

METEOROLOGICAL OFFICE,
LONDON.

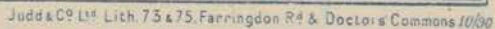
DAILY WEATHER REPORTS.

1ST JANUARY-30TH JUNE,
1890.

Sec. Reg. Lond.

January to June 1890.

January to June 1890.



DAILY WEATHER REPORT.

for Saturday, 1st February,

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. Reading at 32° F. and Sea Level.	Temp. Dry.	Wind.		Weather.	Barometer.		Shade Temp.			Wind.		Sea. (0 to 3.)	Shade Temp.		Amount of Rainfall.		
			Dir.	Force. (0 to 12.)		Reading at 32° F. and Sea Level.	Difference from 8 a.m. yesterday.	Dry.	Wet.	Difference from 8 a.m. yesterday.	Dir.	Force. (0 to 12.)		Weather.	Max.		Min.	
SCANDINAVIA.																		
Haparanda ...	29.66	12	SW	6	S	29.60	- .61	22	22	+ 28	Z	0	S		-15	0.24		
Hernösand ...	29.85	25	SSW	2	b	29.88	- .31	31	29	+ 16	SW	2	b		3	0.04		
Stockholm ...	30.12	29	SW	4	0	30.01	- .27	34	33	+ 9	W	2	b		?	?		
Wisby ...	30.24	31	W	6	S	30.10	- .13	35	33	+ 8	W	4	0		25	0.04		
Bodö ...	30.46	40	WSW	8	0	29.46	- .21	39	37	+ 3	WSW	8	c	5	32	0.12		
CHRISTIANIA.																		
Christiansund	29.85	42	WSW	8	c	29.83	+ .12	42	38	0	WSW	6	c	5	43	39	0.12	
Skudensnaes ...	30.14	42	Z	0	b	30.06	- .15	42	41	+ 5	SSW	2	0	5	43	?	0.43	
Christiania Fjord (Fierdes)	30.08	39	WSW	7	c	30.03	- .25	38	37	+ 6	SSW	2	c	3	39	?	-	
Skagen (The Soav)	30.17	35	SW	3	0	30.08	- .24	35	38	+ 7	W	3	0	3	39	30	0.08	
Fanö ...	30.34	36	WSW	4	0	30.23	- .16	38	38	+ 10	WSW	4	b		?	28	-	
SCOTLAND.																		
Sumburgh Head	30.03	46	W	3	c	29.80	- .14	45	42	- 3	SW	4	0	4	48	41	0.03	
Stornoway ...	30.13	46	W	4	0													
Wick ...	30.16	45	W	2	c	29.82	- .18	45	44	- 4	SW	2	0	1	50	41	-	
Nairn ...	30.19	44	Z	0	b	29.86	- .22	49	46	- 2	WSW	3	bc	2	53	39	0.01	
Aberdeen ...	30.22	44	WNW	2	b	30.00	- .16	45	44	- 2	SSW	2	c	2	54	35	-	
ENGLAND.																		
Leith ...	30.26	48	SW	1	bc	30.07	- .14	49	47	- 2	SW	1	om		53	39	-	
Shields ...	30.28	50	W	2	c	30.14	- .10	47	46	- 3	SW	2	c	2	54	46	0.01	
Spurn Head ...	30.29	45	W	1	0	30.23	- .06	45	44	+ 1	SW	2	cm	3	48	42	-	
York ...	30.31	49	W	1	c	30.23	- .08	48	47	+ 1	SW	1	c		54	44	-	
Loughborough	30.35	49	WNW	2	0	30.23	- .07	47	46	- 1	WNW	1	omw		52	46	-	
IRELAND.																		
Ardrossan ...	30.29	48	WNW	2	0	30.07	- .19	47	46	- 2	S	4	c	3	50	44	-	
Malin Head ...	30.23	46	SW	3	0	29.98	- .26	45	44	- 3	S	5	og	3	49	44	0.02	
Mullaghmore ...	30.32	45	SW	2	0	30.03	- .30	47	45	- 1	SSW	6	0	4	50	46	0.01	
Belmullet ...	30.30	48	SSW	3	0	30.02	- .31	48	48	- 2	SW	5	om		52	47	0.03	
Donaghadee ...	30.33	51	W	3	c	30.13	- .20	48	46	0	SW	4	c	2	54	48	-	
Wales.																		
Liverpool (Bidston)	30.37	47	W	3	r	30.24	- .13	46	45	- 1	SW	2	c	2	48	45	0.06	
Holyhead ...	30.40	48	Z	0	ogm	30.23	- .16	47	46	- 1	SW	3	ogm	2	52	46	0.04	
Parsonstown ...	30.37	50	Z	0	0	30.16	- .23	45	43	- 2	SE	1	bc		51	44	0.02	
Valencia ...	30.42	50	SW	3	om	30.18	- .26	50	48	0	WSW	5	0	5	51	46	0.04	
Roche's Point...	30.43	49	WNW	2	c	30.25	- .20	48	46	+ 1	WSW	2	0	3	52	45	-	
Channel Islands.																		
Pembroke (St. Ann's Hd.)	30.42	48	WNW	2	op	30.30	- .14	46	46	- 2	SW	3	0	2	49	45	-	
Scilly ...	30.42	48	WNW	4	0	30.33	- .14	46	45	- 2	WSW	3	0	4	49	45	0.01	
Prawle Point ...	30.42	48	NNE	1	0	30.32	- .11	47	47	+ 2	ENE	1	odm	1	52	44	-	
Jersey (St. Aubin's)	30.39	50	N	3	0	30.35	- .05	48	47	- 2	NNE	3	odm	3	51	46	0.02	
Hurst Castle ...	30.39	50	WNW	1	om	30.33	- .06	48	46	0	WNW	1	om	2	52	45	-	
France.																		
Dungeness ...	30.35	45	Z	0	m	30.32	- .03	48	42	- 1	SSW	3	m	2	46	42	0.01	
London ...	30.39	49	W	1	0	30.31	- .08	47	47	0	S	1	og		51	46	0.02	
Oxford ...	30.38	48	W	1	0	30.32	- .06	46	45	- 1	SW	1	og		49	46	-	
Cambridge ...	30.37	47	Z	0	0	30.30	- .08	46	45	0	Z	0	0		50	40	0.01	
Yarmouth ...	30.33	42	SSW	1	b	30.28	- .05	43	42	+ 2	SW	2	f	3	44	40	0.05	
Germany.																		
Cuxhaven ...	30.44	32	SSW	2	c	30.37	- .03	32	31	+ 3	SW	4	bc		34	?	-	
Berlin ...	30.49	30	Z	0	b	30.49	+ .15	25	24	- 1	SSW	3	0		34	23	-	
Wiesbaden ...						30.46	+ .19	25	24	- 10	Z	0	b		37	25	-	
Munich ...	30.37	17	NE	2	bc	30.37	+ .13	13	13	- 9	E	4	m		28	5	0.04	
The Helder ...	30.41	35	SSW	1	c	30.33	- .08	38	37	+ 3	SSW	2	f	3	39	34	-	
Belgium.																		
Brussels (9 a.m.)						30.41	+ .08	31	29	- 7	S	1	b		39	31	-	
Cape Gris Nez						?	?	87	35	- 7	S	3	0	2	48	36	-	
Paris ...	30.38	37	NE	1	0	30.39	+ .09	28	27	- 14	WNW	1	b		46	28	-	
Brest ...						?	?	48	45	0	N	1	0	3	54	43	-	
Lorient ...	30.39	50	N	3	0	30.33	- .07	48	48	- 1	N	1	m	5	50	46	-	
Spain.																		
Rocheport ...	30.34	48	NE	2	0	30.34	- .05	35	34	- 9	NE	4	b		50	23	-	
Belfort ...	30.20	29	SE	1	0	30.22	+ .06	26	19	- 1	SE	2	b		33	23	-	
Lyons ...	30.19	33	N	1	r	30.27	?	24	23	- 8	WNW	3	b		39	24	0.04	
Nice ...	29.97	41	NE	6	b	30.08	+ .13	33	27	- 2	ENE	5	b	3	52	30	-	
Perpignan ...	30.06	45	W	5	0	30.16	+ .02	33	31	- 9	NE	2	bc		48	31	-	
Biarritz ...	30.28	45	NE	3	0	30.17	- .19	44	37	0	E	3	b	6	48	34	0.32	
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

Saturday, 1st February

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 February.

During the 15 Years: 1871—1885.

STATIONS.	MEAN READINGS.
Sumburgh Head	29.713
Stornoway	29.700
Wick	29.737
Nairn	29.747
Aberdeen	29.780
Leith	29.803
Shields	29.847
York	29.884
Loughborough	29.912
Ardrossan	29.805
Donaghadee	29.812
Holyhead	29.848
Liverpool	29.873
Parsonstown	29.834
Valencia	29.850
Roche's Point	29.850
Pembroke	29.875
Scilly	29.911
Jersey	29.975
Hurst Castle	29.944
Dover	29.967
LONDON	29.949
Oxford	29.938
Cambridge	29.935
Yarmouth	29.928

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

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

WEATHER—is shown by Letters of the Beaufort Scale.

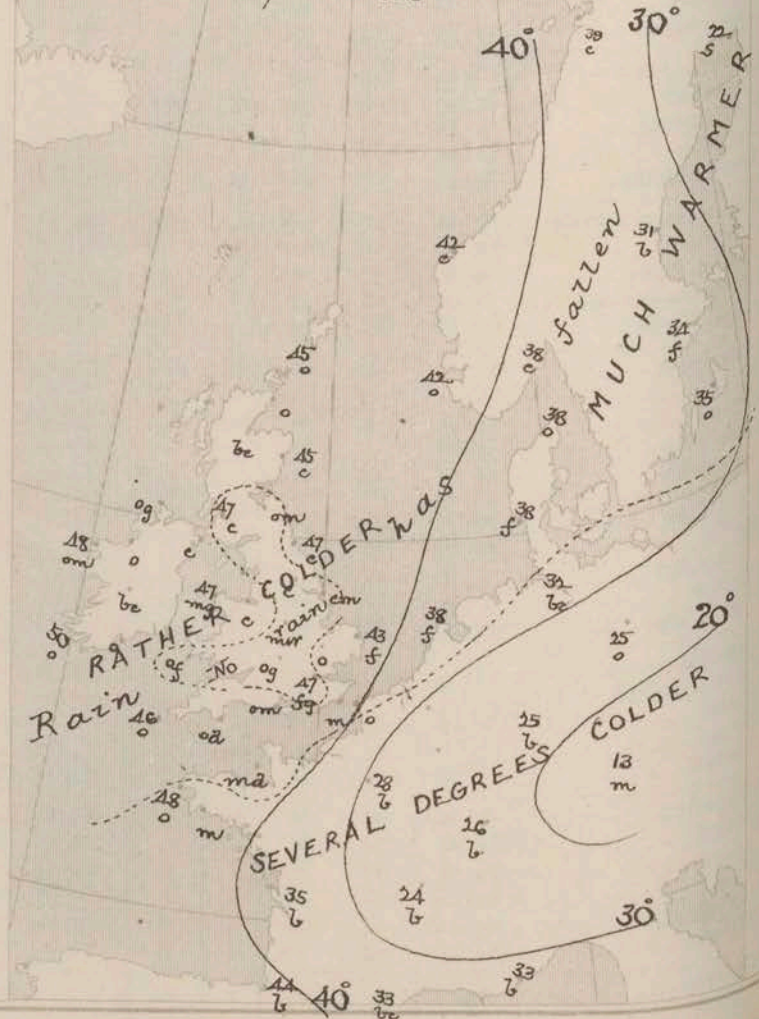
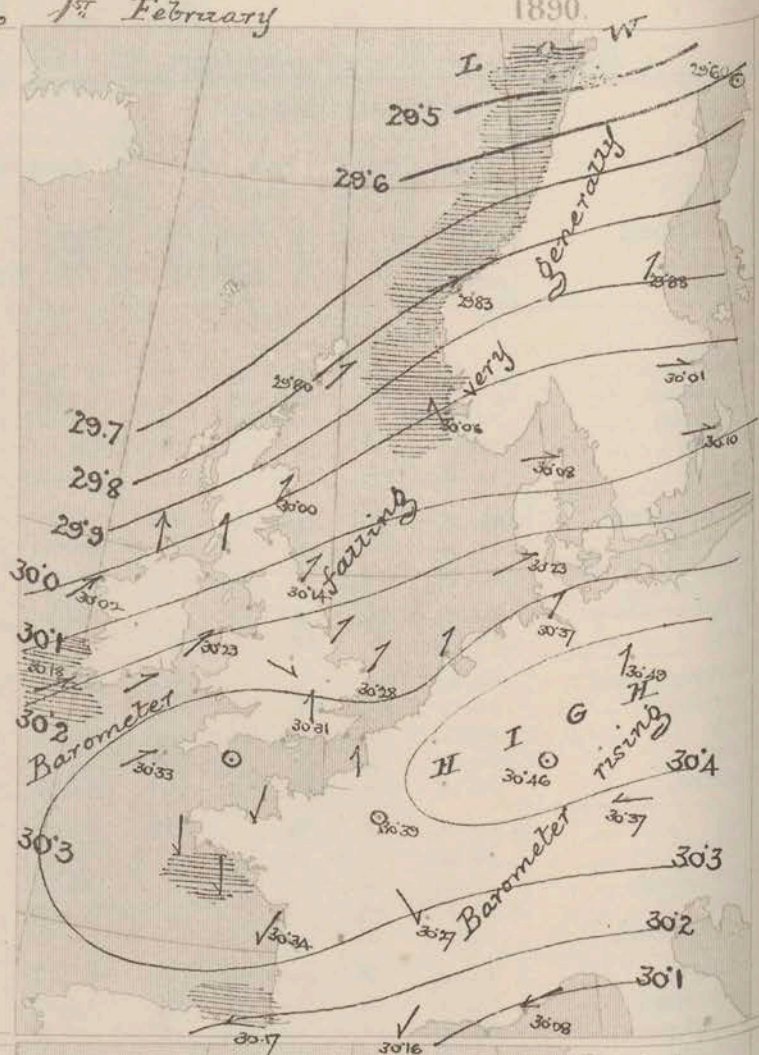
RAINFALL—A dotted line separates the districts in which rain has fallen from those where there has been none. Falls of 0.5 in. or more, are quoted in figures.

MEANS OF TEMPERATURE IN SHADE, AND RAINFALL.

(For the month of February.)

STATIONS.	TEMPERATURE.				RAINFALL (Inches.)
	Daily Max.	Daily Min.	at 8 a.m.		
			Dry.	Wet.	
Sumburgh Head.....	42.6	34.7	38.7	37.7	3.29
Stornoway.....	43.6	34.7	39.3	38.2	3.97
Wick.....	43.4	33.5	38.4	37.0	2.02
Nairn.....	43.4	33.8	37.4	35.7	1.51
Aberdeen.....	43.6	34.2	37.8	36.2	2.61
Leith.....	46.0	34.7	39.2	37.7	1.58
Shields.....	44.3	35.7	39.2	37.9	1.63
York.....	45.3	34.2	38.2	37.1	1.88
Loughborough.....	46.0	34.5	38.4	37.3	2.00
Ardrossan.....	45.0	36.7	40.0	38.6	3.47
Donaghadee.....	45.8	37.0	40.7	39.7	2.71
Holyhead.....	46.1	39.3	42.3	40.8	2.90
Liverpool.....	45.3	36.9	39.0	38.3	1.85
Parsonstown.....	47.4	36.1	40.1	38.8	2.45
Valencia.....	50.2	40.8	45.1	43.4	5.29
Roche's Point.....	48.9	40.0	43.6	42.2	4.86
Pembroke.....	48.2	40.3	43.1	41.9	3.20
Scilly.....	49.7	43.7	46.9	45.3	2.98
Jersey.....	47.6	40.1	43.2	42.0	2.72
Hurst Castle.....	45.5	37.9	41.3	40.4	2.63
Dover.....	45.4	37.4	40.3	39.1	2.12
LONDON.....	46.9	36.0	39.7	38.6	1.89
Oxford.....	45.9	35.9	38.8	37.7	2.06
Cambridge.....	46.4	35.9	38.3	37.5	1.60
Yarmouth.....	43.5	35.2	38.9	38.2	2.02

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, 30.3 ins. to 30.5 ins. over Germany, the north of France, and the south of England.</p> <p>Lowest, 29.8 ins. and less, in the extreme northwest of Scotland, and 29.5 ins. and less, over Lapland.</p> <p>Gradients moderate for SW winds over the western and northern parts of our area, and for E winds in the south of France.</p> <p>Barometer apparently still falling except in Germany and the east of France.</p>
TEMPERATURE	<p>Highest, 50° at Valencia, 49° at Naum and Leith, 48° at Balmalut, Rocherpoint, Jersey and Poireut.</p> <p>Lowest, 13° at Munich, 22° at Haparanda, 24° at Lyons, 25° at Wiesbaden and Berlin, and 28° at Paris.</p> <p>It has risen fast in Sweden, fallen over France and Germany, since yesterday.</p>
WIND	<p>Moderate from E. and NE. over the southern parts of Germany and France, calm or nearly so over Western Germany, the north of France and southeast of England, generally SW elsewhere — light or over northeast coast, fresh in Ireland, strong to a gale in the northwest of Norway.</p>
WEATHER	<p>Fine and bright over France and Germany, cloudy in most other places, overcast and foggy and misty in many parts of our Islands, with slight rain occasionally.</p> <p>In London it is very gloomy, and a damp fog prevails.</p>
SEA	<p>Rough over the Bay of Biscay, rather so at Valencia and on the Norwegian coast, slight or smooth elsewhere.</p>

PROBABLE CHANGES IN SYSTEM NOW PREVALENT

At present there is no indication of any decided change, but conditions are becoming favourable for the advance of large depressions towards our northwestern coast from the Atlantic.

FORECASTS

For the 24 hours ending at NOON on 2nd FEB^{ry} 1890.

DISTRICTS.	FORECASTS.	DISTRICTS.	FORECASTS.
0 SCOTLAND NORTH	SW ^{ly} breezes, freshening; mild, rain at times.	6 SCOTLAND WEST	Same as No 0.
1 SCOTLAND EAST	SW ^{ly} breezes, light or moderate; very mild, fair.	7 ENGLAND N.W.	
2 ENGLAND N.E.		8 ENGLAND S.W.	SW ^{ly} breezes, light to moderate; mild, some showers.
3 ENGLAND EAST	Very light breezes or calms; very mild damp, misty, drizzle at times.	9 IRELAND NORTH	SW ^{ly} breezes, light to moderate; mild, some showers.
4 MIDLAND COUNTIES		0 IRELAND SOUTH	
5 ENGLAND SOUTH			
		WARNINGS	NONE ISSUED.

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

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

YESTERDAY'S 2 P.M. REPORTS.

	BAR.	THER.		WIND		WEA.	SEA		BAR.	THER.		WIND		WEA.	SEA
		D	W	D	F					D	W	D	F		
Skudesnaes ...	30.12	42	41	S	6	rf	5	Holyhead ...	30.40	50	49	WSW	1	og	2
Sumburgh Head ...	30.03	47	44	W	3	bc	4	Valencia ...	30.44	51	51	SW	4	o a m	6
Stornoway ...	30.13	49	47	W	3	c	4	Sally ...	30.45	48	48	WSW	5	cp 2	3
Aberdeen ...	30.19	53	49	WSW	1	c	1	Jersey ...	30.40	51	48	N	3	o	1
Shields ...	30.24	53	50	W	2	c	2	Dungannon ...	30.34	46	45	SW	1	m	1
Ararossan ...	30.29	50	49	WSW	3	c	2	London ...	30.35	51	49	WSW	2	o	3
Mahin Head ...	30.28	48	48	WSW	4	o	2	Yarmouth ...	30.32	43	42	SSW	2	o f d	2
Mullaghmore ...	30.34	49	49	WSW	4	cm	3	Rockefort ...	30.37	48	48	WSW	2	o	2
Belmullet ...	30.34	51	51	SW	2	b	*								

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

Weather fine and bright in the south and east of France, as well as in many parts of Germany, Sweden, Finland and north of Russia, cloudy or overcast elsewhere, snow in Austria-Hungary—damp mist and slight rain in many parts of the British Isles, thunder and lightning at Rome, rain in some parts of Algeria. Very slight rain in several parts of our Islands later, and large quantities over Scandinavia and in the southwest of France.

Temperature rising decidedly over Western and Northern Europe, falling in most other places; above 50° at the Azores and Sanquhar, as well as in some parts of Scotland, and touching 50° in the west of Ireland and at Shields; below the freezing point over Northern, Eastern, and Central Europe, and as low as -23° F. at Archangel, -8° at Uleaborg, -4° at Haparanda, +7° at Stockholm, at Helsingfors, 12° at Moscow, and 22° at Arkharov. Rising later to between 50° and 54° in many parts of our Islands and at Brest, but falling short of 50° in the south of France.

Wind strong from N. and NE. over the northern parts of the Mediterranean, light and variable over the Continent as a whole, light W to NW over England and the Channel, SW in Ireland and Scotland, S to SE in Norway. Very light N breeze over the Baltic. SW gales in the northwest of Norway later, NE breeze over France, no important change elsewhere.

Barometer, highest 30.4 ins. and more, over the southwest of our Islands, Brittany, the northwest of Spain, and adjacent parts of the Atlantic, and exceeding 30.3 ins. in a "ridge" extending thence across the Netherlands and Denmark to the south of Sweden; lowest 29.9 ins. and less, in two depressions, one off the northwest of Norway, the other over the Mediterranean, and about 29.9 ins. in another shallow system over Central Russia. The northern depression advancing northwards to Lapland later, no other change of importance.

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 2nd FEB^{ry}

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. 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 ...	29.75	16	Z	0	b	29.43	- .17	32	31	+ 10	SW	4	0	*	?	16	-	
Hernösand ...	29.79	22	Z	0	bc	29.51	- .37	32	32	+ 1	S	2	0	*	26	21	0.08	
Stockholm ...	29.98	34	Z	0	o	29.81	- .20	37	36	+ 3	SW	4	0	*	37	28	-	
Wisby ...	30.06	36	SW	4	o	29.99	- .11	36	35	+ 1	SSW	6	0	*	37	30	-	
Bodo ...	29.32	39	WSW	6	r	29.23	- .23	39	36	- 0	SSE	2	0	1	39	34	0.21	
CHRISTIANIA.																		
Christiansund	29.54	42	SW	5	r	29.38	- .45	37	36	- 5	SW	5	r	5	45	36	0.32	
Skudesnaes ...	29.85	43	SSE	7	r	29.72	- .34	40	39	- 2	W	6	r	5	43	39	0.32	
Christiania Fjord (Farder)	29.91	37	SSW	5	m	29.70	- .33	41	41	+ 3	SSW	7	m	4	?	37	-	
Skagen (The Scaw)	29.97	39	SW	3	m	29.85	- .23	39	39	+ 1	SW	4	f	3	39	37	-	
Fanø ...	30.13	38	WSW	5	a	30.01	- .22	38	37	- 0	SSW	4	o	*	39	37	0.16	
SCOTLAND.																		
Sumburgh Head	29.65	43	SW	3	r	29.35	- .45	35	35	- 10	W	6	o	5	46	33	0.20	
Stornoway ...	29.73	40	W	4	o	29.75	- .02	37	37	- 8	N	6	bc	5	45	34	0.16	
Wick ...	29.75	45	NW	1	bc	29.66	- .16	35	33	- 10	W	3	bc	1	48	35	0.02	
Nairn ...	29.79	44	WSW	2	c	29.78	- .08	36	35	- 13	W	2	b	2	52	34	0.04	
Aberdeen ...	29.82	45	SSW	3	c	29.87	- .13	37	33	- 8	SW	2	b	2	49	35	-	
ENGLAND.																		
Leith ...	29.88	49	SW	3	c	29.97	- .10	38	35	- 11	W	3	b	*	54	35	0.06	
Shields ...	29.98	47	SW	2	c	29.97	- .17	40	38	- 7	WSW	3	c	2	52	39	-	
Spurn Head ...	30.08	46	SSW	3	c	30.04	- .19	42	41	- 3	WSW	2	c	3	49	42	-	
York ...	30.07	48	SW	1	o	30.05	- .18	42	40	- 6	WNW	1	c	*	51	41	-	
Loughborough	30.14	48	SSW	3	o	30.09	- .19	42	41	- 5	W	1	o	*	51	42	-	
IRELAND.																		
Ardrossan	29.91	46	SSW	2	o	30.04	- .03	42	40	- 5	WSW	4	c	2	47	39	0.16	
Malin Head ...	29.90	43	SW	3	c	30.05	+ .07	38	37	- 7	W	5	bc	4	46	37	0.11	
Mullaghmore ...	29.94	45	SW	4	c	30.15	+ .12	42	38	- 5	W	6	c	5	47	38	0.13	
Belmullet ...	29.96	45	W	3	o	30.18	+ .16	42	40	- 6	W	3	b	*	48	36	0.20	
Donaghadee ...	29.96	47	WSW	3	r	30.13	- .00	42	34	- 14	WSW	3	b	1	49	34	0.16	
Wales.																		
Liverpool (Bidston)	30.06	46	SSW	3	o	30.14	- .10	41	39	- 5	WNW	4	bc	4	50	41	0.07	
Holyhead ...	30.06	47	SW	3	o	30.16	- .07	42	40	- 5	WNW	3	b	3	47	41	0.16	
Parsonstown ...	30.00	45	Z	0	r	30.23	+ .07	33	32	- 14	Z	0	bc	*	51	32	0.16	
Valencia ...	30.06	46	NW	1	o	30.31	+ .13	42	38	- 8	NW	2	bc	3	51	38	0.38	
Roche's Point...	30.05	49	SW	4	r	30.26	+ .01	40	37	- 8	WNW	3	b	4	51	38	0.15	
Wales.																		
Pembroke (St. Ann's Hd.)	30.13	46	SSW	3	o	30.20	- .10	43	41	- 3	NW	4	bc	3	47	42	0.11	
Scilly ...	30.20	46	SSW	4	o	30.18	- .15	47	46	+ 1	N	6	c	6	49	44	0.31	
Prawle Point ...	30.23	45	WSW	1	o	30.17	- .15	45	45	- 2	WNW	2	og	1	46	43	0.15	
Jersey (St. Aubin's)	30.25	47	SE	1	o	30.20	- .15	46	45	- 2	NW	1	ogm	1	48	45	-	
Hurst Castle ...	30.23	48	NW	1	o	30.16	- .17	47	45	- 1	W	1	og	2	48	44	-	
Wales.																		
Dungeness	30.24	44	SSW	4	o	30.13	- .19	44	43	+ 1	SW	4	m	3	44	41	-	
London ...	30.22	47	SSW	1	o	30.13	- .18	43	42	- 4	WSW	1	o	*	49	43	0.01	
Oxford ...	30.17	47	SW	3	o	30.14	- .18	43	42	- 3	SW	1	og	*	50	43	-	
Cambridge ...	30.18	45	SW	1	o	30.08	- .22	44	43	- 2	SW	1	o	*	51	42	-	
Yarmouth ...	30.17	46	SW	2	o	30.06	- .22	42	41	- 1	SW	3	bc	3	46	40	0.01	
Wales.																		
Cuxhaven	30.38	31	SSW	2	bc	30.16	- .21	30	29	- 2	SSW	3	c	*	36	28	-	
Berlin ...	30.40	26	SSW	2	b	30.30	- .19	24	20	- 4	SE	2	b	*	30	19	-	
Wiesbaden ...	*	*	*	*	*	?	?	23	22	- 2	?	1	bc	*	34	23	-	
Munich ...	30.32	13	NE	3	b	30.25	- .12	15	15	+ 2	SE	3	m	*	25	9	-	
The Helder ...	30.22	37	S	2	o	30.12	- .21	39	37	+ 1	SSW	3	c	3	39	37	0.04	
Belgium.																		
Brussels (9 a.m.)	?	*	*	*	*	30.23	- .18	30	28	- 1	S	3	c	*	39	30	-	
Cape Gris Nez	?	40	SW	3	o	?	?	36	33	- 1	SW	3	o	3	48	34	-	
Paris ...	30.31	33	E	1	b	30.24	- .15	25	25	- 3	SE	1	bc	*	42	24	-	
Brest ...	?	49	Z	0	o	?	?	48	45	- 0	W	2	o	3	54	41	0.08	
Lorient ...	30.26	47	SW	2	o	30.18	- .15	46	42	- 2	SSE	2	o	2	50	43	-	
France.																		
Rochefort	30.28	40	NE	4	b	30.26	- .08	30	29	- 5	ENE	3	b	1	45	25	-	
Belfort ...	30.26	33	SW	1	b	30.25	+ .03	23	17	- 3	SW	1	b	*	43	21	-	
Lyons ...	30.30	28	E	1	b	30.26	- .01	24	?	- 3	NE	1	b	*	36	21	-	
Nice ...	30.18	39	Z	0	b	30.24	+ .16	34	28	+ 1	E	2	b	2	46	32	-	
Perpignan ...	30.23	38	NE	1	b	30.25	+ .09	29	28	- 4	SW	1	b	*	47	28	-	
Biarritz ...	30.20	37	ENE	2	b	30.20	+ .00	41	35	- 3	SW	4	c	2	45	34	-	
Spain.																		
Corunna ...	*	*	*	*	*	30.26	- .01	49	48	- 3	E	1	o	4	55	?	-	
Lisbon ...	30.05	36	N	5	b	30.25	+ .19	43	?	- 7	NNE	4	o	5	64	43	-	

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

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

WEATHER CHARTS

for 8 a.m. on

Sunday, 2nd February,

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:

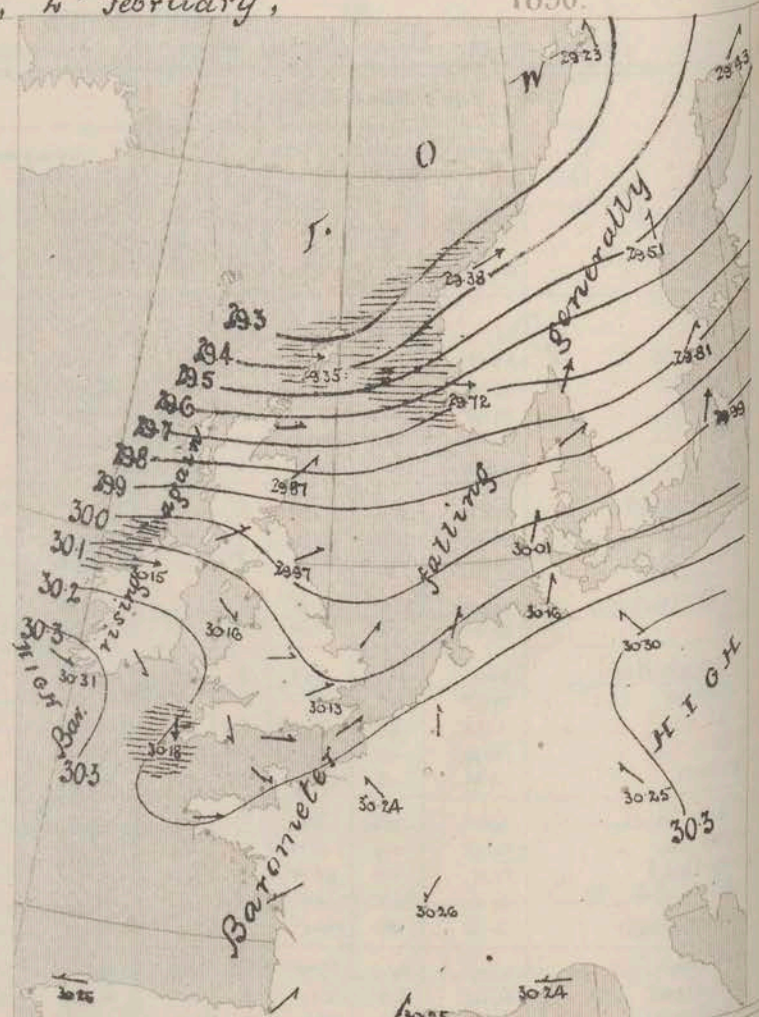
≡≡≡ Rough. ≡≡≡ High.

MEAN HEIGHT OF THE BAROMETER

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

During the 15 Years: 1871—1885.

STATIONS.	MEAN READINGS.
	<i>1885.</i>
Sumburgh Head	29.713
Stornoway	29.700
Wick	29.737
Nairn	29.747
Aberdeen	29.750
Leith	29.803
Shields	29.847
York	29.884
Loughborough	29.912
Ardrossan	29.805
Donaghadee	29.812
Holyhead	29.848
Liverpool	29.873
Parsonstown	29.834
Valencia	29.850
Roche's Point	29.850
Pembroke	29.875
Sally	29.911
Jersey	29.975
Hurst Castle	29.944
Dover	29.957
LONDON	29.949
Oxford	29.938
Cambridge	29.935
Yarmouth	29.928



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

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

WEATHER is shown by Letters of the Beaufort Scale.

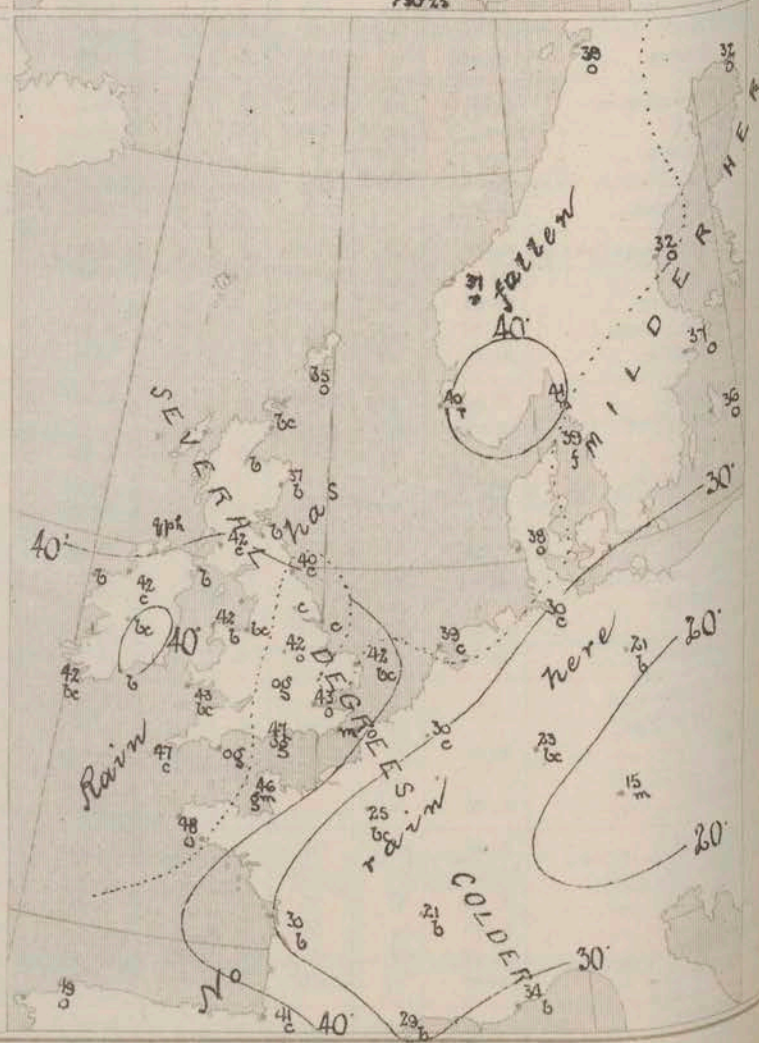
RAINFALL—A dotted line separates the districts in which rain has fallen from those where there has been none. Falls of 0.5 in. or more, are quoted in figures.

MEANS OF TEMPERATURE IN SHADE, AND RAINFALL.

(For the month of February.)

STATIONS.	TEMPERATURE.				RAINFALL (Inches.)
	Daily Max.	Daily Min.	at 8 a.m.		
			Dry.	Wet.	
Sumburgh Head.....	42.6	34.7	38.7	37.7	3.29
Stornoway.....	43.5	34.7	30.3	38.2	3.97
Wick.....	43.4	33.5	38.4	37.0	2.02
Nairn.....	43.4	33.8	37.4	35.7	1.51
Aberdeen.....	43.5	34.2	37.8	36.2	2.51
Leith.....	46.6	34.7	39.2	37.7	1.58
Shields.....	44.3	35.7	39.2	37.9	1.63
York.....	45.3	34.2	38.2	37.1	1.83
Loughborough.....	46.0	34.5	38.4	37.3	2.00
Ardrossan.....	45.0	36.7	40.0	38.6	3.47
Donaghadee.....	45.8	37.0	40.7	39.7	2.71
Holyhead.....	46.1	39.3	42.3	40.8	2.90
Liverpool.....	45.3	36.9	39.9	38.3	1.85
Parsonstown.....	47.4	36.1	40.1	38.8	2.45
Valencia.....	50.2	40.8	45.1	43.4	5.29
Roche's Point.....	48.0	40.0	43.6	42.2	4.86
Pembroke.....	46.2	40.3	43.1	41.9	3.20
Sally.....	49.7	43.7	46.9	45.3	2.98
Jersey.....	47.0	40.1	43.2	42.0	2.72
Hurst Castle.....	46.5	37.9	41.3	40.4	2.63
Dover.....	45.4	37.4	40.3	39.1	2.12
LONDON.....	46.9	36.0	39.7	38.6	1.89
Oxford.....	45.9	35.9	38.8	37.7	2.06
Cambridge.....	46.4	33.9	38.3	37.3	1.60
Yarmouth.....	43.5	35.2	38.0	37.2	2.02

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



GENERAL SITUATION AT 8 A.M.

PRESSURE

Highest 30.2 in: to 30.3 in: and more over the southern parts of Ireland, the Bay of Biscay, France and Germany.
Lowest 29.3 in: and less, in a depression off the west and northwest of Norway, 29.2 in: and less, in a V shaped secondary stretching S.W. from the North Sea across England to Brittany.
Gradients steep in the north, moderate over England and the Eastern shores of the North Sea, very slight over France.
Barometer rising decidedly at our western stations and in the coast of Norway, falling elsewhere.

TEMPERATURE

Highest 49° at Corunna, 48° at Brest, 47° at Sable and Hurst Castle, 45° in London, 42° at Valencia, Balmullet, Yarmouth and York.
Lowest 15° at Alphenich, 21° at Berlin and Lyons, 23° at Wiesbaden, 25° at Paris, 29° at Besençon, and 30° at Rochefort.
 It had begun to fall decidedly especially at our western and northern stations.

WIND

W: over the northern parts of our Islands, SW: over the southeast of England, the Netherlands, Denmark and Scandinavia.
 NW: over the southwestern parts of our Islands, NE: over Spain and the south and west of France.

WEATHER

Fine and bright over the greater part of Germany, France, and our Islands, but dull in the far north, with rain in Norway and very slight drizzle at times over the south and southeast of England.

SEA

Rather rough in the extreme north and northwest and at Lisbon, moderate at several of our western stations, slight or smooth elsewhere.

PROBABLE CHANGES IN SYSTEM NOW PREVALENT

FORECASTS

For the 24 hours ending at NOON on 3rd FEB: 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
- 0 IRELAND SOUTH

FORECASTS

NONE ISSUED

WARNINGS

The S.CONE. was hoisted yesterday in the Namur but has been lowered again this morning.

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

YESTERDAY'S 2 P.M. REPORTS.

	BAR:	THER:		WIND							BAR:	THER:		WIND							
		D.	W.	D.	F.	WEA.	SEA					D.	W.	D.	F.	WEA.	SEA				
Skudesnaes ...	29.95	42	41	SSE	6	of	5	Holyhead ...	...	30.12	46	45	SSW	3	c	2					
Sumburgh Head	29.66	45	44	SW	3	o	4	Valencia ...	...	30.07	50	50	SSW	6	rm	5					
Stornoway ...	29.74	45	45	SW	4	r	4	Scilly ...	...	30.24	48	46	WSW	4	compd	4					
Aberdeen ...	29.86	48	44	SSW	4	c	3	Jersey ...	...	30.30	47	46	ESE	2	o	3					
Shields ...	30.03	50	46	SW	2	c	2	Dungeness ...	...	30.28	43	41	SSW	4	o	3					
Ardrossan ...	29.95	46	46	SSW	3	r	3	London ...	...	30.25	49	48	S	2	om	3					
Malin Head ...	29.92	45	45	WSW	4	o	3	Yarmouth ...	...	30.20	46	45	SW	3	f	2					
Mullaghmore ...	29.99	46	46	SW	4	cm	3	Rochefort ...	...	30.31	43	38	ENE	4	b	2					
Belmullet ...	29.99	47	47	Wen	3	bcp	*														

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

Continental Information will appear tomorrow.

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.

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DAILY WEATHER REPORT.

for *Monday, 3rd February,* 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.		
			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 ...	29.15	21	2	0	C		29.11	- .32	13	12	- .19	2	0	bc	*	32	?	
Hernösand ...	29.27	34	SSW	2	C		29.52	+ .01	28	24	- .04	WNW	2	b	*	27	21	
Stockholm ...	29.59	38	WSW	6	C		29.76	- .05	34	30	- .03	W	4	b	*	43	34	
Wibby ...	29.81	37	SW	6	C		29.90	- .09	38	36	- .02	W	6	b	*	29	30	
Bodö ...	29.10	34	SW	4	m		29.21	- .02	35	32	- .04	SW	4	bc	3	30	30	
SCANDINAVIA.																		
Christiansund ...	29.38	33	W	8	S		29.43	+ .05	44	42	+ .07	WSW	9	r	6	?	32	0.43
Skudesnaes ...	29.85	41	W	5	r		29.96	+ .24	45	44	+ .05	WSW	4	r	5	?	39	0.24
Christiania Fjord (Fæder)	29.71	39	WSW	7	b		29.81	+ .11	42	40	+ .01	WSW	7	c	4	?	39	
Skagen (The Scaw)	29.90	41	WNW	4	O		29.97	+ .12	41	40	+ .02	WNW	4	c	4	41	39	0.04
Fanö ...	30.13	37	W	4	b		30.21	+ .20	38	38	0	W	4	b	*	41	37	0.04
SCANDINAVIA.																		
Sumburgh Head	29.73	40	W	6	S		29.84	+ .49	47	46	+ .12	W	7	r	6	47	35	0.13
Stornoway ...	29.92	46	W	5	O													
Wick ...	29.92	39	W	2	b		30.04	+ .28	42	40	+ .07	W	2	bc	2	48	33	
Nairn ...	29.99	46	WSW	3	bc		30.09	+ .31	48	46	+ .12	WSW	4	c	2	49	36	0.01
Aberdeen ...	30.07	38	S	2	b		30.14	+ .27	46	41	+ .07	SW	2	bc	2	47	37	
SCANDINAVIA.																		
Leith ...	30.15	42	W	3	C		30.24	+ .27	46	45	+ .08	WSW	3	bc	2	46	36	
Shields ...	30.21	42	W	3	bc		30.30	+ .35	46	42	+ .14	WSW	3	c	2	44	38	
Spurn Head ...	30.27	41	W	3	b		30.36	+ .32	38	37	- .04	WSW	3	b	3	44	36	
York ...	30.28	40	W	2	O		30.35	+ .28	38	38	- .04	W	1	bc	*	47	36	
Loughborough	30.36	38	WNW	1	b		30.45	+ .36	29	28	- .13	E	1	cm	2	48	28	
BRITISH ISLANDS.																		
Ardrossan ...	30.21	44	SW	4	C		30.30	+ .26	45	45	+ .03	SW	4	dm	3	47	40	
Malin Head ...	30.22	44	WSW	6	O		30.28	+ .23	44	44	+ .06	WSW	5	od	4	46	36	0.05
Mullaghmore ...	30.32	45	WSW	5	C		30.38	+ .20	45	44	+ .03	SW	4	om	4	46	40	0.01
Belmullet ...	30.32	46	W	4	O		30.35	+ .17	47	46	+ .05	SW	3	O	1	48	41	0.02
Donaghadee ...	30.30	40	WNW	3	b		30.38	+ .25	43	43	+ .09	SW	2	C	1	45	34	
BRITISH ISLANDS.																		
Liverpool (Bidston)	30.35	39	W	3	b		30.42	+ .28	42	40	+ .01	WSW	3	O	3	46	37	
Holyhead ...	30.36	41	WNW	3	b		30.43	+ .27	45	44	+ .03	SW	3	O	2	45	41	
Parsonstown ...	30.37	40	W	0	b		30.43	+ .20	41	40	+ .08	W	0	O	*	46	32	
Valencia ...	30.47	43	WNW	2	C		30.46	+ .15	44	43	+ .02	WSW	1	O	1	49	39	0.09
Roche's Point...	30.43	44	W	3	b		30.48	+ .22	37	35	- .03	WNW	2	b	3	48	34	
BRITISH ISLANDS.																		
Pembroke (St. Ann's Hd.)	30.42	39	N	2	b		30.48	+ .28	38	38	- .05	W	2	b	1	44	37	
Scilly ...	30.39	45	NNE	6	bc		30.47	+ .29	43	41	- .04	C	1	b	3	47	40	
Prawle Point ...	30.38	41	N	3	C		30.49	+ .32	35	33	- .10	NNE	3	b	2	49	33	
Jersey (St. Aubin's)	30.31	47	NNE	3	O		30.46	+ .26	42	40	- .04	NE	3	bcm	3	50	41	0.06
Hurst Castle ...	30.36	44	NNE	2	b		30.49	+ .33	34	32	- .13	NNE	1	bm	1	47	28	
BRITISH ISLANDS.																		
Dungeness ...	30.26	47	NNE	3	m		30.44	+ .31	30	29	- .14	NNE	3	m	2	52	28	
London ...	30.36	46	NNE	2	bc		30.47	+ .34	29	27	- .12	W	1	b	*	47	28	
Oxford ...	30.42	35	WNW	1	b		30.49	+ .35	29	28	- .14	SW	2	b	*	48	29	
Cambridge ...	30.29	39	SW	1	b		30.47	+ .34	30	29	- .14	SW	1	b	*	48	27	
Yarmouth ...	30.27	42	W	1	bc		30.40	+ .34	33	32	- .09	WNW	2	bm	2	45	30	
GERMANY & HOLLAND.																		
Cuxhaven ...	30.13	34	SW	4	O		30.32	+ .16	34	32	+ .04	WSW	2	m	*	37	30	
Berlin ...	30.26	27	SSW	3	b		30.37	+ .07	33	32	+ .12	W	3	O	*	?	?	
Wiesbaden ...							30.44		28	24	+ .05	SE	1	S	*	28	23	
Munich ...	30.30	11	W	0	b		30.38	+ .13	7	7	- .08	NE	4	f	3	21	5	
The Helder ...	30.28	40	W	1	b		30.40	+ .18	39	38	0	W	1	b	1	43	39	
FRANCE AND BELGIUM.																		
Brussels (9 a.m.)							30.46	+ .23	31	31	+ .01	W	0	b	*	37	?	
Cape Gris Nez																		
Paris ...																		
Brest ...	30.31	35	NE	1	bc		30.42	+ .18	33	32	+ .08	NNE	1	O	*	41	?	
Lorient ...	?	47	NNE	1	O		?	?	44	42	- .04	NE	3	C	3	52	41	
	30.26	46	W	0	O		30.39		45	44		NNE	2	O	3	50	43	
FRANCE AND BELGIUM.																		
Rocheport ...	30.31	39	NNE	3	C		30.35	+ .09	33	31	+ .03	NE	4	b	2	46	27	
Belfort ...	30.28	35	SW	1	b		?	?	23	19	0	SW	2	O	*	45	23	
Lyons ...	30.02	33	N	1	b		30.37	+ .11	26	25	+ .05	WNW	1	b	*	39	?	
Nice ...	30.21	39	W	0	b		30.24	0.00	34	31	0	E	4	b	1	46	30	
Perpignan ...	30.24	39	W	0	b		30.28	+ .03	29	29	0	SW	1	b	*	48	27	
Biarritz ...	30.21	48	W	3	O		30.23	+ .03	38	35	- .03	S	3	b	2	50	36	
SPAIN.																		
Corunna ...																		
Lisbon ...	30.23	49	N	2	C		30.22	- .03	48	46	+ .05	W	1	bc	5	55	?	

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, 3rd February,* 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:

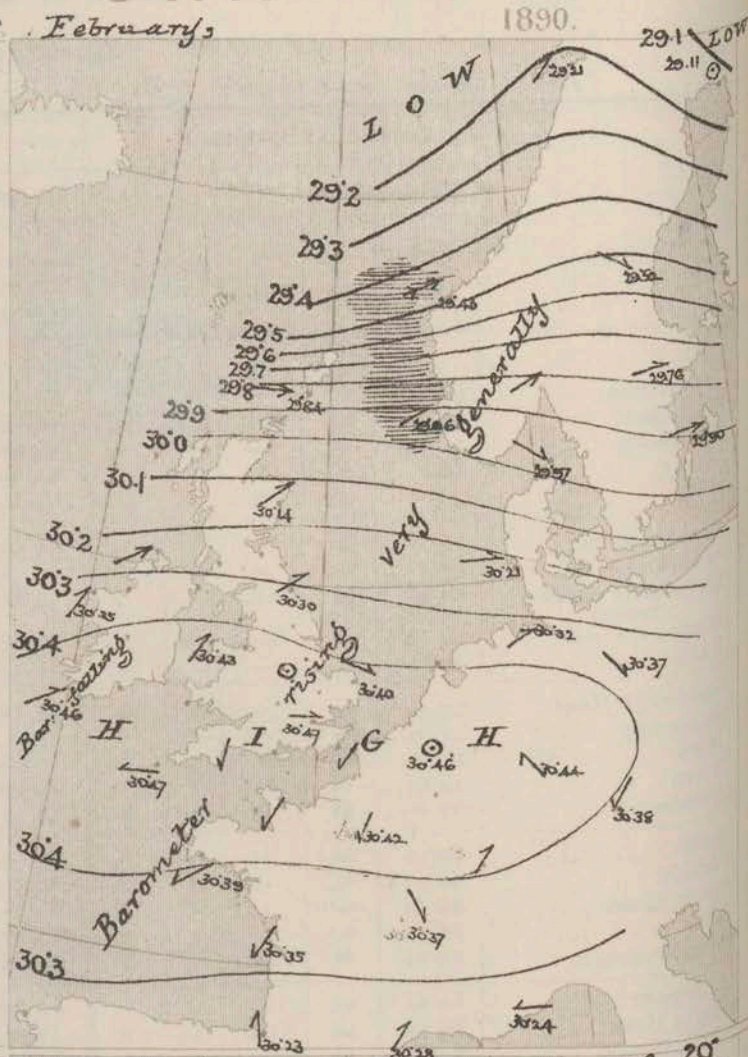
→ = Rough. → = High.

MEAN HEIGHT OF THE BAROMETER

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

During the 15 Years: 1871—1885.

STATIONS.	MEAN READINGS.
	ins.
Sumburgh Head	29.713
Stornoway	29.700
Wick	29.737
Nairn	29.747
Aberdeen	29.780
Leith	29.803
Shields	29.847
York	29.884
Loughborough	29.912
Ardrossan	29.865
Donaghadee	29.812
Holyhead	29.848
Liverpool	29.873
Parsonstown	29.834
Valencia	29.850
Roche's Point	29.850
Pembroke	29.875
Scilly	29.911
Jersey	29.975
Hurst Castle	29.944
Dover	29.957
LONDON	29.949
Oxford	29.938
Cambridge	29.935
Yarmouth	29.928



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

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

WEATHER is shown by Letters of the Beaufort Scale.

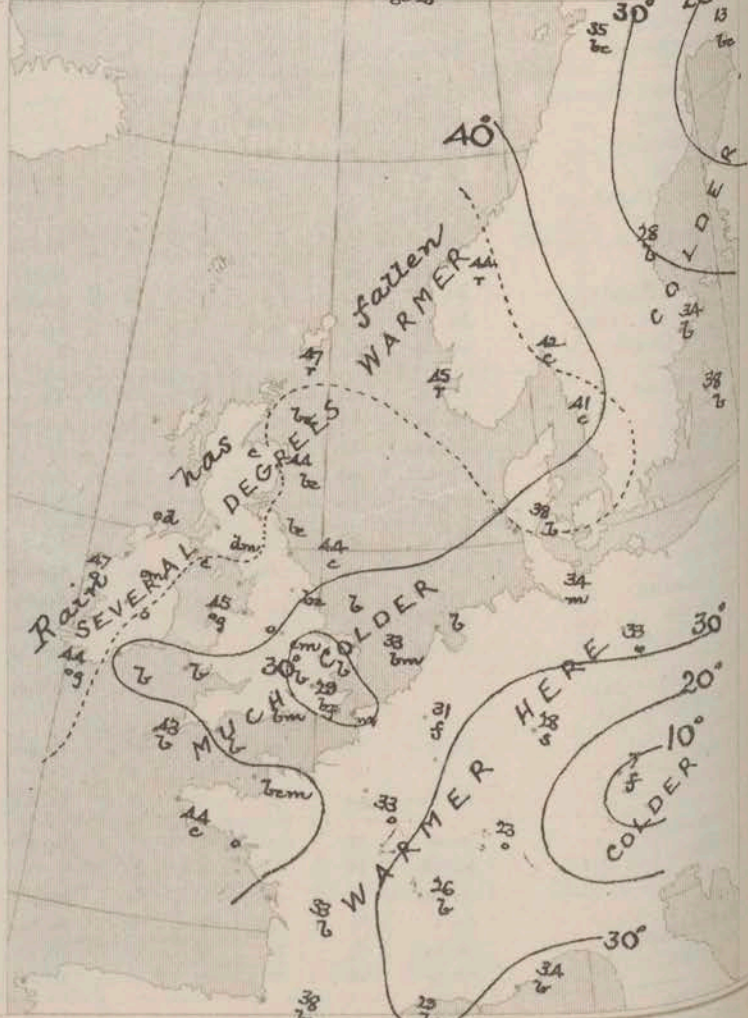
RAINFALL—A dotted line separates the districts in which rain has fallen from those where there has been none. Falls of 0.5 in. or more, are quoted in figures.

MEANS OF TEMPERATURE IN SHADE, AND RAINFALL.

(For the month of February.)

STATIONS.	TEMPERATURE.				RAINFALL (Inches.)
	Daily Max.	Daily Min.	at 8 a.m.		
			Dry.	Wet.	
Sumburgh Head.....	42.6	34.7	38.7	37.7	3.29
Stornoway.....	43.5	34.7	39.3	38.2	3.97
Wick.....	43.4	33.5	38.4	37.0	2.02
Nairn.....	43.4	33.8	37.4	35.7	1.61
Aberdeen.....	43.5	34.2	37.8	36.2	2.61
Leith.....	46.6	34.7	39.2	37.7	1.68
Shields.....	44.3	35.7	39.2	37.9	1.63
York.....	45.3	34.2	38.2	37.1	1.88
Loughborough.....	46.0	34.5	38.4	37.3	2.00
Ardrossan.....	45.0	36.7	40.0	38.6	3.47
Donaghadee.....	45.8	37.0	40.7	39.7	2.71
Holyhead.....	46.1	39.3	42.3	40.8	2.90
Liverpool.....	46.3	36.9	39.9	38.3	1.85
Parsonstown.....	47.4	36.1	40.1	38.8	2.45
Valencia.....	50.2	40.8	45.1	43.4	5.29
Roche's Point.....	48.9	40.0	43.6	42.2	4.86
Pembroke.....	46.2	40.3	43.1	41.9	3.20
Scilly.....	49.7	43.7	46.9	45.3	2.98
Jersey.....	47.6	40.1	43.2	42.0	2.72
Hurst Castle.....	46.5	37.9	41.3	40.4	2.63
Dover.....	45.4	37.4	40.3	39.1	2.12
LONDON.....	46.9	36.0	39.7	38.0	1.89
Oxford.....	45.9	35.9	38.8	37.7	2.06
Cambridge.....	46.4	33.9	38.3	37.3	1.66
Yarmouth.....	43.5	35.2	38.9	38.2	2.62

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



GENERAL SITUATION AT 8 A.M.

PRESSURE

Highest, 30.4 in: and more, over the southern half of the British Isles, the Channel, north of France and Northwest Germany.
Lowest, 29.2 in: and less, over Lapland, and about 30.2 in: in the extreme south of France.

Gradients are slight except in the far north.

Barometer is still rising in most places, but has begun to fall again in the west of Ireland.

TEMPERATURE

Highest, 48° at Nairn, 47° at Edinburgh Ht. and Balmuccia, 46° at Leeds, 45° at Skudsmo, Ards, and 44° at Valence and Beal.
Lowest, 7° at Munich, 13° at Copenhagen, 23° at Belfast, 26° at Lyons, 28° at Wiesbaden and Rome, and 29° at London and at Oxford, and 33° at Paris and Berlin.
It has been as low as 28° in the shade and 18° on the grass early this morning.

WIND

W at all the more northern stations, and blowing a gale at Christiansund, Faerøer, and Edinburgh Ht.
SW, moderate on our northwestern coasts, variable and light at our southeastern and inland stations, and NE to E over the Channel and west of France.

WEATHER

Fine and bright over Southern Europe, the Channel, England and Scotland, but with local fogs, overcast elsewhere, with rain in the far north, snow at Wiesbaden.
Snow fell at Edinburgh Ht. yesterday, and a little rain on our north and northwest coasts.

SEA

Rough in the far north, moderate in the extreme northwest, slight or smooth elsewhere.

PROBABLE CHANGES IN SYSTEM NOW PREVALENT

The great fall of the barometer in the west points to the advance of a new series of disturbances towards the northwestern and northern parts of our area, and which are likely to cause a rise of temperature generally and rain at times in the west and north.

FORECASTS

For the 24 hours ending at NOON on 4th FEB^y 1890.

DISTRICTS.

FORECASTS.

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

Wind backing to SW^w again; milder, some showers.

SW^w breezes, light; fine.

Same as N° 5

Same as N° 2

Light Variable airs, finally SW^w; fine, becoming milder, but cold at night.

DISTRICTS.

FORECASTS

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

SW^w breezes, freshening; fair to showery, milder.

SW^w breezes, freshening; showery, mild.

WARNINGS

NONE ISSUED.

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

YESTERDAY'S 2 P.M. REPORTS.

	BAR.	THER:		WIND		WEA	SEA		BAR:	THER:		WIND		WEA	SEA
		D.	W.	D.	F.					D.	W.	D.	F.		
Shudeenæs ...	29.76	40	38	W	7	thq	5	Holyhead ...	30.32	43	40	WNW	2	6	5
Gumburgh Head ...	29.89	43	42	W	5	bc	4	Valencia ...							
Stornoway ...								Scilly ...							
Aberdeen ...								Jersey ...	30.23	50	47	WNW	2	6	5
Shields ...								Dungeness ...	30.19	49	47	W	2	0	5
Ardsanan ...								London ...							
Malin Head ...								Yarmouth ...							
Mullaghmore ...								Rochefort ...	30.28	42	39	E	1	6	5
Belmullet ...	30.30	47	45	W	4	6	*								

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

Weather improving over the British Islands and France, fine and bright over southern and central Europe, dull and gloomy in the far North, with rain at several Scandinavian stations, rainfalls considerable in northern Europe later, snow in some places, very slight rain on our own N.W. coasts, weather improving over England.

Temperature fallen considerably over central Europe and beginning to decrease in the W. and N.W. but risen considerably over Finland and northern Russia: exceeding 50° at Brindisi only, but over 40° in many parts of our Islands, Spain and Algeria. Lowest (1) +1° at Archangel, +15° at Keppio, 27° at St. Petersburg, (2) 6° at Cracow, 10° at Hermandstadt, 15° at Munich and Breslau, 20° at Kharkov, 21° at Berlin, 25° at Paris and Madrid, falling still further over the United Kingdom later, frost inland at night.

Wind chiefly E^{ly} to N^{ly} over the Mediterranean, very light and variable over E^m and central Europe, NW^{ly} on our southwestern and southern coasts, W^{ly} at our N.W. stations, SW^{ly} over Holland, Denmark and Scandinavia. The NW^{ly} wind becoming general in Ireland and England later, NE^{ly} over the Channel, France and Bay of Biscay.

Barometer above 30.0 ins. over all but the N.W. parts of the British Isles and Europe; as high as 30.6 ins. and more over Austria-Hungary and S^m Russia and exceeding 30.2 ins. in a new anticyclone advancing over Ireland from the Atlantic; lowest 29.3 ins. and less off the west of Norway. The new anticyclone spreading to the east decidedly later.

SUMMARY OF CHANGES IN THE WEATHER OVER THE BRITISH ISLANDS AND THEIR NEIGHBOURHOOD. FROM THE 26TH JANUARY TO 1ST FEBRUARY 1890.

The severe gales which had been blowing from between S. and W. over the British Islands during the previous week continued with great force on Sunday, but died down entirely on Monday last, and the barometer rose everywhere. A complex depression then came in over the south of England, and on Tuesday caused a temporary renewal of rough weather over the southeast of England, but on Wednesday this had passed off, and a well marked 'ridge' lay over us, with cold, dry, bright weather. This system then soon moved southeastwards, and the remainder of the week was marked by W^{ly} and SW^{ly} breezes, of little strength, mild weather and damp air, and occasionally drizzling rain. At the close of the week a well marked depression was travelling past our extreme northwestern coasts in a northeasterly direction, and a 'V' shaped secondary had reached Ireland from the westward.

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 FEBRUARY 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. Reading at 3 ²⁵ P. and Sea Level.	TEMP. Dry.	WIND.		Weather.	BAROMETER.		SHADE TEMP.			WIND.		Sea. (0 to 12.)	SHADE TEMP.		Amount of Rainfall.		
			Dir.	Force. (0 to 12.)		Reading at 8 a.m. yesterday.	Difference from 8 a.m. yesterday.	Dry.	Wet.	Difference from 8 a.m. yesterday.	Dir.	Force. (0 to 12.)		Weather.	Max.		Min.	
SCANDINAVIA.																		
Haparanda ...	29.16	6	Z	0	0	29.45	+24	3	2	-10	Z	0	bc	*	23	3	-	
Hernösand ...	29.44	31	Z	0	0	29.65	+13	34	32	+6	SPW	2	f	*	36	25	-	
Stockholm ...	29.75	42	WSPW	6	0	29.85	+13	37	35	+3	WSPW	2	bc	*	43	34	-	
Visby ...	29.84	39	SPW	4	0	30.02	+12	38	37	0	W	4	bc	*	41	34	-	
Bodö ...	29.12	30	E	2	0	29.19	-02	35	34	0	S	2	P	1	?	28	0.12	
BRITISH ISLANDS.																		
Christiansund ...	29.62	42	WSPW	8	0	29.53	+10	47	42	+3	WNW	7	C	6	9	41	0.28	
Skudesnaes ...	30.10	44	WSPW	2	0	30.00	+04	42	42	-3	S	2	0	5	45	41	0.04	
Christiania Fjord (Færdier)	29.93	44	NNW	3	0	29.95	+14	41	40	-1	WSPW	5	bc	3	45	41	-	
Skagen (The Scaw)	30.04	41	W	5	0	30.05	+08	41	41	0	W	3	0	3	45	39	-	
Fanö ...	30.26	39	WSPW	4	0	30.21	0.0	39	39	+1	SPW	1	f	*	41	37	-	
Sumburgh Head ...	29.84	46	W	6	C	29.77	-07	43	42	-4	NW	4	0	6	48	42	0.02	
Stornoway ...	29.92	48	SW	7	C	29.92	-12	41	39	-1	W	1	bc	1	49	39	-	
Wick ...	30.00	45	W	2	bc	29.92	-12	41	39	-1	W	1	bc	1	49	39	-	
Nairn ...	30.04	46	WSPW	3	bc	29.94	-15	43	42	-5	WSPW	3	C	1	51	43	-	
Aberdeen ...	30.10	44	S	1	bc	29.99	-15	40	39	-4	SPW	1	cm	2	52	40	-	
GERMANY & HOLLAND.																		
Leith ...	30.23	46	W	3	0	30.05	-19	44	43	-2	W	2	cm	*	50	41	-	
Shields ...	30.27	46	WSPW	3	C	30.13	-17	43	41	-1	SPW	2	0	2	50	38	-	
Spurn Head ...	30.32	41	SPW	2	bc	30.18	-18	41	40	+3	WSPW	2	cm	2	44	37	-	
York ...	30.34	44	SPW	1	0	30.18	-20	42	41	+4	SPW	1	0	*	51	38	-	
Loughborough ...	30.37	43	WSPW	1	0	30.22	-23	37	36	+8	ENE	1	cm	*	45	29	-	
FRANCE AND BELGIUM.																		
Ardrossan ...	30.24	45	SPW	3	0	30.07	-23	45	44	0	SPW	3	0	2	45	44	-	
Malin Head ...	30.18	45	SPW	5	0	30.08	-20	43	42	-1	NW	2	OT	3	46	41	0.03	
Mullaghmore ...	30.23	46	SPW	4	0	30.11	-24	43	43	-2	NW	4	OT	3	48	43	0.12	
Belmullet ...	30.22	46	WSPW	3	0	30.14	-21	42	40	-5	NW	1	0	*	48	42	0.16	
Donaghadee ...	30.29	45	W	3	bc	30.12	-26	42	42	-1	WSPW	2	C	1	47	41	-	
SPAIN.																		
Liverpool (Bidston)	30.36	44	SPW	1	0	30.19	-23	42	39	0	SPW	1	0	2	47	41	-	
Holyhead ...	30.35	45	SPW	2	0	30.18	-25	43	42	0	SPW	2	OT	2	47	44	-	
Parsonstown ...	?	?	?	?	?	30.15	-28	40	39	-1	Z	0	0	*	47	40	-	
Valencia ...	30.33	47	SPW	3	0	30.17	-29	44	43	0	Z	0	C	2	48	42	0.13	
Roche's Point ...	30.36	45	W	2	C	30.18	-30	43	41	+6	WSPW	1	C	3	48	37	0.01	
ITALY.																		
Pembroke (St. Ann's Hd.)	30.38	44	SPW	2	0	30.22	-26	39	39	+1	E	1	bc	1	49	36	-	
Scilly ...	30.37	42	E	1	0	30.22	-25	40	38	-3	ENE	1	bc	3	48	39	-	
Prawle Point ...	30.40	38	N	2	0	30.22	-27	33	33	-2	N	2	bc	1	50	33	-	
Jersey (St. Aubin's)	30.37	44	ENE	3	0	30.19	-27	37	36	-5	ENE	2	bc	2	48	34	-	
Hurst Castle ...	30.40	42	NNW	1	0	30.22	-27	34	32	0	NNE	2	bc	1	46	31	-	
PORTUGAL.																		
Dungeness ...	30.37	41	Z	0	0	30.19	-25	38	36	+8	ENE	3	bc	1	45	29	-	
London ...	30.39	37	N	1	0	30.22	-25	31	31	+2	NW	1	f	*	45	29	-	
Oxford ...	30.38	36	SPW	1	C	30.24	-25	28	28	-1	Z	0	bc	*	48	26	-	
Cambridge ...	30.38	39	W	1	C	30.23	-24	34	33	+4	SPW	1	0	*	49	28	-	
Yarmouth ...	30.37	41	W	1	0	30.21	-19	35	34	+2	Z	0	bc	2	44	31	-	
AFRICA.																		
Cuxhaven ...	30.36	35	SPW	2	C	30.29	-03	33	32	-1	SPW	1	f	*	40	32	-	
Berlin ...	30.42	35	SPW	2	0	30.35	-02	32	31	-1	SPW	3	0	*	36	30	-	
Wiesbaden ...	*	*	*	*	*	30.23	-21	30	29	+2	E	4	0	*	34	25	-	
Munich ...	30.34	16	NE	3	0	30.15	-23	20	20	+13	E	5	m	*	20	7	-	
The Helder ...	30.37	39	SPW	1	0	30.25	-15	29	29	-10	SPW	1	f	1	45	28	-	
ASIA.																		
Brussels (9 a.m.)	*	*	*	*	*	30.22	-24	26	26	-5	E	2	0	*	40	26	-	
Cape Gris Nez ...	?	?	?	?	?	?	?	33	31	?	E	2	0	2	45	32	-	
Paris ...	30.36	36	NE	2	0	30.17	-25	26	26	-7	N	1	bc	*	39	25	-	
Brest ...	?	43	NE	1	0	?	?	38	36	-6	ENE	2	bc	2	32	36	-	
Lorient ...	30.31	46	ENE	3	0	30.15	-24	35	33	-10	ENE	2	bc	2	46	34	-	
AUSTRALIA.																		
Rocheport ...	30.29	39	ENE	5	0	30.18	-17	30	29	-3	E	4	m	2	45	23	-	
Belfort ...	30.22	26	SE	1	0	30.06	?	24	16	+1	SE	2	0	*	37	20	-	
Lyons ...	30.29	28	ENE	1	0	?	?	21	21	-5	?	9	m	*	38	21	-	
Nice ...	30.16	31	W	1	0	30.10	-14	35	32	+1	ENE	4	bc	1	46	?	-	
Perpignan ...	30.19	39	Z	0	0	30.13	-15	28	28	-1	SPW	1	m	*	50	27	-	
Barritz ...	30.17	44	ENE	2	0	30.06	-17	38	35	0	S	2	bc	3	50	34	-	
AMERICA.																		
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, 4th February,

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 February.

During the 15 Years: 1871—1885.

STATIONS.	MEAN READINGS.
Sumburgh Head	29.713
Stornoway	29.700
Wick	29.737
Nairn	29.747
Aberdeen	29.780
Leith	29.803
Shields	29.847
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Loughborough	29.912
Ardrossan	29.905
Donaghadee	29.812
Holyhead	29.848
Liverpool	29.873
Parsonstown	29.834
Valencia	29.850
Roche's Point	29.850
Pembroke	29.875
Silly	29.911
Jersey	29.975
Hurst Castle	29.944
Dover	29.967
LONDON	29.949
Oxford	29.938
Cambridge	29.935
Yarmouth	29.928

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

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

WEATHER—is shown by Letters of the Beaufort Scale.

