

20675-77
16

METEOROLOGICAL OFFICE.

DAILY WEATHER REPORTS.

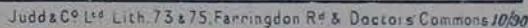
1ST JANUARY—30TH JUNE,

1891.

Soc. Reg. Lond.

26.4.92

January to June 1891.



DAILY WEATHER REPORT.

for Sunday 1st February 1891.
 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.		Amount of Rainfall.	
				Force.			Reading	Difference	Dry.	Wet.	Difference	Dir.	Force.			Max.	Min.		
		at 32° F. and Sea Level.	Dry.	Dir.	(0 to 12.)		at 32° F. and Sea Level.	from 8 a.m. yesterday.			from 8 a.m. yesterday.		(0 to 12.)		(0 to 12.)				
SCANDINAVIA.	Haparanda ...	29.92	8	Z	0	b	29.96	+ .25	10	10	- 22	Z	0	bc	*	32	7	0.08	
	Hernösand ...	30.06	18	Z	0	b	30.01	+ .04	21	21	- 12	Z	0	bc	*	39	18	—	
	Stockholm ...	30.21	32	Z	0	b	30.15	+ .02	30	30	- 2	Z	0	bc	*	37	30	—	
	Wisby ...	30.17	34	NNW	4	0	30.16	+ .03	33	32	- 3	SSE	0	0	*	37	32	—	
	Bodö ...	29.80	38	SW	4	b	29.92	- .20	37	33	+ 4	ENE	4	c	2	39	32	0.16	
	Christiansund	29.59	40	ESE	3	c	29.58	- .31	41	35	+ 5	ESE	5	c	4	41	36	—	
	Skudesnaes ...	29.82	39	SE	8	0	29.81	- .20	40	39	+ 1	S	7	r	5	41	37	0.16	
	Christiania Fjord (Fjærd)	30.08	35	SSE	5	f	29.99	- .12	37	36	+ 6	S	3	0	3	?	?	0.75	
	Skagen (The Scaw)	30.06	34	S	5	f	30.04	- .12	35	35	+ 3	SW	3	0	3	36	32	0.08	
	Fanö ...	30.07	33	S	4	f	30.08	- .09	34	32	+ 3	S	4	f	*	36	30	—	
BRITISH ISLANDS.	Sumburgh Head	29.20	43	SSE	6	r	29.96	+ .12	43	40	+ 1	NW	4	bc	6	45	42	0.17	
	Stornoway ...	29.31	41	W	5	r	29.96	+ .63	40	38	- 3	W	4	0	4	44	35	0.05	
	Wick ...	29.28	41	W	2	0	29.98	+ .52	35	34	- 8	W	2	bc	2	44	35	0.05	
	Nairn ...	29.34	42	SW	3	c	30.01	+ .63	37	34	- 4	SW	2	bc	1	44	34	0.17	
	Aberdeen ...	29.41	41	SSW	3	cq	30.04	+ .55	38	34	- 4	SW	2	bc	3	44	37	0.02	
	Leith ...	29.52	43	SW	6	0	30.06	+ .66	38	35	- 6	W	1	bc	*	44	32	0.02	
	Shields ...	29.75	44	SW	4	bc	30.07	+ .45	36	34	- 8	W	3	bc	2	48	33	—	
	Spurn Head ...	29.91	41	SSW	2	bc	30.04	+ .18	39	38	- 3	N	3	cqm	3	48	38	0.33	
	York ...	29.86	41	S	1	bc	30.15	+ .36	32	32	- 12	NNW	1	bc	*	49	32	—	
	Loughborough	29.95	45	WSW	3	0	30.11	+ .22	40	39	- 3	NW	2	0	*	50	40	0.81	
GERMANY & HOLLAND.	Ardrossan ...	29.69	42	SW	4	r	30.11	+ .90	40	39	- 2	WSW	1	bc	1	43	35	0.21	
	Malin Head ...	29.68	43	W	4	bc	30.13	+ 1.02	42	40	- 1	NNW	3	bc	2	43	38	0.14	
	Mullaghmore ...	29.76	42	WSW	4	bc	30.19	+ .80	42	40	0	W	4	bc	3	46	37	0.01	
	Belmullet ...	29.79	41	S	2	bc	30.25	+ .70	42	40	- 3	W	2	bc	*	46	34	0.07	
	Donaghadee ...	29.78	41	W	3	bc	30.18	+ .92	34	23	- 4	NNW	2	bc	0	48	31	0.01	
	Liverpool (Bidston)	29.89	44	SSW	2	c	30.19	+ .46	37	36	- 7	NNW	3	bc	2	47	37	0.01	
	Holyhead ...	29.84	44	SSW	1	og	30.22	+ .54	41	39	- 3	NW	1	bc	2	47	41	0.02	
	Parsonstown ...	29.77	41	Z	0	bc	30.27	+ .60	33	32	- 7	Z	0	bc	*	47	29	—	
	Valencia ...	29.77	42	Z	0	om	30.35	+ .60	43	41	0	NW	1	c	3	46	40	0.17	
	Roche's Point...	29.77	43	E	2	c	30.32	+ .52	42	39	- 1	NNW	3	bc	4	47	40	0.20	
FRANCE AND BELGIUM.	Pembroke (St. Ann's Hd.)	29.82	45	S	5	r	30.27	+ .44	42	39	- 2	NNW	3	bc	3	46	41	0.32	
	Scilly ...	29.79	47	WSW	4	c	30.29	+ .38	46	44	- 2	NNW	4	c	5	50	43	0.23	
	Prawle Point ...	29.95	46	SSW	5	r	30.21	+ .21	41	40	- 5	NNW	4	bc	3	50	40	0.03	
	Jersey (St. Aubin's)	30.13	48	S	4	cqm	30.13	+ .04	45	42	- 1	NNW	5	ogm	4	52	43	0.31	
	Hurst Castle ...	30.04	47	SW	6	c	30.05	+ .03	40	40	- 4	N	4	cp	4	47	40	0.21	
	Dungeness ...	30.09	44	WSW	5	c	30.01	- .02	41	41	- 2	SW	4	bc	2	47	41	0.40	
	London ...	30.06	46	S	1	bc	30.03	+ .02	41	40	- 5	NW	1	bc	*	53	41	0.09	
	Oxford ...	29.97	45	SW	3	0	30.09	+ .12	40	39	- 3	N	4	op	*	51	40	0.12	
	Cambridge ...	29.99	43	S	1	bc	30.03	+ .07	41	41	- 3	N	2	0	*	52	40	0.08	
	Yarmouth ...	29.99	44	SW	3	bc	29.98	- .02	41	40	0	SW	2	c	3	46	37	0.19	
PENIN. SULA.	Cuxhaven ...	30.17	40	SSW	2	f	30.15	- .10	39	39	+ 1	SSW	2	f	*	41	37	0.04	
	Berlin ...	30.30	36	SSW	3	bc	30.29	- .06	39	38	+ 1	Z	0	0	*	43	34	—	
	Wiesbaden ...	*	*	*	*	*	30.22	- .17	37	37	+ 1	Z	0	0	*	39	36	0.04	
	Munich ...	30.42	29	SE	1	bc	30.34	- .11	34	33	+ 1	SSE	2	0	*	37	28	0.04	
	The Helder ...	30.12	35	SSW	3	f	30.02	- .16	39	?	+ 2	S	1	f	1	41	35	0.20	
	Brussels (9 a.m.)	*	*	*	*	*	30.18	- .03	40	?	+ 1	SSE	2	0	*	44	38	0.08	
	Cape Gris Nez	30.13	41	SW	5	m	30.00	- .05	42	41	- 2	SSW	3	c	4	45	37	0.28	
	Paris ...	30.20	45	SSE	3	bc	30.12	- .11	42	41	+ 4	SW	3	0	*	50	?	0.04	
	Brest ...	30.03	49	SW	4	bc	30.30	+ .29	47	46	0	NW	4	0	5	50	43	0.51	
	Lorient ...	30.15	50	SSW	5	0	30.23	+ .08	46	44	- 3	NW	6	0	7	52	43	0.28	
FRANCE AND BELGIUM.	Rochefort ...	30.38	46	SSW	4	m	30.26	.00	45	43	- 1	WSW	6	0	*	52	37	0.24	
	Belfort ...	30.20	37	W	1	f	30.22	?	37	?	+ 9	W	1	f	*	46	?	—	
	Lyons ...	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	
	Nice ...	30.50	44	E	4	bc	30.39	- .12	43	40	+ 5	E	4	c	2	54	38	—	
	Perpignan ...	30.49	47	NE	1	0	30.41	- .02	46	46	+ 3	NW	1	0	*	53	40	—	
	Biarritz ...	30.38	53	ESE	2	0	30.47	+ .13	48	46	- 7	WSW	6	r	6	59	45	0.12	
PENIN. SULA.	Corunna ...	*	*	*	*	*	30.38	+ .03	48	47	- 4	WSW	2	bc	6	59	45	0.12	
	Lisbon ...	30.53	55	SSW	3	0	30.57	+ .11	52	52	- 2	NE	3	0	6	57	52	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 1st February 1891.

BAROMETER, WIND AND SEA.

EXPLANATION OF MAP

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

Changes since previous morning are stated in words.

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

— forces above 10; — forces 8 to 10;

— forces 5 to 7; — forces 1 to 4.

○ = dead calm.

SEA DISTURBANCE—Where considerable, is shown thus:

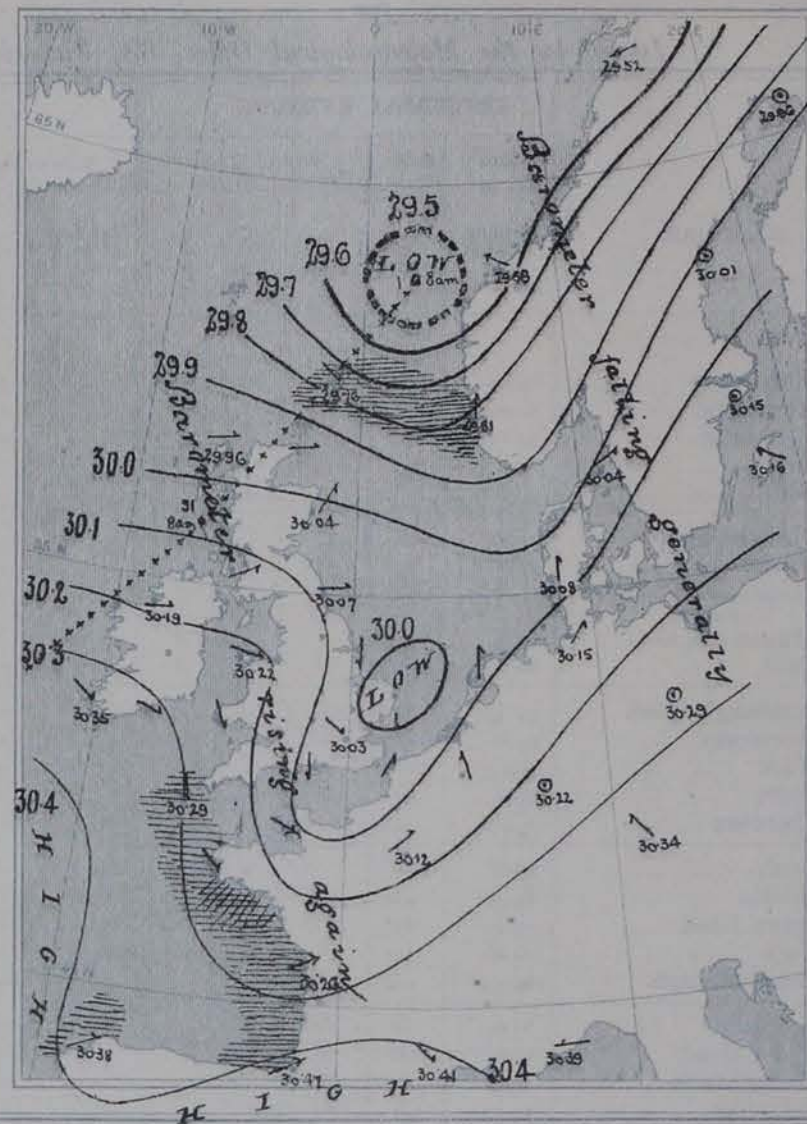
— = Rough. — = High.

MEAN HEIGHT OF THE BAROMETER

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

During the 20 Years: 1871—1890.

STATIONS.	MEAN READINGS.
Sumburgh Head	29.775
Stornoway	29.773
Wick	29.804
Nairn	29.814
Aberdeen	29.848
Leith	29.870
Shields	29.906
Spurn Head	29.934
York	29.939
Loughborough	29.963
Ardsossan	29.873
Mullaghmore	29.842
Donaghadee	29.884
Holyhead	29.911
Liverpool	29.934
Parsonstown	29.906
Valencia	29.919
Roche's Point	29.915
Pembroke	29.937
Sally	29.939
Prawle Point	29.903
Jersey	30.007
Hurst Castle	29.986
Dover	29.986
LONDON	29.989
Oxford	29.980
Cambridge	29.979
Yarmouth	29.964



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

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

WEATHER—is shown by letters of the Beaufort Scale.

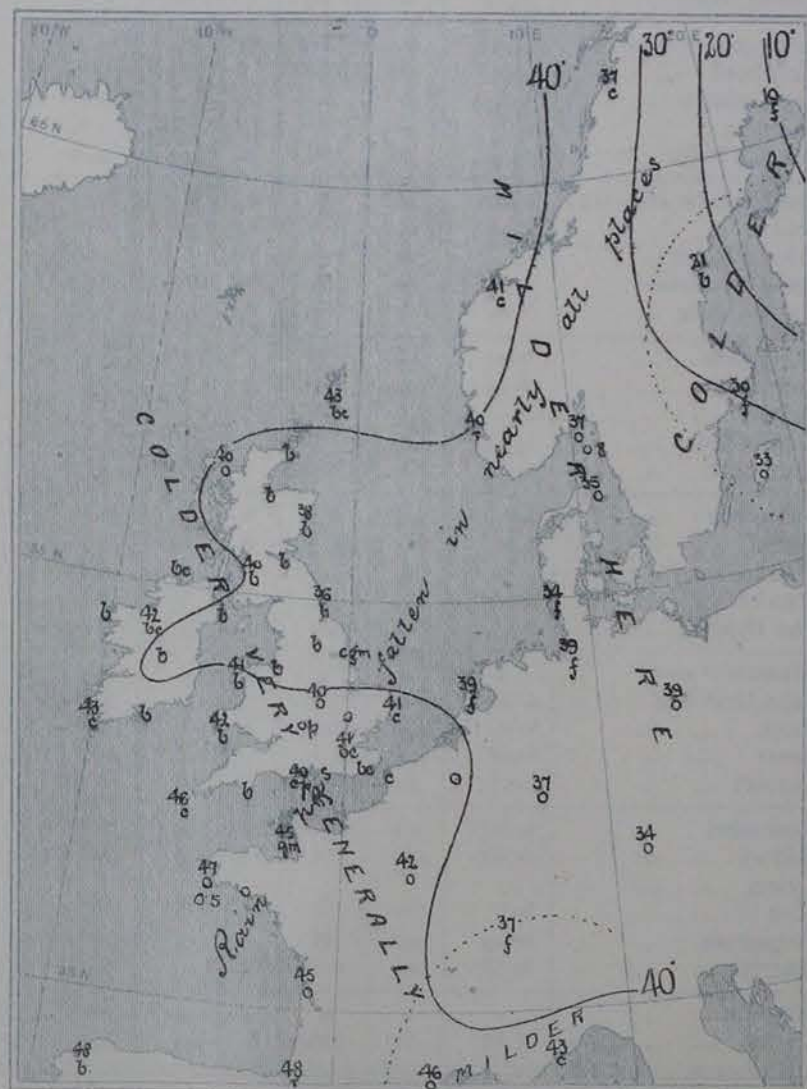
RAINFALL—A dotted line separates the districts in which rain has fallen from those where there has been none. Falls of 0.5 in. or more are quoted in figures.

