.86	41	Z	0	b	29.60	- .42	35	34	+ 6	SE	2	o	*	55	29	-	
The Helder ...	29.67	47	SSE	1	c	29.49	- .30	44	43	+ 5	SE	1	b	1	52	39	-	
FRANCE AND BELGIUM.																		
Brussels (9 a.m.)	*	*	*	*	*	29.47	- .34	50	47	+ 1	SE	2	o	*	58	47	-	
Cape Gris Nez	?	51	S	1	b	?	- .34	48	48	+ 1	S	3	bc	2	54	45	-	
Paris ...	29.64	54	SE	3	b	29.43	- .41	50	45	+ 3	SE	3	c	*	62	46	-	
Brest ...	29.38	50	S	6	o	?	?	49	47	0	SW	5	r	8	54	45	0.08	
Lorient ...	29.45	48	SSE	4	m	29.16	- .49	49	47	+ 2	S	3	o	6	54	45	-	
FRANCE AND BELGIUM.																		
Rochefort ...	29.63	55	S	4	c	29.37	- .46	50	50	+ 5	SSE	5	r	2	61	43	-	
Belfort ...	29.77	48	SW	1	bc	?	?	48	47	+ 3	E	1	bc	*	59	37	-	
Lyons ...	29.76	54	SW	4	c	29.52	- .40	46	43	- 1	SW	3	bc	*	60	43	0.01	
Nice ...	29.86	54	E	6	o	29.59	- .44	50	48	0	E	7	o	7	59	45	0.12	
Perpignan ...	29.75	53	SE	2	r	29.48	- .40	51	50	+ 8	S	3	o	*	61	43	0.24	
Biarritz ...	29.64	61	S	6	bc	29.29	- .47	50	48	+ 2	S	7	o	5	64	54	-	
SPAIN.																		
Corunna ...	*	*	*	*	*	29.49	- .15	50	46	- 3	SW	5	bc	5	55	45	0.32	
Lisbon ...	29.55	53	SW	6	r	29.72	- .16	47	45	- 2	WNW	4	b	?	59	45	0.57	

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

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



## 1890

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

$\longrightarrow$  = forces 5 to 7;  $\longrightarrow$  = forces 1 to 4.

A hand-drawn map of the United States showing isobars and wind directions. The map includes labels for "Barometer rising", "generally", and "very". Isobars are labeled with values such as 29.0, 29.1, 29.2, 29.3, 29.4, 29.5, 29.6, 29.7, 29.8, 29.9, and 30.0. Wind directions are indicated by arrows, and a shaded area in the center is labeled "Low".



## GENERAL SITUATION AT 8 A.M.

### PRESSURE

*Highest*, 30.0 ins. to 29.5 ins. over Germany, the Baltic, and the countries lying to the eastward of the North Sea; and 29.7 to 29.4 ins. over Portugal and the N.W. of Spain.  
*Lowest*, 29.0 ins. and less, over the north of Ireland and off the northwest coast of Scotland, and 29.0 ins. to 29.2 ins. in a V-shaped secondary over the Irish Sea, and Bay of Biscay.  
*Gradients* moderate generally.  
*Barometer* rising at our most western stations, falling in the northeast and east.

### TEMPERATURE

*Highest*, 56° at Biarritz, 56° at Pau, Paris, and 54° at Holyhead, York and in London, 47° at Christiania and 43° at Haparanda, 32° at Helsingfors, 35° at Munich and Stockholm, 36° at Copenhagen, 39° at Stockholm, the Sea and Helmsletet.  
*Lowest*, 23° at Haparanda, 32° at Helsingfors, 35° at Munich and Stockholm, 36° at Copenhagen, 39° at Stockholm, the Sea and Helmsletet.  
 It rose to between 50° and 55° over England and at dawn yesterday; the night was not cold.

### WIND

SW<sup>ly</sup> to S<sup>ly</sup> over Spain and the west of France, moderate to strong in force.  
 SE<sup>ly</sup> over Great Britain, the two Channels, North Sea and Norway, moderate in the east, strong to a moderate gale in the west.  
 NW<sup>ly</sup> at most of the Irish stations, at Stockholm and at Seilly, moderate to strong.

### WEATHER

Fine in Portugal and also over the eastern, midland, and northwestern parts of England, cloudy, squally and unsettled in the west, with rain in places. Heavy falls of rain are reported at Dublin, Richmond, Lancaster, and considerable falls in the NW of Ireland.

### SEA

High at the mouth of the English Channel, and also at Looe, rough on our western and northern coasts generally, slight in the Straits of Dover.

### PROBABLE CHANGES IN SYSTEM NOW PREVALENT

## FORECASTS

For the 24 hours ending at NOON on 17<sup>th</sup> March, 1890.

#### DISTRICTS.

#### FORECASTS.

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

NONE ISSUED.

#### DISTRICTS.

#### FORECASTS

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

NONE ISSUED.

#### WARNINGS

The SOUTH CONE is still flying in districts 0, 1, 6 to 8, and part of 9

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



# YESTERDAY'S 2 P.M. REPORTS.

THER: WIND								THER: WIND							
BAR:	D.	W.	D.	F.	WEA.	SEA		BAR:	D.	W.	D.	F.	WEA.	SEA	
Skudesnaes ...	29.68	46	43	SSE	8	0	5	Holyhead ...	29.29	49	47	S	6	cq	6
Sumburgh Head	29.21	45	43	SSE	6	0	6	Valencia ...	29.11	48	45	NNW	1	om	1
Stornoway ...	29.07	42	42	SW	4	r	4	Scilly ...	29.27	51	48	S	7	0	7
Aberdeen ...	29.28	48	44	SSE	6	cq	5	Jersey ...	29.56	51	48	SSE	5	c	4
Shields ...	29.39	52	47	SSE	6	c	2	Dungeness ...	29.62	49	47	SSW	3	bc	2
Ardrossan ...	29.20	47	46	SSE	6	0	5	London ...	29.58	53	49	SSW	4	c	*
Malin Head	29.12	43	42	S	4	0	2	Yarmouth ...	29.61	45	44	SSE	4	bc	3
Mullaghmore	29.11	45	42	S	4	0	3	Rochefort ...	29.75	59	54	S	4	b	2
Belmullet ...	29.10	48	44	SW	2	c	*								

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

Weather in morning fine and bright over Italy, Austria-Hungary and Germany, as well as in the extreme east of England, Denmark, and the Baltic, where fog prevailed in several localities, cloudy or overcast elsewhere, with rain at several of our southern stations, in France, and some parts of Russia. Heavy rain in several parts of Ireland and the Iberian Peninsula, and heavy falls at several of the Mediterranean stations — notably at Cagliari, where fall amounted to nearly 3 ins.:

Temperature rain over Western Europe, changed irregularly elsewhere. Morning readings exceeding 50° at most of the Mediterranean stations and in the north of Spain (58° at Bilbao), ranging between 40° and 50° over the British Islands and France, but below 40° over Central and Eastern Europe, and as low as 24° at Kharavanda, 26° at Heribrand, 28° at Kuspio, 29° at Munich, and 32° at Vienna and Warsaw. Rising to between 50° and 55° over Great Britain later, to 60° or more in several parts of France and Italy, and to 68° at Salballe (Algeria).

Wind SE to S over almost the whole of Western and northwestern Europe, moderate to strong in force and squally. Very light and variable over Northern, Eastern, and Central Europe, fresh to strong from the E. on the northern shores of the Mediterranean. Rising to the W. in the extreme east of Ireland, and falling light and variable there during the day.

Barometer highest 30.0 ins. to nearly 30.5 ins. over Southeastern Europe and the south of Russia; 29.9 ins. and more over the southeastern half of Spain. Lowest 29.0 ins. and less, off the northwest of Scotland, and 29.1 ins. to 29.2 ins. in a V-shaped secondary lying over Ireland. A very small depression forming off the south of Ireland. The V-shaped disturbance moving eastwards later, and the small secondary in the southwest undergoing slight alterations and finally advancing eastwards towards the Bristol Channel.

### EXPLANATION OF COLUMNS GIVEN ON PAGE 1.

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

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

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

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



# DAILY WEATHER REPORT.

for *Monday, 17<sup>th</sup> March,* 1890.  
 Issued by the Meteorological Office, 63, Victoria Street, London. *R. H. SCOTT, Secretary.*

Issued by the Meteorological Office, 63, Victoria Street, London. R. H. SCOTT, Secretary.																		
STATIONS.	YESTERDAY EVENING.					8 A.M. TO DAY.										PAST 24 HOURS.		
	BAROM.  Reading at 32° F. and Sea Level.	TEMP.  Dry.	WIND.		Weather.	BAROMETER.		SHADE TEMP.			WIND.		Sea. (0 to 9.)	SHADE TEMP.		Amount of Rainfall.		
			Dir.	Force. (0 to 12.)		Reading at 32° F. and Sea Level.	Difference from 8 a.m. yesterday.	Dry.	Wet.	Difference from 8 a.m. yesterday.	Dir.	Force. (0 to 12.)		Weather.	Max.		Min.	
SCANDINAVIA.																		
Haparanda ...	30.04	30	Z	0	0	30.00	-0.04	33	32	+10	S	2	0	*	2	14	-	
Hernösand ...	29.98	33	Z	0	0	30.01	-0.03	32	32	0	S	2	0	*	37	25	-	
Stockholm ...	30.03	33	SE	2	0	29.99	-0.04	34	33	-1	ESE	6	0	*	50	32	-	
Wisby ...	29.94	35	E	6	0	29.80	-0.14	36	36	0	ESE	8	0	*	48	32	-	
Bodö ...	29.72	40	E	4	0	29.68	-0.04	41	37	0	ESE	4	0	2	43	36	-	
SCANDINAVIA.																		
Christiansund ...	29.54	48	SE	2	0	29.47	-0.07	49	42	+7	SE	4	0	3	52	46	-	
Skudesnaes ...	29.49	44	ESE	2	0	29.39	-0.10	48	43	+5	ESE	4	0	3	48	43	-	
Christiania Fjord (Færdar)	29.73	42	NNE	3	0	29.65	-0.08	37	36	-1	NNE	5	0	2	?	37	-	
Skagen (The Scaw)	29.65	38	ESE	3	0	29.54	-0.11	40	39	+1	SE	3	0	3	43	37	-	
Fanö ...	29.48	39	E	4	0	29.30	-0.18	39	39	-2	E	4	0	*	46	37	-	
SCANDINAVIA.																		
Sumburgh Head	29.18	46	SSE	5	0	29.12	-0.06	43	43	-2	SSE	6	0	4	48	42	0.07	
Stornoway ...	28.93	44	S	4	0	29.16	+0.23	37	37	+2	SW	3	0	3	45	33	0.50	
Wick ...	29.06	45	S	5	0	29.14	-0.02	39	38	-1	NW	2	0	3	49	39	0.20	
Nairn ...	29.00	47	SE	2	0	29.18	+0.18	37	37	-13	NW	2	0	1	58	34	0.49	
Aberdeen ...	29.10	45	SE	6	0	29.16	-0.06	37	36	-8	NW	5	0	6	49	37	0.22	
SCANDINAVIA.																		
Leith ...	29.12	51	S	3	0	29.16	-0.04	41	39	-5	W	1	0	*	60	37	0.14	
Shields ...	29.09	46	SE	4	0	29.13	-0.06	40	39	-7	W	3	0	3	50	38	0.12	
Spurn Head ...	29.03	46	SE	4	0	29.22	-0.19	42	41	-1	NW	4	0	3	47	41	-	
York ...	29.11	55	S	2	0	29.23	-0.12	42	40	-7	W	2	0	*	58	39	0.10	
Loughborough	29.14	48	SSE	2	0	29.31	+0.17	41	39	-6	NW	3	0	*	59	38	0.12	
SCANDINAVIA.																		
Ardrossan ...	29.01	45	NW	2	0	29.21	+0.18	42	40	-5	NW	3	0	2	51	38	0.17	
Malin Head ...	29.06	40	NW	4	0	29.25	+0.19	41	36	+1	NW	4	0	2	41	28	0.12	
Mullaghmore ...	29.10	43	NW	4	0	29.29	+0.19	39	37	-1	SW	2	0	2	44	36	0.07	
Belmullet ...	29.13	42	N	3	0	29.30	+0.17	39	39	0	ESE	2	0	*	47	36	0.05	
Donaghadee ...	29.07	42	N	2	0	29.29	+0.22	37	36	-9	W	2	0	1	47	33	0.15	
SCANDINAVIA.																		
Liverpool (Bidston)	29.08	45	NW	2	0	29.30	+0.22	40	39	-7	NW	2	0	3	55	38	0.39	
Holyhead ...	29.07	41	NW	3	0	29.31	+0.24	41	40	-8	NW	2	0	2	51	39	0.15	
Parsonstown ...	29.13	46	Z	0	0	29.34	+0.21	32	31	-1	Z	0	0	*	49	28	-	
Valencia ...	29.21	44	NW	2	0	29.36	+0.15	40	38	-2	E	1	0	2	48	34	0.05	
Roche's Point...	29.18	43	NW	3	0	29.37	+0.19	36	34	-4	NW	2	0	3	51	34	-	
SCANDINAVIA.																		
Pembroke (St. Ann's Hd.)	29.14	44	W	4	0	29.35	+0.21	43	43	-3	NW	2	0	3	47	40	0.09	
Scilly ...	29.23	45	W	4	0	29.35	+0.12	46	44	+2	NW	2	0	4	47	44	-	
Prawle Point ...	29.19	41	W	2	0	29.40	+0.21	43	40	-4	SW	2	0	2	46	38	0.15	
Jersey (St. Aubin's)	29.10	45	NW	4	0	29.43	+0.33	42	40	-6	NW	2	0	2	49	36	0.08	
Hurst Castle ...	29.13	49	SW	5	0	29.40	+0.27	42	40	-7	W	3	0	3	51	36	0.11	
SCANDINAVIA.																		
Dungeness ...	29.19	48	S	4	0	29.37	+0.18	44	41	-3	W	3	0	2	51	38	-	
London ...	29.16	45	SSE	3	0	29.36	+0.20	41	39	-2	SW	1	0	*	59	36	0.01	
Oxford ...	29.13	48	SE	2	0	29.36	+0.23	40	38	-8	NW	3	0	*	55	38	0.10	
Cambridge ...	29.17	51	SSE	2	0	29.35	+0.18	43	40	-4	SW	1	0	*	62	38	-	
Yarmouth ...	29.23	45	SSE	3	0	29.28	-0.05	43	41	0	W	3	0	2	47	40	-	
SCANDINAVIA.																		
Cuxhaven ...	29.51	42	ESE	2	0	29.35	-0.16	40	39	-1	SE	2	0	*	50	40	-	
Berlin ...	29.52	52	SE	3	0	29.43	-0.09	47	44	+3	SE	3	0	*	57	?	-	
Wiesbaden ...	*	*	*	*	*	29.41	-0.11	45	43	0	NE	2	0	*	59	43	-	
Munich ...	29.43	48	SW	2	0	29.38	-0.05	40	39	+5	SW	3	0	*	61	?	-	
The Helder ...	29.31	52	E	1	0	29.28	-0.03	44	43	0	SW	2	0	2	54	41	-	
SCANDINAVIA.																		
Brussels (9 a.m.)	*	*	*	*	*	29.38	-0.09	45	42	-5	SW	2	0	*	64	45	-	
Cape Gris Nez	*	54	S	3	0	?	?	42	40	-6	W	5	0	*	61	41	0.12	
Paris ...	29.31	50	SW	2	0	29.47	+0.16	40	37	-10	SW	2	0	*	65	37	0.24	
Brest ...	29.30	46	NW	3	0	29.41	-0.11	44	43	-1	S	1	0	4	52	43	0.04	
Lorient ...	29.32	46	W	3	0	29.38	+0.22	42	41	-7	E	1	0	5	50	41	0.32	
SCANDINAVIA.																		
Rochefort ...	29.45	48	NW	5	0	29.52	+0.07	40	39	-10	SE	3	0	?	57	34	0.04	
Belfort ...	29.75	48	NW	1	0	29.43	-0.32	47	37	-1	NW	1	0	*	60	44	0.04	
Lyons ...	29.41	50	S	2	0	29.52	+0.11	42	40	-4	NW	2	0	*	55	42	0.47	
Nice ...	29.30	44	NE	6	0	29.47	+0.17	44	44	-6	E	4	0	4	57	44	1.22	
Perpignan ...	29.43	48	W	3	0	29.54	+0.11	40	39	-11	S	1	0	*	66	37	-	
Biarritz ...	29.51	50	NW	5	0	29.60	+0.09	42	39	-14	ESE	3	0	3	?	39	-	
SCANDINAVIA.																		
Corunna ...	*	*	*	*	*	29.70	-0.02	48	42	+6	W	5	0	?	54	46	0.51	
Lisbon ...	29.58	51	SW	6	0	*	*	*	*	*	*	*	*	*	*	*	*	

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

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



# WEATHER CHARTS

for 8 a.m. on

Monday, 17<sup>th</sup> March

1890.

## 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:

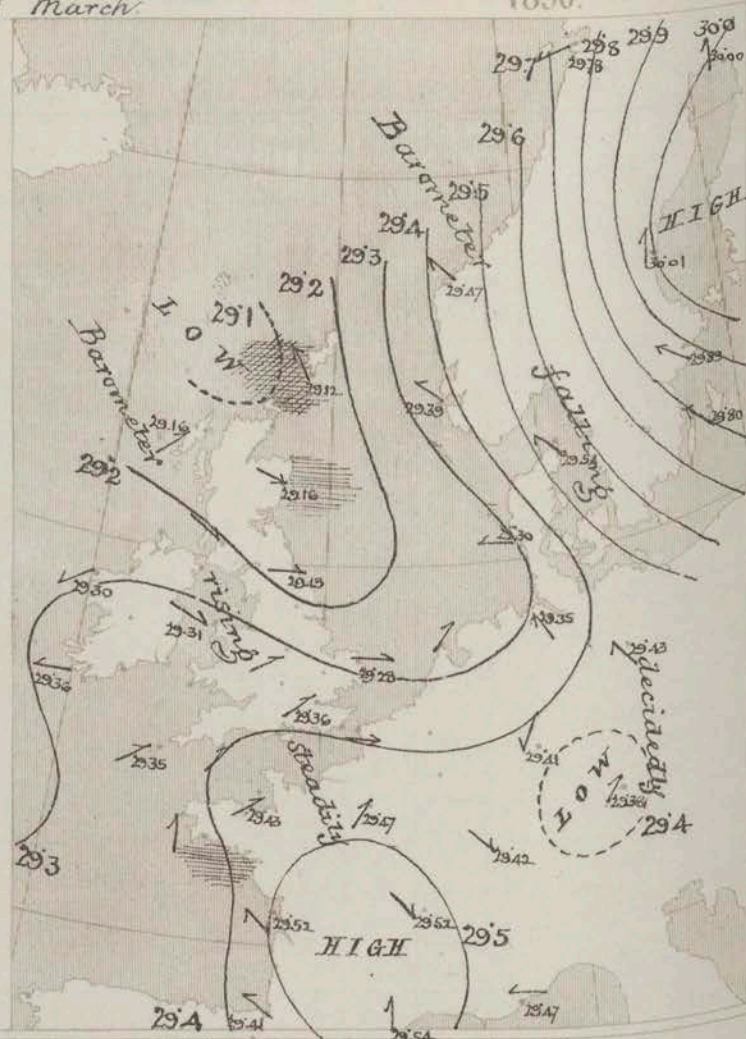
☐ = Rough. ☐ = High.

### MEAN HEIGHT OF THE BAROMETER

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

During the 15 Years: 1871—1885.

STATIONS.	MEAN READINGS.
Sumburgh Head .....	29.751
Stornoway .....	29.779
Wick .....	29.797
Nairn .....	29.815
Aberdeen .....	29.830
Leith .....	29.862
Shields .....	29.890
York .....	29.925
Loughborough .....	29.948
Ardrossan .....	29.876
Donaghadee .....	29.892
Holyhead .....	29.919
Liverpool .....	29.925
Parsonstown .....	29.940
Valencia .....	29.938
Roche's Point .....	29.941
Pembroke .....	29.944
Scilly .....	29.966
Jersey .....	29.971
Hurst Castle .....	29.966
Dover .....	29.955
LONDON .....	29.907
Oxford .....	29.905
Cambridge .....	29.957
Yarmouth .....	29.938



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

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

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

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

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

(For the month of March.)

STATIONS.	TEMPERATURE.				RAINFALL. (Inches.)
	Daily Max.	Daily Min.	at 8 a.m.	Wet.	
Sumburgh Head.....	42.0	34.0	38.5	37.1	2.92
Stornoway .....	44.0	34.4	39.2	38.0	3.87
Wick .....	44.7	33.9	39.1	37.2	1.97
Nairn .....	45.0	34.2	38.2	36.3	1.72
Aberdeen .....	45.4	34.7	38.9	36.8	2.24
Leith .....	48.2	34.6	39.7	37.9	1.36
Shields .....	45.9	35.4	39.6	38.0	1.60
York .....	48.0	33.7	38.6	37.1	1.63
Loughborough .....	49.8	34.3	39.5	37.7	1.47
Ardrossan .....	49.8	36.6	40.5	38.7	2.59
Donaghadee.....	47.3	37.1	41.0	39.7	1.99
Holyhead .....	47.6	39.2	42.6	41.0	2.21
Liverpool .....	47.3	37.1	40.8	38.7	1.69
Parsonstown .....	50.1	35.5	41.2	39.6	2.35
Valencia .....	51.0	40.6	45.4	43.4	4.24
Roche's Point .....	50.2	40.0	45.8	42.1	3.71
Pembroke .....	47.1	39.5	42.6	40.8	2.45
Scilly .....	49.9	43.0	46.5	44.7	2.38
Jersey .....	49.9	40.5	44.7	42.7	2.32
Hurst Castle .....	48.3	37.7	41.6	40.7	1.80
Dover .....	46.9	37.8	41.6	39.9	1.86
LONDON .....	50.6	35.8	40.6	38.7	1.43
Oxford .....	49.5	35.2	39.4	37.9	1.52
Cambridge .....	50.6	35.3	40.2	37.7	1.33
Yarmouth .....	45.7	35.8	40.8	39.1	1.77

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





# GENERAL SITUATION AT 8 A.M.

## PRESSURE

Highest, 30.0 in. and upwards, over the Gulf of Bothnia.  
 Lowest, 29.2 in. and less, in a depression lying over Scotland, the northwest of England, and the adjacent parts of the North Sea.  
 Gradient rather steep over Scandinavia, but slight elsewhere.  
 Barometer rising in our Islands and France, but falling in Scandinavia, Denmark and Germany.

## TEMPERATURE

Highest, 49° at Christiansund, 48° at Helsingfors and Lissabon, 47° at Berlin and Belfast, 46° at Dublin, 45° at Wiesbaden, and 44° at Augsburg, Milder and Nice.  
 Lowest, 32° at Norwiche and Paroskion, 33° at Haparanda, 34° at Stockholm, and 35° at Nishy and Rochester.  
 During yesterday the thermometer rose to 59° at Loughborough and in London, 60° at Bath, and 61° at Cambridge.

## WIND

Light or moderate from the West (SW to NW) over Great Britain and the north of Ireland.  
 Light from the SE<sup>W</sup> in the west of France, and from the E<sup>W</sup> in the west of Ireland.  
 Moderate to strong from the SE<sup>W</sup> over Scandinavia and Denmark and also in the Shetlands.

## WEATHER

Fine in Ireland, England, the Netherlands, North Germany, and the greater part of France.  
 Cloud elsewhere, with rain in the north and east of Scotland, as well as at Nishy and Nice.  
 Rain fell yesterday in nearly all parts of Western Europe, the largest amount being 1.2 in. at Nice and 0.5 in. at Stockholm.

## SEA

High at Lumburgh Head, and rough at Aberdeen, but slight or smooth elsewhere.

## PROBABLE CHANGES IN SYSTEM NOW PREVALENT

The shift of wind to the eastward in the west of Ireland seems to indicate the approach of a depression towards our southwest coasts. The disturbance is at present too far distant for its size or depth to be accurately determined, but a renewal of unsettled weather is probable in the western and southern parts of the Kingdom, with freshening SE<sup>W</sup> winds over Ireland and the southwest of England.

# FORECASTS

For the 24 hours ending at NOON on 18<sup>TH</sup> March 1890.

## DISTRICTS.

## FORECASTS.

- 6 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> or SE<sup>W</sup>; some rain at first then fair.  
 Same as N° 5.  
 SW<sup>W</sup> to S<sup>W</sup> or SE<sup>W</sup> winds, fine to dull and some rain.

## DISTRICTS.

## FORECASTS

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

W<sup>W</sup> to S<sup>W</sup> winds, light; fair generally.  
 Same as N° 5.  
 Wind backing to the S<sup>W</sup> and SE<sup>W</sup> and freshening; fair to dull and rainy.  
 E<sup>W</sup> and SE<sup>W</sup> winds, freshening; fair to dull and rainy.

## WARNINGS

NONE ISSUED.

N° 5.—The South Cone, point downwards (↓), means that gales, or strong winds, are probable at first from the Southward (from S.E. round by S. to N.W.). Should it appear likely that a gale beginning from between W. and N.W. is likely to veer towards N. or N.E., the North Cone is hoisted in preference to the South Cone.  
 The North Cone, point upwards (↑), means that gales, or strong winds, are probable at first from the Northward (from N.W. round by N. to S.E.). Should it appear likely that a gale beginning from between E. and S.E. is likely to veer towards S. or S.W., the South Cone is hoisted in preference to the North Cone.



# YESTERDAY'S 2 P.M. REPORTS.

	BAR:	THER:		WIND		WEA.	SEA		BAR:	THER:		WIND		WEA.	SEA
		D.	W.	D.	F.					D.	W.	D.	F.		
Skudesnaes ...									Holyhead ...	29.02	46	45	SW	3	3
Sumburgh Head									Valencia ...						
Stornoway ...	28.94	44	44	S	3	r	3		Scilly ...					0	3
Aberdeen ...									Jersey ...	29.12	49	48	SW	3	3
Shields ...									Dungeness ...	29.27	49	47	S	4	3
Ardrossan ...									London ...						*
Malin Head ...	28.98	40	39	N	4	0	2		Yarmouth ...						?
Mullaghmore ...									Rocheport ...	29.35	53	51	W	4	
Belmullet ...	29.07	47	42	W	2	6	*								

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

Weather in morning fine in the Netherlands and over the eastern, midland, and northwestern parts of England, and also in Portugal; cloudy or overcast, and unsettled, in most other places, squally and showery in Scotland and on several parts of our western coasts, foggy in many parts of Russia and Hungary. Rain later over the greater part of our Islands, and in France, - considerable in Scotland and heavy at Nice, but comparatively slight elsewhere - very slight in London.

Temperature falling at our western stations, rising decidedly in Germany. Varying between 50° and 60° at the Mediterranean stations and between 50° and 56° in the north of Spain; below 50° in our Islands, and below 40° at some of the Irish stations and Stornoway, as well as over Central, eastern and northern Europe, but below the freezing point in the extreme north of Russia and in Hungary only; lowest 18° at Archangel, 22° at Uleaborg, and 32° at Ieracow. Rising later to between 59° and 62° in the southeast of England to between 50° and 63° in the south of France, to 61° at Munich, and 65° at Paris; falling briskly over the British Isles later.

Wind currents very well defined. SE<sup>ly</sup> over Norway, Germany, the North Sea, nearly the whole of Great Britain, the English and Irish Channels, and the north of France, moderate to strong in force; NW<sup>ly</sup> in the Heligoland, and at most of the Irish stations and Scilly, moderate to fresh in force; S<sup>ly</sup> to SW<sup>ly</sup> over the Bay of Biscay and Spain. An E<sup>ly</sup> gale prevalent in the south of France. Very light over Russia. The NW<sup>ly</sup> wind in Ireland spreading E<sup>ly</sup> later but not reaching our eastern stations.

Barometer. Highest 30.0 ins. to about 30.4 ins. over Russia, 29.5 ins. to 29.7 ins. over Portugal and the W. of Spain. Lowest 28.9 ins. to 29.0 ins. in depressions off our northwest coasts, and 29.0 ins. to 29.3 ins. in a complex "V" shaped secondary stretching southwards over the Irish sea and southwest of England to the Bay of Biscay and northeast of Spain. Rising in the west, falling in the east during day, as the "V" moved slowly to the eastward.

## SUMMARY OF CHANGES IN THE WEATHER OVER THE BRITISH ISLANDS AND THEIR NEIGHBOURHOOD FROM THE 9<sup>TH</sup> TO THE 15<sup>TH</sup> MARCH 1890.

During the earlier part of this period pressure was highest (30.2 ins. to nearly 30.6 ins) over the southwestern and southern parts of our area, lowest in the north, and depressions varying in magnitude (one deep and very large) passed in a northeasterly direction from the Atlantic by or over our northern coasts towards Norway. The wind in our Islands was consequently W<sup>ly</sup> (NW to SW) in direction, fresh to strong in force, and occasionally blew with the force of a gale in Norway, and on some parts of our own northern coasts; in the south, however, it was moderate, and at many of the French stations light or moderate NW<sup>ly</sup> to NE<sup>ly</sup> winds prevailed.

The high-pressure system, however, gradually decreased in intensity, and moved southeastwards, the depressions (which continued to appear in the north) spread more over the United Kingdom after Thursday, and "V" shaped secondaries were observed, advancing eastwards directly over the British Islands; that of Saturday was large, and some small well marked but shallow cyclones were developed temporarily over our southwestern districts. Temperature has been high, especially in the north, and the weather as a rule, showery in the west and north, fine in the east and south. On Saturday, however, the rainfall was heavy (1.4 ins. to 1.7 ins) in some parts of Ireland.

## EXPLANATION OF COLUMNS GIVEN ON PAGE 1.

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

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

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

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



# DAILY WEATHER REPORT.

for Tuesday 18<sup>th</sup> March. 1890.  
Issued by the Meteorological Office, 63, Victoria Street, London. R. H. SCOTT, Secretary.

Issued by the Meteorological Office, 63, Victoria Street, London. R. H. SCOTT, Secretary.																		
STATIONS.	YESTERDAY EVENING.					8 A.M. TO DAY.										PAST 24 HOURS.		
	BAROM. Reading at 32° F. and Sea Level.	TEMP. Dry.	WIND.		Weather.	BAROMETER.		SHADE TEMP.			WIND.		Sea. (0 to 9.)	SHADE TEMP.				
			Dirac.	Force. (0 to 12.)		Reading at 32° F. and Sea Level.	Difference from 8 a.m. yesterday.	Dry.	Wet.	Difference from 8 a.m. yesterday.	Dirac.	Force. (0 to 12.)		Weather.	Max.	Min.	Amount of Rainfall.	
SCANDINAVIA.																		
Haparanda ...	30.00	32	SW	2	o	29.10	+10	32	32	-1	SE	4	o	*	36	30	—	
Hernösand ...	29.95	34	2	o	o	29.91	-10	34	33	+2	SE	2	o	*	36	30	0.00	
Stockholm ...	29.80	34	SE	4	P	29.79	-10	35	34	+1	SE	4	o	*	37	19	—	
Wisby ...	29.75	37	SE	4	o	29.75	-05	36	35	o	SE	4	o	*	39	32	—	
Bodö ...	29.67	43	E	2	C	29.66	-02	43	37	+2	E	4	o	3	46	39	—	
CHRISTIANIA.																		
Christiansund ...	29.34	49	SE	4	C	29.46	-01	45	41	-4	SE	2	bc	3	54	45	—	
Skudesnaes ...	29.34	44	SE	4	o	29.62	+23	41	40	-7	SE	6	o	4	48	39	—	
Christiania Fjord (Færd)	29.60	37	NNE	4	o	29.61	-04	36	36	-1	NE	2	P	1	41	36	0.00	
Skagen (The Seaw)	29.52	39	SE	2	o	29.56	+02	39	39	-1	2	o	o	1	41	37	0.00	
Fanö ...	29.40	40	WSE	2	P	29.56	+26	40	39	+1	NW	2	C	*	50	39	0.04	
SCOTLAND.																		
Sumburgh Head	29.14	37	NNW	2	P	29.41	+29	40	39	-3	2	o	C	4	44	36	1.14	
Stornoway ...	29.22	45	SW	2	C	29.30	+14	39	38	+2	SW	5	C	4	46	32	0.25	
Wick ...	29.20	39	NW	2	o	29.42	+20	40	39	+1	2	bc	2	bc	42	36	0.06	
Nairn ...	29.21	42	2	o	C	29.37	+19	39	36	+2	SE	1	bc	1	43	33	—	
Aberdeen ...	29.27	38	NW	1	Cg	29.40	+32	41	39	+4	SE	2	bc	4	41	32	0.36	
ENGLAND.																		
Leith ...	29.29	45	NW	1	bc	29.44	+15	37	35	-4	SE	2	C	*	47	33	0.04	
Shields ...	29.36	39	SE	1	o	29.49	+13	36	35	-4	2	C	C	2	47	32	0.01	
Spurn Head ...	29.43	44	WSE	3	C	29.49	+6	43	42	+1	SE	3	C	2	49	37	—	
York ...	29.40	46	W	1	bc	29.50	+10	37	35	-5	SE	1	C	*	51	32	—	
Loughborough	29.44	43	WSE	2	C	29.49	+10	33	32	-1	SE	1	Cm	*	52	30	—	
IRISH ISLANDS.																		
Ardrossan ...	29.30	46	SE	2	C	29.37	+7	40	39	-2	SE	5	P	3	48	39	0.04	
Malin Head ...	29.27	41	WSE	4	o	29.28	+1	35	33	-6	SE	4	C	2	47	32	—	
Mullaghmore ...	29.29	37	WSE	4	Pok	29.27	-02	37	35	-2	SE	5	bc	3	47	33	0.05	
Belmullet ...	29.27	41	SW	4	C	29.22	-05	36	35	-3	SE	3	o	*	48	34	0.25	
Donaghadee ...	29.34	42	SE	2	C	29.36	+07	37	36	o	SE	2	C	1	52	34	0.06	
BRITISH ISLANDS.																		
Liverpool (Bidston)	29.41	42	W	1	C	29.43	+13	38	36	-2	SE	3	bc	3	46	33	—	
Holyhead ...	29.39	44	SE	2	C	29.37	+06	41	40	o	2	C	C	3	50	37	0.17	
Parsonstown ...	29.36	38	2	o	P	29.27	-09	37	35	+5	SE	2	bc	*	49	31	0.04	
Valencia ...	29.38	43	W	3	bc	29.15	-23	36	35	-4	W	3	Pm	3	46	35	0.75	
Roche's Point...	29.38	44	WSE	4	P	29.21	-16	44	40	+4	5	C	C	4	49	36	0.15	
IRELAND.																		
Pembroke (St. Ann's Hd.)	29.43	44	SE	3	bc	29.32	-03	42	42	-1	SE	5	bc	4	47	39	0.00	
Scilly ...	29.45	45	SE	3	C	29.29	-06	44	41	-2	2	C	C	4	51	42	0.03	
Prawle Point ...	29.40	45	SE	2	C	29.38	-02	39	39	-4	2	C	P	2	49	39	0.13	
Jersey (St. Aubin's)	29.40	48	2	1	bc	29.40	-03	47	43	+5	SE	3	Cm	3	53	41	—	
Hurst Castle ...	29.50	46	SE	4	C	29.44	+04	44	43	+2	SE	4	C	2	49	40	—	
ENGLAND.																		
Dungeness ...	29.40	45	WSE	3	C	29.40	+11	44	41	o	SE	3	bc	2	49	37	—	
London ...	29.46	47	SW	2	C	29.40	+12	40	38	-1	E	1	bc	*	55	33	—	
Oxford ...	29.49	42	SW	2	C	29.40	+12	37	36	-3	SE	1	bc	*	53	31	—	
Cambridge ...	29.46	49	NW	1	C	29.51	+16	37	36	-6	2	C	C	*	53	30	—	
Yarmouth ...	29.43	49	WSE	2	C	29.51	+23	41	40	-2	SE	2	Cm	3	51	37	—	
GERMANY & HOLLAND.																		
Cuxhaven ...	29.42	43	NNW	3	bc	29.57	+22	41	40	+1	N	2	bc	*	55	39	0.10	
Berlin ...	29.41	53	2	o	C	29.54	+11	45	44	-2	NW	3	C	*	61	43	—	
Wiesbaden ...	*	*	*	*	*	29.49	+08	46	43	+1	NNE	1	C	*	48	43	0.55	
Munich ...	29.40	45	W	2	C	29.47	+09	40	39	o	E	3	C	*	57	37	—	
The Helder ...	29.51	42	SW	1	C	29.50	+30	39	38	-5	E	1	C	1	46	34	—	
FRANCE AND BELGIUM.																		
Brussels (9 a.m.)	*	*	*	*	*	29.51	+13	39	38	-6	E	3	C	*	52	35	—	
Cape Gris Nez	*	42	SW	3	C	29.45	-06	38	35	-4	SE	2	bc	1	48	36	—	
Paris ...	29.52	48	ENE	2	C	29.45	-02	36	35	-4	NNE	2	C	*	56	34	—	
Brest ...	29.50	47	N	1	o	29.39	-02	42	39	-2	E	2	C	3	54	37	—	
Lorient ...	29.83	46	2	o	o	29.39	+01	42	41	o	NNW	3	C	5	50	39	—	
SPAIN.																		
Rochefort ...	29.52	47	2	4	o	29.43	-09	39	39	-1	E	1	C	2	55	32	0.00	
Belfort ...	29.53	42	NW	1	o	29.36	-07	43	34	-4	SE	1	o	*	49	36	0.24	
Lyons ...	29.53	44	E	2	C	29.39	-12	37	36	-5	NNW	2	C	*	51	36	0.04	
Nice ...	29.50	46	SE	5	o	29.44	-03	41	39	-3	ENE	4	o	4	52	37	1.65	
Perpignan ...	29.38	49	SE	2	P	29.40	-14	47	41	+7	WSE	3	o	*	59	42	0.08	
Biarritz ...	29.42	50	SE	3	o	29.43	+03	45	44	+3	W	8	P	7	61	37	0.71	
PORTUGAL.																		
Corunna ...	*	*	*	*	*													
Lisbon ...	*	*	*	*	*													

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

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



# WEATHER CHARTS

for 8 a.m. on Tuesday, 18<sup>th</sup> March.

1890.

## 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:

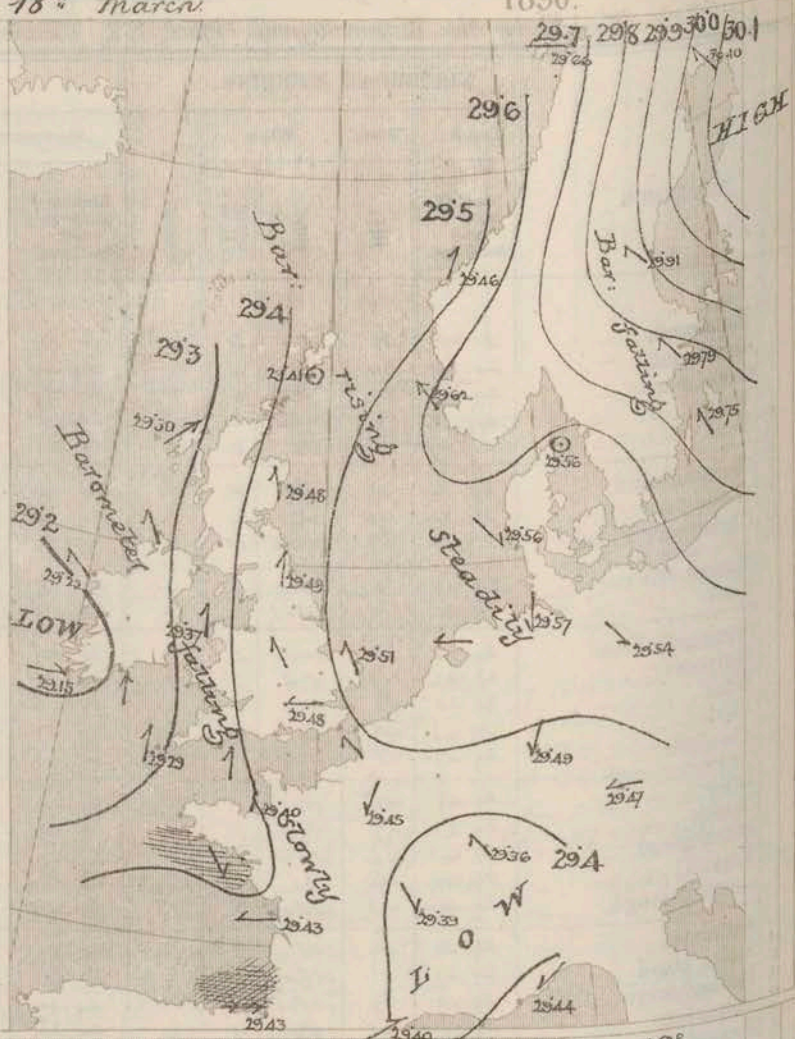
☰ = Rough. ☒ = High.

## MEAN HEIGHT OF THE BAROMETER

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

During the 15 Years: 1871—1885.