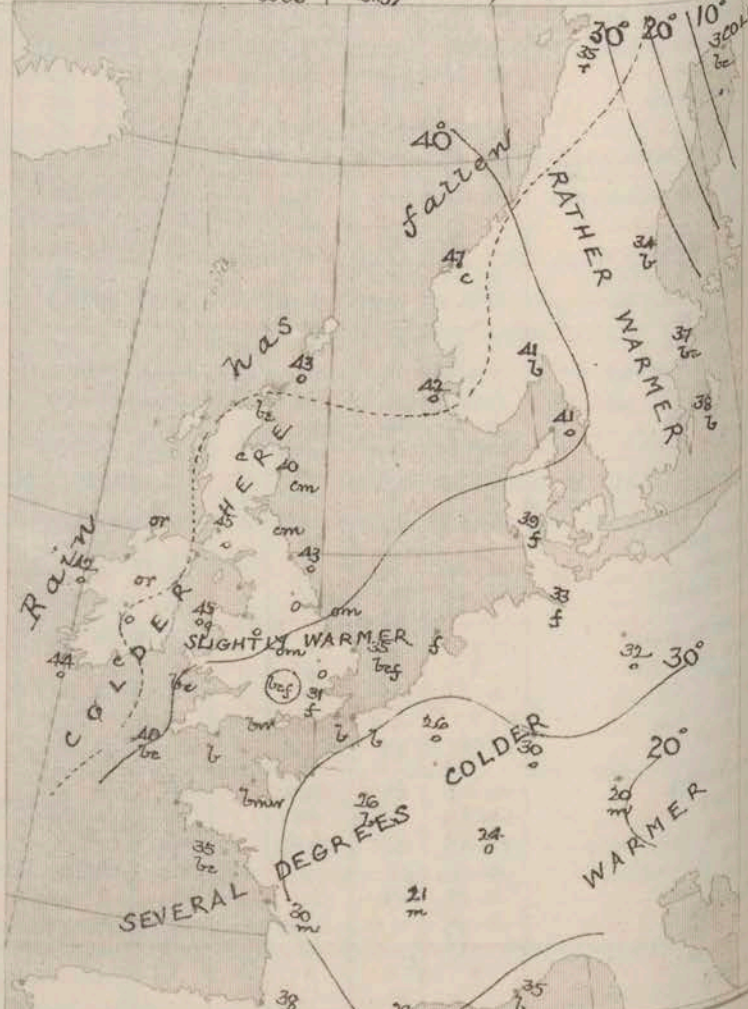
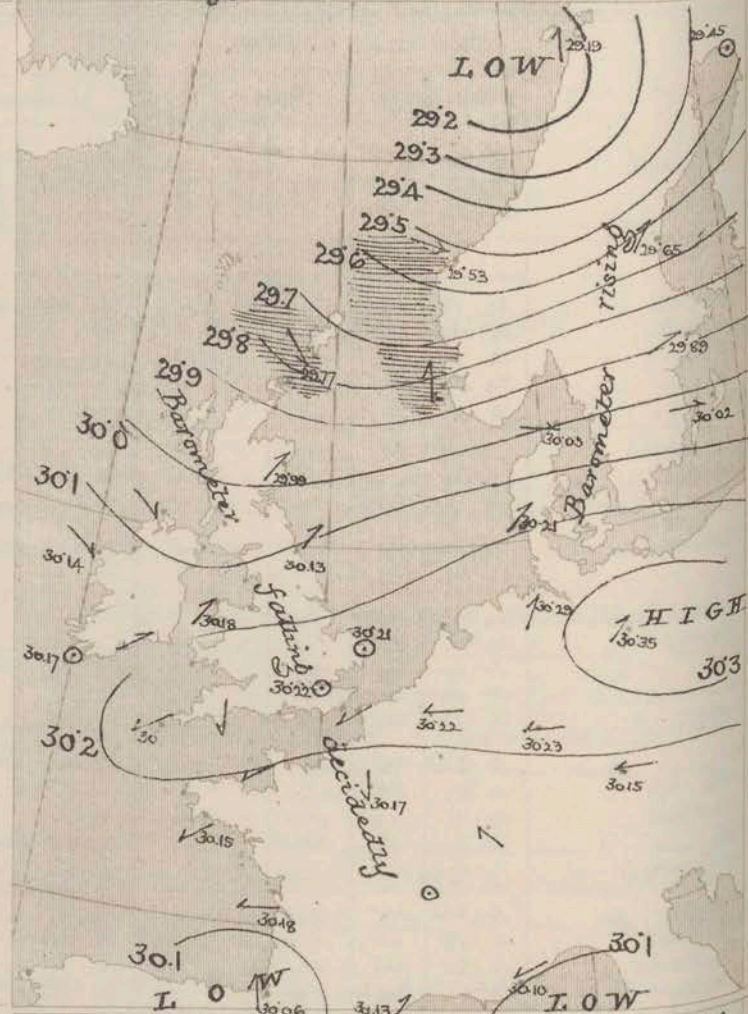
RAINFALL—A dotted line separates the districts in which rain has fallen from those where there has been none. Falls of 0.5 in. or more, are quoted in figures.

MEANS OF TEMPERATURE IN SHADE, AND RAINFALL.

(For the month of February.)

STATIONS.	TEMPERATURE.				RAINFALL (Inches.)
	Daily Max.	Daily Min.	at 8 a.m. Dry.	Wet.	
Sumburgh Head	42.6	34.7	38.7	37.7	3.29
Stornoway	43.5	34.7	39.3	38.2	3.97
Wick	43.4	33.5	38.4	37.0	2.02
Nairn	43.4	33.8	37.4	35.7	1.51
Aberdeen	43.5	34.2	37.8	36.2	2.51
Leith	46.6	34.7	39.2	37.7	1.58
Shields	44.3	35.7	39.2	37.9	1.63
York	45.3	34.2	38.2	37.1	1.88
Loughborough	46.0	34.5	38.4	37.3	2.00
Ardrossan	45.0	36.7	40.0	38.6	3.47
Donaghadee	45.8	37.0	40.7	39.7	2.71
Holyhead	46.1	39.3	42.3	40.8	2.90
Liverpool	45.3	36.9	39.9	38.5	1.85
Parsonstown	47.4	36.1	40.1	38.8	2.45
Valencia	50.2	40.8	45.1	43.4	5.29
Roche's Point	48.9	40.0	43.6	42.2	4.86
Pembroke	46.2	40.3	43.1	41.9	3.20
Silly	49.7	43.7	46.9	45.3	2.98
Jersey	47.6	40.1	43.2	42.0	2.72
Hurst Castle	46.5	37.9	41.3	40.4	2.63
Dover	45.4	37.4	40.3	39.1	2.12
LONDON	45.9	36.0	39.7	38.6	1.89
Oxford	45.9	35.9	38.8	37.7	2.06
Cambridge	46.4	33.9	38.3	37.3	1.60
Yarmouth	43.5	35.2	38.0	38.2	2.02

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



GENERAL SITUATION AT 8 A.M.

PRESSURE

Highest, 30.2 ins: to 30.3 ins: and more, over the south of England, the north of France and North Germany.
Lowest, 30.1 ins: and less, in the southwest of France; 29.2 ins: to 29.5 ins: over the northwestern parts of Scandinavia.
Gradient very slight over the southern half of our area, moderate in the north.

TEMPERATURE

Barometer appears to have ceased falling in the southwest and south, but is still going ^{down} in the northwest and north of our islands.
Highest, Christiansund 47°, Holyhead 45°, Simsbury 44°, Nainiwal 43°, and Valencia 44°.
Lowest, 20° at Munich, 23° at Perpignan, 28° at Lyons and Oxford, 31° in London, 32° at Berlin.
 The changes since yesterday have been irregular. In London the thermometer fell to 23° in the shade and 22° on the grass early this morning.

WIND

Light W⁴ (SW) to NW over the northern parts of our islands.
 Light E⁴ to NE⁴ over the Bay of Biscay, France, and the Channel.
 Calms and variable airs prevail at our inland stations. S⁴ air in Holland.

WEATHER

Dull over the northern half of our islands and in Norway, with rain in several places, foggy or fine in the south, and over the Netherlands. Very fine in Sweden and many parts of France.
 In London thick fog prevails, but over the Channel the air is only hazy.

SEA

Rough at the extreme northern stations, slight or smooth elsewhere.

PROBABLE CHANGES IN SYSTEM NOW PREVALENT

A continuation of high and uniform pressure is probable in the south accompanied by calms, clear skies in some places, thick fog in others.

FORECASTS

For the 24 hours ending at NOON on 5TH FEB. 1890.

DISTRICTS.

FORECASTS.

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

W⁴ and NW⁴ breezes, light; fair colder, hazy.

Calms and Variable airs; colder, foggy.

Calms and E⁴ airs; foggy.

DISTRICTS.

FORECASTS

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

SW⁴ to NW⁴ breezes, light; slight rain then finer and colder.

Same as No 3 and 4.

NW⁴ or N⁴ airs; colder, hazy.

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				THER:		WIND		WEA.	SEA
		D.	W.	D.	F.						D.	W.	D.	F.		
Skudesnes	30.36	45	44	W	2	o	5	Holyhead	...	30.39	46	45	SW	2	og	2
Sumburgh Head	29.86	47	45	W	6	c	6	Valencia	...	30.39	48	46	SW	3	o	4
Stornoway	30.01	48	48	SW	5	o	5	Scilly	...	30.41	46	42	E	1	bc	3
Aberdeen	30.13	51	45	SW	2	bc	2	Jersey	...	30.42	48	43	NE	4	bc	0
Shields	30.27	49	45	WSW	3	c	2	Dungeness	...	30.41	45	41	L	0	m	8
Ardrossan	30.28	45	45	SW	3	o	3	London	...	30.41	45	41	W	1	bc	2
Malin Head	30.24	45	45	SW	4	of	4	Yarmouth	...	30.38	44	42	W	2	bc	2
Mullaghmore	30.29	48	45	SW	4	om	3	Rochefort	...	30.34	41	37	ENE	5	bc	2
Belmullet	30.29	43	47	SW	3	bc	*									

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

Weather fine over Southeastern Central, and Western Europe, as well as England, and several of the Swedish stations, dull in the extreme west and north of our Islands and in Norway, with rain in several places; snow reported at Kuopio, Moscow. Rain thunder and lightning at the Algerian stations. Some rain later in Norway, the Shetlands, and Iceland.

Temperature highest, 50° and more, over the southeastern parts of the Mediterranean, and ranging between 40° and 50° on the coast of Norway, the British Isles, Brittany and Spain. Below the freezing point over Northern, Eastern, and Central Europe and Central Spain; lowest morning values -1° at Hermannstadt, +1° at Munich, 9° at Cracow, 12° at Lemberg, 19° at Kiev, 22° at Archangel, 25° at Moscow, Oxford and in London. No important change later.

Wind mainly E over the northern parts of the Mediterranean, very light and variable over Central Europe, NE over the Channel, France, and the Bay of Biscay. Light SW breezes prevalent over the northern half of the United Kingdom, W gales in the Shetlands and west of Norway, fresh to strong W breeze over the Baltic.

Barometer 30.3 ins. to about 30.5 ins. over Ireland, England, central and southeastern Europe, highest of all 30.6 ins. at Hermannstadt; lowest 29.1 ins. and less, in a depression over the north of Finland, 29.2 ins. and less, off the northwest of Norway, and 30.0 ins. and less, in a complex depression lying over Eastern Algeria, Italy and the southern parts of Scandinavia. Falling over Western Europe later, and large depression approaching Lapland from the SW.

General remarks on the Weather over Europe for the 24 hours ending 8 am on Feb 2nd 1800

Weather fine and bright over southwestern and southern Europe, and in many parts of Germany and France, cloudy or overcast elsewhere, with snow in several parts of Finland and Lapland, and wet mists in the British Isles. Rain over Ireland and Scandinavia later, slight falls in some parts of Scotland, England and Russia, and considerable falls over western Algeria.

Temperature highest in the extreme south and west, lowest over Central Europe and northern Russia. Exceeding 50° at Brindisi, Malta, Lisbon and Corunna and falling but little short of that value over the British Isles, exceeding 40° even in the west of Norway. Below the freezing point over the whole of northern, eastern and central Europe and as low as (1) -30° F. at Archangel, 10° at Moscow, 11° at St. Petersburg, 15° at Kuopio and 19° at Kharkov, (2) 13° at Munich, 21° at Vienna, 24° at Lyons, 25° at Berlin, and 28° at Paris. Very mild over the British Isles all day, with damp air.

Wind NE to E over the Mediterranean, strong at the northern stations; N and NE, light, over the Bay of Biscay and France, SW, light to moderate, over the British Isles and blowing a gale from WSW over the half of Norway. Becoming strong from S. at Valencia later, but gale in Norway subsiding.

Barometer highest 30.3 ins. to 30.5 ins. and more in a high-pressure area lying over Germany, France and the southern parts of the British Isles; lowest 29.5 ins. and less over Lapland, 29.8 ins. and less off our extreme northwestern coasts, and 29.9 ins. and less in a shallow depression lying over Scilly and Malta. Latter disturbance filling up later, but large depression approaching 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).

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

DAILY WEATHER REPORT.

for Wednesday 5th February

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. Reading at 32° F. and Sea Level.	TEMP. Dry.	WIND.		Weather.	BAROMETER.		SHADE TEMP.			WIND.		Weather.	Sea. (0 to 3.)	SHADE TEMP.		Amount of Rainfall.	
			Dir.	Force. (0 to 12.)		Reading at 32° F. and Sea Level.	Difference from 8 a.m. yesterday.	Dry.	Wet.	Difference from 8 a.m. yesterday.	Dir.	Force. (0 to 12.)			Max.	Min.		
SCANDINAVIA.																		
Haparanda ...	29.28	29	SW	2	b	29.37	-0.06	21	21	+1.8	W	2	bc	*	30	-4	-	
Hernösand ...	29.65	38	W	0	bc	29.76	+0.11	30	28	-4	W	0	b	*	41	28	-	
Stockholm ...	29.86	39	W	6	c	29.88	-0.01	39	37	+2	W	2	o	*	46	36	-	
Wisby ...	29.95	38	WPN	4	b	29.95	-0.07	38	37	0	WPN	4	o	*	41	36	-	
Bodo ...	29.32	39	WPN	6	o	29.41	+0.22	35	31	0	WPN	6	c	3	39	30	-	
CHRISTIANIA.																		
Christiansund	29.74	38	W	8	s	29.71	+0.18	37	35	-1.0	WPN	9	r	6	41	36	1.18	
Skudenes ...	30.00	40	W	0	bc	30.04	+0.04	36	36	-6	NW	1	o	3	43	36	-	
Christiania Fjord (Farrier)	29.91	41	SW	5	o	29.93	-0.02	39	35	-2	NW	2	o	2	41	37	-	
Skagen (The Scaw)	29.99	40	WPN	2	m	29.93	-0.12	40	40	-1	SW	2	f	1	43	?	-	
Fanö ...	30.10	37	SW	1	c	30.02	-0.19	35	35	-4	W	0	o	*	39	?	-	
SCOTLAND.																		
Sumburgh Head	29.93	41	W	3	b	29.94	+0.17	42	40	-1	WPN	3	c	5	45	38	0.04	
Stornoway ...																		
Wick ...	30.04	36	W	0	b	30.05	+0.13	37	35	-4	W	2	b	1	45	32	-	
Nairn ...	30.08	37	W	1	b	30.12	+0.18	36	34	-7	WPN	1	b	1	44	33	-	
Aberdeen ...	30.10	38	WNW	2	bc	30.17	+0.18	32	29	-8	SW	2	bm	2	47	30	-	
ENGLAND.																		
Leith ...	30.09	44	W	1	c	30.21	+0.16	35	34	-9	W	1	bm	*	47	31	-	
Shields ...	30.07	46	WNW	2	o	30.18	+0.05	36	34	-7	NW	2	b	2	45	35	0.01	
Spurn Head ...	30.06	41	WNW	1	c	30.11	-0.07	43	42	+2	N	4	c	3	43	?	0.03	
York ...	30.11	43	SW	1	o	30.17	-0.01	40	39	-2	NNW	1	o	*	45	39	-	
Loughborough	30.11	42	WPN	1	o	30.13	-0.09	42	41	+5	NNE	3	ogmd	*	44	37	-	
IRELAND.																		
Ardrossan	30.13	44	W	1	o	30.23	+0.16	32	32	-13	NE	1	bm	0	45	31	-	
Malin Head ...	30.15	42	NNW	2	b	30.23	+0.15	39	38	-4	WPN	2	b	3	44	39	-	
Mullaghmore ...	30.19	42	NNE	4	bc	30.28	+0.17	37	35	-6	WPN	1	b	3	46	33	0.05	
Belmullet ...	30.21	35	NW	3	bc	30.31	+0.17	36	35	-6	SE	2	b	*	46	32	-	
Donaghadee ...	30.15	42	NW	2	o	30.26	+0.14	34	34	-8	W	2	b	0	45	32	0.02	
WALLES.																		
Liverpool (Bidston)	30.13	43	W	1	o	30.20	+0.01	37	36	-5	N	2	b	3	46	37	0.01	
Holyhead ...	30.13	44	WPN	1	c	30.23	+0.05	42	38	-3	NNE	4	b	3	48	42	0.04	
Parsonstown ...	30.17	41	W	0	o	30.30	+0.15	26	26	-14	W	0	b	*	45	25	0.04	
Valencia ...	30.22	43	NNE	3	o	30.32	+0.15	37	35	-7	W	0	b	1	46	34	0.03	
Roche's Point...	30.15	45	NNW	4	cm	30.27	+0.09	39	36	-4	N	4	b	3	46	35	0.02	
SCOTLAND.																		
Pembroke (St. Ann's Hd.)	30.14	42	NE	1	r	30.18	-0.04	41	40	+2	NE	4	bc	2	46	38	0.04	
Scilly ...	30.12	45	N	4	bc	30.14	-0.08	45	44	+5	NE	4	bc	5	48	39	0.02	
Prawle Point ...	30.13	37	NE	3	b	30.13	-0.09	39	38	+6	N	3	og	2	52	33	-	
Jersey (St. Aubin's)	30.07	44	NNE	3	bm	30.09	-0.10	44	40	+7	N	3	ogm	3	47	36	-	
Hurst Castle ...	30.10	38	NNE	1	cm	30.10	-0.12	41	39	+7	NE	2	ogm	1	45	33	-	
ENGLAND.																		
Dungeness	30.04	41	ESE	3	bc	30.02	-0.17	39	38	+1	NE	3	mg	2	44	31	-	
London ...	30.10	34	NE	2	o	30.07	-0.15	40	39	+9	N	1	og	*	41	29	-	
Oxford ...	30.11	38	WNW	1	o	30.11	-0.13	40	39	+12	NW	2	b	*	45	28	0.02	
Cambridge	30.09	38	NW	1	o	30.09	-0.14	40	39	+6	N	1	o	*	48	33	-	
Yarmouth	30.09	40	N	1	cf	30.04	-0.17	40	39	+5	N	1	f	2	42	33	-	
FRANCE.																		
Cuxhaven	30.17	30	SE	1	f	30.04	-0.25	30	30	-3	W	0	o	*	34	29	-	
Berlin ...	30.19	29	SW	2	b	30.06	-0.29	27	26	-5	W	2	o	*	34	27	-	
Wiesbaden ...						30.07	-0.16	23	22	-7	W	0	o	*	34	23	-	
Munich ...	30.05	17	W	0	b	30.02	-0.13	15	15	-5	E	4	f	*	28	10	-	
The Helder	30.09	34	ESE	1	f	30.05	-0.20	32	31	+3	ESE	1	c	1	34	28	-	
NETHERLANDS.																		
Brussels (9 a.m.)	*	*	*	*	*	30.05	-0.17	28	27	+2	NNW	3	o	*	31	2	-	
Cape Gris Nez	*	*	*	*	*	30.04	-0.13	35	34	+2	SE	1	r	1	43	30	0.04	
Paris ...	30.06	33	ESE	1	o	30.04	-0.13	32	30	+6	NW	1	o	*	34	?	-	
Brest ...	30.06	43	NE	1	bc	30.06	-0.09	38	37	+3	NE	1	o	2	52	36	-	
Lorient ...	30.06	44	NE	3	bc	30.06	-0.09	38	37	+3	NNE	3	c	2	46	32	-	
FRANCE AND BELGIUM.																		
Rocheport	30.12	33	ESE	3	b	30.11	-0.07	29	29	-1	NE	2	b	2	41	23	-	
Belfort ...																		
Lyons ...	30.09	33	W	1	c	30.04	?	32	31	+11	ESE	1	o	*	38	?	-	
Nice ...	30.04	41	WNW	4	c	29.97	-0.13	35	31	0	ESE	4	b	1	50	32	-	
Perpignan	30.06	40	W	0	o	30.04	-0.09	30	29	+2	SW	1	o	*	48	?	-	
Biarritz ...	30.02	48	NW	3	c	30.02	-0.04	45	42	+7	SW	4	r	2	52	?	0.16	
SPAIN.																		
Corunna ...																		
Lisbon ...	30.01	48	NE	2	bc	30.02	-0.02	44	41	-1	N	4	b	5	52	43	0.02	

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, 5th February,

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 February.
During the 15 Years: 1871—1885.

STATIONS.	MEAN READINGS.
Sumburgh Head	29.713
Sornoway	29.700
Wick	29.737
Nairn	29.747
Aberdeen	29.780
Leith	29.803
Shields	29.847
York	29.884
Loughborough	29.912
Ardrossan	29.905
Donaghadee	29.812
Holyhead	29.848
Liverpool	29.873
Parsonstown	29.834
Valencia	29.850
Roche's Point	29.850
Pembroke	29.875
Selly	29.911
Jersey	29.975
Hurst Castle	29.944
Dover	29.957
LONDON	29.949
Oxford	29.938
Cambridge	29.935
Yarmouth	29.928

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

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

WEATHER is shown by Letters of the Beaufort Scale.

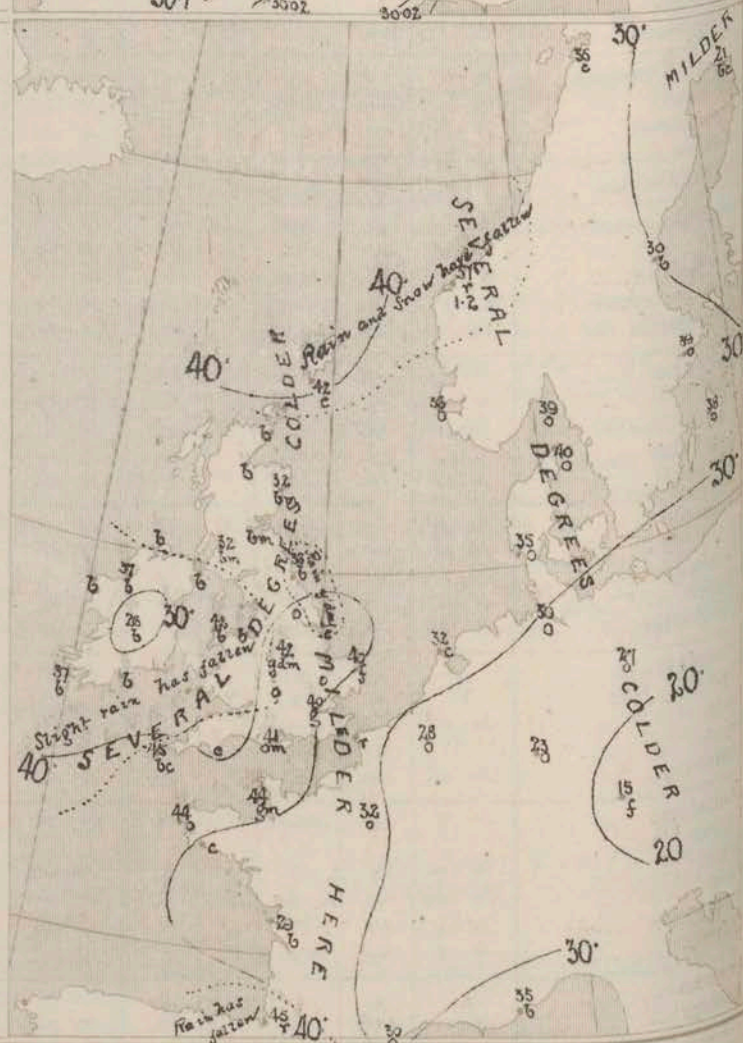
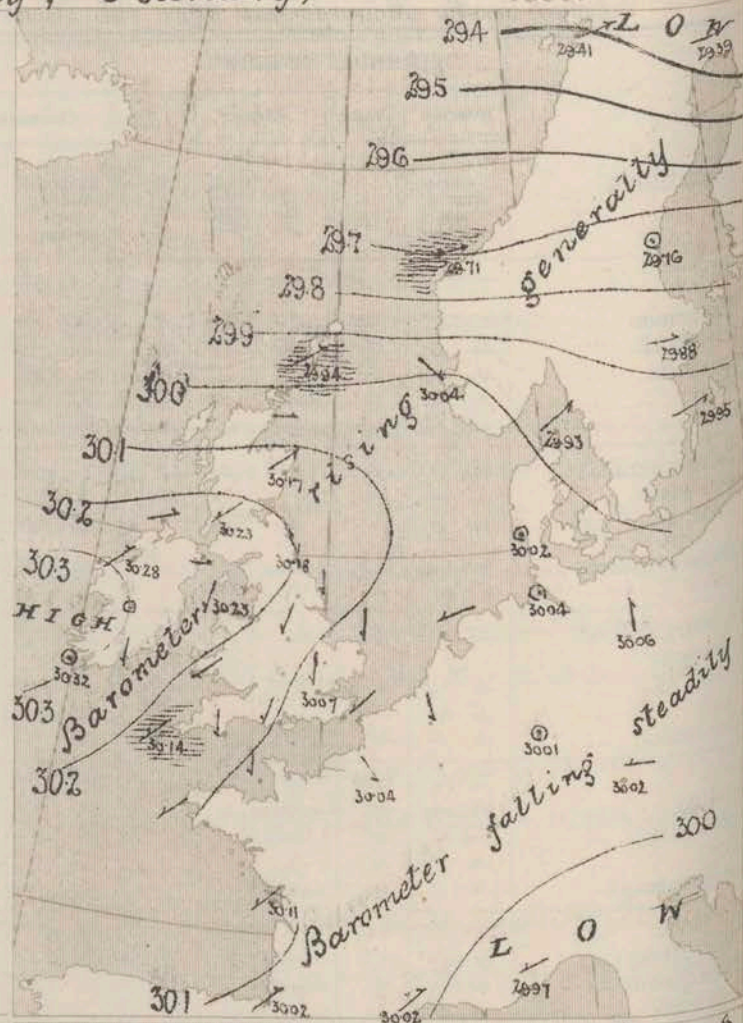
RAINFALL—A dotted line separates the districts in which rain has fallen from those where there has been none. Falls of 0.5 in. or more, are quoted in figures.

MEANS OF TEMPERATURE IN SHADE, AND RAINFALL.

(For the month of February.)

STATIONS.	TEMPERATURE.				RAINFALL (Inches.)
	Daily Max.	Daily Min.	at 8 a.m. Dry.	at 8 a.m. Wet.	
Sumburgh Head	42.6	34.7	38.7	37.7	3.29
Sornoway	43.5	34.7	39.3	38.2	3.97
Wick	43.4	33.5	38.4	37.0	2.02
Nairn	43.4	33.8	37.4	35.7	1.51
Aberdeen	43.5	34.2	37.8	36.2	2.51
Leith	46.6	34.7	39.2	37.7	1.58
Shields	44.3	35.7	39.2	37.9	1.63
York	45.3	34.2	38.2	37.1	1.88
Loughborough	46.0	34.5	38.4	37.3	2.00
Ardrossan	45.0	36.7	40.0	38.6	3.47
Donaghadee	45.8	37.0	40.7	39.7	2.71
Holyhead	46.1	39.3	42.3	40.8	2.90
Liverpool	45.3	36.9	39.9	38.3	1.85
Parsonstown	47.4	36.1	40.1	38.8	2.45
Valencia	50.2	40.8	45.1	43.4	6.29
Roche's Point	48.9	40.0	43.6	42.2	4.86
Pembroke	46.2	40.3	43.1	41.9	3.20
Selly	49.7	43.7	46.9	45.3	2.98
Jersey	47.6	40.1	43.2	42.0	2.72
Hurst Castle	46.5	37.9	41.3	40.4	2.63
Dover	45.4	37.4	40.3	39.1	2.12
LONDON	46.9	36.0	39.7	38.6	1.89
Oxford	45.9	35.9	38.8	37.7	2.06
Cambridge	46.4	33.9	38.3	37.3	1.60
Yarmouth	43.5	35.2	38.9	38.2	2.02

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



GENERAL SITUATION AT 8 A.M.

PRESSURE

Highest, 30.3 ins. and more, over the west of Ireland.

Lowest, 29.4 ins. and less, over the north of Scandinavia, and 29.3 ins. and less over Northern Italy.

Gradients moderate over the north of Scandinavia, slight elsewhere. Barometer rising except over France, Germany, and the southeast of England.

TEMPERATURE

Highest, 45° at Biarritz and Seilly, 44° at Jersey and Brest, and 42° at Sumburgh Head and Loughborough.

Lowest, 15° at Kilmich, 21° at Haparanda, 24° at Lyons, 25° at Paris, and 26° at Berlin.

It is falling except in the south and southeast of England.

WIND

Strong to gale from WSW in the west of Norway, light from the W. in Scotland and the north of Ireland, but light from N. or NE. at most of the French and English stations.

WEATHER

Dull, damp, and misty in the southeast of England, as well as over Germany, the north of France and the greater part of Scandinavia, but very fine and bright elsewhere.

Slight rain has fallen at several of the western stations, and at Christiansund more than an inch of rain and snow has been measured.

SEA

Rough at Christiansund, rather so at Sumburgh Head and Seilly, slight or smooth elsewhere.

PROBABLE CHANGES IN SYSTEM NOW PREVALENT

The anticyclone in the west appears to be spreading slowly over us, and fair weather seems probable in most districts, but in the east and southeast of England conditions are not settled in consequence of very slight depressions appearing off our east coast.

NOTE.

Owing to an unforeseen accident the issue of Monday's Report was delayed nearly a whole day.

FORECASTS

For the 24 hours ending at NOON on 6th FEB^{ry} 1890.

DISTRICTS.

FORECASTS.

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

Wth and SWth winds, light, fair generally.

Nth and NEth winds, light or moderate; dull, slight rain occasionally.

NEth winds, light and moderate; dull, damp, misty, some slight rain.

DISTRICTS.

FORECASTS

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

Varying Wth breezes; fair generally.

Nth and NEth winds, moderate; fair generally.

Same as N^o 6 and 7.

Same as N^o 8.

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		WEA.	SEA		THER:		WIND		WEA.	SEA
	BAR:	D.	W.	D.	F.			BAR:	D.	W.	D.	F.	
Skudesnaes ...	29.95	43	42	SW	4	of	5	Holyhead ...	30.14	44	42	WPN	1
Sumburgh Head ...	29.89	43	39	NW	3	bc	6	Valencia ...	30.18	46	42	N	3
Stornoway ...	30.03	44	43	W	3	c	3	Scilly ...	30.15	46	43	N	2
Aberdeen ...	30.06	45	40	NW	2	c	2	Jersey ...	30.11	46	41	NE	3
Shields ...	30.07	47	43	W	2	o	2	Dungeness ...	30.08	44	40	ENE	3
Ardrossan ...	30.09	45	43	W	3	o	2	London ...	30.12	38	37	2	0
Malin Head ...	30.12	44	40	N	3	o	4	Yarmouth ...	30.12	42	41	W	1
Mullaghmore ...	30.14	45	41	NNW	4	on	3	Rocheport ...	30.15	33	32	ENE	4
Belmullet ...	30.18	46	42	NNW	3	bc	*						

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

Weather fine and bright over Southwestern and Southern Europe, the greater part of France, the south of England and also in Sweden, cloudy or dull elsewhere; fog at the Dutch stations, as well as in several localities in the southeast of England, rain in the South at Limerick, also in the northwestern parts of our Islands and in Norway; snow at Moscow.

Temperature risen over Eastern Germany, Poland, and Southern Russia, fallen over Lapland and Finland. Highest morning values 50° at Malta only, 48° at La Caba and San Fernando, 47° at Christiansund, 45° at Ardrossan, 44° at Leith and Valencia, and 43° at Sumburgh Head, Mullaghmore, Rockabint and Shields. Below the freezing point over nearly all the inland districts, including the southern counties of England, and as low as (1) 3° at Haparanda, 2° at Alsborg, and 2° at Archangel; (2) -1° at Hermannstadt, +15° at Kharkov, 20° at Munich, and 21° at St. Petersburg. At Paris and Brussels the temperature was 26°, at Oxford and Perpignan 28°, and in London 31°.

Winds continuing E^{ly} to NE^{ly} over Southern and Southwestern Europe, NE^{ly} over the Channel and Bay of Biscay, very variable (anticyclonic) over Austria-Hungary, and the South of Russia. W^{ly} and SW^{ly} breezes still prevalent over the more northern countries, but of very little strength at Irish and Scotch stations, where they tended to veer NW^{ly}.

Barometer highest 30.3 ins. to 30.5 ins. over the southwest of Russia, Austria-Hungary, and Germany, and exceeding 30.2 ins. in a band stretching westwards from North Germany across the Netherlands and the south of England to the Atlantic off our southwestern coasts. New anticyclone appearing in the west later, but barometer falling over Central Europe.

EXPLANATION OF COLUMNS GIVEN ON PAGE 1.

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

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

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

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

DAILY WEATHER REPORT.

for THURSDAY 6th FEBRUARY 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 6.)	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 ...	29.52	15	W	2	C	29.84	+45	6	6	-15	W	0	bc	*	30	?	-	
Hernösand ...	29.76	31	NW	2	C	30.01	+25	28	25	-2	NNW	2	C	*	39	25	-	
Stockholm ...	29.83	33	W	2	C	30.01	+13	28	25	-11	NW	2	C	*	45	?	-	
Wisby ...	29.91	37	NW	4	C	29.95	0.0	34	31	-4	N	6	C	*	39	?	0.04	
Bodö ...	29.64	34	N	2	C	29.89	+48	30	28	-5	S	2	0	1	34	27	-	
SCANDINAVIA.																		
Christiansund ...	29.94	36	WNW	3	bc	30.03	+32	35	36	+2	WPN	5	0	5	39	34	0.32	
Skudesnaes ...	30.04	41	WNW	2	C	30.24	+20	36	35	0	NNW	2	C	3	45	36	-	
Christiania Fjord (Færder)	29.94	40	W	3	C	30.20	+27	36	33	-3	NNE	3	C	1	41	36	-	
Skagen (The Seaw)	30.02	36	NNW	1	C	30.13	+20	36	34	-4	NE	2	C	1	41	34	-	
Fanø ...	30.09	34	NW	2	C	30.15	+13	37	37	+2	NW	2	C	*	39	34	-	
SCANDINAVIA.																		
Sumburgh Head	30.05	43	WNW	2	C	30.18	+24	45	43	+3	W	3	C	4	47	41	0.07	
Stornoway ...	30.17	42	SW	4	C	30.24	+17	38	38	-3	SW	3	0	3	47	35	0.02	
Wick ...	30.13	40	NW	1	bc	30.27	+22	37	36	0	W	1	0	1	45	33	0.02	
Nairn ...	30.19	42	W	0	C	30.26	+14	38	36	+2	W	0	bc	1	46	34	-	
Aberdeen ...	30.21	38	WPN	1	C	30.32	+15	34	33	+2	WPN	1	bc	1	47	32	-	
SCANDINAVIA.																		
Leith ...	30.23	41	WPN	1	C	30.33	+12	29	29	-6	W	0	bc	*	45	26	-	
Shields ...	30.23	41	NNE	1	C	30.32	+14	35	34	-1	WNW	1	m	2	47	31	-	
Spurn Head ...	30.21	42	NNE	4	bc	30.27	+16	40	40	-3	N	3	om	3	44	34	-	
York ...	30.25	36	NNE	1	C	30.31	+14	30	30	-10	N	1	0	*	45	27	-	
Loughborough	30.24	39	NNW	2	C	30.30	+17	28	27	-14	NW	1	cf	*	45	27	0.01	
SCANDINAVIA.																		
Ardrrossan ...	30.26	45	W	0	C	30.32	+09	32	32	0	W	0	cf	0	47	31	-	
Malin Head ...	30.27	44	WNW	3	C	30.30	+07	40	39	+1	W	1	om	2	46	39	0.02	
Mullaghmore ...	30.31	44	SW	2	Cm	30.32	+04	37	37	0	SE	3	C	3	46	36	0.07	
Belmullet ...	30.34	44	WPN	2	C	30.32	+01	37	36	+1	W	1	C	*	48	35	-	
Donaghadee ...	30.30	42	NW	3	bc	30.33	+07	38	38	+4	WNW	2	bc	0	47	34	-	
SCANDINAVIA.																		
Liverpool (Bidston)	30.27	40	NNW	1	C	30.32	+12	32	31	-5	SE	1	C	1	43	31	-	
Holyhead ...	30.29	44	NNE	2	bc	30.30	+07	37	37	-5	W	0	Cm	0	44	37	-	
Parsonstown ...	30.32	38	W	0	C	30.32	+02	32	31	+6	W	0	C	*	44	25	-	
Valencia ...	30.35	40	NNE	1	C	30.31	-01	32	32	-5	W	0	C	1	47	30	-	
Roche's Point...	30.32	36	NNE	2	C	30.28	+01	35	33	-4	NNE	2	C	3	47	32	-	
SCANDINAVIA.																		
Pembroke (St. Ann's Hd.)	30.25	41	NNE	3	C	30.28	+10	34	34	-7	ENE	2	C	1	45	33	-	
Silly ...	30.19	47	NE	5	0	30.21	+07	41	37	-4	NE	5	C	4	47	40	0.01	
Prawle Point ...	30.20	43	NE	4	0	30.21	+08	35	34	-4	NE	5	C	3	47	32	-	
Jersey (St. Aubin's)	30.13	45	NE	3	0	30.13	+04	40	39	-4	NE	4	om	3	48	39	0.02	
Hurst Castle ...	30.17	44	NE	3	Cm	30.21	+11	38	35	-3	NE	2	C	1	45	35	-	
SCANDINAVIA.																		
Dungeness ...	30.07	42	NE	4	P	30.17	+15	36	35	-3	E	5	om	3	42	35	0.15	
London ...	30.15	41	N	2	C	30.22	+15	36	35	-4	ENE	2	om	*	45	35	-	
Oxford ...	30.25	36	NNE	2	C	30.27	+16	28	28	-12	NE	1	C	*	44	28	-	
Cambridge ...	30.20	39	N	3	C	30.27	+18	37	33	-7	N	1	0	*	46	30	0.04	
Yarmouth ...	30.14	41	NNE	5	C	30.22	+18	40	38	0	ENE	4	C	4	42	33	0.02	
SCANDINAVIA.																		
Cuxhaven ...	30.09	32	W	0	C	30.17	+13	35	34	+5	W	0	C	*	36	?	-	
Berlin ...	30.08	30	WNW	2	0	30.16	+10	31	30	+4	WNW	2	0	*	?	27	-	
Wiesbaden ...	*	*	*	*	*	30.16	+09	22	21	-1	W	0	C	*	32	21	-	
Munich ...	30.02	17	W	0	m	30.04	+02	22	22	+7	E	4	m	*	27	14	-	
The Helder ...	30.16	34	NE	1	C	30.24	+19	35	35	+3	NE	1	bc	1	36	30	-	
SCANDINAVIA.																		
Brussels (9 a.m.)	*	*	*	*	*	30.21	+16	29	29	+1	ENE	2	0	*	33	27	-	
Cape Gris Nez	*	36	ERS	2	0	?	?	31	30	-4	ERS	4	0	4	41	30	-	
Paris ...	30.08	31	N	2	0	30.08	+04	31	29	-1	E	2	0	*	36	29	-	
Brest ...	?	44	NNE	1	m	?	?	39	37	-5	NE	1	C	1	52	36	0.12	
Lorient ...	30.11	44	NNE	1	0	30.07	+01	40	39	+2	NNE	3	bc	4	45	36	-	
SCANDINAVIA.																		
Rochefort ...	30.15	37	NE	3	C	30.10	-01	37	36	+8	N	3	0	2	41	27	-	
Belfort ...	29.95	29	SE	1	C	30.01	+08	23	16	+4	N	1	0	*	37	11	-	
Lyons ...	30.04	31	N	2	C	30.06	+02	29	27	-3	N	1	0	*	44	28	-	
Nice ...	29.91	42	ERS	2	bc	29.89	-02	37	32	+2	E	4	bc	1	50	?	-	
Perpignan ...	29.99	40	E	1	C	29.97	-02	38	36	+8	SW	1	0	*	35	?	-	
Biarritz ...	30.00	42	W	0	0	30.02	0.0	32	30	-13	ERS	2	0	2	45	?	0.35	
SCANDINAVIA.																		
Corunna ...	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
Lisbon ...	30.02	46	NNW	4	C	29.99	-03	43	41	-1	W	0	C	?	52	43	-	

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

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

for 8 a.m. on

Thursday, 6th February,

1890

EXPLANATION OF MAP

Abstracts are published in English.

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

SEA DISTURBANCE—Where considerable, is shown thus:

A hand-drawn weather map of Europe and the North Atlantic, showing isobars, pressure values, and weather conditions. The map includes handwritten notes like "Barometer rising", "Barometer falling slightly", and "Barometer rising slowly". It also features a large "L" for Low pressure and a "W" for West. The map is dated 29th 10 1904.

A hand-drawn map of the Pacific Northwest, including parts of British Columbia, Canada, and the United States. The map features several isotherms (lines of equal temperature) labeled with values such as 30, 35, 40, and 45. Key geographical features and weather-related notes are included:

- Isotherms:**
 - A line labeled "40°" runs from the top left towards the center, with a note "rain has fallen" near it.
 - A line labeled "30°" runs from the bottom left towards the center, with a note "Rain has fallen" near it.
 - A line labeled "35°" runs from the bottom center towards the right.
 - A line labeled "45°" is near the top center.
- Geographical Features:**
 - "COLD R" is written vertically along the right side of the map.
 - "PLACES" is written near the bottom center.
 - "MUCH COLDER" is written at the bottom left.
- Weather Notes and Data:**
 - "Night" is written near the top left.
 - "Rain has fallen" is written in two locations.
 - "Sun has fallen" is written near the top right.
 - Various numerical data points are scattered across the map, including "32", "37", "38", "39", "41", "45", "50", "55", "60", "65", "70", "75", "80", "85", "90", "95", "100", "105", "110", "115", "120", "125", "130", "135", "140", "145", "150", "155", "160", "165", "170", "175", "180", "185", "190", "195", "200", "205", "210", "215", "220", "225", "230", "235", "240", "245", "250", "255", "260", "265", "270", "275", "280", "285", "290", "295", "300", "305", "310", "315", "320", "325", "330", "335", "340", "345", "350", "355", "360", "365", "370", "375", "380", "385", "390", "395", "400", "405", "410", "415", "420", "425", "430", "435", "440", "445", "450", "455", "460", "465", "470", "475", "480", "485", "490", "495", "500", "505", "510", "515", "520", "525", "530", "535", "540", "545", "550", "555", "560", "565", "570", "575", "580", "585", "590", "595", "600", "605", "610", "615", "620", "625", "630", "635", "640", "645", "650", "655", "660", "665", "670", "675", "680", "685", "690", "695", "700", "705", "710", "715", "720", "725", "730", "735", "740", "745", "750", "755", "760", "765", "770", "775", "780", "785", "790", "795", "800", "805", "810", "815", "820", "825", "830", "835", "840", "845", "850", "855", "860", "865", "870", "875", "880", "885", "890", "895", "900", "905", "910", "915", "920", "925", "930", "935", "940", "945", "950", "955", "960", "965", "970", "975", "980", "985", "990", "995", "1000".

GENERAL SITUATION AT 8 A.M.

PRESSURE

Highest, 30.5 ins. and more, in an anticyclone lying over Ireland, the north of England, and south of Scotland.
 Lowest, 29.8 ins. and less, over the north of Scandinavia, and 29.9 ins. and less, over the Gulf of Genoa.
 Gradients are slight everywhere, especially over the United Kingdom and France.
 Barometer falling a little in the west of Ireland and at some of the southern French stations; rise continuing elsewhere.

TEMPERATURE

Highest, 45° at Lumburg Head, 43° at Lisbon, 41° at Sicily, and 40° at Jersey and Genoa.
 Lowest, 6° at Hafnarfjörður, 22° at Westbaden and Munich, 23° at Belfast, 26° over Central England.
 It has fallen in nearly all parts of Western Europe since yesterday.

WIND

Light from the Wnd or NWnd over Scotland, and the greater part of Scandinavia; light from the Snd in the north of Ireland; moderate from N. or NE. over France and England, but blowing somewhat freshly in the Channel.

WEATHER

Bull with occasional sleet showers in the southeast of England, but fine and bright in nearly all other places.
 Slight rain has fallen at some of the northern and southern stations.

SEA

Rather rough at Christiansund, moderate to smooth elsewhere.

PROBABLE CHANGES IN SYSTEM NOW PREVALENT

There are indications that the anticyclone will continue to move slowly to the northward, and that fair cold weather will prevail in most parts of the country. Over the southeastern district occasional cold showers may be experienced.

FORECASTS

For the 24 hours ending at NOON on 7th FEB^{RY} 1890.

DISTRICTS.

FORECASTS.

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

Wnd and SWnd winds, light; fair generally.
 Varying Nth breezes, light; fair generally, cold, some fog or mist locally.
 NEth breezes, moderate; fair generally, but some showers locally.

DISTRICTS.

FORECASTS

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

Sth and SWth winds, light to moderate; fair generally.
 Eth and NEth winds, fresh; fair generally.
 Sth and SEth winds, light to moderate; fair to dull, and perhaps 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		WEA.	SEA			THER:		WIND		WEA.	SEA
	BAR:	D.	W.	D.	F.				BAR:	D.	W.	D.	F.	
Skudesnaes ...	30.04	45	42	W	2	bc	3		Holyhead ...	30.28	44	40	NNE	3
Sumburgh Head ...	29.97	46	43	WNW	3	bc	5		Valencia ...	30.24	47	42	NE	2
Stornoway ...	30.14	47	46	W	3	c	1		Scilly ...	30.18	47	45	NNE	6
Aberdeen ...	30.17	46	40	SW	2	c	1		Jersey ...	30.11	45	42	NNE	3
Shields ...	30.21	45	40	N	2	c	2		Dungeness ...	30.07	40	39	SE	0
Ardrossan ...	30.24	45	43	SE	1	c	0		London ...	30.13	43	41	N	1
Malin Head ...	30.26	46	44	WNW	4	c	3		Yarmouth ...	30.09	42	41	N	4
Mullaghmore ...	30.31	46	43	SW	4	bc	2		Rocheport ...	30.15	36	34	NNE	3
Belmullet ...	30.33	47	43	WNW	2	c	*							

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

Weather fine and bright over the greater part of the United Kingdom and at most of the Mediterranean stations, cloudy or dull elsewhere, fog in some parts of Russia, Austria, and Bavaria, and rain at Copenhagen, Riga, and Palermo.

Temperature risen over Algeria, Spain, France, and the southern district of England, fallen in nearly all other places. Highest morning values 55° at Malta, 53° at Brindisi, 51° at Riga, 50° at Algiers, 49° at Sanguinac, 46° at Riga, and 42° at Sumburgh Head. Below the freezing point over nearly the whole of Russia, Germany and France, as well as over the Central part of Ireland. Lowest morning values 4° at Hermannstadt, 15° at Munich, and 18° at Moscow, 19° at Riga, and 21° at Archangel, Haparanda, and Umeå.

Winds Nth and NEth over England, and the greater part of France and Spain, very variable (anticyclonic) over the south of Russia, and (cyclonic) over Italy. Wth and SWth still prevailing over most of the northern countries, and light Sth over the north of Ireland.

Barometer highest 30.3 ins. over the west of Ireland and the south of Russia, and 30.1 ins. in a small anticyclone lying over Central Spain. Lowest 29.4 ins. over the north of Scandinavia, and 29.8 ins. in a well marked depression near Sicily. Anticyclone over Ireland moving slowly to the NEth later, and barometer rising in nearly all parts of Western Europe.

EXPLANATION OF COLUMNS GIVEN ON PAGE 1.

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

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

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

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DAILY WEATHER REPORT.

for FRIDAY 7TH FEBRUARY.

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.	SHADE TEMP.					
	Reading at 32° F. and Sea Level.	Dry.	Dir.	Force. (0 to 12.)			Dry.	Wet.	Difference from 8 a.m. yesterday.	Dire.	Force. (0 to 12.)			Max.	Min.	Amount of Rainfall.			
SCANDINAVIA.																			
Haparanda ...	29.88	7	2	0	c	29.39	-1.45	30	30	+2.4	W	4	bc	*	?	-2	-		
Hernösand ...	30.06	32	2	0	c	29.91	-1.10	30	30	+2	SWW	4	c	*	37	27	-		
Stockholm ...	30.25	29	W	2	c	30.16	+1.15	28	26	0	W	4	bc	*	36	27	-		
Wisby ...	30.25	35	N	4	c	30.25	+1.30	35	34	+1	W	4	c	*	39	32	-		
Bodo ...	29.64	42	WNW	8	T	29.57	-1.32	35	33	+5	WNW	8	m	5	43	27	0.20		
CHRISTIANIA.																			
Christiansund ...	30.13	43	SW	8	bc	30.14	+1.11	41	39	+2	WPN	7	o	5	43	39	0.08		
Skudesnaes ...	30.39	36	2	0	bc	30.45	+1.21	39	37	+3	SE	1	T	3	43	36	0.08		
Christiania Fjord ...	30.29	38	WPN	4	c	30.26	+0.6	33	31	-3	WPN	2	c	1	9	32	-		
Skagen (The Scaw) ...	30.36	35	2	0	c	30.30	+1.17	37	36	+1	WNW	3	c	3	37	32	-		
Faero ...	30.39	32	SE	2	f	30.49	+1.34	30	30	-7	NW	1	o	*	41	30	-		
SCOTLAND.																			
Sumburgh Head ...	30.26	40	WPN	2	o	30.37	+1.19	45	44	0	W	2	o	4	47	42	0.01		
Stornoway ...	30.29	44	SW	3	o	30.41	+1.17	40	40	+2	SW	4	c	4	47	36	-		
Wick ...	30.38	39	W	2	c	30.45	+1.18	37	35	0	W	2	c	0	48	33	-		
Nairn ...	30.34	41	2	0	c	30.48	+1.22	34	34	-4	2	0	c	0	50	33	-		
Aberdeen ...	30.39	37	SW	1	c	30.53	+1.21	31	30	-3	W	1	bm	1	45	31	-		
ENGLAND.																			
Leith ...	30.38	31	2	0	f	30.52	+1.19	28	28	-1	W	1	bcf	*	36	23	-		
Shields ...	30.37	42	NNE	1	o	30.49	+1.17	40	40	+5	NNE	2	o	2	44	33	-		
Spurn Head ...	30.33	41	NNE	3	bc	30.46	+1.19	38	37	-2	NE	3	o	3	44	37	0.01		
York ...	30.46	37	N	1	o	30.48	+1.17	36	36	+6	N	1	o	*	39	29	-		
Loughborough ...	30.34	37	N	2	o	30.46	+1.16	37	37	+9	NE	2	om	*	39	28	0.02		
IRELAND.																			
Ardsrossan ...	30.39	36	2	0	o	30.51	+1.19	31	31	-1	2	0	of	0	37	30	-		
Malin Head ...	30.36	42	2	1	c	30.49	+1.17	39	38	-1	2	1	bm	2	47	37	-		
Mullaghmore ...	30.36	38	2	0	c	30.47	+1.15	34	34	-3	E	4	o	4	44	32	-		
Belmullet ...	30.36	44	ENE	1	bc	30.47	+1.15	35	34	-2	E	1	c	*	48	34	-		
Donaghadee ...	30.39	40	NE	2	m	30.50	+1.17	41	40	+3	NNE	2	c	0	44	37	-		
Wales.																			
Liverpool (Bidston) ...	30.37	40	NE	1	o	30.47	+1.15	37	36	+5	ENE	1	of	2	41	31	-		
Holyhead ...	30.36	42	2	0	om	30.46	+1.16	40	39	+3	ENE	1	ogm	2	44	37	-		
Parsonstown ...	30.34	39	2	0	c	30.43	+1.11	37	36	+5	2	0	o	*	46	30	-		
Valencia ...	30.32	42	ENE	1	bm	30.40	+1.09	40	37	+8	NE	3	bcm	2	48	32	0.01		
Roche's Point ...	30.30	40	E	3	c	30.39	+1.11	43	40	+8	ENE	5	c	4	46	35	-		
Wales & Ireland.																			
Pembroke (St. Ann's Hd.) ...	30.31	41	ENE	4	c	30.40	+1.12	38	38	+4	ENE	3	cm	1	42	34	-		
Silly ...	30.11	43	ENE	6	c	30.28	+1.07	42	41	+1	ENE	6	o	5	48	40	0.01		
Prawle Point ...	30.21	40	ENE	6	o	30.32	+1.11	40	37	+5	ENE	6	c	4	43	34	-		
Jersey (St. Aubin's) ...	30.16	37	E	5	o	30.28	+1.15	38	36	-2	ENE	5	ogm	4	41	35	0.01		
Hurst Castle ...	30.24	42	E	4	og	30.35	+1.14	40	37	+2	E	6	c	4	42	36	-		
Wales & Ireland.																			
Dungeness ...	30.22	38	E	6	c	30.27	+1.10	37	36	+1	E	6	c	4	40	35	-		
London ...	30.28	35	ENE	2	bc	30.40	+1.18	39	36	+3	E	3	c	*	42	36	0.03		
Oxford ...	30.33	38	ENE	3	o	30.42	+1.15	38	37	+10	NE	1	o	*	43	28	0.01		
Cambridge ...	30.32	40	N	1	o	30.44	+1.17	38	38	+5	NE	1	o	*	44	31	0.02		
Yarmouth ...	30.30	41	NE	1	c	30.43	+1.21	40	38	0	E	4	cu	5	43	38	0.02		
Wales & Ireland.																			
Cuxhaven ...	30.27	36	NNE	1	c	30.49	+1.32	33	32	-2	ENE	2	bc	*	39	30	-		
Berlin ...	30.31	33	NNE	3	o	30.46	+1.30	30	30	-1	N	2	c	*	34	28	-		
Wiesbaden ...	*	*	*	*	*	30.37	+1.21	33	32	+11	NE	2	o	*	34	?	-		
Munich ...	30.12	24	NE	1	o	30.24	+1.20	25	24	+8	NE	5	o	*	25	21	0.04		
The Helder ...	30.32	39	NE	1	c	30.46	+1.22	38	36	+3	ENE	2	c	3	41	?	-		
Wales & Ireland.																			
Brussels (9 a.m.) ...	*	*	*	*	*	30.39	+1.18	28	28	-1	E	3	c	*	35	28	-		
Cape Gris Nez ...	9	32	ENE	3	c	30.28	+1.20	29	29	+1	ENE	2	o	3	37	28	-		
Paris ...	30.16	34	NNE	3	bc	30.28	+1.20	29	29	+1	ENE	2	o	*	37	28	-		
Brest ...	9	37	E	3	o	30.28	+1.20	29	29	+1	E	1	o	2	52	32	-		
Lorient ...	30.11	37	ENE	4	o	30.22	+1.15	33	32	-7	ENE	4	m	2	43	32	-		
Wales & Ireland.																			
Rochefort ...	30.13	35	ENE	2	o	30.21	+1.11	30	29	-7	NE	4	c	2	37	23	-		
Belfort ...	30.02	25	N	1	c	30.09	+1.08	26	26	+3	SW	2	o	*	30	21	-		
Lyons ...	30.10	30	NNW	1	o	30.15	+1.09	27	25	-2	N	1	m	*	32	27	-		
Nice ...	29.92	43	SW	2	c	29.97	+1.08	39	37	+2	ENE	4	o	1	48	37	-		
Perpignan ...	30.03	38	NW	2	c	30.04	+1.07	29	28	-9	SW	1	c	*	46	28	-		
Biarritz ...	30.06	39	E	3	o	30.05	+1.03	34	32	+2	ENE	4	o	2	43	30	-		
Wales & Ireland.																			
Corunna ...	*	*	*	*	*	29.99	0.0	39	37	-4	NNE	4	c	9	52	49	-		
Lisbon ...	29.97	47	NNW	2	c	29.99	0.0	39	37	-4	NNE	4	c	9	52	49	-		

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, 7th February,

BAROMETER, WIND AND SEA.

EXPLANATION OF MAP.

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

Changes since previous morning are stated in words.

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

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

→ = forces 5 to 7; → = forces 1 to 4.

⊙ = dead calm.

SEA DISTURBANCE—Where considerable, is shown thus:

— Rough. — High.

MEAN HEIGHT OF THE BAROMETER

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

During the 15 Years: 1871—1885.

STATIONS.	MEAN READINGS.
Sumburgh Head	29.713
Stornoway	29.700
Wick	29.737
Nairn	29.747
Aberdeen	29.780
Leith	29.803
Shields	29.847
York	29.884
Loughborough	29.912
Ardrossan	29.866
Donaghadee	29.812
Holyhead	29.848
Liverpool	29.873
Parsonstown	29.834
Valencia	29.850
Roche's Point	29.850
Pembroke	29.875
Silly	29.911
Jersey	29.975
Hurst Castle	29.944
Dover	29.957
LONDON	29.949
Oxford	29.938
Cambridge	29.935
Yarmouth	29.928

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

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

WEATHER—is shown by Letters of the Beaufort Scale.

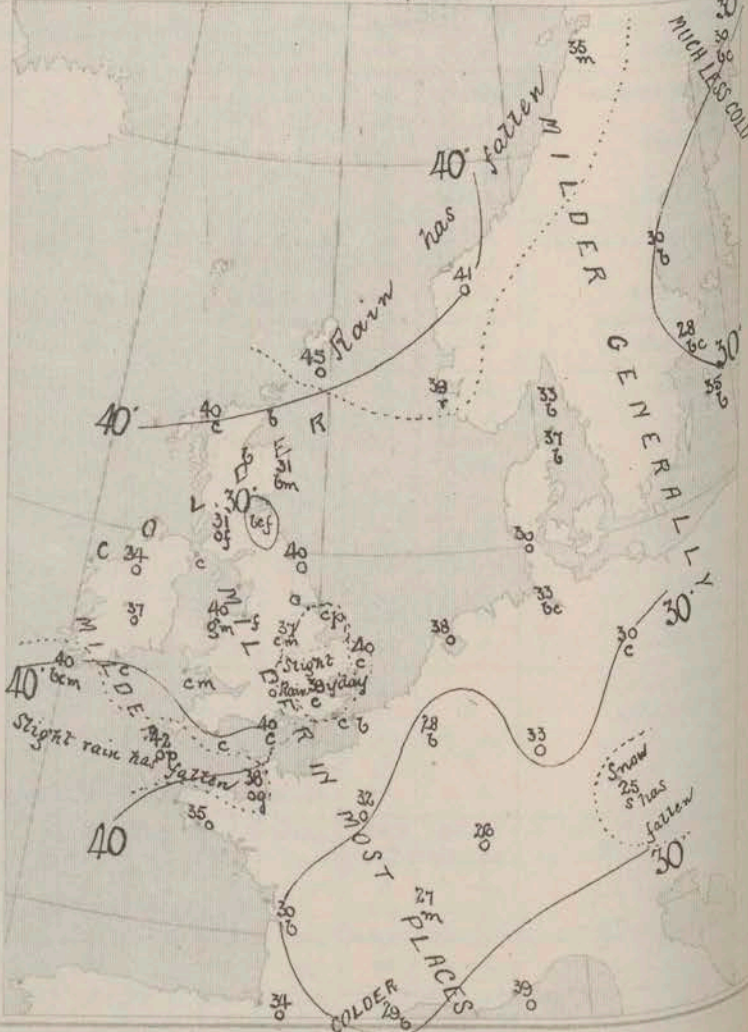
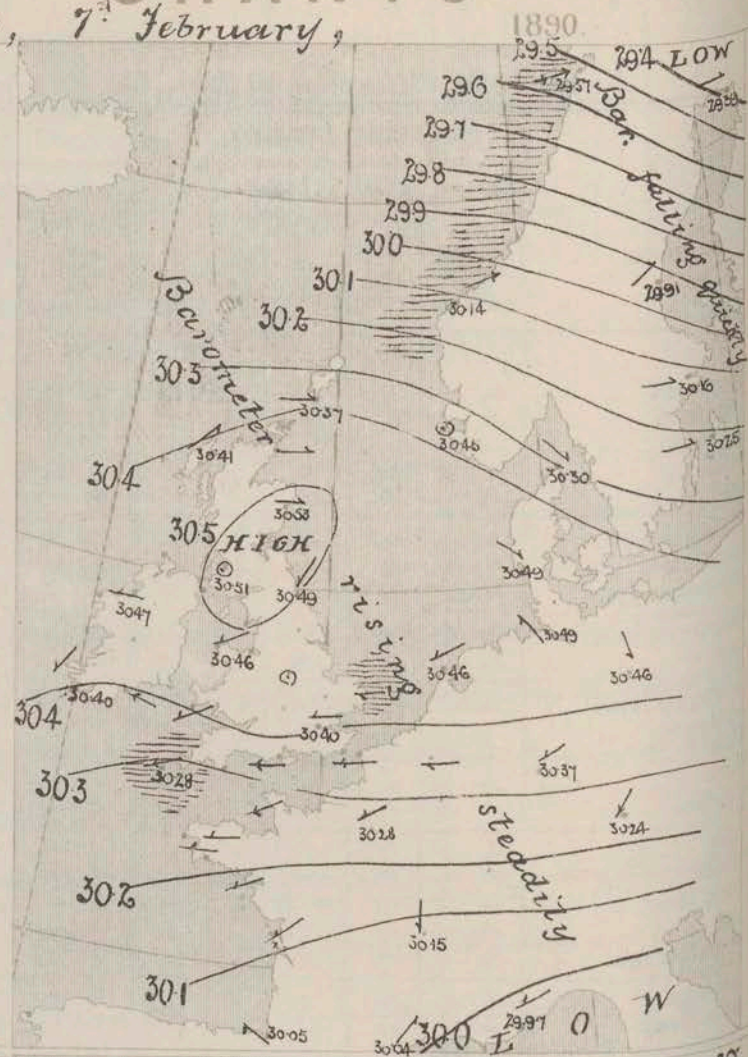
RAINFALL—A dotted line separates the districts in which rain has fallen from those where there has been none. Falls of 0.5 in. or more, are quoted in figures.

MEANS OF TEMPERATURE IN SHADE, AND RAINFALL.

(For the month of February.)

STATIONS.	TEMPERATURE.				RAINFALL (Inches.)
	Daily Max.	Daily Min.	at 8 a.m. Dry.	Wet.	
Sumburgh Head	42.6	34.7	38.7	37.7	3.29
Stornoway	43.5	34.7	39.3	38.2	3.97
Wick	43.4	33.5	38.4	37.0	2.02
Nairn	43.4	33.8	37.4	35.7	1.51
Aberdeen	43.5	34.2	37.8	36.2	2.51
Leith	46.6	34.7	39.3	37.7	1.58
Shields	44.3	35.7	39.2	37.9	1.63
York	45.3	34.2	38.2	37.1	1.83
Loughborough	46.0	34.5	38.4	37.3	2.00
Ardrossan	45.0	36.7	40.0	38.6	3.47
Donaghadee	45.8	37.0	40.7	39.7	2.71
Holyhead	46.1	39.3	42.3	40.8	2.90
Liverpool	45.3	36.9	39.9	38.3	1.85
Parsonstown	47.4	36.1	40.1	38.8	2.43
Valencia	50.2	40.8	45.1	43.4	5.29
Roche's Point	48.9	40.0	43.6	42.2	4.80
Pembroke	46.2	40.3	43.1	41.9	3.20
Silly	49.7	43.7	46.9	45.3	3.98
Jersey	47.6	40.1	43.2	42.0	2.72
Hurst Castle	46.5	37.9	41.3	40.4	2.63
Dover	45.4	37.4	40.8	39.1	2.12
LONDON	46.9	36.0	39.7	38.6	1.89
Oxford	45.9	35.0	38.5	37.7	2.00
Cambridge	46.4	35.9	38.5	37.3	1.60
Yarmouth	43.5	35.2	38.0	36.2	2.02

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, 30.5 ins: and more, over Scotland.</p> <p>Lowest, 29.3 ins: and less, over the north of Sweden, and 29.5 ins: and less, over the Gulf of Genoa.</p> <p>Gradients steep over Scandinavia, but slight in our Islands and France.</p> <p>Barometer falling over the Gulf of Bothnia, rising elsewhere.</p>
TEMPERATURE	<p>Highest, 45° at Hummerness, 43° at Helsingfors, 42° at Seilly, 41° at Christiansund, and 40° at Tromsø, Valerius, Helsingfors, and Hurst Castle.</p> <p>Lowest, 25° at Munich, 26° at Belfast, 27° at Lyons, 28° at Stockholm, Bremen, and Paris, 29° at Brest, and 30° at Harwich, Berlin and Helsingfors.</p>
WIND	Moderate to strong from the W nd over the greater part of Scandinavia, light from SW. and W. in Scotland, but E ^{ly} and NE ^{ly} over Ireland, France and England, blowing strongly in the English Channel.
WEATHER	Fine and bright at most of the Irish and Scotch stations, as well as in Sweden, but dull in most parts of France, Germany and England, with showers at Spurn Head and Seilly, rain at Helsingfors, and snow at Munich. A little rain has fallen during the past twenty-four hours at some of the northern and southern stations.
SEA	Sea rather rough off the coast of Norway and at Yarmouth and Seilly, moderate to smooth elsewhere.
PROBABLE CHANGES IN SYSTEM NOW PREVALENT	

The anticyclone seems to be extending slowly, and quiet, dry weather with fog or mist in some places is likely to continue over our Islands.

FORECASTS

For the 24 hours ending at NOON on 8th FEB^{ry} 1890.

DISTRICTS.	FORECASTS.	DISTRICTS.	FORECASTS.
0 SCOTLAND NORTH	{ W ^{ly} and SW ^{ly} winds, light; fair generally some mist locally.	6 SCOTLAND WEST	{ E ^{ly} winds, light or moderate; dull, some fog or mist.
1 SCOTLAND EAST		7 ENGLAND N.W.	
2 ENGLAND N.E.	{ NE ^{ly} winds, light and moderate; fair, but perhaps some showers locally.	8 ENGLAND S.W.	E ^{ly} winds, fresh or strong; cloudy, some cold showers.
3 ENGLAND EAST		9 IRELAND NORTH	{ E ^{ly} winds, moderate or fresh; fair generally.
4 MIDLAND COUNTIES		0 IRELAND SOUTH	
5 ENGLAND SOUTH	E ^{ly} winds, moderate, strong on coast; cloudy and cold, perhaps some showers.	WARNINGS NONE ISSUED.	

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

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

YESTERDAY'S 2 P.M. REPORTS.

	THER: WIND								THER: WIND							
	BAR:	D.	W.	D.	F.	WEA.	SEA		BAR:	D.	W.	D.	F.	WEA.	SEA	
Skudesnaes ...	30.34	43	37	2	0	b	3	Holyhead ...	30.34	44	40	ENE	3	b	2	
Sumburgh Head ...	30.25	45	42	W	2	o	4	Valencia ...	30.31	46	41	N	1	b	4	
Stornoway ...	30.28	46	46	SW	3	c	3	Scilly ...	30.22	48	41	ENE	5	c	3	
Aberdeen ...	30.36	43	40	WNW	1	com	1	Jersey ...	30.15	38	35	E	3	ogms	3	
Shields ...	30.35	43	41	WNW	1	c	2	Dungeness ...	30.19	39	36	E	6	c	3	
Ardrossan ...	30.36	37	37	W	1	o	1	London ...	30.26	42	39	ENE	3	c/o	3	
Malin Head ...	30.34	46	44	SW	1	b	2	Yarmouth ...	30.26	43	42	N/E	3	CV	3	
Mullaghmore ...	30.35	43	42	NW	1	c	3	Rochefort ...	30.12	36	34	NNE	2	o	3	
Belmullet ...	30.35	48	44	SPW	2	bc	*									

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

Weather fine over the greater part of the British Islands, the North Sea and Scandinavia and at several of the Mediterranean stations, cloudy or overcast elsewhere, foggy over the central portions of our Islands and also in the south of Russia, hail and sleet showers parts of the Channel and southeast of England. A little rain in Norway and the Shetland Isles later, and very slight cold showers at some of our own southern stations during the morning.

Temperature increasing in Ireland, Scotland, and the greater part of Central Europe, decreasing elsewhere. Above 50° at Helsingfors and Malta only; touching 45° at Sumburgh Hd., but very little above 40° even at Lisbon. Below the freezing point over almost all the inland parts of Europe and Central England, and as low as (1) 1° at Uleaborg, 6° at Haparanda, 20° at Huspie, 26° at Hangö, 28° at Helsingfors and Stockholm, (2) Hermannstadt, 15° at Rimbö, 16° at Kier, 22° at Munkich, 23° at Riefert and Kharlov.

Wind light to moderate generally, and very variable; anticyclonic over the United Kingdom and North Sea, N¹ to NW² over the Baltic and Eastern Russia, chiefly NE³ to E⁴ over France, the Channel, and Bay of Biscay, N¹ over the western parts of the Mediterranean, NW² at Palermo.

Barometer highest, 30.2 ins. to 30.3 ins. and more, in an anticyclone of rather irregular form, lying over the British Isles and their neighbourhood, and exceeding 30.1 ins. over the south of Russia, lowest, 29.5 ins. and less, over Northern Russia, and 29.3 ins. and less, over the northern parts of the Mediterranean. Gradients slight everywhere. Anticyclone in northwest, moving slightly to Erd later, and increasing in height.

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 8th February.