MEANS OF TEMPERATURE IN SHADE, AND RAINFALL.

(For the month of February.)

STATIONS.	TEMPERATURE.				RAINFALL. (Inches.)
	Daily Max.	Daily Min.	Dry. at 8 a.m.	Wet.	
Sumburgh Head	42.4	34.5	38.5	37.4	3.10
Stornoway	43.5	31.6	39.1	38.7	3.80
Wick	43.1	33.2	38.1	36.7	2.04
Nairn	43.4	34.4	37.1	35.4	1.48
Aberdeen	43.2	33.8	37.3	35.7	2.35
Leith	45.7	34.3	38.6	37.1	1.45
Shields	43.8	35.1	38.6	37.3	1.50
Spurn Head	42.8	35.5	38.4	37.6	1.36
York	44.9	33.9	37.5	36.4	1.70
Loughborough	45.3	33.9	37.5	36.4	1.78
Ardsossan	44.6	33.3	38.4	38.2	3.04
Mullaghmore	46.6	38.6	42.0	40.3	2.80
Donaghadee	45.5	35.9	40.3	39.3	2.42
Holyhead	45.5	38.7	41.5	40.1	2.00
Liverpool	44.5	36.2	38.0	37.3	1.69
Parsonstown	46.9	35.6	39.1	38.1	2.20
Valencia	49.7	40.7	41.6	42.9	4.95
Roche's Point	48.4	39.6	43.1	41.6	4.43
Pembroke	45.5	39.4	42.1	40.9	2.62
Sally	48.9	42.8	43.0	44.4	2.71
Prawle Point	46.8	38.1	41.5	40.5	2.02
Jersey	46.9	39.3	42.3	41.0	2.55
Hurst Castle	45.7	36.7	40.3	39.3	2.30
Dover	44.4	36.1	39.2	38.1	1.95
LONDON	45.8	35.1	38.6	37.4	1.73
Oxford	45.0	34.9	37.9	36.3	1.92
Cambridge	45.4	32.8	37.0	36.2	1.46
Yarmouth	42.6	34.5	38.2	37.3	1.82

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



GENERAL SITUATION AT 8 A.M.

PRESSURE

Highest, 30.6 in: to 30.4 in: over the Iberian Peninsula, and 30.4 in: to 30.2 in: over Germany and the Baltic.
Lowest, 29.5 in and less, in a depression off the west of Norway; 30.0 in: and less, in a secondary system over the eastern counties of England.
Gradients moderate to slight.

Barometer rising rapidly in the British Isles as a whole, falling on the eastern shores of the North Sea.

TEMPERATURE

Highest, 52° at Lisbon, 47° at Brest, 46° at Copenhagen, 43° at Hamburg, 36°.

Lowest, 10° at Kaparanda, 21° at Helsingfors, 30° at Stockholm, 32° at York, 33° at Barrington.

It has fallen decidedly over our Islands during the night. The morning readings are 39° at Berlin, 41° in London and 42° at Paris.

WIND

(1) W¹ moderate to light at our northern stations, S¹ to E¹ in Norway.

(2) NW¹ to N¹ over England and the south of Ireland, SW¹ over the Netherlands and northeast of France. A strong W¹ gale is blowing over the Bay of Biscay.
The gales of yesterday and a strong breeze which blew at some southern stations last night have subsided.

WEATHER

Rainy at Skudeenæs and also in the southwest of France, showery at Oxford, foggy at Yarm and Cuxhaven.

Fine over the greater part of our Islands and at Comman.

Rain has fallen over the United Kingdom very generally since yesterday, but the amounts are not large.

SEA

Rough in north — very rough over the Bay of Biscay, moderate to smooth as a whole elsewhere.

PROBABLE CHANGES IN SYSTEM NOW PREVALENT

FORECASTS

For the 24 hours ending at NOON on 2nd FEB 1891.

DISTRICTS.

FORECASTS.

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

NONE ISSUED

DISTRICTS.

FORECASTS.

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

NONE ISSUED

WARNINGS

The SOUTH CONE is still flying in district 10. and part of 9.

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

YESTERDAY'S 2 P.M. REPORTS.

	BAR:	THER:		WIND		WEA.	SEA		BAR:	THER:		WIND		WEA.	SEA
		D.	W.	D.	F.					D.	W.	D.	F.		
Skudesnaes ...	29.88	41	39	SE	8	o	5		Holyhead ...	29.83	47	47	SW	5	5
Sumburgh Head ...	29.88	42	43	SSE	5	r	5		Valencia ...	29.75	42	43	SSE	3	3
Stornoway ...	29.23	44	43	SE	2	a	3		Scilly ...	29.93	50	48	SSW	4	6
Aberdeen ...	29.27	42	40	S	8	sgu	7		Jersey ...	30.16	52	48	SSW	4	3
Shields ...	29.66	47	42	SSW	6	b	2		Dungeness ...	30.04	46	45	W	5	3
Ardrossan ...	29.49	45	41	SW	6	r	6		London ...	30.03	53	49	SSW	3	*
Malin Head ...	29.49	40	39	W	8	sgu	6		Yarmouth ...	29.98	46	45	SSW	2	3
Mullaghmore ...	29.78	46	41	WSW	6	bc	5		Rochefort ...	30.34	52	?	W	4	*
Belmullet ...	29.71	45	41	WSW	6	c	*								

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

Weather fine in many parts of England, Ireland, and France, as well as in Italy and Algeria. Dull elsewhere, with fog over North Germany, Denmark, the Baltic, and the north of Norway. Squalls of rain in the northwest of our Islands, and snow in Finland. Rain falling in Scotland during day, and over England and France at night, but weather remaining fair over the greater part of Ireland.

Temperature highest 55° at Bismitz, 54° at Lisbon and Malta, 52° at Messina and Tunis, and 51° at Algiers; above 45° at some of our own southern stations. Lowest -13° F. at Kharlov, +5° at Odessa and Hermannstadt, 8° at Nicolaioff, and 11° at Bracon, below the freezing point over Denmark and east of France. Rising during day to between 45° and 50° in most parts of Ireland and England; to 55° or more in the west and south of France, and to 60° or more in Algeria and the south of Spain.

Wind N¹ in Ireland, with a gale in the north; strong from the SW¹ or S¹ over England, and from the SE¹ in Scotland and the west of Norway. Light from the SW¹ at a large majority of the Continental stations, but N¹ over the southern parts of Italy and the Adriatic and variable in the south of Russia. Subsequently increasing to a strong gale from the S¹ in the east of Scotland, but veering to the W¹ and moderating at night.

Barometer highest, 30.7 ins. and upwards, over the south of Russia; 30.3 ins. and upwards over nearly the whole of Russia, central and southern Europe and the Mediterranean. Lowest 29.2 ins. and less, in a deep depression lying over the northwest of our Islands. Depression subsequently travelling northwards, but well marked secondary disturbance ^{appearing} over our southwest coasts in evening.

EXPLANATION OF COLUMNS GIVEN ON PAGE 1.

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

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

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

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

DAILY WEATHER REPORT.

for *Monday, 2nd February, 1891.*
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.	Direc.	Force. (0 to 12.)		Reading at 32° F. and Sea Level.	Difference from 8 a.m. yesterday.	Dry.	Wet.	Difference from 8 a.m. yesterday.	Direc.	Force. (0 to 12.)			Max.	Min.		
SCANDINAVIA.	Haparanda ...	29.95	24	Z	0	0	29.93	- 03	27	27	+ 17	SW	2	0	*	?	2	-
	Hernösand ...	29.90	33	SW	6	c	30.03	+ 02	26	26	+ 5	Z	0	bc	*	34	12	-
	Stockholm ...	30.10	33	S	2	0	30.10	- 05	33	32	+ 3	WSW	2	c	*	36	30	-
	Wisby ...	30.16	35	SSW	4	0	30.13	- 03	36	35	+ 3	W	4	0	*	37	30	-
	Bodö ...	29.72	35	ESE	2	bc	29.80	+ 28	33	32	- 4	E	2	0	1	39	28	-
	Christiansund	29.83	42	SSW	9	b	29.89	+ 30	40	39	- 1	ESE	2	0	4	45	39	0.20
	Skudesnaes ...	30.18	40	NW	1	c	30.19	+ 38	39	38	- 1	SSE	6	0	4	43	37	-
	Christiania Fjord (Færder)	30.05	37	Z	0	b	30.18	+ 19	36	35	- 1	WNW	5	b	2	37	36	-
	Skagen (The Seaw)	30.10	35	NW	3	b	30.27	+ 23	34	33	- 1	NW	1	b	2	37	32	-
	Fanö ...	30.30	34	WNW	2	c	30.41	+ 33	33	33	- 1	WNW	4	b	*	34	32	0.08
BRITISH ISLANDS.	Sumburgh Head	30.05	41	WSW	1	c	29.84	+ 08	47	46	+ 4	WSW	5	0	6	47	43	0.14
	Stornoway ...	30.09	43	SW	4	c	29.90	- 06	51	50	+ 11	SW	7	0	6	51	36	0.04
	Wick ...	30.16	42	W	2	b	29.99	+ 01	48	46	+ 13	SW	3	c	2	48	35	0.23
	Nairn ...	30.17	40	SW	1	bc	30.04	+ 03	50	47	+ 13	SW	4	c	1	50	34	-
	Aberdeen ...	30.27	39	S	1	b	30.16	+ 12	45	43	+ 7	S	4	c	4	47	37	0.01
	Leith ...	30.29	41	W	1	b	30.25	+ 19	48	46	+ 10	SW	5	cq	*	48	36	-
	Shields ...	30.36	43	W	1	b	30.38	+ 31	44	43	+ 8	SSE	3	c	2	48	33	-
	Spurn Head ...	30.40	39	Z	0	b	30.50	+ 46	37	35	- 2	SW	3	bm	3	43	34	-
	York ...	30.40	41	WNW	1	b	30.51	+ 36	37	36	+ 5	S	1	bc	*	48	32	-
	Loughborough	30.46	38	Z	0	b	30.58	+ 47	38	37	- 2	SW	3	bc	*	49	31	-
GERMANY & HOLLAND.	Ardrossan ...	30.33	33	SW	3	b	30.32	+ 21	45	44	+ 5	SSW	4	om	3	48	39	0.01
	Malin Head ...	30.23	42	SSW	5	bc	30.20	+ 07	47	46	+ 5	SSW	5	og	4	47	41	-
	Mullaghmore ...	30.30	45	SW	6	rg	30.30	+ 11	49	47	+ 7	SSW	5	om	4	49	40	0.01
	Belmullet ...	30.27	46	SSW	4	0	30.28	+ 03	49	41	+ 7	SW	5	cu	*	50	41	0.03
	Donaghadee ...	30.38	41	WNW	3	c	30.36	+ 18	47	45	+ 13	WSW	4	c	2	47	33	-
	Liverpool (Bidston)	30.46	42	W	3	b	30.52	+ 33	45	43	+ 8	SW	3	c	3	46	37	-
	Holyhead ...	30.45	42	W	1	bc	30.50	+ 28	45	45	+ 4	SSW	4	bcmw	3	46	41	-
	Parsonstown ...	30.41	44	Z	0	bc	30.44	+ 17	47	46	+ 14	Z	0	0	*	49	32	-
	Valencia ...	30.43	49	SSW	5	om	30.48	+ 13	50	49	+ 7	SSW	6	ogm	5	51	42	0.01
	Roche's Point...	30.47	47	WSW	3	bc	30.55	+ 23	47	46	+ 5	WSW	4	0	4	48	42	-
FRANCE AND BELGIUM.	Pembroke (St. Ann's Id.)	30.52	44	W	3	bc	30.61	+ 34	46	45	+ 4	SSW	3	c	3	46	42	0.02
	Scilly ...	30.53	47	WNW	3	bc	30.63	+ 34	46	45	0	SW	3	c	5	48	44	-
	Prawle Point ...	30.54	42	NW	1	b	30.68	+ 47	44	43	+ 3	W	2	bc	2	50	37	-
	Jersey (St. Aubin's)	30.49	44	NW	3	b	30.72	+ 59	35	34	- 10	NW	2	bmr	2	48	34	-
	Hurst Castle ...	30.50	40	N	2	b	30.66	+ 61	32	32	- 8	W	1	b	4	47	31	0.03
	Dungeness ...	30.37	42	N	3	bc	30.62	+ 61	29	29	- 12	N	3	m	2	47	28	-
	London ...	30.46	43	NW	1	b	30.64	+ 61	31	31	- 10	W	1	b	*	47	30	-
	Oxford ...	30.54	35	WNW	1	b	30.65	+ 56	33	32	- 7	Z	0	b	*	48	32	-
	Cambridge ...	30.43	38	N	2	b	30.61	+ 53	34	33	- 7	S	1	b	*	48	30	-
	Yarmouth ...	30.32	41	N	4	b	30.57	+ 59	34	33	- 7	WNW	2	bm	2	44	31	-
GERMANY & HOLLAND.	Cuxhaven ...	30.22	40	WNW	1	f	30.48	+ 33	34	33	- 5	W	2	f	*	42	33	0.12
	Berlin ...	30.29	36	S	3	b	30.41	+ 12	37	36	- 2	NW	4	b	*	43	32	0.08
	Wiesbaden ...	*	*	*	*	*	30.55	+ 33	42	40	+ 5	NW	3	0	*	43	36	-
	Munich ...	30.34	32	SW	2	b	30.54	+ 20	35	35	+ 1	W	3	0	*	39	28	-
	The Helder ...	30.40	34	WNW	1	b	30.58	+ 38	35	34	- 1	WSW	1	b	1	41	34	-
	Brussels (9 a.m.)	*	*	*	*	*	30.67	+ 32	32	32	- 5	W	1	f	*	44	31	0.04
	Cape Gris Nez	30.36	40	NNE	3	b	30.61	+ 61	35	34	- 7	W	1	m	1	45	34	-
	Paris ...	30.38	44	WNW	3	r	30.66	+ 54	37	36	- 5	WNW	2	0	*	48	36	0.04
	Brest ...	30.52	48	WNW	3	bc	30.65	+ 35	39	39	- 8	NE	1	b	3	50	37	-
	Lorient ...	30.56	46	WNW	4	b	30.73	+ 50	38	37	- 8	WNW	1	b	5	50	37	-
FRANCE AND BELGIUM.	Rochefort ...	30.43	44	WNW	5	bc	30.67	+ 43	37	36	- 8	N	3	bc	*	46	32	0.04
	Belfort ...	?	37	W	1	c	?	?	36	?	- 1	W	1	f	*	43	32	-
	Lyons ...	30.34	38	E	1	c	30.54	+ 37	37	35	- 3	WNW	4	b	*	45	34	0.04
	Nice ...	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Perpignan ...	30.32	50	NW	5	bc	30.41	+ 00	46	41	0	NW	4	0	*	56	41	0.12
	Biarritz ...	30.53	51	NW	6	c	30.68	+ 18	45	42	- 3	E	3	0	5	63	43	0.04
PENIN- SULA.	Corunna ...	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Lisbon ...	30.55	54	N	5	b	30.49	- 08	45	44	- 7	N	3	b	2	59	45	-

GENERAL SITUATION AT 8 A.M.