STATIONS.	MEAN READINGS.
	ins.
Sumburgh Head .....	29.751
Stornoway .....	29.779
Wick .....	29.797
Nairn .....	29.815
Aberdeen .....	29.830
Leith .....	29.802
Shields .....	29.896
York .....	29.925
Loughborough .....	29.948
Ardrossan .....	29.876
Donaghadee .....	29.892
Holyhead .....	29.919
Liverpool .....	29.925
Parsonstown .....	29.940
Valencia .....	29.938
Roche's Point .....	29.941
Pembroke .....	29.944
Silly .....	29.966
Jersey .....	29.971
Hurst Castle .....	29.966
Dover .....	29.955
LONDON .....	29.967
Oxford .....	29.966
Cambridge .....	29.967
Yarmouth .....	29.938



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

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

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

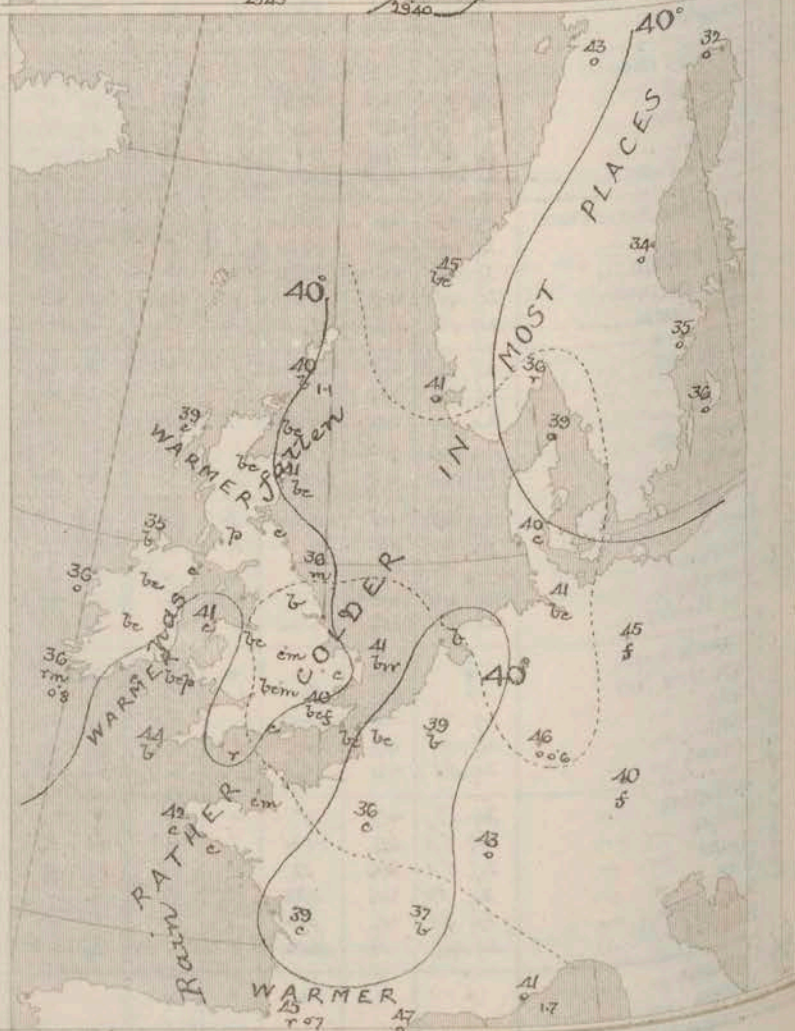
**RAINFALL**—A dotted line separates the districts in which rain has fallen from those where there has been none. Falls of 0.5 in. or more, are quoted in figures.

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

(For the month of March.)

STATIONS.	TEMPERATURE.				RAINFALL. (Inches.)
	Daily Max.	Daily Min.	at 8 a.m. Dry.	Wet.	
Sumburgh Head.....	42.6	34.0	38.5	37.1	2.92
Stornoway .....	44.9	34.4	39.2	38.0	3.87
Wick .....	44.7	33.9	39.1	37.2	1.97
Nairn .....	45.6	34.2	38.2	36.3	1.72
Aberdeen .....	45.4	34.7	38.9	36.8	2.34
Leith .....	48.2	34.6	39.7	37.9	1.30
Shields .....	45.9	35.4	39.6	38.0	1.60
York .....	48.9	33.7	38.6	37.1	1.63
Loughborough .....	49.3	34.3	39.5	37.7	1.47
Ardrossan .....	46.8	36.6	40.5	38.7	2.59
Donaghadee .....	47.3	37.1	41.0	39.7	1.99
Holyhead .....	47.6	39.2	42.5	41.0	2.21
Liverpool .....	47.3	37.1	40.8	38.7	1.69
Parsonstown .....	50.1	35.5	41.2	39.6	3.35
Valencia .....	51.6	40.6	45.4	43.4	4.24
Roche's Point .....	50.2	40.0	43.8	42.1	3.71
Pembroke .....	47.1	39.5	42.6	40.8	2.45
Silly .....	49.9	43.0	46.5	44.7	2.38
Jersey .....	49.9	40.5	44.7	42.7	2.32
Hurst Castle .....	48.3	37.7	41.0	40.7	1.80
Dover .....	46.9	37.8	41.0	39.9	1.86
LONDON .....	50.6	35.8	40.0	38.7	1.43
Oxford .....	49.5	35.2	39.4	37.9	1.62
Cambridge .....	50.6	33.3	39.2	37.7	1.33
Yarmouth .....	45.7	35.8	40.5	39.1	1.77

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





# GENERAL SITUATION AT 8 A.M.

## PRESSURE

Highest, 30.0 in. to 30.1 in. over the Gulf of Bothnia.  
 Lowest, 29.2 in. and less, in a shallow depression lying off the southwest of Ireland; 29.4 in. and less, in another system lying over the southeast of France and also in a small disturbance lying over Sicily.  
 Gradients slight generally, but moderate over the north of Scandinavia.  
 Barometer rising in the north and east of our Islands, and also on the eastern shores of the North Sea, but falling elsewhere.

## TEMPERATURE

Highest, 47° at Liffey and Jersey, 46° at Mirbadon, 45° at Christianund, Berlin and Bannitz, and 44° at Rocher Point, Seilly, Gungluse, and Head Castle.  
 Lowest, 32° at Haparanda, 33° at Loughborough, 34° at Helsingfors, 35° at Stockholm and Malin Head, and 36° at Misty, Lander, Belmont, Valencia, and Paris.  
 Slight frost occurred last night in many parts of the kingdom.

## WIND

Light to fresh from the S.E. over the greater part of our Islands and Scandinavia, but W. at Valencia.  
 Variable over France and Northern Germany; light from the N.W. in North Germany.

## WEATHER

Fair generally, but dull in Scandinavia and showery on some parts of our western and southern coasts.  
 A solar halo was visible in London, and also at Liverpool and Oxford.  
 Rain has fallen in France and the west and north of our Islands; the largest amount being 1.7 in. at Lize, and 1.1 in. at Dumburgh Head.

## SEA

Rough in the Bay of Biscay, but moderate to smooth elsewhere.

## PROBABLE CHANGES IN SYSTEM NOW PREVALENT

The depression off the southwest of Ireland seems likely to extend or to move in a southeasterly direction, and rain is probable at most of our southern stations. In the northern parts of the kingdom the weather will probably remain fair for the present.

## FORECASTS

For the 24 hours ending at NOON on 19<sup>th</sup> March 1890.

### DISTRICTS.

### FORECASTS.

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

SE<sup>ly</sup> winds, light or moderate;  
 fair generally.

Same as N°5

SE<sup>ly</sup> or E<sup>ly</sup> winds, moderate; fair to unsettled and some rain.

### DISTRICTS.

### FORECASTS

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

SE<sup>ly</sup> winds, moderate or fresh;  
 changeable, some showers.

S<sup>ly</sup> to E<sup>ly</sup> breezes, fresh; changeable, some rain.

Same as N°6 and 7.

Same as N°8.

### WARNINGS

NONE ISSUED.

N°5.—The South Cone, point downwards (↓), means that gales, or strong winds, are probable at first from the Southward (from S.E. round by S. to N.W.). Should it appear likely that a gale beginning from between W. and N.W. is likely to veer towards N. or N.E., the North Cone is hoisted in preference to the South Cone.  
 The North Cone, point upwards (↑), means that gales, or strong winds, are probable, at first from the Northward (from N.W. round by N. to S.E.). Should it appear likely that a gale beginning from between E. and S.E. is likely to veer towards S. or S.W., the South Cone is hoisted in preference to the North Cone.



# YESTERDAY'S 2 P.M. REPORTS.

	THER: WIND								THER: WIND						
	BAR:	D.	W.	D.	F.	WEA.	SEA		BAR:	D.	W.	D.	F.	WEA.	SEA
Skudesnaes ...	29.32	40	43	ESE	4	0	3	Holyhead ...	29.36	40	44	WSE	2	0	2
Sumburgh Head ...	29.14	42	42	SSE	3	0	7	Valencia ...	29.39	41	40	SW	2	0	4
Stornoway ...	29.19	46	43	SW	3	0	3	Scilly ...	29.39	51	40	SPW	2	0	3
Aberdeen ...	29.15	38	37	NW	5	0	5	Jersey ...	29.47	52	46	SPW	3	0	3
Shields ...	29.21	46	42	WNW	3	0	3	Dungeness ...	29.44	48	45	WSE	5	0	3
Ardrossan ...	29.27	40	44	WNW	2	0	2	London ...	29.42	54	45	WSE	3	0	3
Malin Head ...	29.26	46	42	W	4	0	2	Yarmouth ...	29.36	50	43	WNW	3	0	3
Mullaghmore ...	29.31	42	40	W	4	0	3	Rochefort ...	29.52	54	51	SSE	4	0	3
Belmullet ...	29.30	40	40	SW	3	0	*								

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

Weather fine and bright over Ireland, England, the west and north of France, and some parts of Norway and North Germany, cloudy or overcast elsewhere, unsettled in many places, with rain in Scotland, at several stations over Southern Europe and at some of the Baltic ports. Snow prevalent at Archangel, fog at St Petersburg and Koenigsberg. Rainfall heavy in the Shetlands, at Valencia, and in the southwest and south of France later, with thunder and lightning at Biarritz; slight falls generally in the northern and western parts of the British Isles and France. Remaining fine over the greater part of England.

Temperature changing irregularly, but not greatly; morning readings exceeding 50° on the eastern, southern and western shores of the Mediterranean only; below 40° in the north and northwest of the British Isles, Eastern Russia, Poland, Russia and Sweden, but below the freezing point at Kio and Archangel only. Rising subsequently to between 55° and 61° in many parts of France, and to between 50° and 55° over England, but falling fast again as night came on.

Wind light from E. over Southern Russia; still light to fresh from the SE<sup>wd</sup> over Austria, Germany, the Baltic, and eastern shores of the North Sea; variable (mainly from the W<sup>wd</sup>) over the United Kingdom and north of France. Very variable over Central France and Northern Germany; W<sup>3</sup> to S<sup>3</sup> over the Mediterranean. Becoming SW<sup>3</sup> in Ireland later, and S<sup>3</sup> in the west of France, and falling very light from W<sup>3</sup> over England.

Barometer highest 30.0 in. to about 30.4 in. over Russia, and 29.5 in. to 29.8 in. over the Mediterranean and Algeria; lowest about 29.1 in. off the north of Scotland, and below 29.3 in. in some shallow local depressions, of various form, over the North Sea and off our southwest coasts. Rising in our Islands later, most over England, falling in Norway.

### EXPLANATION OF COLUMNS GIVEN ON PAGE 1.

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

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

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

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# DAILY WEATHER REPORT.

for *Wednesday, 19<sup>th</sup> March,* 1890.  
*Issued by the Meteorological Office, 63, Victoria Street, London. R. H. SCOTT, Secretary.*

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STATIONS.	YESTERDAY EVENING.					8 A.M. TO DAY.										PAST 24 HOURS.	
	BAROM.  Reading at 32° F. and Sea Level.	TEMP.  Dry.	WIND.		Weather.	BAROMETER.		SHADE TEMP.			WIND.		Weather.	Sea. (0 to 9.)	SHADE TEMP.		Amount of Rainfall.
			Dirce.	Force. (0 to 12.)		Reading at 32° F. and Sea Level.	Difference from 8 a.m. yesterday.	Dry.	Wet.	Difference from 8 a.m. yesterday.	Dirce.	Force. (0 to 12.)			Max.	Min.	
SCANDINAVIA.																	
Haparanda ...	29.86	34	SE	4	0	30.08	-0.02	33	32	+1	SSE	2	0	*	36	28	-
Hernösand ...	29.96	34	ESE	4	0	30.02	+1.1	34	34	0	SE	0	0	*	36	32	-
Stockholm ...	29.86	34	ESE	2	0	29.91	+1.2	34	33	-1	E	2	0	*	37	32	-
Wisby ...	29.80	37	SSE	6	0	29.76	+1.1	35	34	-1	SE	4	0	*	39	34	-
Bodö ...	29.78	39	E	4	0	29.91	+2.5	35	34	-2	E	2	1	1	43	?	0.08
CHRISTIANIA.																	
Christiansund	29.81	42	SW	3	6	29.86	+4.0	39	36	-6	ESE	2	6	2	48	37	0.04
Skudesnaes ...	29.73	40	NW	4	6	29.71	+0.9	42	39	+1	NE	2	0	2	?	37	-
Christiania Fjord (Færder)	29.74	35	NNE	5	7	29.82	+2.1	36	35	0	N	5	0	2	?	?	0.20
Skagen (The Scaw)	29.65	39	NE	2	6	29.69	+1.3	37	37	-2	NE	3	0	4	39	37	-
Faro ...	29.55	41	E	4	0	29.47	-0.9	39	39	-1	E	4	0	*	50	39	-
IRELAND.																	
Sumburgh Head	29.63	43	SSE	2	6	29.77	+3.6	39	39	-1	SE	0	6	3	46	35	-
Stornoway ...	29.49	42	SE	3	6	29.72	+4.2	36	36	-3	E	2	0	3	45	32	0.05
Wick ...	29.58	43	S	4	6	29.78	+3.6	40	39	0	W	1	6	1	45	35	-
Nairn ...	29.53	45	SE	0	6	29.75	+3.8	32	30	-7	SE	0	6	1	50	30	-
Aberdeen ...	29.62	41	SE	3	6	29.74	+2.6	41	39	0	NW	2	6	3	46	37	-
ENGLAND.																	
Leith ...	29.51	46	E	2	6	29.72	+2.8	40	39	+3	NE	1	6	*	50	35	-
Shields ...	29.53	43	SE	3	6	29.63	+1.4	41	40	+5	N	3	6	4	47	35	-
Spurn Head ...	29.48	43	ESE	4	0	29.50	+0.1	41	40	-2	NNE	5	0	4	47	39	0.01
York ...	29.49	48	ESE	1	6	29.58	+0.8	41	39	+4	N	1	0	*	55	35	-
Loughborough	29.45	37	E	4	0	29.53	+0.4	40	39	+7	NW	4	6	*	56	33	0.02
SCOTLAND.																	
Ardrossan ...	29.49	45	NE	1	0	29.71	+3.4	39	37	-1	SE	0	6	0	45	36	0.05
Malin Head ...	29.42	43	ESE	2	6	29.68	+4.0	39	37	+4	SSE	3	6	1	45	35	-
Mullaghmore ...	29.38	45	E	5	6	29.71	+4.4	41	40	+4	ESE	4	0	2	46	37	-
Belmullet ...	29.37	44	ESE	2	6	29.71	+4.9	39	39	+3	ESE	2	6	*	45	34	0.03
Donaghadee ...	29.45	44	SE	2	6	29.70	+3.6	39	38	+2	SE	2	6	1	46	36	0.07
WALES.																	
Liverpool (Bidston)	29.41	48	E	3	6	29.62	+1.9	41	38	+3	NNE	1	6	3	49	38	-
Holyhead ...	29.39	45	WSW	1	6	29.64	+2.7	42	40	+1	ESE	2	6	2	49	40	-
Parsonstown ...	29.35	44	SE	1	6	29.70	+4.3	36	35	-1	SE	0	6	*	49	34	-
Valencia ...	29.32	38	N	4	0	29.77	+5.7	37	36	+1	NE	1	6	1	40	31	0.70
Roche's Point...	29.30	45	SE	5	6	29.67	+4.6	41	39	-3	NW	3	6	4	47	38	0.10
IRELAND.																	
Pembroke (St. Ann's Hd.)	29.32	45	ESE	3	6	29.60	+2.8	44	43	+2	NE	3	6	2	45	37	-
Scilly ...	29.20	46	E	4	6	29.56	+2.7	46	43	+2	NNE	4	6	5	49	43	-
Prawle Point ...	29.28	44	E	5	6	29.31	+1.3	40	39	+1	N	4	6	2	47	35	0.06
Jersey (St. Aubin's)	29.23	49	ESE	4	6	29.43	+0.3	45	44	-2	NW	3	6	3	55	42	-
Hurst Castle ...	29.31	46	ESE	4	6	29.46	+0.2	41	40	-3	NNE	3	0	2	52	40	-
ENGLAND.																	
Dungeness ...	29.29	43	ESE	4	7	29.35	+1.3	43	43	-1	NE	3	6	2	48	42	0.03
London ...	29.36	45	NE	5	6	29.42	+0.6	42	41	+2	NE	2	6	*	53	40	0.10
Oxford ...	29.39	43	ESE	2	6	29.49	+0.1	40	39	+3	NNE	3	6	*	52	36	0.10
Cambridge ...	29.42	46	E	1	0	29.49	+0.4	41	41	+4	NE	1	6	*	57	34	0.35
Yarmouth ...	29.42	43	ESE	5	6	29.42	-0.9	41	40	0	NNE	4	6	5	45	40	0.18
SCOTLAND.																	
Cuxhaven ...	29.51	42	E	8	6	29.38	+1.9	41	40	0	ESE	3	6	*	53	40	-
Berlin ...	29.45	51	SE	0	6	29.38	+1.6	49	45	+4	SE	4	6	*	52	?	-
Wiesbaden ...	*	*	*	*	*	29.16	-3.9	49	47	+3	NE	2	0	*	54	45	-
Munich ...	29.21	46	E	2	6	29.25	-2.2	44	41	+4	SW	5	6	*	59	39	-
The Helder ...	29.41	42	NE	3	7	29.34	-2.4	40	40	+1	NE	2	6	3	43	39	0.12
FRANCE.																	
Brussels (9 a.m.)	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
Cape Gris Nez	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
Paris ...	29.25	48	NE	1	6	29.33	+1.2	39	38	+3	SW	2	6	2	54	?	0.04
Brest ...	29.26	49	SE	0	6	29.51	+1.2	44	42	+2	N	2	0	2	52	41	-
Lorient ...	29.20	44	SE	0	6	29.43	+0.4	42	41	0	N	4	6	4	50	37	-
SPAIN.																	
Rochefort ...	29.30	42	NW	4	6	29.48	+0.5	47	46	+8	NW	3	6	?	55	36	0.12
Belfort ...	29.24	44	SE	1	0	29.32	+0.4	43	36	0	NW	1	0	*	47	40	-
Lyons ...	29.28	42	SW	4	6	29.36	+0.3	36	36	-1	NW	1	6	*	55	35	-
Nice ...	29.39	42	ESE	3	7	29.32	+1.2	39	37	-2	E	5	6	2	50	36	0.39
Perpignan ...	29.34	49	S	2	0	29.31	+0.9	42	41	-5	NW	2	6	*	57	37	0.12
Biarritz ...	29.23	51	SE	0	0	29.41	+0.2	45	42	0	NW	3	6	5	55	39	0.39
PORTUGAL.																	
Coruna ...	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
Lisbon ...	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*

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

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



# WEATHER CHARTS

for 8 a.m. on Wednesday, 19<sup>th</sup> March 1890.

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:

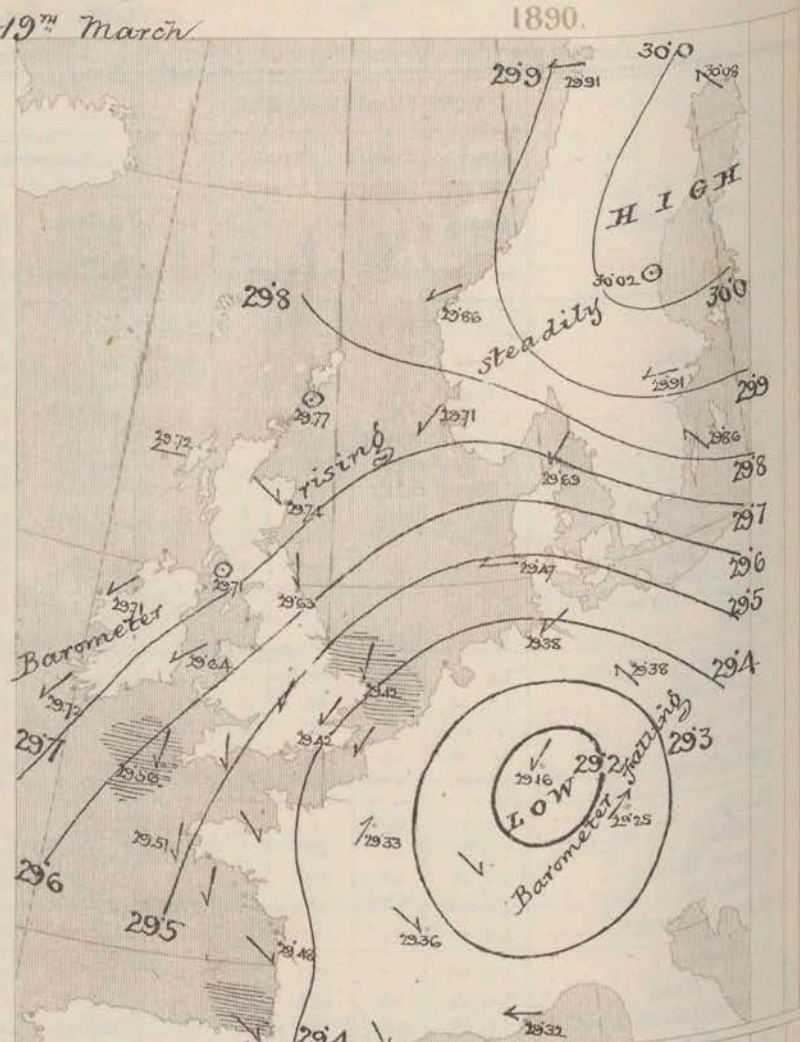
☼ = Rough. ☼ = High.

## MEAN HEIGHT OF THE BAROMETER

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

During the 15 Years: 1871—1885.

STATIONS.	MEAN READINGS.
	INS.
Sumburgh Head .....	29.751
Stornoway .....	29.779
Wick .....	29.797
Nairn .....	29.815
Aberdeen .....	29.830
Leith .....	29.862
Shields .....	29.896
York .....	29.925
Loughborough .....	29.948
Ardrossan .....	29.876
Donaghadee .....	29.892
Holyhead .....	29.919
Liverpool .....	29.925
Parsonstown .....	29.940
Valencia .....	29.938
Roche's Point .....	29.941
Pembroke .....	29.944
Sally .....	29.966
Jersey .....	29.971
Hurst Castle .....	29.966
Dover .....	29.955
LONDON .....	29.967
Oxford .....	29.966
Cambridge .....	29.957
Yarmouth .....	29.938



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

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

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

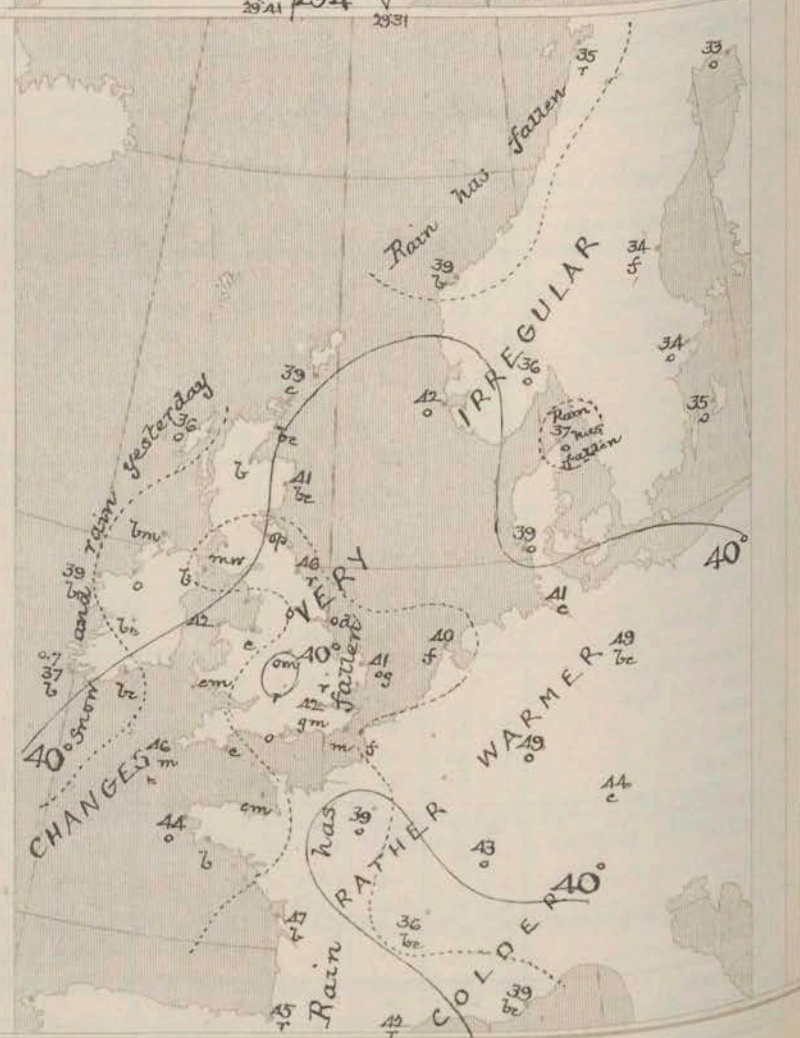
**RAINFALL**—A dotted line separates the districts in which rain has fallen from those where there has been none. Falls of 0.5 in. or more, are quoted in figures.

## MEANS OF TEMPERATURE IN SHADE, AND RAINFALL.

(For the month of March.)

STATIONS.	TEMPERATURE.				RAINFALL (Inches)
	Daily Max.	Daily Min.	at 8 a.m. Dev.	Wet.	
Sumburgh Head .....	42.6	34.0	38.5	37.1	2.92
Stornoway .....	44.9	34.4	39.2	38.0	3.87
Wick .....	44.7	33.9	39.1	37.2	1.97
Nairn .....	45.6	31.2	38.2	36.3	1.72
Aberdeen .....	45.4	31.7	38.9	36.8	2.24
Leith .....	48.2	34.6	39.7	37.9	1.36
Shields .....	45.9	35.1	39.0	38.0	1.60
York .....	48.9	33.7	38.6	37.1	1.63
Loughborough .....	40.3	34.3	39.5	37.7	1.47
Ardrossan .....	46.8	36.6	40.5	38.7	2.59
Donaghadee .....	47.3	37.1	41.0	39.7	1.99
Holyhead .....	47.6	39.2	42.5	41.0	2.21
Liverpool .....	47.3	37.1	40.8	38.7	1.69
Parsonstown .....	50.1	35.5	41.2	39.6	2.35
Valencia .....	51.6	40.6	45.4	43.4	4.24
Roche's Point .....	50.2	40.0	43.8	42.1	3.71
Pembroke .....	47.1	39.5	42.6	40.8	2.45
Sally .....	49.0	43.0	46.5	44.7	2.38
Jersey .....	49.9	40.5	44.7	42.7	2.32
Hurst Castle .....	48.3	37.7	41.6	40.7	1.80
Dover .....	46.9	37.8	41.0	39.9	1.56
LONDON .....	50.6	35.5	40.6	38.7	1.43
Oxford .....	50.5	35.2	39.4	37.9	1.52
Cambridge .....	50.6	33.3	39.2	37.7	1.33
Yarmouth .....	45.7	35.8	40.8	39.1	1.77

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





# GENERAL SITUATION AT 8 A.M.

## PRESSURE

Highest, 30.0 ins. and upwards, in the north of Sweden.  
 Lowest, 29.2 ins. and less, in a small depression lying over Western Germany, 29.3 ins. and less, in another disturbance lying over the Gulf of Genoa.  
 Gradients moderate over Denmark and the Baltic, slight elsewhere.  
 Barometer rising at all but the German stations — steadily in the west and north of our islands.

## TEMPERATURE

Highest, 49° at Berlin and Wiesbaden, 47° at Rochefort, 46° at Shields and Sully, and 45° at Jersey and Biarritz.  
 Lowest, 32° at Aïn, 33° at Haparanda, 34° at Helsingfors and Stockholm, 35° at Mielby, and 36° at Århus, Stavanger and Rønne.

## WIND

Moderate from the E<sup>nd</sup> over the Baltic, Denmark, and North Germany, from the NE<sup>nd</sup> or N<sup>nd</sup> over England, and from the NW<sup>nd</sup> over the Bay of Biscay.  
 Light from the W<sup>nd</sup> in the east of France; fresh from SW at Munich.  
 Calm or light and variable in the north and west of Scotland.

## WEATHER

Fine in the west and extreme north of our islands and also in the west of France.  
 B dull elsewhere, with rain over the central and eastern parts of England, as well as at Poole, Biarritz, and Bournemouth.  
 Rain has fallen at many of our western and southern stations and heavy snow was reported yesterday at Valenciennes.

## SEA

Rather rough at Scilly, Yarmouth, and Biarritz, but moderate to smooth elsewhere.

## PROBABLE CHANGES IN SYSTEM NOW PREVALENT

No great change in the weather is indicated at present. The future movements of the depression over Germany are uncertain, but its presence in our neighbourhood will probably occasion a continuance of unsettled weather in the east and southeast of England.

# FORECASTS

For the 24 hours ending at NOON on 20<sup>th</sup> March 1890.

## DISTRICTS.

## FORECASTS.

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

Variable or N<sup>th</sup> breezes, fair to showery.  
 N<sup>th</sup> winds, fresh; gusty, rain at times.  
 N<sup>th</sup> winds, moderate; some rain at first, but improving later.

## DISTRICTS.

## FORECASTS

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

N<sup>th</sup> and NE<sup>th</sup> winds, light; fair generally.  
 N<sup>th</sup> winds, moderate; fair generally, but local showers.  
 E<sup>th</sup> and NE<sup>th</sup> winds, moderate; fair generally.

## WARNINGS

NONE ISSUED.

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



# YESTERDAY'S 2 P.M. REPORTS.

	BAR:	THER:		WIND		WEA.	SEA		BAR:	THER:		WIND		WEA.	SEA
		D.	W.	D.	F.					D.	W.	D.	F.		
Skudesnaes ...	29.67	47	42	WSW	2	c	4	Holyhead ...	29.36	49	44	ESE	3	c	2
Sumburgh Head ...	29.55	45	42	SSE	2	c	4	Valencia ...	29.24	37	36	NW	3	s	5
Stornoway ...	29.42	45	43	SW	3	bc	3	Scilly ...	29.19	48	45	SE	5	c	3
Aberdeen ...	29.54	45	43	SE	4	c	4	Jersey ...	29.28	53	47	ESE	3	bc	3
Shields ...	29.49	45	42	ESE	3	c	3	Dungeness ...	29.35	46	43	E	L	c	*
Ardrossan ...	29.43	45	42	SE	3	o	2	London ...	29.39	50	45	ESE	3	bc	3
Mulin Head ...	29.35	43	39	SE	4	o	2	Yarmouth ...	29.46	45	42	E	4	c	?
Mullaghmore ...	29.30	45	39	ESE	5	c	3	Rochefort ...	29.36	55	50	W	1	c	
Belmullet ...	29.28	43	41	SE	2	o	*								

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

Weather fine in morning over the greater part of our Islands, at some isolated stations in France, and in the south of Russia; cloudy or overcast elsewhere; unsettled over Western and Southern Europe generally, with rain in many places and a solar halo in London. Showers later at several of our northernmost and western stations, and slight rain settling in over the south and southeast of England. Further falls of rain in the south of France also, thunder and lightning at Rome.

Temperature in morning exceeding 60° at Malta, and exceeding 50° on most of the eastern, southern, and western shores of the Mediterranean; below 40° in many parts of the British Isles, Spain and France, and also over Southern and Eastern Europe; and very uniformly about 32° over Ireland and the northern and central parts of Russia. Rising later to between 50° and 57° over England and France, but remaining below 50° at most of the northern stations.

Wind mainly S and SE and moderate over the British Islands, Northern and Eastern Europe, W over Spain, extremely variable elsewhere, and light. Backing to E over Ireland and England later, and freshening somewhat at the English stations.

Barometer highest 30.3 ins: and upwards, in an anticyclone lying over Russia; 30.0 ins: and upwards, in another system lying to the southward of Spain. Lowest, 29.2 ins: and less, in a shallow depression lying off the southwest of Ireland; 29.4 ins: and less, in a complete disturbance lying over the south and east of France. Depression off southwest of Ireland subsequently travelling southwards to the mouth of the Channel, and barometer rising at all our western stations.

### EXPLANATION OF COLUMNS GIVEN ON PAGE 1.

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

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

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

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



# DAILY WEATHER REPORT.

for *Thursday, 20<sup>th</sup> March,* 1890.  
 Issued by the Meteorological Office, 63, Victoria Street, London. R. H. SCOTT, Secretary.

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STATIONS.	YESTERDAY EVENING.					8 A.M. TO DAY.										PAST 24 HOURS.		
	BAROM.  Reading at 32° F. and Sea Level.	TEMP.  Dry.	WIND.		Weather.	BAROMETER.		SHADE TEMP.			WIND.		Sea. (0 to 9.)	SHADE TEMP.		Amount of Rainfall.		
			Dirac.	Force. (0 to 12.)		Reading at 32° F. and Sea Level.	Difference from 8 a.m. yesterday.	Dry.	Wet.	Difference from 8 a.m. yesterday.	Dirac.	Force. (0 to 12.)		Weather.	Max.		Min.	
SCANDINAVIA.																		
Haparanda ...	30.10	38	Z	0	0	30.10	+0.02	33	32	0	SSW	2	0	*	36	30		
Hernösand ...	30.09	34	Z	0	7	30.09	+0.07	34	32	0	ESE	2	7	*	36	32		
Stockholm ...	30.00	34	E	4	0	29.99	+0.08	35	33	+1	E	4	0	*	37	32		
Wisby ...	29.93	36	ESE	4	0	29.91	+0.05	35	35	0	SE	4	0	*	37	34		
Bodö ...	29.91	36	E	2	6	29.94	+0.03	36	33	+1	E	2	0	1	39	32		
Christiansund ...	29.76	42	ENE	2	0	29.81	-0.05	41	39	+2	E	1	0	2	46	39		
Skudesnaes ...	29.65	45	Z	0	0	29.67	-0.04	42	41	0	Z	0	0	2	47	37	0.12	
Christiania Fjord (Færder)	29.81	36	NNE	6	0	29.86	+0.04	35	34	-1	NE	6	0	2	39	34		
Skagen (The Scaw)	29.73	39	ESE	4	0	29.75	+0.06	38	37	+1	E	3	0	3	43	37		
Fanö ...	29.43	41	E	6	6	29.53	+0.06	42	41	+3	E	4	0	*	48	39		
BRITISH ISLANDS.																		
Sumburgh Head ...	29.74	43	NE	1	6	29.70	-0.07	42	41	+3	NE	2	7	4	46	38	0.06	
Stornoway ...	29.76	44	NE	3	6	29.75	+0.03	38	37	+2	N	3	6	3	49	32	0.02	
Wick ...	29.78	44	E	2	6	29.70	-0.08	42	41	+2	E	2	7	2	49	35	0.03	
Nairn ...	29.76	42	Z	0	6	29.70	-0.05	40	39	+8	NNE	3	0	1	48	29	0.01	
Aberdeen ...	29.74	41	NW	2	6	29.63	-0.11	40	39	-1	N	4	0	5	47	39	0.15	
Leith ...	29.72	44	NE	1	0	29.62	-0.10	40	39	0	NNE	1	0	6	47	36	0.01	
Shields ...	29.64	42	N	3	0	29.48	-0.15	40	40	-1	NW	5	7	6	46	38	0.12	
Spurn Head ...	29.45	42	N	7	7	29.29	-0.21	41	41	0	N	8	0	7	43	38	0.24	
York ...	29.57	43	NNE	3	0	29.41	-0.17	39	38	-2	NW	4	7	*	45	38	0.18	
Loughborough ...	29.56	43	NW	5	0	29.45	-0.08	39	38	-1	NW	4	7	*	44	38	0.17	
GERMANY & HOLLAND.																		
Ardrossan ...	29.72	47	NW	2	6	29.64	-0.07	38	36	-1	N	1	6	0	49	34		
Malin Head ...	29.76	44	NW	1	0	29.72	+0.04	44	41	+3	N	4	6	2	48	38		
Mullaghmore ...	29.80	46	NW	4	6	29.76	+0.05	42	41	+1	NW	2	6	2	46	39		
Belmullet ...	29.85	45	N	2	6	29.76	+0.05	42	40	+3	NNE	2	6	*	48	36	0.02	
Donaghadee ...	29.74	45	NE	3	6	29.68	-0.02	43	40	+4	NNE	4	6	2	49	39		
FRANCE AND BELGIUM.																		
Liverpool (Bidston)	29.64	43	NW	3	6	29.86	-0.06	40	37	-1	NW	5	0	4	46	39		
Holyhead ...	29.70	44	N	3	0	29.64	-0.06	44	41	+2	NW	5	0	4	45	41		
Parsonstown ...	29.79	44	Z	0	0	29.76	+0.06	36	35	0	Z	0	0	*	50	32		
Valencia ...	29.88	46	NW	3	6	29.82	+0.10	38	37	+1	Z	0	6	1	50	31		
Roche's Point ...	29.75	47	NW	4	6	29.79	+0.12	40	36	-1	NW	3	6	3	50	37		
PORTUGAL.																		
Pembroke (St. Ann's Hd.)	29.72	42	N	4	6	29.68	+0.08	43	41	-1	NW	5	6	4	47	39		
Scilly ...	29.72	47	N	5	0	29.73	+0.17	46	44	0	NW	5	6	5	49	44		
Prawle Point ...	29.65	43	N	3	6	29.67	+0.16	42	40	+2	NW	4	6	2	47	35		
Jersey (St. Aubin's)	29.59	44	NW	3	0	29.66	+0.23	45	41	0	NW	5	6	4	46	42		
Hurst Castle ...	29.57	45	NNE	3	0	29.54	+0.08	42	40	+1	NW	4	6	2	45	40		
SPAIN.																		
Dungeness ...	29.41	44	N	4	7	29.36	+0.01	36	36	-7	NW	5	7	4	44	33	0.51	
London ...	29.49	43	N	4	0	29.40	-0.02	37	36	-5	NW	4	7	*	44	34	0.44	
Oxford ...	29.57	41	N	4	0	29.47	-0.02	39	37	-1	NW	5	7	*	42	35	0.01	
Cambridge ...	29.48	42	N	2	7	29.34	-0.13	38	37	-3	NW	4	7	*	45	35	0.86	
Yarmouth ...	29.39	40	N	5	0	29.21	-0.21	41	40	0	N	3	7	5	42	39	0.72	
ITALY.																		
Cuxhaven ...	29.30	45	E	3	0	29.52	+0.14	44	42	+3	SE	3	6	*	52	?		
Berlin ...	29.46	58	SE	3	0	29.65	+0.27	47	45	-2	SE	2	6	*	66	45		
Wiesbaden ...	*	*	*	*	*	29.56	+0.40	41	39	-2	WSW	2	6	*	50	34		
Munich ...	29.50	39	SW	1	6	29.52	+0.27	35	35	-4	SW	1	6	*	48	32		
The Helder ...	29.27	41	NNE	1	0	29.32	-0.02	40	39	0	SSW	3	0	3	48	39	0.20	
NETHERLANDS.																		
Brussels (8 a.m.)	*	*	*	*	*	29.38	+0.10	36	36	-7	SSW	3	7	*	45	34	0.91	
Cape Gris Nez ...	*	*	*	*	*	?	?	37	36	-5	NW	6	7	6	45	36	1.18	
Paris ...	29.45	47	NW	3	0	29.52	+0.19	41	40	+2	N	3	0	*	54	?	0.04	
Brest ...	29.69	49	N	4	0	29.75	+0.24	46	44	+2	N	4	0	3	52	41	0.04	
Lorient ...	29.64	47	NNE	4	0	29.76	+0.33	44	42	+2	NW	4	6	4	50	39		
FINLAND.																		
Rocheport ...	29.65	48	NW	5	0	29.80	+0.32	46	45	-1	NW	5	0	?	52	37		
Belfort ...	29.45	43	N	1	6	29.56	+0.24	41	34	-2	N	1	0	*	52	34		
Lyons ...	29.55	46	NW	2	6	29.62	+0.26	41	39	+5	NW	2	0	*	52	36		
Nice ...	29.30	48	NE	4	0	29.41	+0.09	42	40	+3	E	3	0	3	53	39		
Perpignan ...	29.54	46	NW	4	6	29.66	+0.35	47	41	+5	N	4	0	*	53	?		
Biarritz ...	29.71	51	NW	5	6	29.82	+0.41	48	45	+3	NW	5	7	4	54	43	0.35	
GREECE.																		
Corunna ...	*	*	*	*	*	30.13	+0.25	47	45	-2	NW	2	6	5	54	45		
Lisbon ...	30.04	49	NW	2	0													

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

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



# THE WEATHER CHARTS

for 8 a.m. on Thursday, 20<sup>th</sup> March.

1890.