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 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 ...	29.69	23	NW	4	c	29.95	+0.26	22	21	-8	NNW	2	c	*	34	7	-	
Hernösand ...	30.07	36	W	0	o	30.17	+0.10	30	30	0	W	0	bc	*	43	30	-	
Stockholm ...	30.15	37	NNW	2	c	30.28	+0.13	32	30	+4	NNW	2	c	*	39	27	-	
Visby ...	30.23	37	N	4	c	30.23	-0.02	37	35	+2	N	4	c	*	37	32	-	
Bodo ...	29.99	32	W	6	c	29.90	+0.09	41	39	+6	SW	6	T	4	32	32	0.04	
CHRISTIANIA.																		
Christiansund	30.26	43	WPN	7	T	30.27	+0.01	44	42	+3	WPN	7	o	6	43	43	0.04	
Skudenes	30.47	42	NNW	2	o	30.48	+0.01	36	36	-3	ENE	2	f	2	43	36	-	
Christiania Fjord (Færd)	30.30	42	NNW	4	c	30.38	+0.08	37	36	+4	NNW	2	c	1	?	?	-	
Skagen (The Seaw)	30.34	37	NW	1	c	30.40	+0.06	38	37	+1	W	0	c	0	41	36	-	
Fanø ...	30.45	36	W	3	c	30.41	-0.04	37	37	+3	NW	1	f	*	37	30	-	
SCOTLAND.																		
Sumburgh Head	30.42	44	W	2	o	30.35	-0.07	42	40	-3	W	1	o	3	47	39	-	
Stornoway ...	30.43	43	SW	3	o	30.34	-0.09	42	41	+2	W	5	o	4	45	38	-	
Wick ...	30.46	35	W	0	c	30.40	-0.06	31	30	-6	W	1	c	0	47	29	-	
Nairn ...	30.47	35	W	0	c	30.41	-0.06	33	31	-1	SW	1	c	0	46	27	-	
Aberdeen ...	30.53	36	S	2	f	30.46	-0.07	34	32	+3	SW	1	bm	1	42	31	-	
IRELAND.																		
Leith ...	30.53	34	W	0	bc	30.49	-0.04	25	25	-3	W	0	f	*	37	23	-	
Shields ...	30.52	40	E	2	o	30.50	+0.02	35	34	-5	S	2	o	2	43	34	-	
Spurn Head ...	30.50	40	ENE	3	c	30.49	+0.01	37	36	-1	ENE	3	c	3	42	35	-	
York ...	30.52	40	E	1	o	?	?	34	33	-2	ENE	1	o	*	42	33	-	
Loughborough	30.49	39	NE	1	o	30.49	+0.00	34	33	-3	NE	2	om	*	42	33	-	
BRITISH ISLANDS.																		
Ardsrossan	30.51	38	E	1	bm	30.47	-0.04	31	31	0	E	1	om	0	43	31	-	
Malin Head ...	30.48	38	SSE	3	bm	30.42	-0.06	34	33	-5	SSE	2	bm	1	45	33	-	
Mullaghmore ...	30.47	41	SSE	3	bm	30.41	-0.06	37	35	+3	SSE	2	bm	2	42	31	-	
Belmullet ...	30.46	39	SSE	1	c	30.40	-0.06	35	33	0	E	1	c	*	43	32	-	
Donaghadee ...	30.50	43	SSE	2	bc	30.47	-0.03	40	39	-1	SSE	3	c	1	45	39	-	
IRELAND.																		
Liverpool (Bidston)	30.50	37	SSE	1	o	30.48	+0.02	31	30	-6	E	1	cm	2	41	31	-	
Holyhead ...	30.45	38	E	4	bm	30.43	-0.02	34	33	-6	SSE	3	bm	2	44	32	-	
Parsonstown ...	30.44	38	W	0	bc	30.39	-0.05	24	24	-13	W	0	c	*	44	23	-	
Valencia ...	30.40	43	NE	3	cm	30.38	-0.02	37	36	-3	ENE	1	c	2	46	35	-	
Roche's Point...	30.40	44	SSE	5	c	30.36	-0.04	40	36	-3	SSE	5	c	4	45	35	-	
IRELAND.																		
Pembroke (St. Ann's Hd.)	30.41	41	ENE	3	bc	30.38	-0.03	32	32	-6	ENE	3	c	2	44	32	-	
Silly ...	30.31	43	ENE	6	o	30.23	-0.08	40	39	-2	ENE	6	o	4	44	39	-	
Prawle Point ...	30.34	41	ENE	6	bc	30.27	-0.07	37	36	-3	ENE	7	c	6	41	36	-	
Jersey (St. Aubin's)	30.28	38	ENE	4	cm	30.26	-0.02	35	32	-3	E	5	bm	4	40	33	-	
Hurst Castle ...	30.36	40	NE	4	c	30.34	-0.02	38	35	-2	E	6	cm	4	45	34	-	
ENGLAND.																		
Dungeness ...	30.37	38	E	3	c	30.37	+0.00	34	31	-3	SSE	5	c	4	41	32	-	
London ...	30.41	38	ENE	3	bc	30.40	-0.01	33	32	-6	E	2	bm	*	42	32	-	
Oxford ...	30.45	36	ENE	3	bc	30.44	+0.01	32	31	-6	NE	3	c	*	41	32	-	
Cambridge ...	30.48	38	E	1	o	30.46	+0.02	28	27	-10	NE	1	c	*	42	27	-	
Yarmouth ...	30.46	37	E	4	bc	30.46	+0.00	38	36	-2	E	4	c	4	41	36	-	
GERMANY.																		
Cuxhaven ...	?	37	NNE	2	c	30.44	-0.05	37	36	+4	NW	3	c	*	38	33	-	
Berlin ...	30.48	30	NW	3	o	30.40	-0.08	29	25	-1	NNW	2	o	*	36	27	-	
Wiesbaden ...	*	*	*	*	*	30.44	+0.07	29	26	-4	W	0	c	*	36	25	-	
Munich ...	30.28	25	NE	7	o	30.34	+0.06	12	12	-13	NNE	2	bc	*	30	10	-	
The Helder ...	30.50	35	ENE	2	c	30.50	+0.04	33	32	-5	ENE	1	c	2	37	32	-	
FRANCE AND BELGIUM.																		
Brussels (9 a.m.)	*	*	*	*	*	30.44	+0.05	26	26	-2	E	2	bc	*	35	25	-	
Cape Gris Nez	?	33	E	6	c	?	?	26	26	-4	SSE	4	c	3	39	?	-	
Paris ...	30.27	33	NE	2	c	30.30	+0.03	25	24	-7	NE	1	c	*	39	25	-	
Brest ...	?	34	E	1	o	?	?	35	31	0	E	5	o	4	52	30	0.04	
Lorient ...	30.22	33	ENE	4	o	30.13	-0.09	34	31	+1	ENE	5	o	4	36	30	-	
FRANCE AND BELGIUM.																		
Rochefort	30.19	33	ENE	5	o	30.15	-0.04	35	33	+5	SSE	5	o	?	?	25	-	
Belfort ...	30.12	27	N	2	o	30.21	+0.09	26	19	0	SW	2	o	*	32	6	-	
Lyons ...	30.15	28	N	1	o	30.30	+0.15	24	23	-3	NE	1	c	*	31	23	-	
Nice ...	30.06	41	NE	4	T	30.13	+0.07	41	33	+2	ENE	4	c	2	43	37	0.28	
Perpignan ...	30.04	42	W	1	o	30.12	+0.08	38	36	+9	SW	1	o	*	48	?	-	
Biarritz ...	30.04	42	E	3	o	30.02	-0.02	33	31	-1	SSE	4	o	2	45	30	-	
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

Saturday, 8th February,

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 February.

During the 15 Years: 1871—1885.

STATIONS.	MEAN READINGS.
Sumburgh Head	29.713
Stornoway	29.700
Wick	29.737
Nairn	29.747
Aberdeen	29.780
Leith	29.803
Shields	29.847
York	29.884
Loughborough	29.912
Ardrossan	29.805
Donaghadee	29.812
Holyhead	29.848
Liverpool	29.873
Parsonstown	29.834
Valencia	29.850
Rocha's Point	29.850
Pembroke	29.875
Seilly	29.911
Jersey	29.975
Hurst Castle	29.944
Dover	29.957
LONDON	29.949
Oxford	29.938
Cambridge	29.935
Yarmouth	29.928

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

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

WEATHER—is shown by Letters of the Beaufort Scale.

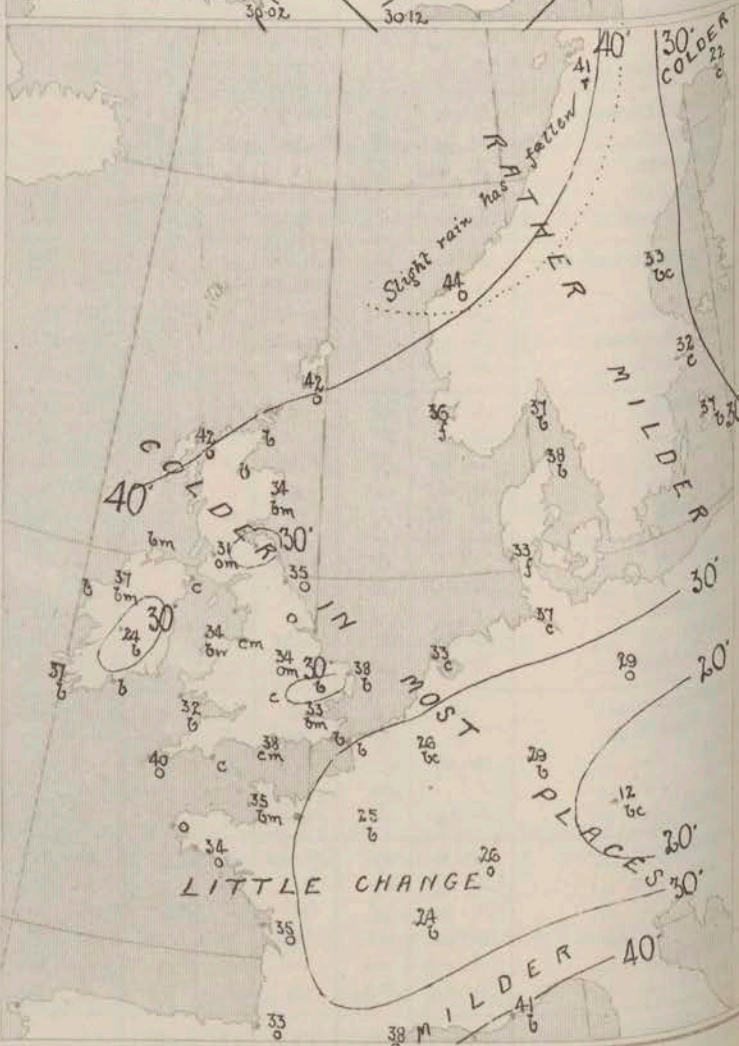
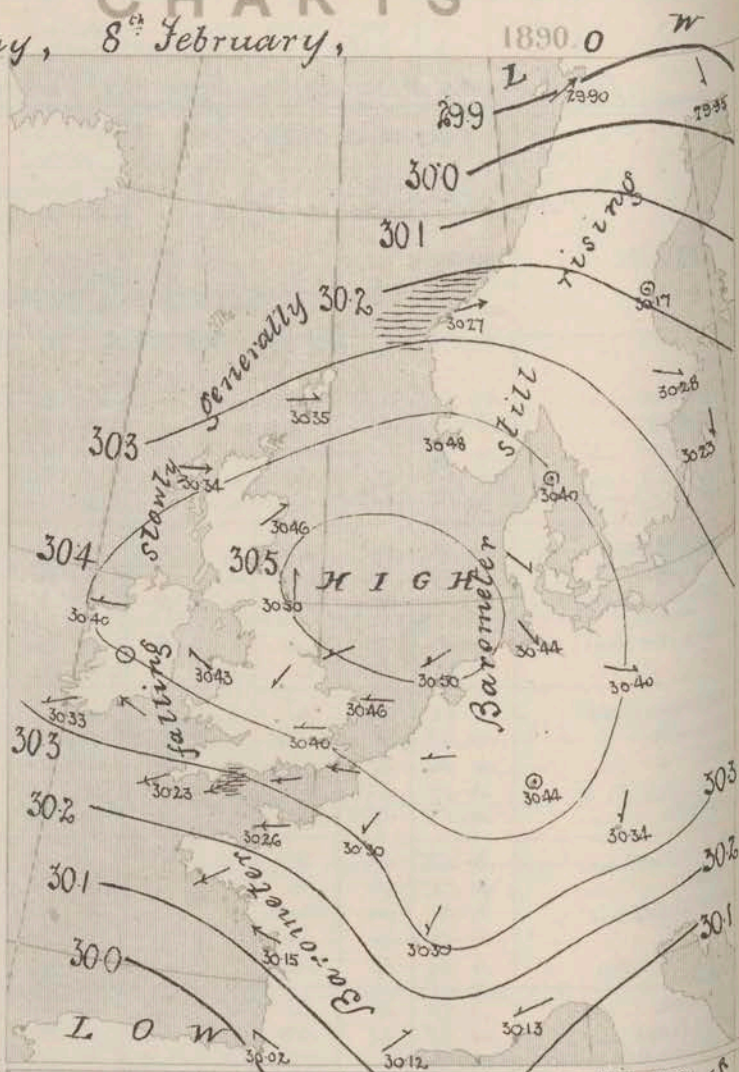
RAINFALL—A dotted line separates the districts in which rain has fallen from those where there has been none. Falls of 0.5 in. or more, are quoted in figures.

MEANS OF TEMPERATURE IN SHADE, AND RAINFALL.

(For the month of February.)

STATIONS.	TEMPERATURE.				RAINFALL. (Inches.)
	Daily Max.	Daily Min.	at 8 a.m.		
			Dry.	Wet.	
Sumburgh Head.....	42.6	34.7	38.7	37.7	3.29
Stornoway	43.5	34.7	39.3	38.2	3.97
Wick	43.4	33.5	38.4	37.0	2.02
Nairn	43.4	33.8	37.4	35.7	1.51
Aberdeen	43.5	34.2	37.8	36.2	2.51
Leith	46.6	34.7	39.2	37.7	1.58
Shields	44.3	35.7	39.2	37.9	1.63
York	45.3	34.2	38.2	37.1	1.88
Loughborough	46.0	34.5	38.4	37.3	2.00
Ardrossan	45.0	36.7	40.0	38.6	3.47
Donaghadee.....	45.8	37.0	40.7	39.7	2.71
Holyhead.....	46.1	39.3	42.3	40.8	2.90
Liverpool.....	45.3	36.9	39.9	38.3	1.85
Parsonstown	47.4	36.1	40.1	38.8	2.45
Valencia	50.2	40.8	45.1	43.4	5.29
Rocha's Point.....	48.9	40.0	43.6	42.2	4.86
Pembroke.....	46.2	40.3	43.1	41.9	3.20
Seilly	49.7	43.7	46.9	45.3	2.28
Jersey	47.6	40.1	43.2	42.0	2.72
Hurst Castle	46.5	37.9	41.3	40.4	2.63
Dover	45.4	37.4	40.3	39.1	2.12
LONDON	46.9	36.0	39.7	38.6	1.89
Oxford	45.9	35.9	38.8	37.7	2.06
Cambridge	46.4	33.9	38.3	37.3	1.60
Yarmouth	43.5	35.2	38.9	38.2	2.02

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 ins. and more, in an anticyclone lying over the North Sea.
Lowest, 29.8 ins. and less, over the North of Scandinavia, and 30.0 ins. and less, over the north of Spain.
Gradient moderate in the north of Scandinavia and south of France, very slight elsewhere.
Barometer falling in our Islands, but rising steadily at most of the Continental stations.

TEMPERATURE

Highest, 44° at Christiansund, 42° at Lumburgh Head and Stromway, 41° at Bodø, and 40° at Rocher Point and Scilly.
Lowest, 12° at Munich, 22° at Copenhagen, 24° at Larnaca and Belfast, 25° at ^{and Paris} Leith, 26° at Bremen and C. Frio Neg, and 28° at Berlin.
It has risen somewhat over Norway and Sweden, but fallen over our Islands, Germany, and the Netherlands.

WIND

Strong from SW. on the east coast of Norway, light from SW. and W. in Scotland.
N. over Sweden and Germany, but E. over France, Ireland, and England, still blowing strongly in the English Channel.

WEATHER

Dull in the west of France, the west of Norway, and northwest of Scotland, with rain at Bodø, fine in most other places, with fog or mist locally.
With the exception of a little rain in the west of Norway the weather has been very dry in all parts of Northwestern Europe.

SEA

Rough at Christiansund and Hawke Point, moderate in the Channel generally, slight or smooth elsewhere.

PROBABLE CHANGES IN SYSTEM NOW PREVALENT

As the anticyclone appears to be moving eastwards, and at the same time extending northwards and southwards the wind in the west will probably become more S.W. with somewhat milder weather in Ireland and Scotland, but elsewhere there is no indication of any important change.

FORECASTS

For the 24 hours ending at NOON on 9TH FEB^R 1890.

DISTRICTS.

FORECASTS.

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

SW. winds, light to fresh; fair to unsettled and perhaps some rain.

E. and SE. winds, light; fair generally, cold.

E. winds, moderate, strong in the Channel; fair generally, cold.

DISTRICTS.

FORECASTS

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

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

E. winds, strong; fair generally.

Same as No 6 and 7.

SE. 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.

THER: WIND								THER: WIND							
BAR:		D.	W.	D.	F.	WEA.	SEA	BAR:		D.	W.	D.	F.	WEA.	SEA
Skudesnaes ...	30.47	42	40	X	0	C	2	Holyhead ...	30.46	43	39	E	4	bcn	3
Sumburgh Head ...	30.41	46	44	W	2	bc	3	Valencia ...	30.40	45	41	E	3	cn	4
Stornoway ...	30.44	45	45	SW	3	C	3	Scilly ...	30.31	43	41	ENE	6	0	4
Aberdeen ...	30.51	40	38	SE	2	bm	1	Jersey ...	30.30	38	35	ENE	5	cn	5
Shields ...	30.51	43	40	E	2	C	2	Dungeness ...	30.35	40	37	E	6	C	8
Ardrossan ...	30.51	43	41	SE	2	C	1	London ...	30.42	42	39	ENE	3	0	4
Mulin Head ...	30.48	45	42	SE	3	bm	2	Yarmouth ...	30.44	40	38	E	4	C	4
Mullaghmore ...	30.48	42	40	SE	4	0	3	Rochefort ...	30.23	31	30	ENE	5	0	?
Belmullet ...	30.47	43	40	ENE	2	C	*								

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

Weather fair generally, and in many places clear, but snow reported at Munich, haze or fog in several of the more northern parts of the British Islands. Slight rain in Norway later, but none at any of the other stations in Western Europe.

Temperature fallen decidedly over the north of Russia, slightly at the more central and southern stations, as well as over the southern part of France and in Scotland; risen elsewhere — slightly over Central Europe, more decidedly over England and rapidly at the northern extremity of the Gulf of Bothnia. Morning readings below 50° except at Brindisi and Malta, but below 40° in most places, and the freezing point at most inland stations. Lowest readings -1° F. at Archangel, +8° at St. Petersburg, 14° at Hermannstadt, 18° at Khabarovsk, 25° at Munich, 28° at Leith, and 29° at Hamburg, 30° at Berlin and Paris.

Wind W¹ and SW¹ over the northern countries including Scotland, N¹ over Poland, Eastern Prussia and Austria, NE¹ in nearly all other places, and blowing strongly in the English Channel. Very variable over the southern part of the Mediterranean, and in force.

Barometer highest, 30.3 ins. to 30.5 ins., over the whole of the British Islands, the Netherlands, North Germany, and the most southern part of Scandinavia; lowest, 29.4 ins. and less, in a depression over Lapland, and about 29.9 ins. in a shallow disturbance over Greece and the north of Scandinavia. Gradients slight except in the far north. The northern depression moving southwards later, and barometer falling over Russia.

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 9th FEB^{RY} 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 6.)	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 ...	29.85	33	SW	2	o	29.95	+ .00	37	36	+ 15	W	4	b	*	?	16	—	
Hernösand ...	30.24	35	Z	0	b	30.28	+ .11	35	32	+ 5	NW	2	bc	*	46	30	—	
Stockholm ...	30.35	33	W	2	b	30.39	+ .11	28	26	— 4	Z	0	bc	*	45	28	—	
Wisby ...	30.32	36	N	4	b	30.32	+ .09	35	33	— 2	WNW	2	b	*	37	34	—	
Bodo ...	29.89	41	WSW	8	o	30.01	+ .11	42	41	+ 1	SW	8	o	5	43	41	0.35	
CHRISTIANIA.																		
Christiansund ...	30.32	43	WSW	6	o	30.35	+ .08	40	36	— 4	WSW	2	b	5	47	39	—	
Skudesnaes ...	30.49	40	Z	0	o	30.44	— .04	35	34	— 1	Z	0	b	2	40	34	—	
Christiania Fjord (Færder) ...	30.39	37	SSW	2	b	30.40	+ .02	30	30	— 7	NNW	2	f	1	39	28	—	
Skagen (The Seaw) ...	30.44	34	Z	0	b	30.41	+ .01	31	30	— 7	NW	1	b	0	41	30	—	
Fanö ...	30.45	33	E	1	b	30.47	+ .06	26	26	— 7	Z	0	f	*	41	26	—	
SCOTLAND.																		
Sumburgh Head ...	30.34	42	Z	0	o	30.26	— .09	41	40	— 1	S	3	b	3	45	37	—	
Stornoway ...	30.27	41	SW	4	bc	30.16	— .18	42	40	— 0	W	6	c	5	44	33	—	
Wick ...	30.35	35	NW	1	b	30.26	— .14	37	36	+ 6	S	3	bc	1	43	30	—	
Nairn ...	30.34	33	Z	0	b	30.25	— .16	24	23	— 9	Z	0	b	0	44	23	—	
Aberdeen ...	30.40	37	S	1	b	30.36	— .10	38	36	+ 4	SSE	3	o	3	41	34	—	
ENGLAND.																		
Leith ...	30.41	34	E	1	b	30.33	— .16	29	29	+ 4	Z	0	m	*	38	24	—	
Shields ...	30.45	35	SE	2	c	30.35	— .15	36	35	+ 1	NW	1	om	2	37	32	—	
Spurn Head ...	30.43	38	E	3	o	30.30	— .19	40	38	+ 3	E	5	c	4	40	36	—	
York ...	30.46	37	E	1	o	30.34	— .18	38	37	+ 4	E	1	c	*	38	33	—	
Loughborough ...	30.42	36	E	1	b	30.30	— .19	36	36	+ 2	E	2	o	*	49	33	0.01	
IRELAND.																		
Ardrossan ...	30.38	37	NE	1	bm	30.31	— .16	30	30	— 1	NE	3	bm	1	42	28	—	
Malin Head ...	30.31	40	SSE	2	b	30.23	— .19	34	34	— 0	SSE	3	bm	2	44	33	—	
Mullaghmore ...	30.28	42	E	4	b	30.20	— .21	38	34	+ 1	SE	4	b	4	46	34	—	
Belmullet ...	30.25	42	SE	3	b	30.15	— .25	35	34	+ 0	SE	3	b	*	45	33	—	
Donaghadee ...	30.36	44	SSE	3	b	30.30	— .17	38	36	— 2	SE	5	c	3	46	37	—	
WALLES.																		
Liverpool (Bidston) ...	30.40	38	ESE	2	b	30.32	— .16	34	32	+ 3	E	1	o	2	40	31	—	
Holyhead ...	30.34	39	E	3	bm	30.26	— .17	33	32	— 1	ESE	1	b	2	43	32	—	
Parsonstown ...	30.27	40	SE	2	bc	30.19	— .20	36	34	+ 12	SE	1	o	*	45	28	—	
Valencia ...	30.19	42	SSW	4	om	30.10	— .23	44	42	+ 7	ESE	3	og	3	46	37	—	
Roche's Point ...	30.24	41	SE	5	o	30.16	— .20	43	40	+ 3	ESE	5	c	4	43	39	—	
SCOTLAND.																		
Pembroke (St. Ann's Hd.) ...	30.27	42	E	5	m	30.20	— .18	36	35	+ 4	E	4	c	3	42	32	—	
Scilly ...	30.14	42	ESE	7	o	30.08	— .15	45	43	+ 5	EGE	6	bc	4	45	39	—	
Prawle Point ...	30.24	40	ENE	6	o	30.15	— .12	39	39	+ 2	ENE	6	o	4	41	37	—	
Jersey (St. Aubin's) ...	30.28	39	E	3	bc	30.13	— .13	39	35	+ 4	E	3	cm	3	42	34	—	
Hurst Castle ...	30.32	39	E	5	b	30.19	— .15	40	37	+ 2	E	5	c	3	41	35	—	
ENGLAND.																		
Dungeness ...	30.31	40	ESE	6	b	30.20	— .17	34	33	— 0	ESE	6	c	5	40	33	—	
London ...	30.39	37	E	2	bc	30.25	— .15	36	34	+ 3	E	3	c	*	42	33	—	
Oxford ...	30.37	33	NE	2	b	30.25	— .19	35	34	+ 3	NE	2	o	*	44	31	—	
Cambridge ...	30.42	35	E	1	b	30.29	— .17	37	35	+ 9	E	1	o	*	44	27	—	
Yarmouth ...	30.43	38	E	4	c	30.29	— .17	37	36	— 1	ESE	5	cg	4	39	36	—	
SCOTLAND.																		
Cuxhaven ...	30.44	32	ESE	2	o	30.45	+ .01	32	31	— 5	ESE	3	o	*	37	30	—	
Berlin ...	30.43	35	NNE	3	o	30.43	+ .03	32	31	+ 3	E	2	o	*	35	29	—	
Wiesbaden ...	*	*	*	*	*	30.29	— .15	32	30	+ 3	NE	3	o	*	36	29	—	
Munich ...	30.27	21	E	3	bc	30.17	— .17	17	17	+ 5	E	5	bc	*	28	12	—	
The Helder ...	30.41	38	NE	1	o	30.38	— .12	32	?	— 1	ENE	2	c	3	39	32	—	
FRANCE AND BELGIUM.																		
Brussels (9 a.m.) ...	*	*	*	*	*	30.27	— .17	29	28	+ 3	E	2	b	*	39	26	—	
Cape Gris Nez ...	?	33	E	4	b	?	?	29	28	+ 3	E	3	c	2	37	24	—	
Paris ...	30.29	33	NE	2	bc	30.14	— .16	26	25	+ 1	NNE	1	b	*	41	25	—	
Brest ...	?	40	ESE	4	bc	?	?	34	33	— 1	ENE	2	b	2	?	32	—	
Lorient ...	30.13	37	E	5	b	30.05	— .08	33	30	— 1	ENE	5	bc	2	41	32	—	
SPAIN.																		
Rochefort ...	30.17	42	ENE	4	b	30.07	— .08	30	?	— 5	ENE	2	b	?	47	30	—	
Belfort ...	30.19	29	E	2	o	?	?	30	23	+ 4	E	1	bc	*	32	14	—	
Lyons ...	30.21	29	NW	1	b	30.11	— .19	25	24	+ 1	SE	1	b	*	32	24	—	
Nice ...	30.09	42	SE	3	bc	30.11	— .02	38	31	— 3	NE	4	bc	?	50	27	—	
Perpignan ...	30.07	43	N	3	o	30.03	— .09	39	39	+ 1	Z	0	o	*	48	39	0.63	
Biarritz ...	30.01	44	E	4	b	29.95	— .07	35	32	+ 2	ESE	3	b	1	50	32	—	
PORTUGAL.																		
Corunna ...	*	*	*	*	*	29.91	— .04	41	37	— 3	SW	2	b	2	50	37	0.04	
Lisbon ...	29.82	46	N	3	b	29.86	— .04	40	36	— 0	NNE	4	c	5	52	37	—	

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, February 9th,

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 February.

During the 15 Years: 1871—1885.

STATIONS.	MEAN READINGS.
Sumburgh Head	29.713
Stornoway	29.700
Wick	29.737
Nairn	29.747
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Holyhead	29.848
Liverpool	29.873
Parsonstown	29.834
Valencia	29.850
Roche's Point	29.850
Pembroke	29.875
Sailly	29.911
Jersey	29.975
Hurst Castle	29.944
Dover	29.957
LONDON	29.949
Oxford	29.938
Cambridge	29.935
Yarmouth	29.928

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

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

WEATHER is shown by Letters of the Beaufort Scale.

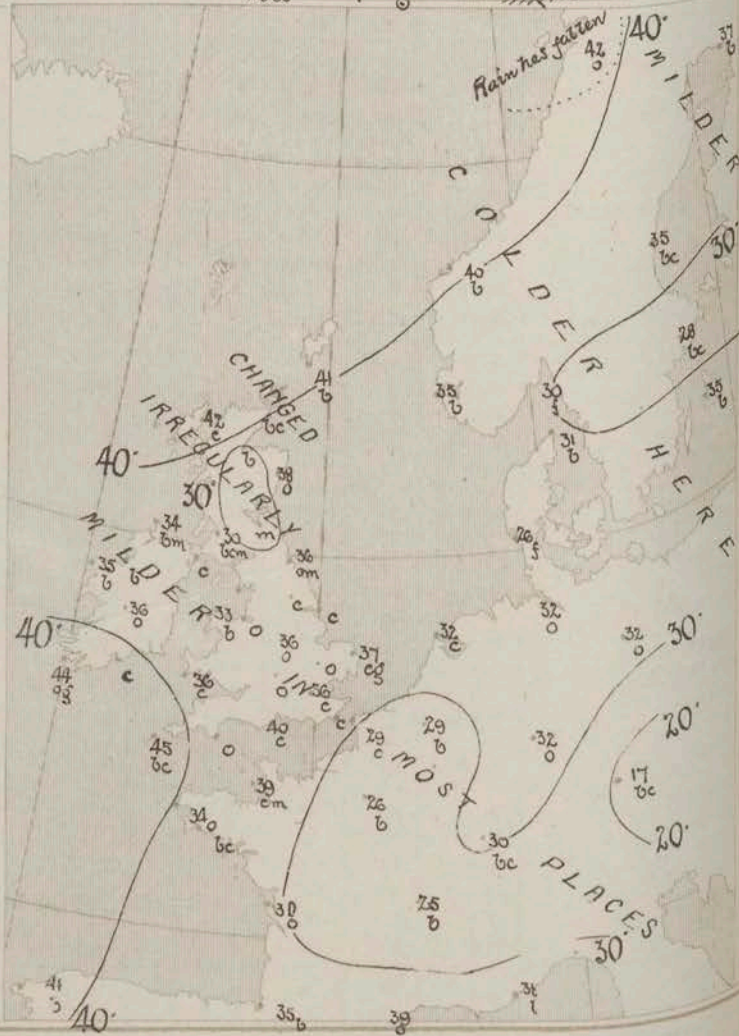
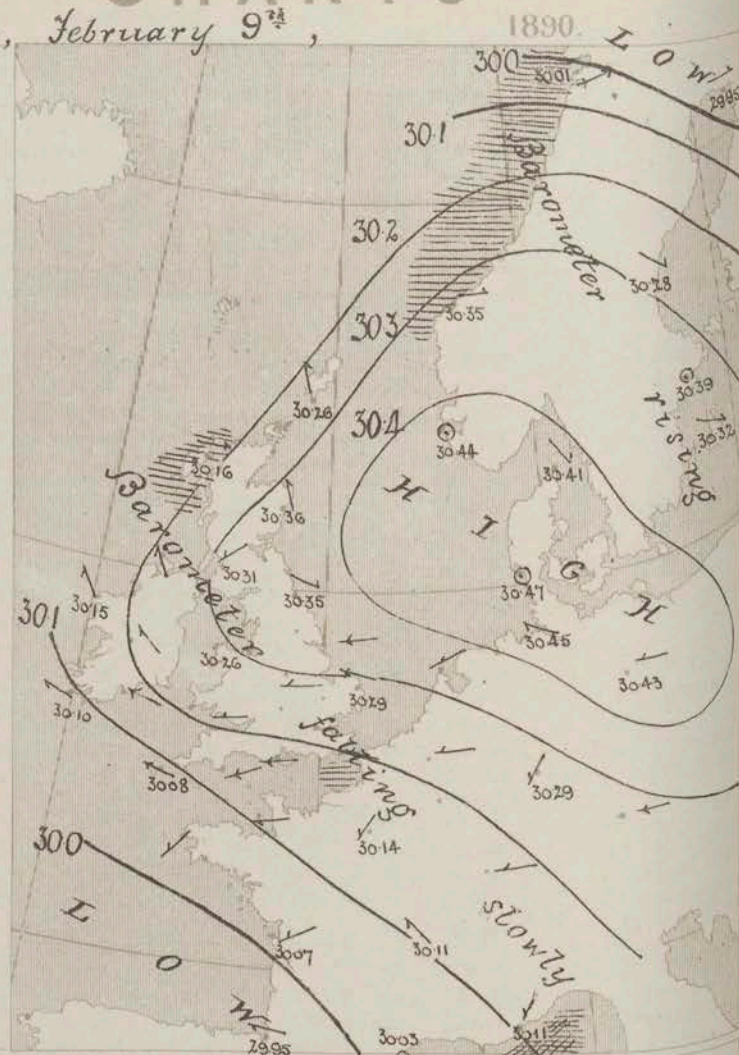
RAINFALL—A dotted line separates the districts in which rain has fallen from those where there has been none. Falls of 0.5 in. or more, are quoted in figures.

MEANS OF TEMPERATURE IN SHADE, AND RAINFALL.

(For the month of February.)

STATIONS.	TEMPERATURE.				RAINFALL (Inches.)
	Daily Max.	Daily Min.	Dry, at 8 a.m.	Wet.	
Sumburgh Head	42.6	34.7	38.7	37.7	3.29
Stornoway	43.5	34.7	39.3	38.2	3.97
Wick	43.4	33.5	38.4	37.0	2.02
Nairn	43.4	33.5	37.4	35.7	1.51
Aberdeen	43.5	34.2	37.8	36.2	2.51
Leith	46.6	34.7	39.2	37.7	1.58
Shields	41.8	35.7	39.2	37.9	1.63
York	45.3	34.2	38.2	37.1	1.88
Loughborough	46.0	34.5	38.4	37.3	2.00
Ardrossan	45.0	35.7	40.0	38.6	3.47
Donaghadee	45.8	37.0	40.7	39.7	2.71
Holyhead	46.1	39.3	42.3	40.8	2.90
Liverpool	45.8	36.9	39.9	38.3	1.85
Parsonstown	47.4	36.1	40.1	38.8	2.45
Valencia	50.2	40.8	45.1	43.4	5.29
Roche's Point	48.9	40.0	43.6	42.2	4.86
Pembroke	46.2	40.3	43.1	41.9	3.20
Sailly	49.7	43.7	46.9	45.3	2.98
Jersey	47.5	40.1	43.2	42.0	2.72
Hurst Castle	46.5	37.9	41.3	40.4	2.63
Dover	45.4	37.4	40.3	39.1	2.12
LONDON	46.9	36.0	39.7	38.6	1.89
Oxford	45.9	35.9	38.8	37.7	2.00
Cambridge	46.4	33.9	38.3	37.3	1.60
Yarmouth	43.5	35.2	38.9	38.2	2.02

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. to nearly 30.5 ins. in an anticyclonic system, covering the North Sea, the north and east of England, the southern half of Scandinavia, Denmark, Holstein, the Baltic and North Germany.

Lowest, 30.0 ins. and less, over Lapland and the north coast of the Gulf of Bothnia, 29.9 ins. and less over Portugal and the southwest of Spain.

Gradients slight generally except over the north of Scotland. Barometer rising over Northern Europe, falling elsewhere, but changes slight.

TEMPERATURE

Highest, 45° at Skilly, 44° at Valencia, 42° at Lonsbury and Bodo, 41° at Lumburg Head and Cronna, 40° at Spinnhead.

Lowest, 17° at Munich, 25° at Lyons, 26° at Paris and Tani, 28° at Stockholm, 29° at Brussels, and 32° at Berlin.

The change, during the past twenty-four hours have been slight.

WIND

E⁴ over the southern half of our area, and blowing rather strongly in the Channel.

SE³ moderate in Ireland, S² in Scotland, SW² over the northern half of Norway, (a gale at Bodo), and W³ at Koparanda.

WEATHER

Fair as a whole — cloudy in some localities, clear in others — but dry generally.

Rain has fallen (0.35 ins) at Bodo and slight drizzle at Loughborough; from our other stations there is none reported.

SEA

Rather rough in the far north and at Lumburg, moderate to smooth at our other stations.

PROBABLE CHANGES IN SYSTEM NOW PREVALENT

FORECASTS

For the 24 hours ending at NOON on 10th Feb^y 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
- 0 IRELAND SOUTH

NONE ISSUED.

WARNINGS

NONE ISSUED.

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.

	BAR:	THER:		WIND		WEA	SEA		BAR:	THER:		WIND		WEA	SEA
		D.	W.	D.	F.					D.	W.	D.	F.		
Skudesnaes ...	30.50	40	39	Z	0	0	2		Holyhead ...	30.39	42	38	E	6	5
Sumburgh Head ...	30.33	43	40	WSW	1	c	3		Valencia ...	30.25	44	41	E	5	5
Stornoway ...	30.32	43	42	SW	6	0	4		Scilly ...	30.18	42	40	E	6	3
Aberdeen ...	30.44	41	38	S	1	b.m	1		Jersey ...	30.27	39	36	E	4	5
Shields ...	30.46	37	35	S	2	c	2		Dungeness ...	30.36	40	36	ESE	6	8
Ardrossan ...	30.43	42	39	NE	1	b	1		London ...	30.38	42	37	E	3	4
Malin Head ...	30.35	44	41	SSE	3	b	1		Yarmouth ...	30.44	39	37	E	4	2
Mullaghmore ...	30.33	45	41	E	3	b	2		Rochefort ...	30.19	45	41	E	4	
Belmullet ...	30.31	45	41	SSW	2	b	*								

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

Weather fine generally, but dull in Russia and the west of Norway, with snow at Moscow and rain at Bodö. Fog reported in many parts of Great Britain and fog on the eastern shores of the North Sea. Subsequently becoming dull and rainy at many of the Italian stations.

Temperature risen a little over Scandinavia and Russia, as well as at some of the Mediterranean stations, but fallen elsewhere, several degrees over Southern Germany. Morning readings very little above zero over Central Russia and below the freezing point in the central parts of most other countries, thermometer reaching 50° or a little above at some of the Mediterranean stations. Lowest readings 2° at Moscow, 12° at Munich, 16° at Lemberg, and 20° at Ulsaborg; highest 53° at Malta, and 52° at Benidorm.

Wind E over the greater part of England, Ireland, France, and Southern Europe, fresh or strong in force over the Channel and Bay of Biscay. Strong from the SW over the west of Norway, light or moderate from the NW over Sweden, Finland, and the Baltic; variable over Austria and the south of Russia. Subsequently increasing to a moderate gale from ESE at the mouth of the English Channel.

Barometer highest, 30.3 ins. to 30.5 ins. in a large anticyclone extending eastwards from our Islands and the North Sea to Germany and the south of Austria; lowest 29.8 ins. and less. over Northern Russia and also over Morocco. Gradients moderate over north of Scandinavia, but slight elsewhere. Somewhat decided fall of the barometer taking place during day on the west coast of our Islands; little change observed elsewhere.

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, 10th February, 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.	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	30.10	30	W	0	b	30.10	+ .15	30	28	- 7	W	2	0	*	41	27		
Hernösand	30.35	30	W	0	b	30.36	+ .08	18	16	- 17	W	0	0	*	46	?		
Stockholm	30.44	29	W	2	b	30.47	+ .08	21	20	- 7	W	2	0	*	37	?		
Visby	30.34	32	NW	4	b	30.39	+ .07	31	30	- 4	W	4	0	*	37	30		
Bodö	30.12	42	WSEW	4	c	29.66	- .35	43	40	+ 1	WSEW	8	0	*	43	39		
CHRISTIANIA.																		
Christiansund	30.29	36	ESE	1	b	30.36	+ .01	39	36	- 1	WSEW	1	0	*	41	32		
Skudesnaes	30.48	37	SESE	2	0	30.54	+ .10	35	33	- 0	SESE	2	0	*	?	34		
Christiania Fjord (Pariser)	30.46	31	NNE	2	0	30.50	+ .10	24	23	- 6	NW	2	0	*	30	23		
Skagen (The Scaw)	30.47	36	W	3	0	30.50	+ .19	36	35	+ 5	W	1	0	*	39	30		
Fanø	30.49	32	E	2	b	30.52	+ .06	26	26	- 0	SESE	2	0	*	36	?		
SCOTLAND.																		
Sumburgh Head	30.25	41	SESE	3	c	30.31	+ .05	42	39	+ 1	S	3	0	*	42	40		
Sornoway	30.19	41	SW	5	0	30.24	+ .08	40	38	- 2	S	6	0	*	45	33		
Wick	30.24	39	S	5	b	30.30	+ .04	40	39	+ 3	S	5	0	*	42	35		
Nairn	30.20	37	W	0	b	30.30	+ .05	28	26	+ 4	W	0	0	*	44	23		
Aberdeen	30.33	37	S	2	c	30.36	- .00	40	37	+ 2	SESE	3	0	*	40	37	0.01	
ENGLAND.																		
Leith	30.30	38	S	1	0	30.33	- .00	37	36	+ 8	SESE	1	0	*	39	29		
Shields	30.30	40	SESE	3	0	30.33	- .02	40	37	+ 4	SE	2	0	*	42	35		
Spurn Head	30.26	39	E	6	0	30.31	+ .01	38	36	- 2	SESE	4	0	*	40	34		
York	30.29	39	E	1	0	30.34	- .00	37	35	- 1	SESE	1	0	*	42	35		
Loughborough	30.25	36	E	3	0	30.30	- .00	33	31	- 3	SESE	2	0	*	39	31		
IRELAND.																		
Androssan	30.28	37	NE	2	0	30.30	- .01	36	36	+ 6	ENE	2	0	*	40	33		
Malin Head	30.26	37	SESE	3	0	30.24	+ .01	37	35	+ 3	SESE	2	0	*	40	34		
Mullaghmore	30.21	40	SESE	3	0	30.21	+ .01	39	36	+ 1	SESE	4	0	*	41	35		
Belmullet	30.18	40	E	2	c	30.19	+ .04	35	34	- 0	E	2	0	*	45	31		
Donaghadee	30.25	41	SESE	4	c	30.27	- .03	39	38	+ 1	SE	4	0	*	41	34		
WALLES.																		
Liverpool (Bidston)	30.25	38	E	2	0	30.30	- .02	34	32	- 0	SESE	2	0	*	39	34		
Holyhead	30.19	38	E	2	c	30.25	- .01	34	33	+ 1	SESE	1	0	*	43	32		
Parsonstown	30.19	37	W	0	c	30.19	- .00	36	34	- 0	W	0	0	*	41	33		
Valencia	30.14	43	E	2	bcm	30.13	+ .03	40	38	- 4	W	0	0	*	49	38		
Roche's Point	30.16	42	SESE	4	0	30.15	- .01	40	37	- 3	E	4	0	*	45	37		
SCOTLAND.																		
Pembroke (St. Ann's Hd.)	30.17	39	E	3	c	30.17	- .03	36	36	- 0	E	4	0	*	41	34		
Seilly	30.07	44	ENE	5	0	30.07	- .01	41	40	- 4	SESE	6	0	*	48	39		
Prawle Point	30.11	39	NE	4	0	30.15	- .00	38	36	- 1	SESE	4	0	*	41	36		
Jersey (St. Aubin's)	30.07	41	ENE	4	b	30.17	+ .04	37	34	- 2	SESE	4	0	*	45	35		
Hurst Castle	30.14	39	E	4	bcm	30.21	+ .02	40	37	- 0	SE	3	0	*	40	36		
ENGLAND.																		
Dungeness	30.14	36	SESE	6	c	30.26	+ .06	37	35	+ 3	SE	4	0	*	39	32		
London	30.17	36	SESE	3	0	30.27	+ .02	32	30	- 4	SESE	2	0	*	39	31		
Oxford	30.22	35	SE	2	0	30.27	+ .02	33	32	- 2	ENE	2	0	*	40	31		
Cambridge	30.25	37	E	1	0	30.30	+ .01	31	30	- 6	NE	1	0	*	39	29		
Yarmouth	30.23	36	E	6	cq	30.33	+ .04	37	36	- 0	SE	5	0	*	37	34		
SCOTLAND.																		
Cuxhaven	30.46	30	SESE	3	0	30.51	+ .06	31	30	- 1	SESE	2	0	*	?	28		
Berlin	30.47	33	W	0	b	30.51	+ .08	26	26	- 6	NW	3	0	*	34	?		
Wiesbaden	*	*	*	*	*	30.41	+ .12	31	30	- 1	NE	4	0	*	36	30		
Munich	30.28	28	E	5	0	30.37	+ .20	17	17	- 0	SE	3	0	*	30	14		
The Helder	30.36	34	E	3	b	30.42	- .02	32	31	- 1	SESE	1	0	*	36	32		
FRANCE AND BELGIUM.																		
Brussels (9 a.m.)	*	*	*	*	*	30.36	+ .09	28	28	- 1	E	1	0	*	36	26		
Cape Gris Nez	?	33	W	3	b	?	?	30	28	+ 1	SE	2	0	*	37	24		
Paris	30.10	33	NE	2	b	30.26	+ .12	30	27	+ 4	E	2	0	*	40	?		
Brest	30.05	41	E	1	c	30.04	?	40	35	+ 6	E	5	0	*	54	34	0.04	
Lorient	30.01	42	ENE	1	b	30.11	+ .06	35	31	+ 2	E	4	0	*	45	32		
SCOTLAND.																		
Rochefort	30.05	44	?	3	bcm	30.19	?	36	36	- 3	SE	4	0	*	52	28		
Belfort	30.12	23	E	1	b	?	?	27	21	- 3	SESE	1	0	*	32	10		
Nice	30.16	35	ENE	1	b	30.28	+ .17	29	27	+ 4	SW	1	0	*	41	?	0.04	
Perpignan	30.12	42	SW	2	b	30.15	+ .04	35	31	- 3	SESE	4	0	*	46	34		
Biarritz	30.06	46	NE	2	0	30.16	+ .13	44	43	+ 5	NE	2	0	*	53	?	0.04	
Corunna	29.97	48	SESE	2	0	30.07	+ .12	46	42	+ 11	SESE	3	0	*	52	?		
Lisbon	29.95	50	N	4	b	30.03	+ .17	45	39	+ 5	ENE	4	0	*	55	?		

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, 10th February, 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 February.
 During the 15 Years: 1871—1885.

STATIONS.	MEAN READINGS.
	<i>inches.</i>
Sumburgh Head	29.713
Stornoway	29.700
Wick	29.737
Nairn	29.747
Aberdeen	29.780
Leith	29.803
Shields	29.847
York	29.884
Loughborough	29.912
Ardrossan	29.805
Donaghadee	29.812
Holyhead	29.848
Liverpool	29.873
Parsonstown	29.834
Valencia	29.850
Roche's Point	29.850
Pembroke	29.875
Seilly	29.911
Jersey	29.976
Hurst Castle	29.944
Dover	29.967
LONDON	29.949
Oxford	29.938
Cambridge	29.935
Yarmouth	29.928

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

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

WEATHER—is shown by Letters of the Beaufort Scale.

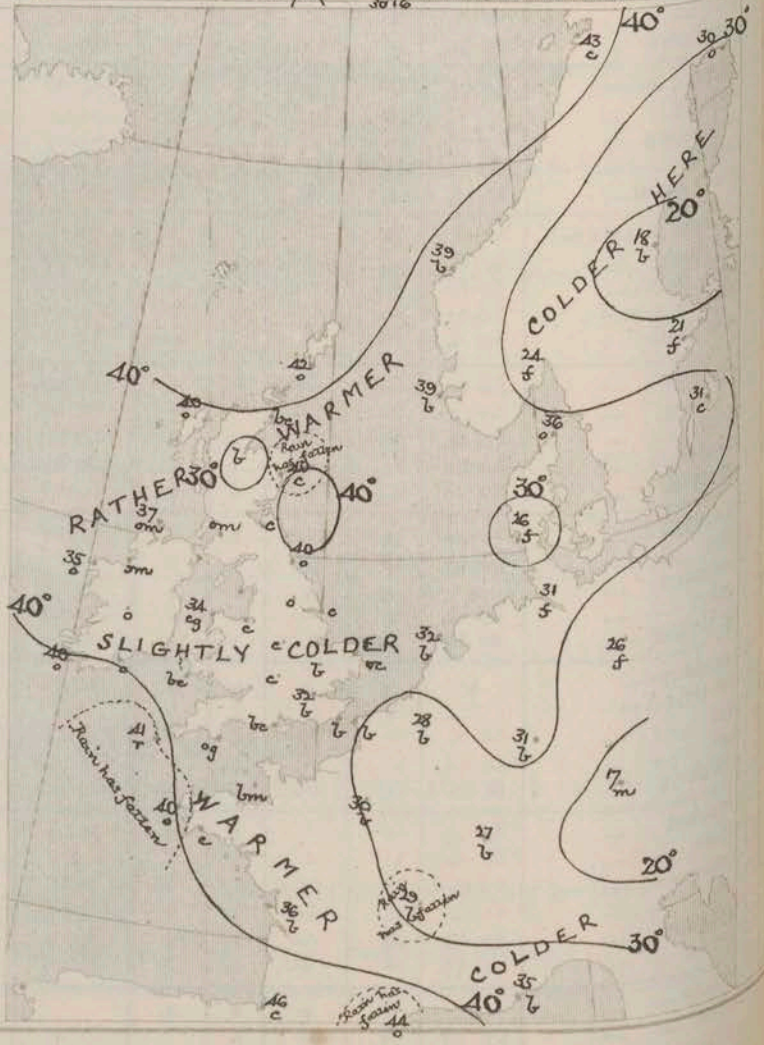
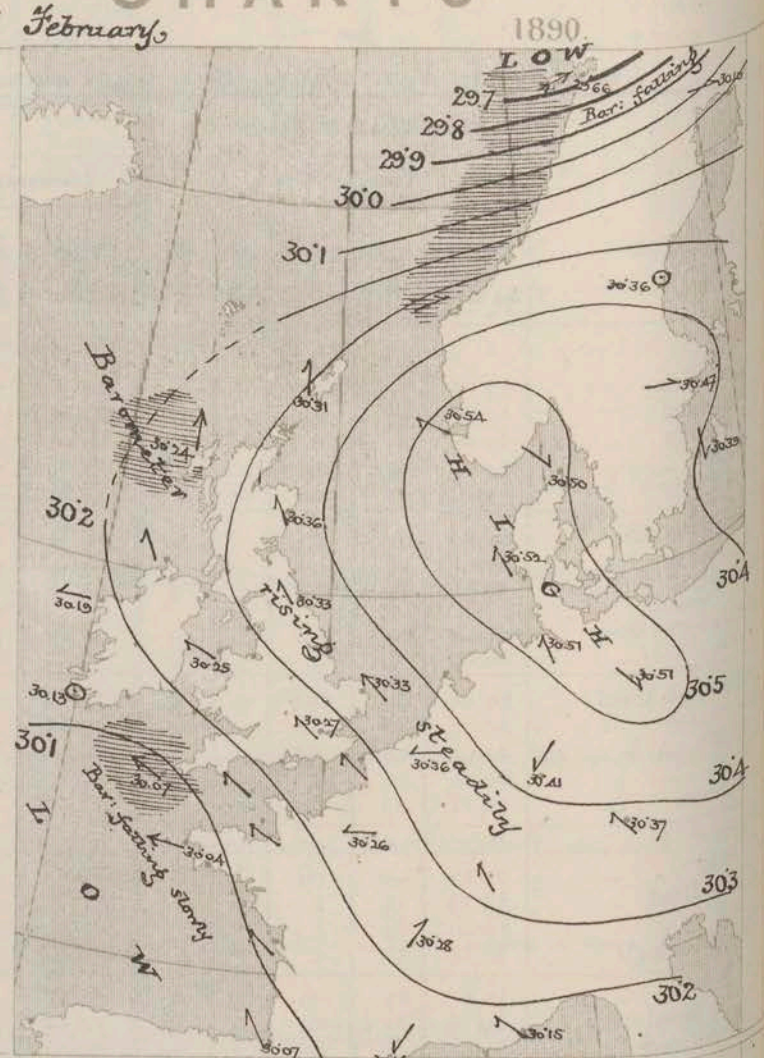
RAINFALL—A dotted line separates the districts in which rain has fallen from those where there has been none. Falls of 0.5 in. or more, are quoted in figures.

MEANS OF TEMPERATURE IN SHADE, AND RAINFALL.

(For the month of February.)

STATIONS.	TEMPERATURE.				RAINFALL. (Inches.)
	Daily Max.	Daily Min.	at 8 a.m. Dry.	Wet.	
Sumburgh Head.....	42.0	34.7	38.7	37.7	3.29
Stornoway	43.5	34.7	39.8	38.2	3.97
Wick	43.4	33.5	38.4	37.0	2.02
Nairn	43.4	33.8	37.4	35.7	1.51
Aberdeen	43.5	34.2	37.8	36.2	2.51
Leith	46.0	34.7	39.2	37.7	1.58
Shields	44.3	35.7	39.2	37.9	1.03
York	45.3	34.2	38.2	37.1	1.88
Loughborough	46.0	34.5	38.4	37.3	2.00
Ardrossan	45.0	36.7	40.0	38.6	3.47
Donaghadee	45.8	37.0	40.7	39.7	2.71
Holyhead	46.1	39.3	42.3	40.8	2.90
Liverpool	46.3	36.9	39.9	38.3	1.85
Parsonstown	47.4	36.1	40.1	38.8	2.45
Valencia	50.2	40.8	45.1	43.4	5.20
Roche's Point	48.9	40.0	43.6	42.2	4.86
Pembroke	46.2	40.3	43.1	41.9	3.20
Seilly	49.7	43.7	46.9	45.3	2.98
Jersey	47.6	40.1	43.2	42.0	2.72
Hurst Castle	46.5	37.9	41.3	40.4	2.63
Dover	45.4	37.4	40.3	39.1	2.12
LONDON	48.9	36.0	39.7	38.6	1.89
Oxford	45.9	35.9	38.8	37.7	2.06
Cambridge	46.4	33.9	38.5	37.3	1.60
Yarmouth	43.5	35.2	38.9	38.2	2.02

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: and more over Denmark, Holstein, and the eastern parts of the North Sea.
 Lowest, 29.7 in: and less, over the western part of Lapland, 30.1 in: and less, at the extreme southwestern stations and over the Bay of Biscay.
 Gradient slight except in the far north.
 Barometer was rising in the east and south, changing very little in the west.

TEMPERATURE

Highest, (1.) 46° at Biarritz, 45° at Lisbon, 44° at Perpignan, and 41° at Sicily.
 (2.) 43° at Bodø, 42° at Dumburgh Ht., and 40° at Stromway, Aberdeen, and Shields.
 Lowest, 17° at Munich, 18° at Lorient, 21° at Stockholm, 26° at Berlin, 30° at Paris, and 32° in London.
 It went down to 31° in the shade, and 24° on the grass in London early this morning.

WIND

Moderate or light - from the E. over France, from SE. over the greater part of England and Ireland, and from the S.W. in Scotland.
 At Christianund it is light from W.S.W. and at Bodø there is a fresh gale from the same direction.

WEATHER

Fine and bright over many parts of Great Britain and France, foggy on the eastern shores of the North Sea.
 Rain in nearly all other places with rain at Sicily. There has been slight snow in several parts of France.

SEA

Rather rough in far north and at Sicily, moderate to smooth elsewhere.

PROBABLE CHANGES IN SYSTEM NOW PREVALENT

The shallow low pressure area in the extreme southwest seems likely to move northward outside our western coasts, and to cause milder and damper weather in Ireland. Fair cold weather is likely to hold at present over England.

FORECASTS

For the 24 hours ending at NOON on 11th FEB^{ry} 1890.

DISTRICTS.

FORECASTS.

- | | | |
|---|------------------|---|
| 0 | SCOTLAND NORTH | S ^W to SW ^W breezes; fair to showery, milder. |
| 1 | SCOTLAND EAST | |
| 2 | ENGLAND N.E. | SE ^W and S ^W breezes, light; fair. |
| 3 | ENGLAND EAST | |
| 4 | MIDLAND COUNTIES | SE ^W breezes, moderate or light; fair, very cold at night. |
| 5 | ENGLAND SOUTH | |

DISTRICTS.

FORECASTS

- | | | |
|---|---------------|--|
| 6 | SCOTLAND WEST | Same as N°0 |
| 7 | ENGLAND N.W. | |
| 8 | ENGLAND S.W. | SE ^W winds, moderate or fresh; rain at times, milder. |
| 9 | IRELAND NORTH | |
| 0 | IRELAND SOUTH | Very light breezes; fair, some showers. |
| | | |

WARNINGS

NONE ISSUED.

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

YESTERDAY'S 2 P.M. REPORTS.

	BAR:	THER:		WIND		WEA.	SEA		BAR:	THER:		WIND		WEA.	SEA
		D.	W.	D.	F.					D.	W.	D.	F.		
Skudesnaes ...	30.44	40	37	W	1	0	2	Holyhead ...	30.21	41	39	ENE	3	0	2
Sumburgh Head ...								Valencia ...							
Stornoway ...	30.20	44	42	SW	5	bc	4	Scilly ...							
Aberdeen ...								Jersey ...	30.08	44	39	NE	3	0	2
Shields ...								Dungeness ...	30.17	39	36	ENE	0		
Ardrossan ...								London ...							
Malin Head ...	30.26	40	37	ENE	4	c	2	Yarmouth ...							
Mullaghmore ...								Rocheport ...	30.06	44	42	ENE	3	0	2
Beilmullet ...	30.16	45	41	ENE	2	0	*								

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

Weather fine and bright over France and the Bay of Biscay and several parts of Italy, as well as on the S. shores of the North Sea, the N. parts of our Islands, and in Sweden; cloudy, more or less elsewhere, but dry in most places, continuing fair over the British Islands during day, but slight showers in France.

Temperature highest on the Atlantic coast of Europe and the British Islands, 45° at Scilly, Valencia and exceeding 40° at Rode, Christiansund, Sumburgh Head, Stornoway, Bornum and Lisbon; 50° at Algiers, Malta and Brindisi. Lowest over Russia and S. Germany, 17° at Munich, 21° at Ruda. Pesth, Kiev, and 25° at Moscow and Hongk. As low as 20° at St. Petersburg and Archangel.

Wind mainly E. over the southern half of Europe - moderate generally, but fresh to strong in some places. SE. on our NW. coasts, S. in Scotland, SW. over the N. parts of Norway, and NW. over Finland. to veer somewhat over England and Ireland later.

Barometer 30.3 ins. to nearly 30.5 ins. in large anticyclone, the centre of which lay over Denmark, lowest 29.8 ins. and less in a depression lying over the White Sea and 29.9 ins., and less in the W. and S. of the Iberian Peninsula as well as over Algeria and Tunis. Falling somewhat over the British Islands first, subsequently rising again.

SUMMARY OF CHANGES IN THE WEATHER OVER THE BRITISH ISLANDS AND THEIR NEIGHBOURHOOD FROM THE 2ND TO THE 8TH FEBRUARY 1890

The weather experienced over the United Kingdom during this week may be divided into two distinct parts. In the first of these (lasting from Sunday to Tuesday) the gradient for cyclonic SW. winds which prevailed at the beginning of February passed slowly away in a northerly direction, and a high pressure band spread gradually over England and Ireland from the S.W. so that while light SW. to NW. breezes prevailed over our northern districts, E. breezes of little strength appeared over France and the Channel. Early on Wednesday, however, a new high-pressure (anticyclonic) system began to spread over Ireland and the westward, and gradually became the dominant pressure-system of western Europe; on Thursday and Friday its central area covered the NW. and N. parts of the Kingdom and on Saturday it had reached the North Sea. As this change took place temperature fell decidedly; E. winds, moderate to strong in force set in over the southern parts of our area with dry and at times bright weather; milder W. and SW. winds, and slight showers, prevailed in the far North, while fogs were reported at the intermediate stations.

At the close of the week there was no indication of any immediate change.

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 11th February 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 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 ...	30.17	30	2	0	b	30.29	+ .19	30	28	0	WSW	2	c	*	34	25	—	
Hernösand ...	30.46	21	2	0	b	30.52	+ .16	16	15	-2	2	0	b	*	36	16	—	
Stockholm ...	30.52	26	WNW	2	o	30.59	+ .12	22	21	+1	2	0	f	*	32	19	—	
Wisby ...	30.45	30	N	2	f	30.57	+ .18	28	28	-3	NNW	2	c	*	32	28	—	
Bodö ...	30.19	37	WSW	6	f	30.29	+ .63	41	40	-2	WSW	4	o	2	43	?	0.43	
CHRISTIANIA.																		
Christiansund ...	30.44	37	ESE	2	b	30.45	+ .09	32	31	-7	2	0	b	4	43	32	—	
Skudesnaes ...	30.53	35	SE	4	o	30.57	+ .03	36	35	+1	SE	4	o	4	36	34	—	
Christiania Fjord (Farder) ...	30.56	27	2	0	n	30.61	+ .11	26	22	+2	N	2	f	1	27	21	—	
Skagen (The Scaw) ...	30.56	33	2	0	f	30.59	+ .09	32	32	-4	NNW	1	o	1	41	30	—	
Fanö ...	30.57	31	E	4	f	30.56	+ .04	30	30	+4	E	2	o	*	?	?	—	
SCOTLAND.																		
Sumburgh Head ...	30.27	41	SSE	4	o	30.27	- .04	42	40	0	SSE	3	o	5	43	38	—	
Stornoway ...	30.17	39	S	5	o	30.10	- .14	43	42	+3	SE	6	bc	5	43	38	—	
Wick ...	30.33	40	S	6	b	30.25	- .05	35	37	-1	S	5	bc	4	43	35	—	
Nairn ...	30.21	34	2	0	b	30.22	- .08	37	35	+5	SW	1	b	0	44	25	—	
Aberdeen ...	30.23	40	S	3	o	30.34	- .02	39	37	-1	SSE	3	cm	4	41	37	—	
IRELAND.																		
Leith ...	30.30	35	E	1	b	30.33	0.0	27	27	-10	2	0	b	*	39	26	—	
Shields ...	30.34	40	SE	3	o	30.37	+ .04	36	35	-4	SW	2	n	2	41	34	—	
Spurn Head ...	30.34	40	ESE	5	o	30.35	+ .04	40	38	+2	E	3	c	4	41	36	—	
York ...	30.35	39	E	1	o	30.39	+ .05	32	32	-5	E	1	f	*	42	29	—	
Loughborough ...	30.33	38	E	1	b	30.36	+ .06	30	30	-3	ENE	1	of	*	47	28	—	
BRITISH ISLANDS.																		
Ardrossan ...	30.27	37	E	2	om	30.27	- .03	32	31	-4	NE	2	bm	1	40	30	—	
Malin Head ...	30.18	37	SSE	4	o	30.10	- .14	40	39	+3	SSE	4	b	2	41	35	—	
Mullaghmore ...	30.16	38	ESE	4	bc	30.08	- .13	44	42	+5	SE	5	bc	4	45	37	—	
Belmullet ...	30.15	38	SSE	2	o	30.02	- .17	40	38	+5	SSE	3	b	*	41	34	0.02	
Donaghadee ...	30.25	41	SE	4	o	30.24	- .03	43	42	+4	SE	4	n	2	43	38	—	
IRELAND.																		
Liverpool (Bidston) ...	30.29	36	SE	3	b	30.32	+ .02	29	29	-5	SSE	2	of	3	38	29	—	
Holyhead ...	30.25	38	SE	1	bm	30.24	- .01	37	35	+3	2	0	bm	0	41	33	—	
Parsonstown ...	30.14	37	2	0	bc	30.11	- .08	42	41	+6	SE	1	bc	*	43	35	0.04	
Valencia ...	30.05	40	ESE	4	om	29.99	- .14	48	45	+8	SE	6	bc	5	48	38	0.05	
Roche's Point ...	30.07	40	SSE	4	of	30.10	- .05	46	43	+6	S	5	bc	4	46	38	0.30	
IRELAND.																		
Pembroke (St. Ann's Hd.) ...	30.20	41	SE	5	b	30.21	+ .04	40	40	+4	SSE	5	bm	3	44	36	—	
Scilly ...	30.09	47	ESE	6	c	30.13	+ .06	48	47	+7	SE	5	bc	4	48	38	0.21	
Prawle Point ...	30.23	44	ESE	3	c	30.22	+ .07	44	42	+6	ENE	3	b	2	45	38	—	
Jersey (St. Aubin's) ...	30.23	45	E	3	bm	30.22	+ .05	37	35	0	ENE	2	bm	2	47	35	—	
Hurst Castle ...	30.28	45	SE	4	bm	30.27	+ .06	40	37	0	E	4	bcn	2	45	34	—	
IRELAND.																		
Dungeness ...	30.28	42	SE	3	b	30.27	+ .01	37	36	0	SSE	4	b	2	44	36	—	
London ...	30.33	39	SE	2	bf	30.31	+ .04	30	30	-2	2	0	f	*	47	30	—	
Oxford ...	30.35	37	SE	1	b	30.33	+ .06	29	29	-4	NE	1	f	*	44	26	—	
Cambridge ...	30.34	37	ESE	1	b	30.34	+ .04	26	24	-5	N	1	b	*	48	23	—	
Yarmouth ...	30.36	40	SE	5	b	30.34	+ .01	38	36	+1	SSE	5	b	4	41	35	—	
GERMANY.																		
Cuxhaven ...	30.53	30	SSE	3	f	30.52	+ .01	30	29	-1	SE	3	o	*	?	29	—	
Berlin ...	30.51	30	NNE	4	o	30.54	+ .03	30	30	+4	ESE	3	o	*	32	?	—	
Wiesbaden ...	*	*	*	*	*	30.37	- .04	39	37	+8	NE	2	b	*	?	28	—	
Munich ...	30.34	26	E	3	b	30.29	- .08	27	26	+10	NE	4	c	*	32	?	—	
The Helder ...	30.45	35	E	1	b	30.45	+ .03	31	30	-1	E	1	b	2	36	30	—	
FRANCE AND BELGIUM.																		
Brussels (9 a.m.) ...	*	32	E	2	b	30.32	- .04	29	28	+1	E	1	b	*	40	28	—	
Cape Gris Nez ...	?	40	NE	1	b	?	?	30	28	0	E	2	b	1	45	30	?	
Paris ...	30.32	46	SSE	4	b	30.21	- .05	26	25	-4	NE	2	b	*	48	25	—	
Brest ...	?	44	SE	3	b	30.11	+ .07	44	41	+4	SE	4	o	3	52	36	—	
Lorient ...	30.16	44	SE	3	b	30.14	+ .03	38	36	+3	E	4	c	2	48	34	—	
FRANCE AND BELGIUM.																		
Rochefort ...	30.23	48	SSE	2	b	30.18	- .01	36	35	0	E	3	b	2	55	30	—	
Belfort ...	30.21	32	E	1	b	30.09	?	32	23	+5	N	2	b	*	39	17	—	
Lyons ...	?	35	NNW	1	b	30.19	- .09	26	23	-3	SE	1	b	*	43	26	—	
Nice ...	30.07	43	SW	2	b	30.11	- .04	39	35	+4	ENE	3	o	3	50	?	—	
Perpignan ...	30.15	45	2	0	b	30.13	- .03	33	33	-11	SW	2	b	*	52	14	—	
Biarritz ...	30.12	50	E	3	b	30.09	+ .02	42	37	-4	SE	3	b	2	57	41	—	
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 11th February, 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:

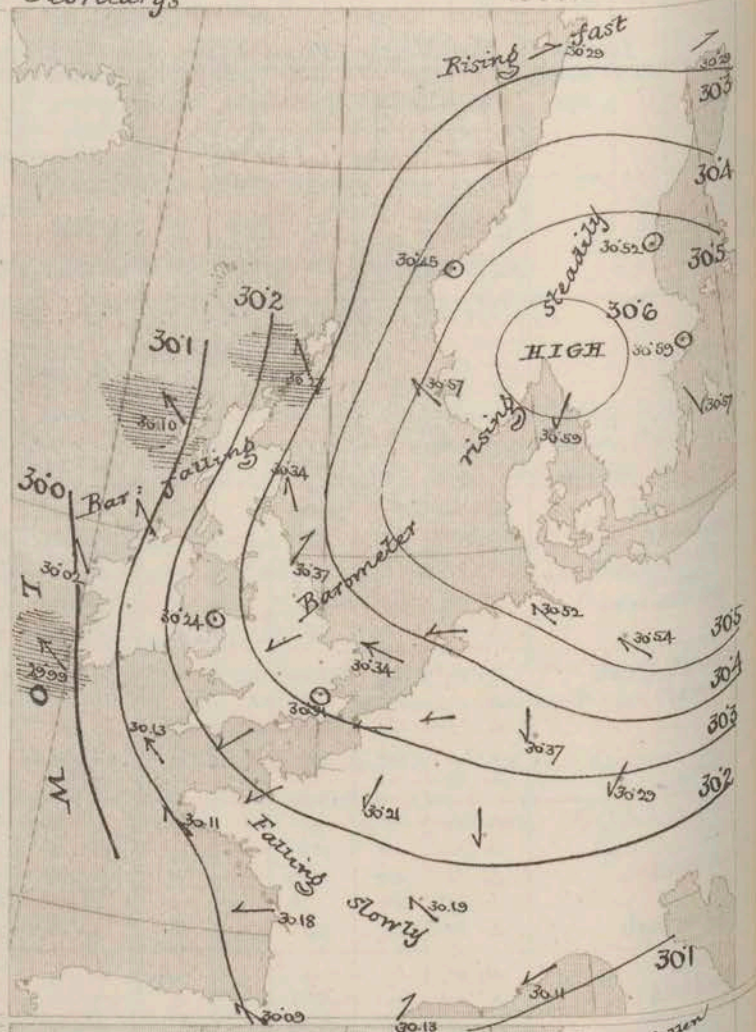
— Rough. — High.

MEAN HEIGHT OF THE BAROMETER

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

During the 15 Years: 1871—1885.

STATIONS.	MEAN READINGS.
Sumburgh Head	29.713
Stornoway	29.700
Wick	29.737
Nairn	29.747
Aberdeen	29.780
Leith	29.803
Shields	29.847
York	29.884
Loughborough	29.912
Ardrossan	29.905
Dounglass	29.812
Holyhead	29.848
Liverpool	29.873
Parsonstown	29.834
Valencia	29.850
Roche's Point	29.850
Pembroke	29.875
Seilly	29.911
Jersey	29.975
Hurst Castle	29.944
Dover	29.957
LONDON	29.949
Oxford	29.938
Cambridge	29.935
Yarmouth	29.924



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

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

WEATHER is shown by Letters of the Beaufort Scale.

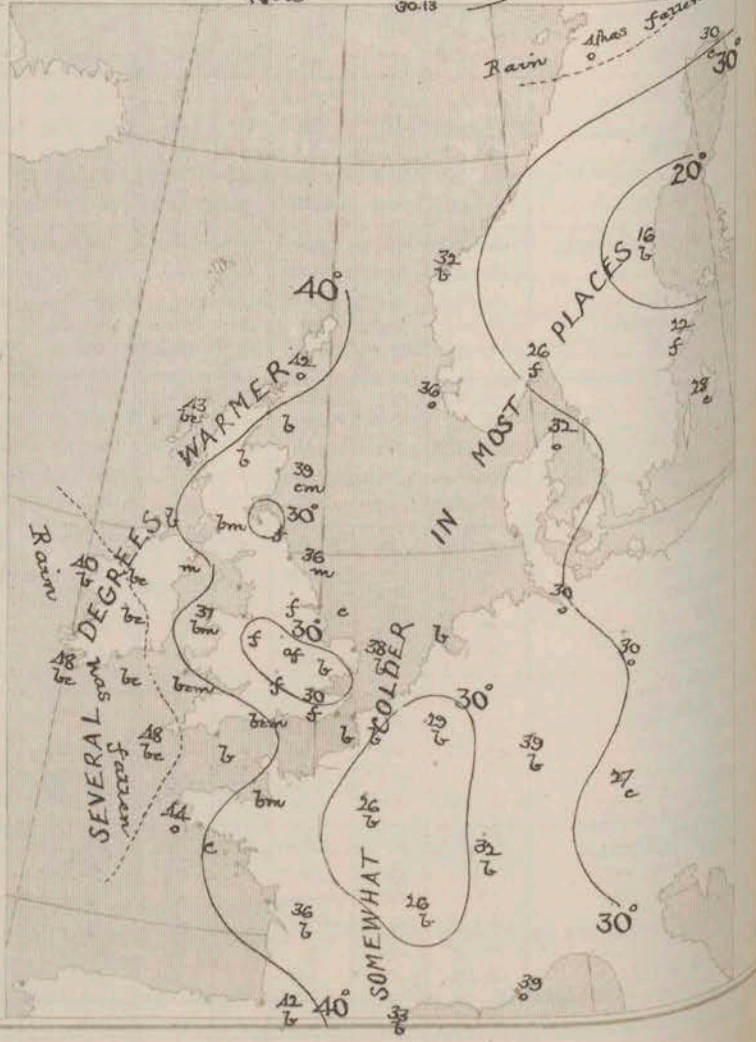
RAINFALL—A dotted line separates the districts in which rain has fallen from those where there has been none. Falls of 0.5 in. or more, are quoted in figures.