PRESSURE

Highest, 30.7 in. to 30.5 in. in an anticyclone lying over the Continent and the southern half of our Islands.
 Lowest, 29.5 in. and less, in the Shetlands and off the coast of Norway.
 Gradient somewhat steep in the northwest and north, slight elsewhere.
 Barometer still inclined to rise even at Valencia Island.

TEMPERATURE

Highest, 51° at Stornoway, 50° at Kinn and Valencia Island, 47° at Lumburg Hill.
 Lowest, 26° to 27° in the north of Sweden, 25° at Ljungö, 31° in London, 32° at Brussels, 33° at Oxford, and also at Bonn and Stockholm, and 37° at Paris and Berlin.
 It went down to 30° in the shade and 20° on the grass in the south of London early this morning.

WIND

Light from the N^W over France, and from the W^W in the Channel, moderate SW over the northern half of England and in Scotland; moderate SW over the northern half of England and in Scotland, fresh to strong SW in Ireland, and blowing a moderate gale from SW. at Stornoway. In Norway the wind is SE to E.

WEATHER

Very fine over the Continent and England, dull in Ireland and the west and north of Scotland, with an angry appearance at Belinulet. Slight rain fell in the west and north yesterday and at several of the Continental stations. Hoar frost prevailed on the ground over the southeast of England this morning.

SEA

Still rough in the extreme north and west, rather so over the Bay of Biscay, moderate in the northwest, smooth in the south and east.

PROBABLE CHANGES IN SYSTEM NOW PREVALENT

There is at present no indication of any important ^{change} except that the present distribution of pressure is favourable for the rapid movement of depressions from the Atlantic towards our extreme northwestern coasts and the northwest of Norway.

FORECASTS

For the 24 hours ending at NOON on 3rd FEB 1891.

DISTRICTS.

FORECASTS.

0	SCOTLAND NORTH	SW ² winds, strong to moderate; showery to fair.
1	SCOTLAND EAST	SW ¹ and W ² breezes, moderate or light; fair generally.
2	ENGLAND N.E.	
3	ENGLAND EAST	W ² and SW ² breezes, light, fine generally. Cold tonight.
4	MIDLAND COUNTIES	
5	ENGLAND SOUTH	

DISTRICTS.

FORECASTS.

6	SCOTLAND WEST	SW ¹ and S ² winds, fresh; some showers.
7	ENGLAND N.W.	
8	ENGLAND S.W.	SW ¹ and S ³ winds, moderate and fair; uncertain later.
9	IRELAND NORTH	S ² winds, fresh, showers in west, fair in east, uncertain later.
10	IRELAND SOUTH	

WARNINGS

NONE ISSUED.

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

YESTERDAY'S 2 P.M. REPORTS.

	BAR.	THER.		WIND		WEA.	SEA		BAR.	THER.		WIND		WEA.	SEA
		D.	W.	D.	F.					D.	W.	D.	F.		
Skudeanaes ...	30.00	42	41	NW	4	0	5	Holyhead ...	30.38	44	42	NW	3	0	2
Sumburgh Head								Valencia ...							
Stornoway ...	30.09	44	42	W	3	0	3	Scilly ...							
Aberdeen ...								Jersey ...	30.37	47	42	NW	5	0	4
Shields ...								Dungeness ...	30.25	44	41	N	6	0	3
Ardrossan ...								London ...							*
Mulin Head ...	30.25	43	40	SW	3	0	3	Yarmouth ...							
Mullaghmore ...								Rocheport ...	30.37	46	44	NW	6	0	3
Belmullet ...	30.29	46	45	SW	3	0	*								

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

Weather fine over the greater part of the United Kingdom, as well as over Italy, Algeria and the south of Spain. Cloudy or overcast elsewhere, with fog in many parts of Sweden, Denmark and Finland, as well as at some of the Austrian and Spanish stations, rain in the south of Norway, and snow at Riga and Lemberg. Rain setting in later in the extreme west and north of our Islands, and showers falling at some of the French stations. Temperature highest 53° at Algiers, 52° at Sanguinaire and Lisbon, 51° at Malta, 50° at Brindisi, and 49° at Barcelona; above 45° in the west of France, and also at Scilly. Lowest -16° at Kharkov, +6° at Odessa, 10° at Haparanda and Nicolaieff, 11° at Kiev and 13° at Kuopio, below the freezing point in nearly all parts of Sweden, Russia and Austria, and very little above it over central Ireland, the north of England and central Spain. Rising during day to between 45° and 50° in most parts of the United Kingdom, but sharp ground frost occurring over England at night.

Wind light from the Wnd over Ireland and Scotland, and from the NWnd over England; Sth over Denmark, Germany and the south of Norway, and SEth or Eth in the west of Norway. Calm in Sweden, light from the SWnd over northern and central Russia. Light from the Nnd or NEnd over Italy and the greater part of Spain; variable in Algeria and the south of France. Subsequently backing to the SWnd or Sth in the extreme west of our Islands, and increasing in force.

Barometer 30.7 ins. and upwards over the south of Russia, 30.6 ins. and upwards over central Spain, 30.3 ins. and upwards in a large anticyclone lying over all the more southern and eastern parts of Europe, and extending northwards over the south of Ireland. Lowest 29.6 ins. and less in a depression lying off the west of Norway, 30.0 ins. and less in a shallow secondary system over the east of England. Both disturbances travelling away north-eastwards later, but new depression beginning to approach over extreme northwest coasts.

SUMMARY OF CHANGES IN THE WEATHER OVER THE BRITISH ISLANDS AND THEIR NEIGHBOURHOOD FROM THE 25TH TO 31ST JANUARY 1891.

During the week the distribution of pressure over northwestern Europe has been continuously favourable for SWth (W to S) winds, and the gradients have been moderate. The winds reported have consequently been SWth in direction and have varied in force (as some depressions skirted our western coasts) from a light breeze to a moderate or fresh gale - the latter being more common on our western and northwestern coasts than elsewhere. Temperature has been high for the time of year, rain has fallen daily at the western and northern stations, and frequently in all parts of the Kingdom, but there have been several periods of very bright sunshiny weather, and in some cases the rays have been warm. At the close of the week a well-marked secondary disturbance was approaching the Bristol Channel and causing a temporary spell of rather unsettled weather over our southern Counties.

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 3rd February. 1891.
 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.			BAROMETER.		SHADE TEMP.			WIND.				SHADE TEMP.			
				Force.			Reading	Difference	Dry.	Wet.	Difference	Dirac.	Force.			Weather.	Max.		Min.	Amount
		at 32° F. and Sea Level.	Dry.	Dirac.	(0 to 12.)	Weather.	at 32° F. and Sea Level.	from 8 a.m. yesterday.							(0 to 12.)			of Rainfall.	
SCANDINAVIA.																			
Haparanda ...		29.71	33	SEW	6	T	29.52	-0.51	38	35	+12	W	4	6	*	?	32	—	
Hernösand ...		30.04	34	W	2	0	29.78	-0.32	38	37	+5	W	4	0	*	?	32	—	
Stockholm ...		30.16	35	SEW	4	6	29.88	-0.25	26	?	-10	WSEW	6	0	*	37	?	—	
Bodö ...		29.04	41	SEW	6	T	28.97	-0.27	37	37	+4	WSEW	8	T	6	41	32	0.20	
Christiansund ...		29.50	46	WSEW	9	T	29.96	+0.7	42	?	+2	W	8	C	5	46	37	0.67	
Skudesnaes ...		30.03	41	SEW	4	0	30.08	-0.11	42	41	+3	NW	2	0	4	43	39	0.24	
Christiania Fjord (Færd)		29.99	39	SEW	6	C	29.92	-0.26	40	39	+4	NW	4	C	3	?	?	—	
Skagen (The Scaw)		30.04	39	WSEW	5	m	29.97	-0.30	39	39	+5	WSEW	5	f	4	?	34	—	
Fanö ...		30.32	36	SEW	4	0	30.26	-0.15	37	37	+4	W	4	0	*	37	?	0.08	
BRITISH ISLANDS.																			
Sumburgh Head		29.79	49	WSEW	8	T	30.13	+0.29	40	40	-7	NW	1	C	4	51	40	0.17	
Stornoway ...		29.92	52	W	7	0	30.09	+0.19	42	42	-9	NW	2	bc	4	52	40	0.65	
Wick ...		29.99	50	W	5	T	30.16	+0.17	43	43	-5	2	0	d	2	51	40	0.60	
Nairn ...		30.00	51	WSEW	3	0	30.11	+0.07	43	42	-7	E	1	T	1	54	42	1.09	
Aberdeen ...		30.12	48	SEW	6	bc	30.13	-0.03	49	47	+4	SEW	3	og	4	53	45	—	
Leith ...		30.26	49	WSEW	1	0	30.20	-0.05	52	49	+4	WSEW	2	C	*	52	47	—	
Shields ...		30.34	48	SEW	4	C	30.29	-0.09	49	47	+5	SEW	4	C	2	53	41	—	
Spurn Head ...		30.45	43	WSEW	4	C	30.43	-0.07	43	42	+6	SEW	3	C	3	46	36	—	
York ...		30.48	47	SEW	1	0	30.43	-0.08	48	46	+11	WSEW	1	0	*	50	36	—	
Loughborough		30.56	47	WSEW	2	C	30.52	-0.06	46	44	+8	WSEW	3	C	*	52	38	—	
GERMANY & HOLLAND.																			
Ardrossan ...		30.28	47	SEW	4	0	30.25	-0.07	47	47	+2	SEW	5	0	4	48	45	—	
Malin Head ...		30.20	49	SEW	6	og	30.17	-0.03	47	47	0	SEW	5	op	3	50	46	0.06	
Mullaghmore ...		30.31	50	SEW	5	0	30.28	-0.02	50	49	+1	SEW	5	rom	4	52	49	—	
Belmullet ...		30.30	50	WSEW	5	0	30.28	0.00	50	50	+1	WSEW	6	om	*	51	49	0.05	
Donaghadee ...		30.38	51	W	3	C	30.35	-0.01	50	49	+3	W	4	C	1	51	46	—	
FRANCE AND BELGIUM.																			
Liverpool (Bidston)		30.52	46	WSEW	3	bc	30.48	-0.04	47	44	+2	WSEW	2	0	3	50	45	—	
Holyhead ...		30.51	47	SEW	5	ogm	30.48	-0.02	46	46	+1	SEW	5	omg	5	48	45	0.01	
Parsonstown ...		30.44	51	2	0	C	30.44	0.00	49	48	+2	SEW	1	0	*	53	47	—	
Valencia ...		30.50	50	SEW	6	odm	30.51	+0.03	50	49	0	SEW	5	omd	4	51	48	0.11	
Roche's Point...		30.53	47	WSEW	4	C	30.53	0.00	48	46	+1	WSEW	4	C	4	50	47	—	
SPAIN.																			
Pembroke (St. Ann's Hd.)		30.62	46	SEW	3	0	30.60	-0.01	45	45	-1	SEW	4	ogp	4	47	45	0.03	
Scilly ...		30.65	49	SEW	3	0	30.65	+0.02	47	45	+1	SEW	4	0	4	50	45	—	
Prawle Point ...		30.71	45	W	2	0	30.67	-0.01	45	44	+1	W	2	og	1	50	43	—	
Jersey (St. Aubin's)		30.73	45	W	2	bc	30.72	0.00	39	39	+4	WSEW	1	cfw	1	50	34	0.01	
Hurst Castle ...		30.69	43	WSEW	3	0	30.64	-0.02	43	42	+11	W	2	0	3	46	32	—	
ITALY.																			
Dungeness ...		30.64	42	WSEW	3	bc	30.61	-0.01	43	42	+14	W	3	C	2	46	28	—	
London ...		30.63	46	WSEW	2	0	30.61	-0.03	44	42	+13	SEW	2	0	*	50	31	—	
Oxford ...		30.64	44	W	2	0	30.60	-0.05	45	43	+12	WSEW	2	0	*	46	33	0.01	
Cambridge ...		30.59	42	SEW	1	bc	30.56	-0.05	45	44	+11	SEW	1	0	*	49	32	—	
Yarmouth ...		30.53	43	W	2	bc	30.50	-0.07	44	43	+10	NW	4	cm	2	45	33	0.01	
NETHERLANDS.																			
Cuxhaven ...		30.49	36	WSEW	3	f	30.42	-0.06	37	37	+3	WSEW	4	f	*	38	?	—	
Berlin ...		30.54	36	NW	2	bc	30.48	+0.04	38	36	+1	NW	3	0	*	41	36	—	
Wiesbaden ...		*	*	*	*	*	30.66	+0.11	31	31	-11	2	0	f	*	43	28	—	
Munich ...		30.66	34	2	0	0	30.65	+0.11	33	32	-2	NW	3	0	*	36	32	0.08	
The Helder ...		30.57	35	SEW	2	bc	30.52	-0.06	37	37	+2	SEW	2	f	2	39	?	—	
PORTUGAL.																			
Brussels (9 a.m.)		30.66	40	SEW	4	m	30.61	0.00	41	40	+6	W	4	C	3	41	34	—	
Cape Gris Nez		30.75	38	N	1	0	30.74	+0.01	31	31	-6	SEW	1	f	*	38	31	—	
Paris ...		30.78	48	SEW	1	bc	30.73	+0.08	40	39	+1	SEW	2	f	3	52	37	—	
Brest ...		30.74	44	W	1	bc	30.72	-0.01	36	36	-2	ENE	1	f	4	50	36	—	
GREECE.																			
Lorient ...		30.74	44	W	1	bc	30.72	-0.01	36	36	-2	ENE	1	f	4	50	36	—	
TURKEY.																			
Rochefort ...		30.70	44	NE	3	bc	30.71	+0.04	37	37	0	NE	3	0	?	46	30	—	
Belfort ...		?	35	W	1	C	?	?	36	?	0	W	1	f	*	44	34	—	
Lyons ...		30.65	38	NW	3	0	30.71	+0.17	38	33	-4	NW	2	f	*	41	33	—	
Nice ...		30.41	48	SEW	4	bc	30.52	+0.24	43	38	-1	2	3	f	2	54	39	—	
Perpignan ...		30.52	46	NW	4	bc	30.58	+0.17	40	37	-6	NW	2	bc	*	50	39	—	
Biarritz ...		30.67	47	NE	4	0	30.66	+0.01	39	37	-6	E	2	0	2	50	36	—	
AFRICA.																			
Corunna ...		30.45	33	NE	4	bc	30.49	0.00	43	39	-2	NNE	4	bc	?	39	43	—	
Lisbon ...																			