## 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:

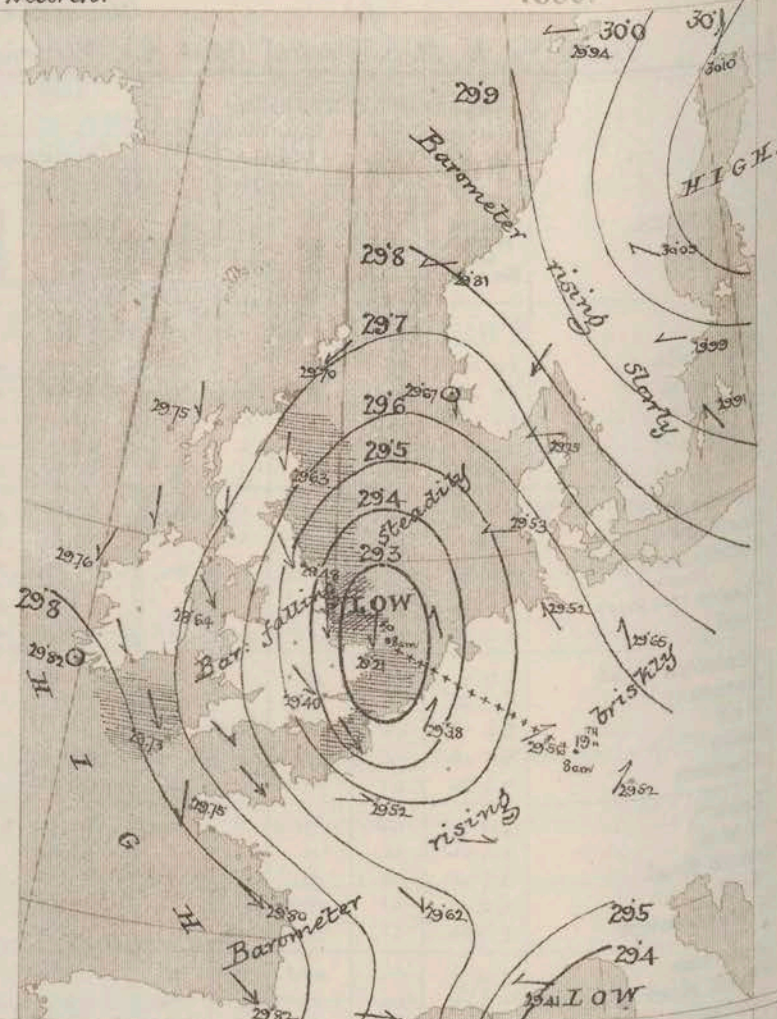
☼ = Rough. ☼ = High.

## MEAN HEIGHT OF THE BAROMETER

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

During the 15 Years: 1871—1885.

STATIONS.	MEAN READINGS.
Sumburgh Head .....	29.751
Stornoway .....	29.779
Wick .....	29.797
Nairn .....	29.815
Aberdeen .....	29.830
Leith .....	29.862
Shields .....	29.896
York .....	29.925
Loughborough .....	29.948
Ardrossan .....	29.876
Donaghadee .....	29.892
Holyhead .....	29.919
Liverpool .....	29.925
Parsonstown .....	29.940
Valencia .....	29.938
Roche's Point .....	29.941
Pembroke .....	29.944
Scilly .....	29.966
Jersey .....	29.971
Hurst Castle .....	29.966
Dover .....	29.955
LONDON .....	29.967
Oxford .....	29.966
Cambridge .....	29.957
Yarmouth .....	29.938



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

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

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

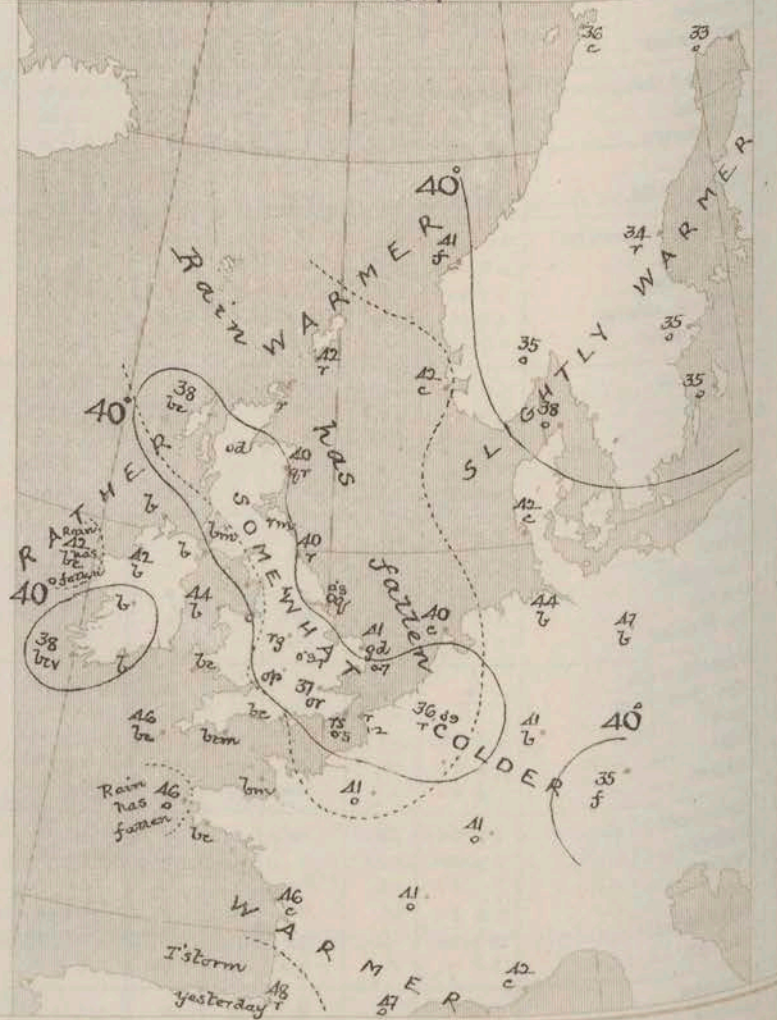
**RAINFALL**—A dotted line separates the districts in which rain has fallen from those where there has been none. Falls of 0.5 in. or more, are quoted in figures.

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

(For the month of March.)

STATIONS.	TEMPERATURE.				RAINFALL. (Inches.)
	Daily Max.	Daily Min.	At 8 a.m.	Wind.	
Sumburgh Head .....	42.6	34.0	38.5	37.1	2.92
Stornoway .....	44.9	34.4	39.2	38.0	3.87
Wick .....	44.7	33.9	39.1	37.2	1.97
Nairn .....	45.6	34.2	38.2	36.8	1.72
Aberdeen .....	45.4	34.7	38.0	36.8	2.24
Leith .....	48.2	34.6	39.7	37.9	1.36
Shields .....	45.9	35.4	39.6	38.0	1.60
York .....	48.0	33.7	38.6	37.1	1.69
Loughborough .....	49.3	34.3	39.5	37.7	1.47
Ardrossan .....	46.8	36.6	40.5	38.7	2.59
Donaghadee .....	47.3	37.1	41.0	39.7	1.99
Holyhead .....	47.0	39.2	42.5	41.0	2.21
Liverpool .....	47.3	37.1	40.8	38.7	1.69
Parsonstown .....	50.1	35.5	41.2	39.6	2.35
Valencia .....	51.6	40.6	45.4	43.4	1.24
Roche's Point .....	50.2	40.0	43.8	42.1	3.71
Pembroke .....	47.1	39.5	42.6	40.8	2.45
Scilly .....	49.3	43.0	40.5	44.7	2.38
Jersey .....	49.9	40.6	44.7	42.7	3.32
Hurst Castle .....	48.3	37.7	41.6	40.7	1.89
Dover .....	46.9	37.8	41.6	39.9	1.86
LONDON .....	50.6	35.8	40.6	38.7	1.43
Oxford .....	49.5	35.2	39.4	37.9	1.52
Cambridge .....	50.0	33.3	39.2	37.7	1.33
Yarmouth .....	45.7	35.8	40.8	39.1	1.77

**NOTE**—The Temperature means are for the 15 years 1871-85; the Rainfall means are mainly those for the 20 years 1869-89.





# GENERAL SITUATION AT 8 A.M.

## PRESSURE

Highest, 30.0 ins. to 30.1 ins. over the Gulf of Bothnia and the north of Sweden; 29.8 ins. and upwards over the Bay of Biscay and the southwest of Ireland.  
Lowest, 29.5 ins. and less, in a depression lying off the east of England; 29.4 ins. and less, over the Gulf of Genoa.

Gradients moderate generally.

Barometer falling over the greater part of our Islands, but rising at the Continental stations.

## TEMPERATURE

Highest, 48° at Biarritz, 47° at Berlin and Leipzig, 46° at Dublin, Paris and Rochefort, and 45° at Jersey.  
Lowest, 33° at Naparanda, 34° at Kermisand, 35° at Stockholm, Mäby and Lander, and 36° at Ross, Rensselaers, Dungeness, and Brussels.  
Frost occurred last night in the Fellsides and south of Ireland.

## WIND

N<sup>W</sup> or NW<sup>W</sup> over the greater part of our Islands and also in the coast of France, with a gale at Spun Head.  
Light from W. in the east of France, from SW. in Western Germany, and from SE. over North Germany and Holland.  
Light or moderate from the E<sup>W</sup> in Scandinavia and Denmark.

## WEATHER

Fine in all the more western parts of our Islands and France and also in Germany.  
Dull elsewhere with rain in the east and southeast of Great Britain, and snow at Dungeness.  
Since yesterday morning 0.8 in. of rain has fallen at Spun H<sup>d</sup>, 0.9 in. at Cambridge and Brussels, and 1.2 in. at C<sup>W</sup> N<sup>g</sup>. Snow fell in London twice this morning.

## SEA

Rough on our east coasts and rather rough at Dublin, but moderate to smooth elsewhere.

## PROBABLE CHANGES IN SYSTEM NOW PREVALENT

The depression off our east coasts will probably continue to travel slowly in a northwesterly or northerly direction, but is not likely to become deeper. The fall of the barometer which has set in at Vienna seems to indicate the advance of some new disturbance towards our western or southwestern coasts.

## FORECASTS

For the 24 hours ending at NOON on 21<sup>st</sup> March. 1890.

### DISTRICTS.

### FORECASTS.

- |   |                  |  |
|---|------------------|--|
| 0 | SCOTLAND NORTH   | { N <sup>W</sup> winds, moderate or fresh; rainy at first, some improvement later. |
| 1 | SCOTLAND EAST    |  |
| 2 | ENGLAND N.E.     | { N <sup>W</sup> and NW <sup>W</sup> winds, strong to moderate; showery to fair.   |
| 3 | ENGLAND EAST     |  |
| 4 | MIDLAND COUNTIES | { NW <sup>W</sup> to W <sup>W</sup> winds, moderate; showery to fair.              |
| 5 | ENGLAND SOUTH    |  |



### DISTRICTS.

### FORECASTS

- |    |               |  |
|----|---------------|--|
| 6  | SCOTLAND WEST | { NW <sup>W</sup> winds, backing later; fair to unsettled and some rain.                   |
| 7  | ENGLAND N.W.  |  |
| 8  | ENGLAND S.W.  | { NW <sup>W</sup> to SW <sup>W</sup> or S <sup>W</sup> winds; fine to dull and some rain.  |
| 9  | IRELAND NORTH |  |
| 10 | IRELAND SOUTH | { Wind backing to the E <sup>W</sup> or SE <sup>W</sup> ; fine 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		WEA.	SEA		BAR:	THER:		WIND		WEA.	SEA
		D.	W.	D.	F.					D.	W.	D.	F.		
Skudesnaes ...	29.67	47	44	R	2	o	2	Holyhead ...	29.68	43	40	NNE	3	b	2
Sumburgh Head ...	29.76	46	42	NE	1	c	3	Valencia ...	29.81	50	47	NW	2	bc	3
Stornoway ...	29.74	48	46	Z	0	b	2	Scilly ...	29.65	48	45	NNE	5	c	3
Aberdeen ...	29.73	44	42	NE	5	bcq	4	Jersey ...	29.54	46	44	WNW	3	c	3
Shields ...	29.64	42	41	N	3	o	4	Dungeness ...	29.40	44	42	NE	4	c	3
Ardrossan ...	29.71	48	43	NNE	2	b	1	London ...	29.49	44	42	NW	1	og	4
Malin Head ...	29.73	46	43	E	2	c	1	Yarmouth ...	29.40	42	41	NW	4	omdg	4
Mullaghmore ...	29.76	45	43	NW	2	om	2	Rochefort ...	29.60	49	48	WNW	4	o	2
Belmullet ...	29.79	47	45	NNE	2	bc	*								

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

Weather fine and bright over Spain, the Bay of Biscay, the western and extreme northern parts of our Islands, and some parts of Norway, cloudy or overcast and unsettled elsewhere, very foggy in Russia, raining in the south and southwest of France, and over the eastern and northern counties of England. Rain becoming heavy later in the northeast of France and east of our Islands, and spreading to Scotland, thunder and lightning occurring at Biarritz, wet snow falling in the east of England.

Temperature low, except over Germany and Austria; exceeding 50° over the southern and southeastern parts of the Mediterranean only, ranging between 40° and 50° over Austria, Germany, and the eastern half of our Islands, below 40° over the greater part of Ireland, Scotland, Northern and Eastern Europe, and below the freezing point over the central and northern parts of Russia. Remaining below 50° over the greater part of our Islands during the day and below 30° in France, but rising to 66° at Berlin.

Wind moderate from the N<sup>th</sup> (NE to NW) over nearly the whole of Western Europe, moderate from SE over Central Europe and the Baltic, light from the E<sup>nd</sup> over Scandinavia, variable over Russia. Irish E<sup>ly</sup> winds prevalent in the south of France. Strong SE<sup>ly</sup> in Sardinia, and S<sup>ly</sup> in Sicily, strong W<sup>ly</sup> in Algeria. N<sup>ly</sup> wind increasing in force over our eastern counties later, and backing towards NW.

Barometer highest 30.0 ins. to 30.4 ins. (and probably more) over Russia, 29.7 ins. to 29.9 ins. off the western coasts of Europe; lowest 29.2 ins. and less in two depressions — one lying off C. Sicily the other near Wiesbaden — the two forming a complex low pressure system covering Western Germany, France, and the greater part of the Mediterranean. German depression advancing northwards towards England later.

## EXPLANATION OF COLUMNS GIVEN ON PAGE 1.

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

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

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

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



# DAILY WEATHER REPORT.

for

Friday, 21<sup>st</sup> March,

1890.

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

Issued by the Meteorological Office, 63, Victoria Street, London. R. H. SCOTT, Secretary.																		
STATIONS.	YESTERDAY EVENING.					8 A.M. TO DAY.										PAST 24 HOURS.		
	BAROM.  Reading at 32° F. and Sea Level.	TEMP.  Dry.	WIND.		Weather.	BAROMETER.		SHADE TEMP.			WIND.		Sea. (0 to 9.)	SHADE TEMP.				
			Dirce.	Force. (0 to 12.)		Reading at 32° F. and Sea Level.	Difference from 8 a.m. yesterday.	Dry.	Wet.	Difference from 8 a.m. yesterday.	Dirce.	Force. (0 to 12.)		Weather.	Max.	Min.	Amount of Rainfall.	
SCANDINAVIA.																		
Haparanda ...	30.14	32	Z	0	0	30.22	+0.12	32	32	-1	E	2	0	*	36	28	-	
Hernösand ...	30.10	33	Z	0	S	30.13	+0.04	33	32	-1	SE	2	S	*	36	30	0.04	
Stockholm ...	30.00	33	ESE	4	T	29.97	-0.02	35	34	0	E	2	0	*	37	32	-	
Wisby ...	29.93	36	SE	4	0	29.88	-0.05	38	37	+3	ESE	4	0	*	38	34	-	
Bodö ...	29.99	38	E	2	C	29.92	-0.02	41	36	+5	E	2	0	1	?	32	-	
SCANDINAVIA.																		
Christiansund ...	29.69	47	ESE	3	C	29.74	-0.05	42	39	+1	E	2	0	3	46	41	-	
Skudesnaes ...	29.74	44	Z	0	0	29.72	+0.05	42	39	0	ESE	2	0	3	?	39	-	
Christiania Fjord (Færdar) ...	29.88	36	NNE	5	0	29.88	+0.02	35	33	0	NNE	5	0	1	36	34	-	
Skagen (The Scaw) ...	29.79	37	SE	3	T	29.77	+0.02	37	36	-1	NNE	4	0	4	39	36	0.04	
Fanö ...	29.63	41	E	5	0	29.58	+0.05	40	40	-2	E	4	T	*	54	37	0.04	
SCANDINAVIA.																		
Sumburgh Head ...	29.60	40	SE	3	T	29.63	-0.03	42	41	0	SE	3	0	6	43	38	0.29	
Stornoway ...	29.48	41	NE	5	T	29.44	-0.04	44	43	+6	SE	4	0	4	47	36	0.08	
Wick ...	29.52	43	SE	5	0	29.48	-0.04	41	41	-1	SE	6	TU	6	43	39	0.62	
Nairn ...	29.48	40	Z	0	T	29.44	-0.04	39	38	-1	Z	0	C	1	42	37	0.31	
Aberdeen ...	29.47	42	E	5	Oggy	29.46	-0.01	41	41	+1	ESE	3	Oggy	7	42	37	0.63	
SCANDINAVIA.																		
Leith ...	29.41	37	Z	0	T	29.46	-0.05	39	39	-1	W	1	0	*	42	36	0.38	
Shields ...	29.37	40	E	2	T	29.46	-0.09	38	37	-2	W	2	0	4	41	37	0.37	
Spurn Head ...	29.33	41	NNE	3	0	29.50	+0.17	41	39	0	WSW	4	Oggy	3	42	38	0.01	
York ...	29.35	38	NW	1	T	29.51	+0.16	41	40	+2	W	1	0	*	42	36	0.25	
Loughborough ...	29.41	40	WNW	3	0	29.55	+0.14	40	38	+1	W	2	0	*	42	36	0.23	
BRITISH ISLANDS.																		
Ardrossan ...	29.48	44	NE	1	dm	29.47	-0.01	40	39	+2	NE	1	om	1	47	37	0.15	
Malin Head ...	29.46	45	NNE	4	C	29.47	-0.01	43	40	-1	W	4	0	2	48	41	0.03	
Mullaghmore ...	29.51	45	WNW	3	0	29.53	-0.02	40	38	-2	SW	2	0	2	48	36	-	
Belmullet ...	29.55	45	ESE	2	0	29.54	-0.01	41	40	-1	SSE	2	0	*	50	35	0.03	
Donaghadee ...	29.44	45	NNE	3	0	29.51	-0.07	39	38	-1	WNW	3	0	1	48	36	-	
BRITISH ISLANDS.																		
Liverpool (Bidston) ...	29.43	41	WNW	3	0	29.54	-0.11	41	39	+1	W	3	0	3	42	37	0.03	
Holyhead ...	29.47	42	NW	1	0	29.55	-0.08	46	42	+2	WNW	1	0	1	46	38	-	
Parsonstown ...	29.51	47	Z	0	0	29.57	-0.06	33	32	-1	Z	0	C	*	50	29	-	
Valencia ...	29.51	46	ESE	3	0	29.59	-0.08	48	46	+10	WNW	6	TU	5	50	36	0.07	
Roche's Point ...	29.58	46	WSW	3	0	29.58	-0.00	47	46	+1	WSW	3	0	4	50	40	-	
BRITISH ISLANDS.																		
Pembroke (St. Ann's Hd.) ...	29.53	44	WSW	4	0	29.60	-0.07	45	44	+1	SW	3	0	3	46	42	-	
Scilly ...	29.51	46	W	4	0	29.56	-0.05	47	46	+1	S	1	0	3	48	42	0.03	
Prawle Point ...	29.58	43	WNW	5	0	29.64	-0.06	45	42	+3	S	1	0	0	49	36	0.01	
Jersey (St. Aubin's) ...	29.63	47	W	5	0	29.64	-0.01	44	41	-1	WSW	3	0	3	51	37	-	
Hurst Castle ...	29.53	46	WNW	5	0	29.63	-0.10	38	37	-1	W	3	0	2	51	33	-	
BRITISH ISLANDS.																		
Dungeness ...	29.44	43	WNW	4	0	29.58	-0.14	42	40	+2	W	2	0	1	44	34	0.10	
London ...	29.44	43	WNW	3	0	29.58	-0.14	38	36	+1	W	1	0	*	44	33	0.10	
Oxford ...	29.48	42	WNW	4	0	29.60	-0.12	36	35	-1	W	1	0	*	46	34	0.01	
Cambridge ...	29.41	39	Z	0	0	29.57	-0.16	40	38	+2	SW	1	0	*	41	32	0.34	
Yarmouth ...	29.31	39	W	4	Oggy	29.52	-0.21	40	39	-1	WSW	3	0	3	42	38	0.01	
GERMANY & HOLLAND.																		
Cuxhaven ...	29.57	45	ESE	3	0	29.54	+0.02	44	43	0	NE	2	0	*	55	43	0.02	
Berlin ...	29.61	54	SE	3	0	29.50	-0.11	49	46	+2	SE	3	0	*	59	46	0.04	
Wiesbaden ...	*	*	*	*	*	29.62	+0.06	43	41	+2	W	2	0	*	54	41	-	
Munich ...	29.53	37	SW	5	T	29.70	+0.17	38	37	+1	W	4	0	*	46	34	0.87	
The Helder ...	29.68	41	SSE	2	0	29.54	-0.14	40	40	0	S	1	0	1	43	39	-	
FRANCE AND BELGIUM.																		
Brussels (9 a.m.) ...	*	*	*	*	*	29.62	+0.14	38	37	+1	WSW	3	0	*	42	?	0.04	
Cape Gris Nez ...	?	43	W	4	0	?	?	40	39	+1	WNW	2	0	2	45	36	-	
Paris ...	29.63	45	WSW	1	0	29.65	+0.02	37	36	-1	S	1	0	*	46	34	0.20	
Brest ...	29.69	48	W	3	0	29.60	-0.09	44	43	-1	SE	2	0	3	52	43	-	
Lorient ...	29.72	46	W	5	0	?	?	44	42	0	SE	2	0	3	50	41	-	
FRANCE AND BELGIUM.																		
Rochefort ...	29.83	47	WNW	4	0	29.70	-0.13	41	41	-1	SE	4	0	*	54	34	-	
Belfort ...	29.59	46	NW	1	0	29.66	+0.07	43	36	+2	NW	1	0	*	50	39	-	
Lyons ...	29.73	43	WNW	4	0	29.73	+0.00	39	38	-1	WNW	1	0	*	51	36	-	
Nice ...	29.84	45	SE	4	m	29.65	-0.19	42	40	0	ESE	4	0	1	54	39	-	
Perpignan ...	29.80	49	NW	3	0	29.73	-0.07	35	34	-1	Z	0	0	*	52	32	-	
Biarritz ...	29.90	47	WNW	5	T	29.57	-0.33	48	42	0	S	3	0	2	54	41	0.32	
SPAIN.																		
Corunna ...	*	*	*	*	*													
Lisbon ...	*	*	*	*	*													

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

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



Friday, 21<sup>st</sup> March.

1890

A hand-drawn map of Europe and North Africa with various weather-related annotations. The map includes latitude and longitude lines. Handwritten notes include "Rain", "Snow", "frozen", "CHANCE", "WARMER", "faster", and "CHANGE". Numerous numbers are scattered across the map, some with small circles or letters next to them, possibly representing temperature or other meteorological data. The word "WINTER" is written vertically across the center of the map.



# GENERAL SITUATION AT 8 A.M.

## PRESSURE

Highest 30.2 in. and upwards, over the northern part of the Gulf of Bothnia.  
 Lowest 29.4 in. and less, in a depression lying off the coast of Scotland, 29.5 in. and less, in another disturbance lying near Berlin; 29.6 in. and less, in a shallow trough lying over the Bay of Biscay, and over our southern coast.  
 Gradients slight. Barometer rising over England and Ireland, and also in the north of Sweden, but falling elsewhere.

## TEMPERATURE

Highest, 49° at Berlin, 48° at Valencia and Biarritz, 47° at Rochester and Lillo, and 46° at Holyhead.  
 Lowest, 32° at Haparanda, 33° at Helsingfors and Stockholm, 35° at Stockholm and Helsingfors, and 36° at Oxford.  
 The changes since yesterday have been slight and irregular.

## WIND

Light or moderate from the E<sup>nd</sup> over Scandinavia and Denmark, and from the SE<sup>nd</sup> in the north and east of Scotland.  
 W<sup>nd</sup> over the greater part of Ireland and England, but light from the S<sup>nd</sup> over our southern counties.  
 SE<sup>nd</sup> in the west of France; variable in the east and south of that country.

## WEATHER

Fine over the greater part of England, and also over the central and southern parts of France.  
 Dull elsewhere with rain in the east of Scotland and the south of Denmark as well as at Valencia, and snow at Helsingfors.  
 Rain fell yesterday in most parts of Western Europe, and a thunderstorm occurred at Biarritz.

## SEA

High or rough off the north and northeast of Scotland, and rather rough at Valencia, but moderate to smooth elsewhere.

## PROBABLE CHANGES IN SYSTEM NOW PREVALENT

With the present very irregular distribution of pressure it is almost impossible to say in which direction the various low pressure systems will move. It is, however, not improbable that the new depression over Germany will advance, like its predecessor, in a northwesterly direction towards our east coast. Changeable weather is likely to continue in most parts of the Kingdom.

## FORECASTS

For the 24 hours ending at NOON on 22<sup>nd</sup> March 1890.

### DISTRICTS.

### FORECASTS.

0 SCOTLAND NORTH	SE <sup>nd</sup> to E <sup>nd</sup> winds, moderate or fresh; unsettled, some rain.
1 SCOTLAND EAST	
2 ENGLAND N.E.	
3 ENGLAND EAST	Same as N°5.
4 MIDLAND COUNTIES	
5 ENGLAND SOUTH	W <sup>nd</sup> to NW <sup>nd</sup> or N <sup>nd</sup> winds; fair to dull and some rain.

### DISTRICTS.

### FORECASTS

6 SCOTLAND WEST	Light Variable breezes; dull, misty, some rain.
7 ENGLAND N.W.	Same as N°5
8 ENGLAND S.W.	S <sup>nd</sup> winds, shifting to the NW <sup>nd</sup> ; changeable, some showers.
9 IRELAND NORTH	W <sup>nd</sup> winds, varying in force; changeable, some showers.
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		WEA.	SEA		BAR:	THER:		WIND		WEA.	SEA
		D.	W.	D.	F.					D.	W.	D.	F.		
Skudesnaes ...	29.70	45	42	W	2	0	2		Holyhead ...	29.53	45	41	W	3	3
Sumburgh Head ...	29.61	42	42	NE	3	T	4		Valencia ...	29.64	49	44	SSW	3	3
Stornoway ...	29.59	46	45	NE	4	0	4		Seilly ...	29.68	46	43	W	4	4
Aberdeen ...	29.49	40	40	ENE	6	0 2 1 4	6		Jersey ...	29.64	51	46	WNW	5	4
Shields ...	29.38	38	38	W	4	T	6		Dungeness ...	29.40	41	40	W	6	4
Ardrossan ...	29.48	47	43	N	2	0	1		London ...	29.41	44	42	WNW	3	4
Malin Head ...	29.57	45	40	N	3	0	2		Yarmouth ...	29.24	42	41	WNW	2	4
Mullaghmore ...	29.60	48	44	W	4	0	2		Rocheport ...	29.64	50	49	W	5	4
Belmullet ...	29.64	48	44	WNW	2	0	*								

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

Weather fine over the western parts of our Islands, Spain, and Algeria, fair, but foggy locally in Hungary, and Southern Russia, changeable and unsettled elsewhere. Rain and snow over the northern and eastern parts of Great Britain, rain in Italy and the southwest of France, with thunder and lightning at Biarritz, rain and elect over Finland and the north of Sweden. The falls of rain considerable over the North Sea, and northern parts of Great Britain later, and also at Munich and Biarritz, but very little at our western and southwestern stations.

Temperature ranging from 50° to 59° over the eastern, southern, and western shores of the Mediterranean only, below 50° over France and Germany, below 40° over the greater part of the British Islands and the Baltic, and below the freezing point over Central and northern Russia; lowest individual readings 26° at Moscow and Archangel. Daily maxima below 50° at most British stations, and below 60° over Germany and France; falling fast over England at night.

Wind N<sup>1</sup> and NW<sup>1</sup> over the British Isles, strong at the English stations, NW<sup>1</sup> to W<sup>1</sup> and moderate over France, S<sup>1</sup> to SE<sup>1</sup> over Germany and the Baltic, E<sup>1</sup> over Scandinavia. Another cyclonic circulation prevalent over the Mediterranean and southern Europe. Becoming more W<sup>1</sup> in the south of England, and more E<sup>1</sup> in Scotland towards night, while S<sup>1</sup> breezes appeared in the west of Ireland.

Barometer highest, 30.0 ins. to nearly 30.5 ins. over Russia, 29.8 ins. to 30.1 ins. over the Bay of Biscay, Spain and Algeria; lowest 29.3 ins. and less, in two depressions, the centre of one being near Rome, the other off the coast of Norfolk. The latter depression moving northwards later, while a new disturbance moving southwards appeared off our western coast.

### EXPLANATION OF COLUMNS GIVEN ON PAGE 1.

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

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

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

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



# DAILY WEATHER REPORT.

for *Saturday, 22<sup>nd</sup> March,* 1890.  
*Issued by the Meteorological Office, 63, Victoria Street, London. R. H. SCOTT, Secretary.*

Issued by the Meteorological Office, 63, Victoria Street, London. R. H. SCOTT, Secretary.																		
STATIONS.	YESTERDAY EVENING.					8 A.M. TO DAY.										PAST 24 HOURS.		
	BAROM.	TEMP.	WIND.		Weather.	BAROMETER.		SHADE TEMP.			WIND.		Weather.	Sea. (0 to 4.)	SHADE TEMP.			
	Reading at 32° F. and Sea Level.	Dry.	Dirce.	Force. (0 to 12.)		Reading at 32° F. and Sea Level.	Difference from 8 a.m. yesterday.	Dry.	Wet.	Difference from 8 a.m. yesterday.	Dirce.	Force. (0 to 12.)			Max.	Min.	Amount of Rainfall.	
SCANDINAVIA.																		
Haparanda ...	30.19	34	SW	2	0	30.10	- .12	33	32	+ 1	2	0	0	*	36	28	-	
Hernösand ...	30.10	33	2	0	0	29.96	- .14	34	34	+ 1	E.N.E.	2	0	*	36	30	0.04	
Stockholm ...	29.93	35	E	4	1	29.82	- .15	35	34	0	E	2	1	*	37	32	0.04	
Wisby ...	29.85	38	E.S.E.	4	0	29.74	- .14	39	?	+ 1	SE	3	0	*	41	36	0.12	
Bodo ...	29.91	40	E	6	6	29.85	- .04	36	32	- 5	E.N.E.	4	6	2	46	32	-	
CHRISTIANIA.																		
Christiansund	29.73	45	2	0	bc	29.69	- .05	43	39	+ 1	E	1	0	2	54	41	-	
Skudesnaes ...	29.75	44	E	2	0	29.68	- .04	44	41	+ 2	N	1	0	2	48	41	-	
Christiania Fjord (Færder)	29.86	36	N.E.	5	0	29.75	- .13	35	35	0	N.N.E.	5	1	2	36	34	-	
Skagen (The Seaw)	29.76	39	E.S.E.	3	0	29.66	- .11	36	36	- 1	E	2	1	3	41	36	-	
Fanø ...	29.59	40	E	4	1	29.60	+ .02	39	39	- 1	S.S.W.	2	m	*	43	39	0.16	
SCOTLAND.																		
Sumburgh Head	29.64	41	SE	3	1	29.58	- .05	41	40	- 1	SE	3	1	6	43	38	0.20	
Stornoway ...	29.51	44	E	1	1	29.44	- .07	43	43	- 1	SW	6	1	6	47	36	0.05	
Wick ...	29.54	43	SE	2	c	29.54	+ .06	43	42	+ 2	S	3	bc	4	43	40	0.15	
Nairn ...	29.54	45	2	0	c	29.52	+ .08	37	36	- 2	S	1	bc	1	46	32	-	
Aberdeen ...	29.59	42	S.S.E.	2	cg	29.58	+ .12	41	40	0	S.S.E.	2	om	5	44	41	0.05	
ENGLAND.																		
Leith ...	29.58	45	2	0	0	29.58	+ .12	45	43	+ 6	N.W.	1	c	*	49	36	-	
Shields ...	29.62	45	2	0	c	29.62	+ .16	41	39	+ 3	W	1	pm	3	46	36	-	
Spurn Head ...	29.61	44	W	4	om	29.65	+ .15	42	39	+ 1	W	3	bc	2	45	39	-	
York ...	29.58	44	W	1	0	29.67	+ .16	40	40	- 1	W	1	1	*	46	35	0.03	
Loughborough	29.66	46	N.W.	1	0	29.72	+ .17	38	37	- 2	E	1	0	*	52	32	0.01	
IRELAND.																		
Ardrossan	29.59	47	N.W.	1	b	29.59	+ .12	44	43	+ 4	N.W.	2	c	1	47	37	-	
Malin Head ...	29.57	45	S	1	og	29.53	+ .06	41	39	- 2	S.S.E.	4	0	2	49	41	0.05	
Mullaghmore ...	29.64	47	W	5	cp	29.54	+ .01	44	42	+ 4	S	5	or	4	49	39	0.05	
Belmullet ...	29.68	48	N.W.	4	b	29.67	- .04	47	47	+ 6	N.W.	6	0	*	50	41	0.14	
Donaghadee ...	29.63	49	N.W.	2	c	29.64	+ .13	41	40	+ 2	N.W.	3	c	1	54	38	-	
BRITISH ISLANDS.																		
Liverpool (Bidston)	29.68	43	N.W.	1	b	29.70	+ .16	44	42	+ 3	W	2	b	3	47	39	0.04	
Holyhead ...	29.67	45	SW	1	b	29.70	+ .15	45	43	- 1	N.W.	1	bc	1	52	40	-	
Parsonstown ...	29.71	49	W	1	c	29.66	+ .09	40	39	+ 7	2	0	1	*	53	32	0.03	
Valencia ...	29.79	49	N.W.	3	bm	29.61	+ .02	50	49	+ 2	S	6	rm	5	52	39	0.16	
Roche's Point...	29.70	49	N.W.	4	c	29.67	+ .09	48	47	+ 1	SW	4	rm	4	51	40	0.05	
EUROPE.																		
Pembroke (St. Ann's Hd.)	29.72	46	SW	2	c	29.76	+ .16	45	44	0	N.W.	3	cg	5	49	43	0.05	
Scilly ...	29.71	49	N.W.	3	c	29.80	+ .24	47	43	0	W	5	bc	5	52	43	0.06	
Prawle Point ...	29.74	45	SW	2	c	29.81	+ .14	46	45	+ 1	W	1	og	1	51	43	-	
Jersey (St. Aubin's)	29.76	48	N.W.	3	bc	29.84	+ .20	47	46	+ 3	N.W.	3	og	3	54	41	-	
Hurst Castle ...	29.72	46	W	3	b	29.80	+ .17	46	45	+ 8	W	3	cm	2	49	36	-	
FRANCE AND BELGIUM.																		
Dungeness ...	29.68	43	W	4	bc	29.76	+ .18	44	43	+ 2	N.W.	4	0	2	48	39	0.02	
London ...	29.68	46	N.W.	2	b	29.76	+ .18	44	41	+ 4	SW	2	0	*	51	35	0.05	
Oxford ...	29.72	44	W	2	b	29.75	+ .15	44	43	+ 8	N.W.	2	c	*	53	36	0.01	
Cambridge ...	29.68	45	N.W.	1	0	29.74	+ .17	39	39	- 1	SW	1	0	*	54	32	-	
Yarmouth ...	29.61	44	N.W.	2	c	29.68	+ .16	42	40	+ 2	N.W.	2	bc	3	45	38	0.02	
GERMANY.																		
Cuxhaven ...	29.54	40	W	4	1	29.66	+ .12	40	40	- 4	S.S.W.	3	0	*	?	39	0.28	
Berlin ...	29.70	44	SW	3	0	29.86	+ .36	41	40	- 8	S.S.W.	2	b	*	54	37	-	
Wiesbaden ...	*	*	*	*	*	29.86	+ .24	40	38	- 3	2	0	0	*	50	34	-	
Munich ...	29.76	41	E	2	bc	29.87	+ .17	35	35	- 3	SW	1	bc	*	46	32	-	
The Helder ...	29.63	41	SW	1	f	29.67	+ .15	41	41	+ 1	N.W.	1	f	2	45	?	0.04	
NETHERLANDS.																		
Brussels (2 a.m.)	*	*	*	*	*	29.81	+ .19	38	37	0	SW	5	0	*	49	38	-	
Cape Gris Nez	?	43	N.W.	3	c	?	?	43	42	+ 3	W	3	c	3	48	39	-	
Paris ...	29.76	44	2	0	bc	29.88	+ .23	34	34	- 3	S.S.W.	1	b	*	47	32	-	
Brest ...	29.80	51	W	1	b	29.86	+ .26	45	?	+ 1	N	3	c	4	57	43	0.08	
Lorient ...	29.79	49	W	1	c	29.90	?	46	45	+ 2	N.W.	3	bc	4	54	41	0.12	
SPAIN.																		
Rocheport ...	29.83	50	N.W.	3	c	29.94	+ .24	47	46	+ 6	SW	3	0	?	63	39	-	
Belfort ...	29.74	48	N.E.	2	b	29.86	+ .13	37	35	- 2	N	1	0	*	55	34	-	
Lyons ...	29.72	46	SE	4	c	29.87	+ .22	43	39	+ 1	E	4	b	1	54	39	0.20	
Nice ...	29.71	48	N.E.	2	0	29.93	+ .20	47	41	+ 12	N.W.	2	bc	*	57	?	-	
Perpignan ...	29.74	53	N	3	c	29.99	+ .42	50	47	+ 2	W	4	0	5	57	48	-	
PORTUGAL.																		
Corunna ...	*	*	*	*	*	30.14	+ .17	50	46	- 3	N.W.	5	b	6	55	48	0.20	
Lisbon ...	30.14	51	N.W.	4	0	30.23	+ .17	50	46	- 3	N.W.	5	b	6	55	48	0.20	

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

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



# WEATHER CHARTS

for 8 a.m. on Saturday, 22<sup>nd</sup> March.

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:

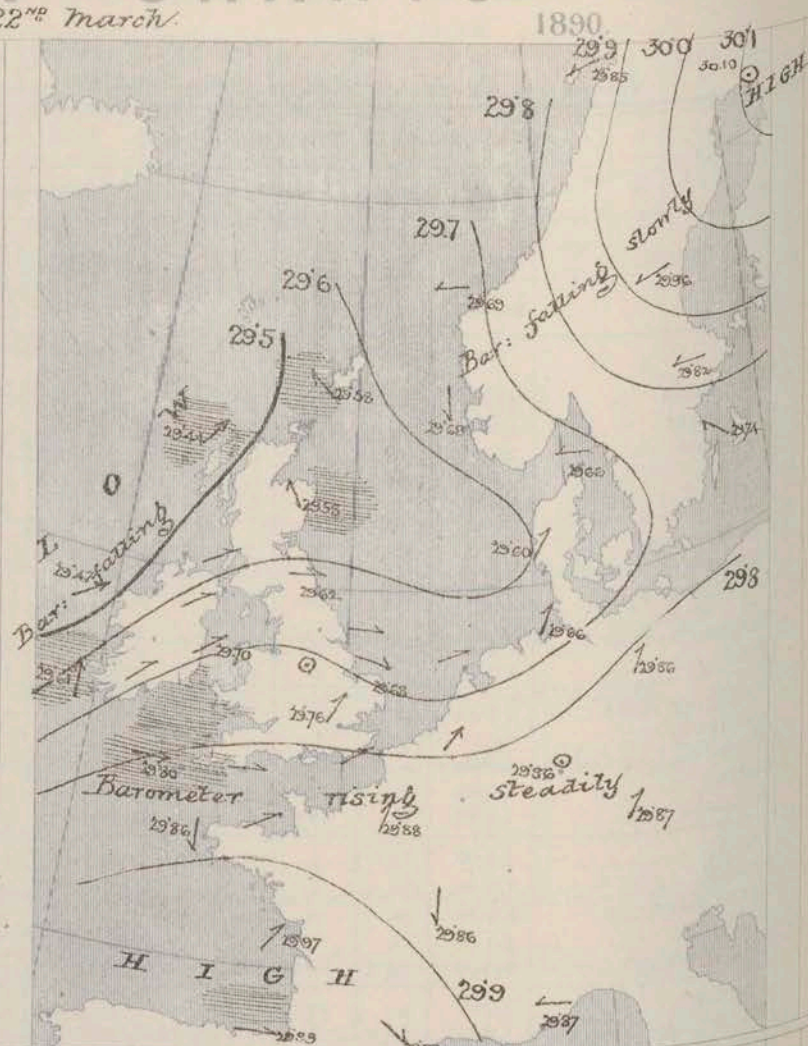
☼ = Rough, ☼ = High.

## MEAN HEIGHT OF THE BAROMETER

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

During the 15 Years: 1871—1885.

STATIONS.	MEAN READINGS.
Sumburgh Head	29.751
Stornoway	29.779
Wick	29.797
Nairn	29.815
Aberdeen	29.830
Leith	29.862
Shields	29.896
York	29.925
Loughborough	29.948
Ardrossan	29.876
Donaghadee	29.892
Holyhead	29.919
Liverpool	29.925
Parsonstown	29.940
Valencia	29.938
Roche's Point	29.941
Pembroke	29.944
Scilly	29.966
Jersey	29.971
Hurst Castle	29.968
Dover	29.955
LONDON	29.967
Oxford	29.966
Cambridge	29.957
Yarmouth	29.938



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

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

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

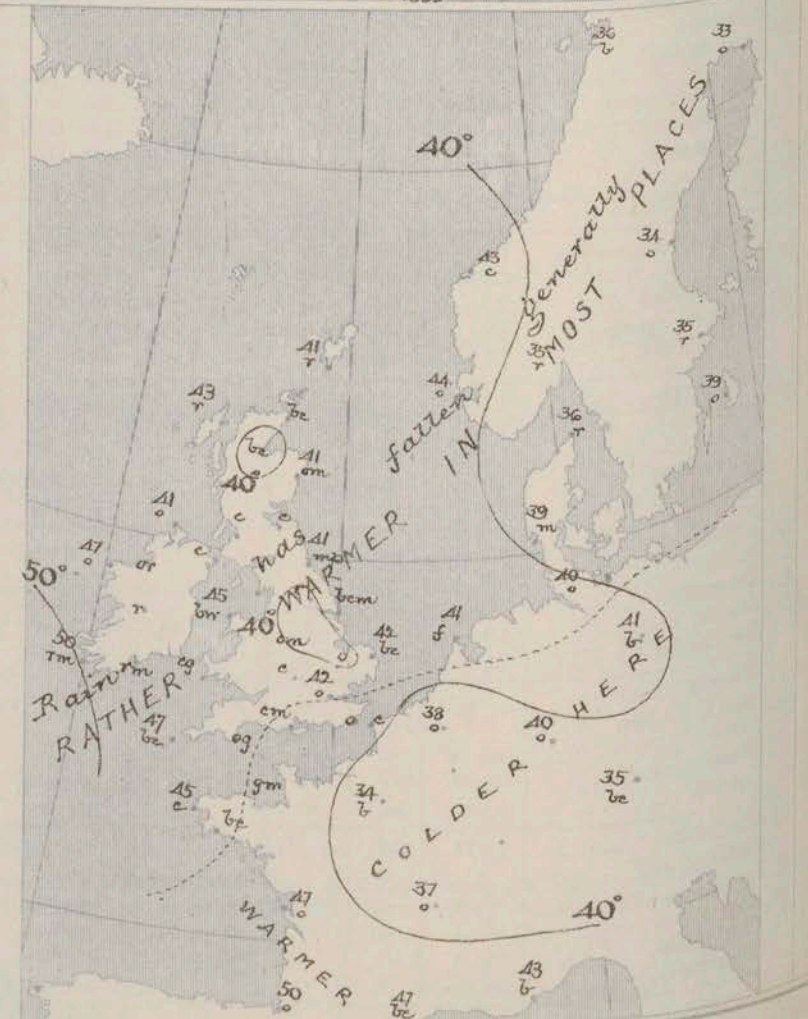
**RAINFALL**—A dotted line separates the districts in which rain has fallen from those where there has been none. Falls of 0.5 in. or more, are quoted in figures.