MEANS OF TEMPERATURE IN SHADE, AND RAINFALL.

(For the month of February.)

STATIONS.	TEMPERATURE.				RAINFALL (Inches.)
	Daily Max.	Daily Min.	at 8 a.m. Dry.	at 8 a.m. Wet.	
Sumburgh Head	42.6	34.7	38.7	37.7	3.29
Stornoway	43.5	34.7	39.8	38.2	3.97
Wick	43.4	33.5	38.4	37.0	2.02
Nairn	43.4	33.8	37.4	35.7	1.51
Aberdeen	43.5	34.2	37.8	36.2	2.51
Leith	45.6	34.7	39.2	37.7	1.58
Shields	44.3	35.7	39.2	37.9	1.63
York	45.3	34.2	38.2	37.1	1.88
Loughborough	46.0	34.5	38.4	37.3	2.00
Ardrossan	45.0	35.7	40.0	38.6	3.47
Dounglass	45.8	37.0	40.7	39.7	2.71
Holyhead	46.1	39.3	42.3	40.8	2.90
Liverpool	45.3	36.9	39.9	38.3	1.85
Parsonstown	47.4	36.1	40.1	38.8	2.45
Valencia	50.2	40.8	45.1	43.4	5.29
Roche's Point	48.9	40.0	43.6	42.2	4.88
Pembroke	46.2	40.3	43.1	41.9	3.20
Seilly	49.7	43.7	46.9	45.3	2.98
Jersey	47.6	40.1	43.2	42.0	2.72
Hurst Castle	46.5	37.9	41.3	40.4	2.63
Dover	45.4	37.4	40.3	39.1	2.12
LONDON	46.9	36.0	39.7	38.6	1.89
Oxford	45.9	35.9	38.8	37.7	2.06
Cambridge	46.4	35.9	38.3	37.3	1.50
Yarmouth	47.3	35.2	38.9	38.2	2.02

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



GENERAL SITUATION AT 8 A.M.

PRESSURE

Highest, 30.4 ins: to 30.0 ins: over the North Sea, Denmark, the Baltic, and Scandinavia.
 Lowest, 30.0 ins: and less, off our extreme western coast, 30.1 ins: and less, over the northern parts of the Mediterranean.
 Gradients were moderate over Ireland and Scotland, slight elsewhere.
 Barometer was changing little and irregularly, — inclined to fall again over France.

TEMPERATURE

Highest, 45° at Valencia and Seilly, 46° at Rocher Point, 47° at Brest and Havle Point, and between 40° and 43° at Biarritz, Muntz Lake, Posenstoun, Helmslet, Stornoway, Sumburgh Head and Christiansund.
 Lowest, 16° at Amsterdam, 22° at Stockholm, 23° at Lyons and Paris, 27° at Munich, 29° at Brest and Oxford, and 30° at Berlin, Loughborough and in London.
 In London the minimum temperature on the grass was 24°, and a glazed frost occurred on trees, gates &c exposed to the sky.

WIND

Light to moderate from between N. and E. at the French stations, E. in the Channel and east of England, SE. to S. in Ireland and Scotland (strong in places) and SW. in Lapland.

WEATHER

Fine in most places, dull in North Germany, very foggy over England — especially in London.
 Rain fell yesterday at some of the southwestern stations and at Rode.

SEA

Rather rough at Sumburgh Head, Stornoway, and Valencia, moderate to smooth elsewhere.

PROBABLE CHANGES IN SYSTEM NOW PREVALENT

No decided change in the weather is indicated at present — mild days and cold foggy nights are probable over England while these conditions last.

FORECASTS

For the 24 hours ending at NOON on 12th Feby 1890.

DISTRICTS.

FORECASTS.

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

S. and SE. breezes, moderate to light; fair generally, becoming colder.
 E. and SE. breezes, light; fair, cold and foggy at night.

DISTRICTS.

FORECASTS

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

Same as Nos 0 and 1.
 SE. breezes, moderate, fair generally.
 SE. breezes, fresh to moderate; some showers.

WARNINGS

NONE ISSUED.

Note.—The South Cone, point downwards (∇), means that gales, or strong winds, are probable at first from the Southward (from S. E. round by S. to N. W.). Should it appear likely that a gale beginning from between W. and N. W. is likely to veer towards N. or N. E., the North Cone is hoisted in preference to the South Cone.
 The North Cone, point upwards (\blacktriangle), 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:						SEA	THER:						SEA
	BAR:	D.	W.	D.	F.	WEA.		BAR:	D.	W.	D.	F.	WEA.	
Skudesnaes ...	30.55	35	34	SE	2	0	2	Holyhead ...	30.24	39	36	SE	2	bc
Sumburgh Head ...	30.28	43	40	S	3	0	4	Valencia ...	30.09	41	39	E	3	om
Stornoway ...	30.20	41	40	S	5	0	5	Scilly ...	30.06	44	43	ESE	6	7m
Aberdeen ...	30.33	40	36	SE	4	0	4	Jersey ...	30.23	43	40	ESE	3	bc
Shields ...	30.34	40	37	SE	3	0	2	Dungeness ...	30.29	43	40	SE	4	bc
Ardrossan ...	30.28	40	38	ENE	3	cm	2	London ...	30.31	44	41	ESE	2	bc
Malin Head ...	30.19	37	35	SE	4	om	2	Yarmouth ...	30.34	41	39	ESE	4	bc
Mullaghmore ...	30.17	39	36	SE	4	om	3	Rochefort ...	30.22	40	46	ESE	3	bc
Belmullet ...	30.15	38	37	SE	2	0	*							

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

Weather fair generally, except in the extreme north and east, but cloudy in many places, with rain at one or two of our southwestern stations, snow at Moscow. A considerable fall of rain during the day at Scilly, Rocher Point, and Bodø, and small quantities at some other of the Irish stations.

Temperatures in morning 50° or more at Boudoir, Malta, Algiers, Barcelona, and Langensie, 40° or more at many stations on the Atlantic coasts, 43° at Bodø. Lowest over Hungary, South Germany and the north of Russia, the minima being at Bernabadi, 14° at Munich, 12° at Kiev, 14° at Archangel, 18° at Hammar, 19° at Petersburg, 23° at Moscow. Rising decidedly in the west of France and the British Isles later, but cold at night over England and the Continent.

Wind light to moderate in force, anticyclonic in direction; — mainly E² at the southern and southwestern stations, to S¹ over the British Islands and North Sea, SW to W¹ over the north of Scandinavia, N¹ over the Baltic, North Germany and Poland. SE¹ wind freshening at our southwestern stations later.

Barometer highest, 30.2 ins. to 30.5 ins. and more, in an anticyclone covering the greater part of Europe, and having its central area over Denmark, the south of Norway, and North Germany; lowest, 29.7 ins. and less, in a depression over Denmark, 29.5 ins. and less, in another over the southeastern parts of the Mediterranean, and apparently 30.0 ins. and less, in a shallow system over the Atlantic to the southwest of our Islands. Northern depression travelling away northwards later, that in the west moving northwards outside our 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).

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DAILY WEATHER REPORT.

for Wednesday, 12th Feb^{ry}.

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 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.
Haparanda ...	30.35	22	2	0	bc	30.40	+11	13	12	-17	2	0	bc	*	32	?	—	
Hernösand ...	30.54	15	2	0	bc	30.54	+02	6	5	-10	2	0	bc	*	37	?	—	
Stockholm ...	30.62	23	2	0	f	30.60	+01	25	24	+3	ESE	2	0	*	20	19	—	
Wisby ...	30.62	27	2	2	0	30.59	+02	30	28	+2	N	2	0	*	30	25	—	
Bodö ...	30.38	41	WNW	4	0	30.39	+10	41	39	0	S	1	C	1	43	39	—	
Christiansund	30.45	34	2	0	bc	30.36	-09	29	27	-3	2	0	bc	4	37	28	—	
Skudesnaes ...	30.52	36	SSE	4	0	30.40	-17	32	30	-4	SSE	4	C	4	37	32	—	
Christiania Fjord	30.58	31	NNE	2	bc	30.54	-07	20	18	-6	NNE	2	bc	1	32	19	—	
Skagen (Pierder)	30.56	28	SSE	1	0	30.51	-08	29	28	-3	SSE	2	bc	1	32	27	—	
Fanø (The Scaw)	30.50	31	ESE	4	0	30.39	-17	30	30	0	ESE	4	0	*	32	28	—	
Sumburgh Head	30.26	42	SSE	4	0	30.13	-14	42	39	0	SSE	5	0	6	45	40	—	
Stornoway ...	30.04	43	S	4	bc	29.85	-25	42	40	-1	SSE	6	bc	4	47	39	—	
Wick ...	30.19	40	S	6	0	30.05	-20	41	39	+2	S	7	0	5	42	35	—	
Nairn ...	30.15	40	SW	1	bc	29.98	-24	37	35	0	ESE	3	bc	2	48	27	—	
Aberdeen ...	30.27	40	SSE	4	bc	30.11	-23	39	36	0	SSE	5	0.9.9	5	41	39	—	
Leith ...	30.21	37	ESE	2	bc	30.04	-25	36	35	+9	S	1	0	*	43	27	—	
Shields ...	30.24	39	ESE	4	C	30.07	-30	38	35	+2	SSE	4	0	4	42	36	—	
Spurn Head ...	30.21	40	ESE	5	bc	30.02	-33	37	35	-3	ESE	6	C	5	42	35	—	
York ...	30.25	39	E	1	bc	30.09	-30	34	33	+2	E	1	0	*	44	31	—	
Loughborough	30.21	36	E	1	bc	30.05	-31	32	31	+2	ESE	3	0	*	45	29	—	
Ardsrossan	30.15	41	E	3	bc	29.96	-31	35	34	+3	ENE	3	bc	2	46	30	—	
Malin Head ...	30.04	41	S	0	bc	29.94	-36	37	35	-3	SSE	5	bc	3	47	36	—	
Mullaghmore ...	29.97	44	SSE	6	bc	29.65	-43	39	37	-5	SSE	7	bc	4	47	37	—	
Belmullet ...	29.89	45	SSE	4	bc	29.59	-43	39	38	-1	SSE	4	0	*	49	37	—	
Donaghadee ...	30.12	42	SSE	5	bc	29.91	-33	40	39	-3	SSE	6	C	4	47	40	—	
Liverpool (Bidston)	30.18	35	SSE	2	bc	29.96	-36	33	32	+4	ESE	6	C	4	36	29	—	
Holyhead ...	30.10	38	ESE	3	bc	29.88	-36	35	33	-2	E	3	bc	1	51	33	—	
Parsonstown ...	29.99	42	SSE	1	bc	29.69	-42	40	38	-2	SSE	3	C	*	50	39	—	
Valencia ...	29.86	48	ESE	6	bc	29.47	-52	48	46	0	ESE	7	0.9	6	51	45	0.15	
Roche's Point...	29.95	46	SSE	5	bc	29.60	-50	47	44	+1	SSE	8	C	5	48	45	—	
Pembroke (St. Ann's Hd.)	30.06	38	ESE	5	C	29.80	-41	40	40	0	ESE	6	0.9	4	44	37	—	
Scilly ...	29.95	47	ESE	7	bc	29.67	-46	47	47	-1	SSE	7	bc	6	50	45	—	
Prawle Point ...	30.06	41	E	4	C	29.85	-37	40	38	-4	E	4	bc	3	47	39	—	
Jersey (St. Aubin's)	30.07	41	E	3	bc	29.89	-33	38	37	+1	ESE	3	bc	3	49	34	—	
Hurst Castle ...	30.11	42	ESE	5	0.9	29.95	-32	39	36	-1	ESE	4	bc	2	43	35	—	
Dungeness ...	30.13	41	ESE	6	bc	30.00	-27	33	32	-4	SSE	5	bc	3	43	32	—	
London ...	30.17	37	ESE	3	bc	30.02	-29	30	29	0	ESE	2	bc	*	45	30	—	
Oxford ...	30.16	34	NW	1	bc	30.02	-31	29	28	0	ENE	1	bc	*	43	28	—	
Cambridge ...	30.22	37	N	1	bc	30.05	-29	34	32	+8	ESE	2	0	*	46	24	—	
Yarmouth ...	30.23	39	E	6	bc	30.09	-25	35	34	-3	ESE	6	C	5	41	33	—	
Cuxhaven ...	30.48	30	ESE	5	0	30.36	-16	31	30	+1	ESE	5	C	*	32	29	—	
Berlin ...	30.50	33	ESE	2	0	30.43	-11	24	23	-6	ESE	5	bc	*	34	27	—	
Wiesbaden ...	*	*	*	*	*	30.16	-21	28	26	-11	NW	4	bc	*	?	12	—	
Munich ...	30.21	22	E	5	bc	30.06	-23	12	12	-15	E	5	bc	*	?	?	—	
The Helder ...	30.34	30	E	3	bc	30.21	-24	31	30	0	E	3	C	3	32	28	—	
Brussels (9 a.m.)	*	36	E	3	bc	30.10	-22	26	26	-3	E	2	bc	*	42	?	—	
Cape Gris Nez	?	38	NW	1	bc	?	?	27	25	-3	E	3	bc	2	43	25	—	
Paris ...	30.11	38	NW	1	bc	29.99	-22	25	24	-1	NW	1	bc	4	45	24	—	
Brest ...	?	49	SSE	2	bc	?	?	42	41	-2	SSE	4	bc	4	54	39	0.08	
Lorient ...	30.03	43	SSE	3	bc	29.84	-30	34	33	-4	ESE	3	0	2	48	32	—	
Rochefort ...	30.08	46	NW	3	bc	29.95	-23	33	32	-3	E	3	bc	?	57	27	—	
Belfort ...	30.02	34	SSE	1	bc	29.87	-22	27	20	-5	SSE	2	bc	*	39	21	—	
Lyons ...	30.08	32	N	1	bc	29.89	-30	28	27	+2	N	1	bc	*	39	?	—	
Nice ...	30.09	34	WNW	5	bc	30.01	-10	29	27	-10	NW	5	0	4	41	28	0.47	
Perpignan ...	30.01	44	W	2	bc	29.88	-28	38	37	+5	NW	2	0	*	54	?	—	
Barritz ...	29.97	48	NW	3	bc	29.85	-24	46	42	+4	SW	4	0	2	57	41	—	
Corunna ...	30.03	52	NW	3	bc	30.00	-07	45	45	+3	2	0	bc	5	59	45	—	
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, 12th February,

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 forces thus—

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

→ = forces 5 to 7; → = forces 1 to 4.

⊙ = dead calm.

SEA DISTURBANCE—Where considerable, is shown thus:

≡ = Rough. ≡ = High.

MEAN HEIGHT OF THE BAROMETER

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

During the 15 Years: 1871—1885.

STATIONS.	MEAN READINGS.
	ins.
Sumburgh Head	29.713
Stornoway	29.700
Wick	29.737
Nairn	29.747
Aberdeen	29.780
Leith	29.803
Shields	29.847
York	29.884
Loughborough	29.912
Ardrossan	29.805
Donaghadee	29.812
Holyhead	29.848
Liverpool	29.873
Parsonstown	29.834
Valencia	29.850
Roche's Point	29.850
Pembroke	29.875
Scilly	29.911
Jersey	29.975
Hurst Castle	29.944
Dover	29.957
LONDON	29.949
Oxford	29.938
Cambridge	29.935
Yarmouth	29.928

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

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

WEATHER is shown by Letters of the Beaufort Scale.

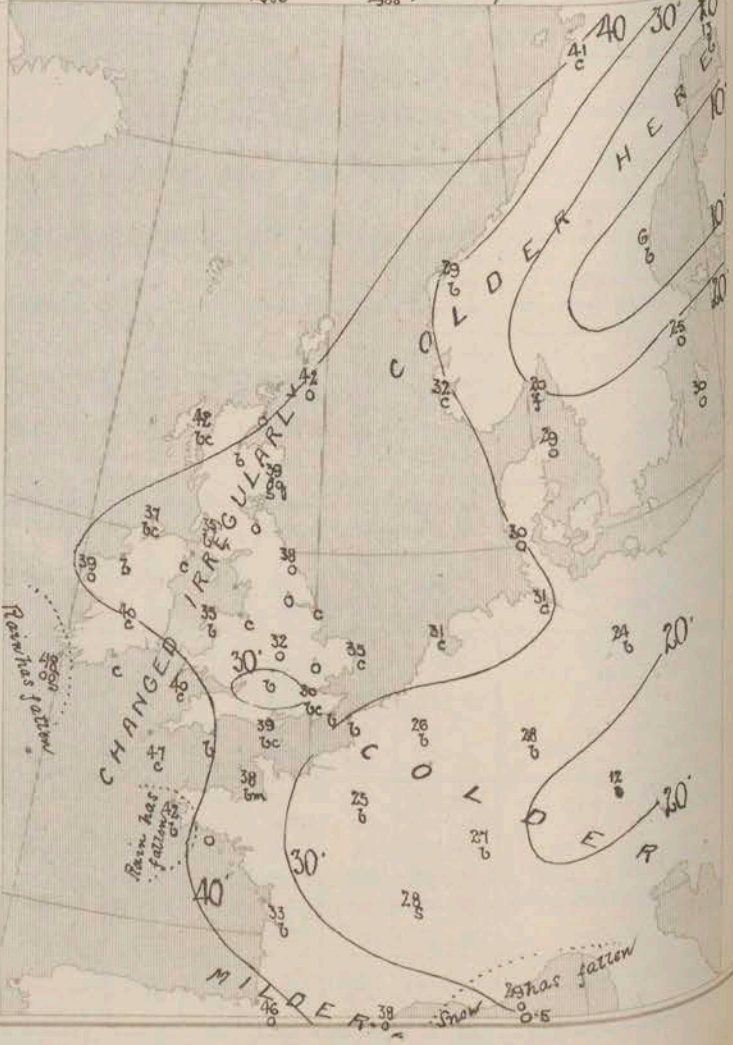
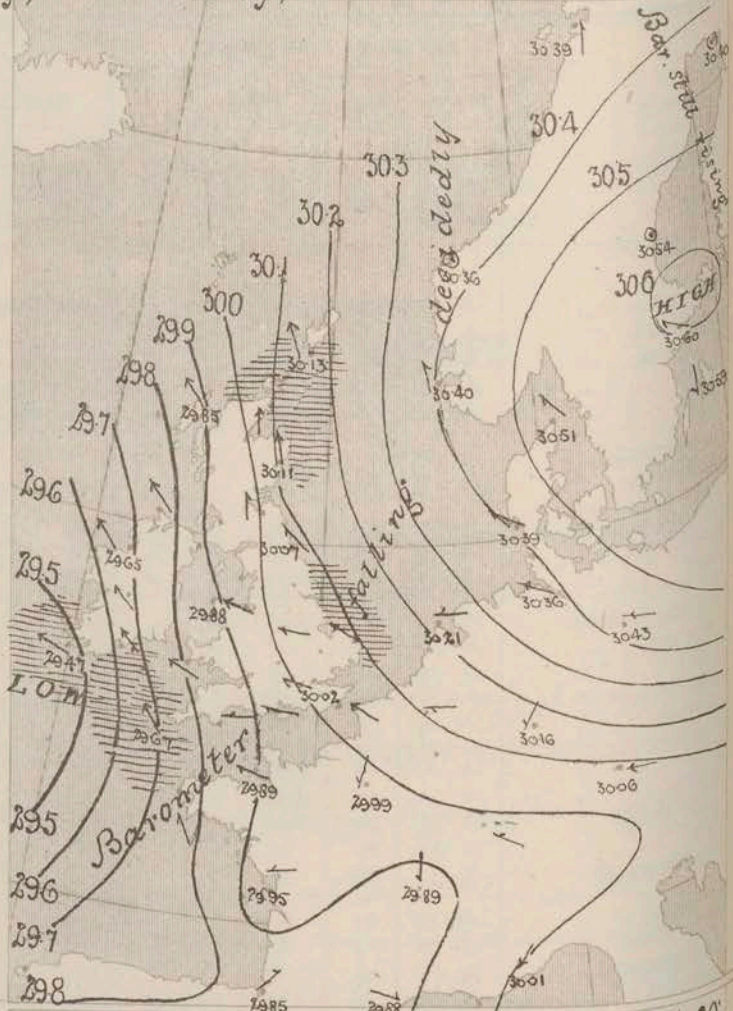
RAINFALL—A dotted line separates the districts in which rain has fallen from those where there has been none. Falls of 0.5 in. or more, are quoted in figures.

MEANS OF TEMPERATURE IN SHADE, AND RAINFALL.

(For the month of February.)

STATIONS.	TEMPERATURE.				RAINFALL. (Inches.)
	Daily Max.	Daily Min.	at 8 a.m.		
			Dry.	Wet.	
Sumburgh Head.....	42.6	34.7	38.7	37.7	3.29
Stornoway	43.6	34.7	39.3	38.2	3.97
Wick	43.4	33.5	38.4	37.0	2.02
Nairn	43.4	33.8	37.4	35.7	1.51
Aberdeen	43.5	34.2	37.8	36.2	2.51
Leith	46.6	34.7	39.2	37.7	1.58
Shields	44.3	35.7	39.2	37.9	1.63
York	45.3	34.2	38.2	37.1	1.83
Loughborough	46.0	34.5	38.4	37.3	2.00
Ardrossan	45.0	36.7	40.0	38.6	3.47
Donaghadee.....	45.8	37.0	40.7	39.7	2.71
Holyhead.....	46.1	39.3	42.3	40.8	2.90
Liverpool	45.3	36.9	39.9	38.3	1.85
Parsonstown	47.4	36.1	40.1	38.8	2.45
Valencia	50.2	40.8	45.1	43.4	5.29
Roche's Point	48.0	40.0	43.6	42.2	4.86
Pembroke.....	49.2	40.3	43.1	41.9	3.20
Scilly	49.7	43.7	46.9	45.3	2.98
Jersey	47.6	40.1	43.2	42.0	2.72
Hurst Castle	46.5	37.9	41.3	40.4	2.63
Dover	45.4	37.4	40.3	39.1	2.12
LONDON	45.9	36.0	39.7	38.6	1.80
Oxford	45.9	35.9	38.8	37.7	2.00
Cambridge	46.4	33.9	38.3	37.3	1.60
Yarmouth	43.6	35.2	38.9	37.2	2.02

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, 30.5 in. to 30.6 in. in anticyclone lying over the eastern shores of the North Sea and the Baltic.
Lowest, 29.4 in. and less, in a depression lying off our southwest coasts.

Gradients rather steep in the west, moderate over England and the North Sea, slight elsewhere.

Barometer falling decidedly over our Islands and France, but almost steady over Sweden.

TEMPERATURE

Highest, 48° at Valencia, 47° at Bally and Rocher Point, 46° at Biarritz, 46° at Lisbon, and 41° at Lumburg, H^{ts} and Stonemary.
Lowest, 6° at Horta and 12° at Munich, 13° at Haparanda, 20° at Fander, 24° at Berlin, 25° at Paris and Stockholm, 26° at Brest and 27° at Belfast.
In London the minimum temperature on the grass was 24°.

WIND

Strong from the SEth or Sth over the United Kingdom, blowing a gale in exposed places, fresh from E. in Germany, and light or moderate from E. and NE. at the French stations. Over Scandinavia the winds are light and variable.

A strong gale was reported at Wick during the night.

WEATHER

Dull at some of the western and northern stations, and in Denmark and the south of France, with snow at Lyons, but fine and bright elsewhere. Rain has fallen at Valencia and Brest and considerable quantities of snow in the Riviera during the past 24 hours.

SEA

Rough on exposed parts of our coast, moderate in most other places.

PROBABLE CHANGES IN SYSTEM NOW PREVALENT

The depression in the west appears likely to move away in a northerly direction so that strong Sth and SEth winds are probable in most places, with perhaps rain in the extreme west and north.

FORECASTS

For the 24 hours ending at NOON on 13th FEB^{ry} 1890.

DISTRICTS.

FORECASTS.

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

Sth and SEth gales or strong winds; frost, squally, some rain.

Same as N° 5.

SEth winds, fresh or strong; fair as a whole, cold.

DISTRICTS.

FORECASTS

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

SEth winds, strong; squally, cloudy, perhaps some showers.

Same as N° 5.

SEth and Sth winds, strong, a gale in places; squally, unsettled, some rain.

WARNINGS

The SOUTH CONE was hoisted yesterday in districts 0.1. and 10.

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

YESTERDAY'S 2 P.M. REPORTS.

	THER:		WIND		WEA.	SEA		THER:		WIND		WEA.	SEA
	BAR:	D.	W.	D.				BAR:	D.	W.	D.		
Skudesnaes ...	30.56	37	36	SE	4	o	4	Holyhead ...	30.16	49	43	SE	1
Sumburgh Head ...	30.26	44	41	SE	4	bc	5	Valencia ...	29.95	51	46	SE	6
Stornoway ...	30.07	47	46	S	6	bc	5	Scilly ...	30.08	49	47	SE	6
Aberdeen ...	30.31	41	38	SE	4	og	4	Jersey ...	30.13	48	45	ENE	3
Shields ...	30.29	40	37	ENE	3	c	3	Dungeness ...	30.21	43	39	ENE	6
Ardrossan ...	30.21	46	44	NE	3	bm	2	London ...	30.22	42	39	ENE	4
Malin Head ...	30.06	46	42	SE	4	bm	3	Yarmouth ...	30.30	41	39	ENE	4
Mullaghmore ...	30.03	46	43	SE	6	cm	4	Rochefort ...	30.15	51	46	ENE	3
Belmullet ...	29.96	49	45	SE	4	b	*						

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

Weather fine generally over western and southern Europe, as well as in Sweden and Finland, cloudy or overcast elsewhere, the Baltic Provinces. Snow at Kiev later, rain at Rost and Valencia, and weather becoming squally and unsettled in the northeast of Scotland continuing fine in other parts of our Islands.

Temperature risen considerably over Scotland and Ireland, fallen over Russia, southwest of France and south of Italy. 50° at San Fernando and on the Algerian coast only; below 40° in most places, and below the freezing point over all the inland parts of the Continent and England; lowest of all 13° at Hermannstadt. 18° at Kiev and Kharkov; 16° at Helsingfors, 17° at Hangö, 26° at Paris. Rising decidedly in England during the day, falling fast again at night.

Wind still anticyclonic; E¹ over the northern parts of the Mediterranean, SE¹ over the Bay of Biscay and western part of our Islands, S¹ in Scotland, W¹ in Lapland and the north of Russia. A cyclonic N¹ wind prevalent in the south of Italy, Sicily and Malta. SE¹ wind increasing considerably in force at our western and northern stations later.

Barometer, highest 30.4 ins. to 30.6 ins., in an anticyclone covering nearly the whole of Northern, Eastern, and Central Europe and varying from 30.0 ins. to nearly 30.4 ins. in a "ridge" extending thence across the British Islands. Lowest 29.8 ins. and less in depression lying over the southern part of the Mediterranean, less than 30.0 ins. off the southwest of Ireland, and less than 30° over the White Sea and north of Russia. Falling decidedly in the west and southwest of our Islands later, and gradients for SE winds increasing over Western Europe generally.

EXPLANATION OF COLUMNS GIVEN ON PAGE 1.

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

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

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

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

DAILY WEATHER REPORT.

for Thursday, 13th February, 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 9.)	SHADE TEMP.		Amount of Rainfall.	
			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.						
Haparanda ...	30.54	15	Z	0	0	30.58	+ .18	27	27	+ .14	SW	4	S	*	?	?	0.04	
Hernösand ...	30.59	24	Z	0	0	30.58	+ .04	34	34	+ .26	SSW	2	O	*	?	?	-	
Stockholm ...	30.61	28	Z	0	0	30.58	- .02	30	29	+ .5	E	2	S	*	30	19	-	
Wisby ...	30.56	30	E	4	C	30.51	- .08	30	29	0	S	4	C	*	34	25	-	
Bodö ...	30.36	36	E	1	C	30.23	- .16	41	37	0	E	4	C	2	41	32	-	
Christiansund ...	30.28	36	SW	2	C	30.27	- .09	36	33	+ .7	ESE	1	C	3	36	?	-	
Skudesnaes ...	30.33	31	ESE	2	C	30.28	- .12	34	29	+ .2	ESE	4	C	4	34	25	-	
Christiania Fjord (Færd)	30.53	25	NNE	2	C	30.50	- .04	26	25	+ .6	NNE	3	O	1	?	19	-	
Skagen (The Scaw)	30.48	30	SE	4	C	30.42	- .09	30	?	+ .1	SE	3	O	3	32	27	-	
Fanö ...	30.27	30	ESE	6	C	30.19	- .20	29	28	- .1	E	6	C	*	32	28	-	
Sumburgh Head ...	30.03	41	SSE	5	O	30.00	- .13	40	40	- .2	SSE	7	O	7	42	38	-	
Stornoway ...	29.70	43	SE	5	C	29.75	- .10	39	38	- .3	SE	5	C	4	46	35	-	
Wick ...	29.91	40	S	8	O	29.90	- .15	41	39	0	S	8	O	7	42	35	-	
Nairn ...	29.44	38	ESE	4	C	29.84	- .14	39	37	+ .2	SE	2	O	2	44	31	-	
Aberdeen ...	29.97	38	SE	6	O	29.90	- .21	38	35	- .1	SE	6	Ogy	7	40	37	-	
Leith ...	29.90	36	E	1	C	29.82	- .22	37	34	+ .1	E	1	O	*	40	33	-	
Shields ...	29.93	37	SE	5	O	29.81	- .26	38	37	0	ESE	6	O	5	38	35	-	
Spurn Head ...	29.88	37	E	6	C	29.78	- .24	37	35	0	ESE	6	C	5	38	35	-	
York ...	29.91	36	E	3	O	29.79	- .30	34	32	0	E	1	O	*	39	32	-	
Loughborough ...	29.85	34	ESE	2	C	29.75	- .30	30	29	- .2	ESE	2	O	*	42	27	-	
Ardrossan ...	29.78	37	ESE	3	C	29.77	- .19	34	34	- .1	ESE	3	C	2	40	31	-	
Malin Head ...	29.53	35	SE	7	C	29.64	- .10	34	32	- .3	SE	5	C	3	40	33	-	
Mullaghmore ...	29.53	40	E	8	C	29.61	- .04	36	33	- .3	ESE	3	C	4	43	35	-	
Belmullet ...	29.45	39	SE	6	C	29.59	- .00	35	33	- .4	SE	3	S	*	45	34	0.37	
Donaghadee ...	29.72	40	SE	5	C	29.72	- .19	38	36	- .2	SE	6	C	4	44	36	-	
Liverpool (Bidston)	29.77	38	ESE	4	C	29.71	- .25	31	30	- .2	E	3	C	3	37	30	-	
Holyhead ...	29.68	37	SE	4	C	29.64	- .24	32	31	- .3	E	4	C	4	44	32	-	
Parsonstown ...	29.82	40	SE	3	C	29.57	- .12	35	33	- .5	SE	2	C	*	44	35	-	
Valencia ...	29.31	47	ESE	7	C	29.58	+ .11	43	41	- .5	NW	6	Og	5	50	41	0.68	
Roche's Point...	29.41	45	SE	8	C	29.45	- .15	42	42	- .5	E	4	C	5	47	40	0.55	
Pembroke (St. Ann's Hd.)	29.54	41	ESE	7	C	29.55	- .25	36	36	- .4	ESE	6	Cpm	5	42	35	-	
Soilly ...	29.40	45	ESE	8	C	29.44	- .23	44	43	- .3	NW	9	O	7	49	42	0.27	
Prawle Point ...	29.62	42	ESE	5	O	29.56	- .29	38	37	- .2	ESE	5	Og	3	43	37	-	
Jersey (St. Aubin's)	29.66	41	ESE	5	C	29.60	- .29	37	36	- .1	ESE	3	Ogpm	3	43	34	0.09	
Hurst Castle ...	29.72	40	ESE	5	C	29.64	- .31	38	35	- .1	ESE	4	Og	3	42	35	-	
Dungeness ...	29.82	37	SE	5	C	29.70	- .30	34	32	+ .1	SE	5	C	4	39	32	-	
London ...	29.83	34	ESE	3	C	29.70	- .32	32	30	+ .2	SE	2	O	*	43	30	-	
Oxford ...	29.78	33	E	3	C	29.70	- .32	27	26	- .2	E	2	C	*	39	26	-	
Cambridge ...	29.87	36	ESE	2	C	29.78	- .27	30	29	- .4	E	1	C	*	44	26	-	
Yarmouth ...	29.92	37	ESE	7	C	29.78	- .31	35	34	0	ESE	7	C	5	37	33	-	
Cuxhaven ...	30.25	29	ESE	6	C	30.13	- .23	27	26	- .4	ESE	6	C	*	31	26	-	
Berlin ...	30.34	27	ESE	4	C	30.23	- .20	23	22	- .1	ESE	4	C	*	32	23	-	
Wiesbaden ...	*	*	*	*	*	29.95	- .21	26	25	- .2	NE	2	C	*	36	25	-	
Munich ...	29.98	21	E	6	C	29.95	- .11	13	12	+ .1	E	4	C	*	30	12	-	
The Helder ...	30.02	31	ESE	3	C	29.91	- .30	28	27	- .3	ESE	2	C	3	34	28	-	
Brussels (9 a.m.)	*	*	*	*	*	29.81	- .29	28	27	+ .2	ESE	2	C	*	38	?	-	
Cape Gris Nez ...	?	31	ESE	3	C	?	?	27	27	0	ESE	3	C	2	37	27	-	
Paris ...	29.84	32	S	3	C	29.67	- .32	31	30	+ .6	SE	1	O	*	41	?	-	
Brest ...	?	42	SSE	8	C	?	?	46	43	+ .4	NW	7	O	6	46	41	0.16	
Lorient ...	29.53	41	SE	6	C	29.63	- .21	42	41	+ .8	W	4	O	5	46	34	0.55	
Rochefort ...	29.76	1	SE	4	C	29.72	- .23	47	45	+ .14	NW	7	C	?	48	32	0.16	
Belfort ...	29.85	30	S	1	C	29.85	- .02	30	22	+ .3	SSE	1	C	*	32	?	-	
Lyons ...	29.85	33	ESE	4	O	29.86	- .03	33	29	+ .5	S	4	C	*	33	?	0.12	
Nice ...	30.04	31	E	4	C	30.02	+ .01	31	?	+ .2	E	4	C	4	36	28	-	
Perpignan ...	29.88	43	NE	3	O	29.95	+ .07	38	36	0	W	3	C	*	53	36	0.04	
Biarritz ...	29.69	53	SW	4	C	29.89	+ .04	51	46	+ .5	W	8	C	7	57	43	0.12	
Corunna ...	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	-
Lisbon ...	30.01	52	N	3	O	30.07	+ .07	47	45	+ .2	N	1	C	?	57	43	0.35	

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, 13th February,

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:

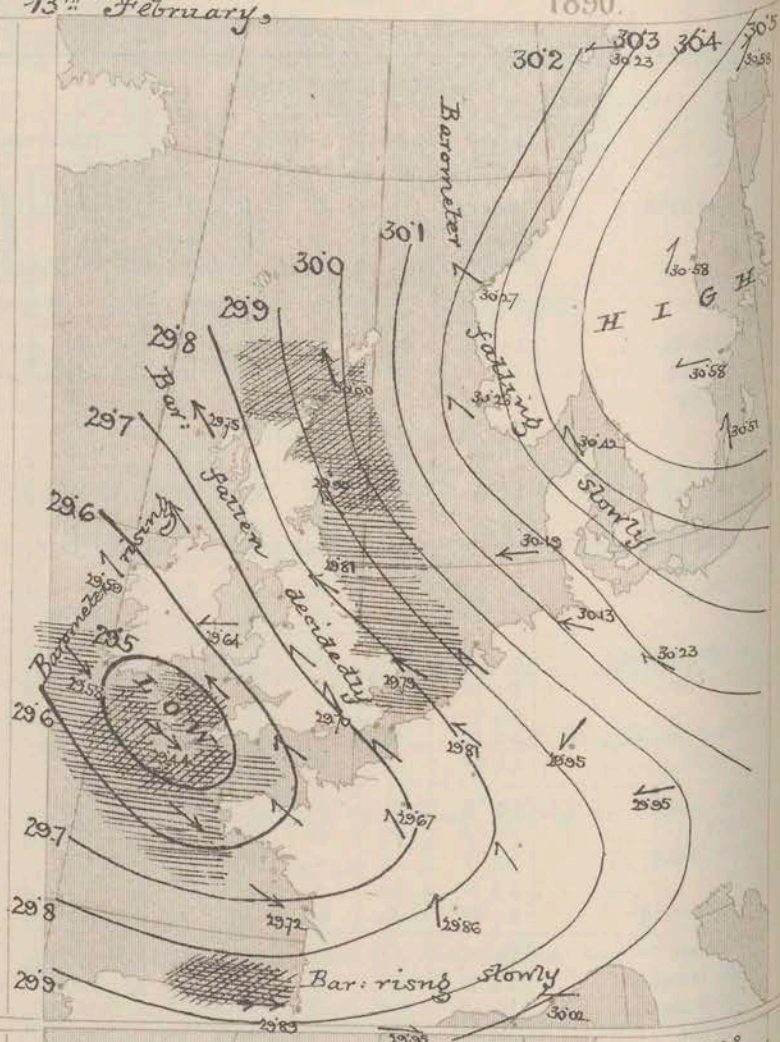
— = Rough. — = High.

MEAN HEIGHT OF THE BAROMETER

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

During the 15 Years: 1871—1885.

STATIONS.	MEAN READINGS.
Sumburgh Head	29.713
Stornoway	29.700
Wick	29.737
Nairn	29.747
Aberdeen	29.780
Leith	29.803
Shields	29.847
York	29.884
Loughborough	29.912
Ardrossan	29.805
Donaghadee	29.812
Holyhead	29.848
Liverpool	29.873
Parsonstown	29.834
Valencia	29.860
Roche's Point	29.850
Pembroke	29.875
Sailly	29.911
Jersey	29.975
Hurst Castle	29.944
Dover	29.957
LONDON	29.949
Oxford	29.938
Cambridge	29.935
Yarmouth	29.928



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

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

WEATHER—is shown by Letters of the Beaufort Scale.

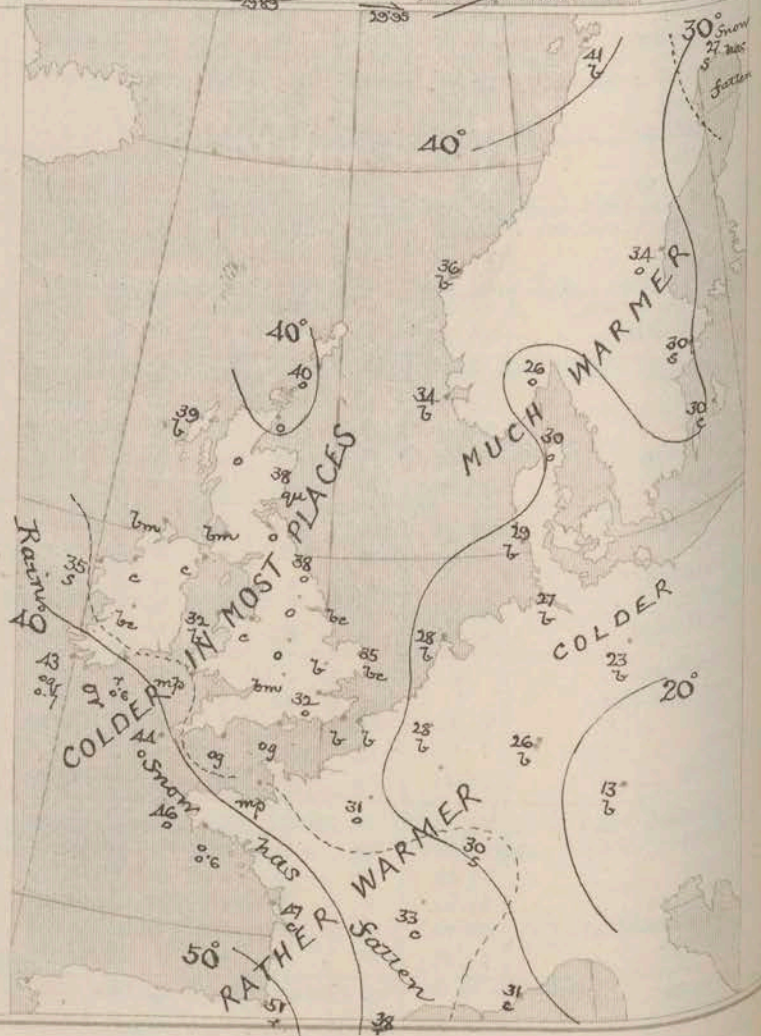
RAINFALL—A dotted line separates the districts in which rain has fallen from those where there has been none. Falls of 0.5 in. or more, are quoted in figures.

MEANS OF TEMPERATURE IN SHADE, AND RAINFALL.

(For the month of February.)

STATIONS.	TEMPERATURE.				RAINFALL (Inches.)
	Daily Max.	Daily Min.	at 8 a.m.		
			Dry.	Wet.	
Sumburgh Head.....	42.6	34.7	38.7	37.7	3.29
Stornoway.....	43.5	34.7	39.3	38.2	3.97
Wick.....	43.4	33.5	38.4	37.0	2.02
Nairn.....	43.4	33.8	37.4	35.7	1.51
Aberdeen.....	43.5	34.2	37.8	36.2	2.51
Leith.....	46.6	34.7	39.2	37.7	1.58
Shields.....	44.3	35.7	39.2	37.9	1.63
York.....	45.3	34.2	38.2	37.1	1.88
Loughborough.....	46.0	34.5	38.4	37.3	2.00
Ardrossan.....	45.0	36.7	40.0	38.6	3.47
Donaghadee.....	45.8	37.0	40.7	39.7	2.71
Holyhead.....	46.1	39.3	42.3	40.8	2.90
Liverpool.....	45.3	36.9	39.9	38.3	1.85
Parsonstown.....	47.4	36.1	40.1	38.8	2.45
Valencia.....	50.2	40.8	45.1	43.4	5.29
Roche's Point.....	48.9	40.0	43.6	42.2	4.86
Pembroke.....	46.2	40.3	43.1	41.9	3.20
Sailly.....	49.7	43.7	46.9	45.3	2.98
Jersey.....	47.6	40.1	43.2	42.0	2.72
Hurst Castle.....	46.5	37.9	41.3	40.4	2.63
Dover.....	45.4	37.4	40.3	39.1	2.12
LONDON.....	46.9	36.0	39.7	38.6	1.89
Oxford.....	45.9	35.9	38.8	37.7	2.06
Cambridge.....	46.4	33.9	38.3	37.3	1.60
Yarmouth.....	43.6	35.2	38.9	38.2	2.02

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



GENERAL SITUATION AT 8 A.M.

PRESSURE

Highest, { 30.3 in. to 30.6 in. in an anticyclone covering the north of Russia and Scandinavia.
 Lowest, { 30.0 in. and more, over Portugal and the southwestern part of Spain.
 29.5 in. and less, in a depression lying at the mouth of St. George's Channel.
 Gradients moderate, for NW winds over the Bay of Biscay and the southeast of our Islands, for SE winds over the North Sea, Denmark, Norway.
 Barometer rising decidedly in extreme southwest and west, falling in northeast.

TEMPERATURE

Highest, 51° at Biarritz, 47° at Lisbon and Rochefort, 46° at Brest, 44° at Scilly, 43° at Valence and 41° at Bodö.
 Lowest, 13° at Munich, 13° at Berlin, 16° at Amsterdam, 17° at Copenhagen and 18° at the Helles and Bosphorus, 31° at Paris and 32° in London.
 It has risen decidedly over France, especially at the western stations - rapidly in Sweden.

WIND

SE over the North Sea and greater part of our Islands, fresh to a gale in force.
 NW, strong to a strong gale at our extreme southwestern stations and in the west of France.
 E in Norway and Denmark, SW in the north of Sweden.
 Very variable in the southern parts of France.

WEATHER

More cloudy than of late, though still clear in several localities.
 Squally and threatening in the east of Scotland, squally and raining at several southwestern stations.
 Rain and snow have fallen in several parts of Ireland and France.

SEA

High off the north and east coasts of Scotland and at Scilly and Biarritz, rather rough on exposed parts of most of our coast.

PROBABLE CHANGES IN SYSTEM NOW PREVALENT

The present movement of the depression in the southwest is somewhat uncertain: weather seems likely to become much less fair than of late.

FORECASTS

For the 24 hours ending at NOON on 14TH FEB^R 1890.

DISTRICTS.

FORECASTS.

0	SCOTLAND NORTH	SE ^W winds, strong, a gale at times; squally, some showers.
1	SCOTLAND EAST	
2	ENGLAND N.E.	
3	ENGLAND EAST	SE ^W to E ^W winds; fair as a whole. Very cold tonight
4	MIDLAND COUNTIES	
5	ENGLAND SOUTH	

DISTRICTS.

FORECASTS

6	SCOTLAND WEST	SE ^W winds, moderate; fair, cold.
7	ENGLAND N.W.	
8	ENGLAND S.W.	Conditions too uncertain to admit of forecast.
9	IRELAND NORTH	Same as N°6 and 7.
0	IRELAND SOUTH	Same as N°8

WARNINGS

The signals are up except in district 6.

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

YESTERDAY'S 2 P.M. REPORTS.

	BAR:	THER:		WIND		WEA.	SEA		BAR:	THER:		WIND		WEA.	SEA
		D.	W.	D.	F.					D.	W.	D.	F.		
Skudesnaes ...	30.37	34	31	SE	2	6	3		Holyhead ...	29.76	42	37	SE	3	6
Sumburgh Head ...	30.06	41	40	SE	5	0	6		Valencia ...	29.33	50	48	ESE	8	6
Stornoway ...	29.75	46	44	SE	6	6	5		Scilly ...	29.47	48	46	ESE	8	6
Aberdeen ...	30.02	39	35	SE	6	0	6		Jersey ...	29.75	43	38	SE	4	6
Shields ...	29.96	38	35	SE	4	0	4		Dungeness ...	29.87	39	36	SE	5	6
Ardrossan ...	29.84	40	38	WSE	3	6	2		London ...	29.87	40	36	ESE	3	6
Malin Head ...	29.67	39	36	SE	5	0	3		Yarmouth ...	29.98	37	35	ESE	6	6
Mullaghmore ...	29.66	43	39	ESE	8	6	6		Rochefort ...	29.86	44	39	ESE	4	6
Belmullet ...	29.49	45	43	SE	6	0	*								

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

Weather dull in the northeast of Great Britain, as well as over Central Russia and the southern parts of France and Austria; snow falling at Lyons, Toulon, Marseilles and Turin. Fine in nearly all other localities, but foggy over the Gulf of Finland, and also the Christiania Fjord.

Temperature highest 45° to 50° or a little more on the coasts of the Iberian Peninsula and the southern shores of the Mediterranean (Cannes and Algiers 53°, Oran 50°, Barcelona and Malta 49°) — Lowest 5° at Hermannstadt, 6° at Hernös and 7° at Kuopio, 10° at Nicosia, at Munich, and 13° at Haparanda; below the freezing point at nearly all the Continental stations, as well as over Central England.

Winds SE in our Islands and their immediate neighbourhood; strong in force in many places, with a moderate gale on the extreme south-western, western, and northern coasts. Light from between E. and N. over the greater part of southern and central Europe; on the Algerian coast, calm or variable over the northern parts of Scandinavia and Russia.

Barometer highest, 30.4 ins. and upwards, in a large anticyclone lying over Scandinavia, Russia and the Baltic; high, and upwards, in another system lying over the southern part of the Iberian Peninsula. Lowest, 29.5 ins. and less, in a depression lying southward of Ireland; gradient rather steep over the western part of the United Kingdom. Barometer falling at all but the Russian stations. Depression in southwest subsequently spreading eastwards, and barometer falling decidedly in 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.

WEATHER CHARTS

for 8 a.m. on

Friday, 14th February,

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:

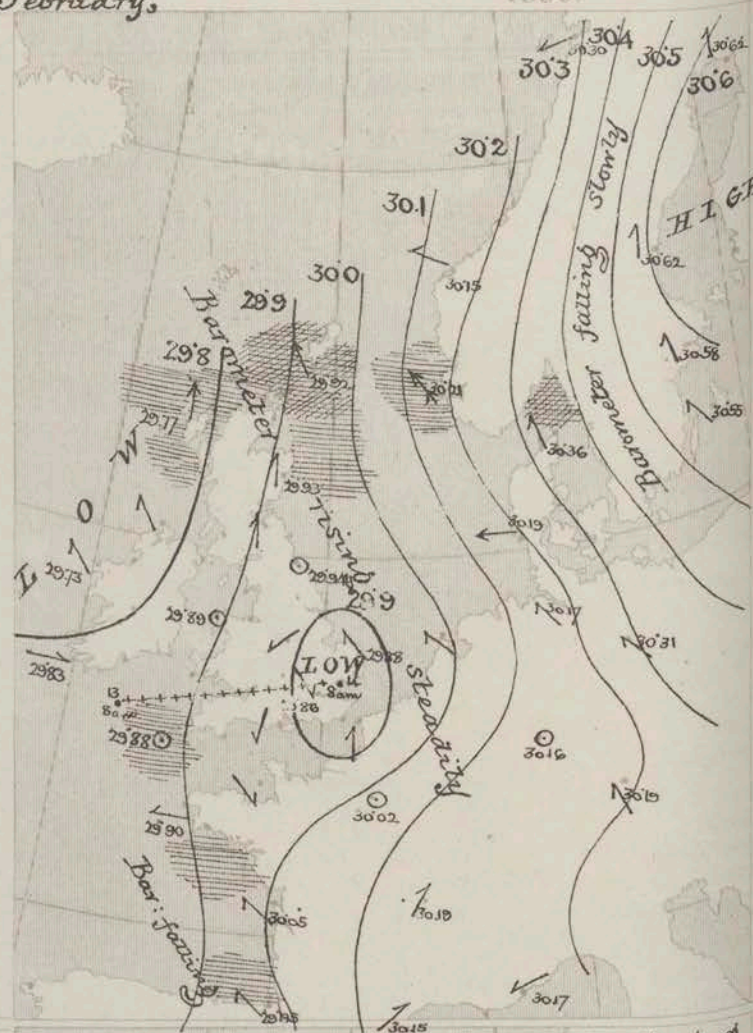
— = Rough. — = High.

MEAN HEIGHT OF THE BAROMETER

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

During the 15 Years: 1871—1885.

STATIONS.	MEAN READINGS.
Sumburgh Head	29.718
Stornoway	29.700
Wick	29.737
Nairn	29.747
Aberdeen	29.780
Leith	29.803
Shields	29.847
York	29.884
Loughborough	29.912
Ardrossan	29.805
Donaghadee	29.812
Holyhead	29.848
Liverpool	29.873
Parsonstown	29.834
Valencia	29.850
Roches Point	29.850
Pembroke	29.876
Silly	29.911
Jersey	29.975
Hurst Castle	29.944
Dover	29.967
LONDON	29.949
Oxford	29.938
Cambridge	29.935
Yarmouth	29.928



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

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

WEATHER is shown by Letters of the Beaufort Scale.

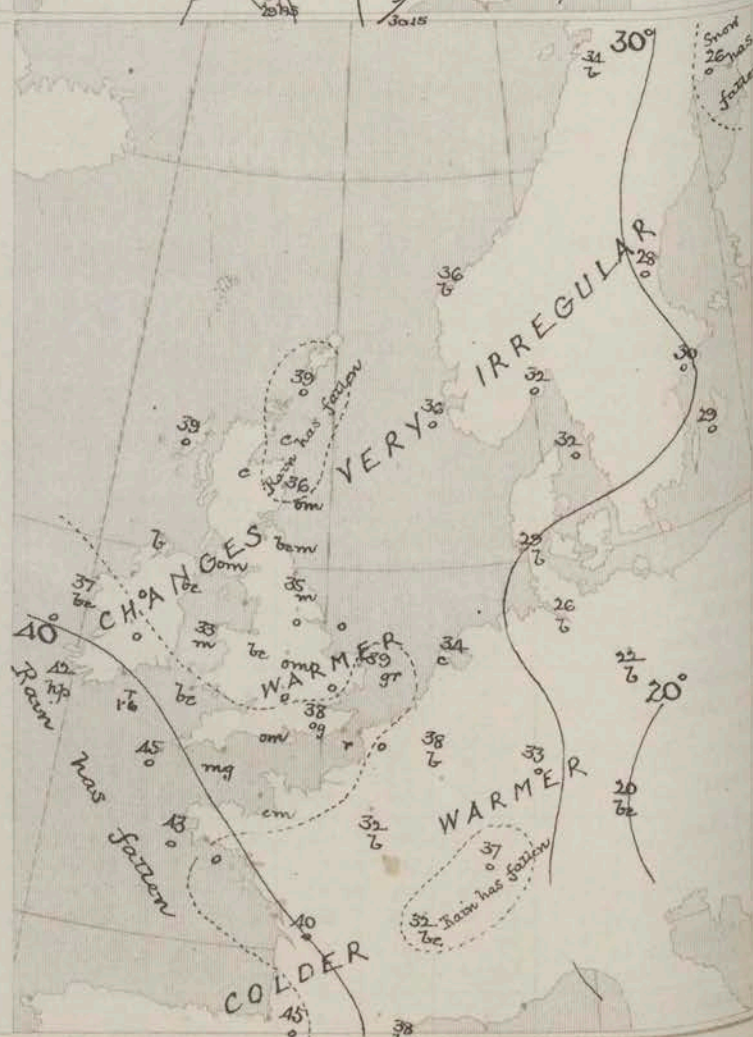
RAINFALL—A dotted line separates the districts in which rain has fallen from those where there has been none. Falls of 0.5 in. or more, are quoted in figures.

MEANS OF TEMPERATURE IN SHADE, AND RAINFALL.

(For the month of February.)

STATIONS.	TEMPERATURE.				RAINFALL (Inches.)
	Daily Max.	Daily Min.	at 8 a.m. Avg.	Wet.	
Sumburgh Head	42.6	34.7	38.7	37.7	3.29
Stornoway	43.5	34.7	39.3	38.2	3.97
Wick	43.4	33.5	38.4	37.0	2.02
Nairn	43.4	33.8	37.4	35.7	1.51
Aberdeen	43.5	34.2	37.8	36.2	2.51
Leith	46.6	34.7	39.2	37.7	1.58
Shields	44.3	35.7	39.2	37.9	1.63
York	43.3	34.2	38.2	37.1	1.88
Loughborough	49.0	34.5	38.4	37.3	2.00
Ardrossan	45.0	36.7	40.0	38.6	3.47
Donaghadee	45.8	37.0	40.7	39.7	2.71
Holyhead	46.1	39.3	42.3	40.8	2.90
Liverpool	45.3	36.9	39.9	38.3	1.85
Parsonstown	47.4	36.1	40.1	38.8	2.45
Valencia	50.2	40.8	45.1	43.4	5.29
Roches Point	48.9	40.0	43.6	42.2	4.86
Pembroke	46.2	40.3	43.1	41.9	3.20
Silly	49.7	43.7	46.9	45.3	2.98
Jersey	47.6	40.1	43.2	42.0	2.72
Hurst Castle	46.5	37.9	41.3	40.4	2.63
Dover	45.4	37.4	40.3	39.1	2.12
LONDON	46.9	36.0	39.7	38.6	1.89
Oxford	45.9	35.9	38.8	37.7	2.06
Cambridge	46.4	33.9	38.3	37.3	1.60
Yarmouth	43.5	35.2	38.9	38.2	2.02

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 30.6 in: and more, in a depression lying over the Baltic and Northern Europe, and about 30.2 in: over the north of Italy.
Lowest, about 29.7 in: off our extreme western coast; 29.3 in: and less, over the Eastern Counties of England.
Gradients slight and variable except in the far north, where they are moderate for S. winds.
Barometer falling again over Spain and the southwest of France, unsteady in the south of Ireland, rising over England.

TEMPERATURE

Highest, 54° at Fife, 48° at Biarritz and Sicily, 43° at Bungeness, 42° at Valencia and Rochester.
Lowest, 20° at Munich, 22° at Berlin, 26° at Copenhagen and Haparanda, and 23° at Genoa.
 At Paris the reading is 32° and in London 38°.

WIND

Still strong from S and SE. at our most northern stations, and lessening from SE. at Skudenes; over Ireland and England it has become light and very variable, while in the west of France it is light from SE. and E.
 At Babbacombe the sky is covered with Cirrus moving very quickly from WSW.

WEATHER

Still fine and bright over Central France and North Germany, much more cloudy than of late elsewhere, with heavy rain and some hail in the south of Ireland.
 Rain has fallen at all our southwestern and southern stations, and slight showers in some parts of Scotland.

SEA

Rough in the far north (high at some stations) and also over the Bay of Biscay moderate to smooth elsewhere. At Dunjness it is moderate and at Holyhead smooth.

PROBABLE CHANGES IN SYSTEM NOW PREVALENT

Although the wind is at present very quiet there are some indications that a fresh disturbance is approaching our southwestern coasts from the Atlantic. The conditions are therefore far from being settled.

FORECASTS

For the 24 hours ending at NOON on 15th FEB. 1890.

DISTRICTS.

FORECASTS.

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

SE^{ty} and S^{ty} winds, increasing in force again; fair to rainy and unsettled.

Wind shifting to SE. or S. again, light and fair at first, less settled later.

DISTRICTS.

FORECASTS

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

Same as Nos 0 to 2.

SE^{ty} or S^{ty} winds, increasing with squally, rainy weather.

WARNINGS

None Issued at Present.

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

YESTERDAY'S 2 P.M. REPORTS.

	BAR:	THER:		WIND		WEA.	SEA		BAR:	THER:		WIND		WEA.	SEA
		D.	W.	D.	F.					D.	W.	D.	F.		
Skudesnaes ...									Holyhead ...	29.68	39	34	NNE	1	5
Sumburgh Head ...	29.98	40	37	SE	7	0	7		Valencia ...	29.71	45	43	NW	5	8
Stornoway ...	29.74	41	40	SE	6	c	5		Scilly ...	29.62	45	43	WNW	10	3
Aberdeen ...	29.87	39	35	SE	5	c	7		Jersey ...	29.66	47	45	W	4	4
Shields ...	29.78	39	35	ESE	6	c	5		Dungeness ...	29.71	39	37	S	4	8
Ardrossan ...	29.75	38	36	ESE	3	0	2		London ...	29.72	40	36	ESE	4	4
Malin Head ...	29.66	38	34	SE	L	c	2		Yarmouth ...	29.76	37	35	SE	4	4
Mullaghmore ...	29.64	40	35	SE	L	c	3		Rocheport ...	29.93	49	46	WSW	6	?
Belmullet ...	29.63	35	34	SE	3	0	*								

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

Weather still fine and bright over Norway, Denmark, Germany, many parts of England, and Spain; cloudy or overcast elsewhere, and less fair than of late in many places. Heavy rain falling at Rocher Point, showers at several other of our southwestern stations and in the southwest of France, snow at Belmullet, Haparanda, and even at Goulon. Rain at all our southwestern and southern stations later, but heavy at Rocher Point only; slight hail showers at some Scotch stations.

Temperature risen rapidly over Sweden and Finland, less decidedly in France and Spain. Highest 50° and more at Malta, Algiers and Barcelona only, 48° at Catania, 47° at Lisbon and Rochefort, 46° at Brest, 44° at Scilly, and 43° at Valencia; below the freezing point all over Russia, Germany, Central France and our south midland counties, lowest being (1.) 11° at Kuopio and Moscow, 18° at Nicolaioff, 19° at Archangel, Kharkov, Kiev, Odessa, and Cracow; (2.) 13° at Munich, 20° at Vienna and Prague, 23° at Berlin and 26° at Nisabaden.

Wind W³ over Spain, NW³ over the Bay of Biscay, at Scilly and Valencia, and blowing a gale in most places; still E⁴ to SE⁴ over Germany, the North Sea, Great Britain, and the north of Ireland — strong to agale — S³ in Sweden, NW³ (light) over Russia. Moderate to agale from E. in the south of France, variable elsewhere. SE⁴ wind decreasing in force later on, but WNW³ gale continuing at Scilly till 8 p.m.

Barometer, highest, 30.4 ins. to 30.7 ins. in an anticyclone covering Sweden, the Baltic and northern half of Russia, 29.9 ins. to 30.1 ins. over Spain. Lowest (apparently) off our extreme western coast, but 29.5 ins. and less, in a local depression at mouth of St. George's Channel, and 29.9 ins. in a shallow system over the Mediterranean. Depression off southwest coast moving eastward, later, and barometer rising fast.

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, 15th February, 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.	Dirac.	Force. (0 to 12.)		Reading at 32° F. and Sea Level.	Difference from 8 a.m. yesterday.	Dry.	Wet.	Difference from 8 a.m. yesterday.	Dirac.	Force. (0 to 12.)			Max.	Min.		
SCANDINAVIA.																		
Haparanda ...	30.58	13	S	4	0	30.48	- .14	19	19	- .7	R	4	0	*	30	10	0.04	
Hernösand ...	30.56	31	S	4	0	30.49	- .13	29	27	+ .1	SSW	4	0	*	24	23	-	
Stockholm ...	30.58	30	SE	2	0	30.51	- .07	30	28	0	SE	2	0	*	34	28	-	
Wisby ...	30.56	30	SW	3	0	30.47	- .08	28	27	- .1	SSW	4	0	*	30	27	-	
Bodö ...	30.25	32	ESE	2	6	30.29	- .01	30	25	- .4	ESE	2	0	2	37	25	-	
SCANDINAVIA.																		
Christiansund	30.25	33	ESE	4	6	30.20	+ .05	34	30	- .2	ESE	4	0	3	41	30	-	
Skudesnaes ...	30.21	37	SE	8	0	30.19	- .02	35	31	- .1	ESE	4	0	4	37	32	-	
Christiania Fjord (Færder)	30.44	31	SE	3	0	30.35	- .09	31	30	- .1	ESE	3	0	1	32	30	-	
Skagen (The Scaw)	30.38	31	SE	3	0	30.28	- .08	31	30	- .1	SE	3	0	3	32	30	-	
Fanö ...	30.21	30	SE	5	6	30.12	- .09	28	27	- .1	ESE	6	0	*	?	28	-	
SCANDINAVIA.																		
Sumburgh Head	29.95	38	SSW	3	0	29.95	+ .03	39	38	0	Z	0	0	6	41	34	0.24	
Stornoway ...	29.83	38	SW	3	6c	29.84	+ .10	30	30	- .9	NE	2	6c	3	42	27	-	
Wick ...	29.90	38	S	5	6	29.91	+ .08	34	32	- .5	W	2	0	7	42	32	-	
Nairn ...	29.90	30	Z	0	c	29.89	+ .03	22	22	- .9	Z	0	6c	6	42	21	-	
Aberdeen ...	29.95	36	SSW	1	c	29.93	- .00	32	31	- .4	WNW	1	0 pm	4	41	31	0.01	
SCANDINAVIA.																		
Leith ...	29.92	37	ESE	1	6	29.88	- .02	34	33	0	W	1	6	*	41	27	-	
Shields ...	29.92	39	ESE	2	6c	29.86	- .14	41	40	+ .6	ESE	3	6	4	42	35	0.08	
Spurn Head ...	29.88	41	SE	2	0	29.73	- .17	41	39	+ .1	E	4	6	3	44	39	0.01	
York ...	29.92	41	NE	1	0	29.78	- .15	40	39	+ .8	NE	1	6	*	43	32	0.04	
Loughborough	29.90	39	N	1	0	29.71	- .20	38	37	+ .5	E	2	6	*	41	33	0.13	
BRITISH ISLANDS.																		
Ardrossan	29.88	36	NE	1	0	29.85	- .02	32	32	- .2	NE	3	6	2	38	31	-	
Malin Head ...	29.77	36	SE	4	0	29.80	+ .03	34	33	0	S	3	6	1	40	32	0.03	
Mullaghmore ...	29.77	39	S	2	6c	29.79	+ .01	34	33	- .4	E	4	6c	3	43	33	0.01	
Belmullet ...	29.74	41	W	3	6	29.78	+ .05	36	35	- .1	E	1	6	*	43	33	0.23	
Donaghadee ...	29.85	42	S	2	c	29.83	- .03	39	38	+ .7	ESE	2	0	0	42	32	0.01	
BRITISH ISLANDS.																		
Liverpool (Bidston)	29.89	36	ESE	1	6	29.73	- .19	37	36	+ .6	NNE	2	0	3	40	31	-	
Holyhead ...	29.86	39	SSW	1	0	29.77	- .12	40	39	+ .7	NE	3	0 gm	2	44	33	-	
Parsonstown ...	29.82	38	Z	0	6	29.83	+ .03	28	28	- .8	Z	0	6	*	42	28	0.07	
Valencia ...	29.88	42	WNW	3	6c	29.85	+ .02	42	38	0	WNW	2	6	2	48	37	0.06	
Roche's Point...	29.84	42	NW	4	6	29.83	+ .02	35	33	- .7	N	2	6	3	44	33	0.15	
BRITISH ISLANDS.																		
Pembroke (St. Ann's Hd.)	29.84	39	E	3	m	29.74	- .17	39	38	+ .5	NNE	2	6m	1	42	33	-	
Scilly ...	29.79	45	NE	3	0	29.76	- .12	44	42	- .1	WNW	7	6	5	47	42	-	
Prawle Point ...	29.82	37	ESE	3	0	29.63	- .30	36	36	+ .3	WNW	4	0 gm	2	39	33	0.14	
Jersey (St. Aubin's)	29.81	43	E	3	6	29.67	- .15	40	39	+ .2	NW	6	6m	5	45	37	1.17	
Hurst Castle ...	29.91	38	NNE	2	0	29.80	- .11	36	35	- .2	NE	6	6m	4	41	34	0.50	
BRITISH ISLANDS.																		
Dungeness	29.86	42	W	3	m	29.81	- .05	41	40	- .2	SE	6	6	5	43	37	0.43	
London ...	29.88	41	NE	1	gm	29.83	- .05	36	35	- .2	NE	4	6	*	41	34	0.54	
Oxford ...	29.87	38	Z	0	0	29.60	- .31	35	35	+ .2	N	4	6	*	42	33	0.29	
Cambridge ...	29.87	40	NE	1	0	29.62	- .28	37	36	+ .2	NE	3	6	*	41	33	0.23	
Yarmouth ...	29.90	40	SSW	4	c	29.70	- .18	38	37	- .1	E	6	6	5	41	37	0.12	
GERMANY & HOLLAND.																		
Cuxhaven	30.20	30	ESE	4	6	30.13	- .07	27	26	+ .1	ESE	5	6	*	31	?	-	
Berlin ...	30.30	30	ESE	4	6	30.22	- .09	22	21	0	SE	4	6c	*	36	21	-	
Wiesbaden ...	*	*	*	*	*	29.96	- .20	32	29	- .1	NE	3	6	*	39	30	-	
Munich ...	30.13	26	E	1	6	29.99	- .20	18	18	- .2	SE	3	6	*	37	16	-	
The Helder	30.01	36	SE	1	6	29.84	- .16	34	33	0	E	2	6	3	41	34	-	
FRANCE AND BELGIUM.																		
Brussels (9 a.m.)	*	*	*	*	*	29.71	- .29	38	36	0	ESE	1	0	*	46	36	0.04	
Cape Gris Nez	?	39	ESE	3	0	?	?	38	36	0	SE	5	0	3	41	37	0.28	
Paris ...	29.94	44	SE	2	6c	29.60	- .42	47	42	+ .15	SSW	4	0	*	48	?	-	
Brest ...	29.63	40	E	5	6	29.75	- .15	44	42	+ .1	WNW	7	0	7	52	41	1.10	
Lorient ...	29.84	41	E	7	6	29.67	- .26	42	40	0	WNW	6	0	5	46	36	0.91	
FRANCE AND BELGIUM.																		
Rocheport	29.75	49	ESE	5	0	29.82	- .23	46	44	+ .6	WNW	7	6	?	50	39	0.04	
Belfort ...	30.00	37	N	1	6	29.85	- .25	38	31	+ .1	SW	1	6	*	43	30	-	
Lyons ...	30.02	42	S	3	6	29.86	- .33	44	41	+ .12	S	5	6	*	48	?	-	
Nice ...	30.16	39	SSW	2	6	30.09	- .08	37	32	+ .1	NE	4	0	1	45	32	-	
Perpignan ...	29.95	45	NE	2	6	29.93	- .22	48	44	+ .10	NW	3	0	*	54	?	-	
Biarritz ...	29.73	61	ESE	5	0	29.95	- .00	48	46	+ .3	W	6	6	5	64	45	0.20	
PORTUGAL.																		
Corunna ...	*	*	*	*	*	30.13	+ .13	46	44	- .8	N	4	6	4	59	46	0.08	
Lisbon ...	29.99	51	WNW	5	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 *Saturday 15th February* 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:

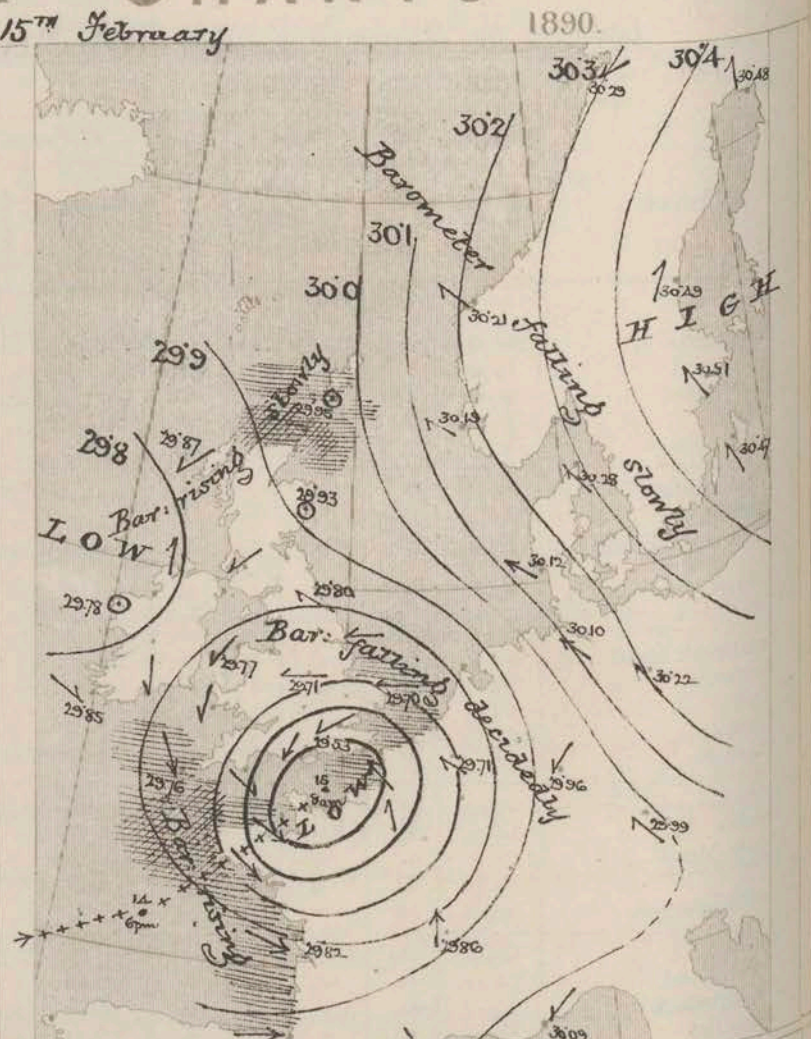
— = Rough. — = High.