WEATHER CHARTS

for 8 a.m. on Tuesday, 3 February, 1891.

BAROMETER, WIND AND SEA.

EXPLANATION OF MAP

BAROMETER—Isobars are drawn for each tenth of an inch. Changes since previous morning are stated in words.

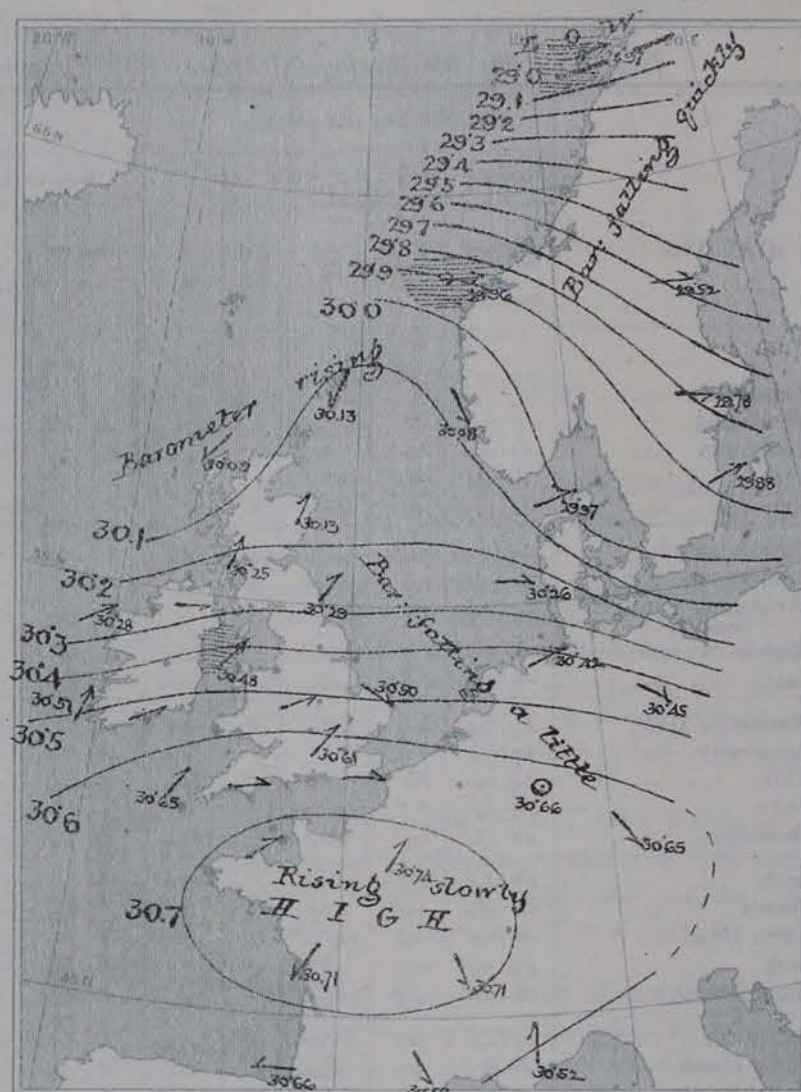
WIND—Arrows show the prevalent winds. They fly with the wind and their barbs and feathers refer to force thus:
 — forces above 10; — forces 8 to 10;
 — forces 5 to 7; — forces 1 to 4.
 ○ = dead calm.

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

MEAN HEIGHT OF THE BAROMETER

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

STATIONS.	MEAN READINGS.
Sumburgh Head	29.775
Stornoway	29.772
Wick	29.804
Nairn	29.814
Aberdeen	29.818
Leith	29.870
Shields	29.908
Spurn Head	29.934
York	29.939
Loughborough	29.963
Ardrossan	29.873
Mullaghmore	29.842
Donaghadee	29.881
Holyhead	29.914
Liverpool	29.934
Parsonstown	29.916
Valencia	29.919
Roche's Point	29.915
Pembroke	29.917
Sally	29.959
Prawle Point	29.993
Jersey	30.007
Hurst Castle	29.983
Dover	29.985
LONDON	29.989
Oxford	29.985
Cambridge	29.979
Yarmouth	29.901



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

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

WEATHER—is shown by letters of the Beaufort Scale.

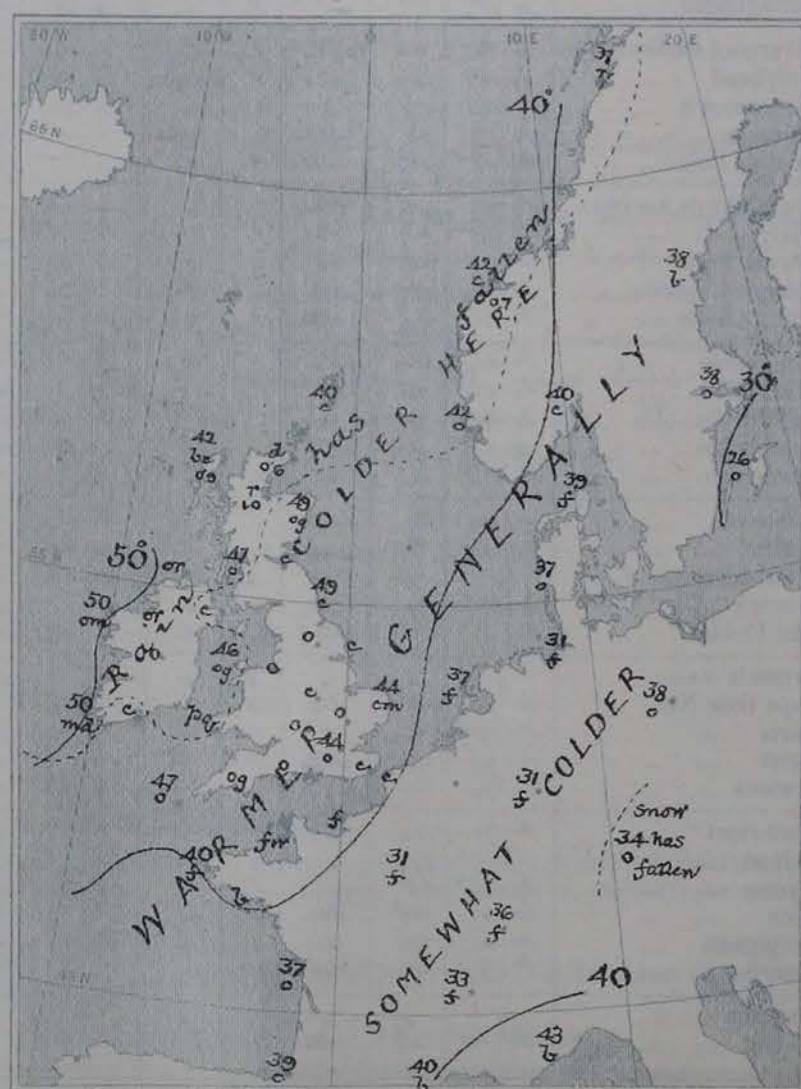
RAINFALL—A dotted line separates the districts in which rain has fallen from those where there has been none. Falls of 0.5 in. or more are quoted in figures.

MEANS OF TEMPERATURE IN SHADE, AND RAINFALL.

(For the month of February.)

STATIONS.	TEMPERATURE.				RAINFALL. (Inches.)
	Daily Max.	Daily Min.	at 8 a.m. Dry.	Wet.	
Sumburgh Head	42.4	34.5	38.5	37.4	3.19
Stornoway	43.5	31.6	39.1	38.1	3.86
Wick	43.1	33.2	38.1	36.7	2.04
Nairn	43.4	31.4	37.1	35.4	1.45
Aberdeen	43.2	33.8	37.3	35.7	2.35
Leith	43.7	34.3	38.6	37.1	1.45
Shields	43.8	35.1	38.6	37.3	1.50
Spurn Head	42.8	35.5	38.4	37.6	1.36
York	44.6	33.9	37.5	36.4	1.70
Loughborough	45.4	33.9	37.5	36.4	1.78
Ardrossan	44.6	36.3	39.4	38.2	3.04
Mullaghmore	46.6	38.6	42.0	40.3	2.80
Donaghadee	45.5	36.9	40.3	39.3	2.42
Holyhead	45.5	38.7	41.5	40.1	2.60
Liverpool	44.5	36.2	38.9	37.3	1.69
Parsonstown	46.0	35.6	39.4	38.1	2.20
Valencia	49.7	40.7	44.6	42.9	4.95
Roche's Point	48.4	39.6	43.1	41.6	4.43
Pembroke	45.5	39.4	42.1	40.9	2.82
Sally	48.9	42.8	45.0	44.4	2.71
Prawle Point	46.8	34.1	41.5	40.5	2.02
Jersey	46.9	39.3	42.3	41.0	2.65
Hurst Castle	45.7	36.7	40.3	39.3	3.30
Dover	44.4	36.1	39.2	38.1	1.95
LONDON	45.8	35.1	38.6	37.4	1.73
Oxford	45.0	34.9	37.9	36.8	1.92
Cambridge	45.5	32.8	37.3	36.2	1.46
Yarmouth	42.6	34.5	38.2	37.3	1.82

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



GENERAL SITUATION AT 8 A.M.

PRESSURE

Highest, 30.7 in. and upwards in an anticyclone lying over the northern part of France.

Lowest, 29.0 in. and less in a depression lying over the north of Scandinavia.

Gradients very steep over the northern parts of Scandinavia, but slight elsewhere.

Barometer falling quickly in the north of Scandinavia, and slightly in many parts of the United Kingdom, but rising elsewhere.

TEMPERATURE

Highest, 52° at Leith, 50° at Malborough, Bournemouth, and Valencia Island, and 49° at Aberdeen and Darnley.

Lowest, 26° at Misk, 31° at Berlin and Wiesbaden, 33° at Lyons, 34° at Munich, and 37° at Paris, Tanc, Copenhagen, and the Helder.

During yesterday the thermometer rose above 50° in many parts of the United Kingdom; at Harin and Jersey it reached 54°.

WIND

Light to fresh from the SW^W over the greater part of our Islands, but NE^E in the Shetlands and Hebrides.

W^W in Scandinavia and Denmark, with a gale at Hede and Christiansund.

Light from the NW^W in Germany, and from the NE^E in the west of France.

WEATHER

Cloudy or overcast generally, with fog in many parts of Denmark, Germany and France, and rain in central Scotland and the north of Ireland.

Heavy rain fell yesterday in the north of Scotland, the largest amounts being 1.1 in. at Harin and 0.9 in. at Gornoway.

SEA

Rough off the west of Norway and rather rough at Holyhead, but moderate to smooth elsewhere.

PROBABLE CHANGES IN SYSTEM NOW PREVALENT

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

FORECASTS

For the 24 hours ending at NOON on 4TH FEB^R 1891.

DISTRICTS.

FORECASTS.

0 SCOTLAND
NORTH

Light variable airs; dull, some rain.

1 SCOTLAND
EAST

SW^W winds, light or moderate;
cloudy, some rain.

2 ENGLAND
N.E.

3 ENGLAND
EAST

4 MIDLAND
COUNTIES

5 ENGLAND
SOUTH

SW^W and W^W winds, light or moderate;
fair generally.

DISTRICTS.

FORECASTS.

6 SCOTLAND
WEST

7 ENGLAND
N.W.

8 ENGLAND
S.W.

9 IRELAND
NORTH

10 IRELAND
SOUTH

SW^W winds fresh or strong; dull,
some rain.

SW^W winds moderate; dull, slight
rain locally.

Same as Nos 6 and 7.

WARNINGS

NONE ISSUED.

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

YESTERDAY'S 2 P.M. REPORTS.

	BAR:	THER:		WIND		WEA.	SEA		BAR:	THER:		WIND		WEA.	SEA
		D.	W.	D.	F.					D.	W.	D.	F.		
Skudesnaes ...	30.12	42	42	SPW	4	0	4	Holyhead ...	30.51	47	46	SPW	5	om	4
Sumburgh Head ...	29.77	50	46	WSPW	7	0	6	Valencia ...	30.49	51	50	SPW	5	omd	5
Stornoway ...	29.90	52	51	SW	8	7	7	Scilly ...	30.65	49	47	SPW	4	0	5
Aberdeen ...	30.10	52	47	SW	5	CG	4	Jersey ...	30.75	49	45	WSPW	3	bm	3
Shields ...	30.37	48	46	SPW	4	0	2	Dungeness ...	30.66	43	42	N	3	bc	2
Ardrossan ...	30.28	48	47	SPW	4	om	3	London ...	30.63	50	47	WSPW	2	c	*
Malin Head ...	30.19	50	48	SW	5	0	3	Yarmouth ...	30.55	45	43	W	3	bm	2
Mullaghmore ...	30.31	51	49	SPW	6	0	4	Rochefort ...	30.71	46	43	NNE	3	c	?
Belmullet ...	30.30	50	50	WSPW	6	0	*								

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

Weather fine and bright over the Spanish Peninsula, the west of France, and some part of Algeria, as well as over the eastern inland and southern counties of England, and the eastern shores of the North Sea; cloudy or overcast elsewhere, with fog over many parts of Central Europe, snow at Memel, rain at Prague. Unsettled looking in the northwestern parts of the British Islands. Heavy rain setting in ^{later} over the northern parts of Scotland and in Norway, very slight showers at some stations in Ireland and England.

Temperature risen over Ireland and Scotland, fallen generally elsewhere. Morning readings exceeding 50° at Algiers and Stornoway only, just touching 50° at Oporto, Valencia Island, and Nain; below 40° over our midland and southern counties, the greater part of France, Germany, and Denmark, below 30° over northern and western Russia, and as low as -12° at Kharlov, +7° at Nicolaziff, 12° at Kiev, and 18° at Vienna. Subsequently rising to 50° or more in many parts of the United Kingdom, and reaching 54° at Nain and Boule-Breit.

Wind SW in our Islands, light in force over England, but fresh or strong on our extreme western and northern coasts. SE or E in the west of Norway, W or NW in Denmark and Germany, light from the SWnd over the Baltic Provinces and Gulf of Finland. N or NE in France and Spain; calm in Austria; variable in Algeria. Subsequently increasing to a fresh gale from the SWnd in the Shetlands and Hebrides.

Barometer 30.7 ins: and upwards in the northwest of France, 30.6 ins: and upwards in the south of Russia, 30.4 ins: and upwards in a large anticyclone covering the entire half of the Continent. Lowest 29.9 ins: and less, in a very large depression lying to the northward of our Islands, and also in a small system lying over Finland. Depression in far north subsequently moving eastwards towards Scandinavia; no other change reported.

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.