## MEANS OF TEMPERATURE IN SHADE, AND RAINFALL.

(For the month of March.)

STATIONS.	TEMPERATURE.				RAINFALL. (Inches.)
	Daily Max.	Daily Min.	at 8 a.m. Dry.	Wet.	
Sumburgh Head	42.6	34.0	38.5	37.1	2.92
Stornoway	44.9	34.4	39.2	38.0	3.87
Wick	44.7	33.9	39.1	37.2	1.97
Nairn	45.6	34.2	38.2	36.3	1.72
Aberdeen	45.4	34.7	38.9	36.8	2.24
Leith	48.2	34.6	39.7	37.9	1.36
Shields	45.9	35.4	39.6	38.4	1.60
York	48.9	33.7	38.6	37.1	1.63
Loughborough	49.3	34.3	39.5	37.7	1.47
Ardrossan	46.8	36.6	40.5	38.7	2.69
Donaghadee	47.3	37.1	41.0	39.7	1.99
Holyhead	47.6	39.2	42.5	41.0	2.21
Liverpool	47.3	37.1	40.8	38.7	1.69
Parsonstown	50.1	35.5	41.2	39.6	2.35
Valencia	51.0	40.6	45.4	43.4	4.24
Roche's Point	50.2	40.0	43.8	42.1	3.71
Pembroke	47.1	39.5	42.6	40.8	2.46
Scilly	49.9	43.0	46.6	44.7	2.38
Jersey	49.9	40.5	44.7	42.7	2.32
Hurst Castle	48.3	37.7	41.6	40.7	1.80
Dover	46.9	37.8	41.6	39.9	1.86
LONDON	50.6	35.8	40.6	38.7	1.43
Oxford	49.5	35.2	39.4	37.9	1.52
Cambridge	50.6	35.3	39.2	37.7	1.33
Yarmouth	45.7	35.8	40.8	39.1	1.77

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





# GENERAL SITUATION AT 8 A.M.

## PRESSURE

Highest, 30.0 ins. to 30.1 ins. in the extreme north of Sweden; 29.9 ins. and upwards, over the Iberian Peninsula, the Bay of Biscay and the northwest of France.  
 Lowest, 29.5 ins. and less, in the northwest of Scotland and the extreme west of Ireland.  
 Gradients slight, but increasing in the west.

## TEMPERATURE

Barometer falling in Scandinavia and the west and north of our islands—chiefly at København, but rising elsewhere.  
 Highest, 55° at København and Biaritz, 47° at Kilmullet, Scilly, Jersey, Rochefort and Bapaume, and 46° at Brucklitz and Lorient.  
 Lowest, 33° at Kaspamunda, 34° at Verisand and Paris, 35° at Stockholm, Bergen, and Munich, and 36° at Abo and Skagen.  
 Frost occurred last night at some of our island stations; in London the thermometer on the grass fell to 34°.

## WIND

Strong from the S.W. or S.W.W. on the east coasts of Ireland and Scotland.  
 Light from the W. over England, from the S.W. over Germany and the Netherlands, and from the E. in Scandinavia.  
 Variable in the south of France.

## WEATHER

Fine over the greater part of England, France, and Germany as well as in the east of Scotland.  
 Breezy showers, with rain in Ireland as well as in the Shetlands, Fehrn, and the south of Scandinavia.  
 A little sleet fell in London early this morning.

## SEA

Rough off the north of Scotland and rather rough on our southwest coasts, but moderate to smooth elsewhere.

## PROBABLE CHANGES IN SYSTEM NOW PREVALENT

The depression which is approaching our western coasts seems likely to occasion some increase of wind in the west and north generally, and the rainy weather now prevailing in Ireland will probably extend eastwards over the kingdom.

## FORECASTS

For the 24 hours ending at NOON on 23<sup>rd</sup> March. 1890.

### DISTRICTS.

### FORECASTS.

- |   |                  |   |
|---|------------------|---|
| 0 | SCOTLAND NORTH   | S <sup>W</sup> and S.W <sup>W</sup> winds, increasing in force; unsettled, some rain.         |
| 1 | SCOTLAND EAST    | S <sup>W</sup> winds, freshening; fair to unsettled and some rain.                            |
| 2 | ENGLAND N.E.     | Same as No 5  |
| 3 | ENGLAND EAST     |   |
| 4 | MIDLAND COUNTIES |   |
| 5 | ENGLAND SOUTH    | S.W <sup>W</sup> winds, light or moderate; fair at first, doubtful later, probably some rain. |

### DISTRICTS.

### FORECASTS

- |    |               |   |
|----|---------------|---|
| 6  | SCOTLAND WEST | S <sup>W</sup> and S.W <sup>W</sup> winds, freshening; fair to unsettled and some rain. |
| 7  | ENGLAND N.W.  |   |
| 8  | ENGLAND S.W.  |   |
| 9  | IRELAND NORTH | S <sup>W</sup> and S.W <sup>W</sup> winds, strong; squally, some rain.                  |
| 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		WEA.	SEA		BAR:	THER:		WIND		WEA.	SEA
		D.	W.	D.	F.					D.	W.	D.	F.		
Skudesnaes ...	29.74	48	42	ESE	2	O	2	Holyhead ...	29.65	50	44	WSW	1	b	1
Sumburgh Head ...	29.65	41	40	SE	3	T	6	Valencia ...	29.74	50	47	WSW	4	o g m	4
Stornoway ...	29.68	44	44	SE	3	C	3	Scilly ...	29.68	52	50	WSW	2	bc	3
Aberdeen ...	29.53	43	42	SW	2	O g	6	Jersey ...	29.72	51	45	SW	3	bc	2
Shields ...	29.56	45	42	WNW	2	O	4	Dungeness ...	29.64	48	43	W	4	bc	3
Ardrossan ...	29.54	46	44	W	1	O	1	London ...	29.65	50	45	WNW	2	c	3
Malin Head ...	29.55	48	44	W	4	b	3	Yarmouth ...	29.58	45	43	WSW	1	c	3
Mullaghmore ...	29.59	43	45	SW	2	O	2	Rocheport ...	29.75	57	54	SE	3	c	?
Belmullet ...	29.62	50	48	WNW	3	C	*								

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

Weather fine over the southern and south-western parts of Great Britain, the greater part of France and the southern shores of the Mediterranean; cloudy or changeable elsewhere, with rain over Holstein, Scotland, the south-west of Ireland and in some parts of Italy. Rain falling later in several parts of our Islands and France, but amounts not large; fine weather continuing in the south and west of England all day.

Temperature in morning exceeding 50° on the eastern, southern, and western shores of the Mediterranean, as well as on the Atlantic coast of Spain, and as high as 48° at Valencia (Ireland), 47° at Scilly, 40° to 46° over North Germany. Below 40° in the northern and central parts of England and Ireland, as well as over the Baltic and Eastern Europe, but below the freezing point in some parts of Russia and the north of Sweden only.

Rising later to between 50° and 60° over several parts of England, and in France and Germany.

Wind mainly SE<sup>1</sup> over Russia, Germany, and the North Sea, E<sup>2</sup> over Northern Europe, very variable over Western Europe and the Mediterranean; light to moderate generally. Becoming W<sup>2</sup> and SW<sup>2</sup> over the United Kingdom later, except in the north of Scotland, where, however, the SE wind decreased in strength.

Barometer highest, 30.0 ins. to 30.4 ins. over Russia, Ireland, and the northern parts of Sweden, and 29.8 ins. to 30.0 ins. and more, over the southern half of Spain and the southern shores of the Mediterranean; lower over the British Isles, the Bay of Biscay, France, and Central Europe, and as low as 29.4 ins. off the west of Scotland, 29.5 ins. and less, in a new small depression over Germany, 29.6 ins. and less in another near Biarritz, and 29.7 ins. and less in a fourth lying over the south of France and Gulf of Genoa. Rising over western and north-western Europe all day, and some of the disturbances filling up.

### EXPLANATION OF COLUMNS GIVEN ON PAGE 1.

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

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

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

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



# DAILY WEATHER REPORT.

for Sunday 23<sup>rd</sup> March

1890.

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

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

STATIONS.	YESTERDAY EVENING.					8 A.M. TO DAY.										PAST 24 HOURS.		
	BAROM.	TEMP.	WIND.		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.	Dry.	Dir.	Force. (0 to 12.)		Reading at 32° F. and Sea Level.	Difference from 8 a.m. yesterday.	Dry.	Wet.	Difference from 8 a.m. yesterday.	Dir.				Max.	Min.		
SCANDINAVIA.																		
Haparanda ...	29.89	32	Z	0	o	29.83	- .27	33	22	0	S	2	o	*	36	30	0.04	
Hernösand ...	29.84	32	ENE	2	s	29.80	- .16	38	38	- 1	SE	2	f	*	36	32	0.12	
Stockholm ...	29.85	38	S	2	o	29.84	+ .02	39	37	+ 4	SE	2	f	*	41	34	0.04	
Wisby ...	29.91	37	SW	4	b	29.86	+ .12	37	36	- 2	S	4	bc	*	45	34	—	
Bodö ...	29.75	35	E	2	b	29.64	- .21	37	34	+ 1	E	2	o	1	41	30	—	
CHRISTIANIA.																		
Christiansund	29.62	42	N	1	o	29.61	- .08	42	40	- 1	SE	1	r	1	46	41	—	
Skudesnaes ...	29.67	42	N	1	o	29.66	- .02	40	37	- 4	SSE	2	o	2	46	37	—	
Christiania Fjord (Færd)	29.70	36	N	2	r	29.69	- .06	37	37	+ 2	Z	0	f	2	?	35	0.39	
Skagen (The Scaw)	29.67	39	S	1	o	29.65	+ .02	39	39	+ 3	SW	1	f	0	39	34	0.32	
Fanö ...	29.69	40	SW	4	o	29.73	+ .13	38	38	- 1	SW	4	f	*	43	37	0.04	
SCOTLAND.																		
Sumburgh Head	29.52	41	SE	2	o	29.43	- .15	43	42	+ 2	SW	1	o	4	44	37	0.09	
Stornoway ...	29.34	43	S	7	r	29.40	- .04	43	43	0	SW	4	c	4	47	36	0.08	
Wick ...	29.42	43	S	4	c	29.50	- .04	43	39	0	S	3	bc	2	47	36	—	
Nairn ...	29.42	46	Z	0	c	29.48	- .04	39	37	+ 2	Z	0	b	1	50	35	—	
Aberdeen ...	29.51	42	SSE	3	cu	29.52	- .06	44	42	+ 3	W	1	bc	3	46	40	—	
ENGLAND.																		
Leith ...	29.54	44	WSW	1	o	29.54	- .04	43	41	- 2	WSW	1	c	*	51	41	0.01	
Shields ...	29.62	45	SSW	2	o	29.57	- .05	45	44	+ 4	SSW	1	f	2	50	39	0.01	
Spurn Head ...	29.66	47	WSW	2	adm	29.59	- .06	45	44	+ 3	SW	2	og	2	50	41	0.02	
York ...	29.65	45	WSW	1	r	29.60	- .07	46	45	+ 6	SSW	1	o	*	52	39	0.01	
Loughborough	29.71	50	W	2	o	29.64	- .08	45	44	+ 7	SW	3	o	*	54	38	0.01	
IRISH ISLANDS.																		
Ardsrossan ...	29.45	44	S	3	opa	29.54	- .05	43	42	- 1	ENE	1	bmw	1	47	37	0.03	
Malin Head ...	29.45	47	WSW	3	cm	29.51	- .02	39	38	- 2	S	3	bmw	3	50	39	0.03	
Mullaghmore ...	29.50	48	SW	4	c	29.53	- .01	41	39	- 3	SSW	1	bc	?	51	39	0.12	
Belmullet ...	29.52	45	W	6	o	29.55	+ .08	44	43	- 3	WSW	2	b	*	51	39	0.10	
Donaghadee ...	29.53	48	W	2	bc	29.55	- .09	41	41	0	WNW	2	c	0	48	39	0.02	
ENGLAND.																		
Liverpool (Bidston)	29.64	44	SE	2	o	29.57	- .13	44	41	0	SSE	2	r	3	51	43	0.16	
Holyhead ...	29.60	45	SSW	4	adm	29.53	- .17	44	44	- 1	SSW	3	rmg	3	48	44	0.36	
Parsonstown ...	29.60	50	Z	0	bc	29.58	- .08	37	36	- 3	Z	0	r	*	54	35	0.45	
Valencia ...	29.65	48	WSW	5	opm	29.66	+ .05	46	43	- 4	WNW	3	bc	2	54	40	0.49	
Roche's Point...	29.66	50	W	4	bc	29.54	- .13	41	38	- 7	NW	5	bc	4	54	39	0.25	
IRELAND.																		
Pembroke (St. Ann's Hd.)	29.67	46	SW	4	c	29.54	- .22	45	44	0	SW	5	pg	5	48	44	0.20	
Scilly ...	29.74	50	W	4	c	29.65	- .15	46	43	- 1	WNW	7	creg	5	51	43	0.14	
Prawle Point ...	29.80	47	SW	4	f	29.67	- .14	45	45	- 1	SW	6	rm	4	49	44	0.05	
Jersey (St. Aubin's)	29.89	49	WSW	4	c	29.81	- .08	49	47	+ 2	SW	4	ogm	3	52	46	—	
Hurst Castle ...	29.82	47	SW	4	cd	29.73	- .07	47	46	+ 1	SW	5	impd	3	49	44	0.02	
ENGLAND.																		
Dungeness ...	29.79	45	WSW	5	c	29.73	- .03	45	45	+ 1	WSW	4	m	3	48	43	0.10	
London ...	29.77	50	S	2	c	29.71	- .05	48	45	+ 6	SSW	2	bc	*	53	43	0.01	
Oxford ...	29.76	47	WSW	3	o	29.68	- .07	44	43	0	S	3	o	*	53	42	—	
Cambridge ...	29.73	48	SW	1	o	29.68	- .06	46	45	+ 7	SW	1	o	*	54	37	0.01	
Yarmouth ...	29.71	48	WSW	3	cp	29.66	- .02	47	46	+ 5	WSW	3	c	3	51	40	0.05	
GERMANY.																		
Cuxhaven ...	29.72	41	WSW	3	r	29.78	+ .12	42	42	+ 2	SSW	3	f	*	44	40	0.22	
Berlin ...	29.91	42	Z	0	b	29.94	+ .08	42	40	+ 1	SW	3	c	*	45	39	—	
Wiesbaden ...	*	*	*	*	*	29.98	+ .12	41	40	+ 1	SW	2	r	*	50	36	0.04	
Munich ...	29.99	40	SW	2	r	30.07	+ .20	38	36	+ 3	SW	4	bc	*	48	30	0.04	
The Helder ...	29.78	42	SSW	2	o	29.74	+ .07	42	42	+ 1	SSW	3	f	3	45	41	0.04	
FRANCE AND BELGIUM.																		
Brussels (9 a.m.)	*	*	*	*	*	29.85	+ .04	46	43	+ 8	SW	2	c	*	50	38	0.04	
Cape Gris Nez	?	44	WSW	4	o	?	?	44	43	+ 1	SW	5	o	5	46	41	0.08	
Paris ...	29.92	48	SW	2	b	29.93	+ .05	43	43	+ 4	SSW	3	o	*	53	34	—	
Brest ...	29.87	50	SW	4	r	29.89	- .03	50	48	+ 5	SW	4	o	5	57	45	0.24	
Lorient ...	29.97	49	SW	3	o	29.84	- .06	49	46	+ 3	SW	4	o	4	52	45	0.04	
SPAIN.																		
Rochefort ...	30.12	50	WNW	4	o	30.06	+ .09	50	50	+ 3	WSW	3	c	?	55	41	0.16	
Belfort ...	29.93	44	NW	1	o	29.96	+ .03	43	34	+ 5	NW	1	o	*	55	41	—	
Lyons ...	30.05	46	N	1	o	30.13	+ .27	42	?	+ 5	WNW	1	c	*	50	37	0.08	
Nice ...	29.97	46	W	3	c	30.04	+ .17	42	39	- 1	E	4	b	1	51	37	0.04	
Perpignan ...	30.06	54	NW	3	b	30.17	+ .24	48	44	+ 1	W	2	b	*	59	42	—	
Biarritz ...	30.15	50	WNW	5	r	30.12	+ .13	51	47	+ 1	SW	3	o	2	55	45	0.24	
PORTUGAL.																		
Coruuna ...	*	*	*	*	*	30.10	- .06	52	?	+ 1	SW	3	r	4	57	50	0.04	
Lisbon ...	30.27	52	NNW	4	b	30.26	+ .03	51	50	+ 1	NW	3	o	3	59	48	—	

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

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



# WEATHER CHARTS

for 8 a.m. on

Sunday, 23<sup>rd</sup> March,

1890.

## 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—

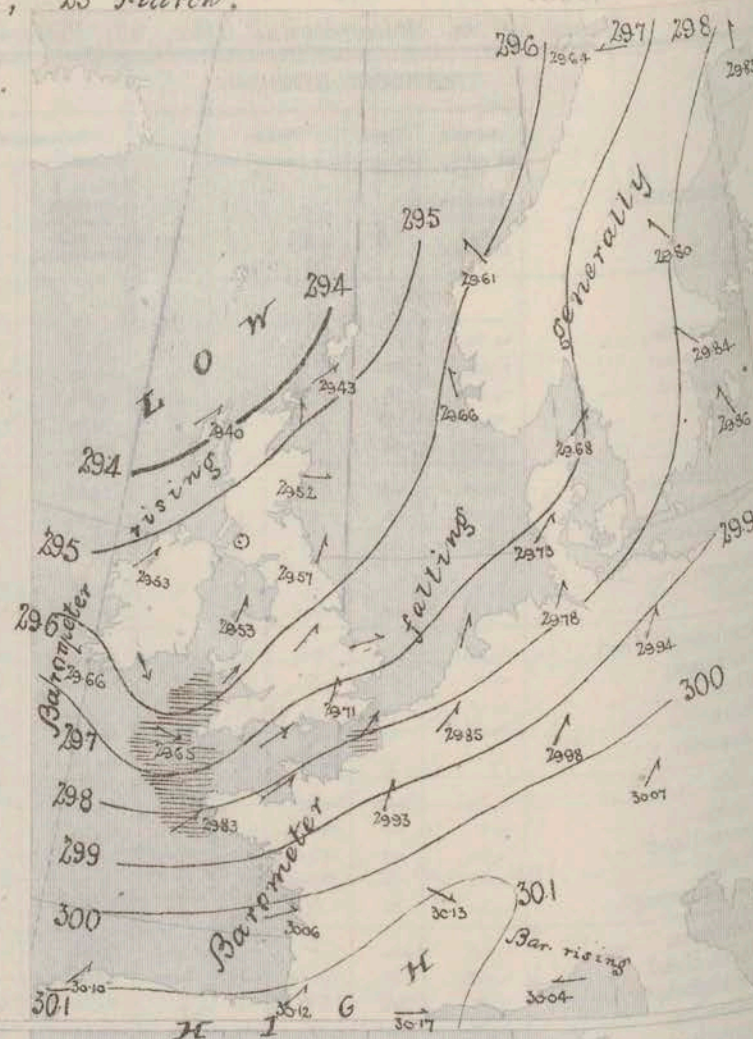
— = Rough — = High.

### MEAN HEIGHT OF THE BAROMETER

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

During the 15 Years: 1871—1885.

STATIONS.	MEAN READINGS.
Samburgh Head	29.751
Stornoway	29.779
Wick	29.797
Nairn	29.815
Aberdeen	29.830
Leith	29.862
Shields	29.890
York	29.925
Loughborough	29.945
Ardrossan	29.876
Donaghadee	29.892
Holyhead	29.910
Liverpool	29.925
Parsonstown	29.940
Valencia	29.958
Roshe's Point	29.941
Pembroke	29.944
Seilly	29.966
Jersey	29.971
Hurst Castle	29.966
Dover	29.955
LONDON	29.967
Oxford	29.966
Cambridge	29.967
Yarmouth	29.938



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

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

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

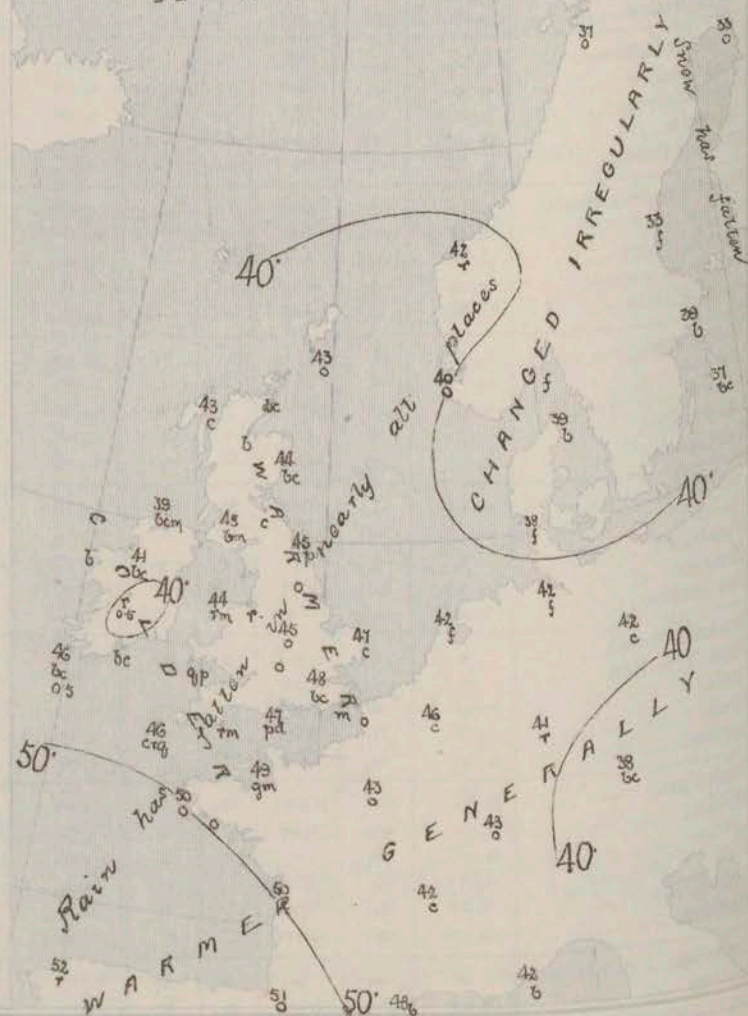
**RAINFALL**—A dotted line separates the districts in which rain has fallen from those where there has been none. Falls of 0.5 in. or more, are quoted in figures.

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

(For the month of March.)

STATIONS.	TEMPERATURE.				RAINFALL (Inches.)
	Daily Max.	Daily Min.	Mean Dry.	Mean Wet.	
Samburgh Head	42.6	34.0	38.5	37.1	2.92
Stornoway	44.9	34.4	39.9	38.0	3.87
Wick	44.7	33.9	39.1	37.2	1.97
Nairn	45.6	34.2	39.9	36.3	1.72
Aberdeen	45.4	31.7	38.9	36.8	2.24
Leith	48.2	34.6	39.7	37.9	1.36
Shields	45.0	35.4	39.6	38.0	1.60
York	48.0	34.7	38.0	37.1	1.68
Loughborough	49.3	34.3	39.5	37.7	1.47
Ardrossan	46.8	30.0	38.0	38.7	2.60
Donaghadee	47.3	37.1	41.9	39.7	1.90
Holyhead	47.6	39.2	42.5	41.0	2.21
Liverpool	47.3	37.1	40.8	38.7	1.80
Parsonstown	50.1	35.5	41.2	39.5	2.50
Valencia	51.6	40.6	45.4	43.4	1.24
Roshe's Point	50.2	40.0	45.8	42.1	3.71
Pembroke	47.7	39.5	42.0	40.8	2.45
Seilly	49.0	40.0	44.5	44.7	2.69
Jersey	49.0	40.5	44.7	42.7	2.92
Hurst Castle	48.3	37.7	41.0	40.1	1.80
Dover	45.0	37.2	41.0	39.9	1.88
LONDON	50.6	33.8	40.0	38.7	1.43
Oxford	49.0	35.2	39.4	37.9	1.53
Cambridge	50.6	38.0	40.2	37.7	1.32
Yarmouth	40.7	33.8	38.8	38.1	1.27

**NOTE**—The Temperature means are for the 15 years 1871-85, the Rainfall means are means for the 20 years 1870-89.





# GENERAL SITUATION AT 8 A.M.

## PRESSURE

Highest, 30.2 ins. and upwards, over the central and southern parts of the Iberian Peninsula.  
 Lowest, 29.4 ins. and less, in a shallow depression lying to the northward and northward of Scotland. An oblique secondary disturbance is lying over the English Channel.  
 Gradient moderate or slight generally.  
 Barometer rising in Ireland and Scotland and also over Germany and the east and south of France, but falling elsewhere.

## TEMPERATURE

Highest, 51° at Bordeaux, 51° at Biarritz and Fieson, 50° at Brest and Rochefort, and 49° at Jersey and Lorient.  
 Lowest, 33° at Wapamanda and Hemsland, 37° at Ross, Nelly, Tander and Parnestown, and 38° at Tinn.  
 The maximum registered over Ireland and England yesterday varied in most cases between 50° and 55°.

## WIND

Fresh or strong from the NW<sup>W</sup> on our extreme southwest coast.  
 Light or moderate from the SW<sup>W</sup> in most other parts of our islands, and also in France, Germany, the Netherlands and Denmark.  
 Light from the SE<sup>W</sup> in Scandinavia, variable in the south of Scotland.

## WEATHER

Fine in Scotland and the north of Ireland as well as in the extreme south of France.  
 Cloudy elsewhere, with fog in Denmark, and rain in Wales and the southwest of England.  
 Since yesterday morning rain has fallen in most parts of Western Europe, the largest amount being 0.5 in at Parnestown and Valencia.

## SEA

Rather rough at the mouths of the Bristol and English Channels, and also at C. de W., but moderate to smooth elsewhere.

## PROBABLE CHANGES IN SYSTEM NOW PREVALENT

# FORECASTS

For the 24 hours ending at NOON on 24<sup>th</sup> March 1890.

## DISTRICTS.

## FORECASTS.

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

NONE ISSUED

## DISTRICTS.

## FORECASTS

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

NONE ISSUED.

## WARNINGS

NONE ISSUED.

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



# YESTERDAY'S 2 P.M. REPORTS.

THER: WIND								THER: WIND									
BAR:	D.	W.	D.	F.	WEA.	SEA		BAR:	D.	W.	D.	F.	WEA.	SEA			
Skudesnaes ...	29.66	46	42	WSW	1	o	2	Holyhead ...	29.65	46	45	SSW	5	rmg	4	4	
Sumburgh Head ...	29.54	42	41	SE	2	r	5	Valencia ...	29.67	54	49	WSW	5	bcn	5	5	
Stornoway ...	29.40	46	46	SW	5	r	5	Scilly ...	29.76	49	49	SSW	5	rm	3	3	
Aberdeen ...	29.58	46	44	SSE	3	c	5	Jersey ...	29.90	50	47	W	4	bc	4	4	
Shields ...	29.62	49	44	WSW	2	c	2	Dungeness ...	29.78	48	46	W	6	c	3	3	
Ardrossan ...	29.55	44	43	S	3	o	2	London ...	29.77	53	49	W	2	c	2	2	
Mulin Head ...	29.48	48	48	SSW	4	o	3	Yarmouth ...	29.70	51	46	W	3	bc	2	2	
Mullaghmore ...	29.51	49	47	WSW	4	ch	3	Rochefort ...	30.05	53	50	WNW	4	b.			
Belmullet ...	29.92	50	48	WSW	5	c	*										

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

Weather fair in most parts of Great Britain, as well as over France, Germany, the Baltic, Central Russia and the southern parts of France and Spain. Dull elsewhere, with rain in Ireland, the extreme north of Scotland, and the south of Scandinavia, and snow over the Gulf of Finland. Fog reported in some parts of Central Europe. Showers falling during day over nearly the whole of Western Europe, and heavy rain (2.5 ins.) at Florence.

Temperatures highest, 50° and upwards, at most of the Mediterranean stations, as well as in the western parts of the Iberian Peninsula and the extreme southwest of Ireland (Brindisi and Genoa 57°, Oporto 56°, and Barcelona and La Coruña 54°). Lowest 31° at Moscow, 33° at Archangel, Laponland, Uleaborg, Krasnoyarsk, and Helsinki, and 34° at Khabarovsk, Harbin and Peking; below 40° in most parts of northern and central Europe. Daily maxima varying between 50° and 55° over the greater part of our Islands and France; thermometer exceeding 60° in Algeria and the south of Italy.

Wind strong from the S. or S.W. in the extreme west and northwest of our Islands, light from the W. over England, from the S.W. over the Netherlands and Central Europe, from the S.E. over Russia, and the Baltic, and from the E. in Scandinavia. Light or moderate from the W. over Spain and Algeria variable in Italy. Subsequently rising to the W. in Ireland.

Barometer highest, 30.2 ins. and upwards, in Portugal; high 30.0 ins. and upwards, in the north of Sweden. Lowest 29.5 ins. and less, in a large depression lying to the northward of our Islands, 29.6 ins. and less, in a trough stretching southwards across the North Sea. Depression in northwest subsequently moving northwards, and barometer rising on our extreme western coasts.

### EXPLANATION OF COLUMNS GIVEN ON PAGE 1.

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

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

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

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



# DAILY WEATHER REPORT.

for *Monday, 24<sup>th</sup> March,* 1890.  
*Issued by the Meteorological Office, 63, Victoria Street, London. R. H. SCOTT, Secretary.*

Issued by the Meteorological Office, 63, Victoria Street, London. R. H. SCOTT, Secretary.																		
STATIONS.	YESTERDAY EVENING.					8 A.M. TO DAY.										PAST 24 HOURS.		
	BAROM.	TEMP.	WIND.		Weather.	BAROMETER.		SHADE TEMP.			WIND.		Weather.	Sea. (0 to 5.)	SHADE TEMP.		Amount of Rainfall.	
	Reading at 32° F. and Sea Level.	Dry.	Dir.	Force. (0 to 12.)		Reading at 32° F. and Sea Level.	Difference from 8 a.m. yesterday.	Dry.	Wet.	Difference from 8 a.m. yesterday.	Dir.	Force. (0 to 12.)			Max.	Min.		
SCANDINAVIA.																		
Haparanda ...	29.85	33	SSW	2	0	29.77	-0.06	34	33	+1	Z	0	0	*	36	28	0.04	
Hernösand ...	29.76	34	Z	0	1	29.68	-0.12	34	33	+1	S	2	1	*	39	32	0.08	
Stockholm ...	29.77	38	S	2	0	29.74	-0.10	39	38	0	Z	0	0	*	48	36	0.04	
Wisby ...	29.82	39	SSW	4	0	29.76	-0.10	39	38	+2	S	4	0	*	50	30	-	
Bodo ...	29.64	37	Z	0	0	29.57	-0.07	35	34	-2	E	2	m	1	39	32	0.04	
SCANDINAVIA.																		
Christiansund ...	29.64	44	SE	1	C	29.63	+0.02	41	39	-1	ESE	1	C	3	45	39	0.04	
Skudesnaes ...	29.63	40	S	2	T	29.55	-0.11	43	41	+3	E	4	T	3	?	39	0.16	
Christiania Fjord (Fæder)	29.72	38	S	2	1	29.67	-0.02	37	37	0	T	2	1	?	57	-	-	
Skagen (The Seaw)	29.70	39	ESE	1	0	29.59	-0.09	39	39	0	S	1	1	1	41	39	0.08	
Fanø ...	29.65	40	SW	2	1	29.53	-0.20	42	42	+4	SSE	2	1	*	?	?	0.12	
BRITISH ISLANDS.																		
Sumburgh Head	29.51	45	SW	1	b	29.51	+0.08	41	40	-2	E	2	bc	2	48	35	-	
Stornoway ...	29.47	46	SW	4	bc	29.31	-0.09	44	43	+1	SE	5	b	5	50	40	-	
Wick ...	29.52	44	S	1	b	29.45	-0.05	43	41	0	S	3	bc	2	51	39	-	
Nairn ...	29.51	50	Z	0	b	29.41	-0.07	37	35	-2	E	1	b	1	54	28	-	
Aberdeen ...	29.57	42	ESE	1	b	29.47	-0.05	40	38	-4	SE	2	0	3	50	31	-	
BRITISH ISLANDS.																		
Leith ...	29.55	45	Z	0	bc	29.43	-0.11	36	36	-7	Z	0	b	*	51	31	-	
Shields ...	29.55	44	N	1	T	29.46	-0.11	42	42	-3	S	1	0	2	48	41	0.16	
Spurn Head ...	29.47	44	ESE	3	T	29.32	-0.05	43	43	-2	SSE	2	om	1	47	42	0.20	
York ...	29.50	46	E	1	T	29.49	-0.11	42	41	-4	S	1	bc	*	48	41	0.26	
Loughborough	29.53	44	WSW	2	T	29.54	-0.10	39	38	-6	SSE	2	om	*	49	35	0.26	
BRITISH ISLANDS.																		
Ardrossan ...	29.57	47	W	1	C	29.35	-0.19	42	41	-1	ENE	3	0	2	50	36	-	
Malin Head ...	29.55	47	S	1	C	29.10	-0.41	42	41	+3	SSE	6	0	4	50	38	-	
Mullaghmore ...	29.56	47	SW	4	cp	29.01	-0.52	44	42	+3	ESE	8	rg	6	50	40	0.11	
Belmullet ...	29.52	46	SSW	4	b	28.93	-0.62	45	44	+1	SSE	3	0	*	49	42	0.20	
Donaghadee ...	29.60	46	NE	2	b	29.30	-0.25	44	42	+3	SSW	6	0	4	52	38	-	
BRITISH ISLANDS.																		
Liverpool (Bidston)	29.57	43	WNW	4	0	29.43	-0.14	39	38	-5	SE	3	0	3	47	36	0.21	
Holyhead ...	29.61	45	WNW	3	C	29.34	-0.19	44	41	0	SSE	5	agg	4	47	40	0.04	
Parsonstown ...	29.62	48	Z	0	b	29.04	-0.54	46	45	+9	SE	2	0	*	52	36	0.05	
Valencia ...	29.60	48	S	5	0	28.95	-0.71	49	46	+3	SSW	6	bc	6	52	45	0.49	
Roche's Point...	29.66	49	WSW	4	b	29.03	-0.51	48	47	+7	SSW	5	T	5	52	41	0.48	
BRITISH ISLANDS.																		
Pembroke (St. Ann's Hd.)	29.70	46	W	4	b	29.23	-0.31	44	44	-1	SE	7	rg	6	46	40	0.12	
Scilly ...	29.67	48	W	5	bc	29.14	-0.51	48	48	+2	SSE	7	T	6	49	43	0.30	
Prawle Point ...	29.77	45	WNW	5	bc	29.39	-0.28	45	45	0	SSE	6	rg	6	49	43	0.12	
Jersey (St. Aubin's)	29.67	49	W	4	b	29.57	-0.24	46	45	-3	SSE	5	omtu	4	51	43	0.07	
Hurst Castle ...	29.76	46	W	6	C	29.55	-0.18	45	44	-2	SSW	5	T	4	49	43	0.08	
BRITISH ISLANDS.																		
Dungeness ...	29.61	46	WSW	6	b	29.63	-0.10	44	43	-1	WSW	5	C	3	47	40	0.04	
London ...	29.69	45	SW	4	cp	29.59	-0.12	43	41	-5	SSE	2	0	*	51	36	0.10	
Oxford ...	29.63	43	WSW	4	T	29.54	-0.14	40	39	-4	SSE	2	C	*	49	36	0.13	
Cambridge ...	29.63	48	SW	1	0	29.56	-0.12	41	40	-5	S	1	0	*	52	35	0.11	
Yarmouth ...	29.55	46	SW	3	C	29.55	-0.11	42	41	-5	W	2	cm	2	52	39	0.06	
GERMANY & HOLLAND.																		
Cuxhaven ...	29.71	43	S	3	T	29.59	-0.19	42	41	0	SSW	3	bc	*	47	41	0.10	
Berlin ...	29.87	48	SSW	2	0	29.71	-0.23	45	43	+3	S	2	C	*	56	?	-	
Wiesbaden ...	*	*	*	*	*	29.80	-0.18	43	41	+2	WSW	2	0	*	50	41	0.04	
Munich ...	29.99	40	SW	3	b	29.89	-0.18	43	39	+5	SSW	3	0	*	52	34	-	
The Helder ...	29.63	44	SSW	3	T	29.55	-0.19	42	41	0	SSW	2	C	3	45	41	0.08	
FRANCE AND BELGIUM.																		
Brussels (9 a.m.)	*	*	*	*	*	29.70	?	43	42	-3	SW	3	b	*	51	42	0.08	
Cape Gris Nez	?	45	WSW	6	b	?	?	43	43	-1	WSW	3	bc	2	48	41	0.04	
Paris ...	29.81	52	SW	3	0	29.81	-0.12	39	38	-4	SSW	2	bc	*	54	36	0.04	
Brest ...	29.89	51	W	2	b	29.46	-0.37	50	48	0	S	6	T	?	55	45	0.04	
Lorient ...	29.87	49	W	4	b	29.58	-0.26	49	48	0	S	5	T	5	52	43	-	
FRANCE AND BELGIUM.																		
Rochefort ...	30.03	51	WSW	5	0	29.88	-0.18	49	49	-1	SW	4	0	?	59	43	0.04	
Belfort ...	29.93	46	W	1	C	29.85	-0.11	44	35	+1	W	1	T	*	53	41	0.49	
Lyons ...	30.00	52	SSE	2	0	29.94	-0.06	46	44	-2	S	2	T	*	60	46	0.08	
Nice ...	30.05	48	W	2	bc	29.98	-0.06	46	43	+4	ENE	2	bc	0	57	?	-	
Perpignan ...	30.07	54	SE	2	b	29.95	-0.22	50	47	+2	W	2	C	*	64	44	-	
Biarritz ...	30.03	55	N	3	0	29.88	-0.24	50	48	-1	SSE	3	0	5	63	48	0.04	
SPAIN.																		
Corunna ...	*	*	*	*	*													
Lisbon ...	*	*	*	*	*													

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

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



# WEATHER CHARTS

for 8 a.m. on

Monday, 24<sup>th</sup> March.

1890.

## 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:

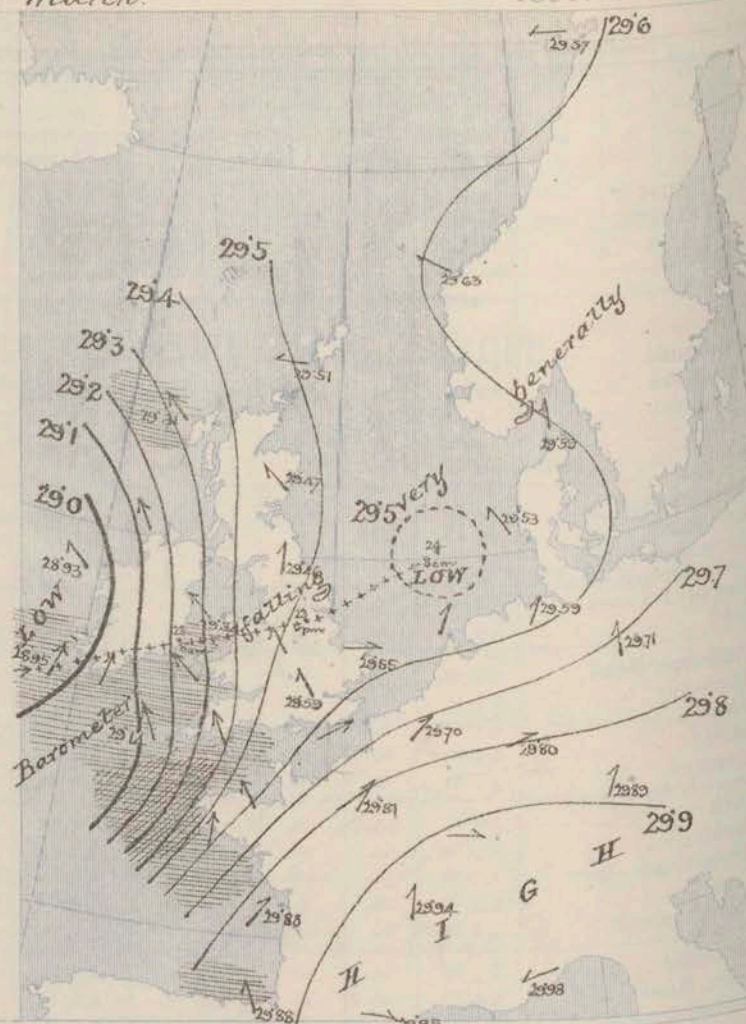
⊖ = Rough. ⊕ = High.