MEAN HEIGHT OF THE BAROMETER

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

During the 15 Years: 1871—1885.

STATIONS.	MEAN READINGS.
	<i>ins.</i>
Sumburgh Head	29.713
Stornoway	29.700
Wick	29.737
Nairn	29.747
Aberdeen	29.780
Leith	29.803
Shields	29.847
York	29.884
Loughborough	29.912
Ardrossan	29.805
Donaghadee	29.812
Holyhead	29.848
Liverpool	29.873
Parsonstown	29.834
Valencia	29.850
Roche's Point	29.850
Pembroke	29.875
Scilly	29.911
Jersey	29.975
Hurst Castle	29.944
Dover	29.957
LONDON	29.949
Oxford	29.938
Cambridge	29.935
Yarmouth	29.928



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

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

WEATHER—is shown by Letters of the Beaufort Scale.

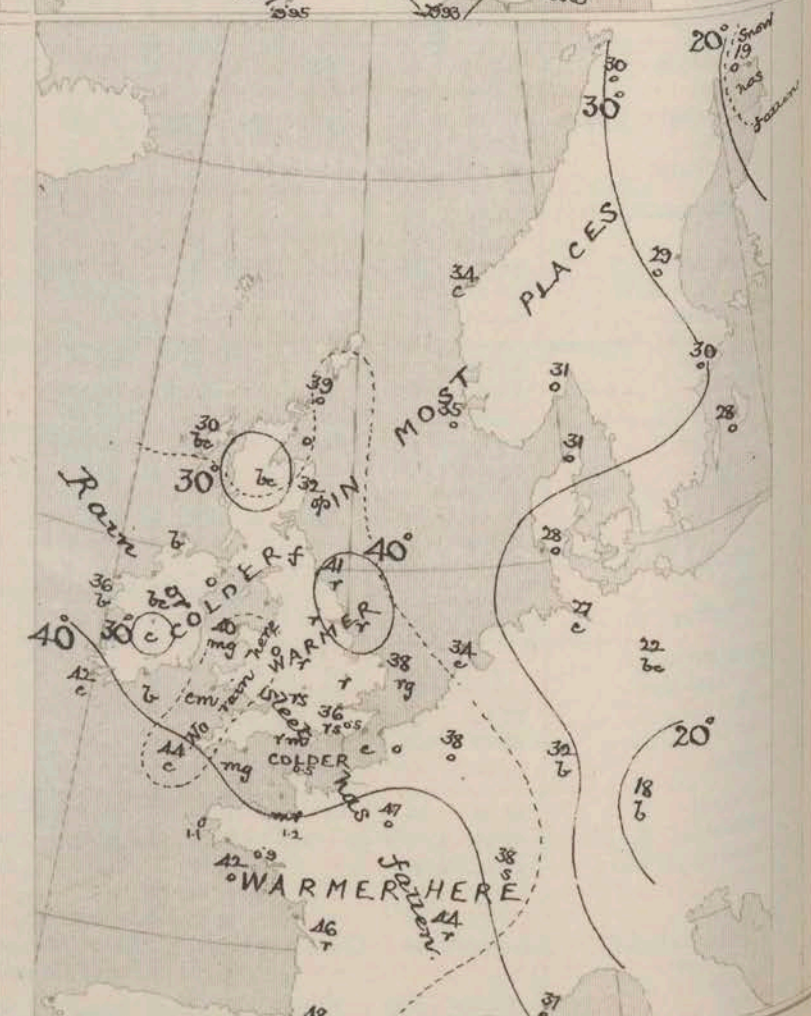
RAINFALL—A dotted line separates the districts in which rain has fallen from those where there has been none. Falls of 0.5 in. or more, are quoted in figures.

MEANS OF TEMPERATURE IN SHADE, AND RAINFALL.

(For the month of February.)

STATIONS.	TEMPERATURE.				RAINFALL (Inches.)
	Daily Max.	Daily Min.	at 8 a.m.		
			Dry.	Wet.	
Sumburgh Head.....	42.6	34.7	38.7	37.7	3.29
Stornoway	43.6	34.7	39.3	38.2	3.97
Wick	43.4	33.5	38.4	37.0	2.02
Nairn	43.4	33.8	37.4	35.7	1.51
Aberdeen	43.6	34.2	37.8	36.2	2.51
Leith	46.6	34.7	39.2	37.7	1.58
Shields	44.3	35.7	39.2	37.9	1.63
York	45.3	34.2	38.2	37.1	1.88
Loughborough	46.0	34.5	38.4	37.3	2.00
Ardrossan	45.0	30.7	40.0	38.6	3.47
Donaghadee	45.8	37.0	40.7	39.7	2.71
Holyhead	46.1	39.3	42.3	40.8	2.90
Liverpool	45.3	36.9	39.9	38.3	1.85
Parsonstown	47.4	36.1	40.1	38.8	2.45
Valencia	50.2	40.8	45.1	43.4	5.29
Roche's Point	48.9	40.0	43.6	42.2	4.86
Pembroke.....	46.2	40.3	43.1	41.9	3.29
Scilly	49.7	43.7	46.9	45.3	2.98
Jersey	47.0	40.1	43.2	42.0	2.72
Hurst Castle	46.5	37.9	41.3	40.4	2.63
Dover	45.4	37.4	40.3	39.1	2.12
LONDON	46.9	36.0	39.7	38.6	1.89
Oxford	45.9	35.0	38.8	37.7	2.06
Cambridge	46.4	33.0	38.3	37.3	1.60
Yarmouth	43.5	35.2	38.9	38.2	2.02

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



GENERAL SITUATION AT 8 A.M.

PRESSURE

Highest, 30.2 in: to 30.5 in: over Norway and Sweden, and apparently still higher over Finland and the Baltic Provinces.
Lowest, 29.8 in: and less, off the west of Ireland; 29.5 in: and less, in a depression over the English Channel.

Gradients rather steep and variable in the south, moderate in the east, slight in the north.

Barometer falling steadily on our south and east coasts, rising again over France. In NW. Ireland and W. Scotland it is rising very slowly.

TEMPERATURE

Highest, 48° at Biarritz, 46° at Dublin and Rochefort, 44° at Seilly, 42° at Palermo.

Lowest, 18° at Munich, 19° at Kapaaranda, 22° at Berlin and Nairn, 27° at Kuskasseu, 28° at Bournemouth, 29° at Harrogate, 31° at Newcastle and Aberdeen, 35° at Oxford, 36° in London.

It has changed very fitfully at the French stations since yesterday.

WIND

Very light and variable in Ireland and Scotland, NE^{ly} to NW^{ly} over England (strong at the southern stations.)

NW^{ly}, strong to gale in the west and northwest of France.

SE^{ly} in the Straits of Dover, SE^{ly} to E^{ly} over the North Sea.

WEATHER

Fine in Ireland, the west and north of Scotland and in Germany, rainy over England and the Channel, with wet snow at times over the southern districts.

The amount of rainfall measured this morning, 1.2 in: at Jersey, 0.9 in: at Frint, and 0.5 in: at Dungeness and in London.

SEA

Rough in the Channel and on the east coast, moderate in the west, but a high ground swell was rolling in at Wick.

PROBABLE CHANGES IN SYSTEM NOW PREVALENT

As the depression moves northwards the wind is likely to back to the northward over the south of England, and subsequently fall light, with dry and very cold weather.

FORECASTS

For the 24 hours ending at NOON on 16th FEB^y 1890.

DISTRICTS.

FORECASTS.

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

Varying and NE^{ly} to NW^{ly} winds;
rain and wet snow.

NE^{ly} to NW^{ly} winds, strong to moderate;
rain and wet snow, improving later.
Very cold in morning.

DISTRICTS.

FORECASTS

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

Variable light winds; fair as a whole. Cold.

NW^{ly} to W^{ly} winds, falling light, cold.

Varying airs; fair cold, foggy later.

WARNINGS

NONE ISSUED.

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

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

YESTERDAY'S 2 P.M. REPORTS.

	BAR:	THER:		WIND				SEA		BAR:	THER:		WIND				SEA
		D.	W.	D.	F.	WEA.					D.	W.	D.	F.	WEA.		
Skudesnaes ...	30.23	36	32	SE	8	0	5			Holyhead ...	29.88	42	38	SE	1	cm	1
Sumburgh Head ...	29.92	40	39	SE	5	0	7			Valencia ...	29.85	45	43	W	3	c ph	4
Stornoway ...	29.80	42	41	W	5	c	4			Scilly ...	29.83	47	44	SE	1	0	5
Aberdeen ...	29.93	41	36	SE	2	bc	5			Jersey ...	29.88	44	42	NE	2	0	2
Shields ...	29.91	41	37	SE	2	bm	4			Dungeness ...	29.84	41	41	W	5	f	4
Ardrossan ...	29.89	38	37	NE	2	0	1			London ...	29.88	41	40	W	1	off	8
Malin Head ...	29.78	37	37	SE	3	0	2			Yarmouth ...	29.89	41	40	SE	4	cm	4
Mullaghmore ...	29.75	40	39	SE	4	of	2			Rocheport ...	29.90	47	45	SE	5	0	?
Belmullet ...	29.73	40	39	SW	4	0	*										

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

Weather fine and bright over ^{Italy, the} northern parts of France, the greater part of Germany, and the northern half of Norway. Cloudy or overcast in nearly all other places, unsettled in the southwest, south, and southeast of our Islands, with hail and rain in the south of Ireland and slight rain in the southeast of England. Rain settling in over France later, solar halos seen in several places and weather unsettled in the south generally.

Temperature changing somewhat fitfully over Western Europe; morning readings exceeding 50° on the Algerian and Spanish coasts only, and succeeding 40° in the south of Italy, west of France and southwest of the British Isles, below the freezing point over northern, eastern and central Europe, and as low as 5° at Archangel, 8° at Kuspio, 12° at Uleaborg, 15° at Nicolaieff, 17° at Hermannstadt and Cracow, 19° at Lemberg and Breslau, 20° at Vienna and Munich. Rising fast over France later.

Wind very variable, SE over Scandinavia, the Baltic, and eastern shores of the North Sea, as well as in the north of Ireland, S in Scotland; very light and variable over England, France, and the southeast of Ireland. S winds, belonging to a new system settling in at Lisbon and Corunna, and spreading to France later, light E breeze appearing over the Channel.

Barometer highest, 30.3 in.: to 30.8 in.: in a large anticyclone covering the northern half of Russia, Scandinavia, eastern Germany and Austria-Hungary. Lowest, 29.8 in.: and less, off the northwest of Ireland and northwest of Spain, and about 30.0 in.: in the extreme south of Italy. Well formed, but not deep, depression, advancing northward over the Bay of Biscay later, and increasing in intensity.

EXPLANATION OF COLUMNS GIVEN ON PAGE 1.

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

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

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

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DAILY WEATHER REPORT.

for

Sunday 16th FEB^y

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 1.)	SHADE TEMP.		Amount of Rainfall.	
			Dirce.	Force. (0 to 12.)		Reading at 32° F. and Sea Level.	Difference from 8 a.m. yesterday.	Dry.	Wet.	Difference from 8 a.m. yesterday.	Dirce.	Force. (0 to 12.)			Max.	Min.		
SCANDINAVIA.																		
Haparanda ...	30.46	22	S	4	S	30.36	— .12	26	26	+ .7	S	2	0	*	?	10	0.04	
Hernösand ...	30.39	30	SSW	2	O	30.36	— .13	28	28	— .1	S	2	0	*	34	27	—	
Stockholm ...	30.3	29	SE	2	O	30.33	— .18	30	28	0	SSE	2	0	*	32	27	—	
Wisby ...	30.36	30	SSE	4	T	30.28	— .19	30	28	+ .2	SE	6	0	*	30	25	—	
Bodö ...	30.25	31	E	2	O	30.31	+ .02	27	24	— .3	E	2	S	1	32	27	—	
Christiansund	30.14	33	ESE	3	b	30.10	— .10	29	26	— .5	ESE	3	b	2	37	28	—	
Skudesnaes ...	30.08	36	ESE	4	b	29.99	— .20	35	29	0	ESE	8	C	5	41	34	—	
Christiania Fjord (Færd)	30.24	31	NNE	3	O	30.21	— .14	30	28	— .1	NE	4	0	1	31	28	—	
Skagen (The Scaw)	30.16	30	SE	4	O	30.14	— .14	31	30	0	SE	4	0	3	32	31	—	
Fanö ...	29.93	29	ESE	6	O	29.90	— .22	29	29	+ .1	ESE	6	S	*	30	27	—	
Sumburgh Head	29.95	40	SSE	4	O	29.84	— .11	37	36	— .2	ESE	6	r	y	42	35	0.05	
Stornoway ...	29.79	36	E	2	O	29.63	— .24	38	38	+ .8	E	4	0	4	41	28	0.02	
Wick ...	29.86	38	SSE	5	O	29.66	— .25	38	37	+ .4	ESE	8	rw	8	42	33	0.25	
Nairn ...	29.77	37	ESE	2	S	29.59	— .30	34	33	+ .1	ESE	1	S	1	37	22	0.05	
Aberdeen ...	29.81	37	E	6	O	29.57	— .36	39	38	+ .7	E	7	ogrw	8	43	22	0.43	
Leith ...	29.71	36	ENE	1	r	29.49	— .39	36	36	+ .2	SE	1	of	*	40	30	0.48	
Shields ...	29.62	39	ESE	5	r	29.49	— .31	37	36	— .4	WSW	3	0	5	42	35	0.37	
Spurn Head ...	29.53	38	ENE	6	r	29.56	— .17	37	36	— .4	W	5	bc	5	41	36	0.33	
York ...	29.55	37	NNE	1	r	29.50	— .22	38	36	— .2	W	2	C	*	41	35	0.45	
Loughborough	29.49	33	NNW	2	S	29.63	— .08	36	34	— .2	WSW	3	b	*	38	33	0.39	
BRITISH ISLANDS.																		
Ardrossan ...	29.68	37	NE	2	O	29.51	— .34	36	36	+ .4	Z	0	bc	0	40	32	—	
Malin Head ...	29.70	40	E	3	O	29.52	— .38	36	36	+ .2	S	1	or	1	41	33	0.03	
Mullaghmore ...	29.69	35	E	3	m	29.51	— .38	34	33	0	E	4	b	2	37	24	—	
Belmullet ...	29.67	41	E	2	O	29.47	— .31	32	30	— .4	E	2	b	*	47	30	—	
Donaghadee ...	29.66	41	E	2	r	29.54	— .29	35	35	— .4	W	2	0	0	44	33	0.05	
Liverpool (Bidston)	29.59	37	N	1	O	29.58	— .15	36	34	— .1	SW	1	bc	2	38	36	0.15	
Holyhead ...	29.64	39	NE	1	r	29.56	— .21	36	36	— .4	SSW	1	cm	2	42	35	0.11	
Parsonstown ...	29.67	37	Z	0	bc	29.48	— .35	26	25	— .2	Z	0	bc	*	43	25	—	
Valencia ...	29.69	43	SW	1	O	29.28	— .57	44	43	+ .2	E	4	rmg	4	49	33	0.09	
Roche's Point...	29.70	43	WNW	3	bc	29.38	— .45	45	45	+ .10	SSW	5	r	4	45	35	0.20	
Pembroke (St. Ann's Hd.)	29.66	42	NW	3	bc	29.53	— .21	42	42	+ .3	SE	4	cp	3	44	39	—	
Scilly ...	29.75	45	WNW	5	C	29.43	— .33	48	47	+ .4	S	8	og	6	48	42	0.14	
Prawle Point ...	29.69	40	NW	5	b	29.63	— .00	45	44	+ .9	S	6	og	4	46	36	—	
Jersey (St. Aubin's)	29.69	46	WNW	6	C	29.76	+ .39	43	41	+ .3	SSE	5	bc	4	45	29	0.17	
Hurst Castle ...	29.57	40	NW	5	O	29.72	+ .22	44	42	+ .8	WSW	5	cp	4	44	35	0.10	
Dungeness ...	29.41	40	W	6	r	29.75	+ .24	42	41	+ .1	WSW	6	cp	4	44	37	0.12	
London ...	29.44	35	NW	2	od	29.7	+ .19	36	35	0	S	2	b	*	41	34	0.35	
Oxford ...	29.52	36	W	3	r	29.70	+ .10	34	33	— .1	SSE	1	bm	*	37	33	0.37	
Cambridge ...	29.44	37	NE	2	r	29.72	+ .10	35	34	— .2	SSW	1	b	*	40	32	0.36	
Yarmouth ...	29.41	40	SE	6	r	29.68	— .02	36	35	— .2	SW	3	b	3	40	34	0.29	
GERMANY & HOLLAND.																		
Cuxhaven ...	29.96	30	ESE	6	C	29.90	— .20	32	32	+ .5	SSE	2	bc	*	32	27	—	
Berlin ...	*	*	*	*	*	30.00	+ .04	36	35	+ .4	Z	0	0	*	41	?	—	
Wiesbaden ...	*	*	*	*	*	30.03	+ .04	33	33	+ .15	SW	2	S	*	37	18	0.12	
Munich ...	29.92	30	E	1	O	29.75	— .09	38	37	+ .4	S	3	C	3	39	34	—	
The Helder ...	29.62	37	ESE	3	O	29.75	— .09	38	37	+ .4	S	3	C	3	39	34	—	
FRANCE AND BELGIUM.																		
Brussels (9 a.m.)	*	*	*	*	*	29.97	+ .36	37	36	— .1	SSW	2	b	*	47	37	—	
Cape Gris Nez	?	42	SW	4	O	?	?	41	39	+ .3	WSW	5	C	5	46	37	0.08	
Paris ...	29.76	43	WSW	4	O	29.95	+ .35	32	32	— .15	S	1	bc	*	48	31	—	
Brest ...	29.82	46	N	2	b	29.63	— .12	45	45	+ .1	SSW	7	r	4	52	37	0.04	
Lorient ...	29.83	46	NW	5	C	29.73	+ .06	46	44	+ .4	S	4	0	4	40	34	—	
Rochefort ...	29.97	46	WNW	6	bc	29.93	+ .11	38	38	— .8	SSE	5	b	2	53	30	—	
Belfort ...	29.99	38	S	2	O	30.08	+ .22	32	32	— .12	S	1	f	*	47	31	0.20	
Lyons ...	30.04	41	SE	2	O	30.07	— .02	36	35	— .1	E	4	0	2	45	34	—	
Nice ...	30.00	47	NW	2	O	30.05	+ .12	37	37	— .11	NE	1	C	*	50	36	—	
Perpignan ...	30.04	48	NW	4	O	29.91	— .04	39	36	— .9	SSE	4	bc	3	50	36	0.47	
Biarritz ...	*	*	*	*	*	29.5	— .38	46	44	— .2	S	4	r	4	52	45	0.16	
Corunna ...	30.12	47	N	4	b	30.00	— .13	44	42	— .2	SSW	1	C	5	54	43	—	
Lisbon ...	*	*	*	*	*	30.00	— .13	44	42	— .2	SSW	1	C	5	54	43	—	

1890.

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, 16th February,

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

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

→ = forces 5 to 7; → = forces 1 to 4.

○ = dead calm.

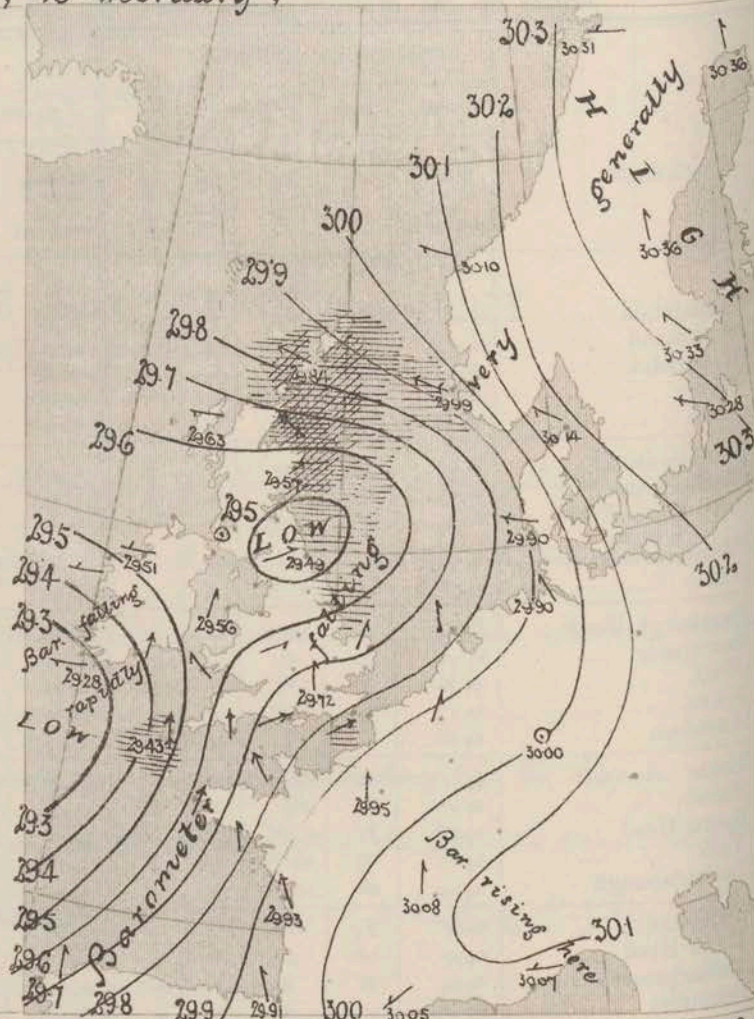
SEA DISTURBANCE—Where considerable, is shewn thus:

— = Rough. — = High.

MEAN HEIGHT OF THE BAROMETER

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

STATIONS.	MEAN READINGS.
	<i>ins.</i>
Sumburgh Head	29.713
Stornoway	29.700
Wick	29.737
Nairn	29.747
Aberdeen	29.780
Leith	29.803
Shields	29.847
York	29.884
Loughborough	29.912
Ardrossan	29.805
Donaghadee	29.812
Holyhead	29.848
Liverpool	29.873
Parsonstown	29.834
Valencia	29.850
Roche's Point	29.850
Pembroke	29.875
Silly	29.911
Jersey	29.975
Hurst Castle	29.944
Dover	29.957
LONDON	29.949
Oxford	29.938
Cambridge	29.935
Yarmouth	29.928



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

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

WEATHER is shown by Letters of the Beaufort Scale.

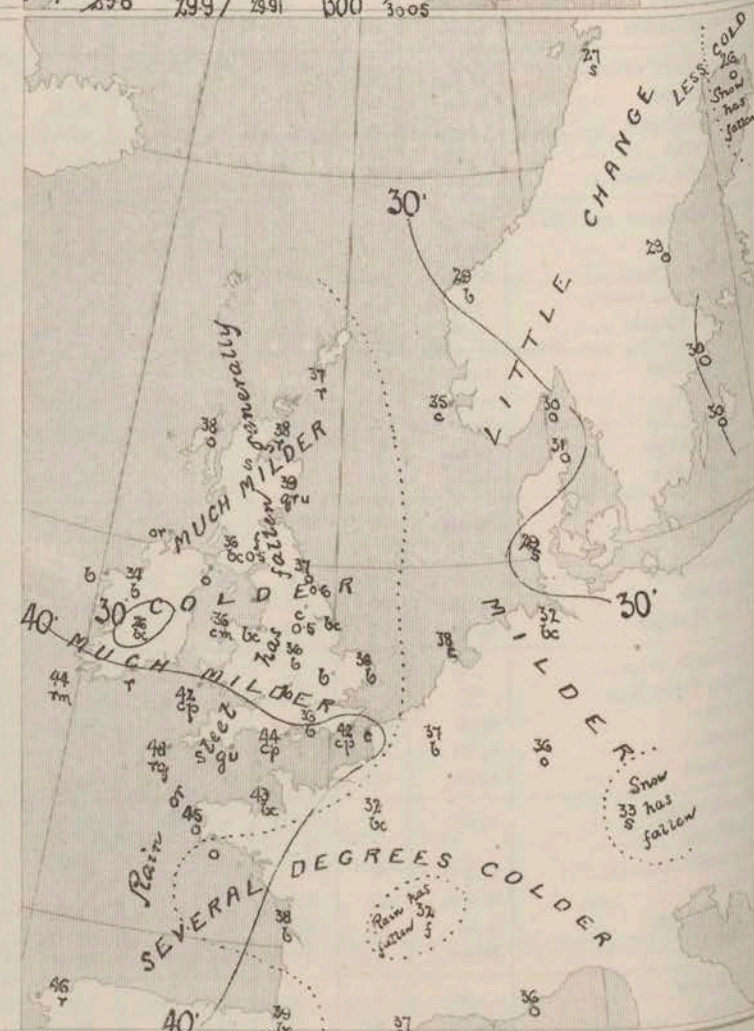
RAINFALL—A dotted line separates the districts in which rain has fallen from those where there has been none. Falls of 0.5 in. or more, are quoted in figures.

MEANS OF TEMPERATURE IN SHADE, AND RAINFALL.

(For the month of February.)

STATIONS.	TEMPERATURE.				RAINFALL (Inches.)
	Daily Max.	Daily Min.	at 8 a.m.		
			Dry.	Wet.	
Sumburgh Head.....	42.6	34.7	38.7	37.7	3.29
Stornoway	43.5	34.7	39.3	38.2	3.97
Wick	43.4	33.5	38.4	37.0	2.02
Nairn	43.4	33.8	37.4	35.7	1.51
Aberdeen	43.5	34.2	37.8	36.2	2.51
Leith.....	46.6	34.7	39.2	37.7	1.58
Shields	44.3	35.7	39.2	37.9	1.63
York	45.3	34.2	38.2	37.1	1.88
Loughborough	46.0	34.5	38.4	37.3	2.00
Ardrossan	45.0	36.7	40.0	38.6	3.47
Donaghadee.....	45.8	37.0	40.7	39.7	2.71
Holyhead	46.1	39.3	42.3	40.8	2.90
Liverpool	45.3	36.9	39.9	38.3	1.85
Parsonstown	47.4	36.1	40.1	38.8	2.45
Valencia	50.2	40.8	45.1	43.4	5.29
Roche's Point	48.0	40.0	43.6	42.2	4.86
Pembroke.....	46.2	40.3	43.1	41.9	3.20
Silly	49.7	43.7	46.9	45.3	2.98
Jersey	47.6	40.1	43.2	42.0	2.72
Hurst Castle	46.5	37.9	41.3	40.4	2.63
Dover	45.4	37.4	40.3	39.1	2.12
LONDON	46.9	36.0	39.7	38.6	1.89
Oxford	45.9	35.9	38.8	37.7	2.06
Cambridge	46.4	38.9	38.3	37.3	1.60
Yarmouth	43.5	35.2	38.9	38.2	2.02

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 30.3 in: over Scandinavia — 30.0 and less, over the south of Spain.

Lowest, 29.3 in: and less, in a large depression advancing to our southwestern coasts; 29.5 in: and less, in a smaller one near Brest.

Gradients steep in the southwest, and also over the eastern and northeastern side of the North Sea.

Barometer falling fast in the southwest of our islands, and considerably in the north, rising in the southeast, and in the Netherlands, Germany and east of France.

TEMPERATURE

Highest, 48° at Scilly, 46° at Bournemouth and Lowest, 45° at Bournemouth and Rocher Point.

Lowest, 26° at Harpenden and Bournemouth, 27° at Bournemouth, 28° at Harpenden, 29° at Harpenden, 30° at Harpenden and Paris, 33° at Harpenden, and 34° to 35° over the major part of Great Britain.

The changes since yesterday have been very irregular. Thermometer is now rising fast in the south.

WIND

Strong to a gale from S.W. over the Bay of Biscay and at the mouth of the Channel.

Light E. in the west and northwest of Ireland. A gale from ESE. in the north of Scotland and at Skudenes.

W. fresh in the southeast of England, moderate on our northeast coast, SE. over the eastern shores of the North Sea.

The gale at Scilly set in at about 6 a.m.

WEATHER

Rainy and threatening both on our southwestern and some northern coasts, showery in the Channel, temporarily clear

(after rain) both at our northwestern midlands, and some of our southeastern stations; very variable and changeable elsewhere.

Snow or fog in some places, clear sky in others. In London a bank of Str. Cloud was rising to the W.S.W.

SEA

High off the northeast of Scotland, rough at Scilly, rather rough off our east coast; moderate to smooth elsewhere.

PROBABLE CHANGES IN SYSTEM NOW PREVALENT

FORECASTS

For the 24 hours ending at NOON on 17th FEB. 1890.

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

WARNINGS

The SOUTH CONE was hoisted yesterday in districts 0 to 2, and this morning in districts 3, 5, 8, and 10.

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

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

YESTERDAY'S 2 P.M. REPORTS.

	BAR:	THER:		WIND		WEA.	SEA		BAR:	THER:		WIND		WEA.	SEA
		D.	W.	D.	F.					D.	W.	D.	F.		
Skudesnaes ...	29.14	41	34	ESE	4	c	3		Holyhead ...	29.68	39	39	NE	3	ring
Sumburgh Head ...	29.95	42	40	SSE	4	c	6		Valencia ...	29.77	47	43	WSW	3	bcl
Stornoway ...	29.83	41	40	E	2	c	2		Scilly ...	29.76	46	43	NNW	6	bc
Aberdeen ...	29.85	41	39	ESE	6	opqr	6		Jersey ...	29.66	44	42	WNW	5	c
Shields ...	29.70	40	38	ESE	4	r	4		Dungeness ...	29.35	43	43	S	6	rs
Ardrossan ...	29.75	40	40	NE	2	o	1		London ...	29.40	41	41	Z	0	rfg
Malin Head ...	29.76	41	39	ESE	3				Yarmouth ...	29.48	40	39	ESE	6	oga
Mullaghmore ...	29.75	36	36	E	4	m	2		Rochefort ...	29.93	47	46	WNW	6	c
Belmullet ...	29.73	47	44	SSW	2	b	*								

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

Weather cloudy or overcast over the greater part of Western Europe, with rain and snow at many of the English and French stations and rain (singly) in some parts of Spain and Italy. Fine in Ireland and Scotland, as well as in Germany, Austria and Northern Italy. Squalls of rain and sleet occurring later in the north and east of Scotland.

Temperature ^{highest} 50° and upwards, over the Central and Southern parts of the Mediterranean (Algiers 57°, Nemours 56°, Barcelona 58°); 48° and upwards in the west of France and on the coast of the Iberian Peninsula. Lowest 10° or less over Northern Russia and also over Southern Austria (Hermannstadt 6°, Orshangel 8°); frosts prevailing in all parts of Northern, Eastern, and Central Europe, as well as over the central parts of Ireland and Scotland. Daily maxima about 48° in our Islands generally, but thermometers rising above 55° in many parts of Southern Europe, and above 65° in Algeria.

Wind showing distinct cyclonic circulation over Western Europe; NW³ wind blowing strongly over the Bay of Biscay and the western part of the Channel, E⁵ breeze nearly as strong in the east of England. Moderate from SE² or S² over Scandinavia, Denmark, the Baltic and Germany; chiefly N¹ in Spain and Italy, variable in Algeria. E⁵ gale setting in towards night on the north and east coast of Scotland.

Barometer, highest, 30.5 ins. to 31.0 ins. or a little more, in a large anticyclone lying over Russia (Hörsow reading 31.03 ins.); high 30.1 ins. and upwards, in another area lying over or to the westward of Portugal. Lowest, 29.5 ins. and less, in a depression which had advanced from the SW² to the eastern part of the Channel. Depression moving slowly northeastward during day, and barometer beginning to rise in the south of England.

EXPLANATION OF COLUMNS GIVEN ON PAGE 1.

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

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

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

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

DAILY WEATHER REPORT.

for Monday 17th February. 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 2.)	SHADE TEMP.				
			Reading at 3 ³⁰ P. and Sea Level.	Dry.		Dir.	Force. (0 to 12.)	Reading at 8 a.m. and Sea Level.	Difference from 8 a.m. yesterday.	Dry.	Wet.	Difference from 8 a.m. yesterday.			Dir.	Force. (0 to 12.)	Max.	Min.	Amount of Rainfall.
SCANDINAVIA.																			
Haparanda ...	30.51	21	X	0	bc	30.53	+19	22	21	-4	X	0	o	*	30	19	0.08		
Hernösand ...	30.43	27	X	0	o	30.47	+11	26	25	-2	X	0	o	*	30	25	—		
Stockholm ...	30.38	29	X	0	o	30.44	+11	28	28	-2	X	0	o	*	32	28	0.04		
Wisby ...	30.37	29	X	0	o	30.39	+11	30	29	0	SE	2	C	*	32	27	—		
Bodö ...	30.38	29	E	2	bc	30.40	+09	28	25	+1	ENE	4	bc	2	30	25	—		
Christiansund ...	30.10	31	E	1	bc	30.26	+16	31	30	+2	ENE	3	bc	2	34	28	—		
Skudesnaes ...	30.11	36	ENE	6	o	30.30	+31	36	31	+1	SE	4	o	4	34	34	—		
Christiania Fjord (Færder) ...	30.29	31	NE	4	o	30.39	+18	31	30	+1	ENE	3	o	1	32	30	—		
Skagen (The Scaw) ...	30.26	31	SE	2	o	30.36	+22	31	28	0	SE	1	o	1	32	30	—		
Fanö ...	30.14	31	ENE	4	o	30.24	+34	31	30	+2	ENE	4	o	*	32	28	—		
Sumburgh Head ...	29.84	37	ENE	7	P	30.05	+21	43	41	+6	ENE	4	C	7	43	37	0.15		
Stornoway ...	29.58	40	SE	5	P	29.83	+20	43	40	+5	SE	5	P	4	43	39	0.04		
Wick ...	29.67	41	ENE	7	P	29.96	+30	43	42	+5	SE	7	o u	8	43	35	0.20		
Nairn ...	29.61	37	X	0	C	29.88	+27	41	40	+7	ENE	1	C	2	41	32	0.01		
Aberdeen ...	29.67	40	SE	2	o	29.99	+42	42	41	+3	SE	4	C u	6	42	34	0.11		
Leith ...	29.63	37	E	1	bc	29.88	+39	41	39	+5	ENE	2	C	*	42	30	—		
Shields ...	29.69	41	SE	2	C	29.89	+40	42	40	+5	ENE	4	o	5	42	35	0.01		
Spurn Head ...	29.76	41	ENE	6	bc	29.87	+31	42	40	+5	ENE	6	C	5	42	36	—		
York ...	29.72	44	ENE	1	o	29.87	+31	41	39	+3	E	1	o	*	42	37	0.01		
Loughborough ...	29.73	45	ENE	2	o	29.81	+18	38	37	+2	SE	3	o u	*	42	34	—		
BRITISH ISLANDS.																			
Ardrossan ...	29.61	38	NE	2	o	29.80	+29	41	40	+5	NE	3	o	3	41	35	0.08		
Malin Head ...	29.52	41	SE	4	o	29.66	+14	42	41	+6	SE	5	o T	3	42	36	0.07		
Mullaghmore ...	29.47	39	ENE	5	P	29.60	+09	43	42	+5	E	5	o	3	43	33	0.08		
Belmullet ...	29.48	39	E	3	o	29.58	+11	40	39	+8	E	3	C	*	41	30	0.08		
Donaghadee ...	29.56	42	SE	4	P	29.73	+19	43	42	+8	ENE	5	P	3	42	35	0.19		
Liverpool (Bidston) ...	29.63	43	ENE	4	o	29.74	+16	39	37	+3	E	4	o	3	42	36	0.03		
Holyhead ...	29.53	44	ENE	4	o	29.67	+11	41	39	+5	E	4	o m g	4	42	36	0.03		
Parsonstown ...	29.42	43	X	0	T	29.56	+08	42	41	+16	X	0	o	*	42	26	0.08		
Valencia ...	29.37	46	SE	2	o	29.48	+20	41	40	-3	N	1	P m	3	42	37	0.24		
Roche's Point ...	29.42	45	SW	4	bc	29.46	+08	44	44	-1	ENE	5	P	4	42	42	0.65		
Pembroke (St. Ann's Hd.) ...	29.52	44	SE	5	o	29.56	+03	44	44	+2	SE	5	o P	4	42	37	0.23		
Scilly ...	29.45	48	ENE	3	C	29.49	+06	46	45	-2	ENE	5	bc	4	42	42	0.34		
Prawle Point ...	29.59	45	ENE	6	P	29.64	+01	45	44	0	ENE	6	bc	4	45	43	0.13		
Jersey (St. Aubin's) ...	29.69	47	SE	5	o	29.71	-05	45	43	+2	SE	5	C g	4	48	42	0.06		
Hurst Castle ...	29.71	46	S	4	o	29.74	+02	46	44	+2	SW	4	C	5	47	42	—		
Dungeness ...	29.81	44	S	4	bc	29.84	+09	42	40	0	ENE	6	bc	4	46	40	0.05		
London ...	29.78	45	S	3	C	29.82	+10	39	38	+3	SE	2	C	*	50	36	—		
Oxford ...	29.77	42	SE	3	o	29.78	+08	40	38	+6	ENE	3	C	*	47	34	—		
Cambridge ...	29.81	40	S	1	bc	29.85	+13	38	37	+3	SE	2	bc	*	48	33	—		
Yarmouth ...	29.82	41	S	4	bc	29.90	+22	40	39	+4	SE	6	bc	5	46	35	—		
GERMANY & HOLLAND.																			
Cuxhaven ...	30.02	34	SE	2	bc	30.20	+30	31	30	-1	ENE	2	P	*	35	29	—		
Berlin ...	30.16	32	X	0	o	30.25	?	32	31	?	SE	2	o	*	32	30	—		
Wiesbaden ...	30.11	32	X	0	C	30.14	+14	36	35	0	E	3	o	*	43	34	—		
Munich ...	30.11	32	SE	2	C	30.13	+10	31	30	-2	SE	4	m	*	37	30	0.08		
The Helder ...	30.01	35	SW	1	bc	30.07	+22	35	34	-3	ENE	2	bc	2	43	32	—		
FRANCE AND BELGIUM.																			
Brussels (9 a.m.) ...	?	43	S	1	bc	29.97	+02	35	33	-2	ENE	1	C	*	47	34	—		
Cape Gris Nez ...	?	43	S	1	bc	29.97	+02	37	35	-4	SE	4	C	3	48	37	—		
Paris ...	29.90	44	X	0	C	29.89	-06	37	29	+5	SE	1	bc	*	49	?	—		
Brest ...	29.58	46	S	6	P	29.61	-02	47	45	+2	S	5	bc	5	52	41	1.14		
Lorient ...	29.62	45	SE	5	P	29.65	-08	47	44	+1	S	3	bc	5	48	45	0.39		
Rochefort ...	29.79	47	ENE	4	o	29.82	-11	45	44	+7	ENE	4	o	?	48	37	—		
Belfort ...	30.02	38	SE	1	bc	30.02	?	36	31	?	SW	1	bc	*	46	32	—		
Lyons ...	30.00	41	SE	1	bc	29.99	-09	38	36	+6	E	1	bc	*	46	?	—		
Nice ...	30.08	44	E	2	o	30.10	+03	41	38	+5	ENE	4	bc	3	46	?	—		
Perpignan ...	29.97	45	E	2	o	29.92	-13	50	50	+13	SE	3	P	*	?	?	0.08		
Biarritz ...	29.71	53	S	4	C	29.73	-18	50	43	+11	ENE	3	C	4	57	?	—		
SPAIN.																			
Corunna ...	29.82	50	NW	1	o	29.70	-30	46	44	+2	X	0	C	?	54	?	0.39		
Lisbon ...	29.82	50	NW	1	o	29.70	-30	46	44	+2	X	0	C	?	54	?	0.39		

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

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

WEATHER CHARTS

for 8 a.m. on

Monday, 17th February,

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:

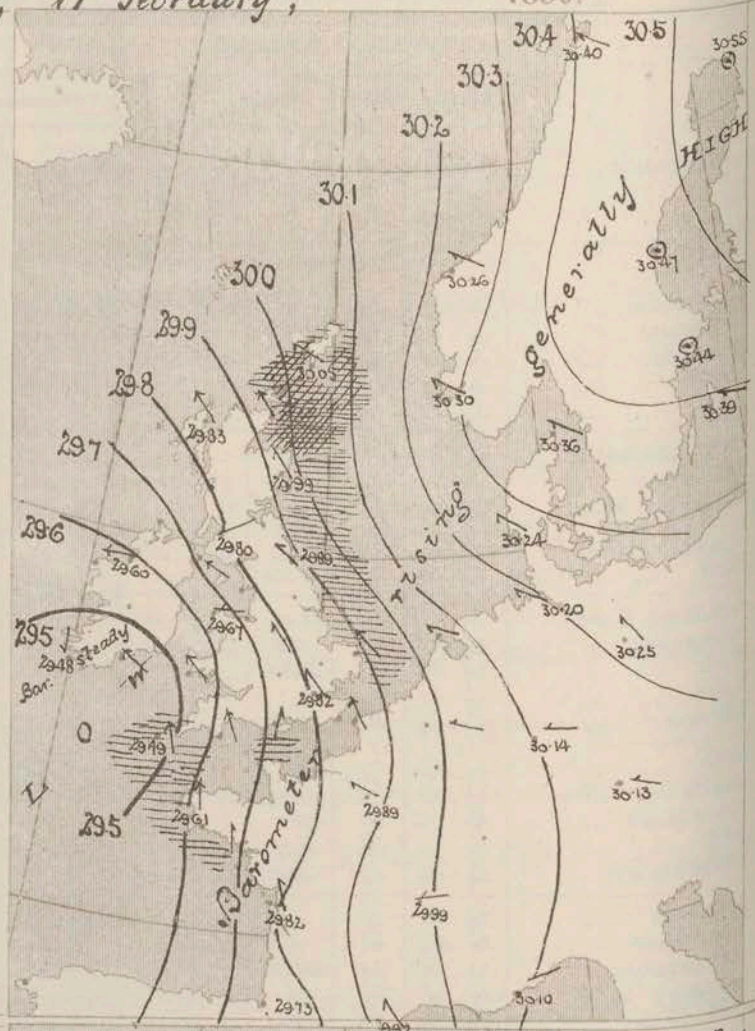
≡ = Rough. ≡ = High.

MEAN HEIGHT OF THE BAROMETER

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

During the 15 Years: 1871—1885.

STATIONS.	MEAN READINGS.
	in.
Sumburgh Head	29.713
Stornoway	29.700
Wick	29.737
Nairn	29.747
Aberdeen	29.780
Leith	29.803
Shields	29.847
York	29.884
Loughborough	29.912
Ardrossan	29.805
Donaghadee	29.812
Holyhead	29.848
Liverpool	29.873
Parsonstown	29.834
Valencia	29.850
Roche's Point	29.850
Pembroke	29.875
Scilly	29.911
Jersey	29.975
Hurst Castle	29.944
Dover	29.957
LONDON	29.949
Oxford	29.938
Cambridge	29.935
Yarmouth	29.928



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

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

WEATHER is shown by Letters of the Beaufort Scale.

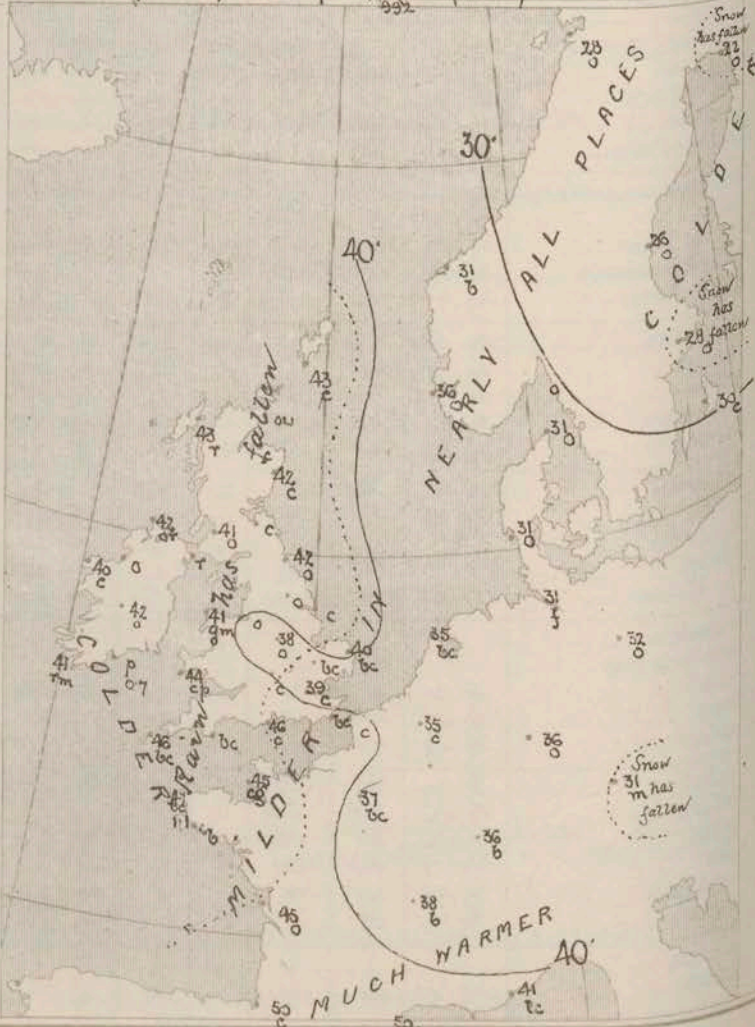
RAINFALL—A dotted line separates the districts in which rain has fallen from those where there has been none. Falls of 0.5 in. or more, are quoted in figures.

MEANS OF TEMPERATURE IN SHADE, AND RAINFALL.

(For the month of February.)

STATIONS.	TEMPERATURE.				RAINFALL (Inches.)
	Daily Max.	Daily Min.	At 8 a.m.		
			Dry.	Wet.	
Sumburgh Head.....	42.6	34.7	38.7	37.7	3.29
Stornoway	43.5	34.7	39.3	38.2	3.97
Wick	43.4	33.5	38.4	37.0	2.02
Nairn	43.4	33.8	37.4	35.7	1.51
Aberdeen	43.5	34.2	37.8	36.2	2.51
Leith	46.6	34.7	39.2	37.7	1.58
Shields	41.3	35.7	39.2	37.9	1.63
York	45.3	34.2	38.2	37.1	1.88
Loughborough	46.0	34.5	38.4	37.3	2.00
Ardrossan	45.0	36.7	40.0	38.6	3.47
Donaghadee.....	45.8	37.0	40.7	39.7	2.71
Holyhead.....	46.1	39.3	42.3	40.8	2.90
Liverpool	45.3	36.9	39.9	38.3	1.85
Parsonstown	47.4	36.1	40.1	38.8	2.45
Valencia	50.2	40.8	45.1	43.4	5.29
Roche's Point	48.9	40.0	43.6	42.2	4.86
Pembroke	46.2	40.3	43.1	41.9	3.20
Scilly	49.7	43.7	46.9	45.3	2.98
Jersey	47.6	40.1	43.2	42.0	2.72
Hurst Castle	46.5	37.9	41.3	40.4	2.63
Dover	45.4	37.4	40.3	39.1	2.12
LONDON	46.9	36.0	39.7	38.6	1.89
Oxford	45.9	35.9	38.8	37.7	2.06
Cambridge	46.4	33.9	38.3	37.3	1.60
Yarmouth	43.5	35.2	38.0	35.2	2.02

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



GENERAL SITUATION AT 8 A.M.

PRESSURE

Highest, 30.3 in: to 30.5 in: in an anticyclone over Scandinavia and the Baltic.
Lowest, 29.4 in: off our southwest coast.

Gradients are rather steep over Great Britain, but slight to the eastward of the North Sea.
Barometer rising except over Spain and in some parts of France.

TEMPERATURE

Highest, 50° at Biarritz and Perpignan, 47° at Brest and Lisieux, 46° at Bally and Lybion, and 45° at Jersey and Boulogne Point.
Lowest, 22° at Haparanda, 26° at Helsingfors, 28° at Stockholm and Rode, 30° at Mity, and 31° at Christiansund, at the Danish stations and Munich.
It has risen in nearly all parts of Western Europe since yesterday.

WIND

Fresh from the SE² over the United Kingdom, France, and Germany, blowing a moderate gale at Hirt, over Scandinavia calms are reported. A strong E¹ gale was felt on the northeast of Scotland yesterday.

WEATHER

Fine and bright on the northwest of Norway, over the southern and southeastern districts of England and in Central France, dull or cloudy elsewhere, with rain at Stornoway, in the north of Ireland, at Valenciennes and Perpignan, and passing showers at Rochefort and Hambro. Rain has fallen during the past 24 hours except at our eastern and southeastern stations.

SEA

Very high off the northeast of Scotland, rather rough in the North Sea generally and on our southwestern coasts moderate or slight elsewhere.

PROBABLE CHANGES IN SYSTEM NOW PREVALENT

A continuance of SE¹ winds, fresh or strong in force, with occasional cold rain or sleet is probable in most parts of the Kingdom.

FORECASTS

For the 24 hours ending at NOON on 18th FEB^y 1890.

DISTRICTS.

FORECASTS.

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

SE² gales; dull, unsettled, some rain.

SE² winds, strong, perhaps a gale; cloudy, some rain.

SE² winds, moderate; fair to dull and some rain.

SE² and S² winds, fresh; fair to cloudy and some rain.

DISTRICTS.

FORECASTS

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

E² and SE² winds, fresh, dull, some rain.

Same as N°5.

E² winds, fresh; dull, unsettled, some rain.

WARNINGS

The SOUTH CONE is still flying except in districts 6, 7, and 9.

N°c.—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 ...	30.04	38	31	E	8	C	5	Holyhead ...	29.55	43	42	SE	2	dmz	2
Sumburgh Head								Valencia ...							
Stornoway ...	29.58	40	40	E	5	T	5	Scilly ...							
Aberdeen ...								Jersey ...	29.71	47	44	SE	5	C	4
Shields ...								Dungeness ...	29.81	46	44	SPW	6	C	5
Ardrossan ...								London ...							*
Malin Head	29.52	40	38	ESE	14	C	1	Yarmouth ...							
Mullaghmore ...								Rocheport ...	29.88	47	44	SE	5	C	2
Belmullet ...	29.44	44	39	E	8	C	*								

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

Weather fine and bright over Russia, Poland and Hungary, as well as in the extreme south of Europe; temporarily fine over France and a great part of England, very dull and unsettled elsewhere, rain falling on our south and southwest coasts and at Toulon and Algiers, rain and snow in the north, snow in some parts of Germany. Heavy rain in Brittany later, considerable falls on our southwestern coasts and in Louthness, and smaller quantities on our N.W. and S.W. coasts generally.

Temperature changing considerably and very irregularly over western Europe, falling fast over Russia. Highest 50° and more over several parts of the Mediterranean, 58° at Bilbao, 48° at Scilly, 46° at Corunna, and 40° to 45° at most stations in the south and southwest of the British Islands and west of France, lowest over eastern and central Europe, -5° at Moscow, +4° at Kharkov, 5° at Hermannstadt, 9° at St. Petersburg, 9° at Laracow, and less than 30° at all the Russian, Austrian and Polish stations, rising to between 45° and 52° over the south and east of England later.

Wind light to moderate, and mainly from the south-eastward, over eastern and northern Europe, E. to N. over the Mediterranean; much stronger in force and very variable in direction in the west. - ESE gales over the northern half of Scotland moderate to fresh W. and SW. breezes over the east and southeast of England, S. gales at the mouth of the Channel and moderate E. breezes in Ireland. Gales all dying down later.

Barometer highest 30.3 ins. to 30.9 ins. over Sweden, the Baltic and Russia, 30.0 ins. and more over the south of Spain; lowest 29.5 ins. and less in a depression near Berwick, and 29.3 ins. and less in another (larger) one off our southwestern coasts. Gradients steep between Scotland and Norway and also over the Bay of Biscay and southwest of England, NE depression filling up later, that in southwest moving S. towards Spain.

SUMMARY OF CHANGES IN THE WEATHER OVER THE BRITISH ISLANDS AND THEIR NEIGHBOURHOOD FROM THE 9TH TO THE 15TH FEBRUARY 1890

The anticyclonic conditions which prevailed over the United Kingdom at the close of last week continued during the earlier part of that now under notice, the system, however, continued to move very slowly to the eastward and north-eastward, but increased both in size and intensity. The weather was cold, dry, and bright except in Ireland and the extreme north of Scandinavia, where rain fell at times.

On Tuesday the barometer was falling in the west and southwest, rising in the north and east, and as the gradients increased SE. gales began to spread gradually over Scotland and Ireland, and in several places blew strongly. Rain soon began to fall in the southwest of Ireland and northwest of France, whence the fall passed slowly in an easterly and northerly direction, as the centre of a depression advanced to the St. George's and Bristol Channel. This system reached our S.W. coasts early on Thursday and filled up off the mouth of the Thames on Friday. In its rear NW. gales were experienced for a time on our southwestern coasts.

Friday evening brought a new depression to the Bay of Biscay, and this, as it advanced north-eastward across Brittany and the Channel, grew deeper and caused large falls of cold rain, sleet and wet snow all over England and France, no gale of any importance. On its advancing northwards, however, SE. gales again set in over the east 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 *Tuesday 18th February* 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 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 ...	30.53	31	2	0	0	30.50	-0.05	18	18	-4	2	0	0	*	?	18	—	
Hernösand ...	30.52	28	2	0	0	30.56	+0.05	25	24	-1	2	0	0	*	30	25	0.04	
Stockholm ...	30.58	29	2	0	0	30.63	+0.15	30	28	+2	2	0	0	*	32	27	—	
Wisby ...	30.54	31	N/E	4	0	30.59	+0.20	32	32	+2	ENE	4	0	*	36	25	—	
Bodö ...	30.43	29	ESE	2	0	30.57	+0.17	23	21	-5	E	2	0	1	30	21	—	
Christiansund ...	30.43	38	SW	4	0	30.57	+0.31	36	35	+5	WPNW	4	0	4	?	?	0.43	
Skudesnaes ...	30.47	36	E	2	0	30.63	+0.33	31	28	-5	ENE	4	0	4	36	30	—	
Christiania Fjord (Færder)	30.54	31	N/E	3	0	30.66	+0.27	30	28	-1	NNW	4	0	1	32	30	—	
Skagen (The Seaw)	30.50	31	SE	1	0	30.63	+0.27	33	32	+2	SE	1	0	1	?	30	—	
Fanö ...	30.41	29	E	4	0	30.51	+0.27	27	26	-4	E	4	0	*	32	25	—	
BRITISH ISLANDS.																		
Sumburgh Head ...	30.26	43	N/E	4	0	30.45	+0.40	40	38	-3	SE	3	0	6	45	39	—	
Stornoway ...	29.95	42	E	6	0	30.16	+0.33	43	43	0	SE	6	0	5	45	40	0.02	
Wick ...	30.14	43	SE	7	0	30.35	+0.39	42	39	-1	SE	8	0	8	43	39	—	
Nairn ...	30.02	42	E	3	0	30.19	+0.31	41	40	0	SE	6	0	3	45	39	—	
Aberdeen ...	30.12	42	SE	6	0	30.36	+0.37	40	38	-2	ESE	6	0	7	43	40	—	
Leith ...	29.98	42	SE	2	0	30.25	+0.37	41	40	0	E	4	0	*	47	38	0.01	
Shields ...	30.00	43	ESE	5	0	30.25	+0.36	40	39	-2	ESE	4	0	5	44	39	—	
Spurn Head ...	30.00	41	ESE	4	0	30.21	+0.34	39	38	-3	ESE	6	0	5	42	38	—	
York ...	29.98	42	E	3	0	30.23	+0.36	39	38	-2	E	2	0	*	44	38	—	
Loughborough ...	29.94	44	E	3	0	30.16	+0.35	37	37	-1	E	2	0	ogm	44	37	—	
GERMANY & HOLLAND.																		
Ardrossan ...	29.91	43	ENE	3	0	30.16	+0.36	43	41	+2	N/E	3	0	2	44	39	—	
Malin Head ...	29.76	42	SE	4	0	29.99	+0.33	42	41	0	SE	4	0	omT	43	40	0.19	
Mullaghmore ...	29.71	44	ESE	5	0	29.94	+0.34	45	44	+2	ENE	5	0	om	45	41	0.02	
Belmullet ...	29.66	42	E	4	0	29.88	+0.30	42	41	+2	E	2	0	*	44	39	—	
Donaghadee ...	29.84	40	SE	5	0	30.07	+0.34	44	44	+1	SE	6	0	4	45	40	0.25	
FRANCE AND BELGIUM.																		
Liverpool (Bidston) ...	29.89	43	ESE	3	0	30.09	+0.35	40	38	+1	E	5	0	4	45	39	—	
Holyhead ...	29.80	45	E	5	0	30.01	+0.34	41	41	0	E	5	0	cg	50	39	0.34	
Parsonstown ...	29.68	45	2	0	0	29.92	+0.36	44	42	+2	SE	1	0	*	45	40	0.11	
Valencia ...	29.56	44	E	3	0	29.80	+0.32	44	42	+3	E	2	0	3	47	40	0.11	
Roche's Point ...	29.61	45	SE	5	0	29.83	+0.37	47	46	+3	SE	5	0	4	49	43	0.20	
GERMANY & HOLLAND.																		
Pembroke (St. Ann's Hd.) ...	29.73	45	ESE	5	0	29.93	+0.37	43	43	-1	E	4	0	4	48	42	0.07	
Scilly ...	29.60	46	SE	7	0	29.78	+0.25	49	49	+3	ESE	6	0	5	51	42	0.53	
Prawle Point ...	29.78	46	ESE	4	0	29.92	+0.28	47	47	+2	ENE	3	0	2	48	45	—	
Jersey (St. Aubin's) ...	29.80	47	ESE	3	0	29.93	+0.22	48	46	+3	E	5	0	ogm	48	44	0.10	
Hurst Castle ...	29.86	45	SE	4	0	30.02	+0.28	44	42	-2	E	3	0	ogm	47	42	—	
FRANCE AND BELGIUM.																		
Dungeness ...	29.93	45	SE	4	0	30.07	+0.23	42	40	0	SE	3	0	3	48	40	—	
London ...	29.93	45	SE	3	0	30.08	+0.26	39	38	0	ENE	2	0	*	51	38	—	
Oxford ...	29.95	44	ESE	2	0	30.09	+0.31	39	38	-1	ENE	1	0	*	47	38	—	
Cambridge ...	30.00	40	SE	1	0	30.16	+0.31	39	38	+1	E	1	0	*	50	35	—	
Yarmouth ...	30.01	41	SE	5	0	30.19	+0.29	38	37	-2	ESE	6	0	5	42	37	—	
GERMANY & HOLLAND.																		
Cuxhaven ...	30.32	30	E	5	0	30.48	+0.28	29	28	-2	E	4	0	*	31	27	—	
Berlin ...	30.35	33	2	0	0	30.50	+0.25	27	26	-5	SE	3	0	*	36	25	—	
Wiesbaden ...	*	*	*	*	*	30.31	+0.17	33	31	-3	NE	2	0	*	37	32	—	
Munich ...	30.19	29	N/E	2	0	30.27	+0.14	24	24	-1	E	4	0	*	32	?	—	
The Helder ...	30.16	38	E	3	0	30.32	+0.25	34	33	-1	E	4	0	3	43	34	—	
FRANCE AND BELGIUM.																		
Brussels (9 a.m.) ...	*	43	E	2	0	30.21	+0.22	33	32	-2	E	2	0	*	50	33	—	
Cape Gris Nez ...	*	43	E	2	0	?	?	36	36	-1	E	3	0	3	48	36	—	
Paris ...	29.96	43	NE	1	0	30.08	+0.15	35	36	+2	SE	2	0	*	51	37	—	
Brest ...	29.71	48	S	3	0	29.76	+0.15	46	45	-1	SE	4	0	4	52	39	0.12	
Lorient ...	29.70	47	ESE	3	0	29.80	+0.15	46	44	-1	ESE	4	0	5	52	43	0.04	
FRANCE AND BELGIUM.																		
Rochefort ...	29.83	52	SE	3	0	29.88	+0.06	46	45	+1	ESE	4	0	?	57	39	—	
Belfort ...	30.09	38	E	1	0	30.19	+0.17	31	24	-5	NW	3	0	*	46	30	—	
Lyons ...	30.03	46	S	2	0	30.17	+0.18	36	34	-2	N	2	0	*	54	38	—	
Nice ...	30.11	48	E	6	0	30.21	+0.11	46	38	+5	ENE	5	0	3	52	?	—	
Perpignan ...	29.95	51	SE	3	0	30.02	+0.10	52	52	+2	SE	4	0	*	54	50	1.30	
Biarritz ...	29.72	58	SW	4	0	29.72	-0.01	46	44	-4	E	4	0	5	63	43	—	
PENINSULA.																		
Corunna ...	29.65	47	2	0	0	29.65	-0.05	44	42	-2	2	0	0	5	48	41	0.04	
Lisbon ...	29.65	47	2	0	0	29.65	-0.05	44	42	-2	2	0	0	5	48	41	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 Tuesday, 18th February, 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.

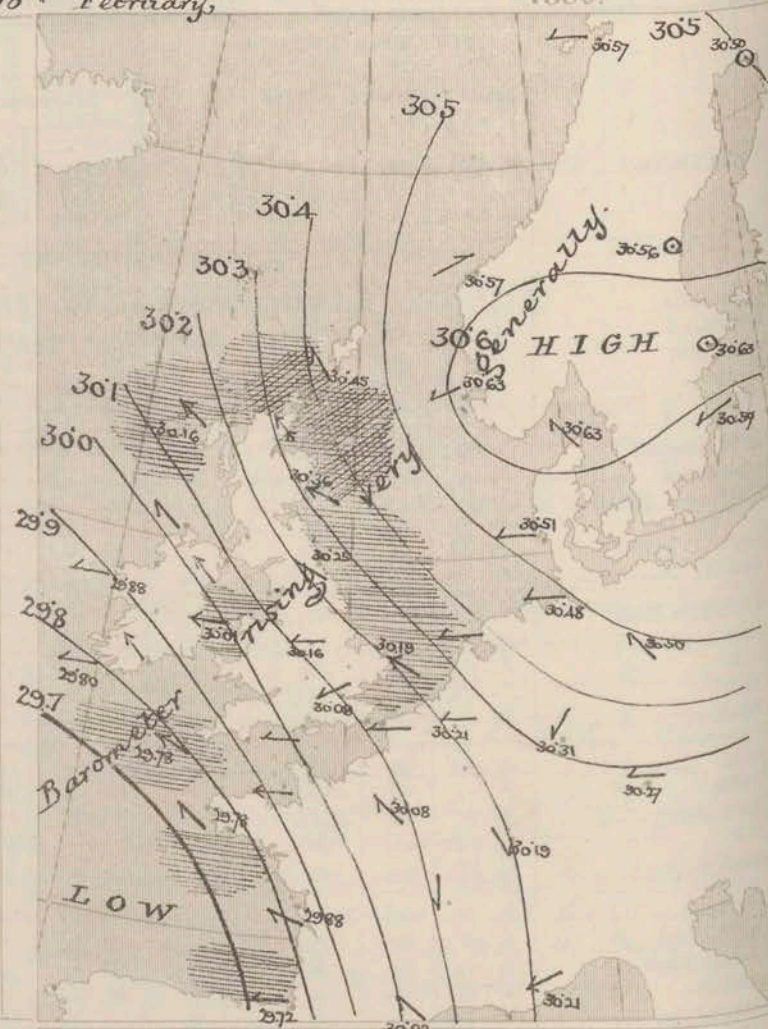
SEA DISTURBANCE—Where considerable, is shown thus:

▨ = Rough. ▨ = High.

MEAN HEIGHT OF THE BAROMETER

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

STATIONS.	MEAN READINGS.
	ins.
Sumburgh Head	29.713
Stornoway	29.700
Wick	29.737
Nairn	29.747
Aberdeen	29.780
Leith	29.803
Shields	29.847
York	29.884
Loughborough	29.912
Ardrossan	29.805
Donaghadee	29.812
Holyhead	29.848
Liverpool	29.873
Parsonstown	29.834
Valencia	29.850
Roche's Point	29.850
Pembroke	29.875
Seilly	29.911
Jersey	29.975
Hurst Castle	29.944
Dover	29.957
LONDON	29.949
Oxford	29.933
Cambridge	29.935
Yarmouth	29.928



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

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

WEATHER is shown by Letters of the Beaufort Scale.

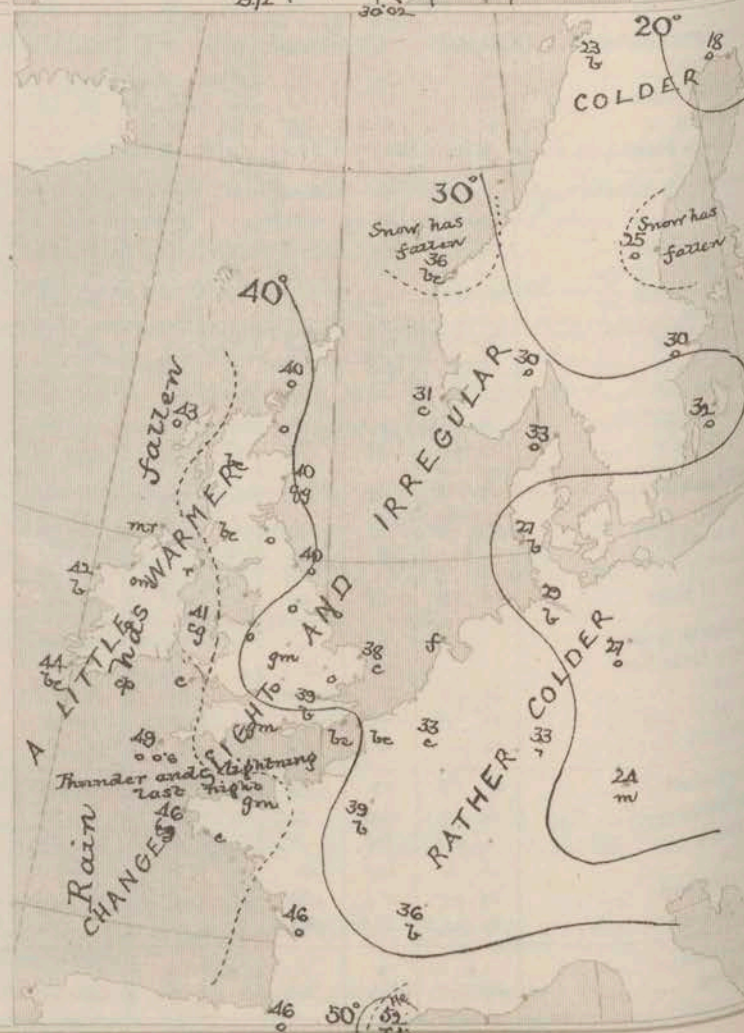
RAINFALL—A dotted line separates the districts in which rain has fallen from those where there has been none. Falls of 0.5 in. or more, are quoted in figures.

MEANS OF TEMPERATURE IN SHADE, AND RAINFALL.

(For the month of February.)

STATIONS.	TEMPERATURE.				RAINFALL. (Inches.)
	Daily Max.	Daily Min.	at 8 a.m.		
			Dry.	Wet.	
Sumburgh Head.....	42.6	34.7	38.7	37.7	3.29
Stornoway.....	43.5	34.7	39.3	38.2	3.97
Wick.....	43.4	33.5	38.4	37.0	2.02
Nairn.....	43.4	33.8	37.4	35.7	1.51
Aberdeen.....	43.5	34.2	37.8	36.2	2.51
Leith.....	46.6	34.7	39.2	37.7	1.58
Shields.....	44.3	35.7	39.2	37.9	1.63
York.....	45.3	34.2	38.2	37.1	1.88
Loughborough.....	46.0	34.5	38.4	37.3	2.00
Ardrossan.....	45.0	36.7	40.0	38.6	3.47
Donaghadee.....	45.8	37.0	40.7	39.7	2.71
Holyhead.....	46.1	39.3	42.3	40.8	2.90
Liverpool.....	45.3	36.9	39.9	38.3	1.85
Parsonstown.....	47.4	36.1	40.1	38.8	2.45
Valencia.....	50.2	40.8	45.1	43.4	5.29
Roche's Point.....	48.9	40.0	43.6	42.2	4.86
Pembroke.....	46.2	40.3	43.1	41.0	3.20
Seilly.....	49.7	43.7	46.9	45.3	2.98
Jersey.....	47.6	40.1	43.2	42.0	2.72
Hurst Castle.....	46.5	37.9	41.3	40.4	2.63
Dover.....	45.4	37.4	40.3	39.1	2.12
LONDON.....	46.9	36.0	39.7	38.6	1.89
Oxford.....	45.0	35.9	38.8	37.7	2.06
Cambridge.....	46.4	33.9	38.3	37.3	1.60
Yarmouth.....	43.5	35.2	38.9	38.2	2.02

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 in. to 30.6 in. and more, in an anticyclone lying over the Baltic, Scandinavia, and the eastern part of the North Sea.
 Lowest, 29.7 in. and less, over Spain, the Bay of Biscay, and off our southwestern coast.
 Gradients moderate for SE winds over the United Kingdom, slight and variable to the eastward of the North Sea.
 Barometer rising generally, most over our Islands.

TEMPERATURE

Highest, 52° at Perpignan, 49° at Bally, 48° at Jersey, 47° at Howland Point and Hooker Point, and 46° at all the western French stations and Sicily.
 Lowest, (1) 18° at Haparanda, 23° at Bodo, 25° at Hammerfest, and 30° at Stockholm; (2) 24° at Munich, 27° at Berlin, and 31° at Riga.
 Over England it varies from 36° to 47°; at Paris and in London it was 39°.

WIND

SE at almost all our stations, fresh in Ireland, strong on the east coast of England, strong to gale in the northeast of Scotland. Over our southern and midland counties it was light from the E., and in the Bay of Biscay moderate from SE.

WEATHER

Fine and bright over France and the southeast of England, cloudy more or less elsewhere, with rain at some western stations and at Perpignan. Rain fell generally in the east and southwest yesterday—heavily at Perpignan and Bally; thunder and lightning occurred very generally on our southeastern and southern coasts.

SEA

Still very high on the northeast coast of Scotland, rather rough at many of the eastern, eastern, and southern stations, slight off Ouessant.

PROBABLE CHANGES IN SYSTEM NOW PREVALENT

There is no indication of any change of importance.

FORECASTS

For the 24 hours ending at NOON on 19th FEB^{ry} 1890.

DISTRICTS.

FORECASTS.

- | | | |
|---|------------------|---|
| 0 | SCOTLAND NORTH | { SE ² winds, strong; squally, dull, perhaps some rain. |
| 1 | SCOTLAND EAST | |
| 2 | ENGLAND N.E. | { SE ² and E ² winds, strong to fresh; fair as a whole. |
| 3 | ENGLAND EAST | |
| 4 | MIDLAND COUNTIES | { E ² breezes, light to moderate; fair. Cold tonight. |
| 5 | ENGLAND SOUTH | |

DISTRICTS.