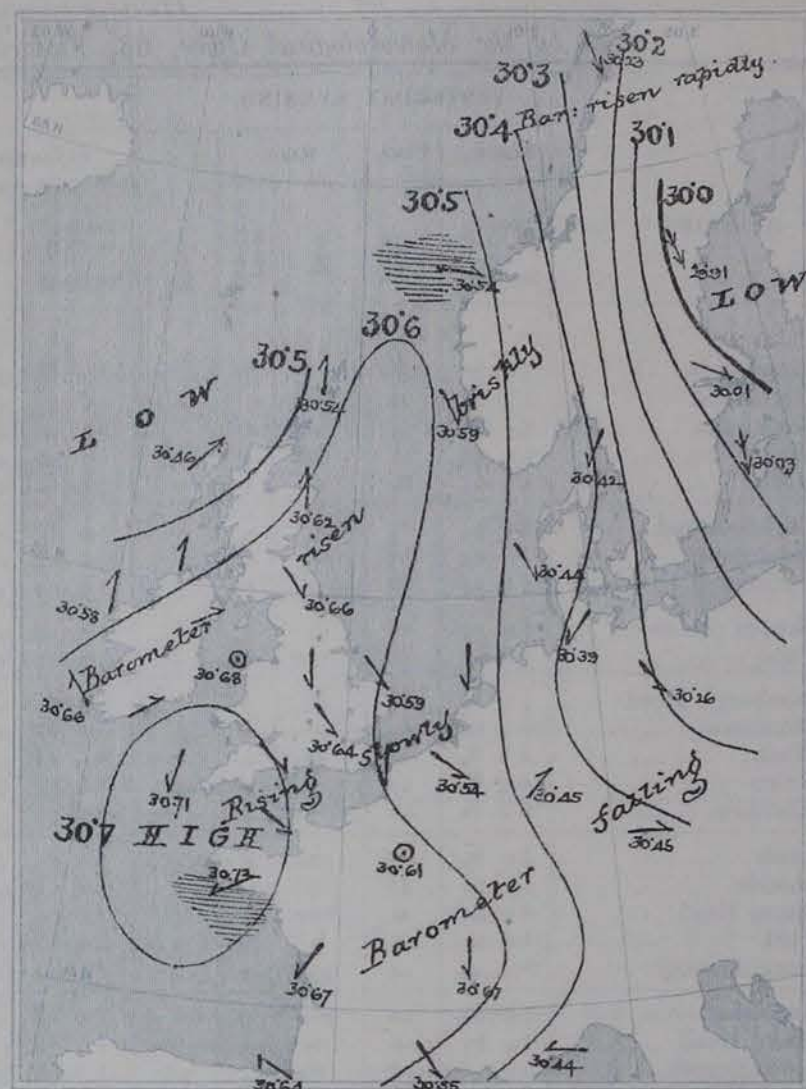
for *Wednesday, 4th February, 1891.*
 Issued by the Meteorological Office, 63, Victoria Street, London. *R. H. SCOTT, Secretary.*

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.	Direc.	Force, (0 to 12.)		Reading at 32° F. and Sea Level.	Difference from 8 a.m. yesterday.	Dry.	Wet.	Difference from 8 a.m. yesterday.	Direc.	Force, (0 to 12.)			Max.	Min.		
SCANDINAVIA.	Haparanda ...	29.12	36	NW	8	b	29.54	+ .50	35	33	+ 7	NW	8	bc	*	36	27	-	
	Hernösand ...	29.71	36	NW	9	b	29.91	+ .39	36	31	- 2	NW	9	b	*	41	32	-	
	Stockholm ...	29.97	34	W	2	b	30.01	+ .23	30	27	- 8	WNW	2	b	*	43	?	-	
	Wisby ...	29.99	36	SSE	4	b	30.03	+ .15	35	31	+ 9	NW	8	b	*	39	34	-	
	Bodö ...	29.68	36	W	8	o	30.23	+ 1.26	37	35	0	NW	6	bc	*	37	34	-	
	Christiansund	30.34	39	W	7	r	30.54	+ 0.58	39	37	- 3	W	4	c	5	42	39	0.04	
	Skudesnaes ...	30.32	37	NW	4	b	30.59	+ .51	32	31	- 10	NW	1	o	3	43	30	-	
	Christiania Fjord (Færder)	30.14	38	NW	2	b	30.41	+ .49	36	31	- 4	WNW	3	b	1	43	34	-	
	Skagen (The Scaw)	30.18	37	N	1	b	30.42	+ .45	36	35	- 3	NNE	2	b	1	39	36	-	
	Fanö ...	30.23	35	NW	3	f	30.44	+ .18	29	29	- 8	NW	2	b	*	37	28	0.16	
BRITISH ISLANDS.	Sumburgh Head	30.37	39	NE	1	o	30.54	+ .41	40	38	0	S	1	o	3	42	35	-	
	Stornoway ...	30.32	41	NE	3	b	30.46	+ .37	42	42	0	SW	5	m	4	47	34	0.04	
	Wick ...	30.36	43	NE	2	o	30.50	+ .34	42	40	- 1	S	1	b	0	45	40	0.02	
	Nairn ...	30.35	41	Z	0	o	30.54	+ .43	40	40	- 3	Z	0	bc	1	43	32	0.24	
	Aberdeen ...	30.36	43	NW	1	bc	30.62	+ .49	40	39	- 9	S	2	bcm	3	50	40	0.05	
	Leith ...	30.30	45	WSW	2	bc	30.62	+ .42	40	40	- 12	W	1	cm	*	53	40	0.07	
	Shields ...	30.31	51	W	4	c	30.66	+ .37	43	42	- 6	NW	1	o	2	52	40	0.01	
	Spurn Head ...	30.41	43	WSW	3	o	30.64	+ .21	39	38	- 4	N	3	bcm	3	47	37	-	
	York ...	30.42	49	W	4	o	30.65	+ .22	43	42	- 5	N	1	o	*	52	41	-	
	Loughborough	30.49	48	WSW	4	o	30.68	+ .16	44	43	- 2	N	2	ogm	*	51	44	-	
GERMANY & HOLLAND.	Ardrossan ...	30.38	48	WSW	2	b	30.64	+ .39	42	42	- 5	ENE	2	rf	1	50	38	0.08	
	Malin Head ...	30.37	46	SW	2	om	30.56	+ .39	46	46	- 1	S	3	o	1	49	45	0.04	
	Mullaghmore ...	30.45	48	SW	4	od	30.60	+ .32	46	45	- 4	SSW	4	c	3	50	46	0.18	
	Belmullet ...	30.46	50	WSW	3	o	30.58	+ .30	45	44	- 5	S	3	b	*	51	44	0.07	
	Donaghadee ...	30.42	52	NW	4	o	30.66	+ .31	47	47	- 3	WSW	3	c	1	53	47	0.03	
	Liverpool (Bidston)	30.49	48	WSW	4	o	30.68	+ .20	44	44	- 3	WNW	1	f	1	51	43	0.02	
	Holyhead ...	30.52	47	WSW	4	og	30.68	+ .20	47	47	+ 1	Z	0	og	0	50	46	-	
	Parsonstown ...	30.53	50	Z	0	o	30.66	+ .22	45	44	- 4	Z	0	o	*	52	43	-	
	Valencia ...	30.57	49	SSW	3	om	30.66	+ .15	44	42	- 6	SE	3	b	4	51	43	0.02	
	Roche's Point...	30.59	48	WSW	3	c	30.69	+ .14	44	42	- 4	WSW	3	c	4	49	44	0.01	
FRANCE AND BELGIUM.	Pembroke (St. Ann's Hd.)	30.62	46	SW	4	c	30.71	+ .11	45	44	0	WNW	2	cf	3	46	45	0.03	
	Scilly ...	30.65	47	WSW	3	o	30.71	+ .06	45	43	- 2	NNE	1	c	4	48	42	-	
	Prawle Point ...	30.68	44	W	2	o	30.71	+ .04	42	41	- 3	NW	2	b	1	45	40	-	
	Jersey (St. Aubin's)	30.71	46	W	3	og	30.70	- .02	45	43	+ 6	WNW	2	cm	2	48	38	-	
	Hurst Castle ...	30.64	43	W	3	c	30.67	+ .03	43	43	0	NW	2	c	2	45	42	-	
	Dungeness ...	30.59	43	W	4	o	30.58	- .03	44	41	+ 1	W	3	o	1	45	41	-	
	London ...	30.59	45	WSW	1	o	30.64	+ .03	47	46	+ 3	W	1	og	*	49	44	-	
	Oxford ...	30.60	44	WSW	2	o	30.67	+ .07	45	44	0	W	2	o	*	47	43	-	
	Cambridge ...	30.53	44	WSW	1	o	30.64	+ .08	42	41	- 3	N	1	o	*	50	41	-	
	Yarmouth ...	30.47	45	W	3	cm	30.59	+ .09	38	37	- 6	NW	2	bc	2	47	36	-	
PENINSULA.	Cuxhaven ...	30.35	37	WSW	3	r	30.39	- .03	32	31	- 8	NE	1	f	*	38	30	0.08	
	Berlin ...	?	40	WNW	4	r	30.26	- .19	39	38	+ 1	NW	4	o	*	41	37	0.16	
	Wiesbaden ...	*	*	*	*	*	30.45	- .21	38	37	+ 7	SW	2	o	*	38	31	0.04	
	Munich ...	30.60	35	SW	1	o	30.45	- .20	38	33	0	W	4	o	*	37	32	0.04	
	The Helder ...	30.43	38	SW	2	r	30.54	+ .02	35	35	- 2	N	2	b	3	41	35	0.16	
	Brussels (9 a.m.)	*	*	*	*	*	30.54	- .04	41	41	0	WNW	3	f	*	41	34	0.04	
	Cape Gris Nez	30.58	41	WSW	4	bc	30.57	- .04	43	41	+ 2	N	3	m	3	43	39	-	
	Paris ...	30.71	39	NNE	1	o	30.61	- .13	39	39	+ 8	WSW	1	o	*	41	31	-	
	Brest ...	30.75	45	Z	0	b	30.73	- .00	43	41	+ 3	E	2	o	3	50	37	-	
	Lorient ...	30.73	35	SSE	1	m	30.72	- .00	36	35	0	ENE	1	m	5	48	32	-	
FRANCE AND BELGIUM.	Rochefort ...	30.67	42	NNE	3	b	30.67	- .04	35	35	- 2	NE	4	o	*	46	28	-	
	Belfort ...	?	35	W	2	o	?	?	32	?	- 4	W	4	o	*	43	30	-	
	Lyons ...	30.75	32	N	1	b	30.67	- .04	31	30	- 2	N	1	o	*	35	31	-	
	Nice ...	30.56	45	Z	0	b	30.44	- .08	42	35	- 1	E	4	b	2	54	37	-	
	Perpignan ...	30.60	43	W	1	b	30.55	- .03	39	35	- 1	NW	2	b	*	52	36	-	
	Biarritz ...	30.64	44	ENE	2	o	30.64	- .02	40	35	+ 1	ESC	1	b	2	46	34	-	

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

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

for 8 am. on Wednesday, 4th Feb^y 1891

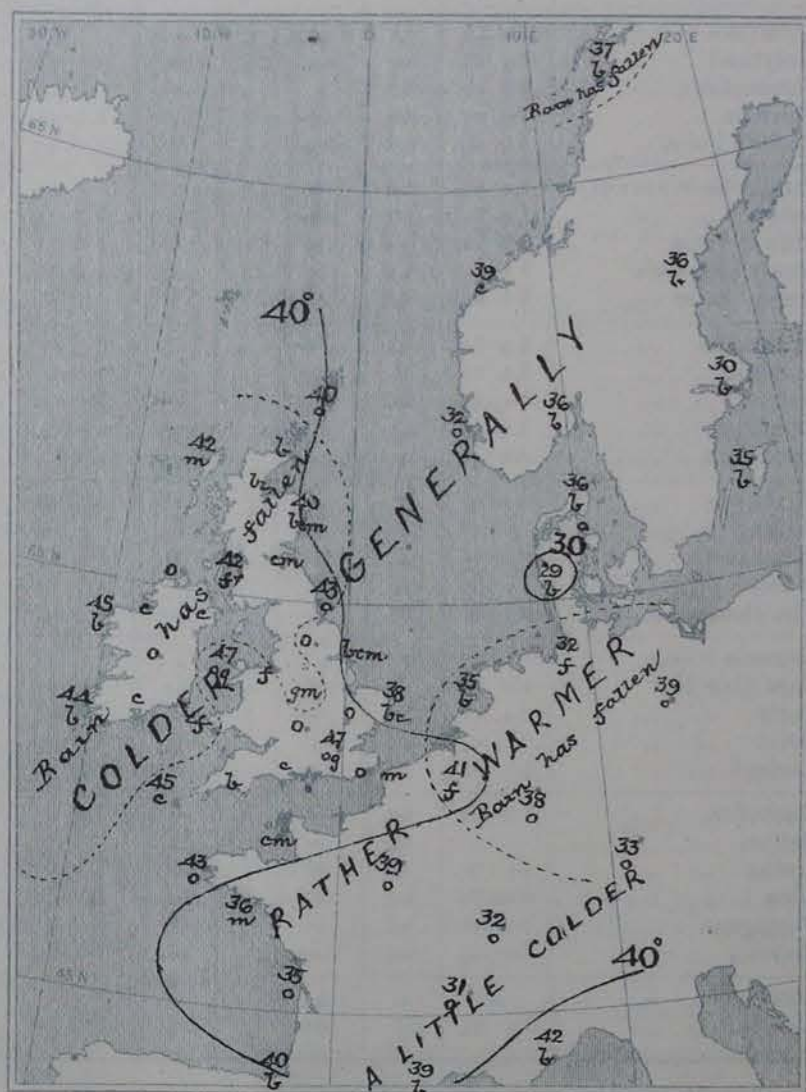


WEATHER is shown by Letters of the Beaufort Scale.

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.	
Sunburgh Head.....	42·4	34·5	38·5	37·4	3·19
Stornoway.....	43·5	34·6	39·1	38·1	3·86
Wick.....	43·1	33·2	38·1	36·7	2·04
Nairn.....	43·4	31·4	37·1	35·4	1·48
Aberdeen.....	43·2	33·8	37·8	35·7	2·35
Leith.....	45·7	34·3	38·6	37·1	1·45
Shielda.....	43·8	35·1	38·6	37·3	1·50
Saun Head.....	42·8	35·5	38·4	37·6	1·36
York.....	44·0	33·9	37·5	36·4	1·70
Loughborough.....	45·3	38·9	37·5	36·4	1·78
Ardrossan.....	44·6	36·3	39·4	38·2	3·04
Mullaghnore.....	46·6	38·6	42·0	40·3	2·80
Donzhadec.....	45·6	36·9	40·3	39·3	2·42
Holyhead.....	45·5	38·7	41·5	40·1	2·60
Liverpool.....	44·5	36·2	38·9	37·3	1·69
Parsenstown.....	46·9	35·6	39·4	38·1	2·20
Valencia.....	49·7	40·7	44·6	42·9	4·95
Roche's Point.....	48·4	39·6	43·1	41·6	4·43
Pembroke.....	45·5	39·4	42·1	40·9	2·82
Bally.....	48·9	42·8	45·0	44·4	2·71
Prawle Point.....	46·8	33·1	41·5	40·5	2·02
Jersey.....	46·9	39·3	42·3	41·0	2·55
Hurst Castle.....	45·7	36·7	40·3	39·3	2·30
Dover.....	44·4	36·1	39·2	38·1	1·95
LONDON.....	45·8	33·1	38·6	37·4	1·73
Oxford.....	45·0	34·0	37·9	36·8	1·92
Cambridge.....	45·5	32·8	37·8	36·2	1·46
Yarmouth.....	42·6	34·5	38·2	37·5	1·82



GENERAL SITUATION AT 8 A.M.