## MEAN HEIGHT OF THE BAROMETER

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

During the 15 Years: 1871—1885.

STATIONS.	MEAN READINGS.
Sumburgh Head	29.751
Stornoway	29.779
Wick	29.797
Nairn	29.815
Aberdeen	29.830
Leith	29.862
Shields	29.896
York	29.925
Loughborough	29.948
Ardrrossan	29.876
Donaghadee	29.892
Holyhead	29.919
Liverpool	29.925
Parsonstown	29.910
Valencia	29.938
Roche's Point	29.941
Pembroke	29.944
Scilly	29.966
Jersey	29.971
Hurst Castle	29.966
Dover	29.955
LONDON	29.967
Oxford	29.966
Cambridge	29.957
Yarmouth	29.938



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

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

**WEATHER**—Is shown by Letters of the Baromet Scale.

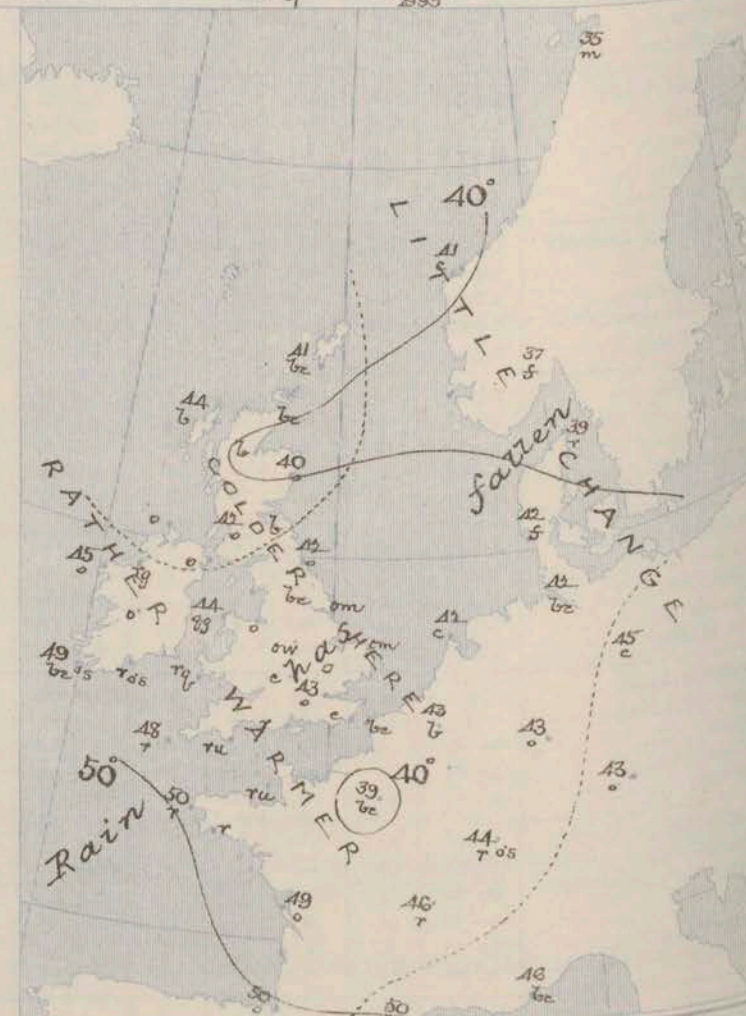
**RAINFALL**—A dotted line separates the districts in which rain has fallen from those where there has been none. Falls of 0.5 in. or more, are quoted in figures.

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

(For the month of March.)

STATIONS.	TEMPERATURE.				RAINFALL (Inches.)
	Daily Max.	Daily Min.	at 8 a.m. Dry.	Wet.	
Sumburgh Head	42.6	31.0	38.5	37.1	2.92
Stornoway	41.9	34.4	39.2	38.0	3.87
Wick	44.7	33.9	39.1	37.2	1.97
Nairn	45.6	34.2	38.2	36.3	1.72
Aberdeen	45.4	34.7	38.9	36.8	2.24
Leith	48.2	34.6	39.7	37.9	1.36
Shields	45.9	35.1	39.6	38.0	1.69
York	48.9	33.7	38.6	37.1	1.63
Loughborough	49.8	34.3	39.5	37.7	1.47
Ardrrossan	46.8	35.6	40.5	38.7	2.59
Donaghadee	47.3	37.1	41.0	39.7	1.99
Holyhead	47.6	39.2	42.5	41.6	2.21
Liverpool	47.3	37.1	40.8	38.7	1.69
Parsonstown	50.1	35.5	41.2	39.6	2.35
Valencia	51.6	40.6	43.4	43.4	4.24
Roche's Point	50.2	40.6	43.8	42.1	3.71
Pembroke	47.1	39.5	42.6	40.8	2.45
Scilly	49.9	43.0	46.5	44.7	2.38
Jersey	49.9	40.5	44.7	42.7	2.32
Hurst Castle	48.3	37.7	41.6	40.7	1.80
Dover	45.9	37.8	41.6	39.9	1.86
LONDON	50.6	35.8	40.6	38.7	1.43
Oxford	49.3	35.2	39.4	37.9	1.52
Cambridge	50.6	34.3	39.2	37.7	1.33
Yarmouth	45.7	35.8	40.8	39.1	1.77

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





# GENERAL SITUATION AT 8 A.M.

## PRESSURE

Highest, 29.8 in: to nearly 30.0 in: over the Central and Southern parts of France, 29.6 in: and more over Scandinavia.  
 Lowest, 29.0 in: and less, over the west of Ireland, 29.2 in: and less, off the mouth of the Channel, 29.5 in: and less over the North Sea.  
 Gradient are steep over the eastern and south-western parts of our Islands and Brittany.  
 Barometer falling generally, most in the west and south-west of England towards which regions a new depression is advancing.

## TEMPERATURE

Highest, 50° at West, Biarritz, and Perpignan, 48° at Rochefort and Valence, 44° at Stornoway and Holyhead, 46° in London.  
 Lowest, 35° at Brest, 37° at Jaster and Narvik, 35° at the Sars, Loughborough and Paris, 40° at Aberdeen.  
 It has been as low as 31° in the shade over the north-west of Scotland, and 38° to 36° over Central England during the night. In London a sharp frost occurred on the ground early this morning.

## WIND

S<sup>4</sup> (SE to SSW) over the British Islands generally — light to moderate in the north-east and east, fresh to strong in the south, strong to gale in the west. The gale was severe, from the S.W. in the extreme west between midnight and 5 am.  
 At the Continental stations the wind was moderate — S.W. over France, S.E. in Norway.

## WEATHER

Very changeable and unsettled, — squally and rainy in many places (mainly in the east and south-west) fine in the extreme north-east. In London the sky after being clear, has become covered with a film of Cirrus haze, increasing quickly in density, and a well marked halo was visible. Rainfall during past 24 hours has not been heavy, though general except in the north.

## SEA

Very rough at the southernmost stations, rather so at Stornoway, moderate or slight elsewhere.

## PROBABLE CHANGES IN SYSTEM NOW PREVALENT

The new depression seems likely to cause gales and rain at all our south-western, southern, and south-eastern stations, while that in the north-west may cause S<sup>4</sup> gales in the west to spread to our north-west coasts also.

## FORECASTS

For the 24 hours ending at NOON on 25<sup>th</sup> March 1890.

### DISTRICTS.

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

### FORECASTS.

S<sup>4</sup> winds, strong; squally, rainy, a gale in some localities.  
 S<sup>4</sup> and S.W.<sup>4</sup> winds, freshening; changeable, showery, unsettled.  
 S<sup>4</sup> and S.W.<sup>4</sup> winds, strong to a gale; rainy, very unsettled, finer later.

### DISTRICTS.

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

### FORECASTS

S<sup>4</sup> and S.W.<sup>4</sup> gales and strong winds; rainy, squally, unsettled.  
 S.W.<sup>4</sup> and S<sup>4</sup> winds, very changeable and unsettled, rain at times, bright intervals.

### WARNINGS

The SOUTH CONE was hoisted last evening in districts 5, 8, and 10, and this morning in districts 6, 7, 9 and part of 0.

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



# YESTERDAY'S 2 P.M. REPORTS.

	BAR:	THER:		WIND		WEA	SEA		BAR:	THER:		WIND		WEA	SEA
		D.	W.	D.	F.					D.	W.	D.	F.		
Skudesnaes ...	27.66	41	40	SSE	4	0	3		Holyhead ...	29.54	43	42	rrw	5	
Sumburgh Head ...									Valencia ...						
Stornoway ...	29.45	48	47	SE	4	C	4		Scilly ...						3
Aberdeen ...									Jersey ...	29.81	51	48	WSW	4	6C
Shields ...									Dungeness ...	29.63	46	45	WSW	5	4
Ardrossan ...									London ...						*
Malin Head ...	29.55	49	46	W	4	6	4		Yarmouth ...						
Mullaghmore ...									Rochefort ...	30.04	53	52	WSW	5	0
Belmullet ...	29.58	47	47	WSW	4	6	*								

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

*Weather* rainy in Wales and the southwest of England, as well as at Christiansands, St. Petersburg, Le Mans and Aarhuus; foggy over Finland, Denmark and the southern shores of the Baltic. Fine in most other localities, but a good deal of cloud reported over the eastern parts of England and the North of Italy. Squally, showery weather prevailing over England during day, and conditions becoming dull and unsettled in the West of Ireland towards night.

*Temperature* highest 50° and upwards over the central and northern parts of the Mediterranean, as well as over the Bay of Biscay and on the coasts of the Iberian Peninsula (Bilbao 59°, Brindisi 59° and Malta 56°). Lowest 32° at Archangel and Hango, 33° at Haparanda, Hernösand and Uleaborg and 34° at Moscow and Kharkov; below 40° in most parts of northern and eastern Europe, as well as over the central parts of Scotland, Ireland and Spain. Daily maxima very little above 50° in any part of our Islands, but thermometer exceeding 60° in the south of France.

*Wind* fresh or strong from the NW<sup>nd</sup> in the extreme southwest of our Islands, light or moderate from the SW<sup>nd</sup> over the greater part of England, France, the Netherlands, Germany and Denmark. Light from the S<sup>nd</sup> or SE<sup>nd</sup> over Scandinavia and Russia; variable over the Mediterranean, Italy and the south of Spain. Subsequently backing to the SW<sup>nd</sup> in the extreme west of our Islands, and increasing to a gale on some parts of the Irish coasts.

*Barometer* highest 30.3 ins. and upwards in a large anticyclone lying over central Russia, and also in a smaller system lying over central Spain. Lowest 29.4 ins. and less in a large area lying to the north and northwest of Scotland. Shallow secondary depressions lying over the St. Georges Channel. Latter system subsequently moving eastwards across England; new and larger disturbances appearing off our extreme west coasts in evening.

## SUMMARY OF CHANGES IN THE WEATHER OVER THE BRITISH ISLANDS AND THEIR NEIGHBOURHOOD FROM THE 16<sup>TH</sup> TO THE 22<sup>ND</sup> MARCH 1890.

The weather of the past week has been very changeable and unsettled, with frequent falls of rain in all parts of the Kingdom, and occasional sleet or snow at some of the English and French stations.

At the beginning of the period, when pressure was highest over Scandinavia, a large V-shaped depression travelled north-eastward across our Islands, occasioning strong winds from the S<sup>nd</sup> or SE<sup>nd</sup> in many places, and heavy falls of rain at some of our western and northern stations. On Monday the 17<sup>th</sup>, however, the depression passed away in a northerly direction, and a temporary improvement in the weather took place generally.

A second area of high pressure now appeared over, and to the southwest of the Iberian Peninsula, and during the remainder of the week the distribution was very complex. Several shallow depressions appeared over in the immediate neighbourhood of our Islands.

The first advanced to the southwest of Ireland on Monday night, and subsequently travelled south-eastwards to the Bay of Biscay, where it quickly broke up. The SE<sup>2d</sup> winds which prevailed over our Islands at this time showed no material increase of force, but a good deal of snow and rain fell at Valencia, the amount recorded during the 48 hours ending 8 am on the 19<sup>th</sup> being as much as 1.5 inches.

The second disturbance appeared over Germany on the morning of the 19<sup>th</sup> and afterwards travelled in a north-westerly direction across the eastern and northern parts of the United Kingdom. Its wind freshened considerably from the N. on the E coast, with heavy rain in many places, and a little snow in London.

The third a very shallow system advanced to the west of Ireland on the afternoon of the 20<sup>th</sup>, and afterwards moved E<sup>ast</sup> to the Bristol Channel, where it apparently broke up. A new depression (also shallow) was at the same time formed over Germany, but this did not advance towards our coast. As these low depressions dispersed the barometer rose generally and the high pressure area over the Iberian Peninsula spread slowly N<sup>orth</sup>.

The fourth a somewhat large disturbance moved along our extreme W coasts on the 22<sup>nd</sup>, and occasioned rain in Ireland and Scotland, but no material increase of wind.

Temperature has not differed greatly from the normal. The daily maxima reached 60° or a little above at some of the English stations on the 16<sup>th</sup>, but later on temperature fell and slight frost occurred in many parts of the inland districts.

### EXPLANATION OF COLUMNS GIVEN ON PAGE 1.

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

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

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

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



# DAILY WEATHER REPORT.

for Tuesday 25th March 1890.

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

Issued by the Meteorological Office, 63, Victoria Street, London. R. H. SCOTT, Secretary.																		
STATIONS.	YESTERDAY EVENING.					8 A.M. TO DAY.										PAST 24 HOURS.		
	BAROM.	TEMP.	WIND.		Weather.	BAROMETER.		SHADE TEMP.			WIND.		Sea. (0 to 9.)	SHADE TEMP.		Amount of Rainfall.		
	Reading at 32° F. and Sea Level.	Dry.	Dir.	Force. (0 to 12.)		Reading at 32° F. and Sea Level.	Difference from 8 a.m. yesterday.	Dry.	Wet.	Difference from 8 a.m. yesterday.	Dir.	Force. (0 to 12.)		Max.	Min.			
SCANDINAVIA.																		
Haparanda ...	29.80	33	S	0	C	29.88	+11	31	31	-3	NE	4	S	*	39	30	—	
Hernösand ...	29.76	34	S	0	C	29.82	+14	33	33	-1	SE	2	f	*	37	?	—	
Stockholm ...	29.73	46	SE	2	bc	29.65	-09	36	36	-3	ENE	2	T	*	55	36	0.04	
Wisby ...	29.87	40	SEW	4	0	29.65	-11	41	41	+2	WPN	2	C	*	54	34	0.04	
Bodö ...	29.61	40	E	2	T	29.73	+16	40	37	+5	E	2	C	1	?	?	0.24	
CHRISTIANIA.																		
Christiansund ...	29.56	41	ENE	2	f	29.54	-09	38	35	-3	SE	1	m	2	46	36	—	
Skudenes ...	29.51	43	E	1	0	29.49	-06	46	41	+3	E	4	0	3	?	41	—	
Christiania Fjord (Pierder) ...	29.59	39	N	4	T	29.58	-09	39	38	+2	NNE	3	m	2	39	37	0.20	
Skagen (The Seaw) ...	29.52	41	SE	1	0	29.53	-06	39	38	0	S	1	f	1	41	37	0.08	
Faño ...	29.49	41	SEW	2	m	29.41	-12	40	40	-2	ESE	4	bc	*	45	39	—	
SCOTLAND.																		
Sumburgh Head ...	29.40	43	ESE	3	T	29.43	-08	43	41	+2	ESE	2	C	4	44	39	0.02	
Stornoway ...	29.17	44	SE	6	C	29.29	-02	44	43	0	SE	5	C	5	48	40	—	
Wick ...	29.31	42	S	3	0	29.37	-08	43	40	0	ESE	3	0	2	46	40	—	
Nairn ...	29.23	43	ESE	2	C	29.30	-11	42	41	+5	ESE	2	0	1	48	36	0.01	
Aberdeen ...	29.30	42	SE	4	ogv	29.31	-16	42	41	+2	E	6	ogv f	5	45	40	0.01	
ENGLAND.																		
Leith ...	29.30	46	ESE	3	0	29.19	-24	42	42	+6	E	3	0	*	51	36	0.03	
Shields ...	29.24	44	SE	4	f	29.14	-32	44	43	+2	S	1	0	2	48	40	0.40	
Spurn Head ...	29.20	43	ESE	6	T	29.18	-36	41	40	-2	SW	3	om	3	47	39	0.14	
York ...	29.22	45	SE	2	T	29.17	-32	42	42	0	SE	1	bc	*	49	40	0.27	
Loughborough ...	29.13	44	SE	4	T	29.19	-35	43	42	+4	SW	2	cw	*	47	39	0.16	
IRISH ISLANDS.																		
Ardrossan ...	29.10	45	NE	1	T	29.17	-18	44	43	+2	NNE	2	0	1	45	41	0.05	
Malin Head ...	29.98	42	SE	6	OT	29.20	+10	43	42	+1	NE	4	ogv	2	43	41	0.17	
Mullaghmore ...	29.92	47	ESE	5	0	29.23	+22	45	43	+1	NW	4	ogv	3	49	41	0.45	
Belmullet ...	29.94	49	W	3	C	29.29	+36	46	46	+1	NW	2	0	*	52	44	0.05	
Donaghadee ...	29.03	44	SE	5	Tg	29.14	-16	44	44	0	ENE	5	0	3	44	42	0.48	
BRITISH ISLANDS.																		
Liverpool (Bidston) ...	29.06	43	ESE	5	0	29.15	-28	43	42	+4	SE	1	0	2	45	39	0.07	
Holyhead ...	29.97	45	SE	5	og	29.11	-23	43	43	-1	WPN	4	omg	4	47	42	0.07	
Parsonstown ...	29.93	47	S	0	0	29.24	+20	44	43	-2	NW	1	0	*	50	43	0.34	
Valencia ...	29.06	49	W	4	bc	29.40	+45	49	45	0	WNW	4	bc	4	53	43	0.09	
Roche's Point ...	29.00	50	W	4	bc	29.35	+32	47	44	-1	WNW	5	f	4	52	41	0.05	
IRELAND.																		
Pembroke (St. Ann's Hd.) ...	29.03	46	SEW	4	bc	29.26	+03	46	45	+2	W	6	f	5	47	43	0.28	
Scilly ...	29.11	49	WPN	5	C	29.37	+23	48	47	0	NW	6	C	6	53	45	0.13	
Prawle Point ...	29.14	47	WPN	4	bc	29.35	-04	47	46	+2	WPN	5	bp	3	48	43	0.08	
Jersey (St. Aubin's) ...	29.23	48	S	4	cgmf	29.38	-19	48	47	+2	W	5	bc	4	49	44	0.53	
Hurst Castle ...	29.18	48	SW	4	0	29.32	-23	46	45	+1	W	4	bm	4	48	44	0.35	
WILTSHIRE.																		
Dungeness ...	29.27	45	S	5	T	29.27	-36	45	44	+1	WPN	4	C	4	47	44	0.30	
London ...	29.18	47	SE	5	OT	29.24	-38	46	44	+3	SW	2	0	*	49	42	0.27	
Oxford ...	29.15	44	SE	2	bc	29.25	-29	44	43	+4	SW	2	ou	*	47	39	0.14	
Cambridge ...	29.19	45	SE	3	T	29.24	-32	46	45	+5	SW	1	C	*	50	39	0.12	
Yarmouth ...	29.32	43	SE	6	Tou	29.22	-33	44	43	+2	SW	2	cm	4	47	41	0.32	
GERMANY & HOLLAND.																		
Cuxhaven ...	29.56	41	SW	3	0	29.43	-16	41	41	-1	SE	3	f	*	47	40	—	
Berlin ...	29.67	46	SW	3	C	29.55	-16	44	42	-1	SE	3	f	*	52	39	0.04	
Wiesbaden ...	*	*	*	*	*	29.41	-39	48	47	+5	S	1	T	*	54	45	0.16	
Munich ...	29.71	47	S	0	0	29.50	-39	44	41	+1	SE	2	bc	*	54	37	—	
The Helder ...	29.43	42	ESE	1	0	29.26	-29	43	42	+1	SEW	2	C	2	45	41	0.20	
FRANCE AND BELGIUM.																		
Brussels (9 a.m.) ...	*	*	*	*	*	29.34	-36	46	45	+3	S	3	0	*	51	?	0.20	
Cape Gris Nez ...	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
Paris ...	29.43	50	SE	2	T	29.38	-43	46	44	+7	SW	2	C	*	52	?	0.20	
Brest ...	29.25	50	W	6	T	29.45	-01	49	47	-1	NW	4	C	7	54	45	0.20	
Lorient ...	29.28	?	SW	?	?	29.44	-14	46	43	-3	WNW	4	bc	5	50	45	0.55	
SPAIN.																		
Rochefort ...	29.52	?	W	?	?	?	?	47	46	-2	WNW	4	C	?	54	39	0.39	
Belfort ...	29.61	51	W	1	0	29.43	-42	50	41	+6	NNW	1	T	*	55	43	0.28	
Lyons ...	29.63	54	S	4	0	29.42	-52	42	41	-4	W	3	T	*	59	42	0.51	
Nice ...	29.89	48	SW	4	T	29.64	-34	49	49	+3	NNE	6	T	6	57	43	1.69	
Perpignan ...	29.69	52	E	2	0	29.51	-44	48	45	-2	NW	2	T	*	60	47	0.04	
Biarritz ...	29.60	51	W	6	T	29.60	-28	50	46	0	WNW	6	T	5	64	46	0.59	
PORTUGAL.																		
Corunna ...	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
Lisbon ...	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*

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

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



# WEATHER CHARTS

for 8 a.m. on *Tuesday, 25<sup>th</sup> March* 1890.

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:

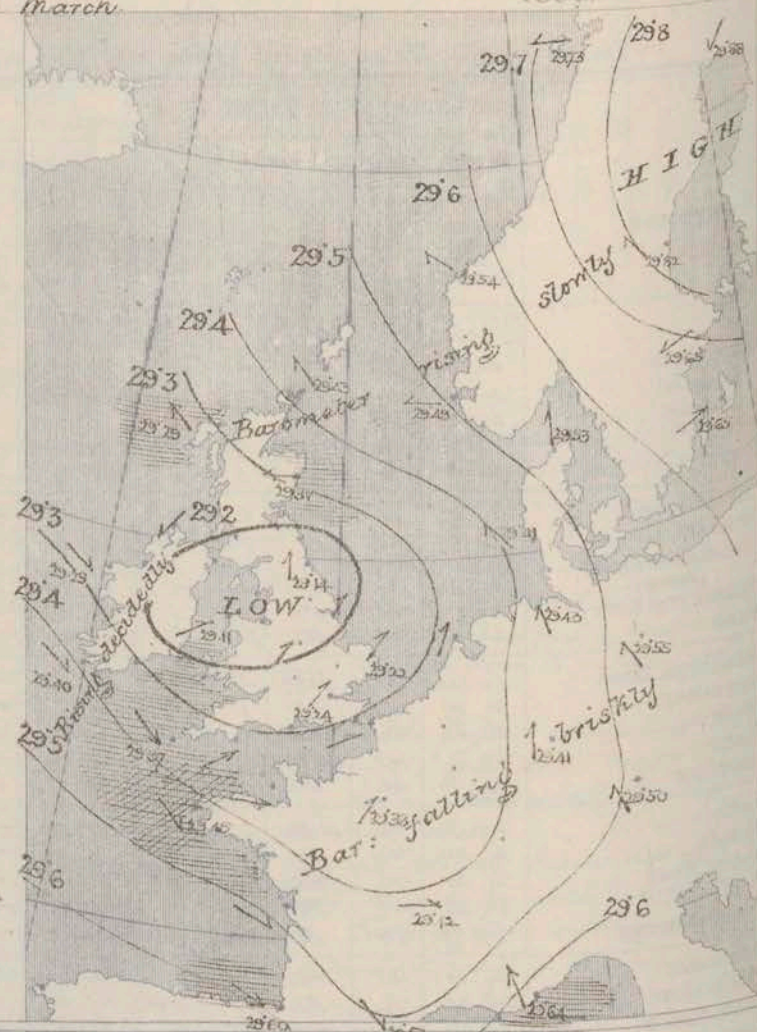
☰ = Rough ☱ = High.

## MEAN HEIGHT OF THE BAROMETER

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

During the 15 Years: 1871—1885.

STATIONS.	MEAN READINGS.
Sumburgh Head	29.751
Stornoway	29.779
Wick	29.797
Nairn	29.815
Aberdeen	29.830
Leith	29.862
Shields	29.896
York	29.925
Loughborough	29.948
Ardrossan	29.876
Donaghadee	29.892
Holyhead	29.919
Liverpool	29.925
Parsonstown	29.940
Valencia	29.938
Roche's Point	29.941
Pembroke	29.944
Sally	29.966
Jersey	29.971
Hurst Castle	29.966
Dover	29.955
LONDON	29.967
Oxford	29.966
Cambridge	29.957
Yarmouth	29.938



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

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

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

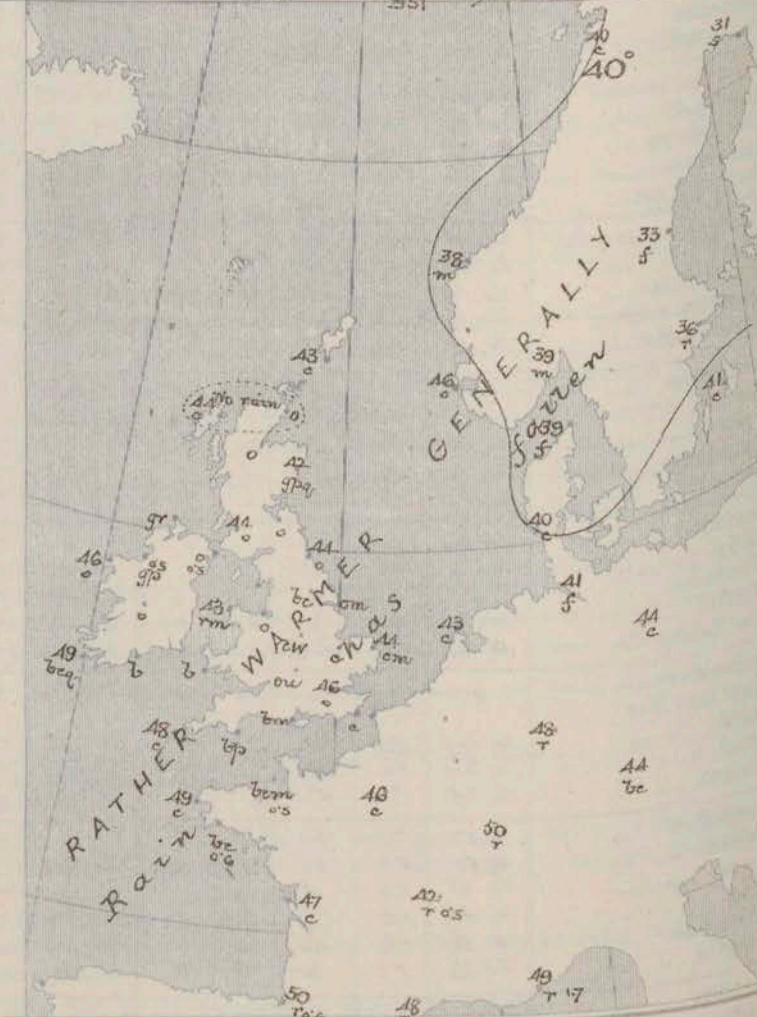
**RAINFALL**—A dotted line separates the districts in which rain has fallen from those where there has been none. Falls of 0.5 in. or more, are quoted in figures.

## MEANS OF TEMPERATURE IN SHADE, AND RAINFALL.

(For the month of March.)

STATIONS.	TEMPERATURE.				RAINFALL (Inches.)
	Daily Max.	Daily Min.	at 8 a.m. Dry.	Wet.	
Sumburgh Head	42.6	34.0	38.5	37.1	2.92
Stornoway	44.9	34.4	39.2	38.0	3.87
Wick	44.7	33.9	39.1	37.2	1.97
Nairn	45.6	34.2	38.2	36.3	1.72
Aberdeen	45.4	34.7	38.9	36.8	2.24
Leith	48.2	34.6	39.7	37.9	1.36
Shields	45.9	35.4	39.6	38.0	1.60
York	48.9	33.7	38.6	37.1	1.63
Loughborough	49.3	34.3	39.5	37.7	1.47
Ardrossan	46.8	30.6	40.5	38.7	2.59
Donaghadee	47.3	37.1	41.0	39.7	1.99
Holyhead	47.6	39.2	42.5	41.0	2.21
Liverpool	47.3	37.1	40.8	38.7	1.09
Parsonstown	50.1	35.5	41.2	39.6	2.55
Valencia	51.6	45.6	45.4	43.4	4.24
Roche's Point	50.2	40.0	43.8	42.1	3.71
Pembroke	47.1	39.5	42.6	40.8	2.45
Sally	49.9	43.0	46.5	44.7	2.38
Jersey	49.9	40.5	44.7	42.7	2.32
Hurst Castle	48.3	37.7	41.6	40.7	1.89
Dover	46.9	37.8	41.6	39.9	1.86
LONDON	50.6	35.5	40.6	38.7	1.43
Oxford	49.5	35.2	39.4	37.9	1.52
Cambridge	50.6	33.3	39.2	37.7	1.33
Yarmouth	45.7	35.8	40.8	39.1	1.77

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





# GENERAL SITUATION AT 8 A.M.

## PRESSURE

Highest, 29.5 ins. to 29.8 ins. over Scandinavia—apparently higher over Finland and the north of Russia; 29.4 ins. to 29.6 ins. over the Bay of Biscay.  
Lowest, 29.2 ins. and less, in a well marked depression over the north of England, and 29.4 ins. and less, over Central France.  
Gradient moderate to slight. Barometer rising decidedly in the west and south, slightly in the north.

## TEMPERATURE

Highest, 50° at Biarritz and Belfort, 49° at Nice, Brest, and Valence, 48° at Jersey and 46° in London.  
Lowest, 31° at Haparanda, 36° at Stockholm, 38° at Christiansund, 39° at the Cape, and 42° at Aberdeen.  
It has not varied much during the past 24 hours.

## WIND

NW<sup>ly</sup> in Ireland, at the mouth of the Channel, and over the Bay of Biscay—strong at Bally; W<sup>ly</sup> and SW<sup>ly</sup>, fresh to moderate in the Channel, SW<sup>ly</sup>, light on our east coast. E<sup>ly</sup> and NE<sup>ly</sup> in the north and north-west, strong at Aberdeen.  
The gales experienced yesterday have all died down.

## WEATHER

Cloudy and showery in most regions, but clear and bright on many parts of our southwestern coasts. Snow is falling at Haparanda. The rainfall yesterday was very general, heaviest falls were 1.7 ins. at Nice, 0.6 ins. at Lorient, 0.3 ins. and more at several of our western and southern stations, and 0.4 ins. at Shields.

## SEA

High at Brest, rough at the mouths of the English and Bristol Channels, moderate or slight elsewhere.

## PROBABLE CHANGES IN SYSTEM NOW PREVALENT

The depression over the north of England appears to be filling up gradually, and at present there is no indication of any new disturbance.

# FORECASTS

For the 24 hours ending at NOON on 26<sup>th</sup> MARCH 1890.

## DISTRICTS.

## FORECASTS.

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

E<sup>ly</sup> and SE<sup>ly</sup> winds, moderate; drizzle, rain at times.

Same as No. 4.

Same as No. 5.

SW<sup>ly</sup> breezes, light, some showers, with bright intervals.

SW<sup>ly</sup> and W<sup>ly</sup> breezes, moderate; cloudy, some rain occasionally, clearer at night.

## DISTRICTS.

## FORECASTS

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

NE<sup>ly</sup> and Variable breezes, light; changeable, some showers.

W<sup>ly</sup> and NW<sup>ly</sup> winds, fresh to moderate; some showers.

NW<sup>ly</sup> breezes, moderate; showery, bright intervals, colder.

## WARNINGS

Signals all lowered.

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



# YESTERDAY'S 2 P.M. REPORTS.

	THER: WIND								THER: WIND							
	BAR:	D.	W.	D.	F.	WEA.	SEA		BAR:	D.	W.	D.	F.	WEA.	SEA	
Skudesnaes ...	29.54	44	42	E	2	r	3	Holyhead ...	29.00	47	44	SE	5	o g p	4	5
Sumburgh Head ...	29.44	42	42	ESE	2	o	3	Valencia ...	29.99	50	49	W	4	r	5	5
Stornoway ...	29.22	40	46	SE	6	c	5	Scilly ...	29.11	53	51	SW	6	bc	5	5
Aberdeen ...	29.37	42	40	SE	3	c	3	Jersey ...	29.20	49	40	S	6	o	r	4
Shields ...	29.31	46	43	SE	2	o	2	Dungeness ...	29.43	45	44	S	5	o	r	4
Ardrossan ...	29.20	45	42	NE	3	o	2	London ...	29.36	47	46	SE	5	o	r	4
Malin Head ...	29.99	43	42	SE	0	o	4	Yarmouth ...	29.45	44	43	S	4	c	4	4
Mullaghmore ...	29.94	49	46	ESE	5	o g	5	Rochefort ...	29.65	53	52	SPW	4	r	4	4
Belmullet ...	29.92	52	45	SW	2	o	*									

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

Weather fair in the north and east of our Islands, as well as in many parts of Central and Southern Europe. Dull elsewhere, with rain in Ireland, France, and the southwest of England, and also at several of the Danish, Russian and Austrian stations. A good deal of fog reported over the Baltic and the Gulf of Finland. Rain extending later to the north and east of our Islands, but a considerable improvement in the weather taking place on our southwest coasts.

Temperature highest, 50° and upwards at most of the Mediterranean stations and also on the coasts of the Iberian Peninsula (Algiers 58°, Malta 57°, Corunna 56°, Barcelona, Lisbon, and Brindisi 55°). Lowest 31° at Hongö, 33° at Archangel, and Cracow, and 34° at Haparanda. Harisand, Memel and Kharkov; below 40° in nearly all parts of Russia and Northern Europe, as well as in some of the central parts of Scandinavia and France. Daily maxima below 50° in most parts of Great Britain, but a little above that point in Ireland.

Wind S or SE over our Islands; very strong in force on our west and southwest coasts, with a gale at Mullaghmore. Light or moderate from the S or SW over Spain, France, and the greater part of Central Europe; variable over the northern parts of Sweden and Russia. Light from the N or NW in Italy, and also at some of the African stations. Subsequently veering to the W over France and the southwest of our Islands and blowing strongly over the Bay of Biscay.

Barometer highest, 30.2 ins. and upwards, in a large anticyclone lying over Central Russia, 30.1 ins. and upwards, in another large area lying over Algeria, Spain, and the adjacent part of the Mediterranean. Lowest 29.0 ins. and less, in a depression having its centre off the west of Ireland, 29.1 ins. and less, in a secondary disturbance, which was approaching the southwest of England. Secondary disturbance subsequently moving northwards, and barometer falling briskly in all the more northern and eastern parts of the United Kingdom.

### EXPLANATION OF COLUMNS GIVEN ON PAGE 1.

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

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

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

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



# DAILY WEATHER REPORT.

for *Wednesday, 26<sup>th</sup> March,* 1890.  
*Issued by the Meteorological Office, 63, Victoria Street, London. R. H. SCOTT, Secretary.*

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STATIONS.	YESTERDAY EVENING.					8 A.M. TO DAY.										PAST 24 HOURS.		
	BAROM.	TEMP.	WIND.		Weather.	BAROMETER.		SHADE TEMP.			WIND.		Weather.	Sea. (0 to 4.)	SHADE TEMP.		Amount of Rainfall.	
	Reading at 32° F. and Sea Level.	Dry.	Dirac.	Force. (0 to 12.)		Reading at 32° F. and Sea Level.	Difference from 8 a.m. yesterday.	Dry.	Wet.	Difference from 8 a.m. yesterday.	Dirac.	Force. (0 to 12.)			Max.	Min.		
SCANDINAVIA.																		
Haparanda ...	29.00	23	NE	4	0	30.01	+ 13	22	21	- 9	E	2	0	*	34	21	0.04	
Hernösand ...	29.90	46	NE	4	0	29.88	+ 06	32	32	- 1	NNE	2	0	*	?	30	-	
Stockholm ...	29.74	39	SE	0	0	29.81	+ 16	34	33	- 2	SE	0	0	*	45	30	0.16	
Wishby ...	29.74	37	W	2	1	29.80	+ 15	35	35	- 6	ESE	2	0	*	48	34	-	
Bodö ...	29.77	40	ESE	2	0	29.72	- 01	37	32	- 3	ESE	4	0	2	43	34	-	
Christiansund ...	29.60	41	ESE	1	bc	29.51	- 03	43	39	+ 5	ESE	3	6	2	48	?	-	
Skudesnaes ...	29.56	44	ESE	2	0	29.47	- 02	43	40	- 3	SE	6	0	4	?	41	-	
Christiania Fjord (Færdar) ...	29.71	39	ESE	3	0	29.68	+ 10	36	35	- 3	ESE	5	1	2	39	36	-	
Skagen (The Scaw) ...	29.63	41	SE	2	0	29.61	+ 08	40	39	+ 1	S	2	1	2	43	37	0.28	
Fanö ...	29.52	41	SW	2	0	29.64	+ 23	42	41	+ 2	S	3	6	*	50	39	0.16	
Sumburgh Head ...	29.45	43	ESE	2	0	29.20	- 23	42	41	- 1	SSE	1	1	4	45	39	0.07	
Stornoway ...	29.33	47	SE	4	0	29.17	- 12	44	43	- 0	SW	4	6	4	50	38	0.08	
Wick ...	29.41	42	ESE	2	0	29.20	- 17	44	41	+ 1	NW	1	0	1	46	40	0.01	
Nairn ...	29.41	42	ESE	2	0	29.24	- 06	43	41	+ 1	SW	3	0	2	47	38	0.03	
Aberdeen ...	29.44	41	E	3	og	29.30	- 01	45	42	+ 3	SW	3	6	4	45	41	0.04	
Leith ...	29.41	43	NE	2	c	29.38	+ 19	48	44	+ 6	W	4	6	*	48	39	-	
Shields ...	29.37	44	NNE	1	0	29.46	+ 32	45	44	+ 1	S	1	0	2	48	39	0.03	
Spurn Head ...	29.38	46	SW	2	bc	29.58	+ 40	45	43	+ 4	SW	4	c	3	52	40	-	
York ...	29.37	48	W	1	bc	29.54	+ 40	47	45	+ 5	SW	3	c	*	44	38	0.01	
Loughborough ...	29.41	47	W	2	0	29.65	+ 46	48	46	+ 5	WSW	4	6	*	50	41	0.03	
BRITISH ISLANDS.																		
Ardrossan ...	29.40	46	NW	1	om	29.42	+ 25	46	46	+ 2	WSW	4	6	4	46	42	-	
Malin Head ...	29.38	45	S	1	0	29.38	+ 18	44	43	+ 1	SW	5	bph	3	48	40	0.18	
Mullaghmore ...	29.41	49	SW	2	b	29.51	+ 28	45	43	- 0	SW	6	bcq	5	50	43	0.12	
Belmullet ...	29.38	49	SW	5	0	29.54	+ 25	48	47	+ 2	W	6	bc	*	52	44	0.12	
Donaghadee ...	29.42	48	N	2	c	29.52	+ 38	45	44	+ 1	WNW	3	0	2	51	43	0.04	
Liverpool (Bidston) ...	29.44	44	W	3	b	29.60	+ 45	49	45	+ 6	WSW	5	6	4	49	42	0.01	
Holyhead ...	29.46	45	WNW	1	b	29.64	+ 53	48	46	+ 5	WSW	4	6	4	48	43	0.08	
Parsonstown ...	29.50	50	W	0	bc	29.63	+ 39	47	45	+ 3	SW	2	6	*	55	43	0.05	
Valencia ...	29.54	48	SW	6	oam	29.75	+ 35	51	48	+ 2	WSW	5	om	6	55	47	0.03	
Roche's Point ...	29.56	51	W	4	bc	29.73	+ 38	50	47	+ 3	W	4	6	4	55	45	0.02	
Pembroke (St. Ann's Hd.) ...	29.55	47	W	5	bc	29.75	+ 49	47	47	+ 1	SW	3	6	4	49	45	0.03	
Scilly ...	29.65	50	WNW	6	c	29.85	+ 48	50	49	+ 2	WSW	5	c	5	52	46	0.02	
Prawle Point ...	29.64	48	WNW	4	b	29.84	+ 49	49	49	+ 2	WNW	4	og	3	51	45	0.12	
Jersey (St. Aubin's) ...	29.65	44	W	5	bm	29.90	+ 52	48	47	- 0	SW	5	orm	4	52	46	0.05	
Hurst Castle ...	29.56	47	W	5	cq	29.81	+ 49	47	47	+ 1	WSW	5	oam	4	50	44	0.06	
Dungeness ...	29.43	46	WSW	6	cp	29.78	+ 51	46	45	+ 1	W	6	c	4	49	43	0.02	
London ...	29.49	49	WSW	2	cp	29.75	+ 51	47	46	+ 1	SSW	3	0	*	55	40	0.02	
Oxford ...	29.54	46	WSW	3	0	29.74	+ 49	48	46	+ 4	SW	3	cp	*	54	41	0.02	
Cambridge ...	29.47	45	SW	1	1	29.73	+ 49	48	46	+ 2	SW	2	0	*	54	37	0.03	
Yarmouth ...	29.41	50	SW	2	c	29.67	+ 45	46	44	+ 2	SW	3	6	3	52	39	0.03	
GERMANY & HOLLAND.																		
Cuxhaven ...	29.38	42	W	3	1	29.70	+ 27	41	40	- 0	SW	3	6	*	51	40	1.18	
Berlin ...	29.57	55	W	0	0	29.82	+ 27	49	47	+ 5	WNW	3	1	*	61	?	0.04	
Wiesbaden ...	*	*	*	*	*	29.93	+ 52	45	43	- 3	W	2	6	*	54	41	0.12	
Munich ...	29.58	52	W	5	0	29.97	+ 47	44	43	- 0	W	3	1	*	64	43	0.04	
The Helder ...	29.52	42	S	1	bc	29.71	+ 45	42	42	- 1	SSW	2	c	3	50	41	-	
FRANCE AND BELGIUM.																		
Brussels (9 a.m.) ...	*	*	*	*	*	29.87	+ 53	46	44	- 0	WSW	3	c	*	53	43	0.04	
Cape Gris Nez ...	?	45	WSW	5	bc	?	?	45	44	-	WSW	3	c	3	48	45	-	
Paris ...	29.65	47	W	2	bc	29.98	+ 60	39	38	- 7	S	1	6	*	58	37	-	
Brest ...	29.83	51	NW	3	b	29.91	+ 46	51	50	+ 2	WNW	3	1	6	57	48	0.08	
Lorient ...	29.77	49	WNW	5	b	29.96	+ 52	50	50	+ 4	WSW	5	1	5	52	45	0.04	
Rocheport ...	29.84	51	WNW	5	b	30.10	?	50	50	+ 3	WSW	3	0	?	54	41	-	
Belfort ...	29.72	42	SE	1	0	30.06	+ 64	44	42	+ 2	NNE	2	6	*	44	37	0.47	
Lyons ...	29.68	42	E	6	1	29.78	+ 14	51	44	+ 2	E	4	0	4	?	43	2.68	
Perpignan ...	29.69	51	NW	5	bc	30.07	+ 56	49	43	+ 1	NW	4	c	*	54	46	-	
Biarritz ...	29.89	47	WNW	5	1	30.17	+ 57	51	48	+ 1	WNW	4	0	4	54	45	0.16	
SPAIN.																		
Corunna ...	*	*	*	*	*	30.12	?	51	49	-	W	0	6	5	59	48	-	
Lisbon ...	30.12	54	NW	2	b	30.20	?	51	49	-	W	0	6	5	59	48	-	

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

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



# WEATHER CHARTS

for 8 a.m. on *Wednesdays* 26<sup>th</sup> March

1890

## 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:

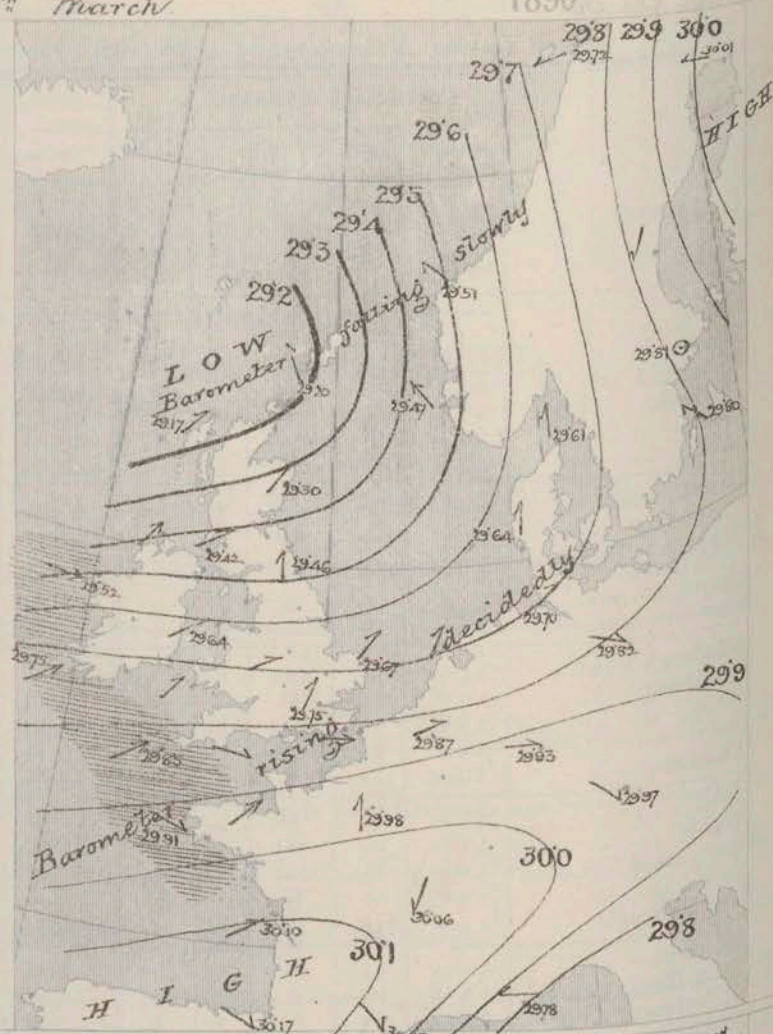
☼ = Rough. ☼ = High.