FORECASTS

- | | | |
|---|---------------|---|
| 6 | SCOTLAND WEST | { SE ² winds, moderate; fair. |
| 7 | ENGLAND N.W. | |
| 8 | ENGLAND S.W. | { SE ² winds, fresh or strong; some rain at times. |
| 9 | IRELAND NORTH | |
| 0 | IRELAND SOUTH | |

WARNINGS

NONE ISSUED.

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

YESTERDAY'S 2 P.M. REPORTS.

THER: WIND								THER: WIND							
BAR:	D.	W.	D.	F.	WEA.	SEA		BAR:	D.	W.	D.	F.	WEA.	SEA	
Skudesnaes ...	30.41	36	31	ESE	4	c	+	Holyhead ...	29.74	49	45	SE	4	bc	4
Sumburgh Head ...	30.19	44	42	SE	4	c	7	Valencia ...	29.49	47	45	ESE	4	o	6
Stornoway ...	29.74	45	45	SE	5	c	4	Scilly ...	29.57	49	47	SE	6	c, T	4
Aberdeen ...	30.07	42	42	SE	5	o, m	6	Jersey ...	29.75	46	44	ESE	4	c, m, T	4
Shields ...	29.96	43	41	ESE	5	o	5	Dungeness ...	29.85	46	44	SE	5	bc	4
Ardrossan ...	29.85	43	43	E	3	o, m	2	London ...	29.84	49	46	SE	3	c	4
Malin Head ...	29.73	40	39	SE	5	o, T	3	Yarmouth ...	29.95	42	40	SE	5	o	4
Mullaghmore ...	29.65	42	41	E	5	o, m, T	4	Rochefort ...	29.34	52	50	SE	4	o	4
Belmullet ...	29.63	44	42	ESE	3	o	*								

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

Weather fine and bright over the southern, eastern, and northeastern parts of the Mediterranean, central Russia, the eastern parts of France and England, and over the Bay of Biscay and northwest of Norway; cloudy or overcast elsewhere, with rain at Perpignan, on our southwestern, western, and northwestern coasts; a threatening appearance in the northeast of Scotland, and in the Gulf of Finland; fog in Hungary. Rain general on our west and southwest coast later, thunder and lightning in the southwest and south, and much rain at Perpignan.

Temperature in morning exceeding 50° on the southern and western shores of the Mediterranean, and ranging between 40° and 50° on many of the coasts of Western Europe and the British Isles; below the freezing point over Northern, Eastern, and Southern Europe, and as low as (1) -8° F at Moscow, +5° at Kharkov, 9° at Kiev, 18° at St. Petersburg and Kuopio, 19° at Archangel, and Nicolaiiff; (2) -1° F at Hermannstadt, +14° at Cracow, 21° at Warsaw, 23° at Lemberg, and 24° at Breslau. Rising to 50° and more in the south of England later, and to 63° at Rimini.

Wind SE^{ly} over Northwestern and Northern Europe - fresh to strong in the British Islands (a gale at Wick), moderate on the eastern shores of the North Sea; more S^{ly} over Spain and the Bay of Biscay, E^{ly} over the south of France. Very light and variable over eastern and central Europe. No important change later.

Barometer highest, 30.3 in. to 30.8 in. in a very large anticyclone covering the whole of Eastern and Northern Europe; lowest 29.5 in. and less, in a depression off our southwestern coast, and 29.7 in. and less over Portugal and the northwest of Spain. Gradient moderate over the British Isles, slight elsewhere. Rising steadily later throughout Northwestern Europe, falling slowly over the Spanish Peninsula.

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 19th February. 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.	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 ...	30.64	8	SW	2	0	30.66	+16	6	5	-12	X	0	bc	*	23	5	0.04	
Hernösand ...	30.74	3	X	0	0	30.82	+26	10	10	-15	X	0	bc	*	34	?	—	
Stockholm ...	30.69	29	X	0	0	30.78	+15	23	23	-7	N/E	2	bc	*	32	?	—	
Wisby ...	30.64	31	E	2	0	30.65	+06	32	31	0	N/E	2	0	*	36	26	0.04	
Bodö ...	30.32	25	E	2	0	30.29	-18	28	26	+5	SE	2	0	1	?	21	—	
Christiansund ...	30.69	36	ENE	1	0	30.76	+19	31	29	-5	ENE	4	bc	2	36	30	0.16	
Skudesnaes ...	30.70	34	E	2	0	30.75	+12	32	30	+1	E	2	bc	2	36	30	—	
Christiania Fjord (Fæder)	30.72	31	?	6	0	30.79	+13	31	29	+1	N/E	3	0	1	?	28	—	
Skagen (The Seaw)	30.73	31	X	0	0	30.74	+11	32	30	-1	E	1	0	1	34	30	—	
Fanö ...	30.65	31	E	4	0	30.67	+16	30	29	+3	ENE	4	0	*	32	27	—	
BRITISH ISLANDS.																		
Sumburgh Head	30.51	40	SE	4	0	30.55	+10	40	37	0	SE	4	0	6	41	37	—	
Stornoway ...	30.19	44	SE	6	0	30.24	+08	42	41	-1	SE	6	0	5	45	39	—	
Wick ...	30.39	42	SE	8	0	30.46	+11	41	39	-1	SE	8	0	8	43	39	—	
Nairn ...	30.35	42	NNE	3	0	30.37	+18	39	37	-2	ENE	4	0	2	43	38	—	
Aberdeen ...	30.44	40	SE	5	0	30.53	+14	38	36	-2	SE	5	0	6	41	38	—	
Leith ...	30.31	40	E	3	0	30.39	+14	40	38	-1	E	4	0	*	47	36	—	
Shields ...	30.34	41	ENE	5	0	30.41	+16	39	37	-1	ENE	4	0	6	41	37	—	
Spurn Head ...	30.26	39	E	6	0	30.35	+14	38	36	-1	ENE	6	0	5	40	36	—	
York ...	30.30	39	E	2	0	30.38	+15	38	36	-1	E	3	0	*	41	37	—	
Loughborough	30.22	40	N/E	3	0	30.30	+14	36	35	-1	ENE	4	0	*	46	35	—	
GERMANY & HOLLAND.																		
Ardrossan ...	30.22	42	N/E	3	0	30.27	+11	38	38	-5	N/E	3	0	2	44	37	—	
Malin Head ...	30.07	43	SE	5	0	?	?	42	40	0	SE	5	0	3	45	40	0.01	
Mullaghmore ...	30.01	45	E	6	0	30.02	+08	43	41	-2	E	6	0	4	47	42	0.01	
Belmullet ...	29.95	45	ENE	4	0	29.93	+05	44	42	+2	ENE	4	0	*	48	42	0.01	
Donaghadee ...	30.15	43	SE	5	0	30.20	+13	42	42	-2	E	6	0	4	45	41	0.07	
FRANCE AND BELGIUM.																		
Liverpool (Bidston)	30.15	41	E	5	0	30.21	+12	38	36	-2	E	5	0	4	44	36	—	
Holyhead ...	30.06	40	E	6	0	30.12	+11	40	39	-1	E	6	0	6	46	40	—	
Parsonstown ...	29.96	45	ENE	1	0	29.96	+04	45	42	+1	ENE	3	0	*	49	43	—	
Valencia ...	29.83	49	ENE	4	0	29.80	0	49	48	+5	E	4	0	4	52	43	0.58	
Roche's Point...	29.90	47	ENE	5	0	29.88	+05	47	46	0	ENE	6	0	5	49	45	0.01	
SPAIN.																		
Pembroke (St. Ann's Hd.)	29.96	46	E	5	0	30.01	+08	43	42	0	ENE	7	0	5	48	42	0.01	
Scilly ...	29.84	50	ENE	6	0	29.87	+09	50	49	+1	ENE	6	0	5	51	48	—	
Prawle Point ...	29.98	46	ENE	6	0	30.04	+12	46	45	-1	ENE	4	0	3	49	45	—	
Jersey (St. Aubin's)	29.95	51	E	3	0	30.06	+13	47	45	-1	E	4	0	3	55	46	—	
Hurst Castle ...	30.06	45	ENE	4	0	30.15	+13	44	42	0	SE	5	0	4	47	42	—	
ITALY.																		
Dungeness ...	30.11	45	ENE	4	0	30.22	+15	39	37	-3	E	4	0	3	48	38	—	
London ...	30.15	42	E	3	0	30.25	+17	38	37	-1	E	3	0	*	47	37	—	
Oxford ...	30.18	40	ENE	2	0	30.24	+15	36	36	-3	ENE	2	0	*	49	35	—	
Cambridge ...	30.23	40	E	2	0	30.31	+15	37	36	-2	E	2	0	*	49	34	—	
Yarmouth ...	30.23	39	ENE	6	0	30.33	+14	36	35	-2	ENE	6	0	5	40	34	—	
PORTUGAL.																		
Cuxhaven ...	30.56	30	ENE	4	0	30.59	+11	32	31	+3	E	4	0	*	?	?	—	
Berlin ...	30.59	32	E	4	0	30.61	+11	30	28	+3	ENE	3	0	*	32	?	—	
Wiesbaden ...	*	*	*	*	*	30.44	+13	32	30	-1	ENE	4	0	*	36	32	—	
Munich ...	30.38	28	E	4	0	30.43	+16	27	26	+3	E	5	0	*	30	?	—	
The Helder ...	30.39	34	E	4	0	30.46	+14	29	28	-5	E	4	0	4	37	28	—	
AFRICA.																		
Brussels (9 a.m.)	*	*	*	*	*	30.34	+13	31	31	-2	E	1	0	*	46	31	—	
Cape Gris Nez	?	45	E	3	0	?	?	34	33	-1	ENE	2	0	2	52	34	—	
Paris ...	30.12	48	E	3	0	30.23	+15	33	32	-1	E	1	0	*	58	32	—	
Brest ...	29.82	52	SE	4	0	29.90	+14	50	47	+4	SE	4	0	5	52	45	0.12	
Lorient ...	29.86	?	ENE	4	0	29.96	+16	46	45	0	SE	3	0	3	54	45	—	
ASIA.																		
Rochefort ...	29.92	53	ENE	5	0	30.05	+17	40	47	+2	ENE	4	0	?	59	39	—	
Belfort ...	30.19	37	NW	1	0	30.28	+09	27	22	-4	NW	3	0	*	41	25	—	
Lyons ...	30.17	46	ENE	1	0	30.29	+12	30	29	-1	N	2	0	*	58	29	—	
Nice ...	30.23	51	ENE	4	0	30.23	+02	50	46	+4	ENE	4	0	4	59	?	—	
Perpignan ...	30.08	53	ENE	4	0	30.11	+09	53	52	+1	ENE	2	0	*	54	52	0.43	
Biarritz ...	29.71	59	ENE	3	0	29.95	+23	52	49	+6	N	2	0	2	64	?	—	
AUSTRALIA.																		
Corunna ...	*	*	*	*	*	?	?	?	?	?	?	?	?	?	?	?	?	—
Lisbon ...	29.76	47	ENE	1	0	29.99	+34	41	41	-3	N/E	1	0	?	54	41	0.16	

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, 19th February,

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:

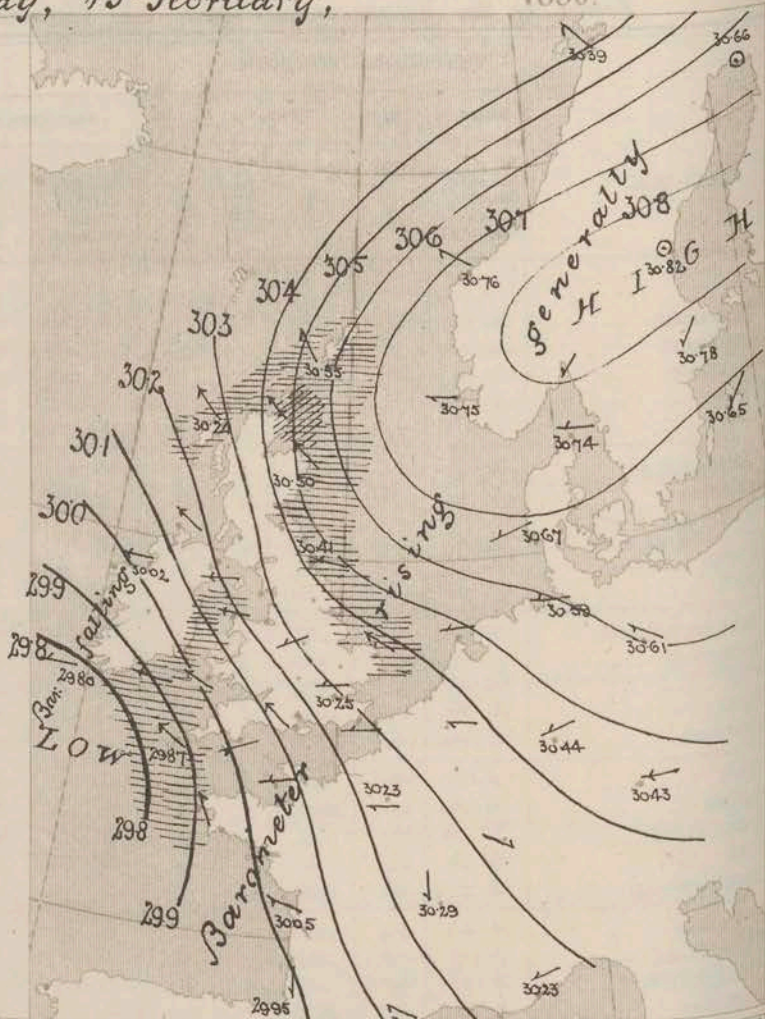
≡ = Rough. ≡ = High.

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

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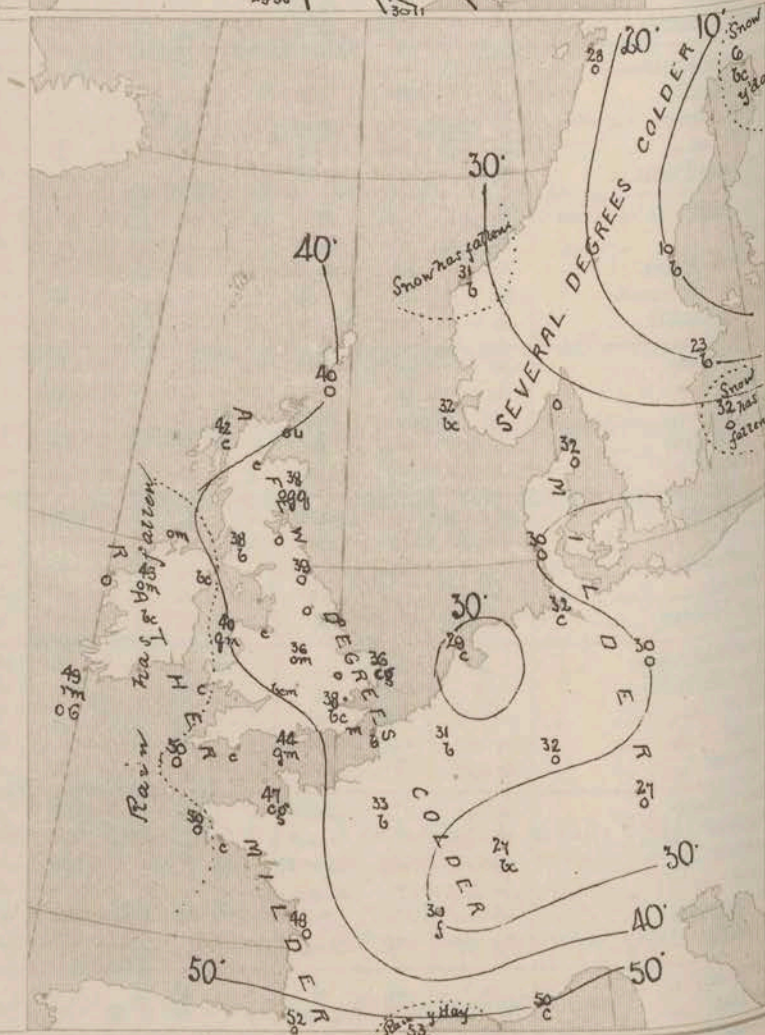
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STATIONS.	TEMPERATURE.				RAINFALL (Inches.)
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NOTE.—The Temperature means are for the 15 years 1871-85, the Rainfall means are mainly those for the 20 years 1866-85.



GENERAL SITUATION AT 8 A.M.

PRESSURE

Highest, 30.7 ins. to 30.8 ins. in an anticyclone still lying over Scandinavia.
 Lowest, 29.8 ins. and less, off the southwest coast of Ireland.
 Gradient rather steep over our Islands, but slight over the North Sea and Norway, and Sweden.
 Barometer falling in the south of Ireland, rising elsewhere, most over Scandinavia.

TEMPERATURE

Highest, 53° at Perpignan, 52° at Biarritz, 50° at Brest, and Nice, 49° at Valencia, and 47° at Rochefort.
 Lowest, 6° at Haparanda, 10° at Helsingfors, 23° at Stockholm, 27° at Riga and Munich, 28° at Rode and 30° at Lyons.
 It has risen in Ireland and over the Bay of Biscay, but fallen somewhat in most other places.

WIND

Fresh or strong from SE. and E. (blowing a gale at Brest) over the whole of our Islands, and the greater part of France and Germany, but light from the same direction in Norway.
 Over Sweden calms and light NE. breezes are reported.

WEATHER

Dull in Ireland and the north of Scotland, with rain at Valencia, but fair or dry in most other places.
 Rain has fallen in Ireland and some parts of France, and snow at some of the Scandinavian stations during the past 24 hours.

SEA

Very high at Brest, rough in the North Sea generally, and on our southwest coast, moderate elsewhere.

PROBABLE CHANGES IN SYSTEM NOW PREVALENT

As the barometer has commenced to fall in Ireland, while it continues to rise elsewhere the gradient for SE. winds will probably increase generally, especially over Ireland and Scotland.

FORECASTS

For the 24 hours ending at NOON on 20th FEB^{ry} 1890.

DISTRICTS.	FORECASTS.	DISTRICTS.	FORECASTS
0 SCOTLAND NORTH	SE. strong winds or gales; dull, squally.	6 SCOTLAND WEST	E. winds, strong and squally; fair generally.
1 SCOTLAND EAST		7 ENGLAND N.W.	
2 ENGLAND N.E.	E. and SE. winds, strong; fair generally.	8 ENGLAND S.W.	E. winds, strong; cloudy, perhaps some showers.
3 ENGLAND EAST		9 IRELAND NORTH	E. and SE. winds, strong; squally, some rain.
4 MIDLAND COUNTIES	E. winds, fresh or strong; fair generally.	10 IRELAND SOUTH	E. to SE. winds, strong or gale; squally, dull, some rain.
5 ENGLAND SOUTH			
		WARNINGS	The SOUTH CONE has been hoisted this morning in districts 0, 1, and 10.

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

YESTERDAY'S 2 P.M. REPORTS.

	THER:							THER:						
	BAR:	D.	W.	D.	F.	WEA.	SEA	BAR:	D.	W.	D.	F.	WEA.	SEA
Skudesnaes ...	30.67	36	32	E	2	0	4	Holyhead ...	30.05	45	43	E	5	bc
Sumburgh Head ...	30.50	40	38	SE	4	0	6	Valencia ...	29.82	51	49	ESE	4	o/p
Stornoway ...	30.20	44	44	SE	6	c	5	Scilly ...	29.82	51	49	ESE	6	om
Aberdeen ...	30.41	41	38	SE	6	ogg	7	Jersey ...	29.95	53	49	E	3	bc m
Shields ...	30.31	40	38	ESE	5	o	6	Dungeness ...	30.10	48	45	ESE	4	bc
Ardrossan ...	30.20	43	41	NE	3	om	2	London ...	30.13	46	43	ESE	3	c
Malin Head ...	30.05	44	42	SSE	5	0	3	Yarmouth ...	30.21	40	39	ESE	6	bc
Mullaghmore ...	29.99	46	44	E	5	om	4	Rochefort ...	29.91	59	54	ESE	5	c
Belmullet ...	29.94	47	45	ESE	4	c	*							

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

Weather fine and bright in several parts of Algeria, France, Germany, Denmark and Norway, and in the east of England, cloudy, more or less, elsewhere, and showery at several of our western stations, rain still falling at Perpignan. Rainfall considerable at Valencia later, but slight at our other western stations; slight snow in various parts of Scandinavia.

Temperature varying from 50° to 59° at 8 am. over the southern and eastern part of the Mediterranean, and exceeding 40° over all the western parts of the United Kingdom and France; below the freezing point over northern, eastern, central, and southeastern parts of Europe, and as low as 1° F. at Moscow, 3° at Hermannstadt, 5° at Kiev, 6° at Kharkov, 13° at Archangel, and St. Petersburg, 15° at Hangö and Uleå, 18° at Munich, 27° at Berlin. Rising to 64° at Biarritz, 58° at Paris, 55° at Jersey, 52° at Valencia, and 47° in London later.

Wind continuing SE³ to E³ over the British Isles, the North Sea, Bay of Biscay and Spain, fresh to strong in most places, and a gale at Wick, but light to moderate over the south of England and on the eastern shores of the North Sea. Very light and variable over Northern, Eastern, and Central Europe, E³ fresh to strong over the northern parts of the Mediterranean. No important change later.

Barometer highest 30.6 in. to 30.9 in. in a large anticyclone covering Russia, and 30.5 in. to 30.6 in. in a secondary system lying over Scandinavia. Lowest 29.8 in. and less, in a low pressure area lying off the coast of Northern Europe, and as low as 29.6 in. at Genua. Raining a little in most places later, but scarcely any alteration observed in the relative distribution of pressure.

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 20th February.

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.		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 ...	30.66	12	Z	0	C	30.67	+0.01	3	3	-3	Z	0	bc	*	19	3	-	
Hernösand ...	30.77	21	Z	0	0	30.73	-0.09	17	16	+7	Z	0	bc	*	37	9	-	
Stockholm ...	30.77	28	E	2	0	30.73	-0.05	27	25	+4	E	2	0	*	30	19	-	
Wisby ...	30.66	29	E	4	C	30.63	-0.02	24	23	-1	E	4	bc	*	34	1	-	
Bodö ...	30.77	32	ESE	2	0	30.55	+0.16	32	30	+4	ENE	2	C	1	32	25	-	
Christiansund ...	30.72	32	ESE	1	bc	30.53	-0.23	34	31	+3	WSE	2	C	2	36	32	-	
Skudesnaes ...	30.70	33	ESE	4	bc	30.54	-0.21	32	28	0	SE	4	0	4	39	32	-	
Christiania Fjord (Færder)	30.76	30	NE	5	C	30.61	-0.18	29	27	-2	NE	5	0	1	32	28	-	
Skagen (The Scaw)	30.65	31	ESE	2	0	30.54	-0.20	30	29	-2	E	2	0	1	34	30	-	
Fanö ...	30.58	30	E	4	0	30.41	-0.26	27	25	-3	ENE	4	bc	*	32	27	-	
Sumburgh Head	30.52	38	SE	6	0	30.30	-0.25	37	35	-3	SE	6	0	7	41	36	0.03	
Stornoway ...	30.15	43	SE	6	C	30.04	-0.20	41	41	-1	S	6	P	5	46	39	0.03	
Wick ...	30.40	41	SE	8	0	30.18	-0.28	39	38	-2	SE	8	ou	8	41	37	0.01	
Nairn ...	30.33	38	ESE	2	C	30.11	-0.26	37	35	-2	Z	0	C	1	43	36	-	
Aberdeen ...	30.45	38	NE	6	ogg	30.24	-0.26	36	35	-2	SE	5	ogpky	6	39	36	0.03	
BRITISH ISLANDS.																		
Leith ...	30.34	38	E	4	0	30.17	-0.22	37	35	-3	E	2	0	*	40	34	-	
Shields ...	30.37	38	ESE	5	0	30.20	-0.21	36	34	-3	ESE	4	0	6	39	35	-	
Spurn Head ...	30.28	37	ESE	7	0	30.15	-0.20	36	35	-2	ESE	6	om	5	38	35	-	
York ...	30.35	36	E	3	0	30.18	-0.20	35	34	-3	E	2	0	*	39	34	-	
Loughborough	30.29	36	E	4	0	30.15	-0.15	34	33	-2	ESE	3	ogm	*	38	34	-	
Ardrossan ...	30.21	38	NE	5	0	30.08	-0.19	34	34	-4	NE	2	pm	2	42	34	0.07	
Malin Head ...	30.05	42	SE	5	om	29.96	-0.09	39	38	-3	SE	5	og	2	45	39	0.05	
Mullaghmore ...	29.55	45	SE	7	ogpm	29.90	-0.12	46	44	+3	SE	6	C	4	47	42	0.01	
Belmullet ...	29.89	46	S	5	C	29.85	-0.08	45	44	+1	SE	5	0	*	48	42	0.04	
Donaghadee ...	30.15	43	E	5	0	30.07	-0.13	39	39	-3	ESE	5	P	3	45	39	0.25	
Liverpool (Bidston)	30.20	37	E	5	0	30.09	-0.12	33	33	-5	ESE	3	P	3	43	33	0.06	
Holyhead ...	30.12	42	E	4	omg	30.06	-0.06	40	40	0	ESE	1	pmg	2	44	40	0.41	
Parsonstown ...	29.97	47	SE	2	0	29.94	-0.02	45	44	0	SE	1	C	*	47	44	0.07	
Valencia ...	29.90	48	ESE	6	0	29.88	+0.02	47	46	-2	S	5	P	4	51	44	0.47	
Roche's Point...	29.97	47	S	4	bc	29.94	+0.06	47	45	0	S	3	bcP	4	50	46	0.10	
Pembroke (St. Ann's Hd.)	30.08	45	SE	6	P	30.04	+0.03	41	41	-2	ESE	4	om	4	45	40	0.10	
Scilly ...	30.04	49	SE	4	C	29.99	+0.12	49	49	-1	SE	4	0	4	51	47	0.01	
Prawle Point ...	30.11	47	E	3	C	30.09	+0.05	43	43	-3	NE	2	omg	1	48	42	0.27	
Jersey (St. Aubin's)	30.09	54	SE	1	Cg	30.08	+0.02	48	46	+1	Z	0	omP	0	56	46	0.05	
Hurst Castle ...	30.16	40	ESE	4	0	30.08	-0.07	42	40	-2	ENE	3	omd	2	46	40	0.03	
Dungeness ...	30.20	43	ENE	4	m	30.10	-0.12	39	37	0	ESE	3	C	2	45	38	-	
London ...	30.24	39	ESE	3	C	30.10	-0.15	37	36	-1	ENE	2	og	*	43	36	-	
Oxford ...	30.23	36	E	2	C	30.12	-0.12	36	36	0	NE	1	og	*	47	33	0.01	
Cambridge ...	30.28	38	E	2	bc	30.14	-0.17	36	36	-1	E	1	0	*	41	30	-	
Yarmouth ...	30.30	37	ESE	6	Cg	30.16	-0.17	35	34	-1	ESE	6	Cg	5	37	33	-	
GERMANY & HOLLAND.																		
Cuxhaven ...	30.53	31	E	4	C	30.39	-0.20	30	29	-2	E	4	bc	*	32	27	-	
Berlin ...	30.54	28	SE	2	bc	30.40	-0.21	23	22	-7	ESE	2	bc	*	30	23	-	
Wiesbaden ...	*	*	*	*	*	30.25	-0.19	28	27	-4	NE	4	bc	*	37	27	-	
Munich ...	30.34	23	E	3	bc	30.23	-0.20	21	21	-6	E	5	m	*	30	18	-	
The Helder ...	30.41	30	E	4	0	30.27	-0.19	28	27	-1	E	2	C	3	32	27	-	
FRANCE AND BELGIUM.																		
Brussels (0 a.m.)	*	*	*	*	*	30.19	-0.15	28	28	-3	E	2	C	*	42	27	-	
Cape Gris Nez	*	40	E	4	bc	?	?	33	31	-1	SE	3	C	3	46	32	-	
Paris ...	30.21	41	ENE	2	0	30.13	-0.10	30	30	-3	ESE	1	bc	*	49	29	-	
Brest ...	30.13	53	Z	0	0	30.04	+0.14	45	44	-5	E	2	0	1	52	41	0.04	
Lorient ...	30.06	48	SE	1	0	30.10	+0.14	47	46	+1	Z	0	0	2	52	45	0.08	
Rochefort ...	30.11	53	E	2	0	30.14	+0.09	48	47	0	E	2	0	2	61	41	-	
Belfort ...	30.22	32	N	1	C	30.10	-0.18	30	23	+3	N	1	bc	*	35	26	-	
Lyons ...	30.21	42	E	1	bc	30.18	-0.11	31	31	+1	NE	1	bc	*	49	30	-	
Nice ...	30.13	51	E	6	bc	30.04	-0.19	32	44	+2	ENE	4	C	4	57	46	-	
Perpignan ...	30.06	54	SE	1	0	30.08	-0.03	30	30	-3	W	1	P	*	57	49	0.20	
Biarritz ...	30.04	52	W	3	0	30.14	+0.19	51	50	-1	S	5	T	3	57	48	0.16	
Corunna ...	*	*	*	*	*	30.16	+0.25	46	44	+5	NE	2	0	3	53	?	-	
Lisbon ...	30.16	51	N	3	bc	30.24	+0.25	46	44	+5	NE	2	0	3	53	?	-	

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, 20th February,

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:

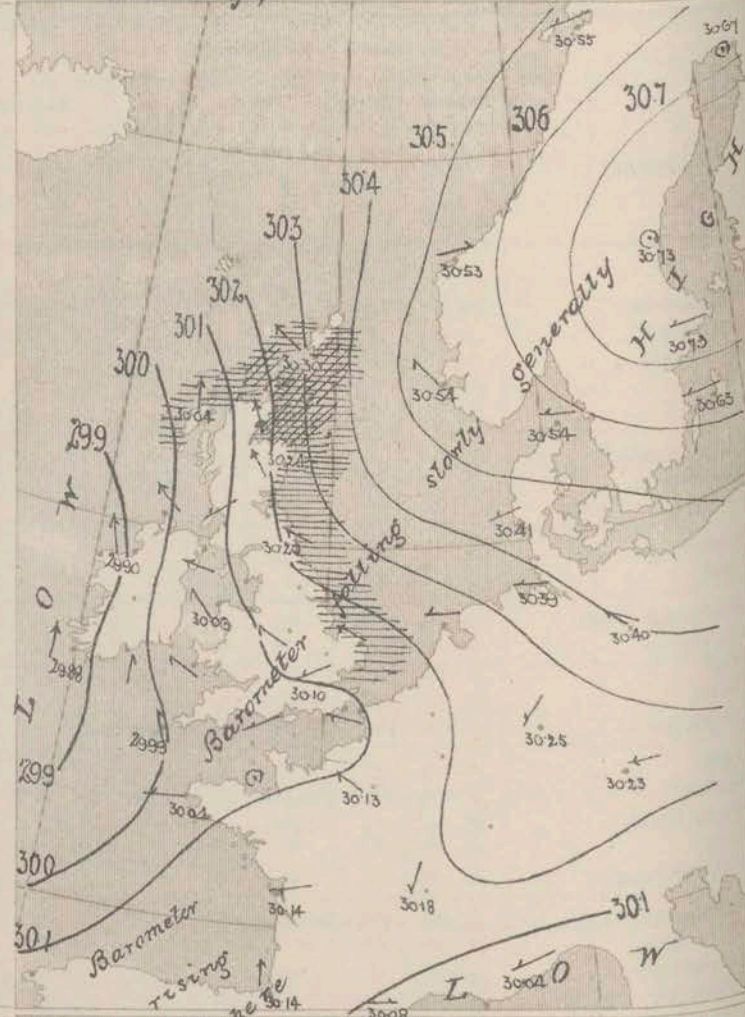
≡ = Rough. ≡ = High.

MEAN HEIGHT OF THE BAROMETER

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

During the 15 Years: 1871—1885.

STATIONS.	MEAN READINGS.
	ins.
Sumburgh Head	29.713
Stornoway	29.700
Wick	29.737
Nairn	29.747
Aberdeen	29.780
Leith	29.803
Shields	29.847
York	29.884
Loughborough	29.912
Ardrossan	29.905
Donaghadee	29.812
Holyhead	29.848
Liverpool	29.873
Parsonstown	29.884
Valencia	29.850
Roche's Point	29.850
Pembroke	29.875
Scilly	29.911
Jersey	29.975
Hurst Castle	29.944
Dover	29.957
LONDON	29.949
Oxford	29.938
Cambridge	29.935
Yarmouth	29.928



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

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

WEATHER is shown by Letters of the Beaufort Scale.

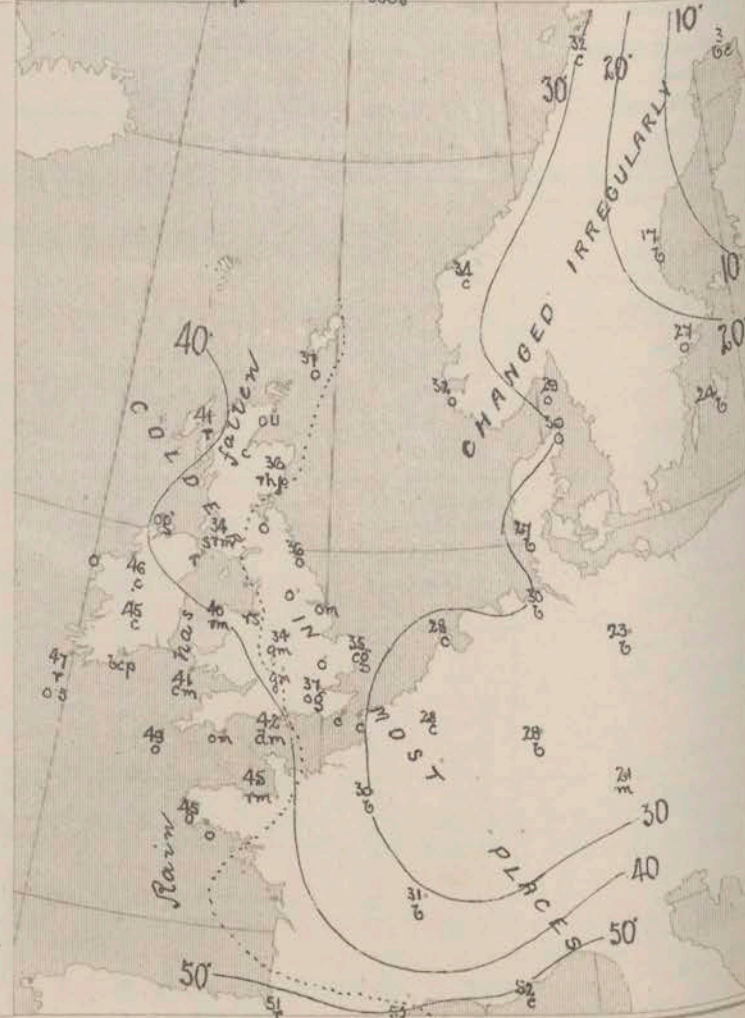
RAINFALL—A dotted line separates the districts in which rain has fallen from those where there has been none. Falls of 0.5 in. or more, are quoted in figures.

MEANS OF TEMPERATURE IN SHADE, AND RAINFALL.

(For the month of February.)

STATIONS.	TEMPERATURE.				RAINFALL (Inches.)
	Daily	Daily	at 8 a.m.		
	Max.	Min.	Dry.	Wet.	
Sumburgh Head.....	42.6	34.7	38.7	37.7	3.29
Stornoway	43.5	34.7	39.3	38.2	3.97
Wick	43.4	33.5	38.4	37.0	2.02
Nairn	43.4	33.8	37.4	35.7	1.51
Aberdeen	43.5	34.2	37.8	36.2	2.51
Leith	46.6	34.7	39.2	37.7	1.58
Shields	44.3	35.7	39.2	37.9	1.63
York	45.3	34.2	38.2	37.1	1.88
Loughborough	46.0	34.5	38.4	37.3	2.00
Ardrossan	45.0	36.7	40.0	38.6	3.47
Donaghadee.....	45.8	37.0	40.7	39.7	2.71
Holyhead.....	46.1	39.3	42.3	40.8	2.90
Liverpool	45.3	36.9	39.9	38.3	1.85
Parsonstown	47.4	36.1	40.1	38.8	2.45
Valencia	50.2	40.8	45.1	43.4	5.29
Roche's Point	48.9	40.0	43.6	42.2	4.86
Pembroke.....	46.2	40.3	43.1	41.9	3.20
Scilly	49.7	43.7	46.9	45.3	2.88
Jersey	47.6	40.1	43.2	42.0	2.72
Hurst Castle	46.5	37.9	41.3	40.4	2.63
Dover	45.4	37.4	40.3	39.1	2.12
LONDON	46.9	36.0	39.7	38.6	1.89
Oxford	45.9	35.9	38.8	37.7	2.06
Cambridge	46.4	33.9	38.3	37.3	1.60
Yarmouth	43.5	35.2	38.9	38.2	2.02

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, 30.7 in: and more, in an anticyclone lying over Scandinavia and the Baltic, and 30.2 in: and more over Spain.
Lowest, 29.8 in: and less, off the west of Ireland, and 30.0 in: and less, over the Gulf of Lion.
Gradients are less steep over our Islands than they were yesterday, and remain slight to the eastward of the North Sea.
Barometer rising over Spain and the south of France, falling elsewhere.

TEMPERATURE

Highest, 52° at Nise, 50° at Perpignan, 49° at Scilly, 48° at Rochefort, 47° at Tiberias, Roches Point and Lorient, and 46° at Mullaghmore.
Lowest, 3° at Naparanda, 1° at Hornsund, 2° at Berlin, 24° at Nisby, 24° at Stockholm and Tani, and 25° at Kelder, Burrells, and Tiberias.
 It has risen at some of the Continental stations since yesterday, but fallen in most other places.

WIND

Strong from SE and S. in Scotland and Ireland (still blowing a gale at Wick), fresh from the E. at most of the English stations, but light to moderate in force from the same direction on the Continent.

WEATHER

Fine over Sweden, Denmark, Germany, and the east of France, but dull or cloudy over our Islands and the west of France, with rain at some of the northern and eastern stations and at Oxford, Hunt Castle, Jersey, and Perpignan.
 Rain has fallen during the past 24 hours in most parts of the Kingdom.

SEA

Still high off the northeast of Scotland, rough in the North Sea generally, moderate elsewhere.

PROBABLE CHANGES IN SYSTEM NOW PREVALENT

Depressions are still travelling to the northeastward outside our western coasts, and, as pressure remains high over Scandinavia SE winds fresh or strong in force will continue at most of the northern and western stations. The local depression in the south appears likely to cause cold rain or sleet over most of the southern and eastern districts of England.

FORECASTS

For the 24 hours ending at NOON on 21st Feby 1890.

DISTRICTS.

FORECASTS.

0	SCOTLAND NORTH	S. and SE. winds, strong or a gale; dull, squally, some showers.
1	SCOTLAND EAST	
2	ENGLAND N.E.	E. and SE. winds, strong; dull, unsettled, some showers.
3	ENGLAND EAST	
4	MIDLAND COUNTIES	Varying E. breezes, moderate or fresh; dull, unsettled, some cold showers.
5	ENGLAND SOUTH	

DISTRICTS.

FORECASTS

6	SCOTLAND WEST	E. and SE. winds, fresh; dull, some rain.
7	ENGLAND N.W.	
8	ENGLAND S.W.	S. and SE. winds, fresh; dull, some rain.
9	IRELAND NORTH	
10	IRELAND SOUTH	S. and SE. winds, strong; squally, some showers.

WARNINGS

The SOUTH CONE is still flying in districts 0, 1 and 10.

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

YESTERDAY'S 2 P.M. REPORTS.

THER: WIND								THER: WIND							
BAR:	D.	W.	D.	F.	WEA.	SEA		BAR:	D.	W.	D.	F.	WEA.	SEA	
Skudesnaes ...	30.76	37	38	ESE	4	C	3	Holyhead ...	30.10	43	41	E	6	cmg	6
Sumburgh Head	30.54	37	36	SE	5	O	6	Valencia ...	29.82	47	45	SW	7	om	5
Stornoway ...	30.20	46	45	SE	6	C	5	Scilly ...	29.98	51	50	SE	6	O	3
Aberdeen ...	30.47	39	36	SE	6	ogg	6	Jersey ...	30.09	53	50	ESE	3	bc	3
Shields ...	30.38	38	36	ESE	5	O	6	Dungeoess ...	30.20	45	41	E	4	m	3
Ardrrossan ...	30.22	42	41	NE	6	C	3	London ...	30.23	43	40	E	4	C	5
Malin Head ...	30.04	44	40	SE	6	om	3	Yarmouth ...	30.32	37	36	ESE	6	cg	5
Mullaghmore ...	29.95	46	43	E	7	mg	5	Rochefort ...	30.11	59	56	SE	3	fo	2
Belmullet ...	29.86	48	45	ESE	6	ofu	*								

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

Weather fine in many parts of Great Britain and France as well as in Scandinavia the Netherlands, and Italy. Cloudy or overcast elsewhere, with mist or fog locally, rain at Valencia, snow at Lemberg.

Temperature highest, 50° to 55° and upwards at the Mediterranean stations (Laballe 60° , Malta 59° , Cagliari 58°). Lowest, -14° F. at Moscow; low, 20° or less, at most of the Russian and Swedish stations; below the freezing point over the whole of northern, eastern and central Europe.

Wind E^r or SE^r in nearly all parts of Western Europe, strong in force in many parts of ^{the} British Islands with a gale at N. W. light or moderate from the NE^{and} over the Baltic, Germany, and the greater part of Southern Europe. Variable at the Russian stations, as well as in Algeria.

Barometer, highest 30.8 in: and upwards, over the Central parts of Sweden and Russia, high 30.5 in: and upwards, over the whole of northern and eastern Europe. Lowest 29.8 in: and less in a large depression lying off the south of Ireland; low, 29.9 in: and less, in a smaller disturbance lying near Algiers. Gradients rather steep over the western and northern parts of the 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 Friday 21st February. 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 1.)	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 ...	30.53	15	2	0	o	30.52	-15	19	19	+16	S	2	c	*	?	0	—	
Hernösand ...	30.68	21	2	0	o	30.62	-11	25	24	+8	S	2	o	*	32	16	—	
Stockholm ...	30.64	27	E	2	o	30.54	-15	27	27	0	E	2	o	*	30	23	—	
Wisby ...	30.58	27	E	4	o	30.48	-15	24	23	0	SE	4	bc	*	30	23	—	
Bodö ...	30.50	33	E	2	bc	30.43	-12	30	27	-2	E	2	bc	1	36	27	—	
SCANDINAVIA.																		
Christiansund ...	30.44	33	SEW	1	c	30.38	-15	31	28	-3	SESE	3	o	2	36	30	—	
Skudesnaes ...	30.43	32	SE	2	c	30.34	-20	32	27	0	SESE	6	o	4	36	32	—	
Christiania Fjord (Færdier) ...	30.51	30	NNE	5	o	30.43	-18	27	26	-2	ENE	5	o	2	30	27	—	
Skagen (The Scaw) ...	30.38	30	SE	3	o	30.31	-23	29	28	-1	SE	2	o	2	30	28	—	
Fanö ...	30.30	28	ENE	4	o	30.24	-17	28	27	+1	ENE	4	o	*	32	27	—	
SCANDINAVIA.																		
Sumburgh Head ...	30.20	36	SE	6	o	30.12	-18	38	26	+1	SE	5	o	6	39	36	0.04	
Stornoway ...	29.96	39	S	5	T	29.98	-16	42	42	+1	S	5	o	4	42	37	0.20	
Wick ...	30.10	39	SE	3	o	30.25	-13	39	38	0	S	5	o	6	40	35	0.05	
Nairn ...	30.04	36	2	0	T	30.01	-10	37	35	0	2	0	c	1	40	34	0.10	
Aberdeen ...	30.14	37	SE	6	0.25	30.11	-13	37	36	+1	SEW	3	odm	6	39	36	0.06	
SCANDINAVIA.																		
Leith ...	30.10	33	E	1	o	30.11	-06	34	34	-3	NW	1	2	*	37	31	0.12	
Shields ...	30.11	35	SE	3	TP	30.12	-07	35	34	-1	SE	2	2	4	37	33	0.15	
Spurn Head ...	30.08	35	ENE	4	T	30.13	-02	37	35	+1	NW	2	cm	3	37	34	0.02	
York ...	30.12	35	E	1	m	30.15	-03	34	34	-1	SE	1	m	*	37	33	0.10	
Loughborough ...	30.10	36	E	1	o	30.15	0.0	36	35	+2	SESE	1	f	*	36	33	0.09	
SCANDINAVIA.																		
Ardrossan ...	30.05	37	NNE	2	o	30.09	+01	35	35	+1	NNE	1	om	1	37	33	0.13	
Malin Head ...	29.89	42	SE	5	om	30.02	+06	40	39	+1	S	3	o	1	45	39	—	
Mullaghmore ...	29.90	47	S	2	bc	30.05	+15	40	39	-6	2	0	c	2	50	39	0.01	
Belmullet ...	29.88	45	SW	2	o	30.05	+20	43	42	-2	SW	2	o	*	51	40	0.04	
Donaghadee ...	30.00	42	SE	3	o	30.08	+08	35	35	-4	SW	3	c	1	42	34	0.29	
SCANDINAVIA.																		
Liverpool (Bidston) ...	30.05	37	ENE	3	o	30.12	+03	36	35	+3	SE	1	c	2	39	33	0.09	
Holyhead ...	30.02	45	SE	1	om	30.11	+05	42	42	+2	SW	1	cm	2	47	40	0.02	
Parsonstown ...	29.92	46	2	0	c	30.07	+13	39	38	-6	2	0	o	*	54	34	0.02	
Valencia ...	29.96	48	SW	1	c	30.00	+12	46	45	-1	SE	2	o	2	52	41	0.13	
Roche's Point ...	29.97	47	SW	3	c	30.07	+13	47	45	0	SW	4	o	4	52	43	0.01	
SCANDINAVIA.																		
Pembroke (St. Ann's Hd.) ...	30.03	44	SE	2	m	30.13	+09	41	41	0	E	1	f	3	45	39	0.02	
Silly ...	30.04	48	W	3	c	30.09	+10	48	47	-1	SE	4	bc	4	54	44	—	
Prawle Point ...	30.06	44	ENE	2	o	30.12	+03	43	42	0	NNE	2	bc m	1	48	40	—	
Jersey (St. Aubin's) ...	30.07	44	ENE	2	om	30.17	+09	39	37	-3	NNE	1	f	3	44	37	0.01	
Hurst Castle ...	30.07	44	ENE	2	om	30.17	+09	39	37	-3	NNE	1	f	3	44	37	0.01	
SCANDINAVIA.																		
Dungeness ...	30.04	40	SE	1	T	30.13	+03	36	35	-3	NW	2	m	1	42	34	0.10	
London ...	30.09	39	SE	1	om	30.15	+05	35	34	-2	2	0	f	*	40	35	—	
Oxford ...	30.11	38	NNE	1	o	30.17	+05	36	36	0	2	0	f	*	39	35	0.03	
Cambridge ...	30.10	37	E	1	o	30.18	+04	35	34	-1	N	1	o	*	39	33	0.04	
Yarmouth ...	30.10	36	SE	4	om	30.12	+04	37	36	+2	NW	2	of	4	37	33	0.05	
SCANDINAVIA.																		
Cuxhaven ...	30.28	28	E	4	o	30.21	-18	26	25	-4	ENE	3	bc	*	?	23	—	
Berlin ...	30.29	28	ENE	4	c	30.25	-15	24	?	+1	ENE	3	bc	*	30	23	—	
Wiesbaden ...	30.13	21	SE	2	c	30.17	-08	26	25	-2	NNE	2	bc	*	37	25	—	
Munich ...	30.13	21	SE	2	c	30.15	-08	16	16	-5	NW	4	f	*	28	16	—	
The Helder ...	30.15	30	E	2	c	30.12	-15	30	29	+2	E	1	f	1	32	28	—	
SCANDINAVIA.																		
Brussels (9 a.m.) ...	?	?	?	?	?	30.12	-07	38	36	+10	SW	2	o	*	43	?	—	
Cape Gris Nez ...	?	41	NNE	1	c	?	?	38	37	+5	N	3	f	3	45	?	0.04	
Paris ...	30.08	48	SE	1	bc	30.12	-01	38	38	+8	NNE	1	o	*	54	?	0.04	
Brest ...	30.08	52	WNW	1	c	30.15	+11	45	44	0	2	0	bc	2	57	41	0.04	
Lorient ...	30.09	50	W	2	bc	30.17	+07	41	41	-6	ENE	1	f	4	52	39	—	
SCANDINAVIA.																		
Rocheport ...	30.19	48	WNW	2	o	30.23	+09	46	45	-2	NW	2	bc	2	55	48	—	
Belfort ...	30.06	29	SW	1	c	30.08	-02	25	17	-8	SW	4	m	*	41	22	—	
Lyons ...	30.12	43	W	1	bc	30.17	-01	34	34	+3	W	1	m	*	49	?	—	
Nice ...	30.02	54	NNE	2	o	30.08	+04	46	44	-6	E	2	bc	1	61	45	—	
Perpignan ...	30.11	54	NW	2	o	30.15	+07	50	44	0	NW	4	o	*	56	47	0.12	
Biarritz ...	30.22	48	S	2	T	30.25	+11	48	45	-3	WSW	5	o	*	54	45	0.32	
SCANDINAVIA.																		
Corunna ...	30.34	?	NNW	4	c	30.34	+10	47	45	+1	NNE	3	bc	?	59	46	—	
Lisbon ...	30.34	?	NNW	4	c	30.34	+10	47	45	+1	NNE	3	bc	?	59	46	—	

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

Friday, 21st February,

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 tails and feathers refer to force thus—

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

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

⊙ = dead calm.

SEA DISTURBANCE—Where considerable, is shown thus:

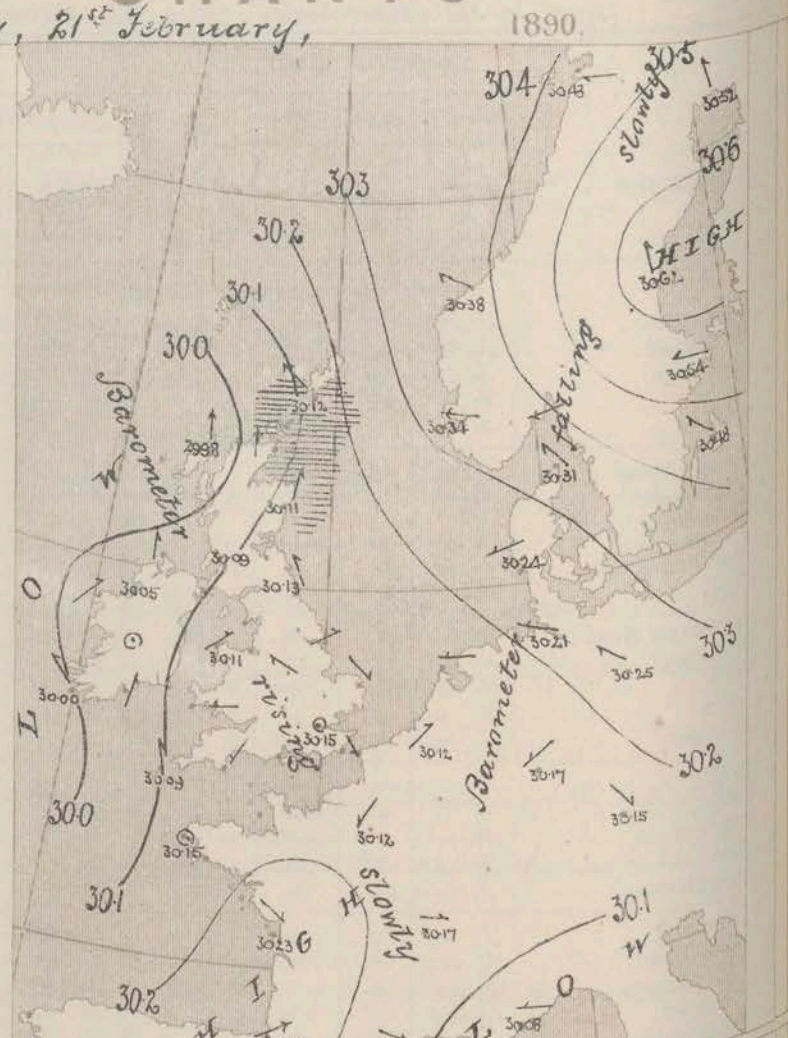
≡≡≡ Rough. ≡≡≡ High.

MEAN HEIGHT OF THE BAROMETER

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

During the 15 Years: 1871—1885.

STATIONS.	MEAN READINGS.
	ins.
Sumburgh Head	29.713
Sternoway	29.700
Wick	29.737
Nairn	29.747
Aberdeen	29.780
Leith	29.803
Shields	29.847
York	29.884
Loughborough	29.912
Ardrossan	29.905
Donaghadee	29.812
Holyhead	29.848
Liverpool	29.873
Parsonstown	29.834
Valencia	29.850
Roche's Point	29.850
Pembroke	29.875
Scilly	29.911
Jersey	29.975
Hurst Castle	29.944
Dover	29.957
LONDON	29.949
Oxford	29.938
Cambridge	29.935
Yarmouth	29.928



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

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

WEATHER is shown by Letters of the Beaufort Scale.

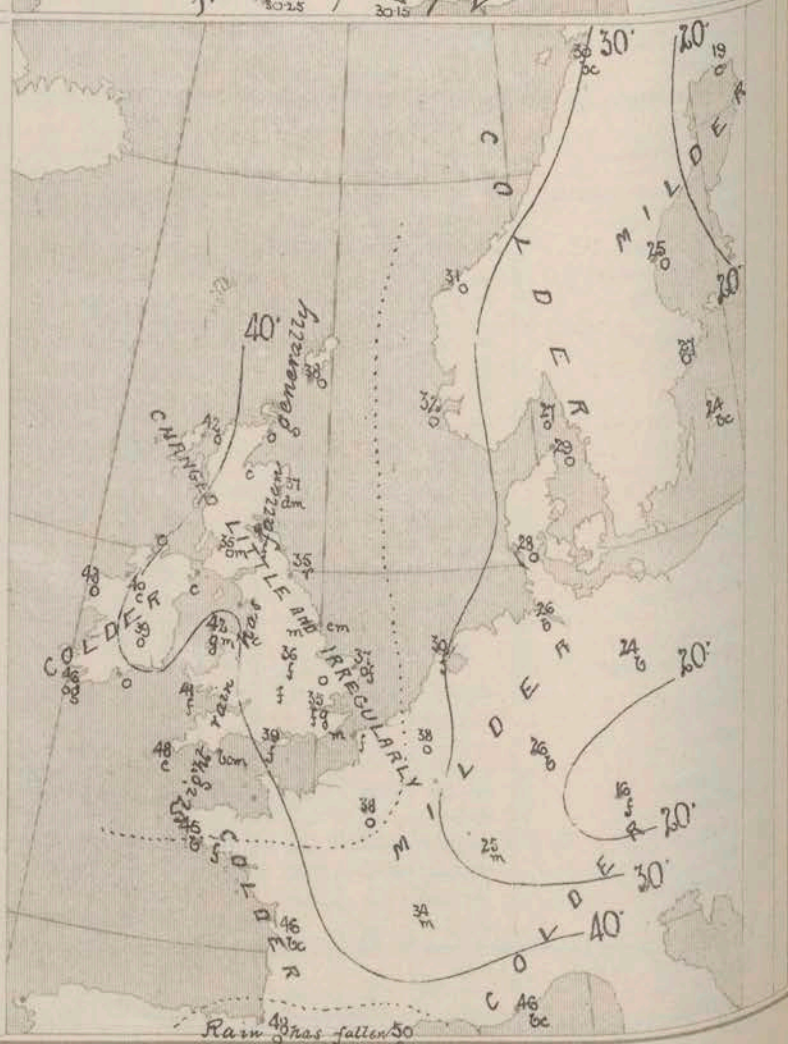
RAINFALL—A dotted line separates the districts in which rain has fallen from those where there has been none. Falls of 0.5 in. or more, are quoted in figures.

MEANS OF TEMPERATURE IN SHADE, AND RAINFALL.

(For the month of February.)

STATIONS.	TEMPERATURE.				RAINFALL. (Inches.)
	Daily	Daily	at 8 a.m.		
	Max.	Min.	Dry.	Wet.	
Sumburgh Head.....	42.6	34.7	38.7	37.7	3.29
Sornoway	43.5	34.7	39.3	38.2	3.97
Wick	43.4	33.5	38.4	37.0	2.02
Nairn	43.4	33.8	37.4	35.7	1.51
Aberdeen	43.5	34.2	37.8	36.2	2.51
Leith	45.6	34.7	39.2	37.7	1.58
Shields	44.3	35.7	39.2	37.9	1.63
York	45.3	34.2	38.2	37.1	1.88
Loughborough	46.0	34.5	38.4	37.3	2.00
Ardrossan	45.0	36.7	40.0	38.5	3.47
Donaghadee.....	45.8	37.0	40.7	39.7	2.71
Holyhead.....	46.1	39.3	42.3	40.8	2.90
Liverpool	45.3	36.9	39.9	38.3	1.85
Parsonstown	47.4	36.1	40.1	38.8	2.45
Valencia	50.2	40.8	45.1	43.4	5.29
Roche's Point	48.9	40.0	43.6	42.2	4.86
Pembroke.....	46.2	40.3	43.1	41.9	3.20
Scilly	49.7	43.7	46.9	45.3	2.98
Jersey	47.6	40.1	43.2	42.0	2.72
Hurst Castle	46.5	37.9	41.3	40.4	2.63
Dover	45.4	37.4	40.3	39.1	2.12
LONDON	46.9	36.0	39.7	38.6	1.89
Oxford	45.9	35.9	38.8	37.7	2.06
Cambridge	46.4	33.9	38.3	37.3	1.60
Yarmouth	43.5	35.2	38.9	38.2	2.02

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, 30.6 in. and more, in an anticyclone still lying over the east of Sweden and the Baltic, and 30.2 in. and more over Spain and the south of France.</p> <p>Lowest, 29.9 in. and less, off our west coast, and 30.0 in. and less, over the Gulf of Lion.</p> <p>Gradients slight generally.</p> <p>Barometer rising over our Islands, falling over Scandinavia and Germany.</p>
TEMPERATURE	<p>Highest, 50° at Reims, 48° at Bielefeld, 47° at Roches-Brunet, 46° at Valenciennes, Rochefort and Nice, and 45° at Brest.</p> <p>Lowest, 16° at Munich, 13° at Haparanda, 14° at Wetzlar, and Berlin, 25° at Stockholm and Belfast, 26° at Wiesbaden, 27° at Dresden, and 28° at Hamburg.</p> <p>It has fallen somewhat in Ireland and over Norway, but changed irregularly elsewhere.</p>
WIND	<p>Fresh from S. or SE. in the extreme north of our Islands, light or moderate from the S. in Ireland, E. over Scandinavia and North Germany, but light and variable at the English stations and over the greater part of France.</p>
WEATHER	<p>Fine and bright over Germany and in some parts of France, but cloudy or dull over our Islands generally, with rain at Aberdeen and Shields, and mist or fog at several of the English stations.</p> <p>Rain has fallen over the greater part of our Islands and in some part of France during the past 24 hours. In London the amount collected was not measurable.</p>
SEA	<p>Rough off the northeast of Scotland, moderate or slight elsewhere.</p>
PROBABLE CHANGES IN SYSTEM NOW PREVALENT	

The distribution of pressure appears to be becoming rather complex, but the general tendency is toward the formation of S. gradients over our Islands, with, perhaps, gradually improving weather.

FORECASTS

For the 24 hours ending at NOON on 22nd FEB^y 1890.

DISTRICTS.	FORECASTS.	DISTRICTS.	FORECASTS.
0 SCOTLAND NORTH	S. and SE. winds, fresh; dull, some rain locally.	6 SCOTLAND WEST	Varying S. breezes, light or moderate; cloudy, perhaps some rain.
1 SCOTLAND EAST		7 ENGLAND N.W.	
2 ENGLAND N.E.		8 ENGLAND S.W.	
3 ENGLAND EAST	S. winds, light or moderate; dull and misty, perhaps some rain.	9 IRELAND NORTH	
4 MIDLAND COUNTIES		0 IRELAND SOUTH	
5 ENGLAND SOUTH			
		WARNINGS	NONE ISSUED.

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

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

YESTERDAY'S 2 P.M. REPORTS.

	THER: WIND								THER: WIND							
	BAR:	D.	W.	D.	F.	WEA.	SEA		BAR:	D.	W.	D.	F.	WEA.	SEA	
Skudesnaes ...	30.49	35	30	SE	4	C	3	Holyhead ...	30.04	46	41	ESE	1	C	2	2
Sumburgh Head ...	30.23	36	35	SE	5	Thy	6	Valencia ...	29.93	53	48	SPW	5	bcn	5	5
Stornoway ...	29.77	41	41	S	5	Th	5	Scilly ...	30.00	52	51	WPN	2	b	3	3
Aberdeen ...	30.16	38	35	SE	6	075p	6	Jersey ...	30.01	50	48	SPSE	2	on	2	2
Shields ...	30.13	36	34	SE	4	0	5	Dungeness ...	30.05	42	40	SPSE	2	n	2	2
Ardrossan ...	30.07	37	36	NSE	2	on	1	London ...	30.01	40	35	E	1	ofg	4	4
Malin Head ...	29.92	42	41	SPSE	5	0	2	Yarmouth ...	30.11	36	34	ESE	5	ofg	4	4
Mullaghmore ...	29.81	50	46	SPSE	5	C	3	Rochefort ...	30.15	49	49	NW	3	0	3	3
Belmullet ...	29.86	51	47	SPW	3	bc	*									

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

Weather fine and bright over Sweden, Denmark, Germany, some parts of France and in some parts of Italy, dull or cloudy elsewhere, with rain at some of the Irish and Scotch stations, ^{and} in the south of England, as well as at some of the Mediterranean stations. Rain falling later over the United Kingdom.

Temperature, highest, 60° at Malta, 50° to 56° at the Mediterranean stations generally, 45° to 49° on the west coasts of Great Britain and 41° at Stornoway. Lowest, 1° at Moscow, 3° at St. Petersburg, and Kharkov, 13° at Uleaborg, and 14° at Mirel and Kiev; below the freezing ^{point} over the whole of Northern, Eastern, and Central Europe.

Wind strong from SE. and S. at the Irish and Scotch stations (blowing gale at Wick) fresh from E. over England, and light from the NWnd in the north of France. Over the greater part of the Continent, light or moderate E³ breezes were reported, and variable cyclonic winds over the Mediterranean.

Barometer, highest, 30.8 ins. and upwards over Central Russia, high 30.5 ins. and more, over Scandinavia and Western Europe, lowest 29.8 ins. and less, in a depression lying off the west of Ireland, and also in a small disturbance between Sicily and Sicily. Gradients less steep over the United Kingdom later, and wind becoming light and variable at the English stations.

EXPLANATION OF COLUMNS GIVEN ON PAGE 1.

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

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

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

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DAILY WEATHER REPORT.

for SATURDAY 22ND FEBRUARY. 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.	
			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 ...	30.58	16	E	0	o	30.57	+0.05	19	19	0	E	0	o	*	27	12	—	
Hernösand ...	30.57	26	E	2	o	30.53	-0.09	24	23	-1	ENE	2	o	*	28	19	0.00	
Stockholm ...	30.40	27	E	2	s	30.45	-0.09	28	27	+1	SE	2	o	*	30	25	0.04	
Wisby ...	30.42	27	SE	4	s	30.42	-0.06	31	31	+7	SE	4	o	*	2	19	—	
Bodö ...	30.42	28	E	2	b	30.38	-0.08	23	20	-7	E	2	b	1	34	21	—	
CHRISTIANIA.																		
Christiansund ...	30.36	33	S	2	C	30.38	0.00	30	28	-1	ESE	2	C	2	34	28	—	
Skudesnaes ...	30.38	31	NNE	2	b	30.48	+0.14	33	29	+1	SSE	2	o	2	36	25	—	
Christiania Fjord (Færder) ...	30.41	30	ENE	5	o	30.49	+0.08	26	25	-1	NNE	2	b	1	30	25	—	
Skagen (The Scaw) ...	30.38	30	ESE	2	o	30.43	+0.12	29	28	0	NE	3	o	3	32	28	—	
Fanø ...	30.27	29	NNW	2	o	30.39	+0.15	26	25	-2	NNW	2	b	*	30	25	—	
SCOTLAND.																		
Sumburgh Head ...	30.13	38	SSE	5	P	30.28	+0.16	42	40	+4	WNW	1	o	4	42	37	0.30	
Stornoway ...	30.10	43	SW	3	b	30.33	+0.35	40	40	-2	SW	1	o	3	48	35	0.05	
Wick ...	30.13	40	S	1	C	30.36	+0.31	39	38	0	NW	1	o	2	41	36	0.05	
Nairn ...	30.16	40	W	1	b	30.37	+0.36	40	38	+3	W	1	C	1	47	34	—	
Aberdeen ...	30.20	39	SSE	2	o	30.43	+0.32	32	31	-5	SW	1	b	4	40	31	0.01	
ENGLAND.																		
Leith ...	30.22	39	ESE	1	C	30.45	+0.34	36	34	+2	W	1	cm	*	40	33	—	
Shields ...	30.21	41	E	0	m	30.46	+0.33	32	32	-3	W	2	m	3	43	31	—	
Spurn Head ...	30.21	38	S	2	o	30.45	+0.32	37	37	0	NNW	2	b	3	41	35	—	
York ...	30.21	38	S	1	o	30.48	+0.33	35	35	+1	S	1	b	*	39	33	—	
Loughborough ...	30.22	41	SE	1	o	30.46	+0.31	38	38	+2	N	2	fg	*	45	36	—	
IRISH ISLANDS.																		
Ardrossan ...	30.20	40	NNE	1	o	30.45	+0.36	38	38	+3	NE	1	o	0	40	35	—	
Malin Head ...	30.17	44	SW	1	b	30.38	+0.36	40	40	0	S	2	o	2	49	37	—	
Mullaghmore ...	30.17	44	E	0	b	30.40	+0.35	45	44	+5	E	0	o	2	46	39	—	
Belmullet ...	30.14	48	SSE	2	C	30.39	+0.34	46	46	+3	SSE	2	o	*	52	42	—	
Donaghadee ...	30.20	44	SW	2	b	30.43	+0.35	42	42	+7	ESE	3	m	1	50	35	0.01	
BRITISH ISLANDS.																		
Liverpool (Bidston) ...	30.23	43	WNW	1	b	30.49	+0.35	37	37	+1	SSE	1	f	1	48	36	—	
Holyhead ...	30.22	45	WNW	1	o	30.44	+0.33	39	39	-3	E	0	cm	0	49	39	—	
Parsonstown ...	30.16	46	E	0	o	30.40	+0.33	43	42	+4	E	0	C	*	47	38	0.14	
Valencia ...	30.13	50	SE	2	o	30.39	+0.39	49	47	+3	SE	2	o	3	50	45	0.03	
Roche's Point ...	30.14	47	S	1	o	30.40	+0.33	47	45	0	S	1	C	3	49	45	0.06	
SCOTLAND.																		
Pembroke (St. Ann's Hd.) ...	30.22	45	SE	2	o	30.44	+0.31	42	41	+1	ESE	2	cm	4	47	41	—	
Scilly ...	30.17	49	SSE	4	b	30.39	+0.30	49	49	-1	E	0	C	6	53	45	—	
Prawle Point ...	30.23	45	E	2	o	30.41	+0.30	42	41	-1	NE	3	b	1	46	41	—	
Jersey (St. Aubin's) ...	30.23	43	SW	1	f	30.43	+0.26	42	40	+3	ENE	3	m	2	44	37	—	
Hurst Castle ...	30.23	43	SW	1	f	30.43	+0.26	42	40	+3	ENE	3	m	2	44	37	—	
ENGLAND.																		
Dungeness ...	30.21	38	N	2	m	30.38	+0.25	41	38	+5	ESE	3	b	2	41	35	?	
London ...	30.24	38	SE	1	ogf	30.43	+0.28	38	38	+3	NE	1	ogf	*	39	35	—	
Oxford ...	30.28	42	E	0	o	30.46	+0.29	38	38	+2	NE	1	ogf	*	44	34	—	
Cambridge ...	30.25	37	E	0	o	30.47	+0.29	35	35	0	E	0	ogf	*	38	32	—	
Yarmouth ...	30.21	39	NNE	1	C	30.43	+0.31	39	38	+2	NNE	2	b	3	40	35	—	
GERMANY & HOLLAND.																		
Cuxhaven ...	30.17	32	ESE	3	C	30.33	+0.12	32	32	+6	ENE	2	o	*	3	?	—	
Berlin ...	30.24	31	SE	3	b	30.31	+0.06	25	24	+1	SE	3	b	*	37	23	—	
Wiesbaden ...	30.15	25	SW	*	*	30.29	+0.12	33	31	+7	E	0	o	*	34	?	—	
Munich ...	30.15	25	SW	2	f	30.23	+0.08	22	22	+6	N	1	f	*	34	?	—	
The Helder ...	30.23	35	NE	1	C	30.40	+0.28	35	34	+5	NNE	1	o	1	36	30	—	
FRANCE AND BELGIUM.																		
Brussels (9 a.m.) ...	?	39	NNW	2	f	30.40	+0.28	33	30	-5	NNE	3	o	*	42	32	—	
Cape Gris Nez ...	?	42	N	3	o	30.31	+0.19	36	34	-2	NNE	3	o	4	45	34	—	
Paris ...	30.20	42	N	3	o	30.31	+0.19	36	34	-2	NNE	3	o	*	44	36	0.04	
Brest ...	30.19	49	W	1	b	30.31	+0.16	43	41	-2	E	2	m	6	54	41	0.04	
Lorient ...	30.17	41	SW	1	f	30.31	+0.14	42	42	+1	NE	3	C	6	50	36	—	
SPAIN.																		
Rochefort ...	30.25	48	NNW	1	o	30.31	+0.08	43	43	-3	NNE	4	o	?	50	36	—	
Belfort ...	30.10	38	SW	1	b	30.18	+0.10	32	21	+7	SSE	1	o	*	46	22	—	
Lyons ...	30.19	41	N	1	o	30.21	+0.04	38	37	+4	N	2	o	*	43	?	—	
Nice ...	30.10	48	SW	3	m	30.13	+0.05	42	42	-4	ENE	5	o	2	57	41	0.67	
Perpignan ...	30.17	52	NW	2	b	30.19	+0.04	39	37	-11	SW	2	b	*	53	36	—	
Biarritz ...	30.21	51	N	3	o	30.22	-0.03	41	40	-7	SSE	2	C	3	55	39	—	
PORTUGAL.																		
Corunna ...	30.30	52	E	0	b	30.22	-0.12	53	51	+6	N	3	C	5	57	?	—	
Lisbon ...	30.30	52	E	0	b	30.22	-0.12	53	51	+6	N	3	C	5	57	?	—	

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

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

WEATHER CHARTS

for 8 a.m. on

Saturday, 22nd February,

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.