PRESSURE

Highest, 30.7 in. and upwards, over the southwest of England and northwest of France; 30.6 in. and upwards, over the greater part of our Islands and France.
Lowest, 30.0 in. and less, over the Gulf of Bothnia and the north of Sweden.
Gradients moderate over Scandinavia, but slight elsewhere.

Barometer falling a little in France and Germany, but rising elsewhere, quickly in Scandinavia.

TEMPERATURE

Highest, 47° at Holyhead and Donaghadee, 46° at Malin Head and Mullaghmore, and 45° at Balmullet, Pargnewater, Kesh, and Jersey.
Lowest, 29° at Yarm, 30° at Stockholm, 31° at Lyons, 32° at Limerick, Copenhagen, and Rostock, and 33° at Munich.

During yesterday the thermometer rose to 50° or a little more in the west and north of our Islands.

WIND

Light or moderate from the S.W. in the extreme west and north of our Islands.

Light from the N.W. over Denmark, the Netherlands, and the eastern and central parts of England; strong to a gale from the same quarter in Sweden.
Light from the W. over Germany and the east of France, and from the E. in the west and south of France.

WEATHER

Cloudy or overcast over the greater part of our Islands, France and Germany, with mist or fog in many places.

Fine on the west coast of Ireland and the east coast of Great Britain, as well as in Scandinavia, Denmark, and the south of France.

Rain fell yesterday in the west and north of our Islands as well as over Germany and the Netherlands.

SEA

Moderate to smooth generally, but rather rough at Christiansund and Lorient.

PROBABLE CHANGES IN SYSTEM NOW PREVALENT

The barometer continues to rise steadily in the west, but the wind has backed to the S.W. in many parts of Ireland and Scotland, so that another depression is probably about to skirt our extreme northwestern and northern coasts.

FORECASTS

For the 24 hours ending at NOON on 5TH FEB^R 1891.

DISTRICTS.

FORECASTS.

0	SCOTLAND NORTH	SW ² winds, freshening; fine to dull and some rain.
1	SCOTLAND EAST	S ² winds, light or moderate; fair generally.
2	ENGLAND N.E.	Same as No 5
3	ENGLAND EAST	
4	MIDLAND COUNTIES	
5	ENGLAND SOUTH	N ² and NW ² winds, light; cloudy, mist or fog locally.

DISTRICTS.

FORECASTS.

6	SCOTLAND WEST	Light breezes, chiefly SW ² ; dull, slight rain locally.
7	ENGLAND N.W.	
8	ENGLAND S.W.	Light variable breezes, fair generally.
9	IRELAND NORTH	S ² winds, freshening; fair to dull and some rain.
10	IRELAND SOUTH	

WARNINGS

NONE ISSUED.

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

YESTERDAY'S 2 P.M. REPORTS.

	BAR.	THER.		WIND		WEA.	SEA		BAR.	THER.		WIND		WEA.	SEA
		D.	W.	D.	F.					D.	W.	D.	F.		
Skudesnaes ...	30.16	41	39	N.W.	4	b.c.	3	Holyhead ...	30.49	47	46	SW	5	o.g.m.	5
Sumburgh Head ...	30.25	41	39	N.E.	1	b.c.	3	Valencia ...	30.55	51	50	SW	5	o.m.c.	4
Stornoway ...	30.22	47	45	N.E.	4	b.	4	Scilly ...	30.65	48	46	SW	4	o.	5
Aberdeen ...	30.21	44	43	N.E.	3	o.g.d.	4	Jersey ...	30.72	48	45	W	3	o.	3
Shields ...	30.31	52	49	SW	3	d.	2	Dungeness ...	30.58	45	43	W	4	c.	2
Ardrossan ...	30.26	50	49	WSW	4	c.	3	London ...	30.58	49	47	W	2	o.	2
Malin Head ...	30.28	48	47	W	5	o.	3	Yarmouth ...	30.47	47	45	WNW	4	o.m.	2
Mullaghmore ...	30.38	49	49	SW	5	o.d.	4	Rochefort ...	30.69	44	42	N.E.	3	b.	2
Belmullet ...	30.39	50	50	WSW	3	o.	*								

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

Weather in morning fine and bright over southern and southwestern Europe, cloudy or overcast elsewhere; foggy in many parts of France, western and northern Germany, still rainy in the northwest and north of our Islands and in Norway. Some rain at all our western and northern stations during the day, as well as over the Netherlands and North Germany, weather dull but fair over England.

Temperature over our England and the North Sea as well as over southern Russia, fallen over England, France and western Germany. Morning readings 50° or more in the west of Ireland at Oporto and several Mediterranean stations; exceeding 40° over the British Islands generally and the west of Norway, much lower elsewhere. Lowest (1) 4° F. at Nisleniff, 16° at Kharkov, 17° at Odessa; (2) 18° at Archangel, 27° at Moscow, 18° at Haparanda; (3) 26° at Turin, 31° at Paris and Wiesbaden. Rising during day to between 50° and 53° in many parts of Ireland and Scotland and to between 45° and 50° over England.

Wind W² to SW³ over the British Islands and the northern half of continental Europe; blowing a gale in Norway and a fresh breeze over the western parts of our Islands. E¹ to N¹ light to moderate on the northern shores of the Mediterranean, very light from the W² over Germany and southern Russia, very light and variable over central France. Shifting to the N² in Scotland later, not much change elsewhere.

Barometer highest, 30.7 ins. and more to 30.5 ins. in an anticyclone covering the greater part of western Europe, Austria and south Germany and in a "col" extending from Hungary to the Black Sea and Southern Russia. Lowest 29.0 ins. and less in a deep depression over Lapland, 30.1 ins. and less, in a shallow secondary over the west of Scotland, and 30.3 ins. and less over the eastern part of Algeria. Scotch depression falling up later and barometer rising quickly on all our northern coasts.

EXPLANATION OF COLUMNS GIVEN ON PAGE 1.

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

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

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

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

DAILY WEATHER REPORT.

for Thursday, 5th February, 1891.
Issued by the Meteorological Office, 63, Victoria Street, London. R. H. SCOTT, Secretary.

R. H. SCOTT, Secretary.																	
8 A.M. TO DAY.																	
PAST 24 HOURS.																	
YESTERDAY EVENING.																	
BAROMETER.																	
SHADE TEMP.																	
WIND.																	
SHADE TEMP.																	
STATIONS.																	
BAROMETER.																	
SHADE TEMP.																	
WIND.																	
SHADE TEMP.																	
STATIONS.																	
BAROMETER.																	
SHADE TEMP.																	
WIND.																	
SHADE TEMP.																	
STATIONS.																	
BAROMETER.																	
SHADE TEMP.																	
WIND.																	
SHADE TEMP.																	
STATIONS.																	
BAROMETER.																	
SHADE TEMP.																	
WIND.																	
SHADE TEMP.																	
STATIONS.																	
BAROMETER.																	
SHADE TEMP.																	
WIND.																	
SHADE TEMP.																	
STATIONS.																	
BAROMETER.																	
SHADE TEMP.																	
WIND.																	
SHADE TEMP.																	
STATIONS.																	
BAROMETER.																	
SHADE TEMP.																	
WIND.																	
SHADE TEMP.																	
STATIONS.																	
BAROMETER.																	
SHADE TEMP.																	
WIND.																	
SHADE TEMP.																	
STATIONS.																	
BAROMETER.																	
SHADE TEMP.																	
WIND.																	
SHADE TEMP.																	
STATIONS.																	
BAROMETER.																	
SHADE TEMP.																	
WIND.																	
SHADE TEMP.																	
STATIONS.																	
BAROMETER.																	
SHADE TEMP.																	
WIND.																	
SHADE TEMP.																	
STATIONS.																	
BAROMETER.																	
SHADE TEMP.																	
WIND.																	
SHADE TEMP.																	
STATIONS.																	
BAROMETER.																	
SHADE TEMP.																	
WIND.																	
SHADE TEMP.																	
STATIONS.																	
BAROMETER.																	
SHADE TEMP.																	
WIND.																	
SHADE TEMP.																	
STATIONS.																	
BAROMETER.																	
SHADE TEMP.																	
WIND.																	
SHADE TEMP.																	
STATIONS.																	
BAROMETER.																	
SHADE TEMP.																	
WIND.																	
SHADE TEMP.																	
STATIONS.																	
BAROMETER.																	
SHADE TEMP.																	
WIND.																	
SHADE TEMP.																	
STATIONS.																	
BAROMETER.																	
SHADE TEMP.																	
WIND.																	
SHADE TEMP.																	
STATIONS.																	
BAROMETER.																	
SHADE TEMP.																	
WIND.																	
SHADE TEMP.																	
STATIONS.																	
BAROMETER.																	
SHADE TEMP.																	
WIND.																	
SHADE TEMP.																	
STATIONS.																	
BAROMETER.																	
SHADE TEMP.																	
WIND.																	
SHADE TEMP.																	
STATIONS.																	
BAROMETER.																	
SHADE TEMP.																	
WIND.																	
SHADE TEMP.																	
STATIONS.																	
BAROMETER.																	
SHADE TEMP.																	
WIND.																	
SHADE TEMP.																	
STATIONS.																	
BAROMETER.																	
SHADE TEMP.																	
WIND.																	
SHADE TEMP.																	
STATIONS.																	
BAROMETER.																	
SHADE TEMP.																	
WIND.																	
SHADE TEMP.																	
STATIONS.																	
BAROMETER.																	
SHADE TEMP.																	
WIND.																	
SHADE TEMP.																	
STATIONS.																	
BAROMETER.																	
SHADE TEMP.																	
WIND.																	
SHADE TEMP.																	
STATIONS.																	
BAROMETER.																	
SHADE TEMP.																	
WIND.																	
SHADE TEMP.																	
STATIONS.																	
BAROMETER.																	
SHADE TEMP.																	
WIND.																	
SHADE TEMP.																	
STATIONS.																	
BAROMETER.																	
SHADE TEMP.																	
WIND.																	
SHADE TEMP.																	
STATIONS.																	
BAROMETER.																	
SHADE TEMP.																	
WIND.																	
SHADE TEMP.																	
STATIONS.																	
BAROMETER.																	
SHADE TEMP.																	
WIND.																	
SHADE TEMP.																	
STATIONS.																	
BAROMETER.																	
SHADE TEMP.																	
WIND.																	
SHADE TEMP.																	
STATIONS.																	
BAROMETER.																	
SHADE TEMP.																	
WIND.																	
SHADE TEMP.																	
STATIONS.																	
BAROMETER.																	
SHADE TEMP.																	
WIND.																	
SHADE TEMP.																	
STATIONS.																	
BAROMETER.																	
SHADE TEMP.																	
WIND.																	
SHADE TEMP.																	
STATIONS.																	
BAROMETER.																	
SHADE TEMP.																	
WIND.																	
SHADE TEMP.																	
STATIONS.																	
BAROMETER.																	
SHADE TEMP.																	
WIND.																	
SHADE TEMP.																	
STATIONS.																	
BAROMETER.																	
SHADE TEMP.																	
WIND.																	
SHADE TEMP.																	
STATIONS.																	
BAROMETER.																	
SHADE TEMP.																	
WIND.																	
SHADE TEMP.																	
STATIONS.																	
BAROMETER.																	
SHADE TEMP.																	
WIND.																	
SHADE TEMP.																	
STATIONS.																	
BAROMETER.																	
SHADE TEMP.																	
WIND.																	
SHADE TEMP.																	
STATIONS.																	
BAROMETER.																	
SHADE TEMP.																	
WIND.																	
SHADE TEMP.																	
STATIONS.																	
BAROMETER.																	
SHADE TEMP.																	
WIND.																	
SHADE TEMP.																	
STATIONS.																	
BAROMETER.																	
SHADE TEMP.																	
WIND.																	
SHADE TEMP.																	
STATIONS.																	
BAROMETER.																	
SHADE TEMP.																	
WIND.																	
SHADE TEMP.																	
STATIONS.																	
BAROMETER.																	
SHADE TEMP.																	
WIND.																	
SHADE TEMP.																	
STATIONS.																	
BAROMETER.																	
SHADE TEMP.																	
WIND.																	
SHADE TEMP.																	
STATIONS.																	
BAROMETER.																	
SHADE TEMP.																	
WIND.																	
SHADE TEMP.																	
STATIONS.																	
BAROMETER.																	
SHADE TEMP.																	
WIND.																	
SHADE TEMP.																	
STATIONS.																	
BAROMETER.																	
SHADE TEMP.																	
WIND.																	
SHADE TEMP.																	
STATIONS.																	
BAROMETER.																	
SHADE TEMP.																	
WIND.																	
SHADE TEMP.																	
STATIONS.																	
BAROMETER.																	
SHADE TEMP.																	
WIND.																	
SHADE TEMP.																	
STATIONS.																	
BAROMETER.																	
SHADE TEMP.																	
WIND.																	
SHADE TEMP.																	
STATIONS.																	
BAROMETER.																	
SHADE TEMP.																	
WIND.																	
SHADE TEMP.																	
STATIONS.																	
BAROMETER.																	
SHADE TEMP.																	
WIND.																	
SHADE TEMP.																	
STATIONS.																	
BAROMETER.																	
SHADE TEMP.																	
WIND.																	
SHADE TEMP.																	
STATIONS.																	
BAROMETER.																	
SHADE TEMP.																	
WIND.																	
SHADE TEMP.																	
STATIONS.																	
BAROMETER.																	
SHADE TEMP.																	
WIND.																	
SHADE TEMP.																	
STATIONS.																	
BAROMETER.																	
SHADE TEMP.																	
WIND.																	
SHADE TEMP.																	
STATIONS.																	
BAROMETER.																	
SHADE TEMP.																	
WIND.																	
SHADE TEMP.																	
STATIONS.																	
BAROMETER.																	
SHADE TEMP.																	
WIND.																	
SHADE TEMP.																	
STATIONS.																	
BAROMETER.																	
SHADE TEMP.																	
WIND.																	
SHADE TEMP.																	
STATIONS.																	
BAROMETER.																	
SHADE TEMP.																	
WIND.																	
SHADE TEMP.																	
STATIONS.																	
BAROMETER.																	
SHADE TEMP.																	
WIND.																	
SHADE TEMP.																	
STATIONS.																	

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, 5th February, 1891.

BAROMETER, WIND AND SEA.