## MEAN HEIGHT OF THE BAROMETER

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

During the 15 Years: 1871—1885.

STATIONS.	MEAN READINGS.
Sumburgh Head .....	29.761
Stornoway .....	29.779
Wick .....	29.797
Nairn .....	29.815
Aberdeen .....	29.830
Leith .....	29.862
Shields .....	29.896
York .....	29.925
Loughborough .....	29.948
Ardrossan .....	29.876
Donaghadee .....	29.893
Holyhead .....	29.919
Liverpool .....	29.925
Parsonstown .....	29.940
Valencia .....	29.938
Roche's Point .....	29.941
Pembroke .....	29.944
Sally .....	29.966
Jersey .....	29.971
Hurst Castle .....	29.966
Dover .....	29.955
LONDON .....	29.967
Oxford .....	29.966
Cambridge .....	29.967
Yarmouth .....	29.938



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

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

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

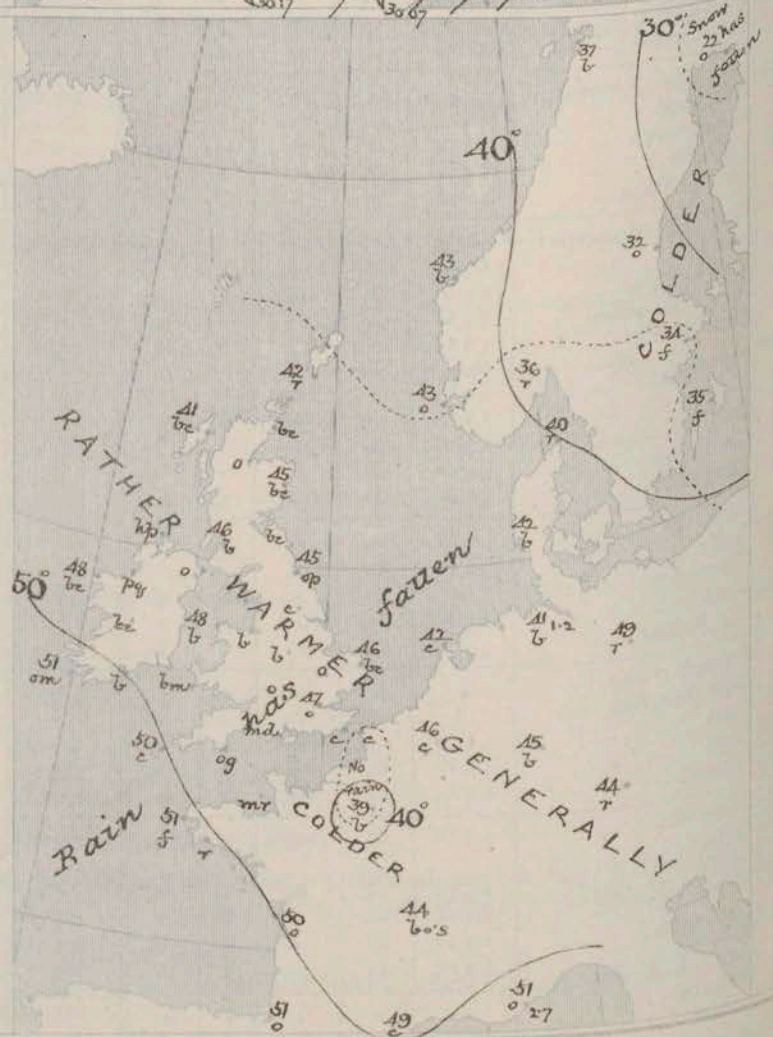
**RAINFALL**—A dotted line separates the districts in which rain has fallen from those where there has been none. Falls of 0.5 in. or more, are quoted in figures.

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

(For the month of March.)

STATIONS.	TEMPERATURE.				RAINFALL (Inches.)
	Daily Max.	Daily Min.	at 8 a.m.		
			Dry.	Wet.	
Sumburgh Head.....	42.8	34.0	38.5	37.1	2.92
Stornoway .....	44.8	34.4	39.2	38.0	3.87
Wick .....	44.7	33.9	39.1	37.2	1.97
Nairn .....	45.6	34.2	38.2	36.3	1.72
Aberdeen .....	45.4	34.7	38.9	36.8	2.24
Leith .....	48.2	34.6	39.7	37.9	1.36
Shields .....	45.9	35.4	39.6	38.0	1.60
York .....	48.9	33.7	38.6	37.1	1.63
Loughborough .....	49.3	34.3	39.5	37.7	1.47
Ardrossan .....	46.8	36.6	40.5	38.7	2.59
Donaghadee .....	47.3	37.1	41.0	39.7	1.99
Holyhead .....	47.6	39.2	42.5	41.0	2.21
Liverpool .....	47.3	37.1	40.8	38.7	1.69
Parsonstown .....	50.1	35.5	41.2	39.6	2.55
Valencia .....	51.6	40.6	45.4	43.4	1.21
Roche's Point .....	50.2	40.0	43.8	42.1	3.71
Pembroke .....	47.1	39.5	42.6	40.8	2.45
Sally .....	49.9	43.0	46.5	44.7	2.88
Jersey .....	49.9	40.3	44.7	42.7	2.92
Hurst Castle .....	48.3	37.7	41.5	40.7	1.60
Dover .....	46.9	37.8	41.6	39.9	1.80
LONDON .....	50.6	38.5	46.6	44.7	1.43
Oxford .....	49.6	35.2	39.4	37.9	1.62
Cambridge .....	50.6	33.3	39.2	37.7	1.33
Yarmouth .....	45.7	35.8	40.8	38.1	1.77

NOTE.—The Temperature means are for the 15 years 1871-85, the Rainfall means are only those for the 20 years 1869-88.





# GENERAL SITUATION AT 8 A.M.

## PRESSURE

Highest, 30.0 ins. to 30.2 ins. and more, over the southeast of France and the Peninsula, 29.8 ins. to 30.0 ins. and more, over Sweden and Scotland.  
 Lowest, 29.2 ins. and less, to the northwestward of Scotland.  
 Gradient moderate. Barometer rising in the west and south, falling in the far north.

## TEMPERATURE

Highest, 52° at Luton, 51° at Nice, Biarritz, Brest, and Valencia, 47° in London and at Passaricourt, 45° at Aberdeen.  
 Lowest, 22° at Haparanda, 34° at Stockholm, 36° at Gothenburg, and 39° at Paris.  
 It rose to between 50° and 55° over England yesterday afternoon, and remained above 40° (except at Cambridge and Yarmouth) during the night.

## WIND

SE<sup>4</sup> in Norway, S<sup>2</sup> over the North Sea, SW<sup>2</sup> and W<sup>1</sup> over the British Islands, W<sup>1</sup> over the Channel and Bay of Biscay.  
 It is moderate to fresh in force very generally, strong on the northwest coast of Ireland.

## WEATHER

Fair and bright in many places, cloudy elsewhere, with rain in some localities and a changeable, showery appearance generally.  
 Rainfall measured this morning was less than 0.2 ins. at all of our own stations, but was 0.5 ins. at Lyons, 1.2 ins. at Louth, and 2.7 ins. at Nice.

## SEA

Rough in the extreme west and southeast, moderate in most other places, slight or smooth elsewhere.

## PROBABLE CHANGES IN SYSTEM NOW PREVALENT

There is no indication of any important change.

## FORECASTS

For the 24 hours ending at NOON on 27<sup>th</sup> March 1890.

### DISTRICTS.

### FORECASTS.

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

SW<sup>2</sup> and S<sup>2</sup> breezes, moderate; some showers, bright intervals.  
 SW<sup>2</sup> breezes, moderate; passing showers, bright intervals.

### DISTRICTS.

### FORECASTS



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

W<sup>2</sup> and SW<sup>2</sup> breezes, moderate to fresh; showery.

W<sup>2</sup> and SW<sup>2</sup> breezes, fresh, showers and bright intervals.

### WARNINGS

NONE ISSUED.

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



# YESTERDAY'S 2 P.M. REPORTS.

	BAR:	THER:		WIND		WEA.	SEA		BAR:	THER:		WIND		WEA.	SEA
		D.	W.	D.	F.					D.	W.	D.	F.		
Skudesnaes ...	29.34	57	41	ESE	4	0	3	Holyhead ...	29.33	45	44	NEW	4	0g	4
Sumburgh Head ...	29.46	44	43	ESE	2	0	4	Valencia ...	29.55	54	50	W	4	cm	6
Stornoway ...	29.85	58	49	SE	5	0	5	Scilly ...	29.53	51	48	WSEW	6	c	4
Aberdeen ...	29.39	42	41	E	4	0g	5	Jersey ...	29.56	52	47	W	5	6	4
Shields ...	29.28	46	45	E	1	0	2	Dungeness ...	29.39	49	46	WSEW	6	6	8
Ardrossan ...	29.33	46	44	NE	2	0	1	London ...	29.40	54	49	W	3	0	3
Mulin Head ...	29.85	46	44	NW	1	0	2	Yarmouth ...	29.34	49	47	SW	3	c	3
Mullaghmore ...	29.39	49	47	W	3	c	2	Rochefort ...	29.71	52	50	WSEW	5	6	2
Belmullet ...	29.42	52	50	W	2	6	*								

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

Weather fine in the south and southwest of our Islands, in the west of France, Central Spain, and the southern parts of Germany, Austria and Italy. Cloudy or overcast in most other localities, with fog over Ireland and the north of Sweden, showers at some of our own northern stations, and steady rain over Western Germany, the east and south of France and the north of Spain. Showers falling later in most parts of the United Kingdom and heavy rain at some of the French and German stations the largest amount being 2.7 ins. at Nice.

Temperature highest 55° to 60° over the central and southern parts of the Mediterranean and also on the coasts of the Asian peninsula (La Cella 61°, Algiers 59°, Apoko and San Fernando 57° and Cagliari, Palma and Malta 56°). Lowest 17° at Archangel, 27° at Uleaborg, 31° at Kopanawa, 32° at Khabarovsk, 33° at Herson, and 34° at Krasnoe and Helsinki; below 40° over the whole of Northern and Eastern Europe. Daily maxima over England and Ireland ranging between 50° and 55°, but thermometer exceeding 60° at some of the German stations.

Wind W or NW in the west and south of our Islands, the west of France, and the greater part of Spain, strong in force in the southeast of England. Light from the SE. over Russia and Central Europe, and from the East over Scandinavia and the northern parts of the United Kingdom. Chiefly S also in Italy and Algeria. Subsequently backing to the SE. in the west of Ireland, and increasing somewhat in force.

Barometer, highest 30.0 ins. and upwards, in a large anticyclone lying over Russia, and also in a smaller area lying to the SW. of Spain. Lowest, 29.2 ins. and less, in a large but somewhat shallow depression lying over the more central parts of the United Kingdom. Depression filling up gradually during day, but new disturbances beginning to affect the mercury on our extreme western coasts.

### EXPLANATION OF COLUMNS GIVEN ON PAGE 1.

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

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

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

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



# DAILY WEATHER REPORT.

for *Thursday, 27<sup>th</sup> March,* 1890.  
 Issued by the Meteorological Office, 63, Victoria Street, London. *R. H. SCOTT, Secretary.*

Issued by the Meteorological Office, 63, Victoria Street, London. R. H. SCOTT, Secretary.																	
STATIONS.	YESTERDAY EVENING.					8 A.M. TO DAY.										PAST 24 HOURS.	
	BAROM.  Reading at 32° F. and Sea Level.	TEMP.  Dry.	WIND.		Weather.	BAROMETER.		SHADE TEMP.			WIND.		Weather.	Sea. (0 to 4.)	SHADE TEMP.		Amount of Rainfall.
			Dir.	Force. (0 to 12.)		Reading at 32° F. and Sea Level.	Difference from 8 a.m. yesterday.	Dry.	Wet.	Difference from 8 a.m. yesterday.	Dir.	Force. (0 to 12.)			Max.	Min.	
SCANDINAVIA.																	
Haparanda ...	29.91	26	NE	2	0	29.68	- 23	35	33	+ 13	S	2	0	*	?	18	-
Hernösand ...	29.74	33	NE	2	f	29.59	- 29	35	34	+ 5	SE	0	S	*	36	30	0.16
Stockholm ...	29.70	35	ESE	2	T	29.54	- 27	30	35	+ 5	S	2	0	*	45	32	0.08
Wishby ...	29.76	36	SE	4	f	29.65	- 15	40	39	+ 5	W	6	6c	*	48	32	0.04
Bodö ...	29.59	36	ESE	4	bc	29.46	- 26	35	33	- 2	ESE	4	S	2	39	32	-
CHRISTIANIA.																	
Christiansund	29.33	44	ESE	2	C	29.40	- 11	42	39	- 1	ESE	1	C	1	50	39	-
Skudesnaes ...	29.43	43	WSW	4	0	29.68	+ 21	42	41	- 1	SSE	4	0	4	43	39	0.24
Christiania Fjord (Færder)	29.47	39	SSW	3	T	29.59	- 09	38	37	+ 2	W	4	6	2	39	36	0.59
Skagen (The Scaw)	29.50	41	SW	4	0	29.68	+ 09	42	41	+ 2	WSW	6	6	4	45	39	0.20
Fanø ...	29.70	41	WSW	4	bc	29.95	+ 31	43	42	+ 1	W	4	C	*	45	41	-
SCOTLAND.																	
Sumburgh Head	29.23	44	W	3	bc	29.43	+ 23	43	41	+ 1	SSE	2	0	4	47	39	0.13
Stornoway ...	29.40	47	W	5	6	29.42	+ 25	40	39	- 4	W	5	6c	4	49	40	0.25
Wick ...	29.40	43	W	1	bc	29.45	+ 25	48	46	+ 4	W	5	6	1	51	39	0.02
Nairn ...	29.48	43	WSW	3	C	29.48	+ 24	47	45	+ 4	W	3	6	1	51	39	0.13
Aberdeen ...	29.51	45	W	4	6	29.55	+ 25	48	46	+ 3	S	4	6c	3	54	40	-
ENGLAND.																	
Leith ...	29.61	46	W	6	6	29.62	+ 24	52	48	+ 4	WSW	5	6	*	54	44	0.01
Shields ...	29.66	52	W	4	bc	29.70	+ 24	52	50	+ 7	SSW	3	6c	2	55	43	-
Spurn Head ...	29.78	51	W	4	C	29.84	+ 26	50	49	+ 5	SSW	4	0	3	54	43	0.07
York ...	29.77	51	W	4	6	29.84	+ 27	54	52	+ 7	SW	3	0	*	57	44	0.02
Loughborough	29.87	53	W	3	C	29.92	+ 27	53	51	+ 5	SSW	3	0	*	60	46	0.05
IRISH ISLANDS.																	
Ardrossan ...	29.66	48	W	4	6	?	?	48	47	+ 2	SW	3	C	2	50	45	0.04
Malin Head ...	29.64	47	WSW	4	opm	29.66	+ 28	47	45	+ 3	SW	5	6m	4	49	42	0.05
Mullaghmore ...	29.71	50	SW	5	bc	29.74	+ 23	48	46	+ 3	WSW	5	C	4	51	44	0.03
Belmullet ...	29.62	49	SW	5	0	29.75	+ 23	49	48	+ 1	SW	2	6c	*	51	46	0.04
Donaghadee ...	29.73	50	W	3	bc	29.77	+ 25	50	48	+ 5	W	2	0	1	55	44	0.03
BRITISH ISLANDS.																	
Liverpool (Bidston)	29.84	51	SW	3	bc	29.85	+ 25	51	49	+ 2	SW	4	T	3	55	46	0.12
Holyhead ...	29.83	48	SW	4	C	29.84	+ 20	48	48	0	SW	4	rmq	4	53	45	0.26
Parsonstown ...	29.80	52	WS	0	C	29.82	+ 19	50	49	+ 3	SW	2	0	*	54	46	0.04
Valencia ...	29.76	49	SE	0	rgm	29.84	+ 09	49	49	- 2	S	1	om	2	54	49	0.21
Roche's Point...	29.85	48	SSW	5	T	29.83	+ 12	50	50	0	WSW	2	T	4	52	48	0.20
IRELAND.																	
Pembroke (St. Ann's Hd.)	29.93	47	SSW	4	T	29.92	+ 17	48	48	+ 1	SSW	5	rgm	5	49	47	0.09
Scilly ...	29.97	51	SSW	5	f	29.98	+ 13	50	50	0	SSW	5	f	5	55	47	-
Prawle Point ...	30.04	49	W	3	m	30.05	+ 21	48	48	- 1	SSW	4	f	3	51	47	0.02
Jersey (St. Aubin's)	30.08	50	W	4	0	30.16	+ 26	51	49	+ 3	SSW	4	ofm	3	54	47	0.02
Hurst Castle ...	30.01	48	WSW	5	C	30.08	+ 27	49	49	+ 2	WSW	5	f a	4	51	46	0.01
ENGLAND.																	
Dungeness ...	29.94	46	W	5	C	30.08	+ 30	47	46	+ 1	WSW	4	0	3	48	44	-
London ...	29.95	55	WSW	3	bc	30.04	+ 29	51	50	+ 4	W	2	0	*	61	47	-
Oxford ...	29.98	50	SW	3	0	30.00	+ 26	52	50	+ 4	SSW	3	0	*	59	48	-
Cambridge ...	29.90	55	WSW	4	bc	29.99	+ 26	53	51	+ 5	SW	2	0	*	60	45	-
Yarmouth ...	29.83	54	W	3	bc	29.95	+ 28	52	51	+ 6	WSW	4	C	3	57	44	0.02
GERMANY & HOLLAND.																	
Cuxhaven ...	29.79	44	SW	4	0	29.98	+ 28	42	41	+ 1	WSW	3	C	*	49	41	0.06
Berlin ...	29.96	52	SW	3	0	30.07	+ 25	50	47	+ 1	W	3	C	*	59	48	-
Wiesbaden ...	*	*	*	*	*	30.23	+ 30	51	48	+ 6	SW	2	6c	*	55	?	-
Munich ...	30.21	44	SW	3	6	30.35	+ 38	45	42	+ 1	SW	4	0	*	50	39	-
The Helder ...	29.89	54	SW	3	C	30.02	+ 31	43	43	+ 1	SSW	2	f	3	46	?	0.04
FRANCE AND BELGIUM.																	
Brussels (9 a.m.)	*	*	*	*	*	30.17	+ 30	50	49	+ 4	SSW	3	0	*	55	46	0.04
Cape Gris Nez	?	46	WSW	5	C	?	?	47	46	+ 2	SSW	5	0	4	48	43	-
Paris ...	30.12	53	SSW	2	bc	30.25	+ 27	51	50	+ 12	SSW	2	0	*	?	?	-
Brest ...	30.09	57	W	2	m	?	?	49	49	- 2	S	4	m	5	54	48	-
Lorient ...	30.14	49	SSW	2	f	30.16	+ 20	48	48	- 2	SSW	3	m	5	52	46	-
FRANCE AND BELGIUM.																	
Rochefort ...	30.25	52	SSW	3	f	30.30	+ 20	49	49	- 1	S	2	f	7	54	48	0.04
Belfort ...	30.13	50	WSW	1	bc	30.28	+ 22	47	38	+ 3	N	1	0	*	50	?	-
Lyons ...	30.21	50	ESE	1	6	30.33	+ 27	46	43	+ 2	N	1	0	*	57	44	-
Nice ...	30.05	54	SW	4	6	30.23	+ 35	51	44	0	E	4	6	1	64	46	-
Perpignan ...	30.17	58	WSW	5	6	30.30	+ 23	50	46	+ 1	W	2	6	*	61	45	-
Biarritz ...	30.26	56	WS	0	6	30.19	+ 02	46	44	- 5	E	4	6	2	61	43	-
SPAIN.																	
Corunna ...	*	*	*	*	*	?	?	?	?	?	?	?	?	?	?	?	-
Lisbon ...	30.12	63	NE	3	6	30.05	- 15	54	50	+ 3	NE	4	6	?	66	?	-

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

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



# WEATHER CHARTS

for 8 a.m. on

Thursday, 27<sup>th</sup> March.

1890.

## 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:

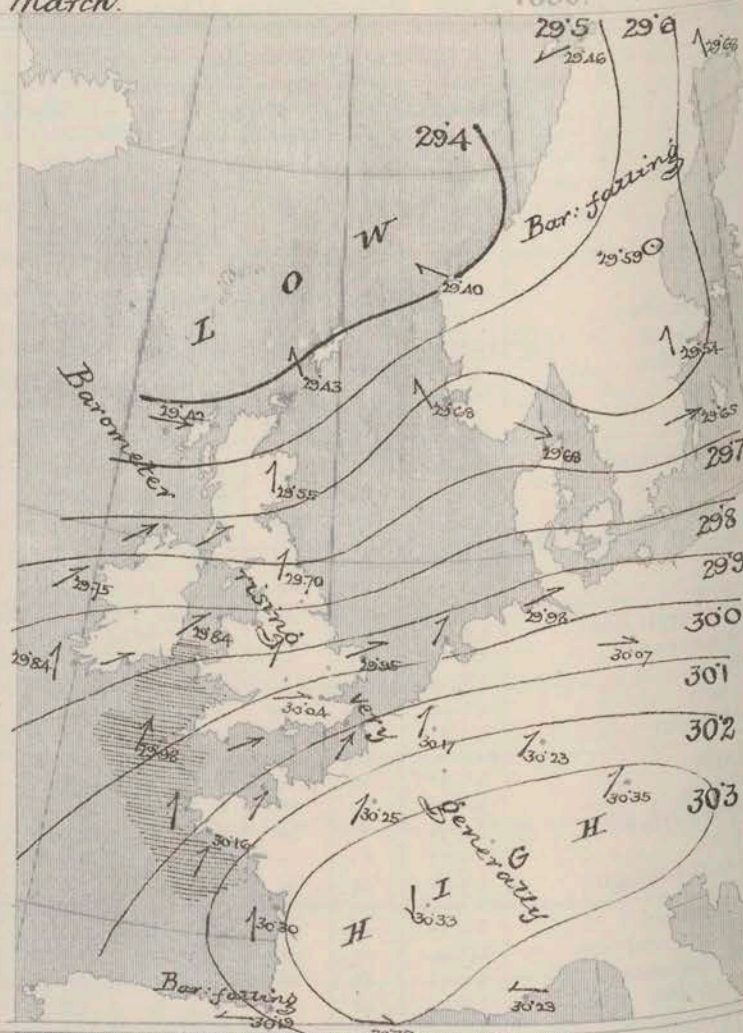
☰ = Rough. ☲ = High.

## MEAN HEIGHT OF THE BAROMETER

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

During the 15 Years: 1871—1885.

STATIONS.	MEAN READINGS.
Sumburgh Head	29.751
Stornoway	29.779
Wick	29.797
Nairn	29.815
Aberdeen	29.830
Leith	29.862
Shields	29.896
York	29.925
Loughborough	29.948
Ardrossan	29.879
Donaghadee	29.892
Holyhead	29.919
Liverpool	29.925
Parsonstown	29.940
Valencia	29.938
Roche's Point	29.941
Pembroke	29.944
Scilly	29.966
Jersey	29.971
Hurst Castle	29.968
Dover	29.955
LONDON	29.967
Oxford	29.968
Cambridge	29.957
Yarmouth	29.938



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

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

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

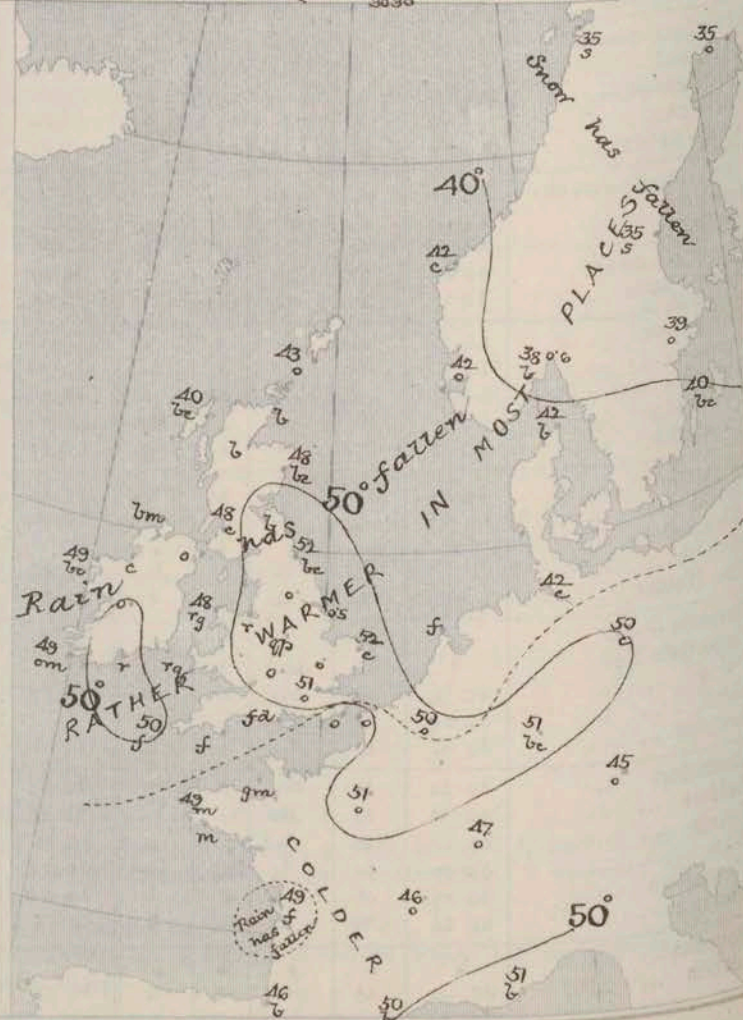
**RAINFALL**—A dotted line separates the districts in which rain has fallen from those where there has been none. Falls of 0.5 in. or more, are quoted in figures.

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

(For the month of March.)

STATIONS.	TEMPERATURE.				RAINFALL. (Inches.)
	Daily Max.	Daily Min.	At 8 a.m.	At 8 a.m.	
Sumburgh Head	42.6	34.0	38.5	37.1	2.92
Stornoway	44.9	34.4	39.2	38.0	3.87
Wick	44.7	33.9	39.1	37.2	1.97
Nairn	45.6	34.2	38.2	36.3	1.72
Aberdeen	45.4	34.7	38.9	36.8	2.24
Leith	48.2	34.6	39.7	37.9	1.36
Shields	45.9	35.4	39.6	38.0	1.60
York	48.9	33.7	38.0	37.1	1.63
Loughborough	49.3	34.3	39.5	37.7	1.47
Ardrossan	46.8	30.6	40.5	38.7	2.59
Donaghadee	47.3	37.1	41.0	39.7	1.99
Holyhead	47.0	39.2	42.5	41.0	2.21
Liverpool	47.3	37.1	40.8	38.7	1.69
Parsonstown	50.1	35.5	41.2	39.6	2.35
Valencia	51.6	40.6	45.4	43.4	4.24
Roche's Point	50.2	40.0	43.8	42.1	3.71
Pembroke	47.1	39.5	42.6	40.8	2.45
Scilly	49.9	43.0	46.5	44.7	2.38
Jersey	49.9	40.5	44.7	42.7	2.32
Hurst Castle	48.3	37.7	41.5	40.7	1.80
Dover	46.9	37.8	41.6	39.9	1.86
LONDON	50.6	35.8	40.8	38.7	1.43
Oxford	49.5	35.2	39.4	37.9	1.52
Cambridge	50.6	33.2	39.2	37.7	1.33
Yarmouth	45.7	35.8	40.8	39.1	1.77

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





# GENERAL SITUATION AT 8 A.M.

## PRESSURE

Highest 30.1 ins. to 30.3 ins over Spain, France and south Germany.

Lowest 29.1 ins. and less off the extreme north of our Islands and the west of Norway.

Gradients were moderate. Barometer was rising, except at Biarritz, and, apparently, at Valencia.

## TEMPERATURE

Highest 50° to 54° at most of the English stations, 52° at Leith, 51° at Nice, 50° at Perpignan, 49° at Brest, Valencia and Balmuccia.

Lowest 35° over the northern parts of Sweden and Norway, 38° at Faerder 39° at Stockholm, 42° in the west of Norway. It rose during yesterday to 61° in London, 60° at Loughborough and Cambridge, 59° at Oxford, 57° at York and Barmouth.

## WIND

Moderate to fresh from W and SW in Scotland, from between WSW and SSW over England, and from the S.W. in the west of Ireland, and the northwest of France. In the southern parts of France it was E.W.

## WEATHER

Fine and bright in the northeast and east of Scotland, dull and gloomy elsewhere with rain in some places and fog over all the western parts of the Channel, and on the shores of the Bay of Biscay. Rainfall yesterday was slight generally.

## SEA

Still rough on our southwestern coasts, moderate off the north and northwest of Scotland, and in the Channel, slight or smooth on our east coasts.

## PROBABLE CHANGES IN SYSTEM NOW PREVALENT

Mild weather is still probable, with rain at times, especially in the west and north.

## FORECASTS

For the 24 hours ending at NOON on 28<sup>TH</sup> MARCH 1890.

### DISTRICTS.

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

### FORECASTS.

SW<sup>2</sup> and S<sup>2</sup> winds, varying considerably in force, mild, changeable, some rain.

SW<sup>2</sup> winds, fresh to moderate; changeable, mild, some rain.

### DISTRICTS.

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

### FORECASTS

Wind backing to S.W. again, force

doubtful at present; squally, showery.

### WARNINGS

The South cone was hoisted last evening in districts 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		WEA.	SEA		BAR:	THER:		WIND		WEA.	SEA
		D.	W.	D.	F.					D.	W.	D.	F.		
Skudesnaes ...	29.41	41	39	SSW	8	r	5		Holyhead ...	29.76	49	47	SW	5	4
Sumburgh Head ...	29.17	46	44	WSW	2	c	4		Valencia ...	29.83	82	50	SSW	5	1
Stornoway ...	29.28	44	44	SW	6	r	6		Scilly ...	29.95	54	52	SW	4	4
Aberdeen ...	29.38	50	44	WSW	5	bcq	4		Jersey ...	30.03	53	50	W	5	4
Shields ...	29.57	53	46	WSW	5	bc	2		Dungeness ...	29.86	47	46	W	5	4
Ardrossan ...	29.55	49	46	WSW	5	b	4		London ...	29.85	61	51	WSW	2	3
Malin Head ...	29.52	48	45	WSW	6	c	5		Yarmouth ...	29.74	56	50	W	4	2
Mullaghmore ...	29.67	47	42	WSW	7	cq p	6		Rochefort ...	30.21	51	51	SSW	4	0
Belmullet ...	29.67	50	47	W	6	bc	*								

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

Weather varying greatly in different places; fine in many parts of our Islands, as well as in the southern parts of Spain and Russia, but cloudy or overcast in most other localities. Fog reported over Finland and the south of Sweden. Rain falling at several of the Danish and German stations, and also in Algeria, Italy and the south of France; snow at Uleaborg. Showers falling during day in isolated parts of the United Kingdom, and steady rain setting in over Ireland at night.

Temperature highest 55° and upwards at several of the Mediterranean stations, as well as on the northwest coast of Spain, the highest readings of all being 61° at Malta, 59° at Barcelona, 57° at Brindisi, Palermo and Nemours, 56° at Algiers, and 55° at Lesina, Naples and Cagliari. Lowest 6° at Archangel, 22° at Haparanda and Uleaborg, 32° at Harnosand, 34° at Kiev, Stockholm, and 35° at Kuopio, Whisby and Moscow; below 40° in nearly all parts of northern and eastern Europe. Rising later to 60° at Loughborough and Cambridge, and 61° in London.

Wind moderate or fresh from the W<sup>nd</sup> or SW<sup>nd</sup> over our Islands, the Netherlands and Germany; moderate from the S<sup>nd</sup> or SE<sup>nd</sup> on the eastern shores of the North Sea, light from SE in Russia. SE<sup>2</sup> or E<sup>2</sup> in Italy, E<sup>2</sup> or NE<sup>2</sup> in the south of France; NW<sup>2</sup> over the western parts of the Mediterranean; fresh or strong in force at some of the Algerian stations. Subsequently backing to the S or SE in the extreme SW of our Islands.

Barometer highest 30.2 ins and upwards over Russia, and also in Spain. Lowest 29.2 ins. and less in a depression lying to the northward of Scotland; low 29.6 ins. and less in an elongated disturbance lying between the coasts of Sicily and Tunis. Depression to the north of our Islands subsequently travelling away in a northeasterly direction, but new disturbance approaching the southwest of Ireland in the evening.

### EXPLANATION OF COLUMNS GIVEN ON PAGE 1.

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

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

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

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



# DAILY WEATHER REPORT.

for *Friday, 28<sup>th</sup> March,* 1890.  
*Issued by the Meteorological Office, 63, Victoria Street, London. R. H. SCOTT, Secretary.*

Issued by the Meteorological Office, 63, Victoria Street, London. R. H. SCOTT, Secretary.																	
STATIONS.	YESTERDAY EVENING.					8 A.M. TO DAY.										PAST 24 HOURS.	
	BAROM.	TEMP.	WIND.		Weather.	BAROMETER.		SHADE TEMP.			WIND.		Weather.	Sea. (0 to 3.)	SHADE TEMP.		Amount of Rainfall.
			Reading at 32° F. and Sea Level.	Dry.		Dirac.	Force. (0 to 12.)	Reading at 32° F. and Sea Level.	Difference from 8 a.m. yesterday.	Dry.	Wet.	Difference from 8 a.m. yesterday.			Dirac.	Force. (0 to 12.)	
SCANDINAVIA.																	
Haparanda ...	29.56	33	Z	0	0	29.48	- .20	34	34	- 1	Z	0	S	*	36	23	0.12
Hernösand ...	29.53	34	Z	0	0	29.53	- .06	37	36	+ 2	Z	0	O	*	37	32	-
Stockholm ...	29.61	37	SSW	2	0	29.60	+ .06	37	37	0	WNW	4	C	*	48	32	0.16
Wisby ...	29.73	45	SW	6	bc	29.67	+ .02	39	37	- 1	W	6	C	*	46	36	0.04
Bodö ...	29.43	39	E	2	0	29.46	- .00	39	35	+ 4	E	2	O	1	41	34	-
CHRISTIANIA.																	
Christiansund	29.42	43	WSW	3	r	29.65	+ .25	42	41	0	WSW	5	C	4	45	41	0.39
Skudesnaes ...	29.69	43	WSW	4	b	29.90	+ .22	42	41	0	Z	0	O	2	43	39	0.16
Christiania Fjord (Færder)	29.57	39	W	5	f	29.72	+ .13	42	38	+ 4	WNW	5	C	3	?	?	-
Skagen (The Scaw)	29.68	41	W	6	b	29.84	+ .16	41	40	- 1	WNW	6	C	4	54	39	0.04
Fanö ...	29.93	41	WSW	4	b	29.98	+ .03	42	42	- 1	WSW	2	T	*	45	41	0.28
SCOTLAND.																	
Sumburgh Head	29.51	44	W	6	bcp	29.75	+ .32	45	43	+ 2	WSW	3	C	4	47	41	0.21
Stornoway ...	29.66	48	SW	5	bc	29.74	+ .32	44	44	+ 4	W	4	C	4	50	40	0.08
Wick ...	29.68	49	W	4	bc	29.83	+ .38	44	42	- 4	W	2	O	1	52	39	-
Nairn ...	29.68	46	W	1	b	29.83	+ .35	39	38	- 8	Z	0	bc	1	53	36	0.01
Aberdeen ...	29.78	50	WSW	3	b	29.87	+ .32	47	42	- 1	SSW	2	C	2	57	42	0.01
ENGLAND.																	
Leith ...	29.82	52	W	4	bc	29.88	+ .26	47	46	- 5	S	1	O	*	57	45	-
Shields ...	29.86	57	W	2	C	29.92	+ .22	45	45	- 7	Z	0	om	2	60	44	0.10
Spurn Head ...	29.93	55	SW	2	om	29.99	+ .15	50	49	0	SSW	3	C	2	57	48	-
York ...	29.92	53	W	1	O	29.96	+ .12	54	52	0	WSW	1	O	*	58	52	0.02
Loughborough	29.97	58	SW	3	C	30.02	+ .10	52	50	- 1	SW	3	C	*	64	50	-
IRELAND.																	
Ardrossan	29.83	48	WSW	2	O	29.87	- .04	47	46	- 1	SE	1	om	0	50	45	0.03
Malin Head ...	29.79	48	W	3	O	29.85	+ .19	45	44	- 2	S	4	O	2	52	44	-
Mullaghmore ...	29.82	50	WSW	1	om	29.88	+ .14	47	44	- 1	WSW	2	C	2	55	44	0.01
Belmullet ...	29.83	52	SW	4	O	29.89	+ .14	48	47	- 1	WSW	3	O	*	53	46	-
Donaghadee ...	29.85	52	WSW	2	C	29.89	+ .12	48	43	- 2	SSW	2	O	0	57	45	0.05
BRITISH ISLANDS.																	
Liverpool (Bidston)	29.91	53	SW	3	O	29.97	+ .12	53	51	+ 2	SW	1	O	1	55	50	0.15
Holyhead ...	29.88	47	SSW	4	rgm	29.94	+ .10	47	47	- 1	SSW	4	dgm	4	49	46	0.43
Parsonstown ...	29.84	53	Z	0	T	29.89	+ .07	46	46	- 4	Z	0	O	*	55	45	0.06
Valencia ...	29.83	51	S	1	om	29.93	+ .09	49	48	0	WNW	1	om	1	54	46	0.05
Roche's Point...	29.85	50	SW	3	r	29.90	+ .05	49	49	- 1	SW	3	T	4	51	49	0.45
EUROPE.																	
Pembroke (St. Ann's Hd.)	29.97	48	SSW	4	O	30.00	+ .08	47	47	- 1	SSW	3	f	3	48	46	0.05
Scilly ...	29.99	51	S	5	f	29.95	- .03	49	48	- 1	SSW	4	f	5	52	47	-
Prawle Point ...	30.09	48	SW	2	m	30.04	- .01	49	49	+ 1	SE	1	f	1	49	47	-
Jersey (St. Aubin's)	30.15	54	S	3	O	30.07	- .09	50	49	- 1	SE	2	f	2	55	48	-
Hurst Castle ...	30.12	48	WSW	3	C	30.08	- .00	49	49	0	S	3	om	2	49	48	0.02
FRANCE AND BELGIUM.																	
Dungeness ...	30.11	48	WSW	3	C	30.09	+ .01	46	46	- 1	SW	3	f	3	52	44	-
London ...	30.09	52	SSW	4	O	30.08	+ .04	52	51	+ 1	SW	2	f	*	55	50	-
Oxford ...	30.07	52	SW	2	O	30.07	+ .07	51	50	- 1	S	1	og	*	59	40	-
Cambridge ...	30.03	55	SW	3	O	30.06	+ .07	53	52	0	SW	2	O	*	60	40	-
Yarmouth ...	29.98	56	SW	3	bc	30.04	+ .09	53	52	+ 1	SW	3	b	3	58	50	-
GERMANY.																	
Cuxhaven ...	29.99	47	W	5	T	30.04	+ .06	49	48	+ 7	WSW	3	f	*	50	?	0.10
Berlin ...	30.10	57	W	3	T	30.13	+ .06	55	53	+ 5	W	3	f	*	57	?	0.04
Wiesbaden ...	*	*	*	*	*	30.23	- .00	48	46	- 3	Z	0	b	*	?	43	-
Munich ...	30.31	46	SE	2	bc	30.31	- .04	43	41	- 2	SW	2	bc	*	57	36	-
The Helder ...	30.06	45	SW	2	C	30.09	+ .07	45	44	+ 2	SW	2	C	3	46	43	0.04
NETHERLANDS.																	
Brussels (9 a.m.)	*	*	*	*	*	30.17	- .00	54	51	+ 4	SSW	3	bc	*	59	50	-
Cape Gris Nez	?	48	WSW	4	C	?	?	49	48	+ 2	SSW	2	C	2	52	46	-
Paris ...	30.22	55	SSW	2	b	30.19	- .06	39	39	- 12	Z	0	f	*	60	38	-
Brest ...	30.10	50	S	3	O	29.97	- .13	51	50	+ 2	ESE	3	O	3	57	46	0.04
Lorient ...	30.12	47	S	3	m	30.01	- .15	49	48	+ 1	ESE	3	C	5	52	45	-
FRANCE AND BELGIUM.																	
Rochefort ...	30.17	64	E	3	b	30.14	- .16	50	48	+ 1	SE	4	b	?	68	43	-
Belfort ...	30.17	64	E	3	b	30.14	- .16	50	48	+ 1	SE	4	b	?	68	43	-
Lyons ...	30.26	54	ESE	1	b	30.27	- .06	49	44	+ 3	SE	2	b	*	61	44	-
Nice ...	30.26	57	Z	0	b	30.29	+ .06	55	47	+ 4	ESE	2	b	1	64	46	-
Perpignan ...	30.27	54	E	2	b	30.24	- .06	55	49	+ 5	E	2	b	*	66	42	-
Biarritz ...	30.04	70	E	4	b	30.08	- .11	57	51	+ 11	SSW	3	b	2	73	?	-
SPAIN.																	
Corunna ...	*	*	*	*	*	29.91	- .14	55	54	+ 1	ESE	3	O	6	72	54	-
Lisbon ...	29.89	65	ESE	4	O	29.91	- .14	55	54	+ 1	ESE	3	O	6	72	54	-

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

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



# WEATHER CHARTS

for 8 a.m. on Friday, 28<sup>th</sup> March.