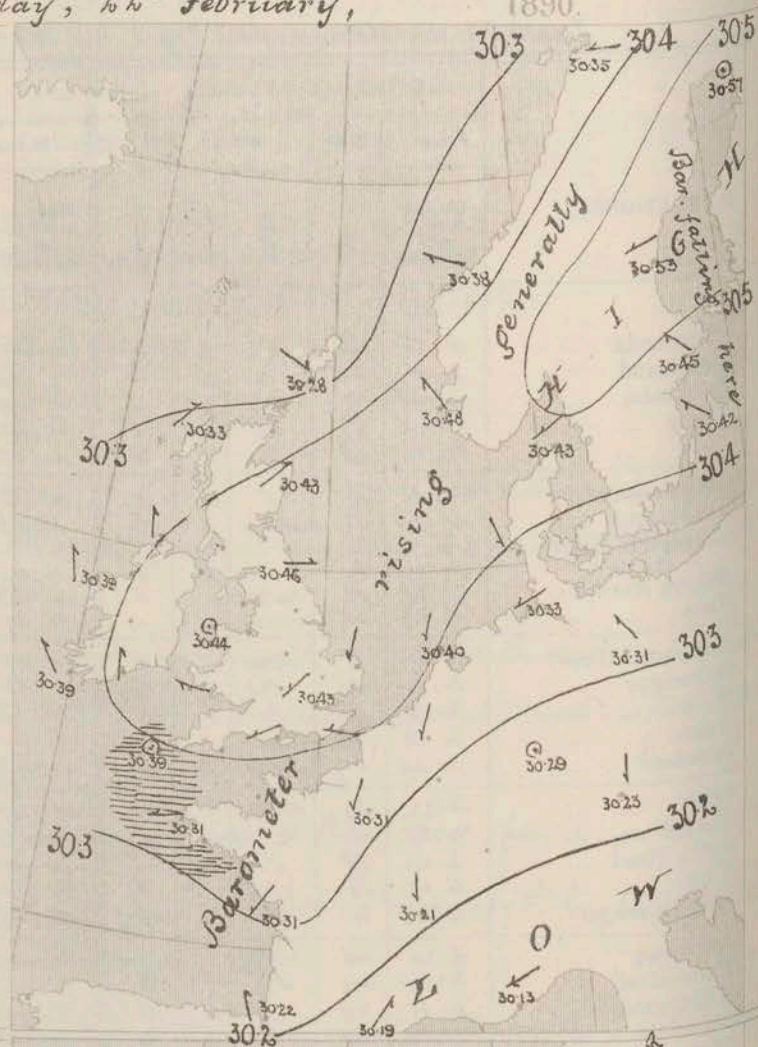
SEA DISTURBANCE—Where considerable, is shown thus:

⋯ = Rough. ⋯ = High.

MEAN HEIGHT OF THE BAROMETER

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

STATIONS.	MEAN READINGS.
Sumburgh Head	29.713
Stornoway	29.700
Wick	29.737
Nairn	29.747
Aberdeen	29.780
Leith	29.803
Shields	29.847
York	29.884
Loughborough	29.912
Ardrossan	29.805
Donaghadee	29.812
Holyhead	29.848
Liverpool	29.873
Parsonstown	29.884
Valencia	29.850
Roche's Point	29.850
Pembroke	29.875
Sally	29.911
Jersey	29.976
Hurst Castle	29.944
Dover	29.957
LONDON	29.949
Oxford	29.938
Cambridge	29.935
Yarmouth	29.928



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

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

WEATHER is shown by Letters of the Beaufort Scale.

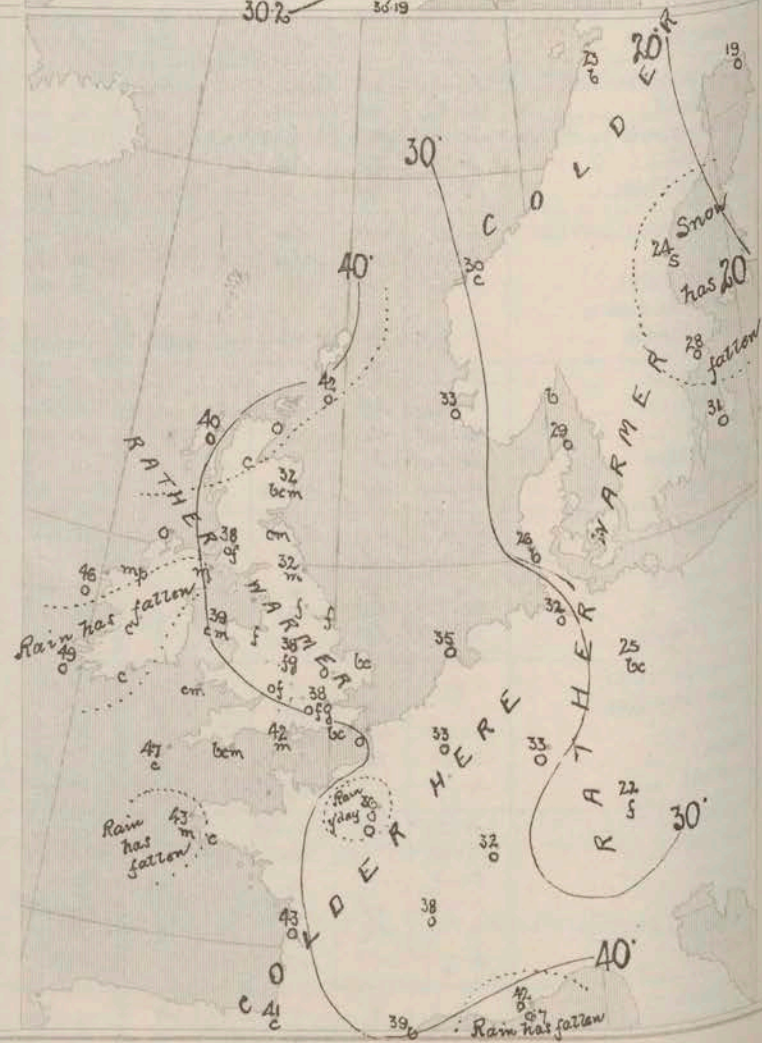
RAINFALL—A dotted line separates the districts in which rain has fallen from those where there has been none. Falls of 0.5 in. or more, are quoted in figures.

MEANS OF TEMPERATURE IN SHADE, AND RAINFALL.

(For the month of February.)

STATIONS.	TEMPERATURE.				RAINFALL (Inches.)
	Daily Max.	Daily Min.	at 8 a.m.		
			Dry.	Wet.	
Sumburgh Head.....	42.6	34.7	38.7	37.7	3.20
Stornoway	43.6	34.7	39.3	38.2	3.97
Wick	43.4	33.5	38.4	37.0	2.02
Nairn	43.4	33.8	37.4	35.7	1.51
Aberdeen	43.5	34.2	37.8	36.2	2.51
Leith	44.6	34.7	39.2	37.7	1.58
Shields	44.3	35.7	39.2	37.9	1.65
York	45.3	34.2	38.2	37.1	1.88
Loughborough	46.0	34.5	38.4	37.3	2.00
Ardrossan	45.0	30.7	40.0	38.6	3.47
Donaghadee	45.8	37.0	40.7	39.7	2.71
Holyhead	46.1	39.3	42.3	40.8	2.90
Liverpool	45.3	36.9	39.9	38.3	1.85
Parsonstown	47.4	36.1	40.1	38.8	2.45
Valencia	50.2	40.8	45.1	43.4	5.20
Roche's Point	48.9	40.0	43.6	42.2	4.86
Pembroke	46.2	40.3	43.1	41.9	3.20
Scilly	49.7	43.7	46.0	45.3	2.98
Jersey	47.6	40.1	43.2	42.0	2.72
Hurst Castle	46.5	37.9	41.3	40.4	2.03
Dover	45.4	37.4	40.3	39.1	2.12
LONDON	46.9	36.0	39.7	38.6	1.89
Oxford	45.9	35.9	38.8	37.7	2.06
Cambridge	46.4	33.9	38.3	37.3	1.60
Yarmouth	43.5	35.2	38.9	38.2	2.02

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, 30.5 ins. and more, over Sweden, and high 30.4 ins. and more in an elongated area covering the greater part of our Islands and the North Sea.
Lowest, 30.2 ins. and less, over the south of France and Northern Italy.

Gradients are very slight everywhere.

Barometer rising decidedly except over the Baltic and the Iberian Peninsula, where a slight fall is reported.

TEMPERATURE

Highest, 53° at Lisbon, 49° at Valencia, 47° at Rocherpoint and Scilly, 46° at Bismarck, and 45° at Mullaghmore.

Lowest, 19° at Haparanda, 22° at Munich, 23° at Rostock, 24° at Stockholm, 25° at Berlin, and 26° at Saeder and Tans.

It has risen somewhat over our Islands and Germany, but fallen in most part of France.

WIND

Very light and variable over the greater part of England, light from the S.W. in the extreme west and north, light from N.E. and N.E. at the French stations and on the south and southeast coast of England.

Over Scandinavia varying E³ breezes are reported.

WEATHER

Fair at some of the southern English stations and at Tans, Berlin, and Leipzig, but cloudy or dull elsewhere with fog or mist over England and showers at Mullaghmore. Rain has fallen during the past twenty-four hours at several of the western and northern stations, as well as in the extreme south of France, where the fall has been heavy.

SEA

Rough at Tans, and on the northwest coast of France, moderate or slight elsewhere.

PROBABLE CHANGES IN SYSTEM NOW PREVALENT

As barometrical pressure appears likely to remain very uniform, calms and variable airs with occasional fog or mist are probable in most parts of the country.

FORECASTS

For the 24 hours ending at NOON on 23rd Feb^{ry} 1890.

DISTRICTS.

FORECASTS.

0 SCOTLAND NORTH

1 SCOTLAND EAST

2 ENGLAND N.E.

3 ENGLAND EAST

4 MIDLAND COUNTIES

5 ENGLAND SOUTH

SW² winds, light; cloudy but fair.

Light Variable breezes, dull, misty, cold.

NE³ breezes, light; fair but misty.

Same as N°2

E⁴ and NE³ breezes, light; fair some fog locally. Rather cold.

DISTRICTS.

FORECASTS

6 SCOTLAND WEST

7 ENGLAND N.W.

8 ENGLAND S.W.

9 IRELAND NORTH

0 IRELAND SOUTH

Varying S² breezes; dull, some showers locally.

Same as N°5.

Same as N°6 and 7.

WARNINGS

NONE ISSUED.

N°1.—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:								THER:							
	BAR:	D.	W.	D.	F.	WEA.	SEA		BAR:	D.	W.	D.	F.	WEA.	SEA	
Skudesnaes ...	30.35	35	20	ESE	4	o	3	Holyhead ...	30.17	46	45	SW	2	o	2	
Sumburgh Head ...	30.12	37	37	SSE	5	T	6	Valencia ...	30.08	50	50	SE	2	ond	6	
Stornoway ...	30.04	40	47	SW	4	bc	4	Scilly ...	30.18	52	50	SSE	5	bc		
Aberdeen ...	30.14	40	38	SSE	2	c	5	Jersey ...								
Shields ...	30.15	39	38	WSE	1	m	4	Dungeness ...	30.22	37	37	N	2	m	*	
Ardrossan ...	30.15	39	38	NNW	1	off	1	London ...	30.21	39	38	E	0	off	3	
Malin Head ...	30.12	40	45	SW	2	bc	2	Yarmouth ...	30.15	40	39	NNW	1	T	?	
Mullaghmore ...	30.12	46	43	NNW	2	bc	2	Rochefort ...	30.26	47	47	NNW	3	m		
Belmullet ...	30.11	52	47	NE	2	bc	*									

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

Weather cloudy or overcast in most places, with fog or mist in many parts of Great Britain and France, and rain at Shields as well as in Algeria. Fine over Germany and the Baltic, as well as in isolated parts of France and Spain.

Temperature, highest, 50° and upwards over the Mediterranean (Malta 59°, Ponguani, Cagliari, and Algiers 54°); high 45° and upwards on the southwest coasts of our Islands and the west coast of France. Lowest -3°F at Hermannstadt, -1° at Kharkov, +10° at Riga and Nicolaiiff; below 20° at most of the Russian and several of the Austrian stations, below the freezing point over Northern Eastern, and Central Europe generally.

Wind moderate from the S^W in the west and north of our Islands; variable over the greater part of England and France; E or SE over Scandinavia, Denmark, the Baltic, and Central Europe; N or NW over the western parts of the Mediterranean, light and variable in Russia.

Barometer highest 30.7 ins: and upwards over Central Russia, high 30.3 ins: and upwards, over the whole of Northern Eastern Europe, as well as over the Iberian Peninsula. Lowest, 30.0 ins: and less, in a long shallow area lying to the westward of our Islands. Gradients slight generally. Barometer falling in the northern and eastern countries, but rising elsewhere.

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 25th FEB^{ry} 1890.
Issued by the Meteorological Office, 63, Victoria Street, London. R. H. SCOTT, Secretary.

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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.		Sea. (0 to 1.)	SHADE TEMP.				
			Direc.	Force. (0 to 12.)		Reading at 32° F. and Sea Level.	Difference from 8 a.m. yesterday.	Dry.	Wet.	Difference from 8 a.m. yesterday.	Direc.	Force. (0 to 12.)		Weather.	Max.	Min.	Amount of Rainfall.	
SCANDINAVIA.																		
Haparanda ...	30.47	16	Z	0	o	30.16	- .41	15	15	- 4	SSW	2	S	*	22	12	0.04	
Hernösand ...	30.51	6	Z	0	b	30.30	- .23	12	12	- 12	Z	0	b	*	24	5	-	
Stockholm ...	30.51	18	Z	0	o	30.54	+ .09	13	13	- 15	Z	0	bc	*	32	?	0.08	
Wisby ...	30.49	31	SE	4	o	30.50	+ .14	31	29	0	NW	4	C	*	34	25	-	
Bodo ...	30.27	24	E	4	bc	29.78	- .57	30	29	+ 7	ENE	4	S	2	?	23	-	
Christiansund ...	30.34	36	SW	4	C	30.15	- .23	42	41	+ 12	SW	9	r	5	42	34	-	
Skudesnaes ...	30.32	34	SSE	6	S	30.54	+ .06	39	39	+ 6	E	1	r	3	?	33	0.28	
Christiania Fjord (Færd)	30.55	31	N	2	b	30.52	+ .03	25	27	+ 2	SW	3	b	2	30	26	-	
Skagen (The Scaw)	30.57	30	Z	0	b	30.57	+ .14	31	30	+ 2	SSW	3	o	2	32	25	-	
Faro ...	30.62	24	N	2	b	30.69	+ .30	25	24	- 1	Z	0	C	*	32	21	-	
Sumburgh Head	30.38	44	W	2	o	30.49	+ .21	46	46	+ 4	W	2	o	3	46	42	0.04	
Stornoway ...	30.43	45	SW	4	o	30.41	+ .28	47	47	+ 4	Z	0	o	2	47	35	-	
Wick ...	30.46	43	SW	1	C	30.61	+ .25	46	45	+ 7	W	1	p	1	46	37	0.03	
Nairn ...	30.50	44	SW	1	bc	30.63	+ .26	45	44	+ 5	SW	1	C	0	50	39	-	
Aberdeen ...	30.53	41	Z	0	cm	30.66	+ .23	41	40	+ 9	W	1	cm	2	46	32	0.01	
Leith ...	30.56	41	W	1	b	30.68	+ .23	42	42	+ 6	W	2	bc	*	46	36	0.02	
Shields ...	30.62	46	Z	0	bc	30.68	+ .22	36	36	+ 4	SW	1	m	3	47	31	-	
Spurn Head ...	30.56	39	SE	1	b	30.70	+ .25	38	37	+ 1	Z	0	b	2	42	33	-	
York ...	30.56	39	SE	1	f	30.67	+ .19	34	34	- 1	Z	0	f	*	43	32	-	
Loughborough	30.57	39	ENE	1	C	30.44	+ .28	27	27	- 11	NW	1	f	*	47	27	-	
BRITISH ISLANDS.																		
Ardrossan ...	30.55	43	SSE	1	o	30.70	+ .25	44	44	+ 6	Z	0	of	0	44	37	-	
Malin Head ...	30.53	48	SW	1	om	30.69	+ .31	45	45	+ 5	W	2	adm	2	49	40	-	
Mullaghmore ...	30.54	47	Z	0	o	30.72	+ .32	46	45	+ 1	WNW	1	om	2	48	44	0.03	
Belmullet ...	30.56	49	WSW	2	o	30.75	+ .36	46	46	0	NW	1	o	*	52	45	-	
Donaghadee ...	30.55	44	SSW	2	C	30.71	+ .28	45	45	+ 3	WNW	2	C	1	46	41	-	
Liverpool (Bidston)	30.57	39	ESE	2	b	30.72	+ .25	34	24	- 3	ESE	1	f	2	46	33	-	
Holyhead ...	30.57	44	NNW	1	C	30.70	+ .26	43	42	+ 4	N	1	smg	1	46	39	0.01	
Parsonstown ...	30.55	48	Z	0	bc	30.70	+ .30	43	42	0	Z	0	C	*	53	42	-	
Valencia ...	30.57	48	SE	1	bc	30.71	+ .32	41	40	- 8	Z	0	bw	1	52	39	-	
Roche's Point...	30.55	47	SSW	1	bc	30.69	+ .29	46	45	- 1	ENE	2	m	3	50	44	-	
Pembroke (St. Ann's Hd.)	30.56	44	ESE	1	f	30.70	+ .26	36	35	- 6	E	2	cm	3	46	36	-	
Seilly ...	30.53	47	ENE	4	om	30.62	+ .28	43	41	- 4	ENE	5	cm	6	52	42	-	
Prawle Point ...	30.54	40	NNE	2	bc	30.64	+ .22	37	35	- 5	NE	6	cm	4	43	35	-	
Jersey (St. Aubin's)	30.54	44	E	3	o	30.66	+ .23	36	34	- 6	ENE	3	bm	3	46	33	-	
Hurst Castle ...	30.54	44	E	3	o	30.66	+ .23	36	34	- 6	ENE	3	bm	3	46	33	-	
Dungeness ...	30.48	40	ENE	5	o	30.58	+ .20	37	34	- 4	ENE	6	C	4	42	36	-	
London ...	30.54	40	ENE	1	bcf	30.67	+ .24	35	33	- 3	NE	4	bc	*	43	33	-	
Oxford ...	30.62	38	E	1	o	30.71	+ .25	30	29	- 8	NE	1	b	*	47	28	-	
Cambridge ...	30.58	35	NE	1	b	30.72	+ .25	30	29	- 5	N	1	b	*	42	26	-	
Yarmouth ...	30.54	39	ENE	3	bc	30.67	+ .24	37	35	- 2	ENE	3	bc	4	41	35	-	
GERMANY & HOLLAND.																		
Cuxhaven ...	30.29	35	Z	0	o	30.53	+ .22	32	31	+ 7	NNE	3	o	*	36	21	-	
Berlin ...	*	*	*	*	*	30.50	+ .21	35	32	+ 2	NE	2	o	*	37	33	-	
Wiesbaden ...	30.31	25	NW	2	f	30.40	+ .17	24	24	+ 2	NE	3	m	*	27	21	-	
Munich ...	30.56	34	NE	3	b	30.68	+ .28	32	30	- 3	NE	2	b	3	37	32	-	
The Helder ...	30.56	34	NE	3	b	30.68	+ .28	32	30	- 3	NE	2	b	3	37	32	-	
FRANCE AND BELGIUM.																		
Brussels (9 a.m.)	*	*	*	*	*	30.61	+ .21	31	31	- 2	NE	2	o	*	37	31	-	
Cape Gris Nez	?	39	ENE	4	o	?	?	30	29	- 10	E	4	bc	3	45	28	-	
Paris ...	30.43	36	NNE	5	o	30.51	+ .20	33	31	- 3	NNE	3	o	*	39	33	-	
Brest ...	30.29	46	E	3	o	30.17	- .14	42	40	- 1	E	3	o	5	52	39	-	
Lorient ...	30.38	45	NE	5	o	30.45	+ .14	40	37	- 2	NE	5	bc	6	46	36	-	
Rochefort ...	30.25	42	NNE	5	o	30.41	+ .10	36	35	- 7	NE	6	o	?	48	30	-	
Belfort ...	30.21	36	S	2	o	30.30	+ .12	32	?	0	S	3	o	*	43	27	-	
Lyons ...	30.25	42	NNW	2	o	30.34	+ .13	32	30	- 6	NNW	3	m	*	45	31	-	
Nice ...	30.13	47	E	2	C	30.17	+ .04	46	41	+ 4	SE	3	C	1	50	41	0.04	
Perpignan ...	30.17	47	N	2	b	30.23	+ .04	38	36	- 1	W	2	b	*	62	36	0.35	
Biarritz ...	30.20	48	N	5	o	30.24	+ .02	47	41	+ 1	E	3	m	3	52	41	-	
PENINSULA.																		
Corunna ...	*	*	*	*	*	30.25	+ .17	49	47	- 4	NE	6	C	5	57	46	0.08	
Lisbon ...	30.12	51	NNW	4	b	30.01	- .21	46	42	- 7	NE	5	b	6	59	46	-	

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

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

WEATHER CHARTS

for 8 a.m. on

Sunday, 23rd February,

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 forces thus—

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

→ = forces 5 to 7; → = forces 1 to 4.

○ = dead calm.

SEA DISTURBANCE—Where considerable, is shown thus:

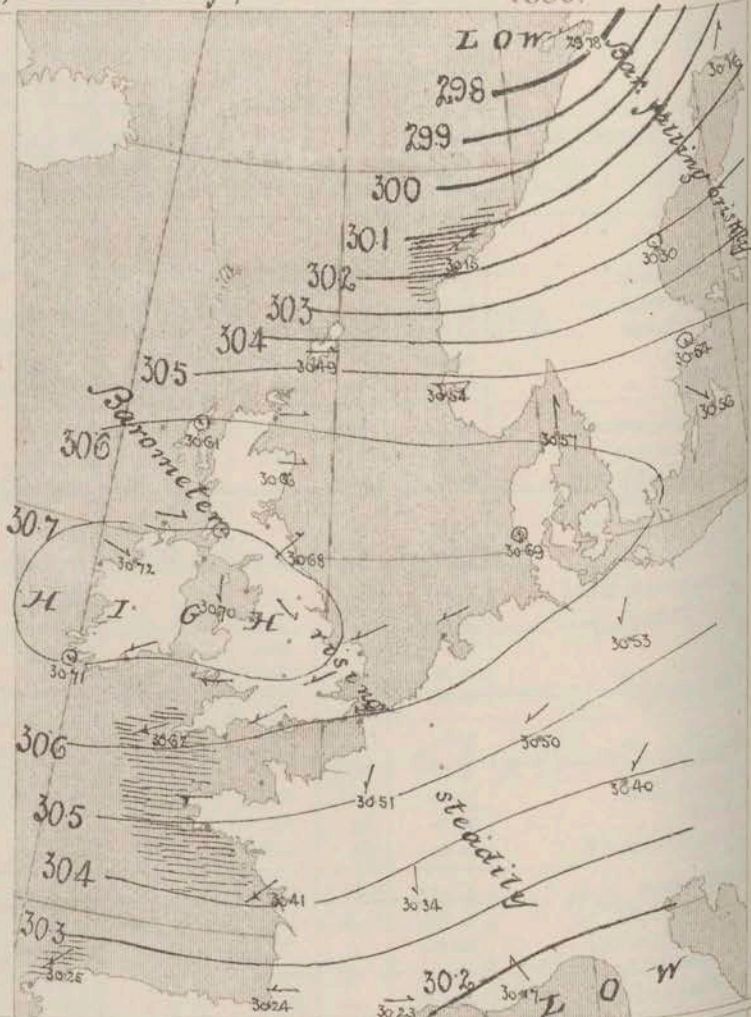
— = Rough. — = High.

MEAN HEIGHT OF THE BAROMETER

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

During the 15 Years: 1871—1885.

STATIONS.	MEAN READINGS.
Sumburgh Head	29.713
Stornoway	29.700
Wick	29.737
Nairn	29.747
Aberdeen	29.780
Leith	29.803
Shields	29.847
York	29.884
Loughborough	29.912
Ardrossan	29.805
Donaghadee	29.812
Holyhead	29.848
Liverpool	29.873
Parsonstown	29.834
Valencia	29.850
Roche's Point	29.850
Pembroke	29.875
Scilly	29.911
Jersey	29.975
Hurst Castle	29.944
Dover	29.957
LONDON	29.949
Oxford	29.938
Cambridge	29.935
Yarmouth	29.928



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

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

WEATHER—is shown by Letters of the Beaufort Scale.

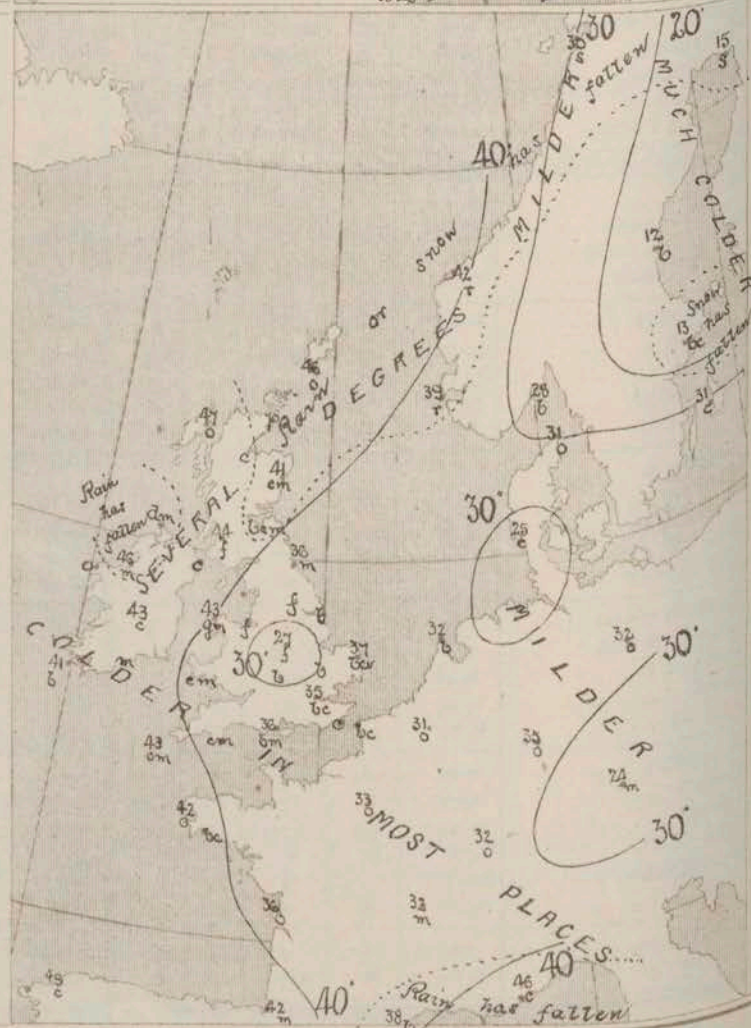
RAINFALL—A dotted line separates the districts in which rain has fallen from those where there has been none. Falls of 0.5 in. or more, are quoted in figures.

MEANS OF TEMPERATURE IN SHADE, AND RAINFALL.

(For the month of February.)

STATIONS.	TEMPERATURE.				RAINFALL (Inches.)
	Daily Max.	Daily Min.	at 8 a.m. Dry.	Wet.	
Sumburgh Head	42.6	34.7	38.7	37.7	3.29
Stornoway	43.5	34.7	39.3	38.2	3.97
Wick	43.4	33.5	38.4	37.0	2.02
Nairn	43.4	33.8	37.4	35.7	1.51
Aberdeen	43.5	34.2	37.8	36.2	2.51
Leith	46.6	34.7	39.2	37.7	1.58
Shields	44.3	35.7	39.2	37.9	1.63
York	45.3	34.2	38.2	37.1	1.88
Loughborough	46.0	34.5	38.4	37.3	2.00
Ardrossan	45.0	36.7	40.0	38.6	3.47
Donaghadee	45.8	37.0	40.7	39.7	2.71
Holyhead	46.1	39.3	42.3	40.8	2.90
Liverpool	45.3	36.9	39.9	38.3	1.85
Parsonstown	47.4	36.1	40.1	38.8	2.45
Valencia	50.2	40.8	45.1	43.4	5.29
Roche's Point	48.9	40.0	43.6	42.2	4.86
Pembroke	46.2	40.3	43.1	41.9	3.20
Scilly	49.7	43.7	46.9	45.3	2.98
Jersey	47.6	40.1	43.2	42.0	2.72
Hurst Castle	46.5	37.9	41.3	40.4	2.63
Dover	45.4	37.4	40.3	39.1	2.12
LONDON	46.9	36.0	39.7	38.6	1.89
Oxford	45.9	35.9	38.8	37.7	2.06
Cambridge	46.4	33.9	38.3	37.3	1.60
Yarmouth	43.5	35.2	38.9	38.2	2.02

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, 30.6 in. and 30.7 in. and more, in an anticyclone lying over the North Sea and British Isles.
 Lowest, 29.8 in. and less, in a depression off the northwest of Norway, and 30.2 in. and less, over the Mediterranean.
 Gradient slight except over the northern half of Scandinavia, where they were moderate for SW winds.
 Barometer rising except in far north, where it is falling somewhat.

TEMPERATURE

Highest, 49° at Lorient, 47° at Tromsø, Nice, Rocher Point, Bismarck, and Sumburgh Hd.
 Lowest, 12° at Hirtsholm, 13° at Stockholm, 15° at Haparanda, 24° at Munich, 31° at Brussels, 32° at Lyons and Berlin, 33° at Paris.
 It has fallen decidedly over England, France, and Spain, risen in Scotland, Norway and North Germany.

WIND

W and SW at the northern stations (excepting Bodø) light in Scotland, a gale at Christiansund.
 E and NE in the south — fresh to strong over the Channel and Bay of Biscay, light to moderate inland.
 Calms and variable airs prevail over Ireland, the Irish Sea, and north of England.

WEATHER

Unsettled over Scandinavia and the north of Scotland with snow and rain in places.
 Foggy over our northern and north midland counties, fair and dry elsewhere, and clear in places.
 Rain fell in the south of France yesterday.

SEA

Rough at Bodø and at the mouth of the Channel and over the Bay of Biscay, moderate on our south and southeast coasts, slight or smooth elsewhere.

PROBABLE CHANGES IN SYSTEM NOW PREVALENT

FORECASTS

For the 24 hours ending at NOON on 24th FEB^y 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
- 0 IRELAND SOUTH

WARNINGS

FORECASTS

NONE ISSUED.

NONE ISSUED.

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

YESTERDAY'S 2 P.M. REPORTS.

	BAR:	THER:		WIND				SEA		BAR:	THER:		WIND				SEA	
		D.	W.	D.	F.	WEA.					D.	W.	D.	F.	WEA.			
Skudesnaes ...	30.51	34	33	SSE	6	3	4			Holyhead ...	30.52	46	44	NNW	1	0	4	
Sumburgh Head ...	30.33	45	43	WSW	1	0	3			Valencia ...	30.50	52	50	SSE	4	6m	5	
Stornoway ...	30.40	47	46	S	4	6c	4			Scilly ...	30.47	50	48	ESE	3	6m		
Aberdeen ...	30.47	45	40	SW	1	c	3			Jersey ...								
Shields ...	30.50	47	42	SW	1	m	3			Dungeness ...	30.44	41	39	NE	4	r	3	
Ardrossan ...	30.51	43	42	2	0	c	0			London ...	30.52	43	42	NE	2	om	3	
Malin Head ...	30.48	49	46	SW	1	0	1			Yarmouth ...	30.49	41	38	NE	3	h		
Mullaghmore ...	30.51	47	46	NNW	2	cm	2			Rocheport ...	30.34	44	42	NNE	4	m		
Belmullet ...	30.50	52	50	SSW	2	0	*											

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

Weather fine in Austria and some parts of Russia and Italy, and fair in the eastern and southern parts of Great Britain. Cloudy or overcast elsewhere, with fog at many of the English and German stations, rain at Limerick and Lough, and snow at Hermsund and Stockholm. Sky clearing later in many parts of Western Europe, but snow falling at Uleaborg and Skudesnaes.

Temperature highest, 50° and upwards, at several of the Mediterranean stations, and also on the coasts of the Iberian Peninsula (Cádiz 57°, Malta 56° and Sangreinaire 54°). Lowest -7° F. at Hermannstadt, -1° at Kharkov, +3° at Kiro, and 4° at Nicolaieff; below 20° at most of the Austrian and Russian stations, and below the freezing point in nearly all parts of Northern, Central and Eastern Europe. Daily maxima a little above 50° at many of our western stations and above 60° in Algeria and the southern parts of Spain and Italy.

Wind light from the SE^W in the west of our Islands and also over the greater part of Northern and Central Europe. NE^W over France, Spain, Italy, and the south of England. Variable in Algeria as well as in the Central and southern parts of Russia. Light SW^W breeze setting in later on our extreme north and northwest coasts.

Barometer highest 30.7 ins. and upwards, over all the more central parts of Russia, high 30.3 ins. and upwards in all but the extreme southern countries of Europe. Gradients slight; barometer rising generally. Fall of mercury taking place later in Spain and Algeria, and large shallow depression appearing in those regions.

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 24th February.

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.	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 ...	30.00	26	2	0	2	30.10	-0.06	10	9	-5	SE	2	bc	•	27	9	0.04	
Hernösand ...	30.11	38	NW	6	C	30.30	0.0	33	30	+21	NE	2	bc	•	39	1	—	
Stockholm ...	30.21	31	WPNW	4	0	30.28	-0.26	32	28	+19	NW	2	bc	•	34	10	—	
Wisby ...	30.31	33	NW	6	2	30.24	-0.32	36	34	+5	NNE	6	bc	•	34	28	—	
Bodö ...	30.15	38	WPNW	6	0	30.13	+0.35	39	38	+9	SW	6	bc	•	34	28	0.08	
SCANDINAVIA.																		
Christiansund	30.50	41	WPNW	4	C	30.50	+0.35	41	39	-1	WPNW	7	0	5	43	9	0.08	
Skudesnaes ...	30.53	41	2	0	f	30.50	-0.04	38	37	-1	NNW	6	bc	3	41	34	0.12	
Christiania Fjord (Fierder)	30.55	36	WPNW	3	bc	30.48	-0.04	31	30	+3	NNW	2	C	2	36	9	—	
Skagen (The Scaw)	30.57	34	2	0	f	30.46	-0.11	34	33	+3	2	0	bc	0	41	30	—	
Fanö ...	30.54	36	WPNW	4	0	30.45	-0.24	33	33	+8	NW	2	f	•	37	25	—	
SCANDINAVIA.																		
Sumburgh Head	30.58	46	WNW	1	0	30.60	+0.11	45	43	-1	NW	2	C	2	49	42	0.03	
Stornoway ...	30.68	48	W	2	0	30.70	+0.09	44	44	-3	2	0	f	2	52	42	0.05	
Wick ...	30.66	48	NW	2	0	30.67	+0.01	45	45	-1	NW	1	bc	1	52	43	0.05	
Nairn ...	30.69	48	NW	1	0	30.69	+0.06	43	43	-2	2	0	0	1	53	42	0.03	
Aberdeen ...	30.69	47	NW	1	C	30.70	+0.04	44	43	+3	NW	2	0	2	52	40	0.03	
SCANDINAVIA.																		
Leith ...	30.69	45	2	0	bc	30.68	0.0	41	40	-1	2	0	f	•	55	40	—	
Shields ...	30.67	45	2	0	bc	30.63	-0.05	44	44	+8	N	1	f	2	48	35	0.03	
Spurn Head ...	30.68	39	ESE	1	bc	30.59	-0.11	40	40	+2	NNW	1	f	3	43	35	—	
York ...	30.70	40	2	1	bc	30.63	-0.04	39	39	+5	N	1	0	•	43	27	0.01	
Loughborough	30.69	40	ESE	1	bc	30.63	-0.11	33	32	+6	WNW	1	ondf	•	49	27	—	
BRITISH ISLANDS.																		
Ardrossan	30.70	45	2	0	bc	30.68	-0.02	39	38	-5	2	0	af	0	50	36	—	
Malin Head ...	30.73	46	NNW	1	0	30.70	+0.01	44	44	-1	NNW	3	af	1	49	44	0.02	
Mullaghmore ...	30.75	47	NW	2	om	30.70	-0.02	43	42	-3	SE	4	C	2	50	42	—	
Belmullet ...	30.76	48	N	2	0	30.70	-0.05	44	43	-2	NE	1	bc	•	51	44	0.01	
Donaghadee ...	30.71	46	NE	3	C	30.69	-0.02	44	44	-1	NE	2	m	0	50	43	0.01	
BRITISH ISLANDS.																		
Liverpool (Bidston)	30.71	38	NNE	1	0	30.65	-0.07	35	35	+1	NW	1	f	2	41	33	0.02	
Holyhead ...	30.70	43	N	1	C	30.66	-0.04	39	39	-4	ESE	1	f	1	46	38	0.02	
Parsonstown ...	30.71	48	2	0	C	30.65	-0.05	42	41	-1	2	0	bc	•	52	41	—	
Valencia ...	30.70	49	N	2	C	30.62	-0.09	45	42	+4	N	1	bc	2	51	39	—	
Roche's Point...	30.67	47	ESE	2	C	30.62	-0.07	40	38	-6	ESE	2	C	3	50	38	—	
BRITISH ISLANDS.																		
Pembroke (St. Ann's Hd.)	30.66	43	E	2	m	30.63	-0.07	37	36	+1	ESE	2	C	2	46	35	—	
Scilly ...	30.58	45	ESE	4	bc	30.51	-0.11	41	40	-2	ESE	6	C	5	45	39	—	
Prawle Point ...	30.60	40	NE	5	C	30.53	-0.11	38	37	+1	ESE	6	bc	4	40	35	—	
Jersey (St. Aubin's)	30.60	40	ESE	4	bc	30.57	-0.09	35	34	-1	ESE	3	bc	2	43	30	—	
Hurst Castle ...	30.60	40	ESE	4	bc	30.57	-0.09	35	34	-1	ESE	3	bc	2	43	30	—	
BRITISH ISLANDS.																		
Dungeness	30.58	37	ESE	6	C	30.55	-0.03	39	37	+2	E	5	C	3	40	36	—	
London ...	30.67	37	ESE	2	bc	30.59	-0.08	35	34	0	N	1	f	•	42	32	—	
Oxford ...	30.69	35	ESE	1	bc	30.63	-0.08	33	32	+3	NE	1	0	•	42	29	—	
Cambridge ...	30.71	37	N	1	bc	30.61	-0.11	33	32	+3	N	1	C	•	45	27	—	
Yarmouth ...	30.68	38	NE	3	bc	30.55	-0.12	36	35	-1	NW	2	cf	3	40	33	—	
GERMANY & HOLLAND.																		
Cuxhaven	30.64	32	N	3	bc	30.48	-0.13	37	37	-1	NW	3	f	•	37	32	—	
Berlin ...	30.57	35	NW	3	0	30.40	-0.13	31	29	-1	ESE	3	0	•	36	27	—	
Wiesbaden ...	30.42	26	E	3	0	30.49	-0.01	33	31	-2	NE	2	0	•	36	32	—	
Munich ...	30.42	26	E	3	0	30.41	+0.01	25	23	+1	NE	1	0	•	28	25	—	
The Helder ...	30.67	34	NE	1	bc	30.53	-0.15	38	37	+6	NW	1	f	1	32	32	—	
FRANCE AND BELGIUM.																		
Brussels (a.m.)	30.57	34	E	4	bc	30.57	-0.04	27	27	-4	ESE	2	bc	•	38	26	—	
Cape Gris Nez	30.51	35	NE	3	0	30.47	-0.04	29	29	-1	ESE	3	bc	2	45	28	—	
Brest ...	30.45	39	E	3	0	30.39	-0.18	35	34	-7	E	3	0	3	52	32	0.08	
Lorient ...	30.41	37	E	6	0	30.37	-0.08	34	31	-6	ESE	5	0	5	45	32	—	
FRANCE AND BELGIUM.																		
Rochefort	30.35	38	ESE	6	0	30.31	-0.10	34	33	-2	ESE	6	bc	•	41	27	—	
Belfort ...	30.31	34	SW	2	0	30.27	-0.02	32	22	0	N	1	0	•	38	28	—	
Lyons ...	30.34	36	NW	1	0	30.27	+0.03	31	30	-1	N	1	0	•	38	31	—	
Nice ...	30.18	46	W	4	bc	30.21	+0.04	42	37	-4	E	2	bc	2	57	39	—	
Perpignan ...	30.20	47	NE	2	bc	30.23	0.0	43	41	+5	NE	2	bc	•	56	32	0.04	
Biarritz ...	30.18	45	E	3	C	30.16	-0.08	37	36	-5	E	3	m	2	50	34	—	
FRANCE AND BELGIUM.																		
Corunna ...	29.84	51	NE	5	bc	29.75	-0.26	47	46	+1	ESE	4	C	5	59	46	—	
Lisbon ...	29.84	51	NE	5	bc	29.75	-0.26	47	46	+1	ESE	4	C	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

Monday, 24th February,

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 horns and feathers refer to force thus—

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

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

○ = dead calm.

SEA DISTURBANCE—Where considerable, is shown thus:

— = Rough. — = High.

MEAN HEIGHT OF THE BAROMETER

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

During the 15 Years: 1871—1885.

STATIONS.	MEAN READINGS.	
	in.	
Sumburgh Head	29.713	
Stornoway	29.700	
Wick	29.737	
Nairn	29.747	
Aberdeen	29.780	
Leith	29.803	
Shields	29.847	
York	29.884	
Loughborough	29.912	
Ardrossan	29.805	
Donaghadee	29.812	
Holyhead	29.848	
Liverpool	29.873	
Parsonstown	29.834	
Valencia	29.850	
Roche's Point	29.850	
Pembroke	29.875	
Scilly	29.911	
Jersey	29.975	
Hurst Castle	29.944	
Dover	29.957	
LONDON	29.949	
Oxford	29.938	
Cambridge	29.935	
Yarmouth	29.928	

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

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

WEATHER is shown by Letters of the Beaufort Scale.

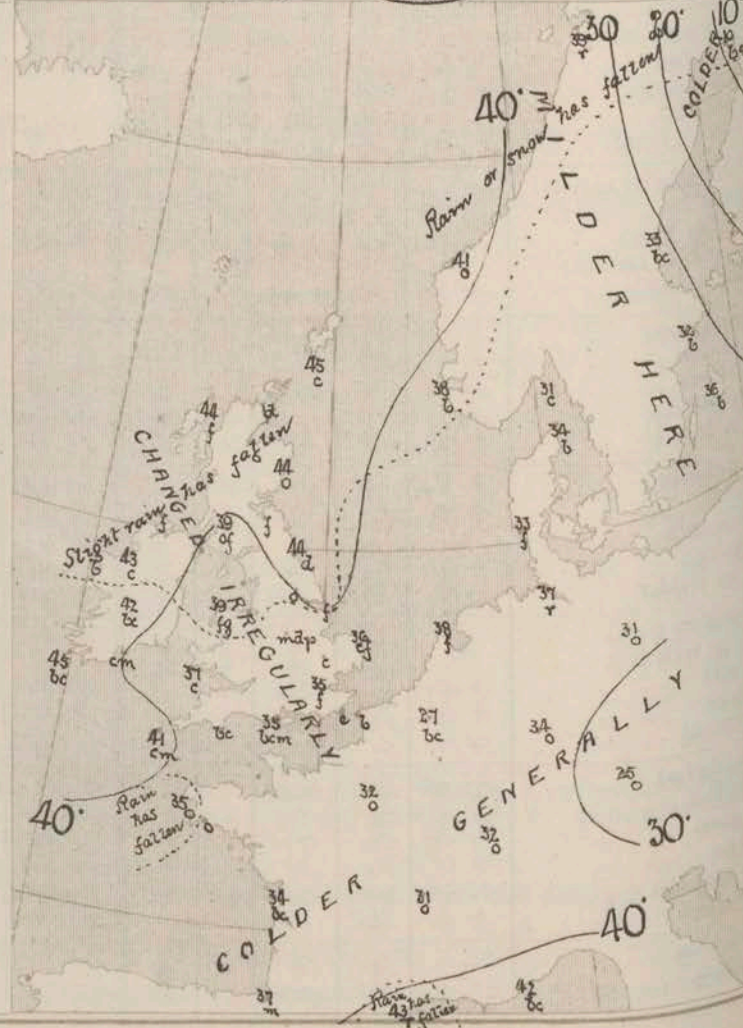
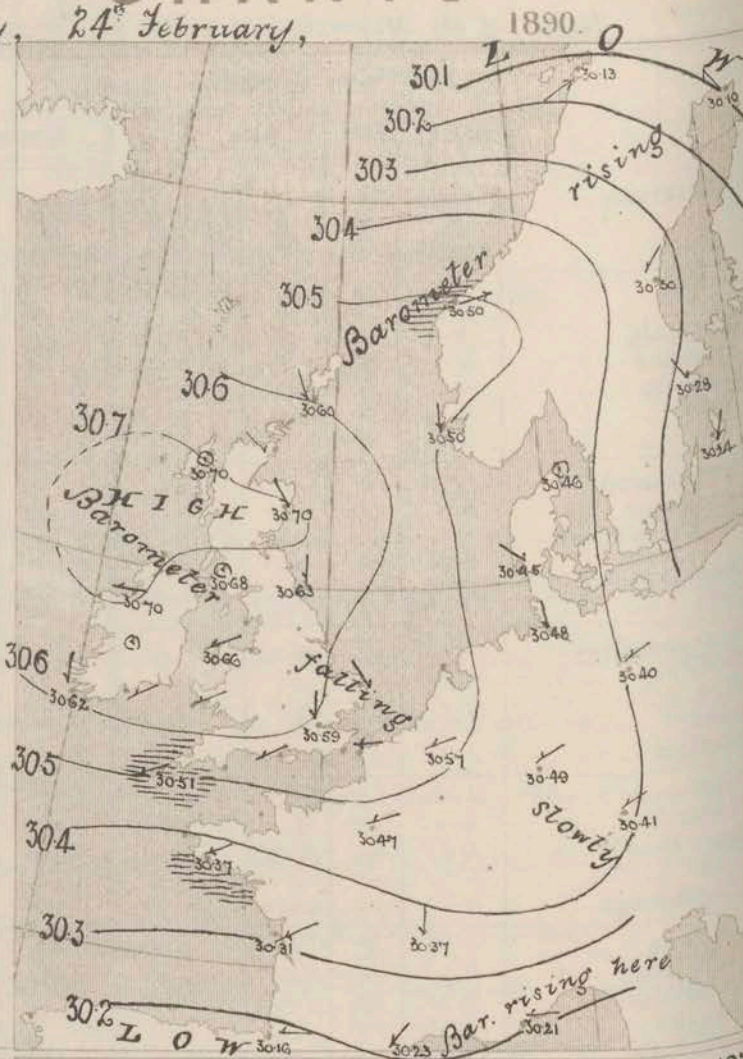
RAINFALL—A dotted line separates the districts in which rain has fallen from those where there has been none. Falls of 0.5 in. or more, are quoted in figures.

MEANS OF TEMPERATURE IN SHADE, AND RAINFALL.

(For the month of February.)

STATIONS.	TEMPERATURE.				RAINFALL (Inches.)
	Daily Max.	Daily Min.	at 8 a.m.		
			Dry.	Wet.	
Sumburgh Head.....	42.6	34.7	38.7	37.7	3.29
Stornoway	43.5	34.7	39.3	38.2	3.97
Wick.....	43.4	33.5	38.4	37.0	2.02
Nairn	43.4	33.8	37.4	35.7	1.51
Aberdeen	43.5	34.2	37.8	36.2	2.51
Leith.....	40.6	34.7	39.2	37.7	1.58
Shields	44.3	35.7	39.2	37.9	1.63
York	45.3	34.2	38.2	37.1	1.88
Loughborough	46.0	34.5	38.4	37.3	2.00
Ardrossan	45.0	35.7	40.0	38.6	3.47
Donaghadee.....	45.8	37.0	40.7	39.7	2.71
Holyhead	46.1	39.3	42.3	40.8	2.90
Liverpool	45.3	36.9	39.9	38.3	1.85
Parsonstown	47.4	36.1	40.1	38.8	2.45
Valencia	50.2	40.8	45.1	43.4	5.29
Roche's Point	48.0	40.0	43.6	42.2	4.86
Pembroke.....	46.2	40.3	43.1	41.9	3.20
Scilly	49.7	43.7	46.9	45.3	2.98
Jersey	47.6	40.1	43.2	42.0	2.72
Hurst Castle	46.5	37.9	41.3	40.4	2.63
Dover	45.4	37.4	40.3	39.1	2.12
LONDON	45.9	36.6	39.7	38.6	1.89
Oxford	45.0	35.9	38.8	37.7	2.06
Cambridge	40.4	33.9	38.3	37.3	1.60
Yarmouth	43.5	35.2	38.9	38.2	2.02

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



GENERAL SITUATION AT 8 A.M.

PRESSURE

Highest, 30.6 ins. to 30.7 ins. and more over our islands.

Lowest, 30.1 mi: and less, over Northern Europe, and 23.7 mi: and less, over the south of Spain

Gradient steep over the Iberian Peninsula, rather so off the coast of Norway, slight elsewhere

Barometer rising in the extreme north of Scotland, and in Sweden and the south of France, falling elsewhere decidedly over Spain.

Highest 45° at Sumburgh Head, 44° at Stornoway, 43° at Argyrinnam, Mull of Kintyre, 42° at Mull of Kintyre, 41° at Aberdeen, 40° at Dundee, and 39° at Glasgow, 38° at Liverpool, 37° at London, 36° at Dover, 35° at Harwich, 34° at Yarmouth, 33° at Lowestoft, 32° at Great Yarmouth, 31° at Hull, 30° at Scarborough, 29° at Whitby, 28° at Newcastle, 27° at Sunderland, 26° at Newcastle, 25° at C. Geo. King, and 24° at Balm and Belfast.

It has risen rapidly in Sweden, slightly in some parts of England, but falls somewhat in most other places.

In London a thermometer on the grass fell to 24° early this morning.

TEMPERATURE

WIND

Truck from E. over the English Channel and the west of France, strong from the West on the west coast of Norway.

Over our Islands, Sweden, and Germany, varying N³ and NE³ breezes are reported.

WEATHER

Fair in the east and southwest of our Islands, as well as in Sweden, but cloudy or dull in most other places, with fog at several of the English and Scotch stations. Slight rain has fallen in the north and northwest during the past 24 hours.

SEA

Rather rough at Scilly and Lorient, moderate to smooth elsewhere.

PROBABLE CHANGES IN SYSTEM NOW PREVALENT

The weather appears likely to remain rather cold over our Islands, with varying N^W winds in most places. Over the Channel, however, fresh winds from the E^{SE} are probable.

FORECASTS

For the 24 hours ending at NOON on 25th FEB^y 1890.

DISTRICTS.

FORECASTS.

Q SCOTLAND
NORTH

1 | SCOTLAND
EAST

2 { ENGLAND
N.E.

3. ENGLAND
EAST

4 MIDLAND
COUNTIES

5 { ENGLAND
SOUTH

NW^{ly} winds, light, and calms;
fair generally.

N³ winds, light; dull, some fog

E² breezes, light, fresh on coast;
fair, dry, fog locally.

DISTRICTS.

6 { SCOTLAND
WEST

7 { ENGLAND
N.W.

8 { ENGLAND
S.W.

9 { IRELAND
NORTH

0 { IRELAND
SOUTH

FORECASTS

Varying N²⁴ breezes; light; dull, some fog.

²⁴
E" breezes, fresh or strong; fair, dry, some mist

Same as N° 6 and 7.

WARNINGS

NONE ISSUED

fair, dry, fog locally. 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.

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

YESTERDAY'S 2 P.M. REPORTS.

	BAR:	THER:		WIND		WEA.	SEA		BAR:	THER:		WIND		WEA.	SEA
		D.	W.	D.	F.					D.	W.	D.	F.		
Skudesnaes ...	30.54	41	41	WNW	1	f	3		Holyhead ...	30.72	46	44	N	1	0
Sumburgh Head ...									Valencia ...						
Stornoway ...	30.67	51	50	W	3	bc	3		Scilly ...						
Aberdeen ...									Jersey ...						
Shields ...									Dungeness ...	30.59	38	35	ENE	6	bc
Ardrossan ...									London ...						
Malin Head ...	30.73	47	47	NNW	2	0	1		Yarmouth ...						
Mullaghmore ...									Rochefort ...	30.30	41	39	NNE	6	0
Belmullet ...	30.76	50	48	N	3	0	*								

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

Weather fine at several of the English stations, over Austria, and on the southern shores of the Mediterranean, cloudy or overcast elsewhere, with snow in Lapland, rain at Skudesnaes, Malin Head and Bilbao and fog over Central England. Slight rain falling later on the N. and NW. of our Islands, and snow in Scandinavia.

Temperature highest, 50° and upwards, over the Mediterranean (Malta and La Calle 56°, Algiers 55°, Sangreine 52° and Barcelona and Brindisi 50°) high 45° and upwards over Spain and in the SW of our Islands. Lowest 3° at Khar'kov, 7° at Hermanstadt, 9° at Kuopio, 12° at Caracow and 13° at Lemberg, below 20° over most parts of Russia and Austria and varying between 38° and the freezing point over Central Europe generally.

Wind fresh from the E. and over Spain, France and the English Channel and at most of the Mediterranean stations, light from W and SW over the north of Ireland, Scotland, Scandinavia, and the N. of Russia (blowing a gale at Christiansund). Light and variable over the greater part of Russia and Austria.

Barometer highest, 30.8 ins. and upwards, over Central Russia and high 30.6 ins. to 30.7 ins. and more over the whole of our Islands, Denmark and the Netherlands. Lowest 29.7 ins. and less over Finland 30.0 ins. and less over the S. of Spain. Gradients steep over Scandinavia but slight generally elsewhere. Barometer falling quickly over the N. of Europe, and somewhat decidedly over the Iberian Peninsula, but rising elsewhere.

SUMMARY OF CHANGES IN THE WEATHER OVER THE BRITISH ISLANDS AND THEIR NEIGHBOURHOOD FROM THE 16TH TO THE 22ND FEB 1890

During the whole of the week pressure remained highest over Scandinavia and lowest in the southwestern and western parts of our area. The only depressions observed over us were shown at the commencement of the period, when one which had travelled from the southward lay to the northeastward of England, while another had approached the southwest of Ireland rapidly from the Atlantic. By Monday however, the former had entirely dispersed, and the latter was remaining stationary and filling up. Towards the end of the week pressure gave way considerably over Norway and Sweden, while it rose over the Iberian Peninsula, whence an elongated area of comparatively high readings extended gradually NEwards and finally joined the Scandinavian anticyclone.

The general direction of the wind was SE^{ly} or E^{ly}. During the greater part of the week it was fresh or strong to a gale in the N. and E. and occasionally in the W. and SW, but subsequently it became very light, and at the end of the period calms and light variable airs were reported.

Some rain fell almost daily at the Irish stations and on the Welsh coasts, but over Great Britain the weather, after the first day or two, was mostly dry, though a good deal of cloud prevailed and finally gloom and local mists or fogs.

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 February.

1890.

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

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1890.

STATIONS.	YESTERDAY EVENING.						8 A.M. TO DAY.										PAST 24 HOURS.		
	BAROM.	TEMP.	WIND.		Weather.	Barometer.	SHADE TEMP.			WIND.		Weather.	Sea. (0 to 1.)	SHADE TEMP.		Amount of Rainfall.			
	Reading at 3 ³⁰ P. and Sea Level.	Dry.	Dir.	Force. (0 to 12.)			Reading at 8 a.m. and Sea Level.	Difference from 8 a.m. yesterday.	Dry.	Wet.	Difference from 8 a.m. yesterday.			Dir.	Force. (0 to 12.)		Max.	Min.	
SCANDINAVIA.																			
Haparanda ...	29.78	39	SW	6	bc	29.58	-0.52	34	30	+2.4	NW	6	c	*	39	9	—		
Hernösand ...	30.23	40	WSPW	2	c	30.13	-0.17	42	37	+0.9	W	4	bc	*	45	28	—		
Stockholm ...	30.39	29	2	0	c	30.30	+0.2	27	25	-0.5	WSPW	2	c	*	39	?	—		
Wishby ...	30.42	31	NNW	4	c	30.36	+0.2	32	31	-0.4	WSPW	4	c	*	39	30	—		
Bodö ...	30.04	41	SW	8	o	29.96	-0.17	34	31	-0.5	WNW	7	c	5	41	34	—		
Christiansund ...	30.51	41	WSPW	6	o	30.44	-0.06	40	39	-0.1	WSPW	6	f	5	43	39	—		
Skudesnaes ...	30.55	39	NNW	4	c	30.44	-0.06	37	37	-0.1	NNW	6	o	4	45	36	—		
Christiania Fjord (Færder)	30.44	36	WSPW	2	c	30.40	-0.04	33	31	+0.2	N	2	c	1	36	30	—		
Skagen (The Scaw)	30.44	34	2	0	c	30.39	-0.07	33	32	-0.1	X	0	c	0	39	30	—		
Fanö ...	30.50	32	SW	1	c	30.42	-0.03	29	28	-0.4	X	0	c	*	45	28	—		
Sumburgh Head ...	30.62	43	NW	2	o	30.59	-0.01	40	40	-0.5	N	1	c	2	46	39	—		
Stornoway ...	30.71	44	NE	3	c	30.67	-0.03	39	39	-0.5	NE	2	c	3	48	35	—		
Wick ...	30.69	44	N	2	o	30.66	-0.03	42	42	-0.3	X	0	dm	1	46	36	0.07		
Nairn ...	30.68	46	2	0	c	30.66	-0.03	40	40	-0.3	SW	1	od	1	50	40	0.02		
Aberdeen ...	30.70	43	N	2	og	30.65	-0.05	41	40	-0.3	NW	2	o	2	47	40	—		
Leith ...	30.67	44	E	1	c	30.65	-0.03	41	41	0	E	1	om	*	50	39	—		
Shields ...	30.64	42	NE	2	odp	30.59	-0.04	40	39	-0.4	N	1	odp	2	45	37	0.05		
Spurn Head ...	30.56	41	NE	3	c	30.53	-0.06	40	39	0	NNE	4	dm	3	44	37	0.02		
York ...	30.60	44	NNE	1	o	30.60	-0.03	38	37	-0.1	N	1	o	*	47	36	—		
Loughborough ...	30.57	43	NE	2	o	30.59	-0.04	38	37	+0.5	N	2	om	*	45	33	0.01		
BRITISH ISLANDS.																			
Ardrossan ...	30.67	46	NE	1	of	30.65	-0.03	41	40	+0.2	NNE	1	o	0	47	38	—		
Malin Head ...	30.66	43	E	1	c	30.64	-0.06	41	40	-0.3	S	1	om	0	45	39	0.02		
Mullaghmore ...	30.64	46	ENE	2	c	30.64	-0.06	41	40	-0.2	ENE	4	ow	2	47	39	—		
Belmullet ...	30.64	47	NE	2	c	30.64	-0.06	42	42	-0.2	E	2	o	*	50	39	—		
Donaghadee ...	30.66	45	ENE	3	c	30.65	-0.04	40	40	-0.4	NE	1	bc	0	47	40	—		
Liverpool (Bidston)	30.60	43	NE	2	c	30.61	-0.04	35	34	0	ENE	1	c	2	44	34	0.01		
Holyhead ...	30.60	44	NNE	2	cmg	30.60	-0.06	39	39	0	NE	2	bc	1	45	38	—		
Parsonstown ...	30.60	47	2	0	bc	30.58	-0.07	40	39	-0.2	X	0	bc	*	51	40	—		
Valencia ...	30.54	47	E	3	bc	30.53	-0.09	46	42	+0.1	ENE	2	cmg	2	51	43	—		
Roche's Point...	30.55	45	ENE	3	c	30.53	-0.09	43	41	+0.3	ENE	3	c	4	47	39	—		
Pembroke (St. Ann's Hd.)	30.54	45	ENE	2	c	30.52	-0.11	39	38	+0.2	ENE	3	c	2	47	36	—		
Scilly ...	30.44	44	ENE	7	c	30.42	-0.09	45	43	+0.4	ENE	6	o	4	46	40	—		
Prawle Point ...	30.47	41	ENE	4	o	30.46	-0.07	39	37	+0.1	NE	6	og	4	43	36	—		
Jersey (St. Aubin's)	30.49	44	SE	1	m	30.47	-0.10	39	37	+0.4	E	4	c	3	45	34	—		
Hurst Castle ...	30.49	44	SE	1	m	30.47	-0.10	39	37	+0.4	E	4	c	3	45	34	—		
Dungeness ...	30.48	42	E	3	c	30.44	-0.11	40	38	+0.1	ENE	4	bc	2	44	38	0.01		
London ...	30.53	43	ENE	2	o	30.52	-0.07	35	34	0	NW	1	bc	*	45	34	—		
Oxford ...	30.55	41	NE	2	d	30.55	-0.08	35	34	+0.2	NE	3	c	*	44	32	0.01		
Cambridge ...	30.56	41	N	1	o	30.55	-0.06	35	34	+0.2	N	1	o	*	44	31	—		
Yarmouth ...	30.52	40	ENE	3	CV	30.50	-0.05	37	36	+0.1	NNW	3	c	3	42	32	0.01		
GERMANY & HOLLAND.																			
Cuxhaven ...	30.48	32	NE	2	c	30.44	-0.04	32	30	-0.5	E	2	c	*	32	?	—		
Berlin ...	30.39	36	NNW	2	o	30.38	-0.02	32	31	+0.1	NE	3	o	*	36	30	0.04		
Wiesbaden ...	*	*	*	*	*	30.34	-0.15	36	32	+0.3	NE	2	c	*	?	?	—		
Munich ...	30.34	24	SW	2	o	30.24	-0.17	24	23	-0.1	NE	2	o	*	28	23	0.04		
The Helder ...	30.52	34	SE	2	c	30.43	-0.10	35	35	-0.3	N	2	c	3	41	32	—		
FRANCE AND BELGIUM.																			
Brussels (9 a.m.)	*	*	*	*	*	30.45	-0.12	30	28	+0.3	NNE	2	o	*	38	?	0.04		
Cape Gris Nez ...	?	39	NNE	2	o	?	?	35	33	+0.6	E	4	c	2	41	28	—		
Paris ...	30.44	32	ESE	1	c	30.35	-0.12	34	33	+0.2	NNE	2	c	*	37	25	—		
Brest ...	30.34	38	E	3	bc	30.35	-0.04	34	32	-0.1	E	3	o	2	32	30	—		
Lorient ...	30.33	34	ENE	5	o	30.29	-0.08	34	31	0	ENE	5	c	4	37	32	—		
PENIN. SULA.																			
Rochefort ...	30.30	42	NE	5	c	30.25	-0.06	32	31	-0.2	ENE	6	c	?	50	25	—		
Belfort ...	30.27	32	E	1	c	30.15	?	32	23	0	SE	1	c	*	34	25	—		
Lyons ...	30.35	34	NNW	2	c	30.21	-0.16	27	26	-0.4	N	2	m	*	39	26	—		
Nice ...	30.20	45	SE	4	c	30.02	-0.19	38	35	-0.4	ENE	4	c	1	54	36	—		
Perpignan ...	30.18	46	W.	2	o	30.10	-0.13	43	43	0	NW	2	o	*	46	39	0.32		
Biarritz ...	30.11	46	E	3	c	30.06	-0.10	37	37	0	ESE	5	m	2	48	36	—		
Corunna ...	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	
Lisbon ...	29.70	57	E	1	c	29.73	-0.02	51	50	+0.4	NE	4	o	?	59	?	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 Tuesday, 25th February, 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.

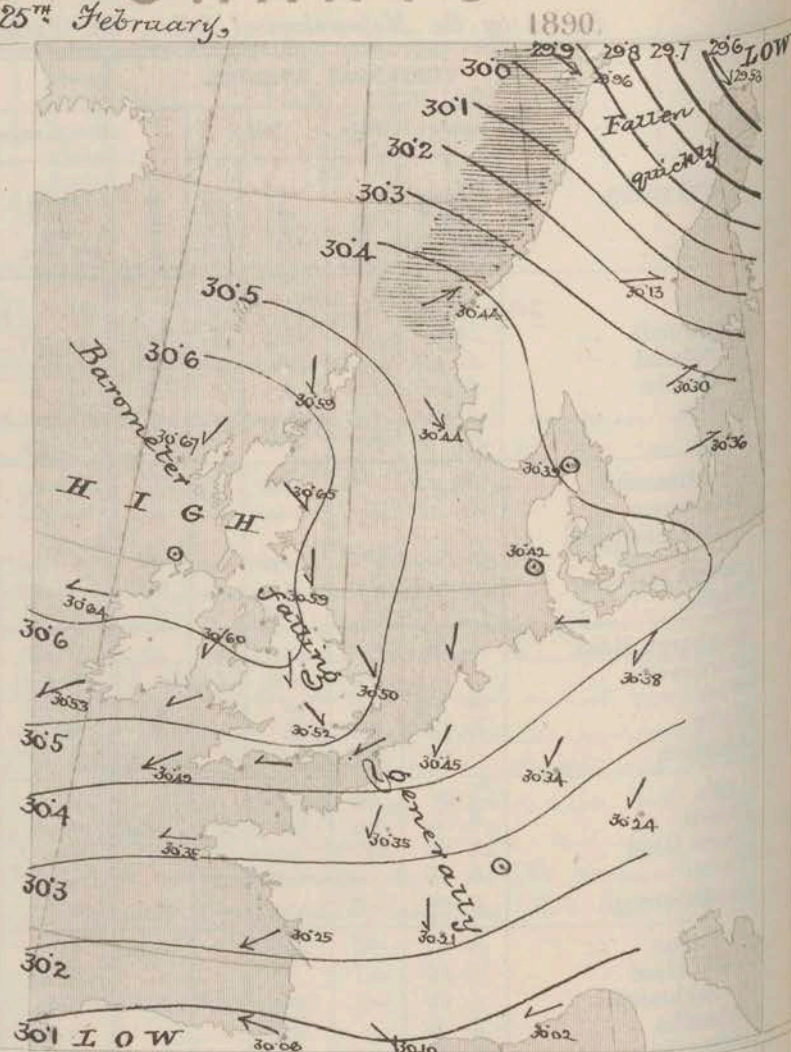
SEA DISTURBANCE—Where considerable, is shown thus:

— = Rough. — = High.

MEAN HEIGHT OF THE BAROMETER

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

STATIONS.	MEAN READINGS.
Sumburgh Head	29.713
Stornoway	29.700
Wick	29.737
Nairn	29.747
Aberdeen	29.780
Leith	29.803
Shields	29.847
York	29.884
Loughborough	29.912
Ardrossan	29.905
Donaghadee	29.812
Holyhead	29.848
Liverpool	29.873
Parsonstown	29.834
Valencia	29.850
Roche's Point	29.850
Pembroke	29.875
Silly	29.911
Jersey	29.975
Hurst Castle	29.944
Dover	29.957
LONDON	29.949
Oxford	29.938
Cambridge	29.935
Yarmouth	29.928



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.

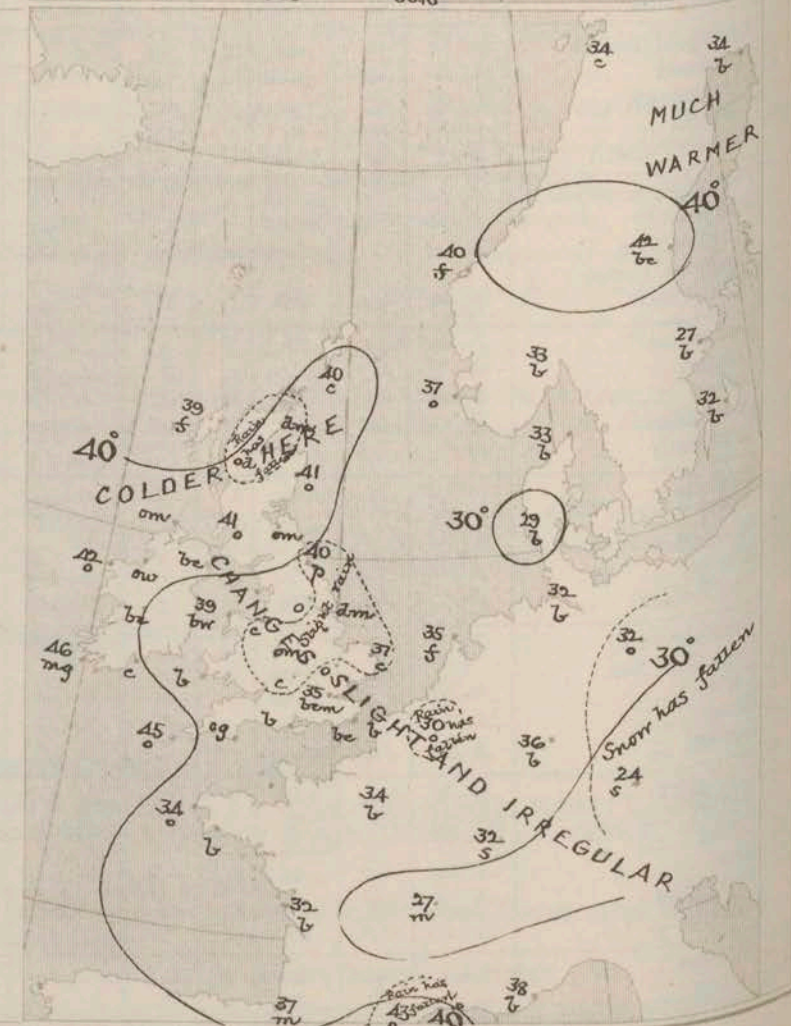
RAINFALL—A dotted line separates the districts in which rain has fallen from those where there has been none. Falls of 0.3 in. or more, are quoted in figures.

MEANS OF TEMPERATURE IN SHADE, AND RAINFALL.

(For the month of February.)

STATIONS.	TEMPERATURE.				RAINFALL. (Inches.)
	Daily Max.	Daily Min.	at 8 a.m.		
			Dry.	Wet.	
Sumburgh Head.....	42.6	34.7	38.7	37.7	3.29
Stornoway	43.5	34.7	39.3	38.2	3.97
Wick	43.4	33.5	38.4	37.0	2.02
Nairn	43.4	33.8	37.4	35.7	1.51
Aberdeen	43.5	34.2	37.8	36.2	2.51
Leith	45.6	34.7	39.2	37.7	1.58
Shields	44.3	35.7	39.2	37.9	1.63
York	45.3	34.2	38.2	37.1	1.88
Loughborough	46.0	34.5	38.4	37.3	2.00
Ardrossan	45.0	36.7	40.0	38.6	3.47
Donaghadee.....	45.8	37.0	40.7	39.7	2.71
Holyhead.....	46.1	39.3	42.3	40.8	2.90
Liverpool.....	45.3	36.9	39.9	38.3	1.85
Parsonstown.....	47.4	36.1	40.1	38.8	2.45
Valencia.....	50.2	40.8	45.1	43.4	5.29
Roche's Point.....	48.9	40.0	43.6	42.2	4.86
Pembroke.....	46.2	40.3	43.1	41.9	3.20
Silly.....	49.7	43.7	46.9	45.3	2.98
Jersey.....	47.6	40.1	43.2	42.0	2.72
Hurst Castle.....	46.5	37.9	41.3	40.4	2.63
Dover.....	45.4	37.4	40.3	39.1	2.12
LONDON.....	46.9	36.0	39.7	38.6	1.89
Oxford.....	45.9	35.9	38.8	37.7	2.06
Cambridge.....	46.4	33.9	38.3	37.3	1.60
Yarmouth.....	43.5	35.2	38.9	38.2	2.02

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 ins: to nearly 30.7 ins: over the British Islands.
 Lowest, about 29.7 ins: over the south of Spain, and 29.6 ins: and less, in the extreme north of Sweden.
 Gradients were rather steep over the northern part of Scandinavia, slight elsewhere.
 Barometer changing very little except in the extreme north.