EXPLANATION OF MAP

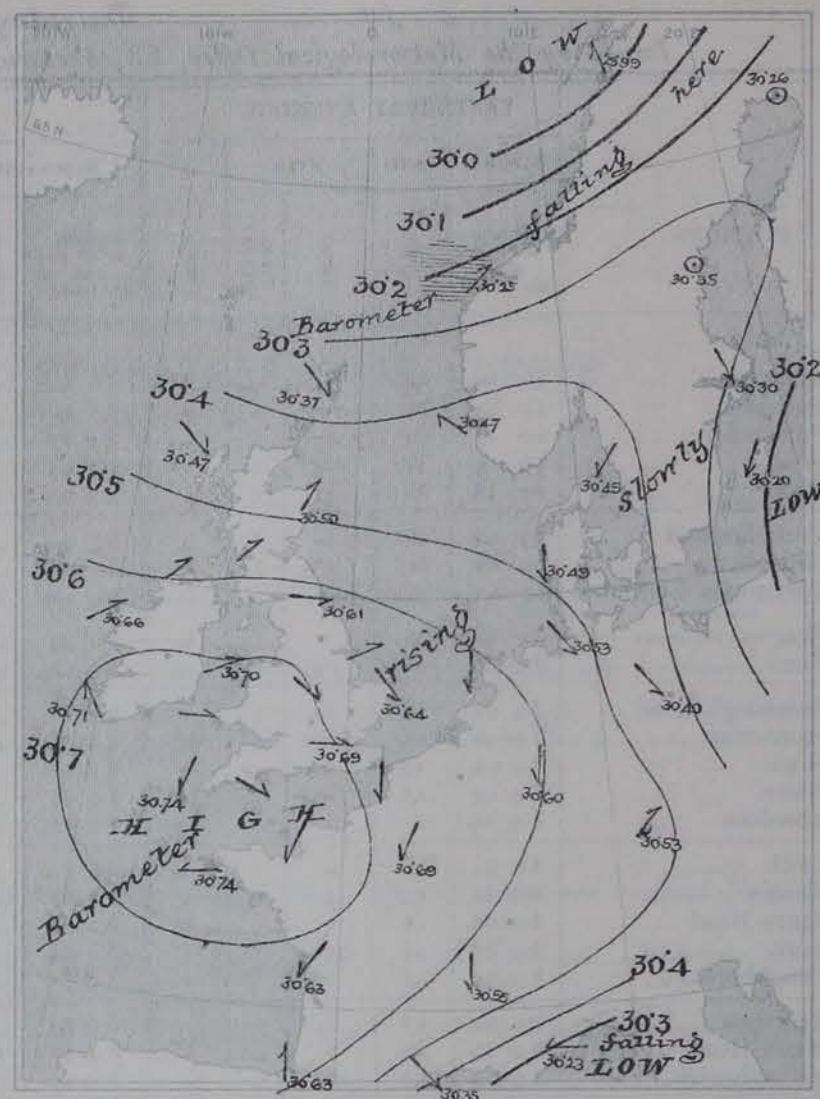
BAROMETER—Isobars are drawn for each tenth of an inch. Changes since previous morning are stated in words.
WIND—Arrows show the prevalent winds. They fly with the wind and their bars and feathers refer to force thus:
 ———— force above 10; ———— force 8 to 10;
 ———— force 5 to 7; ———— force 1 to 4.
 ○ = dead calm.

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

MEAN HEIGHT OF THE BAROMETER

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

STATIONS.	MEAN READINGS.
Sumburgh Head	29.775
Stornoway	29.773
Wick	29.801
Nairn	29.811
Aberdeen	29.848
Leith	29.870
Shields	29.900
Spurn Head	29.924
York	29.939
Loughborough	29.968
Ardsman	29.875
Mullaghmore	29.812
Donaghadee	29.881
Holyhead	29.914
Liverpool	29.931
Parsanstown	29.946
Valencia	29.919
Rocha's Point	29.919
Pembroke	29.947
Sally	29.959
Pravle Point	29.993
Jersey	30.007
Harst Castle	29.989
Dover	29.993
LONDON	29.980
Oxford	29.985
Cambridge	29.976
Yarmouth	29.961



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

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

WEATHER—Is shown by Letters of the Beaufort Scale.

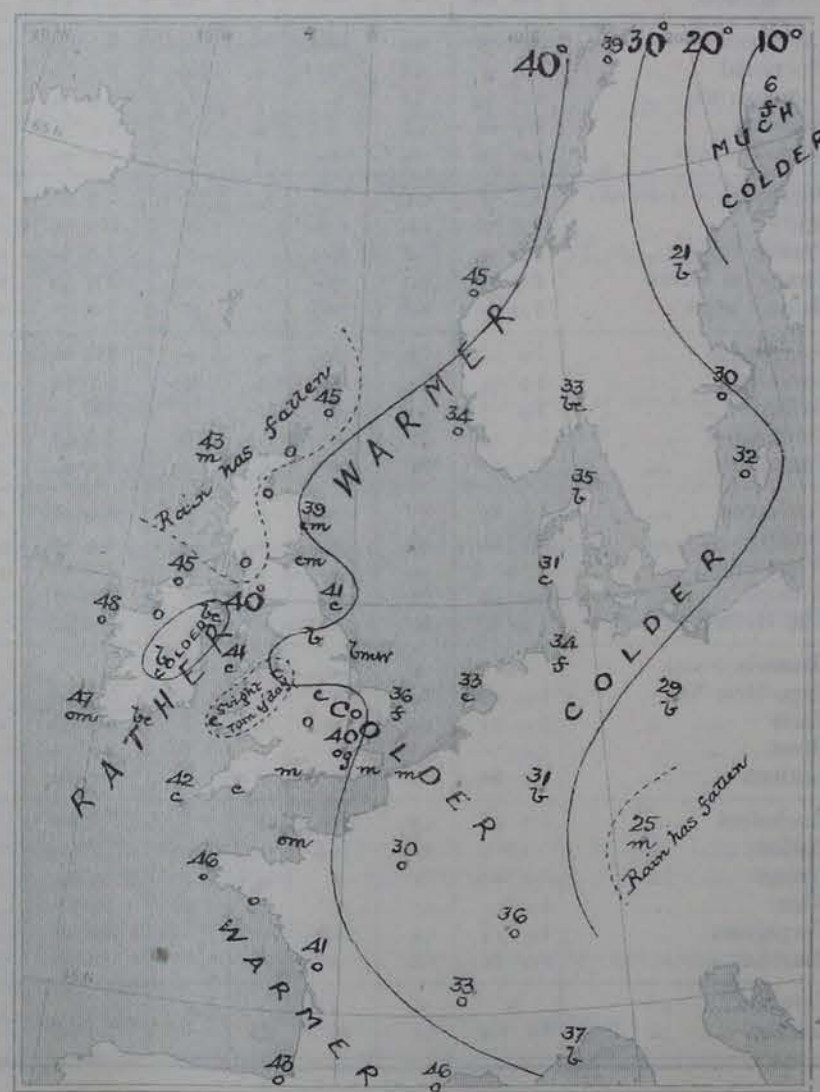
RAINFALL—A dotted line separates the districts in which rain has fallen from those where there has been none. Falls of 0.5 in. or more are quoted in figures.

MEANS OF TEMPERATURE IN SHADE, AND RAINFALL

(For the month of February.)

STATIONS.	TEMPERATURE.				RAINFALL. (Inches.)
	Daily Max.	Daily Min.	At 8 a.m.	At 4 p.m.	
Sumburgh Head	42.4	31.5	38.5	37.1	0.10
Stornoway	43.5	31.6	38.1	38.1	2.80
Wick	43.1	33.2	38.1	36.7	2.03
Nairn	43.4	34.4	37.1	35.4	1.48
Aberdeen	44.2	33.8	37.8	35.7	2.55
Leith	44.7	34.3	38.6	37.1	1.45
Shields	43.8	35.1	38.6	37.3	1.50
Spurn Head	42.8	33.5	38.4	37.6	1.30
York	44.6	33.8	37.8	36.4	1.70
Loughborough	45.4	33.9	37.5	36.4	1.78
Ardsman	41.8	35.8	39.4	38.2	3.04
Mullaghmore	40.6	38.0	43.0	40.3	2.80
Donaghadee	45.6	38.0	40.3	39.8	2.42
Holyhead	45.5	38.7	41.5	40.1	2.80
Liverpool	44.5	36.2	38.9	37.3	1.68
Parsanstown	45.0	35.6	39.4	38.1	2.20
Valencia	40.7	40.7	44.6	42.9	4.95
Rocha's Point	48.1	39.0	43.1	41.6	4.43
Pembroke	45.5	39.4	42.1	40.9	2.82
Sally	43.9	42.8	45.0	41.4	2.71
Pravle Point	45.8	38.1	41.5	40.5	2.02
Jersey	40.9	39.3	42.3	41.0	2.55
Harst Castle	45.7	39.7	40.3	39.3	2.30
Dover	44.4	39.1	39.2	38.1	1.95
LONDON	45.8	35.1	38.6	37.4	1.73
Oxford	45.9	34.2	37.9	36.8	1.92
Cambridge	45.5	32.8	37.3	36.2	1.45
Yarmouth	43.6	31.5	38.2	37.3	1.82

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



GENERAL SITUATION AT 8 A.M.

PRESSURE

Highest, 30.6 ins. to 30.7 ins. and upwards, in an anticyclone lying over Ireland, England, the Netherlands, and the greater part of France.
Lowest, 30.0 ins. and less, in a depression lying off the west of Norway, 30.3 ins. and less in the extreme south of France.
Gradients slight. Barometer rising at all but the Norwegian stations.

TEMPERATURE

Highest, 48° at Balmuccia, 47° at Naum, Mullaghmore and Valencia Island, and 46° at Brest and Perpignan.
Lowest, 6° at Haparanda, 21° at Helsingfors, 25° at Munich, 29° at Berlin, and 30° at Stockholm and Parosetown.
During yesterday the thermometer rose to between 45° and 50° in most part of the United Kingdom.

WIND

Light from the Wnd (SW to NW) over the greater part of the United Kingdom.
Nth over Denmark, the Netherlands and the south of Scandinavia; strong in force in the south of Sweden.
Light or moderate from between N. and E. in France.

WEATHER

Fair generally but dull in the extreme west and north of our Islands and also in France.
Foggy at Haparanda, Cuxhaven and Yarmouth.
Light rain fell yesterday at one or two of our northern and western stations.

SEA

Slight or smooth generally, but rather rough at Christiansund.

PROBABLE CHANGES IN SYSTEM NOW PREVALENT

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

FORECASTS

For the 24 hours ending at NOON on 6th FEB^{ry} 1891.

DISTRICTS.

FORECASTS.

- | | | |
|---|------------------|--|
| 0 | SCOTLAND NORTH | Varying W nd winds, light; cloudy, some mist or fog. |
| 1 | SCOTLAND EAST | |
| 2 | ENGLAND N.E. | W nd and NW nd winds, light, fair generally but local fogs |
| 3 | ENGLAND EAST | |
| 4 | MIDLAND COUNTIES | |
| 5 | ENGLAND SOUTH | N th winds, light; fair generally, but local fogs. |

DISTRICTS.

FORECASTS.

- | | | |
|----------|---------------|---|
| 6 | SCOTLAND WEST | W nd or SW nd winds, light or moderate; fair generally. |
| 7 | ENGLAND N.W. | |
| 8 | ENGLAND S.W. | Light variable airs; fair generally but local fogs. |
| 9 | IRELAND NORTH | Same as N ^o 6 and 7. |
| 10 | IRELAND SOUTH | 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.

	BAR.	THER.		WIND		WEA	SEA		BAR.	THER.		WIND		WEA.	SEA
		D.	W.	D.	F.					D.	W.	D.	F.		
Skudeanaes ...	30.59	38	35	N	2	6	3		Holyhead ...	30.69	48	47	SW	3	1
Sumburgh Head ...	30.50	43	43	SSW	2	0	3		Valencia ...	30.67	49	46	SE	5	5
Stornoway ...	30.46	48	47	SW	3	0	4		Scilly ...	30.71	48	45	ESE	1	4
Aberdeen ...	30.58	46	44	S	2	0	3		Jersey ...	30.70	48	46	NW	3	3
Shields ...	30.68	46	42	S	2	0	2		Dungeness ...	30.64	44	42	NNE	4	1
Ardrossan ...	30.64	46	45	S	1	0	1		London ...	30.69	46	44	NW	2	8
Mulin Head ...	30.57	49	46	S	4	0	2		Yarmouth ...	30.66	39	37	NNE	3	1
Mullaghmore ...	30.60	47	45	NW	1	0	3		Rocheport ...	30.64	40	39	NE	3	4
Belmullet ...	30.59	47	46	S	2	0	*								

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

Weather fair generally over southern, western and northwestern Europe and at many stations fine and bright; dull over Russia, central and southeastern Europe, with snow at Kiev and Warsaw, fog or haze in several parts of our Islands and the north of France. Some rain later in the extreme north and northwest of our Islands and at Munich; weather dry and fair elsewhere.

Temperature fallen a little in our Islands, over France, south Germany and Russia. Morning readings exceeding 50° on the southern shores of the Mediterranean only, but exceeding 40° all over the United Kingdom and on the Portuguese coast; lower elsewhere. Lowest 22° at Hermannstadt, 23° at Kharkov and Aichangell, 26° at Nicolaieff, and below 32° at most of the Russian stations. Rising to 50° or more in the south of France and at some of our own stations later, but not exceeding 45° in Germany.

Wind moderate S in the extreme west and northwest of our Islands, very light and variable over the British Islands as a whole, N to NE light over France and Spain; N to NW strong, over Sweden and the Baltic (a gale at Helsingfors and Hangö) NW to W over Germany, Austria-Hungary, and Poland, W to SW very light over the southern half of Russia. No change of importance later.

Barometer highest 30.7 ins. and more to 30.5 ins. in an anticyclone lying over Western Europe, and exceeding 30.4 ins. over south Germany, the Adriatic and southeastern Europe. Lowest 29.4 ins. and less, in a well marked depression over northern Russia. Gradients slight in the west, steep over Finland, the Baltic and Sweden, moderate over Germany and western Russia. Inclined to fall slightly over France and Spain later; no change 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.