1890

## 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:

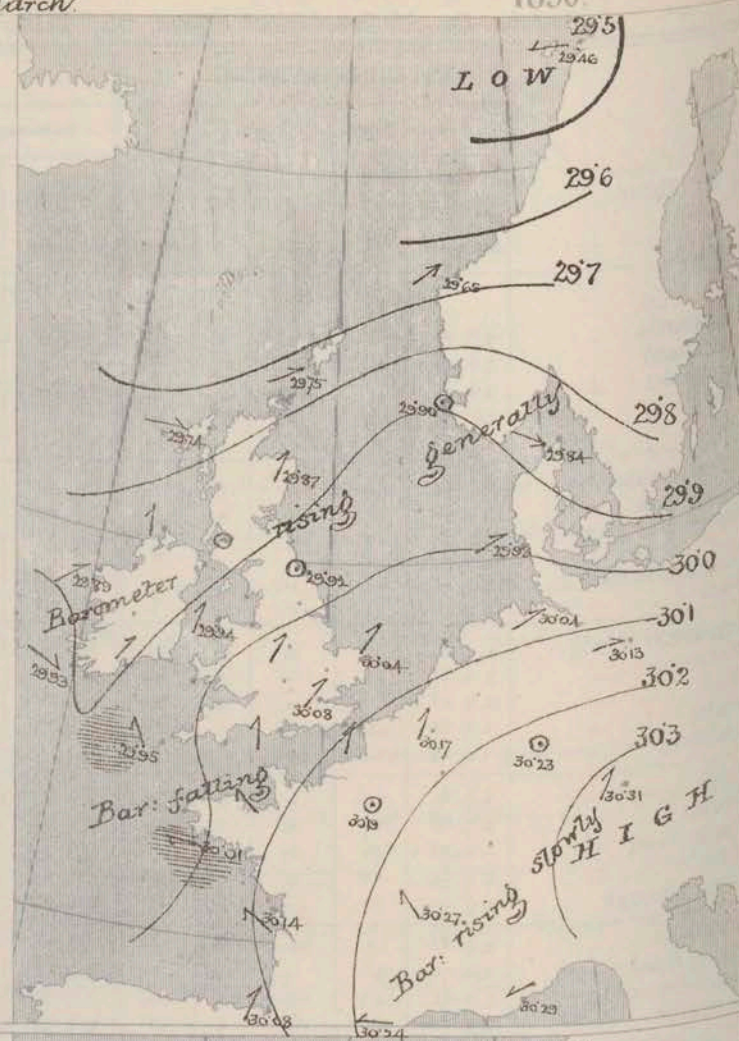
☼ = Rough. ☼ = High.

## MEAN HEIGHT OF THE BAROMETER

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

During the 15 Years: 1871—1885.

STATIONS.	MEAN READINGS.
Sumburgh Head	29.751
Stornoway	29.779
Wick	29.797
Nairn	29.816
Aberdeen	29.830
Leith	29.862
Shields	29.896
York	29.925
Loughborough	29.948
Ardrossan	29.876
Donaghadee	29.892
Holyhead	29.919
Liverpool	29.925
Parsonstown	29.940
Valencia	29.938
Roche's Point	29.941
Pembroke	29.944
Sally	29.966
Jersey	29.971
Hurst Castle	29.966
Dover	29.955
LONDON	29.967
Oxford	29.966
Cambridge	29.957
Yarmouth	29.938



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

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

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

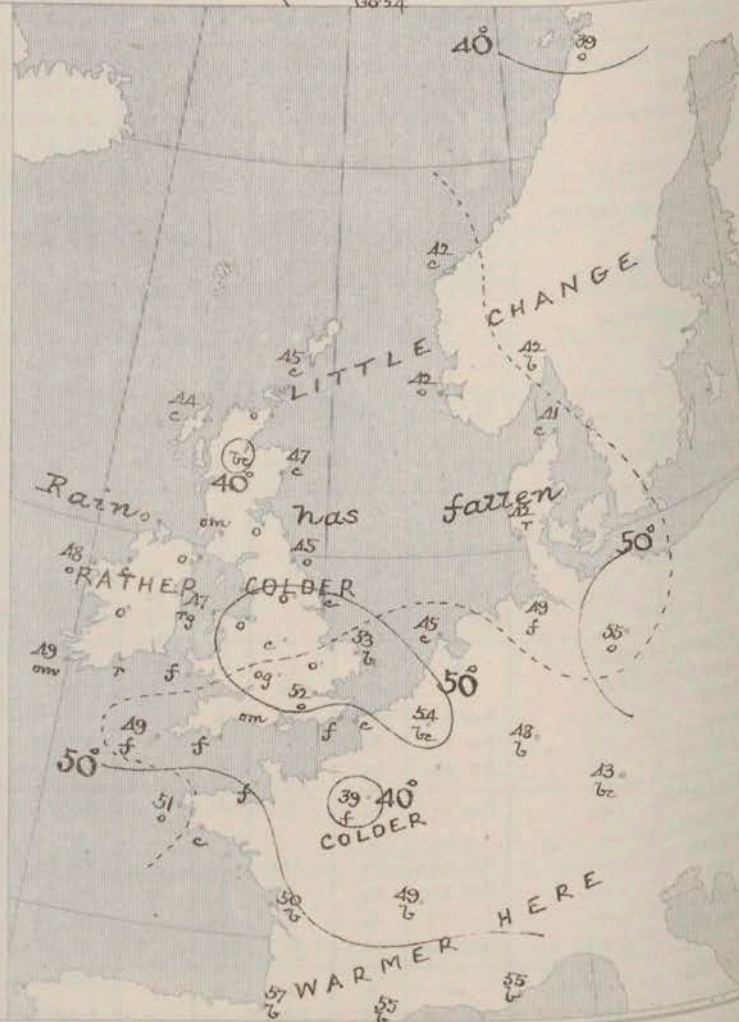
**RAINFALL**—A dotted line separates the districts in which rain has fallen from those where there has been none. Falls of 0.5 in. or more, are quoted in figures.

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

(For the month of March.)

STATIONS.	TEMPERATURE.				RAINFALL (Inches.)
	Daily Max.	Daily Min.	at 8 a.m. Dry.	Wet.	
Sumburgh Head	42.6	34.0	38.5	37.1	2.92
Stornoway	44.9	34.4	39.2	38.0	3.87
Wick	41.7	33.9	39.1	37.2	1.97
Nairn	45.6	34.3	38.2	36.3	1.72
Aberdeen	45.4	31.7	38.9	36.8	2.24
Leith	48.2	34.6	39.7	37.0	1.30
Shields	45.9	35.1	39.0	38.0	1.60
York	48.9	33.7	38.6	37.1	1.63
Loughborough	49.3	34.3	39.5	37.7	1.47
Ardrossan	46.8	36.6	40.5	38.7	2.59
Donaghadee	47.3	37.1	41.0	39.7	1.99
Holyhead	47.6	39.2	42.5	41.0	2.21
Liverpool	47.3	37.1	40.8	38.7	1.69
Parsonstown	50.1	35.3	41.2	39.6	2.35
Valencia	51.6	40.6	43.4	43.4	4.24
Roche's Point	50.2	40.0	43.8	42.1	3.71
Pembroke	47.1	39.5	42.6	40.8	2.45
Sally	49.9	43.0	45.5	44.7	2.38
Jersey	49.9	40.6	44.7	42.7	2.02
Hurst Castle	48.3	37.7	41.6	40.7	1.80
Dover	46.9	37.8	41.6	39.9	1.86
LONDON	50.6	35.8	40.6	38.7	1.43
Oxford	49.5	35.2	39.4	37.9	1.52
Cambridge	50.6	33.3	39.2	37.7	1.33
Yarmouth	45.7	35.5	40.8	39.1	1.77

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





# GENERAL SITUATION AT 8 A.M.

PRESSURE	<p>Highest 30.1 ins. to 30.3 ins. over France and Germany.          Lowest 29.5 ins. and less over the north of Norway; and 30.0 ins. and less at the mouth of the English Channel.          Gradients moderate to slight, and favourable for varying winds.          Barometer falling a little in the South, rising in the north.</p>
TEMPERATURE	<p>Highest 54° at Biarritz, 55° at Nice and Berlin, 54° at York, 52° in London, at          Lowest 39° at Paris, Nairn and Bodo, 41° at the Scaw, and 42° at Christiansund, and 43° at Feroe, Skudesnæs.          It rose to 64° at Loughborough, and 60° at Shields, Cambridge and Paris yesterday, and          touched 73° at Biarritz.</p>
WIND	<p>Moderate from W<sup>nd</sup> at the more northern stations. Light from the S<sup>nd</sup> over England, moderate from ESE in the west of France.          In the southwest of Ireland it is veering towards NW.</p>
WEATHER	<p>Fine at several of our northeastern and eastern stations, cloudy elsewhere; foggy over the western part of the Channel, raining on several parts of our western coasts.</p>
SEA	<p>Rather rough at Scilly, moderate to smooth on our other coasts.</p>
PROBABLE CHANGES IN SYSTEM NOW PREVALENT	

There is no indication of any very important change.

## FORECASTS

For the 24 hours ending at NOON on 29<sup>TH</sup> MARCH 1890.

DISTRICTS.	FORECASTS.	DISTRICTS.	FORECASTS.
0 SCOTLAND NORTH	<p>SW<sup>ly</sup> to NW<sup>ly</sup> winds and back again, moderate, perhaps some showers and becoming colder.</p>	6 SCOTLAND WEST	<p>Wind varying between SW and NW, light, some showers, but fine intervals.</p>
1 SCOTLAND EAST		7 ENGLAND N.W.	
2 ENGLAND N.E.		8 ENGLAND S.W.	
3 ENGLAND EAST	<p>SW<sup>ly</sup> and varying breezes, light; dull to fair, mild.</p>	9 IRELAND NORTH	<p>NW<sup>ly</sup> to SW<sup>ly</sup> breezes, light to fresh; some showers, but fair as a whole.</p>
4 MIDLAND COUNTIES		10 IRELAND SOUTH	
5 ENGLAND SOUTH		WARNINGS	None Issued.

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



# YESTERDAY'S 2 P.M. REPORTS.

	BAR:	THER:		WIND		WEA.	SEA		BAR:	THER:		WIND		WEA.	SEA
		D.	W.	D.	F.					D.	W.	D.	F.		
Skudesnaes ...	29.58	42	41	SSE	6	rf	4		Holyhead ...	29.89	48	48	SSW	4	7m
Sumburgh Head ...	29.38	45	43	W	4	r	4		Valencia ...	29.85	52	50	SE	2	0
Stornoway ...	29.58	50	46	W	5	6	4		Scilly ...	29.99	52	51	SSW	6	0
Aberdeen ...	29.68	57	45	WSW	5	6q	4		Jersey ...	30.18	53	51	S	4	0
Shields ...	29.81	59	51	W	2	6c	2		Dungeness ...	30.11	49	48	WSW	4	0
Ardrossan ...	29.80	50	48	SSW	3	6c	3		London ...	30.07	55	53	WSW	3	0
Malin Head ...	29.76	52	48	WSW	5	6c	3		Yarmouth ...	29.96	58	55	SW	4	6c
Mullaghmore ...	29.69	53	47	WSW	5	c	3		Rochefort ...	30.27	61	58	NW	3	6
Belmullet ...	29.81	52	50	SW	4	6c	*								

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

Weather fine over all the more northern parts of the United Kingdom, as well as over Denmark, Central Russia & the greater part of Southern Europe. Dull elsewhere, with fog or mist over the Channel and Bay of Biscay, rain at several of the English stations, as well as over the Baltic, and snow at Bodø and Hernösand. A thunderstorm was reported at Sfax. Rain falling later in the extreme north of Scotland, and also in Norway.

Temperature highest 55° and upwards at several of the Spanish and Mediterranean stations (Barbastro 62°, Barcelona 61°, Cagliari and Malta 59°, San Fernando and Sfax 58°); high 50° to 54° in many parts of western and central Europe. Lowest 23° at Archangel, 34° at Kuopio and Moscow, and 35° at Bodø, Haparanda, Hernösand, Hangö, Helsingfors and St Petersburg; below 40° at most of the Russian and Scandinavian stations. Subsequently rising to 60° at Shields and Cambridge, and 64° at Loughborough.

Wind moderate or fresh from the SW or W. over the United Kingdom, Denmark, the Baltic and the greater part of Central Europe. Light from the S. in France, Russia and Scandinavia. Chiefly N<sup>W</sup> or NE<sup>W</sup> in Italy and Algeria, but SE<sup>W</sup> in Morocco and the south of Spain. Subsequently backing to the S<sup>W</sup> on the west coasts of our Islands.

Barometer highest 30.3 ins. and upwards over South Germany and the Central parts of France and Spain; high 30.1 ins. and upwards over Russia. Lowest 29.4 ins. and less in a large depression lying to the northward of our Islands; low 29.8 ins. and less in a depression lying over the Mediterranean to the south of Malta. Northern depression travelling away northeastwards, but mercury giving way somewhat decidedly over France and Spain.

### EXPLANATION OF COLUMNS GIVEN ON PAGE 1.

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

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

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

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



# DAILY WEATHER REPORT.

for *Saturday, 29<sup>th</sup> March, 1890.*  
*Issued by the Meteorological Office, 63, Victoria Street, London. R. H. SCOTT, Secretary.*

STATIONS.	YESTERDAY EVENING.						8 A.M. TO DAY.										PAST 24 HOURS.		
	BAROM.	TEMP.	WIND.		Weather.	Reading at 32° F. and Sea Level.	BAROMETER.		SHADE TEMP.			WIND.		Weather.	Sea. (0 to 9.)	SHADE TEMP.			
	Reading at 32° F. and Sea Level.	Dry.	Dirac.	Force. (0 to 12.)			Reading at 32° F. and Sea Level.	Difference from 8 a.m. yesterday.	Dry.	Wet.	Difference from 8 a.m. yesterday.	Dirac.	Force. (0 to 12.)			Max.	Min.	Amount of Rainfall.	
SCANDINAVIA.																			
Haparanda ...	29.47	35	Z	0	r	29.50	+0.2	36	35	+2	SW	4	0	*	39	30	0.12		
Hernösand ...	29.69	42	NW	4	b	29.73	+0.20	41	38	+4	NW	2	0	*	50	34			
Stockholm ...	29.80	42	W	2	b	29.82	+0.22	38	36	-1	W	2	0	*	52	36			
Wisby ...	29.84	40	WSW	4	b	29.86	+0.19	40	38	+1	W	4	0	*	46	37			
Bodo ...																			
Christiansund ...	29.91	42	SSW	2	r	29.95	+0.15	42	41	0	E	2	r	3	2	41	0.12		
Skudesnaes ...	29.86	45	WNW	2	0	29.82	+0.10	40	39	-2	SW	2	0	2	45	39			
Christiania Fjord (Færdar) ...	29.92	43	W	1	0	29.82	-0.02	42	42	+1	Z	0	0	0	48	41			
Skagen (The Seaw) ...	29.99	42	SW	3	0	29.84	-0.14	42	42	0	S	4	0	*	46	39			
Fanö ...																			
Sumburgh Head ...	29.77	46	SW	1	b	29.64	-0.11	45	44	0	Z	0	0	3	49	40			
Stornoway ...	29.77	49	SW	4	0	29.59	-0.15	47	46	+3	SW	5	0	4	53	41	0.04		
Wick ...	29.82	46	W	1	b	29.66	-0.17	48	46	+4	SW	2	0	1	52	40			
Nairn ...	29.83	48	W	1	0	29.70	-0.13	45	42	+6	Z	0	0	1	55	30	0.01		
Aberdeen ...	29.85	50	SSW	1	0	29.78	-0.14	45	42	-2	SW	1	0	2	53	42			
Leith ...	29.87	47	SW	1	0	29.77	-0.11	45	42	-2	SW	3	0	*	52	43	0.18		
Shields ...	29.89	56	SW	3	0	29.80	-0.12	43	42	-2	W	2	0	2	57	42	0.22		
Spurn Head ...	29.91	55	SSW	3	0	29.76	-0.23	49	48	-1	WNW	3	0	2	62	45			
York ...	29.93	57	W	1	0	29.81	-0.15	45	45	-1	WNW	2	0	*	61	44			
Loughborough ...	29.95	59	SE	1	0	29.85	-0.14	48	47	-1	WNW	3	0	*	63	42			
BRITISH ISLANDS.																			
Ardrossan ...	29.90	47	Z	0	0	29.80	-0.07	46	45	-1	WSW	3	0	2	48	44	0.08		
Malin Head ...	29.88	47	W	4	0	29.77	-0.08	46	44	+1	SW	5	0	3	52	45			
Mullaghmore ...	29.90	49	Z	0	0	29.86	-0.02	46	44	-1	SW	5	0	3	52	43			
Belmullet ...	29.90	49	WSW	2	0	29.88	-0.01	48	46	0	W	5	0	*	51	45			
Donaghadee ...	29.92	47	S	2	r	29.86	-0.03	45	45	-3	SW	3	0	1	53	43	0.16		
Liverpool (Bidston) ...	29.93	51	WNW	1	0	29.89	-0.08	44	43	-1	WNW	4	0	3	60	42	0.01		
Holyhead ...	29.92	47	SSW	4	0	29.92	-0.02	44	44	-3	W	1	0	2	48	42	0.15		
Parsonstown ...	29.92	50	Z	0	r	29.95	+0.06	44	42	-2	Z	0	0	*	53	40	0.07		
Valencia ...	29.95	49	NW	1	0	30.02	+0.09	48	46	-1	Z	0	0	2	50	43			
Roche's Point ...	29.90	50	WNW	3	r	29.99	+0.09	47	44	-2	W	3	0	3	51	40	0.25		
Pembroke (St. Ann's Hd.) ...	29.93	48	S	1	b	29.88	-0.12	45	44	-2	NW	1	0	1	49	43	0.03		
Scilly ...	29.88	49	ENE	3	b	29.99	+0.04	47	46	-2	N	4	0	3	52	47	0.02		
Prawle Point ...	29.94	45	E	1	0	29.98	+0.06	48	48	-1	W	2	0	2	49	44			
Jersey (St. Aubin's) ...	29.97	62	S	3	0	30.04	+0.03	48	47	-2	WSW	4	0	3	62	47			
Hurst Castle ...	29.98	46	ENE	2	b	29.96	-0.12	46	46	-3	W	3	0	2	53	44	0.01		
Dungeness ...	29.98	48	ENE	1	0	29.89	-0.20	48	47	+2	W	4	0	3	51	43			
London ...	29.98	58	S	2	0	29.88	-0.20	52	48	0	S	2	0	*	66	44			
Oxford ...	29.96	53	S	2	0	29.90	-0.17	43	43	-8	SW	4	0	*	63	38			
Cambridge ...	29.98	56	S	1	0	29.85	-0.21	51	49	-2	SW	1	0	*	63	40			
Yarmouth ...	30.00	45	S	2	0	29.80	-0.24	52	50	-1	WSW	3	0	2	59	44			
GERMANY & HOLLAND.																			
Cuxhaven ...	30.09	50	W	2	b	29.92	-0.12	46	45	-3	SSW	2	0	*	55	44			
Berlin ...	30.13	56	WSW	2	b	30.02	-0.11	50	49	-5	SSW	2	0	*	61	46			
Wiesbaden ...	*	*	*	*	*	30.09	-0.14	47	45	-1	Z	0	0	*	66	43			
Munich ...	30.28	51	SE	1	b	30.19	-0.12	48	44	+5	SW	1	0	*	64	37			
The Helder ...	30.03	50	S	1	b	29.84	-0.25	49	47	+2	SSW	2	0	2	52	45			
FRANCE AND BELGIUM.																			
Brussels (9 a.m.) ...	*	*	*	*	*	29.96	-0.21	60	52	+6	SSW	3	0	*	70	34			
Cape Gris Nez ...	*	53	S	1	0	*	*	48	46	-1	WSW	5	0	4	63	46			
Paris ...	30.06	67	SSW	1	b	30.07	-0.12	49	46	+10	S	1	0	*	73	?			
Brest ...	29.87	54	SE	3	0	30.12	+0.15	49	48	-2	W	1	0	4	57	48			
Lorient ...	29.94	55	SSW	4	0	30.06	+0.05	50	49	+1	W	2	0	4	59	48			
SPAIN.																			
Rochefort ...	30.12	65	SSW	3	b	30.15	+0.01	55	54	+5	SW	3	0	*	75	45			
Belfort ...	30.17	52	NW	1	b	30.13	-0.06	50	49	-1	NW	1	0	*	68	39			
Lyons ...	30.17	62	SSW	3	b	30.21	-0.06	48	44	-1	S	1	0	*	71	42			
Nice ...	30.23	57	SW	4	b	30.17	-0.12	56	48	+1	ENE	3	0	1	68	50			
Perpignan ...	30.18	56	NE	2	b	30.20	-0.04	48	48	-7	W	2	0	*	68	41			
Biarritz ...	30.04	73	SSW	3	b	30.08	-0.00	59	50	+2	SW	3	0	2	79	55			
Corunna ...	*	*	*	*	*														
Lisbon ...	*	*	*	*	*														

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

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# WEATHER CHARTS

for 8 a.m. on

Saturday, 29<sup>th</sup> March.

1890.

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### 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.

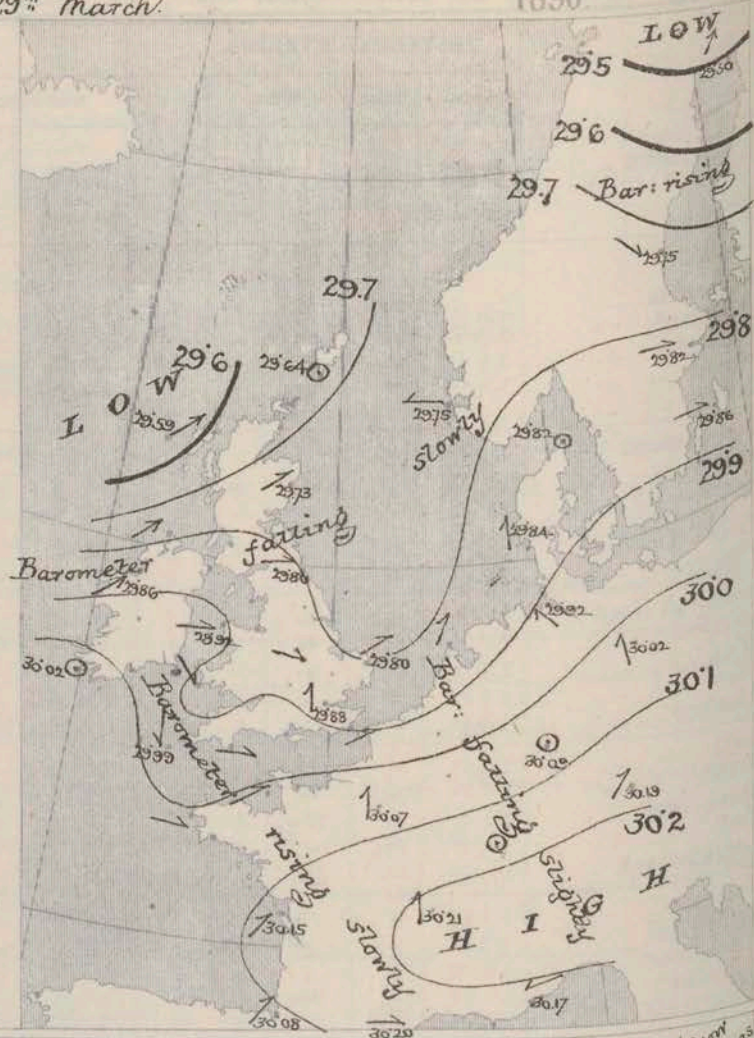
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at 8.0 a.m. for the month of March.  
During the 15 Years: 1871—1885.

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Ardrossan	29.876
Donaghadee	29.892
Holyhead	29.919
Liverpool	29.923
Parsonstown	29.940
Valencia	29.938
Roche's Point	29.941
Pembroke	29.944
Sailly	29.966
Jersey	29.971
Hurst Castle	29.966
Dover	29.955
LONDON	29.967
Oxford	29.966
Cambridge	29.957
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## TEMPERATURE, & WEATHER AT 8 A.M., WITH RAINFALL IN PAST 24 HOURS.

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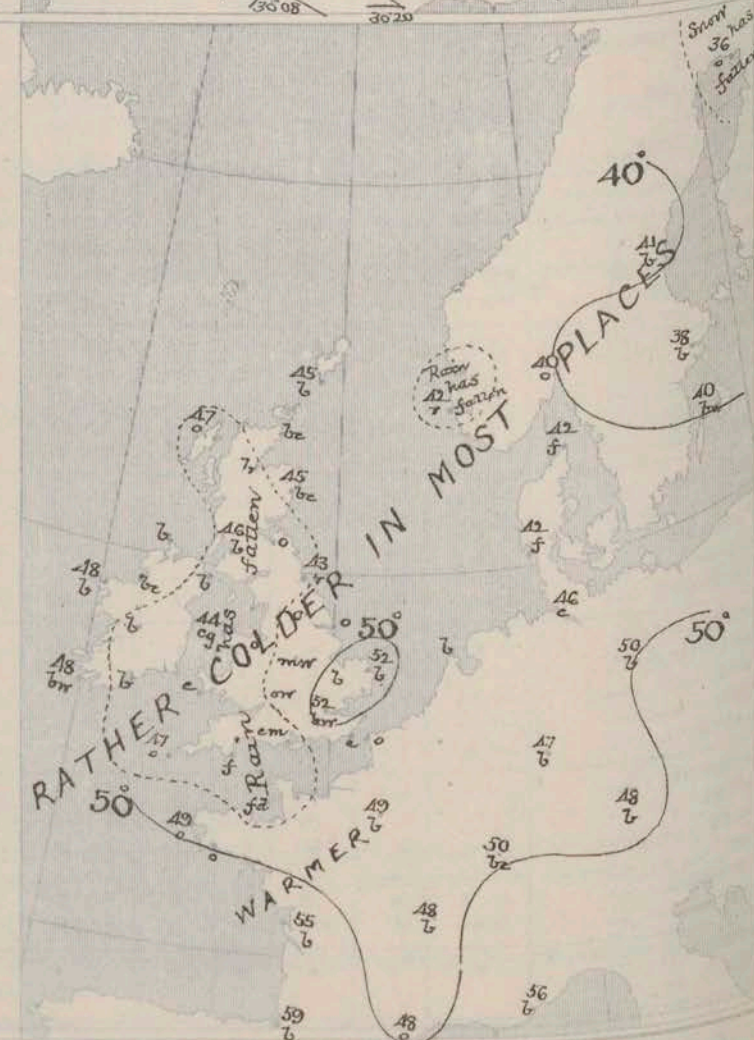
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(For the month of March.)

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	Daily Max.	Daily Min.	at 8 a.m. Dry.	Wet.	
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Nairn	45.6	34.2	38.2	36.3	1.72
Aberdeen	45.4	34.7	38.9	36.8	2.24
Leith	48.2	34.0	39.7	37.9	1.36
Shields	45.9	35.4	39.6	38.0	1.60
York	48.9	33.7	38.0	37.1	1.03
Loughborough	49.5	34.3	39.5	37.7	1.47
Ardrossan	46.8	36.6	40.5	38.7	2.00
Donaghadee	47.3	37.1	41.0	39.7	1.99
Holyhead	47.0	36.2	42.5	41.0	2.21
Liverpool	47.3	37.1	40.8	38.7	1.09
Parsonstown	50.1	35.4	41.2	39.6	2.35
Valencia	51.6	40.6	45.4	43.4	1.24
Roche's Point	50.2	40.0	43.6	42.1	3.71
Pembroke	47.1	39.5	42.6	40.8	2.43
Sailly	49.9	43.0	46.5	44.7	2.38
Jersey	49.9	40.5	44.7	43.7	2.32
Hurst Castle	48.3	37.7	41.0	40.7	1.89
Dover	46.9	37.8	41.6	39.9	1.86
LONDON	50.0	35.8	40.6	38.7	1.43
Oxford	49.5	35.2	39.4	37.9	1.32
Cambridge	50.6	34.2	39.2	37.7	1.34
Yarmouth	45.7	33.8	40.8	39.1	1.77

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





# GENERAL SITUATION AT 8 A.M.

## PRESSURE

Highest, 30.0 in. to 30.2 in. over France and Germany.  
 Lowest, 29.6 in. and less, off the northwest of Scotland.  
 Gradients moderate, but very irregular, owing to shallow local disturbances over the North Sea and England.  
 Barometer unsteady; at Valencia it is falling again.

## TEMPERATURE

Highest, 59° at Biarritz, 56° at Nice, 55° at Rochefort, and 52° in London.  
 Lowest, 36° at Kaparanda, 38° at Stockholm, 40° at Tander, and 43° at Shields.  
 It rose to between 60° and 66° over the inland parts of England yesterday, to 73° at Paris, to 75° at Rochefort, and 79° at Biarritz.

## WIND

Moderate from SW on our northern coast, from NW at our southwestern stations (Calm at Valencia), from the SW<sup>th</sup> over our southern and midland counties, and light from between S. and E. on the eastern shores of the North Sea.

## WEATHER

Very variable, in some places the sky is quite clear, in others cloudy or overcast, rain is falling at Jersey and Shields and fog prevails over the western part of the Channel.

## SEA

Very little disturbed.

## PROBABLE CHANGES IN SYSTEM NOW PREVALENT

Mild but rather changeable weather is still probable, with winds varying from S. to W. and NW.

## FORECASTS

For the 24 hours ending at NOON on 30<sup>th</sup> MARCH 1890.

### DISTRICTS.

### FORECASTS.

### DISTRICTS.

### FORECASTS

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

SW<sup>th</sup> breezes, moderate or fresh; some rain.  
 NW<sup>th</sup> to SW<sup>th</sup> breezes, changeable, some rain with bright intervals.  
 Wind varying between NW and SW; weather changeable, some rain, bright intervals.

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

SW<sup>th</sup> and S<sup>th</sup> winds, freshening; changeable, showery.  
 NW<sup>th</sup> to SW<sup>th</sup> and S<sup>th</sup> winds, freshening changeable, some rain.

Same as Nos 6 and 7.

### WARNINGS

NONE ISSUED.

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



# YESTERDAY'S 2 P.M. REPORTS.

	BAR:	THER:		WIND		WEA.	SEA		BAR:	THER:		WIND		WEA.	SEA
		D.	W.	D.	F.					D.	W.	D.	F.		
Skudesnaes ...	29.94	47	43	SE	2	0	3		Holyhead ...	29.94	48	SE	4	g	4
Sumburgh Head ...	29.78	46	43	W	2	0	4		Valencia ...	29.90	50	W	2	om	2
Stornoway ...	29.76	53	48	W	6	0	5		Scilly ...	29.90	51	E	3	f	4
Aberdeen ...	29.86	51	47	SSW	2	0	2		Jersey ...	30.00	58	SE	3	c	1
Shields ...	29.92	56	53	SW	2	0	2		Dungeness ...	30.04	48	SE	1	f	3
Ardrossan ...	29.90	48	47	SE	1	0	1		London ...	30.01	66	SE	2	b	3
Malin Head ...	29.88	49	47	W	3	0	2		Yarmouth ...	30.03	52	S	3	bc	3
Mullaghmore ...	29.91	51	47	W	2	0	3		Rochefort ...	30.11	68	SE	4	bc	3
Belmullet ...	29.91	51	49	W	3	0	3								

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

Weather dull in many parts of our Islands, with fog over the English and Bristol Channels, and rain on some parts of our western and northern coasts. Fine at most of the Continental stations, but dull in Sweden and North Germany, as well as over the greater part of Spain, and foggy over the Gulf of Finland. Snow reported at Haparanda. Sky clearing later at many of the English stations, but fog continuing over the Channel.

Temperature highest 55° to 60° or a little more over the Mediterranean and the coast of the Iberian Peninsula (Cosenza and Barcelona 62°, Oporto 61°, Malta 60°, Brindisi and Palermo 59°); high, 50° to 54° over the greater part of England and Germany. Lowest, 19° at Archangel, 33° at Kiovia and Moscow, 34° at Haparanda, Uleaborg, Kangerö and Koldingfors, and 37° at St. Petersburg and Hanö. Rising during day to between 60° and 66° over eastern and Central England, and to 70° or more in many parts of France.

Wind moderate from the E. or SE. over the greater part of France and Spain, light from the S. or SW. over our Islands and the Netherlands, moderate to strong from the W. over Denmark, the Baltic, the south of Scandinavia and North Germany. Calm over Finland and the north of Sweden, variable over Russia, Austria, Italy, and Algeria. Subsequently shifting to the E. in the extreme south of England.

Barometer highest, 30.3 ins. and upwards, over Switzerland and the north of Italy, high 30.2 ins. and upwards over nearly the whole of Central and Southern Europe, and the greater part of the Mediterranean. Lowest, 29.5 ins. and less, in a large area lying over the north of Scandinavia, and also in two small depressions lying over Finland and the Baltic Provinces; low 29.9 ins. and less, in a shallow disturbance lying to the westward of Portugal. Small depressions advancing later from the S. to the mouth of the Channel.

### EXPLANATION OF COLUMNS GIVEN ON PAGE 1.

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

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

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

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



# DAILY WEATHER REPORT.

for Sunday 30<sup>th</sup> March

1890.

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

Issued by the Meteorological Office, 63, Victoria Street, London. R. H. SCOTT, Secretary.																		
STATIONS.	YESTERDAY EVENING.					8 A.M. TO DAY.										PAST 24 HOURS.		
	BAROM.  Reading at 32° F. and Sea Level.	TEMP.  Dry.	WIND.		Weather.	BAROMETER.		SHADE TEMP.			WIND.		Sea. (0 to 6.)	SHADE TEMP.				
			Force. (0 to 12.)	Dirce.		Reading at 32° F. and Sea Level.	Difference from 8 a.m. yesterday.	Dry.	Wet.	Difference from 8 a.m. yesterday.	Dirce.	Force. (0 to 12.)		Weather.	Max.	Min.	Amount of Rainfall.	
SCANDINAVIA.																		
Haparanda ...	29.54	30	Z	0	b	29.47	- .03	25	24	- 11	N	2	b	*	39	28	-	
Hernösand ...	29.58	40	SE	2	r	29.08	- .74	39	37	+ 1	S	2	r	*	41	32	0.24	
Stockholm ...	29.50	44	SSE	4	r	29.27	- .59	40	38	0	N	6	b	*	50	36	0.16	
Wishby ...	29.57	36	NE	2	r	29.50	- .11	38	37	- 1	Z	0	c	1	48	34	0.16	
Bodö ...	29.52	43	NE	2	c	29.56	- .16	41	40	- 2	WSW	2	f	2	48	37	0.02	
Christiansund ...	29.52	41	WNW	4	0	29.60	- .15	42	41	0	NNE	1	bc	2	45	37	0.51	
Skudesnaes ...	29.32	40	SSE	2	f	29.41	- .41	41	38	+ 1	NN	5	0	4	?	36	0.75	
Christiania Fjord (Færder)	29.40	40	W	8	b	29.46	- .36	41	40	- 1	W	6	b	4	46	39	-	
Skagen (The Scaw)	29.76	41	WSW	5	b	29.75	- .09	44	43	+ 2	W	5	b	*	50	41	-	
Fanö ...	29.80	43	Z	0	r	29.60	- .04	42	41	- 3	NNW	3	r	3	50	40	0.21	
Sumburgh Head	29.61	47	W	5	bc	29.89	+ .30	43	42	- 4	NW	6	c	6	50	35	0.12	
Stornoway ...	29.56	44	NNW	4	bc	29.76	+ .10	42	40	- 6	NW	4	bc	3	52	36	0.12	
Wick ...	29.64	47	W	1	bc	29.85	+ .15	39	36	- 6	W	3	b	2	53	35	0.04	
Nairn ...	29.64	50	SW	4	bc	29.86	+ .13	43	38	- 2	W	5	bc	3	56	38	0.01	
Aberdeen ...	29.75	47	WSW	4	bc	29.93	+ .16	46	41	+ 1	W	4	b	*	54	43	0.02	
Leith ...	29.82	51	W	3	c	29.95	+ .15	48	45	+ 5	SW	4	bc	*	54	43	-	
Shields ...	29.90	49	W	4	bc	30.00	+ .24	45	43	- 4	W	4	bc	3	51	41	-	
Spurn Head ...	29.93	51	W	3	bc	30.02	+ .21	49	45	+ 4	W	3	b	*	56	40	-	
York ...	29.99	53	WNW	3	bc	30.09	+ .24	46	44	- 2	WNW	3	bc	*	59	39	-	
Loughborough ...	29.80	49	NNW	3	bc	30.00	+ .20	45	42	- 1	WNW	2	b	1	50	43	0.01	
Ardrrossan ...	29.85	47	W	6	bc	30.05	+ .28	44	42	- 2	N	4	0	2	51	44	0.03	
Malin Head ...	29.97	49	WSW	5	bc	30.10	+ .24	47	45	+ 1	N	5	0	3	52	42	0.02	
Mullaghmore ...	30.02	50	W	2	b	30.13	+ .25	47	46	- 1	N	1	0	*	52	41	0.01	
Belmullet ...	29.92	50	WNW	4	c	30.07	+ .21	46	45	+ 1	NNW	3	b	2	55	43	0.02	
Donaghadee ...	29.98	50	W	3	b	30.08	+ .19	46	44	+ 2	W	5	b	3	52	42	-	
Liverpool (Bidston)	29.99	48	SW	4	b	30.09	+ .17	30	47	+ 6	W	2	bc	2	51	42	-	
Holyhead ...	30.04	51	SW	1	b	30.13	+ .18	37	36	- 4	Z	0	b	*	55	35	-	
Parsonstown ...	30.09	52	WNW	1	bc	30.12	+ .10	43	42	- 5	Z	0	bc	1	54	37	-	
Valencia ...	30.00	52	SW	2	c	30.12	+ .13	43	41	- 4	NNW	1	b	3	55	37	-	
Roche's Point...	30.07	47	NNW	2	b	30.12	+ .24	43	43	- 2	ESE	2	fw	2	50	39	-	
Pembroke (St. Ann's Hd.)	30.07	49	NNE	3	b	30.07	+ .08	48	45	+ 1	ENE	4	b	3	51	45	-	
Scilly ...	30.08	51	NNE	1	b	30.11	+ .13	50	45	+ 2	NNE	3	b	2	53	39	-	
Prawle Point ...	30.10	50	W	4	bc	30.11	+ .07	49	47	+ 1	E	3	cm	3	53	46	-	
Jersey (St. Aubin's)	30.06	52	WNW	3	b	30.13	+ .14	47	46	+ 1	WNW	2	bc	0	52	35	0.01	
Hurst Castle ...	30.00	47	W	4	f	30.09	+ .20	43	42	- 5	N	2	m	1	51	35	-	
Dungeness ...	30.04	52	NNW	1	bc	30.10	+ .22	42	40	- 10	W	1	bc	*	56	35	-	
London ...	30.07	46	W	1	b	30.12	+ .22	40	39	- 3	WSW	2	bc	*	56	35	0.01	
Oxford ...	30.01	51	WNW	1	b	30.10	+ .25	46	43	- 5	W	1	b	*	60	38	-	
Cambridge ...	29.95	48	NNE	1	bc	30.05	+ .25	47	45	- 5	W	3	b	3	57	37	-	
Yarmouth ...	29.81	45	WNW	5	c	29.91	- .01	43	42	- 3	W	5	b	*	64	43	-	
Cuxhaven ...	29.82	65	W	3	b	29.99	- .03	47	43	- 3	WNW	4	b	*	72	43	-	
Berlin ...	*	*	*	*	*	30.10	+ .01	50	47	+ 3	NNW	1	0	*	72	46	-	
Wiesbaden ...	30.09	57	WSW	2	b	30.12	- .07	51	46	+ 3	SW	1	b	*	68	45	-	
Munich ...	29.99	44	W	1	b	30.02	- .18	44	43	- 5	WSW	2	b	3	54	43	-	
The Helder ...	30.12	47	46	- 13	NNW	1	0	*	66	45	-							
Brussels (9 a.m.)	?	45	SW	5	f	?	?	41	41	- 7	SSW	1	f	0	52	39	-	
Cape Gris Nez	30.05	61	NNW	2	bc	30.13	+ .06	47	46	- 2	NE	2	0	*	75	47	-	
Paris ...	?	53	Z	0	0	?	?	44	48	0	E	2	0	3	87	46	0.04	
Brest ...	30.03	50	WNW	1	f	30.04	- .02	49	48	- 1	ENE	3	c	4	85	46	-	
Lorient ...	30.09	58	NNW	3	bc	30.05	- .10	51	50	- 4	E	3	b	2	72	45	-	
Rochefort ...	29.71	52	NNW	1	b	30.09	- .04	50	40	0	NNW	1	b	*	73	39	-	
Belfort ...	30.06	64	SSW	1	b	30.10	- .11	49	45	+ 1	SSE	1	b	*	72	43	-	
Lyons ...	30.08	59	E	1	b	30.09	- .08	50	48	- 6	W	1	b	0	68	48	-	
Nice ...	30.11	54	NE	1	0	30.09	- .11	52	51	+ 4	Z	0	0	*	59	45	-	
Perpignan ...	30.01	60	NE	3	c	29.98	- .10	57	49	- 2	ESE	3	b	2	68	50	-	
Biarritz ...	*	*	*	*	*	29.92	- .11	58	54	0	NNW	1	0	4	64	46	-	
Corunna ...	29.84	63	SW	3	0	29.87	- .11	55	53	+ 2	ESE	4	0	?	70	50	0.04	
Lisbon ...																		