TEMPERATURE

Highest, 51° at Fife, 46° at Valence, 45° at Scilly, 42° at Bismarck, West, and Linné and.
 Lowest, 24° at Munich, 27° at Stockholm and Lyons, 29° at Paris, 32° at Berlin, 35° in London.
 In London the thermometer rose to 45° yesterday, and for a time the air became damp and misty, this morning it is dry.

WIND

Strong from the Wnd over the northern half of Scandinavia, and from NNW at Skudenes.
 Very light and variable in the north of our islands, light NE^{ly} over Ireland and England and Germany.
 Fresh to strong NE^{ly} over the Channel and Bay of Biscay.

WEATHER

Fine and bright at most of the southern stations - hazy in places; dull and damp in the north, with drizzling rain at several stations.
 A little rainfall was measured this morning at a few places, and a considerable quantity at Perpignan.

SEA

Rather rough off the northwest of Norway, moderate at the mouth of the English Channel, slight or smooth elsewhere.

PROBABLE CHANGES IN SYSTEM NOW PREVALENT

There is no indication of any immediate change of importance.

FORECASTS

For the 24 hours ending at NOON on 26th February, 1890.

DISTRICTS.

FORECASTS.

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

Varying NW^{ly} airs and calms;
 changeable, showery to fine.
 NW^{ly} breezes light; some rain then fine.
 NE^{ly} breezes, moderate; fine, cold.

DISTRICTS.

FORECASTS

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

Varying N^{ly} breezes, light; fair as a whole.
 Same as N° 5.
 NE^{ly} breezes, moderate or light; fine.

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		WEA.	SEA		THER:		WIND		WEA.	SEA
	BAR:	D.	W.	D.				BAR:	D.	W.	D.		
Skudesnaes ...	30.56	44	41	NNW	4	g	3	Holyhead ...	30.64	44	43	NNE	2
Sumburgh Head ...	30.62	45	45	NW	1	g	2	Valencia ...	30.57	50	45	ENE	4
Stornoway ...	30.71	47	47	NE	3	c	3	Scilly ...	30.45	44	41	ENE	7
Aberdeen ...	30.67	46	44	NNW	2	c	2	Jersey ...					
Shields ...	30.63	44	43	NNE	2	o	2	Dungeness ...	30.49	44	41	E	3
Ardrossan ...	30.67	46	45	NW	1	of	1	London ...	30.53	45	43	NNE	2
Malin Head ...	30.69	44	44	NNE	2	o	1	Yarmouth ...	30.52	42	41	NNE	2
Mullaghmore ...	30.67	47	45	N	1	o	2	Rocheport ...	30.29	47	44	E	5
Belmullet ...	30.62	40	46	ENE	3	bc	*						

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

Weather very variable — foggy, misty and damp in many parts of our Islands, clear and bright in other localities, as well as at some of the Continental stations; dull and unsettled over Northern, Eastern, and Southern Europe, with rain at several Mediterranean stations and in the north of Norway, snow at Archangel, ^{St. Petersburg} Riga, Lemberg, Constantinople, and in the south of Russia. Slight rain in several parts of the British Islands later, and 0.3 in. at Conpignan.

Temperature changing irregularly, but decided rise reported over the Baltic, Eastern Germany and many parts of Russia. Highest, 50° to 57° over the southern parts of the Mediterranean, 50° in the northwest of Spain, 40° to 45° in the south of France and at the Irish stations; below the freezing point over Russia, Austria, and Germany, and as low as -10° F. at Hermannstadt, +13° at Lemberg, 17° at Nicolaïeff, 19° at Odessa and Kiev, 20° at Moscow, and 22° at Prague and Warsaw; 8° at Moscow, 10° at Copenhagen, 14° at Uleaborg and Archangel, 20° at St. Petersburg. Rise considerably over the British Islands later, but falling fast again at night.

Wind fresh from the NE² over Spain, the south and west of France, and the English Channel, strong from SW. in the northwest of Norway, light NW¹ in Scotland and on the eastern shores of the North Sea, variable elsewhere, but chiefly NE¹ over Ireland and England. Not much change later.

Barometer highest, 30.5 in. to 30.7 in. in an anticyclone of irregular form lying over the British Isles, the Netherlands, North Sea, and west of Norway. Lowest, 29.8 in. and less, in the southwest of Spain, about 30.0 in. in the extreme north of Russia, and 30.1 in. and less, in a local depression near Rval. Gradients slight to moderate. No important change during the day.

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, 26th February, 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 ...	29.58	23	NW	6	℄	29.48	-10	23	20	-11	NW	4	0	*	36	21	—	
Hernösand ...	29.99	35	NW	4	℄	29.84	-29	24	21	-18	NW	2	℄	*	46	31	—	
Stockholm ...	29.99	36	SW	2	℄	29.76	-54	32	31	+5	N	2	℄	*	45	27	0.16	
Wisby ...	29.14	36	W	4	℄	29.71	-65	33	33	+1	W	6	℄	*	39	25	—	
Bodo ...	29.93	27	WNW	8	℄	29.88	-08	26	24	-8	N	6	℄	4	34	23	—	
Christiansund ...	29.25	29	WNW	4	℄	29.21	-23	29	26	-11	NW	8	℄	6	41	27	0.20	
Skudesnaes ...	29.28	29	WNW	6	℄	29.16	-28	36	31	-1	WNW	9	℄	5	41	36	—	
Christiania Fjord (Fæder)	29.19	32	SPW	2	℄	29.91	-49	31	31	-2	N	5	℄	2	34	28	—	
Skagen (The Scaw)	29.13	34	W	1	℄	29.83	-56	35	34	+2	N	2	℄	2	45	32	—	
Fanø ...	29.30	31	SW	1	℄	29.02	-40	36	36	+7	W	4	m	*	43	28	—	
Sumburgh Head ...	29.45	42	NW	2	℄	29.53	-04	35	32	-5	NNE	3	0	0	44	33	—	
Stornoway ...	29.58	44	NE	3	℄	29.61	-06	41	40	+2	E	6	℄	5	46	37	0.02	
Wick ...	29.52	43	NW	2	0	29.61	-05	39	35	-3	NE	3	0	2	44	37	0.05	
Nairn ...	29.54	43	2	0	0	29.54	-12	41	40	+1	ESE	5	℄	4	44	35	0.02	
Aberdeen ...	29.52	43	NW	3	0	29.50	-15	40	38	-1	NNE	5	cqfu	4	43	40	0.02	
Leith ...	29.53	41	E	1	℄	29.48	-17	36	36	-5	W	1	m	*	46	35	—	
Shields ...	29.48	41	N	3	℄	29.39	-20	42	42	+2	NNE	4	cfd	4	44	38	0.04	
Spurn Head ...	29.38	41	N	6	℄	29.30	-23	42	41	+2	N	5	℄	4	44	39	0.03	
York ...	29.46	43	N	3	0	29.36	-24	42	41	+4	N	3	℄	*	46	37	—	
Loughborough ...	29.42	44	N	3	0	29.34	-25	40	39	+2	N	3	ondp	*	44	37	0.01	
BRITISH ISLANDS.																		
Ardrossan ...	29.51	43	N	1	℄	29.50	-15	37	36	-4	N	1	℄	0	44	36	—	
Malin Head ...	29.56	42	NNE	3	0	29.50	-14	43	40	+2	NE	4	℄	3	44	41	—	
Mullaghmore ...	29.53	45	E	2	℄	29.49	-15	43	41	+2	NE	5	0	4	46	40	—	
Belmullet ...	29.56	45	E	2	℄	29.51	-13	44	43	+2	NNE	5	℄	*	48	42	—	
Donaghadee ...	29.51	44	NE	3	℄	29.49	-16	42	40	+2	NE	4	℄	2	47	39	—	
Liverpool (Bidston)	29.46	40	WNW	1	℄	29.40	-21	39	38	+4	NNE	2	0	3	43	35	—	
Holyhead ...	29.48	42	N	2	℄	29.41	-19	42	40	+3	NE	3	cq	2	45	39	—	
Parsonstown ...	29.51	45	2	0	℄	29.45	-13	41	39	+1	2	0	℄	*	51	34	—	
Valencia ...	29.49	48	NNE	2	℄	29.41	-12	42	40	-4	N	5	℄	5	52	38	—	
Roche's Point...	29.48	44	E	3	℄	29.40	-13	39	37	-4	NE	3	℄	4	50	36	—	
Pembroke (St. Ann's Hd.)	29.40	44	NNE	4	℄	29.35	-17	39	38	0	NE	4	cm	2	50	37	—	
Scilly ...	29.38	45	NE	4	℄	29.26	-16	43	40	-2	ENE	6	om	4	48	41	—	
Prawle Point ...	29.34	43	N	3	℄	29.27	-19	40	39	+1	NE	6	og	4	47	38	—	
Jersey (St. Aubin's)	29.33	44	ENE	4	og	29.27	-20	41	39	+2	E	5	og	3	48	38	—	
Hurst Castle ...	29.21	41	NE	5	℄	29.21	-23	39	36	-4	ENE	4	℄	3	43	37	—	
Dungeness ...	29.35	41	NNE	3	0	29.28	-24	37	36	+2	ENE	2	og	*	43	35	0.01	
London ...	29.36	41	NE	3	0	29.31	-24	39	38	+4	NE	3	og	*	46	35	—	
Oxford ...	29.36	40	N	3	℄	29.30	-25	39	38	+4	NNE	1	0	*	42	34	0.03	
Cambridge ...	29.35	39	NNE	3	odm	29.25	-25	39	38	+2	NNE	2	cf	3	41	35	0.03	
Yarmouth ...	29.35	39	NNE	3	odm	29.25	-25	39	38	+2	NNE	2	cf	3	41	35	0.03	
GERMANY & HOLLAND.																		
Cuxhaven ...	29.37	34	E	1	m	29.20	-24	28	27	-4	WPN	3	℄	*	36	26	—	
Berlin ...	29.39	34	ESE	2	0	29.19	-19	27	26	-5	SPH	2	℄	*	37	27	—	
Wiesbaden ...	29.39	34	ESE	2	0	29.19	-19	27	26	-5	SPH	2	℄	*	37	27	—	
Munich ...	29.10	29	E	6	0	29.09	-15	18	17	-6	2	0	m	*	30	16	—	
The Helder ...	29.32	33	NE	1	℄	29.24	-19	31	31	-4	NW	1	℄	1	37	27	—	
FRANCE AND BELGIUM.																		
Brussels (3 a.m.)	29.32	33	NE	1	℄	29.24	-19	31	31	-4	NW	1	℄	1	37	27	—	
Cape Gris Nez ...	29.32	33	NE	1	℄	29.24	-19	31	31	-4	NW	1	℄	1	37	27	—	
Paris ...	29.18	39	E	5	0	29.13	-22	32	30	-3	E	2	m	2	48	30	—	
Brest ...	29.28	44	NE	4	℄	29.15	-20	43	42	+9	NNE	2	℄	*	52	34	—	
Lorient ...	29.21	44	NE	5	℄	29.12	-17	38	35	+4	ENE	5	℄	4	46	30	—	
Rochefort ...	29.16	41	NE	6	℄	29.05	-20	34	32	+2	NE	6	℄	3	48	27	—	
Belfort ...	29.03	32	SE	1	℄	29.03	-18	31	23	-1	NW	2	℄	*	37	27	—	
Lyons ...	29.99	29	N	2	0	29.97	-23	28	26	+1	N	2	℄	*	33	27	0.04	
Nice ...	29.89	29	NE	5	℄	29.85	-17	42	34	+4	NE	7	0	5	48	36	0.24	
Perpignan ...	29.80	51	E	2	0	29.83	-23	32	32	-11	NW	2	0	*	59	32	0.28	
Biarritz ...	29.54	49	NNE	5	℄	29.88	-18	35	31	-2	ENE	5	om	2	50	32	—	
SPAIN.																		
Corunna ...	29.79	51	NNE	2	0	29.82	+09	51	50	0	NW	4	℄	4	57	50	0.08	
Lisbon ...	29.79	51	NNE	2	0	29.82	+09	51	50	0	NW	4	℄	4	57	50	0.08	

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, 26th February, 1890.

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:

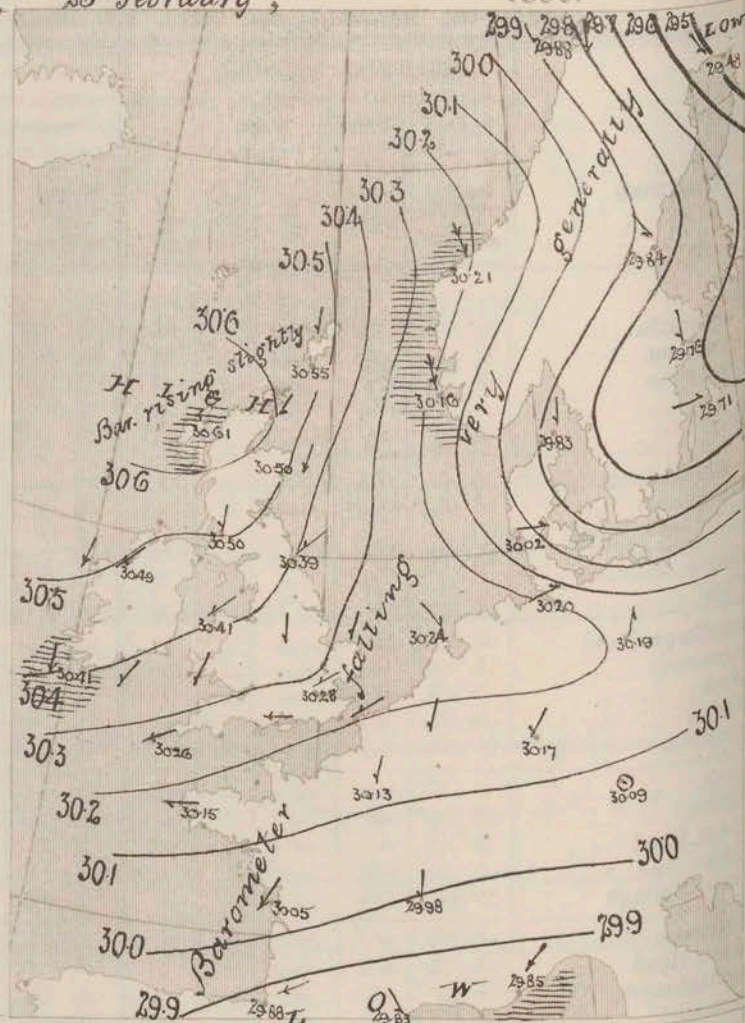
— Rough. — High.

MEAN HEIGHT OF THE BAROMETER

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

During the 15 Years: 1871—1885.

STATIONS.	MEAN READINGS.
	<i>INCH.</i>
Sumburgh Head.....	29.713
Stornoway.....	29.700
Wick.....	29.737
Nairn.....	29.747
Aberdeen.....	29.780
Leith.....	29.803
Shields.....	29.847
York.....	29.884
Loughborough.....	29.912
Ardrossan.....	29.805
Donaghadee.....	29.812
Holyhead.....	29.848
Liverpool.....	29.873
Parsonstown.....	29.834
Valencia.....	29.850
Roche's Point.....	29.850
Pembroke.....	29.875
Silly.....	29.911
Jersey.....	29.975
Hurst Castle.....	29.944
Dover.....	29.957
LONDON.....	29.949
Oxford.....	29.938
Cambridge.....	29.935
Yarmouth.....	29.928



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

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

WEATHER—is shown by Letters of the Beaufort Scale.

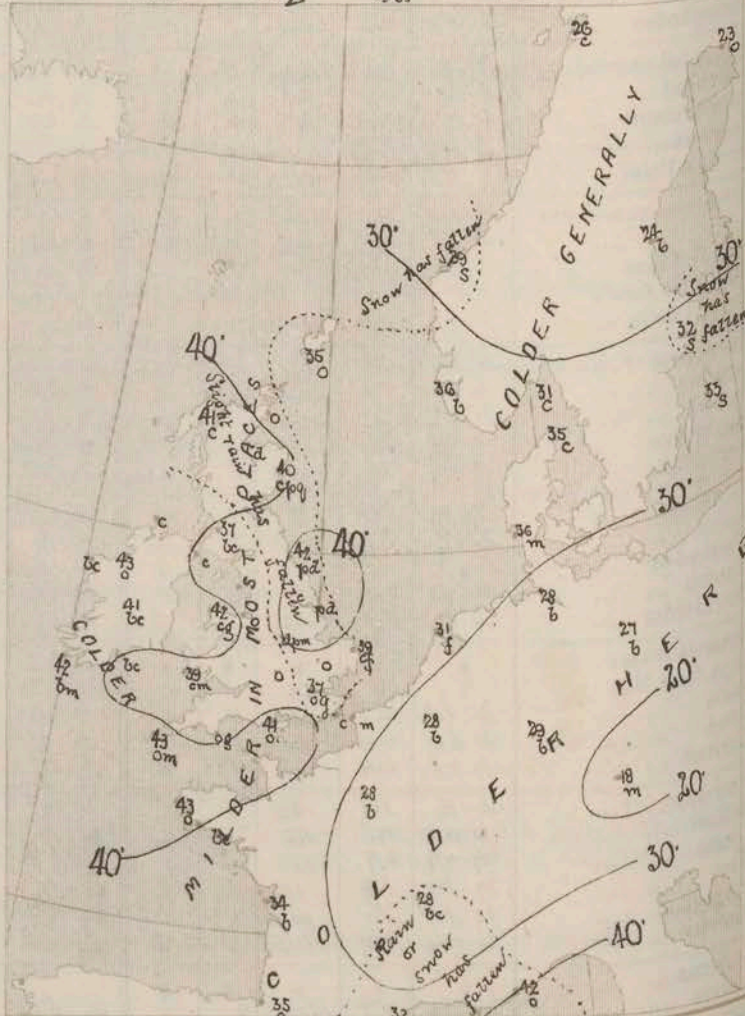
RAINFALL—A dotted line separates the districts in which rain has fallen from those where there has been none. Falls of 0.5 in. or more, are quoted in figures.

MEANS OF TEMPERATURE IN SHADE, AND RAINFALL.

(For the month of February.)

STATIONS.	TEMPERATURE.				RAINFALL (Inches.)
	Daily Max.	Daily Min.	at 8 a.m. Dry.	Wet.	
Sumburgh Head.....	42.6	34.7	38.7	37.7	3.29
Stornoway.....	43.5	34.7	39.3	38.2	3.97
Wick.....	43.4	33.5	38.4	37.0	2.02
Nairn.....	43.4	33.8	37.4	35.7	1.51
Aberdeen.....	43.5	34.2	37.8	36.2	2.51
Leith.....	46.6	34.7	39.2	37.7	1.58
Shields.....	44.3	35.7	39.2	37.9	1.63
York.....	45.3	34.2	38.2	37.1	1.88
Loughborough.....	46.0	34.5	38.4	37.3	2.00
Ardrossan.....	45.0	39.7	40.0	38.6	3.47
Donaghadee.....	45.8	37.0	40.7	39.7	2.71
Holyhead.....	46.1	39.3	42.3	40.8	2.90
Liverpool.....	45.3	36.9	39.9	38.3	1.85
Parsonstown.....	47.4	36.1	40.1	38.8	2.45
Valencia.....	50.2	40.8	45.1	43.4	5.29
Roche's Point.....	48.9	40.0	43.6	42.2	4.86
Pembroke.....	46.2	40.3	43.1	41.9	3.20
Silly.....	49.7	43.7	46.9	45.3	2.98
Jersey.....	47.6	40.1	43.2	42.0	2.72
Hurst Castle.....	46.5	37.9	41.3	40.4	2.63
Dover.....	45.4	37.4	40.3	39.1	2.12
LONDON.....	46.9	36.0	39.7	38.6	1.89
Oxford.....	45.9	35.9	38.8	37.7	2.06
Cambridge.....	46.4	33.9	38.3	37.3	1.60
Yarmouth.....	43.5	35.2	38.9	38.2	2.02

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 ins. to 30.6 ins. in an anticyclone lying over the northern parts of the country.
Lowest, 29.4 ins. and less, over Northern Europe, and 29.8 ins. and less over Spain.

Gradients steep over Scandinavia and the northern parts of the North Sea.

Barometer rising a little in the north of Scotland, falling elsewhere, most over the south of Sweden and in Denmark.

TEMPERATURE

Highest, 51° at Linton, 44° at Bilmullet, 43° at Malin, 42° at Scilly and Brest, 42° in the northeast of England and at Nice, and 41° at Doncaster, Linn and Huntly.
Lowest, 18° at Harwich, 23° at Copenhagen, 24° at Stockholm, 26° at Rode, 27° at Berlin, 28° at Paris and Lyons, and 29° at Christiansund, Nicobar and Belfast.

It has risen in most parts of our Islands and in the west of France, fallen elsewhere, quickly over the Gulf of Bothnia.

WIND

Strong to a gale from the N.W. on the west coast of Norway, light from N.E. over Central France and the Netherlands.

Over our Islands the wind remains N. and N.E. and blows fresh, or strongly, in many places.

WEATHER

Fine in Ireland, over Central France and North Germany, as well as at Stockholm and St. Petersburg, dull or cloudy elsewhere, with slight rain on our east and southeast coasts, snow at some of the Scandinavian stations, and also at Perpignan.

SEA

Rough at Christiansund, rather rough at Stormoy and Valeney, moderate or slight elsewhere.

PROBABLE CHANGES IN SYSTEM NOW PREVALENT

N. and N.E. winds are likely to remain general, with dull weather in most places, and occasional cold rain on our east and southeast coasts.

FORECASTS

For the 24 hours ending at NOON on 27th FEB^y 1890.

DISTRICTS.

FORECASTS.

DISTRICTS.

FORECASTS

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

NE^y winds, fresh; dull, some cold showers.

N. and NE^y winds, moderate or fresh; cloudy, slight rain at times.

E^y winds, fresh; dull, slight rain occasionally.

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

Same as N^o 0 to 2.

Same as N^o 5.

Same as N^o 0 to 2.

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							
BAR: D. W. D. F. WEA. SEA								BAR: D. W. D. F. WEA. SEA							
Skudesnaes ...	30.39	40	39	NNW	1	cf	4	Holyhead ...	30.53	44	43	NNE	2	cf	1
Sumburgh Head ...	30.53	43	43	NW	2	n	2	Valencia ...	30.51	51	46	E	3	bc	3
Stornoway ...	30.62	45	45	NE	2	o	2	Scilly ...	30.40	44	42	ENE	6	bc	4
Aberdeen ...	30.59	43	41	NW	3	o	3	Jersey ...	30.37	39	37	NE	6	o	4
Shields ...	30.53	43	42	N	3	odp	2	Dungeness ...	30.41	42	40	NE	4	om	4
Ardrossan ...	30.55	44	43	NW	1	o	1	London ...	30.41	41	40	NNE	4	c	4
Malin Head ...	30.61	43	43	NW	1	o	0	Yarmouth ...	30.19	46	43	ENE	6	cf	2
Mullaghmore ...	30.60	45	43	ENE	4	cf	2	Rochefort ...							
Belmullet ...	30.60	48	45	ENE	2	cf	*								

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

Weather in morning fine and bright over the Bay of Biscay, France, several parts of our Islands, the Eastern shore of the North Sea, Sweden and Finland, cloudy or overcast elsewhere, with snow in some parts of Germany and the south of Russia, slight rain in the north and east of our Islands, and fog or mist in many places. Drizzling rain continuing in north and east during day, rain and snow in south of France.

Temperatures exceeding 50° over southern and western parts of Mediterranean and western parts of Spain, exceeding 40° in Ireland and Scotland, but below the freezing point over Northern and Eastern Europe and in several parts of Germany and France. Lowest morning values 12° F. at Kharkov, 13° at Kamaninsk, 16° at Kiev, 18° at Odessa and Lemberg, 19° at Moscow; rising fast over Northern and Central Europe. Not much change in our Islands later.

Wind strong to gale from West (SW to NW) over Northern Europe, fresh from the E over the Adriatic, Italy, the Bay of Biscay and English Channel. Light NE in most other places, but very variable over Scotland and Eastern Europe.

Barometer highest, 30.4 ins. to 30.6 ins. and more, over Northwestern Europe and the British Isles, 30.4 ins. to 30.5 ins. and more, over the southern half of Russia; lowest 29.3 ins. and less, in a depression over Northern Europe, 29.8 ins. and less, off the southwest and south of Spain, lowest 30.0 ins. and less, over the Mediterranean. Falling irregularly, but not rapidly over the British Isles all day.

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 27th February 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 1.)	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 ...	29.52	17	NW	4	c	29.75	+0.27	12	11	-11	N	4	c	*	27	?	—	
Hernösand ...	29.79	23	NNW	6	c	29.80	+0.01	16	15	-1	N	6	c	*	36	?	—	
Stockholm ...	29.74	21	NW	4	c	29.73	-0.01	18	15	-14	NNW	4	c	*	37	?	0.00	
Wisby ...	29.73	20	NNE	7	c	29.71	0.0	26	24	-2	N	8	c	*	36	2.3	0.00	
Bodo ...	29.91	22	NNW	6	c	30.06	+0.15	22	20	-4	SE	2	c	1	27	10	—	
SCANDINAVIA.																		
Christiansund	30.24	29	NW	5	s	30.08	-0.16	24	23	-1	NNW	3	s	5	?	21	0.12	
Skudesnaes ...	30.35	31	NNW	7	bc	30.13	-0.22	26	25	-1	NNW	7	s	4	36	?	—	
Christiania Fjord (Færder)	30.09	30	NNW	5	c	29.96	+0.13	26	22	-4	NNW	3	bc	1	34	?	—	
Skagen (The Scaw)	30.06	31	N	6	c	29.96	+0.10	30	?	-5	N	3	bc	4	36	20	—	
Fanø ...	29.94	28	N	2	c	30.07	+0.13	32	30	-4	NW	4	c	*	43	25	—	
SCANDINAVIA.																		
Sumburgh Head	30.61	33	N	4	o	30.45	-0.16	30	?	-5	N	4	bc	4	35	20	0.01	
Stornoway ...	30.73	37	E	5	o	30.66	+0.07	35	34	-1	N	6	c	5	41	32	—	
Wick ...	30.70	36	N	3	o	30.57	-0.13	33	32	-1	N	4	s	2	39	31	0.05	
Nairn ...	30.69	38	ESE	4	o	30.61	+0.07	33	32	-1	ESE	3	c	2	41	32	0.01	
Aberdeen ...	30.64	36	N	4	o	30.53	+0.11	33	31	-2	NW	3	bc	5	41	32	0.01	
SCANDINAVIA.																		
Leith ...	30.63	38	NE	3	c	30.58	+0.05	35	32	-3	NW	2	c	*	44	33	—	
Shields ...	30.55	40	N	6	o	30.51	+0.06	34	33	-1	NW	3	c	*	45	33	0.01	
Spurn Head ...	30.42	41	NNE	7	c	30.42	+0.00	36	35	-1	NNW	6	bc	4	43	33	0.02	
York ...	30.40	40	N	4	o	30.51	+0.11	34	33	-1	N	2	o	*	47	33	0.02	
Loughborough	30.43	40	NNE	4	o	30.51	+0.08	35	33	-2	NNW	3	o	*	47	34	0.02	
BRITISH ISLANDS.																		
Ardrossan	30.66	39	NNE	1	c	30.62	+0.04	36	33	-3	NNW	1	c	0	44	32	—	
Malin Head ...	30.60	42	NE	4	o	30.67	+0.07	38	34	-4	NNW	4	o	2	45	37	—	
Mullaghmore ...	30.59	46	NE	4	o	30.69	+0.10	39	32	-7	N	0	o	0	46	33	—	
Belmullet ...	30.60	45	ESE	3	o	30.69	+0.09	34	32	-2	NE	3	o	*	46	32	—	
Donaghadee ...	30.60	42	ESE	4	bc	30.65	+0.05	37	35	-2	NE	5	c	3	46	37	—	
BRITISH ISLANDS.																		
Liverpool (Bidston)	30.51	40	NE	5	c	30.58	+0.07	35	34	-1	N	2	o	3	44	35	—	
Holyhead ...	30.49	43	ESE	5	o	30.60	+0.11	38	35	-7	NE	4	c	3	45	36	—	
Parsonstown ...	30.52	44	NE	1	c	30.66	+0.14	35	32	-3	NE	1	c	*	44	34	—	
Valencia ...	30.49	43	NE	4	bc	30.62	+0.13	33	36	+3	ESE	3	bc	3	48	36	—	
Roche's Point ...	30.48	44	E	3	c	30.59	+0.11	39	36	-3	ESE	4	o	4	46	36	—	
BRITISH ISLANDS.																		
Pembroke (St. Ann's Hd.)	30.40	43	NE	3	bc	30.56	+0.16	37	34	-3	ESE	4	c	2	45	36	—	
Seilly ...	30.33	45	ESE	6	o	30.49	+0.16	39	36	-3	ESE	6	o	4	48	38	—	
Prawle Point ...	30.31	?	NE	5	c	30.46	+0.15	37	34	-3	ESE	7	c	5	42	36	—	
Jersey (St. Aubin's)	30.29	44	E	4	o	30.46	+0.17	36	34	-2	E	2	c	2	44	34	—	
Hurst Castle ...	30.29	44	E	4	o	30.46	+0.17	36	34	-2	E	2	c	2	44	34	—	
BRITISH ISLANDS.																		
Dungeness ...	30.22	42	NE	5	o	30.35	+0.13	38	33	-5	NE	6	o	4	43	36	—	
London ...	30.34	41	NE	4	o	30.44	+0.10	35	33	-2	N	2	bc	*	44	33	—	
Oxford ...	30.43	38	NE	4	o	30.49	+0.06	34	32	-2	NE	3	c	*	44	33	0.01	
Cambridge ...	30.39	39	NNE	4	o	30.45	+0.06	34	33	-1	N	1	s	*	45	30	0.04	
Yarmouth ...	30.31	39	NNW	7	c	30.37	+0.06	36	34	-2	N	5	c	4	42	35	0.01	
GERMANY & HOLLAND.																		
Cuxhaven ...	30.01	35	N	4	o	30.12	+0.11	32	31	+1	H	2	c	*	39	30	—	
Berlin ...	29.85	35	NNW	4	o	30.07	-0.12	25	23	-2	NW	4	c	*	36	23	—	
Wiesbaden ...	29.84	30	*	*	*	30.21	+0.04	31	28	+3	N	2	c	*	45	?	—	
Munich ...	29.94	30	ESE	1	c	30.03	-0.06	27	27	0	NE	5	s	*	36	18	0.12	
The Helder ...	30.24	37	NNW	5	c	30.32	+0.08	34	31	-3	N	2	bc	2	41	33	—	
FRANCE AND BELGIUM.																		
Brussels (9 a.m.)	*	*	*	*	*	30.34	+0.11	30	28	-2	NNW	3	c	*	39	?	0.04	
Cape Gris Nez	*	41	*	*	*	?	?	37	28	+9	E	5	o	5	43	18	—	
Paris ...	30.14	38	N	4	c	30.30	+0.16	22	28	+6	NNW	4	bc	*	45	?	—	
Brest ...	30.21	43	E	4	o	30.35	+0.14	40	37	-3	ESE	4	o	2	52	34	—	
Lorient ...	30.15	41	NE	5	c	30.29	+0.14	39	35	-4	ESE	6	o	4	45	36	—	
FRANCE AND BELGIUM.																		
Rochefort ...	30.08	44	NE	5	c	30.21	+0.13	36	35	+1	NE	6	o	?	50	27	—	
Belfort ...	30.03	33	N	1	c	30.02	+0.05	34	24	+10	N	2	c	*	41	23	—	
Lyons ...	30.03	40	W	1	bc	30.06	+0.03	31	28	+3	NNW	3	c	*	44	?	—	
Nice ...	29.90	46	NE	5	o	29.76	-0.14	41	36	-5	ESE	4	c	2	48	39	—	
Perpignan ...	29.88	34	W	3	c	29.88	+0.00	41	41	0	W	3	o	*	?	32	1.30	
Biarritz ...	29.90	38	NE	4	o	29.98	+0.08	42	39	-3	NW	3	o	2	43	34	—	
SPAIN.																		
Corunna ...	29.77	30	N	6	c	29.84	+0.07	49	42	-7	ESE	5	c	5	59	43	—	
Lisbon ...	29.77	30	N	6	c	29.84	+0.07	49	42	-7	ESE	5	c	5	59	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

Thursday, 27th February,

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:

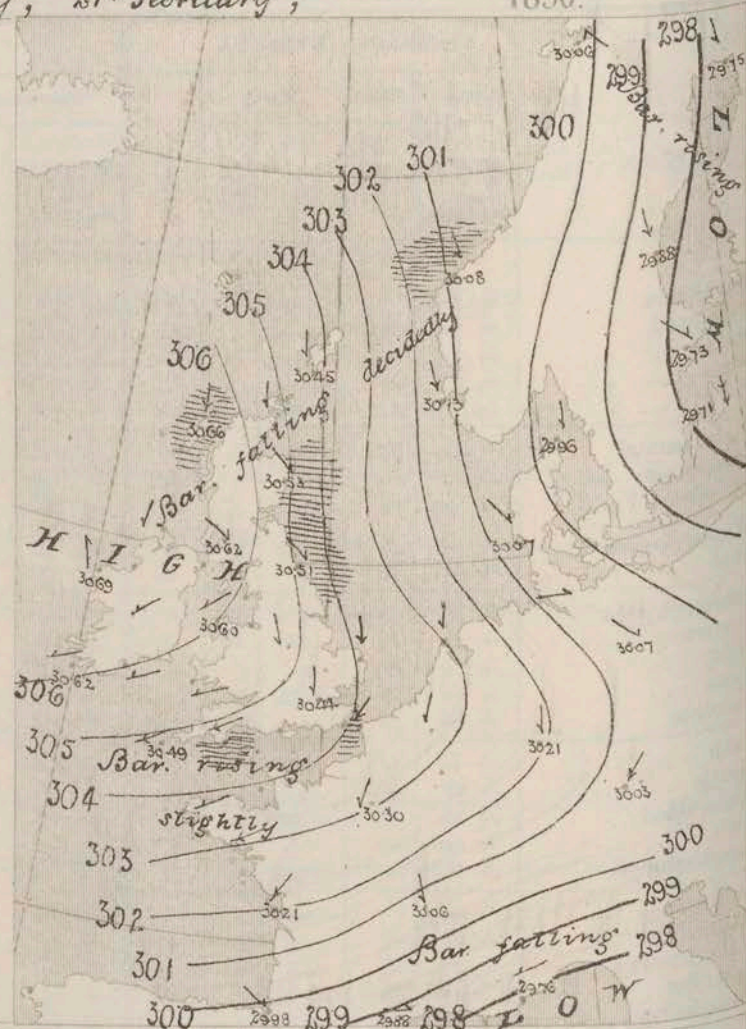
▨ = Rough. ▨ = High.

MEAN HEIGHT OF THE BAROMETER

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

During the 15 Years: 1871—1885.

STATIONS.	MEAN READINGS.
Sumburgh Head	29.713
Stornoway	29.700
Wick	29.737
Nairn	29.747
Aberdeen	29.780
Leith	29.803
Shields	29.847
York	29.884
Loughborough	29.912
Ardrossan	29.805
Donaghadee	29.812
Holyhead	29.848
Liverpool	29.873
Parsonstown	29.834
Valencia	29.850
Roche's Point	29.850
Pembroke	29.875
Sailly	29.911
Jersey	29.975
Hurst Castle	29.944
Dover	29.957
LONDON	29.940
Oxford	29.938
Cambridge	29.935
Yarmouth	29.928



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

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

WEATHER is shown by Letters of the Beaufort Scale.

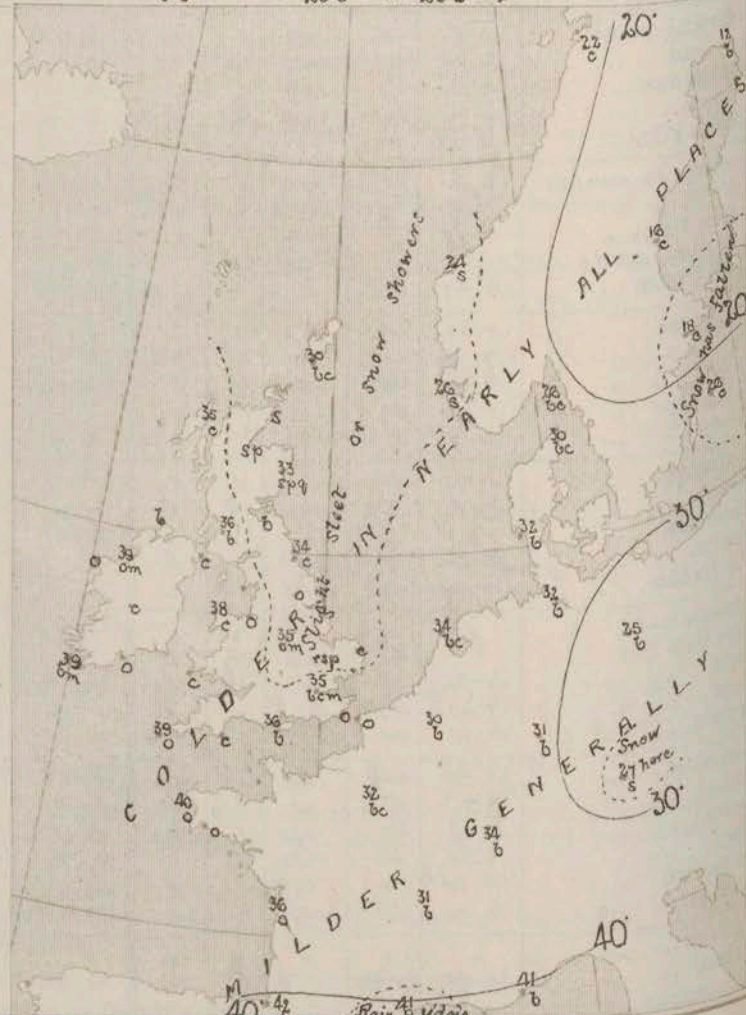
RAINFALL—A dotted line separates the districts in which rain has fallen from those where there has been none. Falls of 0.5 in. or more, are quoted in figures.

MEANS OF TEMPERATURE IN SHADE, AND RAINFALL.

(For the month of February.)

STATIONS.	TEMPERATURE.				RAINFALL. (Inches.)
	Daily	Daily	At 8 a.m.		
	Max.	Min.	Dry.	Wet.	
Sumburgh Head.....	42.6	34.7	38.7	37.7	3.29
Stornoway	43.5	34.7	39.3	38.2	3.97
Wick.....	43.4	33.5	38.4	37.0	2.02
Nairn.....	43.4	33.8	37.4	35.7	1.51
Aberdeen.....	43.5	31.2	37.8	36.2	2.51
Leith.....	46.6	34.7	39.2	37.7	1.58
Shields.....	44.3	35.7	39.2	37.9	1.63
York.....	45.3	34.2	38.2	37.1	1.83
Loughborough.....	46.0	34.5	38.4	37.3	2.00
Ardrossan.....	45.0	36.7	40.0	38.6	3.47
Donaghadee.....	45.8	37.0	40.7	39.7	2.71
Holyhead.....	46.1	39.3	42.3	40.8	2.00
Liverpool.....	45.3	36.0	39.9	38.3	1.85
Parsonstown.....	47.4	36.1	40.1	38.8	2.45
Valencia.....	50.2	40.8	45.1	43.4	5.29
Roche's Point.....	48.9	40.0	43.6	42.2	4.86
Pembroke.....	46.2	40.3	43.1	41.9	3.20
Sailly.....	49.7	43.7	46.9	45.3	2.98
Jersey.....	47.6	40.1	43.2	42.0	2.72
Hurst Castle.....	46.5	37.9	41.3	40.4	2.03
Dover.....	45.4	37.4	40.3	39.1	2.12
LONDON.....	46.9	36.0	39.7	38.6	1.80
Oxford.....	45.9	35.9	38.8	37.7	2.06
Cambridge.....	46.4	33.9	38.3	37.3	1.60
Yarmouth.....	43.5	35.2	38.9	38.2	2.02

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, 30.6 in. and more in an anticyclone lying over Ireland and the east of Scotland.
 Lowest, 29.8 in. and less, over the Baltic and east of Sweden, and also over the Gulf of Lion.
 Gradients rather steep over the North Sea and in the south of France, moderate elsewhere.
 Barometer falling in the north of Scotland and west of Norway, rising in most other places.

TEMPERATURE

Highest, 42° at Biarritz, 41° at Aix and Perpignan, 40° at Brest and 38° at Grimsby, Valencia and Rochester.
 Lowest, 12° at Kaparanda, 16° at Hernösand, 18° at Stockholm, 25° at Berlin, 26° at Nisby, 27° at Munich.
 It has fallen somewhat except over France and Germany.

WIND

N^W and NE^W over the whole of Western Europe, blowing freshly or strongly except in the west of our Islands and east of France.

WEATHER

Cloudy with occasional sleet or snow showers in Scotland and the east of England as well as in the west of Norway and at Munich. Very heavy rain has fallen at Perpignan during the past twenty-four hours.

SEA

Rather rough at several of our northern, eastern, and southern stations, slight in the west.

PROBABLE CHANGES IN SYSTEM NOW PREVALENT

The fall of the barometer in the north points to the advance of depressions which may travel in a southerly direction and cause an increase in the force of the wind in Scotland and on the east coast of England, with showers of sleet or snow in these districts.

FORECASTS

For the 24 hours ending at NOON on 28th FEB^{ry} 1890.

DISTRICTS.

FORECASTS.

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

NW^W to N^W winds, strong; squally, some cold showers.
 N^W winds, fresh; cloudy, some showers.
 NE^W winds, moderate; fair as a whole.
 NE^W and E^W winds, fresh or strong; cloudy, some cold showers.

DISTRICTS.



FORECASTS

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

N^W and NE^W winds, moderate or fresh; fair but perhaps some cold showers.
 E^W winds, strong; fair as a whole.
 Same as N^W 6 and 7.
 E^W winds, moderate or fresh; fair generally.

WARNINGS

NONE ISSUED.

No. 4.—The South Cone, point downwards (), means that gales, or strong winds, are probable at first from the Southward (from S.E. round by S. to N.W.). Should it appear likely that a gale beginning from between W. and N.W. is likely to veer towards N. or N.E., the North Cone is hoisted in preference to the South Cone.
 The North Cone, point upwards (), means that gales, or strong winds, are probable, at first from the Northward (from N.W. round by N. to S.E.). Should it appear likely that a gale beginning from between E. and S.E. is likely to veer towards S. or S.W., the South Cone is hoisted in preference to the North Cone.

YESTERDAY'S 2 P.M. REPORTS.

	BAR:	THER:		WIND		WEA.	SEA		BAR:	THER:		WIND		WEA.	SEA
		D.	W.	D.	F.					D.	W.	D.	F.		
Skudesnaes ...	30.26	35	29	NNW	9	bc	5	Holyhead ...	30.45	44	43	NNW	4	0	5
Sumburgh Head ...	30.59	35	32	N	4	c	4	Valencia ...	30.45	44	44	NNE	6	0	4
Stornoway ...	30.72	33	37	E	5	0	5	Scilly ...	30.29	44	42	ENE	6	0	4
Aberdeen ...	30.61	38	33	N	6	0	5	Jersey ...							
Shields ...	30.49	43	40	NE	5	0	5	Dungeness ...	30.22	41	39	NE	5	0	3
Ardrossan ...	30.58	44	40	NW	1	bc	1	London ...	30.27	43	41	NNE	3	omg	4
Malin Head ...	30.57	45	42	NE	3	0	2	Yarmouth ...	30.24	42	41	NNE	4	cfp	4
Mullaghmore ...	30.53	46	42	ENE	5	0	3	Rocheport ...	30.02	46	42	NE	6	0	3
Belmullet ...	30.53	46	44	E	4	0	*								

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

Weather fine in Central Europe, France, Spain, the Bay of Biscay, and western parts of the British Islands, cloudy or overcast elsewhere, with snow at some of the Scandinavian stations, snow and rain in the south of France, and slight rain over the northern and eastern parts of Great Britain. Rain at times (in very small quantity) in London during day, but weather improving in Scotland.

Temperature highest 50° to 51° over the southern parts of the Mediterranean and south of Spain only, 49° at Bouma, 44° at Belmullet, 43° at Scilly and Malin Head, 40° at Loughborough and Aberdeen; much below the freezing point over Russia and Central Europe, and as low as (1) -1° F. at Hermannstadt, 19° at Lemberg, 15° at Odesa and Kiev, 14° at Odessa, 18° at Munich, and 19° at Kassel, (2) 17° at Kaspia, 18° at Archangel, 22° at St. Petersburg and Moscow. Falling in the north of our Islands later.

Wind W³ to NW³ over Northern Europe (a gale in several places), N³ to NE³ over the British Islands and Western Europe generally (light to fresh), E³, strong to gale on the northern shores of the Mediterranean, SE³ at Cagliari. Very light and variable over Germany, Austria-Hungary, southern and Central Russia. Wind increasing considerably over the British Isles and North Sea later — blowing a moderate gale at some of the more easterly of our stations.

Barometer highest, 30.2 ins. to 30.6 ins. and more over the British Isles, 30.2 ins. to nearly 30.4 ins. over Southern Europe, lowest 29.0 ins. and less, in a large depression over the northeast of Russia, 29.7 ins. and less, in a small secondary over the Baltic, and also in a larger disturbance over the western portion of the Mediterranean. Russian anticyclone giving way. Northern depressions moving southwards later, and barometer rising over Northwestern Europe.

EXPLANATION OF COLUMNS GIVEN ON PAGE 1.

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

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

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

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DAILY WEATHER REPORT.

for Friday 28th February.

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 5.)	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 ...	30.01	6	N	4	b	30.04	+29	1	-1	-11	NNW	4	b	*	19	?	-	
Hernösand ...	30.06	17	NNW	4	b	30.10	+22	10	10	-6	NNW	4	b	*	20	?	-	
Stockholm ...	29.90	20	NW	4	c	29.98	+25	13	12	-5	NNW	6	bc	*	23	?	0.04	
Wisby ...	29.81	27	N	6	o	29.89	+18	24	24	-2	N	6	bc	*	20	23	0.12	
Bodö ...	30.19	22	N	2	b	30.23	+17	13	11	-9	E	2	b	1	25	?	-	
Christiansund	30.27	28	ESE	3	s	30.18	+10	27	27	+3	2	0	s	5	30	?	0.35	
Skudesnaes ...	30.29	27	N	2	b	30.24	+11	25	23	-1	ENE	1	b	2	30	23	-	
Christiania Fjord (Fæder)	30.10	26	N	7	b	30.18	+22	23	20	-3	NNW	4	b	1	27	21	-	
Skagen (The Scaw)	30.07	26	NE	6	bc	30.15	+19	25	22	-5	NE	3	b	4	32	23	-	
Fanö ...	30.04	22	N	6	b	30.19	+12	21	19	-11	N	4	b	*	36	19	-	
BRITISH ISLANDS.																		
Sumburgh Head	30.50	31	NE	4	c	30.30	-06	30	29	0	N	2	csp	4	32	27	0.01	
Stornoway ...	30.63	35	N	6	o	30.50	-16	35	34	0	NW	3	s	4	38	31	0.01	
Wick ...	30.50	34	NE	5	c	30.45	-12	32	31	-1	NW	2	c	2	37	29	0.05	
Nairn ...	30.57	34	NNE	5	o	30.50	-11	32	30	-1	2	0	c	1	38	30	0.01	
Aberdeen ...	30.52	32	NNW	4	bcsp	30.46	-07	30	29	-3	NNW	3	bcsp	5	37	29	0.03	
GERMANY & HOLLAND.																		
Leith ...	30.53	37	N	2	c	30.51	-07	31	30	-4	NNW	1	c	*	41	30	-	
Shields ...	30.44	36	N	5	c	30.45	-06	30	30	-4	NW	3	c	6	39	29	0.15	
Spurn Head ...	30.31	35	N	7	bc	30.38	-04	33	31	-3	NW	5	bcsp	4	38	30	0.13	
York ...	30.41	33	N	3	sp	30.49	-02	29	29	5	N	2	s	*	40	25	0.03	
Loughborough	30.41	35	N	4	c	30.46	-05	29	28	-6	NW	2	bm	*	40	27	-	
FRANCE AND BELGIUM.																		
Ardrossan	30.56	36	N	2	bc	30.55	-07	32	30	-4	NNW	1	bc	0	42	30	-	
Malin Head ...	30.59	38	NNE	5	bc	30.58	-09	37	33	-1	NNE	2	o	1	40	36	-	
Mullaghmore ...	30.56	40	NE	5	csp	30.60	-09	37	34	-2	ESE	1	o	1	42	35	0.01	
Belmullet ...	30.64	39	N	1	o	30.62	-07	37	35	+3	WNW	1	o	*	41	33	-	
Donaghadee ...	30.53	40	ENE	5	c	30.58	-07	37	36	0	NE	4	c	3	42	36	-	
PORTUGAL.																		
Liverpool (Bidston)	30.48	34	N	3	b	30.51	-07	32	31	-3	NNE	2	b	3	39	29	-	
Holyhead ...	30.51	39	NNE	5	o	30.55	-05	36	33	-2	NNE	4	bc	3	40	35	-	
Parsonstown ...	30.57	37	2	0	c	30.60	-06	31	30	-4	2	0	c	*	38	31	-	
Valencia ...	30.60	39	NE	3	oa	30.60	-02	37	33	-2	NNE	1	c	2	42	32	-	
Roche's Point...	30.57	37	NE	4	c	30.56	-03	35	32	-4	NNE	3	b	4	45	33	-	
AFRICA.																		
Pembroke (St. Ann's Hd.)	30.48	36	NE	4	bc	30.54	-02	34	32	-3	ENE	2	b	1	41	33	-	
Scilly ...	30.42	40	NNE	6	bc	30.49	0.0	39	35	0	ENE	4	bc	4	42	37	-	
Prawle Point ...	30.41	35	N	3	c	30.48	+02	32	30	-5	N	3	b	2	38	27	-	
Jersey (St. Aubin's)	30.34	40	ENE	4	csp	30.42	37	32	32	-5	NNE	3	bc	3	48	35	-	
Hurst Castle ...	30.37	36	NE	4	bm	30.44	-02	32	30	-4	NE	4	bm	2	40	29	-	
INDIA.																		
Dungeness	30.27	35	N	5	csp	30.34	-01	29	29	-9	N	5	c	3	42	26	-	
London ...	30.34	35	NNE	4	b	30.41	-03	30	29	-5	N	3	b	*	40	28	0.02	
Oxford ...	30.40	33	ENE	4	b	30.47	-02	28	27	-6	N	2	b	*	40	27	-	
Cambridge ...	30.34	33	N	3	b	30.43	-02	29	27	-5	N	2	s	*	42	24	?	
Yarmouth ...	30.24	36	N	6	csp	30.33	-04	34	32	-2	NNE	5	bc	5	39	30	0.04	
AFRICA.																		
Cuxhaven	29.89	29	NNW	4	s	30.14	+02	25	24	-7	NNE	5	b	*	34	23	-	
Berlin ...	29.80	28	SW	4	s	29.89	-18	23	22	-2	NE	5	o	*	32	21	0.20	
Wiesbaden ...	*	*	*	*	*	29.99	-22	23	22	-8	NW	4	bc	*	37	23	0.32	
Munich ...	29.99	16	2	0	b	29.88	-15	21	20	-6	NW	5	s	*	28	12	0.04	
The Helder ...	30.09	35	NNW	7	s	30.26	-06	29	27	-5	NNE	4	b	4	37	28	0.08	
AFRICA.																		
Brussels (8 a.m.)	*	*	*	*	*	30.26	-08	26	23	-4	N	3	b	*	39	24	0.04	
Cape Gris Nez	*	36	NNE	6	o	?	?	33	32	-4	NE	7	c	*	43	32	-	
Paris ...	30.22	34	NE	2	c	30.24	-06	27	25	-5	NNE	4	b	7	41	27	-	
Brest ...	30.34	38	NE	3	o	30.38	+03	37	36	-3	ENE	2	o	2	50	36	0.04	
Lorient ...	30.26	39	ENE	5	o	30.38	+09	35	32	-4	NE	3	bc	2	41	34	-	
AFRICA.																		
Rochefort	30.20	29	NE	6	b	30.30	+09	33	32	-3	NE	6	b	?	46	25	-	
Belfort ...	30.00	24	N	1	b	29.94	-08	29	21	-5	NW	1	s	*	39	25	-	
Lyons ...	29.99	35	N	5	bc	30.06	0.0	27	25	-4	N	5	bc	*	40	26	-	
Nice ...	29.69	45	SE	3	c	29.61	-15	40	37	-1	SW	4	bc	1	54	37	-	
Perpignan ...	29.84	42	NW	4	b	29.91	+03	35	30	-6	NW	5	b	*	50	34	-	
Biarritz ...	30.01	45	NNW	4	o	30.15	+17	29	26	-13	ENE	4	b	3	46	27	-	
AFRICA.																		
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

Friday, 28th February,

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:

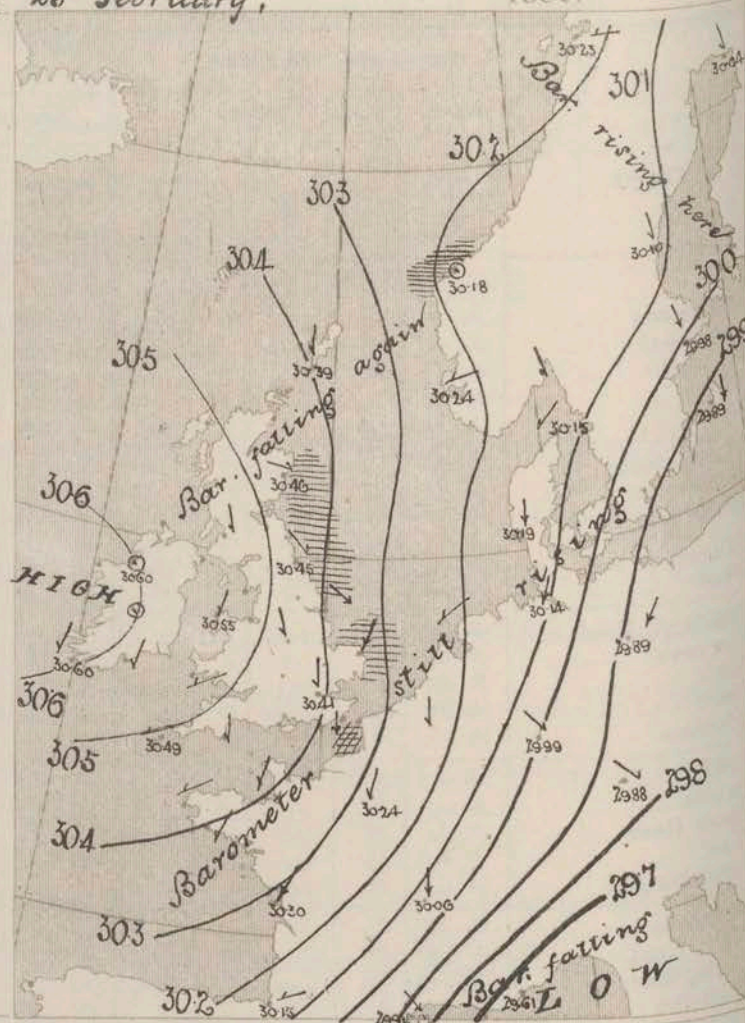
⊞ = Rough. ⊞ = High.

MEAN HEIGHT OF THE BAROMETER

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

During the 15 Years: 1871—1885.

STATIONS.	MEAN READINGS.
	<i>in.</i>
Sumburgh Head	29.713
Stornoway	29.700
Wick	29.737
Nairn	29.747
Aberdeen	29.780
Leith	29.803
Shields	29.847
York	29.884
Loughborough	29.912
Ardrossan	29.805
Donaghadee	29.812
Holyhead	29.848
Liverpool	29.873
Parsonstown	29.834
Valencia	29.850
Roche's Point	29.850
Pembroke	29.875
Sailly	29.911
Jersey	29.975
Hurst Castle	29.944
Dover	29.957
LONDON	29.949
Oxford	29.938
Cambridge	29.935
Yarmouth	29.928



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

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

WEATHER—is shown by Letters of the Beaufort Scale.

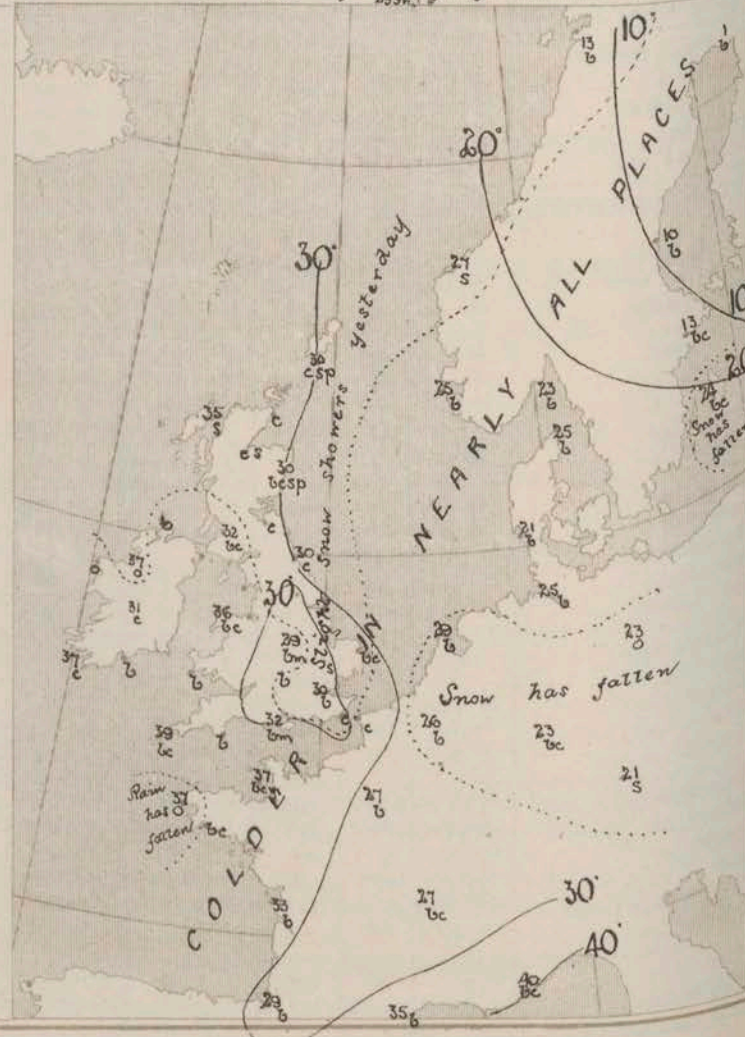
RAINFALL—A dotted line separates the districts in which rain has fallen from those where there has been none. Falls of 0.5 in. or more, are quoted in figures.

MEANS OF TEMPERATURE IN SHADE, AND RAINFALL.

(For the month of February.)

STATIONS.	TEMPERATURE.				RAINFALL (Inches.)
	Daily Max.	Daily Min.	at 8 a.m.		
			Dry.	Wet.	
Sumburgh Head.....	42.6	34.7	38.7	37.7	3.29
Stornoway	43.5	34.7	39.3	38.2	3.97
Wick.....	43.4	33.5	38.4	37.0	2.02
Nairn	43.4	33.8	37.4	35.7	1.51
Aberdeen	43.5	34.2	37.8	36.2	2.51
Leith.....	46.6	31.7	39.2	37.7	1.58
Shields	44.3	35.7	39.2	37.9	1.63
York	45.3	34.2	38.2	37.1	1.88
Loughborough	46.0	34.5	38.4	37.3	2.00
Ardrossan	45.0	36.7	40.0	38.6	3.47
Donaghadee.....	45.8	37.0	40.7	39.7	2.71
Holyhead.....	46.1	39.3	42.3	40.8	2.90
Liverpool	45.3	36.9	39.9	38.3	1.85
Parsonstown	47.4	36.1	40.1	38.8	2.45
Valencia	50.2	40.8	45.1	43.4	5.29
Roche's Point	48.9	40.0	43.6	42.2	4.86
Pembroke.....	46.2	40.3	43.1	41.9	3.20
Scilly	49.7	43.7	46.9	45.3	2.98
Jersey	47.0	40.1	43.2	42.0	2.72
Hurst Castle	46.5	37.9	41.3	40.4	2.63
Dover	45.4	37.4	40.3	39.1	2.12
LONDON	46.9	36.0	39.7	38.6	1.89
Oxford	45.9	35.9	38.8	37.7	2.06
Cambridge	46.4	33.9	38.3	37.3	1.60
Yarmouth	43.5	35.2	38.9	38.2	2.02

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, 30.6 ins. and more, over the west of Ireland.
Lowest, about 29.6 ins. over the Gulf of Genoa and 29.3 ins. and less, over the Baltic.
Gradients steep in the south-east of France, rather so over Germany, slight elsewhere.
Barometer falling in the extreme north, and also over Northern Italy, rising in most other places.

TEMPERATURE

Highest, 40° at Nice, 39° at Sicily, 37° in the west of Ireland, and also at Brat, 36° at Holyhead, and 35° at Stornoway and Lorient.
Lowest, 1° at Haparanda, 10° at Helsingfors, 13° at Rode and Stockholm, 21° at Lund and Alnäs, 23° at Berlin and Münster, and 24° at Maly.
 It has fallen very generally and frost prevails this morning except on our western coasts.

WIND

Light from the NW^{wd} in Scotland, but remains Nth and NEth over England, Ireland, and at the Continental stations.
 It blows fresh over France, Germany, and the east and south of England, but is light or moderate in force elsewhere.

WEATHER

Fine and bright in nearly all parts of Western Europe, but occasional showers of snow are reported in Scotland and the east of England.
 During the past 24 hours snow showers have fallen in many parts of our Islands and also in Germany and at some of the Scandinavian stations.

SEA

High at C. Fitz Roy, rather rough in the east generally, moderate to smooth elsewhere.

PROBABLE CHANGES IN SYSTEM NOW PREVALENT

Cold weather, with fresh Nth winds and occasional showers of snow are still probable in most parts of our Islands.

FORECASTS

For the 24 hours ending at NOON on 1st March. 1890.

DISTRICTS.

FORECASTS.

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

NWth and Nth winds, strong; squally, some snow showers.

 Nth and NEth winds, fresh; fair and cold generally, but perhaps some snow showers.

DISTRICTS.

FORECASTS

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

Same as Nos 0 to 2.

 Nth and NEth winds fresh; fair generally, cold.

 Nth or NEth winds, light or moderate; fair, cold.

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							
BAR:	D.	W.	D.	F.	WEA.	SEA		BAR:	D.	W.	D.	F.	WEA.	SEA	
Skudesnaes ...	30.15	30	27	NNW	8	bc	4	Holyhead ...	30.55	38	34	NNE	4	bc	3
Sumburgh Head	30.49	30	29	N	4	bc sp	5	Valencia ...	30.61	41	36	NNE	2	o	3
Stornoway ...	30.64	30	26	NNE	5	o	5	Scilly ...	30.45	41	37	NNE	5	o	4
Aberdeen ...	30.51	32	31	NNW	5	cgs	6	Jersey ...	30.30	42	36	NNE	4	cm	3
Shields ...	30.45	37	34	NNW	6	sp	6	Dungeness ...	30.31	41	36	N	5	c	3
Ardrossan ...	30.55	40	37	NNE	2	c	1	London ...	30.37	39	36	NW	3	csp	5
Malin Head ...	30.61	40	36	NNE	5	o sp	3	Yarmouth ...	30.28	38	36	NNW	5	c	4
Mullaghmore ...	30.63	41	37	NNE	4	c v	2	Rochefort ...	30.60	43	38	NNE	6	c	
Belmullet ...	30.68	39	36	N	2	o	*								

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

Weather fine and bright over France, Germany, and the southeastern parts of England, changeable and unsettled elsewhere, with snow in many parts of Russia the north and east of Scotland, the coast of Norway. Snow showers later over Germany, the North Sea, and many parts of our Islands, amounts measured considerable in Germany and at Christiansund, slight elsewhere.

Temperature exceeding 50° over the southern parts of the Mediterranean only; 40° to 50° on the Atlantic coasts of Spain and Portugal, but below 40° in nearly all parts of Northwestern and Western Europe. Below the freezing point over the whole of eastern and central Europe, as well as in the Netherlands, and at Berlin. Lowest morning values (1) -9° at Hermannstadt, +11° at Charkov and Kiev, 17° at Odessa, 24° at Cracow, (2) 3° at Kuopio, 10° at Uleaborg, 12° at Haparanda, 13° at Archangel, 17° at Hangö, 20° at Riga, and 22° at Moscow. Falling decidedly in the northeast and east of our Islands later.

Wind N^s over the whole of Northern Europe, N^s to NW^s over Great Britain, the North Sea and Germany. NE^s in Ireland, the southeast of England, France and Spain, as well as at most of the Mediterranean stations, very variable over Southern Europe, S^s over the southern half of Russia, fresh to strong in many places, a gale at Wiesly, and Skudersnaes. Very strong squally from the NW^s over the North Sea and eastern parts of the British Isles later.

Barometer, highest 30.4 ins. to nearly 30.7 ins. over the British Isles, 29.9 ins. to 30.0 ins. over Southern Europe and the Black Sea, lowest 29.5 ins. to 29.7 ins. over the Mediterranean, 29.3 ins. to 29.5 ins. over the northern half of Russia. Gradients moderate generally, but rather steep over the Baltic, Germany, Switzerland, and the south of France. Not much change 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.

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.	Reading at 32° F. and Sea Level.	BAROMETER.		SHADE TEMP.			WIND.		Weather.	Sea (0 to 9.)	SHADE TEMP.		Amount of Rainfall.	
				Direc.	Force (0 to 12.)			Dry.	Wet.	Difference from 8 a.m. yesterday.	Direc.	Force (0 to 12.)	Max.	Min.						
1	Stornoway	-	-	-	-	-	29.78	- 30	45	45	- 2	SW	4	0	4	49	41	0.06		
-	Corunna	*	*	*	*	*	30.27	-	52	50	+ 8	NE	4	c	4	54	?	-		
-	Lisbon	30.16	50	N	5	bc	30.06	- 26	51	46	+ 7	NNE	4	b	5	57	?	-		
3	Stornoway	-	-	-	-	-	30.04	+ 28	47	46	+ 10	N	6	0	5	48	35	0.08		
-	Corunna	*	*	*	*	*	30.23	- 03	42	?	- 7	NNE	2	bc	3	52	39	0.28		
4	Stornoway	-	-	-	-	-	29.94	- 10	40	39	- 7	SW	3	c	3	48	38	0.02		
-	Corunna	*	*	*	*	*	30.12	- 11	40	39	- 2	E	2	0	4	55	36	-		
-	Lisbon	30.18	48	NW	4	b	30.04	- 18	45	44	- 3	NW	4	b	?	55	45	0.08		
5	Stornoway	30.04	38	N	4	bc	30.07	+ 13	41	41	+ 1	SW	4	0	4	45	35	-		
-	Belfast	30.00	21	SW	1	bc	29.93	- 13	19	14	- 5	SW	1	b	2	32	15	-		
-	Corunna	*	*	*	*	*	30.08	- 04	42	42	+ 2	NE	2	c	3	50	39	-		
6	Corunna	*	*	*	*	*	30.04	- 04	40	39	- 2	NE	2	b	2	52	36	-		
7	Corunna	*	*	*	*	*	30.06	+ 02	41	37	+ 1	NE	3	b	3	52	34	-		
8	Corunna	*	*	*	*	*	29.95	- 11	44	?	+ 3	E	4	0	4	56	37	-		
-	Lisbon	29.93	50	NE	4	b	29.90	- 16	40	35	+ 1	NE	4	b	?	56	39	-		
10	Corunna	*	*	*	*	*	30.03	+ 12	40	37	- 1	E	3	b	3	57	36	-		
11	Corunna	*	*	*	*	*	30.04	+ 01	46	44	+ 6	?	3	0	4	57	39	-		
-	Lisbon	30.06	52	SSW	3	b	30.07	+ 04	42	41	+ 7	NNE	4	bc	?	59	?	-		
12	Corunna	*	*	*	*	*	29.75	- 29	53	51	+ 7	S	5	r	4	55	37	-		
13	Corunna	*	*	*	*	*	29.92	+ 17	48	45	- 5	SW	2	bc	5	55	43	0.47		
14	Corunna	*	*	*	*	*	29.72	- 20	41	-	- 7	S	6	0	6	-	-	-		
15	Corunna	*	*	*	*	*	30.13	+ 41	48	45	+ 7	NW	3	bc	4	59	?	0.89		
17	Corunna	*	*	*	*	*	29.68	- 07	46	43	0	SSE	4	bc	4	48	39	0.71		
18	Corunna	*	*	*	*	*	29.61	- 07	45	43	- 1	ESE	5	bc	4	54	41	-		
19	Corunna	*	*	*	*	*	29.97	+ 36	49	45	+ 4	SE	1	b	3	55	41	-		
20	Corunna	*	*	*	*	*	30.21	+ 24	50	48	+ 1	S	2	c	2	57	39	-		
21	Corunna	*	*	*	*	*	30.22	+ 03	48	46	- 2	SSE	4	0	4	55	43	-		
22	Corunna	*	*	*	*	*	29.69	- 55	53	51	+ 5	NNE	2	r	4	57	46	0.71		
24	Corunna	*	*	*	*	*	29.98	- 27	50	45	+ 1	ENE	4	b	3	52	45	-		
25	Corunna	*	*	*	*	*	29.95	- 03	51	47	+ 1	NE	1	b	2	57	43	-		
26	Corunna	*	*	*	*	*	30.02	+ 07	49	45	- 2	NNE	6	c	4	57	45	0.04		
27	Corunna	*	*	*	*	*	30.10	+ 08	50	46	+ 1	NNE	6	bc	5	52	37	-		
28	Corunna	*	*	*	*	*	30.16	+ 06	46	41	- 4	NE	7	0	6	52	37	-		
-	Lisbon	29.32	53	N	5	b	29.88	+ 04	42	35	- 5	NE	5	b	8	59	41	-		

[illegible]