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

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



# WEATHER CHARTS

for 8 a.m. on

Sunday, 30<sup>th</sup> March,

1890.

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 backs 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:

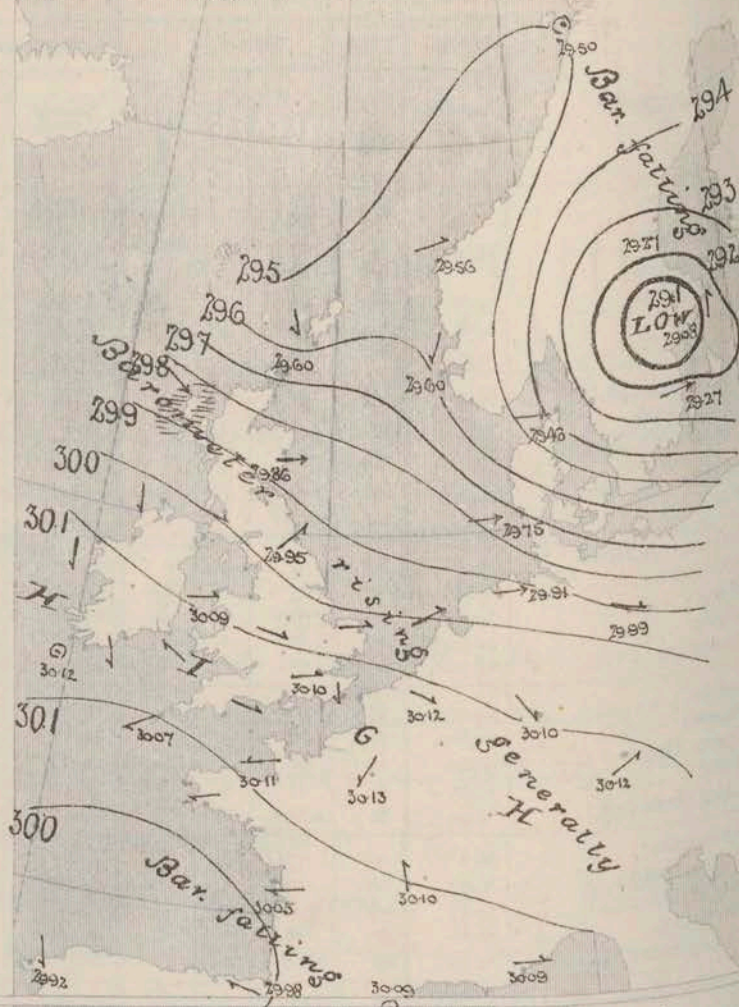
⊙ = Rough, ⊙ = High.

## MEAN HEIGHT OF THE BAROMETER

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

During the 15 Years: 1871—1885.

STATIONS.	MEAN READINGS.
Sumburgh Head	29.751
Stornoway	29.779
Wick	29.797
Nairn	29.815
Aberdeen	29.830
Leith	29.862
Shields	29.896
York	29.925
Loughborough	29.948
Ardrossan	29.870
Donaghadee	29.892
Holyhead	29.919
Liverpool	29.925
Parsonstown	29.940
Valencia	29.938
Roche's Point	29.941
Pembroke	29.944
Sally	29.905
Jersey	29.971
Hurst Castle	29.966
Dover	29.955
LONDON	29.967
Oxford	29.966
Cambridge	29.947
Yarmouth	29.938



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

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

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

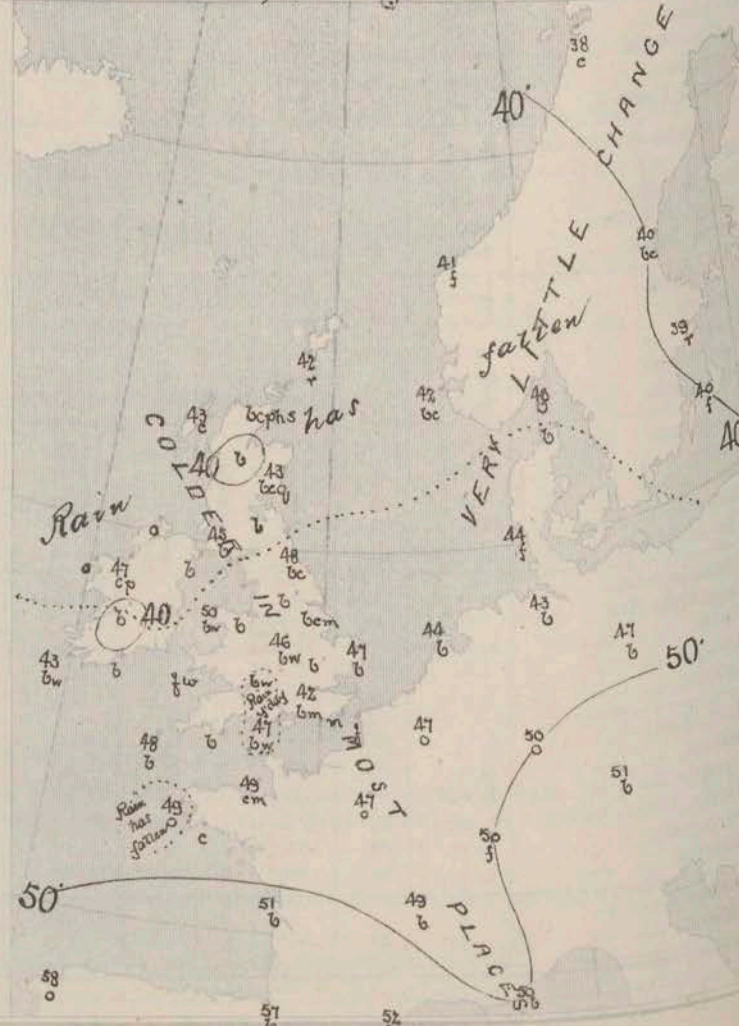
**RAINFALL**—A dotted line separates the districts in which rain has fallen from those where there has been none. Falls of 0.5 in. or more, are quoted in fancies.

## MEANS OF TEMPERATURE IN SHADE, AND RAINFALL.

(For the month of March.)

STATIONS.	TEMPERATURE.				RAINFALL (Inches.)
	Daily Max.	Daily Min.	at 8 a.m.	at 4 p.m.	
Sumburgh Head	42.6	34.0	38.5	37.1	2.82
Stornoway	41.9	34.4	38.2	38.0	3.87
Wick	41.7	33.9	39.1	37.2	1.97
Nairn	45.6	34.2	38.2	36.8	1.72
Aberdeen	45.4	31.7	38.0	36.8	2.21
Leith	48.2	34.6	39.7	37.9	1.30
Shields	45.9	33.4	39.6	38.0	1.80
York	48.9	33.7	39.5	37.4	1.63
Loughborough	49.4	34.3	39.5	37.7	1.47
Ardrossan	49.8	36.6	40.5	38.7	2.52
Donaghadee	47.3	37.1	41.0	39.7	1.00
Holyhead	47.6	39.2	42.5	41.0	2.21
Liverpool	47.3	37.1	40.8	38.7	1.69
Parsonstown	50.1	35.5	41.2	39.6	2.35
Valencia	51.0	40.6	43.4	43.4	1.24
Roche's Point	50.2	40.0	43.8	42.1	3.71
Pembroke	47.1	39.5	42.6	40.8	2.46
Sally	49.9	40.0	46.5	44.7	2.38
Jersey	49.9	40.5	44.7	42.7	2.32
Hurst Castle	48.3	37.7	41.0	40.7	1.80
Dover	46.0	37.8	41.0	39.9	1.83
LONDON	50.6	35.5	40.6	39.7	1.43
Oxford	49.6	35.2	39.4	37.0	1.32
Cambridge	50.0	35.2	39.2	37.7	1.63
Yarmouth	45.7	35.4	40.8	39.1	1.77

NOTE: The Temperature means are for the 15 years 1871-1885, the Rainfall means are mainly those for the 20 years 1860-85.





# GENERAL SITUATION AT 8 A.M.

## PRESSURE

Highest, 30.0 in: to 30.1 in: and more, in a broad high-pressure band spreading across Ireland and England to France, Germany and the Baltic.  
Lowest, 29.1 in: and less, in a depression the centre of which lies near Stockholm, 29.9 in: and less, over the southwest of Portugal.

Gradients moderate over eastern shore of the North Sea and Scotland, slight elsewhere.

Barometer rising over our islands and north of France, falling over Spain and southwest of France.

## TEMPERATURE

Highest, 58° at Corunna, 57° at Biarritz, 55° at Lisbon, 51° at Rockport, 50° at Howe Point, 49° at York.

Lowest, 37° at Copenhagen, 35° at Stockholm, 40° at Oxford, 41° at Christianund and Gothen, and 42° at Sumburg Hk.

The daily maxima recorded over the British Islands yesterday varied from 50° to 60°; 72° was recorded at Berlin, 75° at Paris. Heat frost occurred in the early morning.

## WIND

Fresh to strong and squally from NW. over North Britain.

Moderate W. over England (as a whole), the North Sea, and south of Sweden.

Light E. in the east of France and at the mouth of the Channel.

Calm at Valencia — Variable over Central France.

## WEATHER

Squally changeable and unsettled in the far north, with showers of sleet and hail in places.

Clear and bright in most other places, but foggy at some southern stations. Rainfall yesterday was slight and confined to Scotland and Ireland.

Heavy dew fell over England in night.

## SEA

Rough at Stromsund only, moderates off the south of Norway, slight or smooth elsewhere.

## PROBABLE CHANGES IN SYSTEM NOW PREVALENT

## FORECASTS

For the 24 hours ending at NOON on 31<sup>st</sup> March 1890.

### DISTRICTS.

### FORECASTS.

### DISTRICTS.

### FORECASTS

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

NONE ISSUED

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

NONE ISSUED.

### WARNINGS

NONE ISSUED.

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



# YESTERDAY'S 2 P.M. REPORTS.

	BAR:	THER:		WIND		WEA.	SEA		BAR:	THER:		WIND		WEA.	SEA
		D.	W.	D.	F.					D.	W.	D.	F.		
Skudesnaes ...	29.54	44	43	ENE	1	rf	3	Holyhead ...	29.98	51	48	SW	4	b	3
Sumburgh Head ...	29.55	47	45	SSE	1	c	3	Valencia ...	30.08	54	50	WNW	3	b	3
Stornoway ...	29.65	50	47	W	5	c	4	Scilly ...	30.06	50	48	N	3	bc	4
Aberdeen ...	29.63	50	46	SW	4	bcg	2	Jersey ...	30.11	51	49	W	5	o	3
Shields ...	29.80	52	47	WSW	4	bc	2	Dungeness ...	29.96	49	47	W	4	o	3
Ardrossan ...	29.80	50	47	WSW	4	c	3	London ...	29.94	51	49	W	2	m	3
Malin Head ...	29.80	51	49	WSW	6	bc	4	Yarmouth ...	29.91	51	48	NW	3	b	2
Mullaghmore ...	29.92	51	47	WSW	6	bc	4	Rochefort ...	30.15	70	64	SSE	3	b	
Belmullet ...	29.97	51	49	W	5	o	*								

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

Weather fine and bright over Southeastern, Southern, Central and nearly the whole of Western Europe, cloudy changeable, and unsettled in the northwest, north, and northeast, with rain in several places and snow over Finland. Rainfall slight in the northwest and north later, and also over Poland, no measurable quantity elsewhere.

Temperature risen over Spain, France, Ireland, and Southern Russia, fallen, as a rule, in other places, but changing fitfully in the northwest, as a whole. Morning values varying from 50° to 64° over Southern and Southwestern Europe, below 50° over the United Kingdom, and below 40° over Northern Europe. No frost (in shade) at that hour. Daily maxima ranging from 60° to 70° and more over Southern Europe and Algeria, and ranging between 50° and 59° over the inland parts of the British Isles; succeeding night cold inland.

Wind as a whole SW<sup>3</sup>, but varying locally between SE and W. over the United Kingdom and Northwestern Europe. Very light and variable in other places, but drawing generally into E. and SE. over Spain. Becoming more W<sup>3</sup> in the north of our Islands later and S<sup>3</sup> (light) over the Baltic, W<sup>3</sup> in Germany.

Barometer highest, 30.1 ins. and more, over Southern and Southeastern Europe, with the Mediterranean, and exceeding 30.2 ins. over some parts of Algeria; lowest 29.5 ins. and less over Lapland, and 29.6 ins. and less off the northwest of Scotland. Shallow local disturbances observed over the North Sea and England. Latter disturbances passing eastwards later, and high pressure band forming over the southwest of our Islands, Brittany and France.

### EXPLANATION OF COLUMNS GIVEN ON PAGE 1.

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

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

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

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



# DAILY WEATHER REPORT.

for *Monday, 31<sup>st</sup> March,* 1890.

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

Issued by the Meteorological Office, 63, Victoria Street, London. R. H. SCOTT, Secretary.																		
STATIONS.	YESTERDAY EVENING.					8 A.M. TO DAY.										PAST 24 HOURS.		
	BAROM.	TEMP.	WIND.		Weather.	BAROMETER.		SHADE TEMP.			WIND.		Weather.	Sea. (0 to 12.)	SHADE TEMP.		Amount of Rainfall.	
			Reading at 32° F. and Sea Level.	Dry.		Dirce.	Force. (0 to 12.)	Reading at 32° F. and Sea Level.	Difference from 8 a.m. yesterday.	Dry.	Wet.	Difference from 8 a.m. yesterday.			Dirce.	Force. (0 to 12.)		Max.
SCANDINAVIA.																		
Haparanda ...														*				
Hernösand ...														*				
Stockholm ...	29.54	34	NW	4	0	29.69	+ .61	39	36	0	W	2	b	*	41	32	0.04	
Wisby ...	29.56	37	W	6	0	29.73	+ .46	37	36	- 3	NW	6	c	*	?	?	-	
Bodo ...	29.62	37	NNE	2	b	29.75	+ .25	31	28	- 7	SE	2	b	1	41	30	-	
Christiansund ...	29.70	41	WNW	3	r	29.96	+ .40	39	37	- 2	WSW	3	r	4	45	37	0.16	
Skudesnaes ...	29.81	41	NW	4	bc	30.02	+ .42	42	40	0	NNW	6	bc	4	45	36	-	
Christiania Fjord (Færd)																		
Skagen (The Scaw)	29.70	39	NW	1	b	29.86	+ .40	40	39	- 1	NW	1	b	1	46	36	-	
Panö ...	29.86	38	W	4	b	29.99	+ .24	42	41	- 2	NW	4	b	*	46	37	0.20	
Sumburgh Head	29.97	43	N	3	c	30.24	+ .64	37	35	- 5	N	2	o	3	49	34	0.04	
Stornoway ...	30.12	46	NW	4	c†	30.29	+ .40	38	32	- 10	Z	0	bc	3	48	32	0.04	
Wick ...	30.10	42	N	2	c	30.31	+ .55	40	37	- 3	NE	2	o	2	47	36	0.06	
Nairn ...	30.09	46	W	1	bc	30.31	+ .46	41	39	+ 2	ESE	1	c	1	51	38	0.01	
Aberdeen ...	30.07	46	NW	5	bc	30.31	+ .45	41	39	- 2	NW	2	bc†	3	50	37	0.02	
Leith ...	30.07	49	W	3	b	30.30	+ .37	39	38	- 7	W	1	c†	*	56	31	-	
Shields ...	30.06	53	NW	2	bc	30.28	+ .33	43	43	- 3	NNW	2	c	2	55	35	-	
Spurn Head ...	30.08	45	NNE	1	bc	30.26	+ .26	45	44	0	NNW	2	cm	3	53	40	-	
York ...	30.08	53	NW	1	b	30.29	+ .27	42	41	- 7	N	1	c	*	57	33	-	
Loughborough	30.11	52	WNW	3	b	30.29	+ .20	38	37	- 8	Z	0	bm†	*	57	30	-	
BRITISH ISLANDS.																		
Ardrossan ...	30.12	50	WNW	4	b	30.29	+ .29	43	40	- 2	NE	2	b†	1	51	34	-	
Malin Head ...	30.18	48	N	2	b	30.29	+ .24	42	41	- 2	SSW	1	c	1	48	39	-	
Mullaghmore ...	30.16	49	NW	2	b†	30.28	+ .18	41	39	- 6	ESE	5	b	2	52	39	-	
Belmullet ...	30.17	49	ESE	2	b	30.25	+ .12	44	43	- 3	E	2	b	*	53	40	-	
Donaghadee ...	30.17	47	NNE	3	b	30.29	+ .22	42	41	- 4	NNE	2	b	0	50	41	-	
Liverpool (Bidston)	30.14	46	WNW	2	b	30.28	+ .20	41	39	- 5	SE	2	b†	2	50	37	-	
Holyhead ...	30.15	47	NNW	1	b	30.25	+ .16	44	43	- 6	NE	1	b†	1	53	41	-	
Parsonstown ...	30.13	53	Z	0	b	30.26	+ .13	39	38	+ 2	Z	0	b	*	57	32	-	
Valencia ...	30.10	52	SE	3	bc	30.20	+ .08	43	43	+ 5	Z	0	bc	1	58	37	-	
Roche's Point...	30.12	50	ESE	3	b	30.22	+ .10	45	42	+ 2	E	3	b	4	52	38	-	
Pembroke (St. Ann's Hd.)	30.14	47	NNE	2	b	30.22	+ .10	43	40	0	NE	2	b	1	48	39	-	
Scilly ...	30.07	50	ESE	4	bc	30.10	+ .03	49	46	+ 1	E	5	bc	3	53	46	-	
Prawle Point...	30.10	48	E	2	b	30.18	+ .07	48	45	- 2	ESE	5	bm	3	56	41	-	
Jersey (St. Aubin's)	30.06	54	ESE	3	bcm	30.14	+ .03	48	44	- 1	NE	4	bm	3	57	45	-	
Hurst Castle ...	30.10	50	SSW	1	b	30.21	+ .08	45	43	- 2	NE	3	bm	1	57	40	-	
Dungeness ...	30.07	48	SSW	2	m	30.20	+ .11	47	43	+ 4	ESE	3	b	1	51	42	-	
London ...	30.09	57	WSW	1	b	30.24	+ .14	46	40	+ 4	ESE	2	b†	*	60	37	-	
Oxford ...	30.15	46	W	1	b	30.27	+ .15	40	38	0	N	1	bw	*	59	33	-	
Cambridge ...	30.14	49	NW	1	b	30.38	+ .28	43	41	- 3	N	1	o	*	61	30	-	
Yarmouth ...	30.06	53	Z	0	bc†	30.22	+ .17	43	42	- 4	NNE	3	c	3	56	38	-	
GERMANY.																		
Cuxhaven ...	29.94	53	WNW	5	bc	30.04	+ .13	41	39	- 2	NNW	5	bc	*	49	41	-	
Berlin ...	29.92	51	WNW	3	b	30.07	+ .08	41	38	- 6	WNW	4	o	*	64	37	-	
Wiesbaden ...	*	*	*	*	*	30.14	+ .04	44	38	- 6	N	3	b	*	63	37	-	
Munich ...	30.02	53	NE	1	b	30.08	+ .04	46	43	- 5	NE	5	c	*	66	45	-	
The Helder ...	30.08	43	WNW	2	b	30.17	+ .15	41	40	- 3	N	3	c	3	46	41	-	
FRANCE AND BELGIUM.																		
Brussels (9 a.m.)	*	*	*	*	*	?	?	43	40	+ 2	NE	1	m	*	54	39	-	
Cape Gris Nez	?	49	SE	1	m			43	41	- 2	NE	2	b	*	?	42	-	
Brest ...	30.09	56	NNE	2	bc	30.13	+ .00	45	46	- 3	ESE	4	b	0	54	45	-	
Lorient ...	29.97	55	ESE	3	b	30.04	?	46	47	0	E	4	b	1	66	48	-	
Rochefort ...	29.99	60	Z	0	b	30.00	+ .04	49	47	0							-	
Belfort ...	30.00	63	NW	3	b	30.00	+ .05	50	50	- 1	ESE	4	b	*	72	43	-	
Lyons ...	30.04	62	NW	1	b	30.01	+ .08	50	41	0	SE	1	b	*	73	45	-	
Nice ...	29.96	61	SEE	2	b	30.01	+ .09	47	45	- 2	SEE	1	b	*	71	42	-	
Perpignan ...	30.05	51	SSW	4	bc	30.00	+ .09	47	47	- 3	ESE	3	g	1	61	46	-	
Biarritz ...	30.00	54	E	1	b	29.99	+ .10	52	50	0	Z	0	o	*	63	42	-	
Corunna ...	29.89	61	NNE	3	b	29.87	+ .11	61	52	+ 4	SW	3	bc	2	75	52	-	
Lisbon ...	*	*	*	*	*	29.82	+ .05	53	51	- 2	N	2	bc	3	61	50	0.24	

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

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



# WEATHER CHARTS

for 8 a.m. on Monday, 31<sup>st</sup> March.

1890.

## 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:

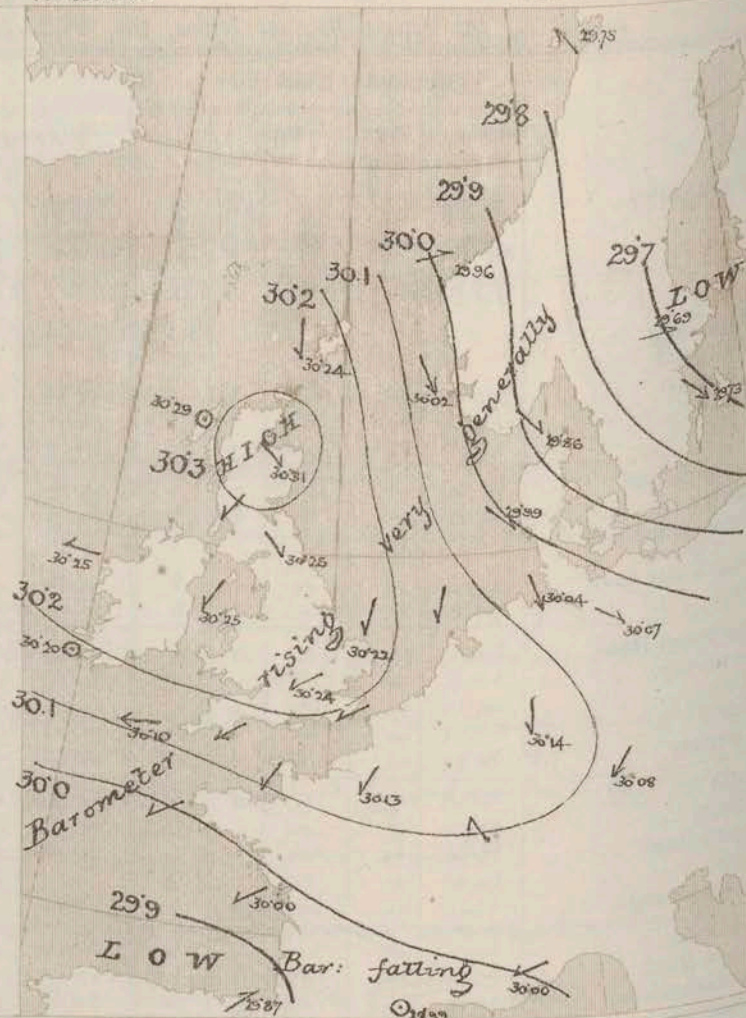
■ = Rough ■ = High.

## MEAN HEIGHT OF THE BAROMETER

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

During the 15 Years: 1871—1885.

STATIONS.	MEAN READINGS.
Sumburgh Head	29.751
Stornoway	29.779
Wick	29.797
Nairn	29.815
Aberdeen	29.830
Leith	29.862
Shields	29.896
York	29.925
Loughborough	29.948
Arrossan	29.876
Donaghadee	29.892
Holyhead	29.919
Liverpool	29.925
Parsonstown	29.910
Valencia	29.938
Roche's Point	29.941
Pembroke	29.944
Selly	29.966
Jersey	29.971
Hurst Castle	29.966
Dover	29.955
LONDON	29.967
Oxford	29.986
Cambridge	29.967
Yarmouth	29.938





# GENERAL SITUATION AT 8 A.M.

## PRESSURE

Highest, 30.3 in: and upwards, over Scotland; 30.2 in: and upwards, in an anticyclone lying over our Islands and the neighbouring part of the North Sea.  
Lowest, 29.7 in: and less, in Sweden.

Gradients slight generally. Barometer rising at all but the southern French stations.

## TEMPERATURE

Highest, 61° at Rixivitz, 53° at Diebon, 52° at Perpignan, 50° at Belfast and Rochefort, and 49° at Seilly and Lorient.

Lowest, 33° at Stormway, 37° at Miesy and Sumburg Ht., 38° at Loughborough, 39° at Stockholm, Leith, and Harrogate, and 40° at Solign, Misk and Oxford.

Frost occurred last night at several of our more central stations; in London the thermometer on the grass fell to 26°.

## WIND

Slight from the N<sup>W</sup> or N<sup>W</sup>W<sup>d</sup> on the east coasts of Great Britain, moderate to strong from the same quarter in the eastern shore of the North Sea.  
E<sup>W</sup> or NE<sup>W</sup> over France and the west and south of our Islands; fresh in force at the mouth of the Channel.

## WEATHER

Fine generally, but with fog or mist in places, and showers at Aberdeen.

A little rain fell yesterday in the extreme north of Scotland.

## SEA

Slight or smooth generally.

## PROBABLE CHANGES IN SYSTEM NOW PREVALENT

There are at present no indications of any decided change in the weather. The anticyclone over our Islands appears to be extending eastwards.

# FORECASTS

For the 24 hours ending at NOON on 1<sup>st</sup> April 1890.

## DISTRICTS.

## FORECASTS.

6 SCOTLAND  
NORTH

Variable or N<sup>W</sup> airs; fair generally.

1 SCOTLAND  
EAST

2 ENGLAND  
N.E.

3 ENGLAND  
EAST

4 MIDLAND  
COUNTIES

5 ENGLAND  
SOUTH

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

NE<sup>W</sup> winds, light; fair generally, cold at night with local fogs.

## DISTRICTS.

## FORECASTS

6 SCOTLAND  
WEST

Light breezes, chiefly NE<sup>W</sup>; fine generally, but local fogs.

7 ENGLAND  
N.W.

8 ENGLAND  
S.W.

E<sup>W</sup> and NE<sup>W</sup> winds, light; fine generally.

9 IRELAND  
NORTH

Light breezes, chiefly E<sup>W</sup>; fine generally.

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		WEA.	SEA		BAR:	THER:		WIND		WEA.	SEA
		D.	W.	D.	F.					D.	W.	D.	F.		
Skudesnaes ...	29.70	45	42	rw	5	bc	3		Holyhead ...	30.15	50	48	rw	1	6
Sumburgh Head									Valencia ...						
Stornoway ...	30.03	46	45	rw	4	c	4		Scilly ...						
Aberdeen ...									Jersey ...	30.08	56	53	rw	3	c
Shields ...									Dungeness ...	30.07	49	47	ssw	3	m
Ardrossan ...									London ...						
Malin Head ...	30.15	47	43	m	2	c	2		Yarmouth ...						
Mullaghmore ...									Rochefort ...	30.03	68	60	ssw	1	6
Belmullet ...	30.16	51	49	m	3	c	*								

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

Weather fine and bright over the western and southern parts of the British Islands, as well as over the Mediterranean, France, Germany, Austria and many of the more southern parts of Russia, changeable and unsettled over Scotland and northern Europe, with showers of rain, sleet and hail in several places. Rainfall (rain, snow and hail) confined to the northern districts during day.

Temperature changing little as a whole, but diurnal range considerable over northwestern Europe. Morning readings ranging from 50° to 64° at the Mediterranean stations and in the north and west of Spain, and from 50° to 60° over a great deal of central Europe; below 50° over the United Kingdom, below 40° over the greater part of northern Europe, and at Moscow, and as low as 28° at Uleaborg, and 32° at St. Petersburg. Rising to between 55° and 60° over the inland parts of Ireland and England later, to 64° at Berlin, and 72° to 75° in the southwest of France.

Wind moderate to strong from W. over the Baltic, Germany, the eastern shores of the North Sea and greater part of England, NW<sup>4</sup> to N<sup>3</sup> in Ireland and Scotland. Very light and variable over Eastern, central, and southern Europe and E<sup>4</sup> over the Bay of Biscay and western parts of the Channel. E<sup>4</sup> wind on our southwest coasts, showing a tendency to spread northeastwards later.

Barometer highest 30.1 ins. and more in an elongated area stretching from Ireland across the southwest and south of England to the northeast of France, south Germany, and Switzerland and 30.0 ins. and more over southern and southeastern Europe and the Mediterranean, lowest 29.1 ins. and less in the central part of a well marked depression lying near Stockholm. Gradients slight except over Denmark and the Baltic. Depression passing eastward, later, barometer rising over northwestern Europe, and anticyclonic system forming over the United Kingdom and its neighbourhood.

### SUMMARY OF CHANGES IN THE WEATHER OVER THE BRITISH ISLANDS AND THEIR NEIGHBOURHOOD FROM THE 23<sup>RD</sup> TO THE 29<sup>TH</sup> MARCH 1890

In the course of this week pressure has been highest over southern and southeastern Europe, and a considerable number of depressions have passed over the United Kingdom and its neighbourhood from the westward or south-westward. By those experienced during the earlier part of the week some were large and rather deep, but the primary disturbances kept outside our extreme western coasts, while their secondaries travelled more directly over the Kingdom. The weather was consequently unsettled and showery - rain falling daily, but not heavily, at almost all stations.

After Wednesday the disturbances though frequent were much less deep; on Friday and Saturday they were very similar to the "thunderstorm" depressions of Summer. The winds decreased in force, and became more variable in direction, temperature rose decidedly, the rains ceased in most places, while the amount of bright sunshine increased.

The week closed with fair weather in nearly all districts, the night-temperatures were low, but the days mild and pleasant.

### EXPLANATION OF COLUMNS GIVEN ON PAGE 1.

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

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# ADDITIONS AND CORRECTIONS TO THE

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

DATE.	STATIONS.	YESTERDAY EVENING.						8 A.M. TO-DAY.										PAST 24 HOURS.		
		Barometer at 32° F. and Sea Level.	Temp. in Shade.	WIND.		Weather.	BAROMETER.		SHADE TEMP.			WIND.		Weather.	Sea (0 to 9.)	SHADE TEMP.		Amount of Rainfall.		
				Direc.	Force (0 to 12.)		Reading at 32° F. and Sea Level.	Difference from 8 a.m. yesterday.	Dry.	Wet.	Difference from 8 a.m. yesterday.	Direc.	Force (0 to 12.)			Max.	Min.			
1	Perpignan.....	29.94	29	NW	5	b	29.97	-	37	-	-	NW	6	b	2	40	26	-		
"	Corunna.....	*	*	*	*	*	30.21	+05	41	38	-5	NE	5	c	4	48	37	-		
"	Lisbon.....	29.91	48	NE	5	b	30.01	+13	36	30	-6	NE	5	b	?	54	36	-		
2	The Helder.....	30.02	32	NE	2	b	30.21	+24	24	-	-9	ENE	5	b	4	?	?	0.04		
3	Corunna.....	*	*	*	*	*	30.12	+11	42	39	+1	?	7	b	6	48	36	0.47		
4	Corunna.....	*	*	*	*	*	30.14	+02	35	-	-7	NE	7	s	6	?	32	-		
5	Corunna.....	*	*	*	*	*	30.26	+12	39	36	+4	NE	1	o	3	41	28	-		
"	Lisbon.....	29.87	41	N	4	b	29.99	+09	39	35	+4	NHE	6	o	?	45	?	-		
6	Corunna.....	*	*	*	*	*	30.17	-09	?	?	?	W	4	c	4	48	?	-		
7	Corunna.....	*	*	*	*	*	30.14	-03	49	46	?	NE	2	b	4	55	39	0.16		
8	Corunna.....	*	*	*	*	*	29.95	-19	43	40	-6	EHE	2	b	4	55	34	-		
10	Corunna.....	*	*	*	*	*	30.55	-	51	-	-	NE	1	b	4	54	43	-		
11	Corunna.....	*	*	*	*	*	30.49	-06	49	45	-2	NHE	9	b	9	54	45	-		
"	Lisbon.....	30.20	52	N	5	b	30.28	+01	44	37	-2	NHE	5	b	?	63	45	-		
12	Corunna.....	*	*	*	*	*	30.34	-15	52	49	+3	NHE	1	c	4	57	46	-		
13	Haparanda.....	29.46	?	W	0	b	29.26	+09	18	18	0	SE	6	s	7	27	9	0.04		
"	Corunna.....	*	*	*	*	*	29.95	-39	49	47	-3	NE	2	o	4	61	43	-		
14	Corunna.....	*	*	*	*	*	29.85	-10	351	51	+2	EHE	1	o	4	59	46	-		
15	Corunna.....	*	*	*	*	*	29.64	-21	53	50	+2	SE	4	o	4	61	45	-		
17	Corunna.....	*	*	*	*	*	29.44	-05	47	44	-3	NW	5	o	5	54	41	0.32		
18	Corunna.....	*	*	*	*	*	29.47	+03	43	42	-4	SSE	4	r	5	50	39	0.24		
"	Lisbon.....	29.91	47	WNW	5	b	29.82	+12	49	47	+1	SW	5	r	?	52	43	0.20		
19	Brussels.....	*	*	*	*	*	29.28	-23	43	43	+4	SE	1	f	7	50	?	-		
"	Corunna.....	*	*	*	*	*	29.79	+32	50	-	+7	NW	6	c	8	54	39	0.12		
"	Lisbon.....	29.76	53	WNW	4	o	29.88	+06	49	46	0	NW	5	bc	?	59	48	1.22		
20	Corunna.....	*	*	*	*	*	30.03	+24	52	48	+2	NW	4	b	5	54	41	0.04		
21	Corunna.....	*	*	*	*	*	29.67	-36	50	50	-2	NW	7	r	7	55	?	0.75		
"	Lisbon.....	?	50	?	4	o	30.01	-12	51	47	+4	WNW	5	bc	8	57	?	0.16		
22	Corunna.....	*	*	*	*	*	30.16	+49	?	?	?	SW	4	o	5	52	46	0.04		
24	Corunna.....	*	*	*	*	*	29.67	-43	56	55	+4	SSW	4	r	5	57	50	0.35		
"	Lisbon.....	30.24	55	NW	3	o	30.12	-14	55	53	+4	WSW	4	o	5	61	?	-		
25	Corunna.....	*	*	*	*	*	29.82	+15	49	48	-7	W	5	r	5	57	45	0.63		
"	Lisbon.....	29.89	56	WSW	6	r	29.94	-18	54	-	-1	NW	4	c	4	59	54	1.14		
26	Corunna.....	*	*	*	*	*	30.20	+38	59	54	+10	SW	3	bc	4	?	45	-		
27	Corunna.....	*	*	*	*	*	30.12	-08	62	56	+3	N	1	b	4	64	48	-		
28	Corunna.....	*	*	*	*	*	29.87	-25	62	54	0	SSE	3	o	4	70	52	-		
29	Bodo.....	29.53	37	SW	4	o	29.61	+15	39	37	0	Z	0	c	0	39	36	0.20		
"	Christiansund	29.77	43	WSW	5	r	29.72	+07	44	41	+2	SSW	2	c	4	48	41	0.29		
"	Corunna.....	*	*	*	*	*	30.03	+16	58	55	-4	SSE	1	o	4	68	52	-		
"	Lisbon.....	29.98	59	S	3	o	29.98	+07	53	51	-2	E	3	b	?	64	52	-		
31	Haparanda.....	29.40	32	NW	2	c	29.23	-24	?	26	?	NW	?	?	*	36	18	-		
"	Brussels.....	*	*	*	*	*	30.20	+08	44	-	-3	NW	3	c	7	58	40	-		
"	Corunna.....	*	*	*	*	*	29.86	-06	63	55	+5	N	1	b	3	66	50	1.02		



## 2. CORRECTIONS.

DATE.	STATIONS.	YESTERDAY EVENING.					8 A.M. TO-DAY.								PAST 24 HOURS.			
		Barometer at 32° F. and Sea Level.	Temp. in Shade.	WIND.		Weather.	BAROMETER.		SHADE TEMP.			WIND.		Weather.	Sea (0 to 9.)	SHADE TEMP.		Amount of Rainfall.
				Direc.	Force (0 to 12.)		Reading at 32° F. and Sea Level.	Difference from 8 a.m. yesterday.	Dry.	Wet.	Difference from 8 a.m. yesterday.	Direc.	Force (0 to 12.)			Max.	Min.	
1	Wick .....	30.18	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	Nairn .....	30.15	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2	Leith .....	-	-	E.N.E.	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	Shields .....	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.01
-	Spurn Head ...	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	28	-
-	Holyhead .....	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.01
-	Palencia .....	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.01
-	Scilly .....	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.07
-	Hurst Castle ...	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.01
3	Belmullet .....	30.56	38	N.E.	2	6	-	-	-	-	-	-	-	-	-	-	-	-
4	Holyhead .....	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.01
-	Jersey .....	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
6	York .....	-	-	-	-	-	29.60	- 29	-	-	-	-	-	-	-	-	-	-
-	Scilly .....	-	-	-	-	-	-	-	-	-	-	-	-	-	2	-	46	-
7	Jersey .....	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	No rain
8	Stagen .....	29.00	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	Tanö .....	29.22	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	Palencia .....	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	54	-
9	Yarmouth .....	29.34	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
10	Oxford .....	30.16	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
11	Sumburgh Hd. ...	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.26
-	Belmullet 2pm ...	-	-	-	-	-	-	-	-	52	-	-	-	-	-	-	-	-
12	Mullaghmore ...	-	-	-	-	-	-	-	-	-	-	-	-	-	5	-	-	-
-	Belmullet .....	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	52	0.11
15	Belmullet 2pm ...	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
16	Belmullet .....	-	-	-	-	-	-	-	-	47	-	-	-	-	-	-	-	-
17	Hurst Castle ...	29.13	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
19	Loughborough ...	-	47	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	Palencia .....	-	40	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	Pembroke .....	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.06
22	Belmullet .....	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	No rain
23	Mullaghmore ...	-	-	-	-	-	-	-	-	-	-	-	-	-	6	-	-	-
24	Spurn Head ...	-	-	-	-	-	29.66	- 03	-	-	-	-	-	-	-	-	-	-
-	Scilly .....	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	43	-
25	Leith .....	29.20	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	Jersey .....	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.52
27	Belmullet 2pm ...	-	-	-	-	-	29.81	-	-	-	-	-	-	-	-	-	-	-
30	Scilly .....	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.02