DAILY WEATHER REPORT.

for *Friday, 6th February, 1891.*
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.	
				Force, (0 to 12.)	Direc.		Reading at 32° F. and Sea Level.	Difference from 8 a.m. yesterday.	Dry.	Wet.	Difference from 8 a.m. yesterday.	Direc.	Force, (0 to 12.)			Max.	Min.		
SCANDINAVIA.	Haparanda ...	30.08	26	S	2	bc	30.03	-23	19	19	+13	2	0	c	*	28	5	-	
	Hernösand ...	30.23	31	2	0	0	30.24	-11	23	23	+2	2	0	c	*	29	19	-	
	Stockholm ...	30.38	26	2	0	0	30.35	+05	25	23	-5	2	0	c	*	31	25	-	
	Wisby ...	30.50	32	N	6	0	30.31	+11	31	29	-1	2	0	c	*	32	30	-	
	Bodö ...	30.10	41	WSW	6	c	29.66	-33	42	39	+3	2	0	c	*	32	34	0.04	
	Christiansund ...	30.32	41	WSW	2	0	30.11	-14	44	38	-1	2	0	c	*	45	37	0.16	
	Skudesnaes ...	30.43	35	ESE	2	0	30.45	-02	34	34	0	2	0	c	*	36	28	0.08	
	Christiania Fjord (Færdø)	30.34	32	N	2	0	30.36	-07	30	30	-3	2	0	c	*	36	28	-	
	Skagen (The Scaw)	30.38	33	SW	1	f	30.39	-08	32	32	-3	2	0	c	*	36	32	-	
	Fanö ...	30.47	33	WSW	1	f	30.48	-01	33	33	+2	2	0	c	*	34	30	-	
BRITISH ISLANDS.	Sumburgh Head	30.43	41	W	1	0	30.24	-13	45	45	0	2	0	c	*	47	38	0.01	
	Stornoway ...	30.46	43	W	3	c	30.36	-11	47	45	+4	5	0	c	*	47	40	-	
	Wick ...	30.49	42	2	0	0	30.35	-10	43	42	-2	2	0	c	*	49	36	0.02	
	Nairn ...	30.48	45	W	1	0	30.40	-06	45	44	-2	1	0	c	*	47	45	0.03	
	Aberdeen ...	30.53	44	NW	1	c	30.46	-04	39	38	0	1	0	c	*	49	38	0.02	
	Leith ...	30.55	47	W	1	0	30.52	-02	46	45	+4	3	0	c	*	50	41	-	
	Shields ...	30.56	45	W	3	c	30.55	-06	43	42	+2	3	0	c	*	48	39	-	
	Spurn Head ...	30.51	48	NW	3	om	30.59	-02	41	40	+3	2	0	c	*	42	37	0.01	
	York ...	30.57	42	W	2	bc	30.60	-04	42	41	+5	1	0	c	*	46	36	-	
	Loughborough	30.66	42	NW	1	c	30.62	-05	43	42	+1	1	0	c	*	47	39	-	
GERMANY & HOLLAND.	Ardrossan ...	30.58	48	SW	2	0	30.54	-07	45	45	+1	2	0	c	*	48	44	0.01	
	Malin Head ...	30.56	46	SW	4	c	30.52	-06	46	45	+1	3	0	c	*	48	45	0.02	
	Mullaghmore ...	30.63	48	SW	3	om	30.59	-05	47	47	0	4	0	c	*	49	46	0.05	
	Belmullet ...	30.63	48	WSW	3	0	30.58	-08	48	48	0	2	0	c	*	49	45	0.05	
	Donaghadee ...	30.64	45	WSW	2	c	30.60	-07	46	45	+10	2	0	c	*	48	35	-	
	Liverpool (Bidston)	30.67	44	W	4	0	30.65	-06	43	42	+5	3	0	c	*	46	38	-	
	Holyhead ...	30.69	44	SW	3	og	30.64	-06	46	44	+5	1	0	c	*	47	40	-	
	Parsonstown ...	30.70	45	2	0	c	30.68	-03	44	43	+14	0	0	c	*	51	30	-	
	Valencia ...	30.73	49	W	2	om	30.69	-02	48	45	+1	2	0	c	*	50	46	-	
	Roche's Point...	30.75	48	W	3	c	30.71	-03	46	44	+1	2	0	c	*	50	42	-	
FRANCE AND BELGIUM.	Pembroke (St. Ann's Hd.)	30.73	41	NW	1	c	30.69	-06	45	44	+2	2	0	c	*	46	40	-	
	Scilly ...	30.71	45	NW	4	c	30.69	-05	46	44	+4	3	0	c	*	46	40	-	
	Prawle Point...	30.73	40	2	0	0	30.70	-04	40	39	-4	1	0	c	*	49	35	-	
	Jersey (St. Aubin's)	30.72	46	NW	3	0	30.68	-06	43	41	+1	2	0	c	*	48	41	-	
	Hurst Castle ...	30.70	38	NW	2	0	30.66	-05	35	35	-6	1	0	c	*	47	33	-	
	Dungeness ...	30.66	41	2	0	m	30.60	-09	37	37	0	2	0	c	*	43	32	-	
	London ...	30.67	39	NW	1	bc	30.64	-05	37	36	-3	1	0	c	*	47	34	-	
	Oxford ...	30.71	38	NW	1	bc	30.66	-05	39	38	-1	1	0	c	*	49	33	-	
	Cambridge ...	30.65	41	NW	1	0	30.64	-04	39	39	-4	1	0	c	*	47	35	-	
	Yarmouth ...	30.59	39	2	0	c	30.58	-06	40	39	+4	2	0	c	*	44	35	-	
PENIN. SULA.	Cuxhaven ...	30.51	34	NW	1	f	30.50	-03	35	34	+1	1	0	c	*	37	34	-	
	Berlin ...	30.48	31	NW	4	0	30.53	+13	30	29	+1	3	0	c	*	34	28	-	
	Wiesbaden ...	*	*	*	*	*	30.60	00	30	29	-1	1	0	c	*	37	28	-	
	Munich ...	30.54	27	SW	3	0	30.59	+06	25	24	0	3	0	c	*	32	23	-	
	The Helder ...	30.59	34	NW	1	f	30.56	-08	35	35	+2	1	0	c	*	36	33	-	
	Brussels (9 a.m.)	*	*	*	*	*	30.63	-	33	33	-	2	0	c	*	33	28	-	
	Cape Gris Nez	30.63	39	WSW	1	f	30.61	-06	38	37	+5	1	0	c	*	41	30	-	
	Paris ...	30.71	31	N	3	0	30.65	-04	33	33	+3	1	0	c	*	34	30	-	
	Brest ...	30.75	44	NNE	2	0	30.72	-02	44	42	-2	1	0	c	*	50	39	-	
	Lorient ...	30.71	48	N	2	0	30.69	-03	42	39	-2	2	0	c	*	50	39	-	
PENIN. SULA.	Rochefort ...	30.65	42	NNE	3	0	30.64	+01	33	32	-8	3	0	c	*	50	25	-	
	Belfort ...	?	29	SW	2	0	?	?	28	?	-8	2	0	c	*	37	27	-	
	Lyons ...	30.56	35	N	3	0	30.63	+08	26	25	-7	3	0	c	*	40	26	-	
	Nice ...	30.29	43	SE	1	0	30.38	+15	34	32	-3	4	0	c	*	54	34	-	
	Perpignan ...	30.39	47	NW	5	c	30.42	+07	43	37	-3	5	0	c	*	52	?	-	
	Biarritz ...	30.63	47	N	3	c	30.63	00	38	36	-5	2	0	c	*	50	36	-	

WEATHER CHARTS

for 8 a.m. on Friday, 6th February, 1891.

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 —

— do't calm.

SEA DISTURBANCE—Where considerable, is shown thus:

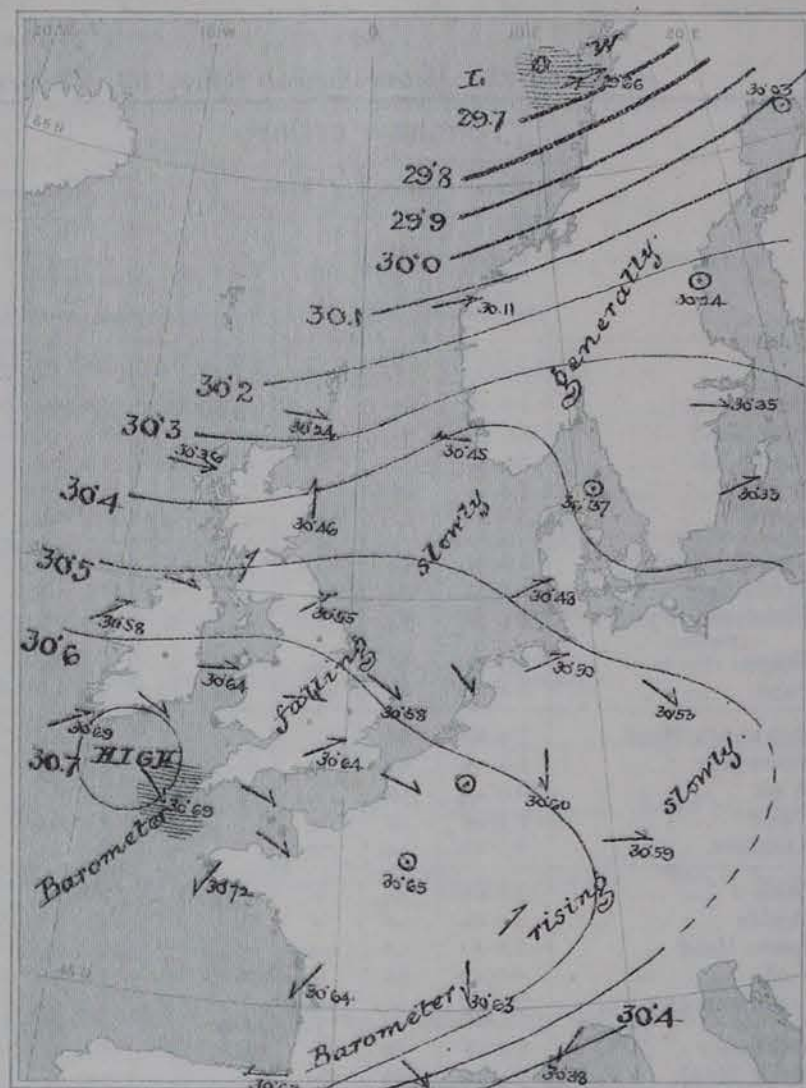
— = Rough. — = High.

MEAN HEIGHT OF THE BAROMETER

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

During the 20 Years: 1871-1890.

STATIONS.	MEAN READINGS.
Sumburgh Head	29.775
Stornoway	29.773
Wick	29.804
Nairn	29.814
Aberdeen	29.848
Leith	29.870
Shields	29.905
Sourth Head	29.934
York	29.939
Loughborough	29.963
Ardrossan	29.873
Mullaghnore	29.842
Dunaghadue	29.884
Holyhead	29.911
Liverpool	29.934
Parsonstown	29.940
Valencia	29.919
Roche's Point	29.916
Pembroke	29.917
Scilly	29.959
Prawle Point	29.993
Jersey	30.007
Hurst Castle	29.986
Dover	29.985
LONDON	29.989
Oxford	29.985
Cambridge	29.979
Yarmouth	29.961



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

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

WEATHER—is shown by letters of the Beaufort Scale.

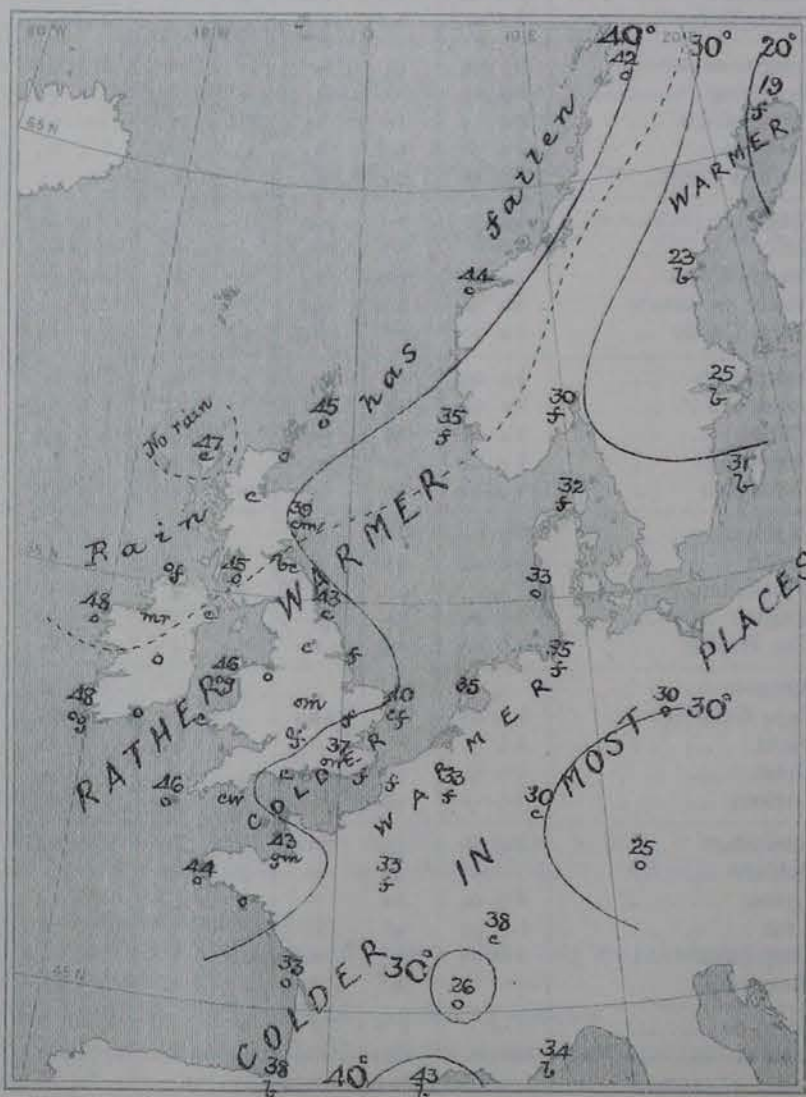
RAINFALL—A dotted line separates the districts in which rain has fallen from those where there has been none. Falls of .5 in. or more are quoted in figures.

MEANS OF TEMPERATURE IN SHADE, AND RAINFALL.

(For the month of February.)

STATIONS.	TEMPERATURE.				RAINFALL. (Inches.)
	Daily Max.	Daily Min.	at 8 a.m.	at 4 p.m.	
Sumburgh Head.....	42.4	34.5	38.5	37.4	3.19
Stornoway	43.5	34.6	39.1	38.1	3.36
Wick	43.1	33.2	38.1	36.7	2.01
Nairn	43.4	33.4	37.1	35.4	1.48
Aberdeen	43.2	33.8	37.8	35.7	2.35
Leith	45.7	34.3	38.6	37.1	1.45
Shields	43.8	35.1	38.5	37.3	1.50
Sourth Head.....	42.8	35.5	38.4	37.6	1.30
York	44.0	33.9	37.5	36.4	1.70
Loughborough	45.4	33.9	37.5	36.4	1.78
Ardrossan	41.0	36.3	39.4	38.2	3.04
Mullaghnore	46.6	38.6	42.0	40.3	2.80
Dunaghadue.....	45.5	36.9	40.3	39.3	2.43
Holyhead	45.5	38.7	41.0	40.1	2.60
Liverpool	44.5	36.2	38.9	37.3	1.69
Parsonstown	46.9	35.6	39.1	38.1	2.20
Valencia	49.7	40.7	44.0	42.9	4.65
Roche's Point	48.4	39.4	43.1	41.6	4.43
Pembroke	45.5	39.1	42.1	40.0	2.92
Scilly	48.9	42.8	45.0	44.4	2.71
Prawle Point	45.8	39.1	41.5	40.5	2.02
Jersey	46.9	39.3	42.3	41.0	2.55
Hurst Castle	45.7	36.7	40.3	39.3	2.30
Dover	44.4	36.1	39.2	38.1	1.95
LONDON	45.8	35.1	38.6	37.4	1.73
Oxford	45.0	34.9	37.9	36.8	1.92
Cambridge	45.5	32.8	37.3	36.2	1.46
Yarmouth	42.6	34.5	38.2	37.3	1.82

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



GENERAL SITUATION AT 8 A.M.

PRESSURE

Highest, 30.6 ins. to 30.7 ins. in an anticyclone lying over the greater part of Ireland, England, and France.
 Lowest, 29.7 ins. and less, in a depression lying off the northwest of Norway.
 Gradients rather steep over the north of Scandinavia, but slight elsewhere.
 Barometer falling at all but the German and southern French stations.

TEMPERATURE

Highest, 48° at Belmullet and Valencia Island, 47° at Mullaghmore and 46° at Malin Beg, Donaghadee, Holyhead, Hooker Point, and Selly.
 Lowest, 19° at Haparanda, 23° at Helsingfors, 25° at Stockholm and Munich, 26° at Lyons, and 28° at Belfast.
 Ground frost occurred last night over the central and southern parts of England.

WIND

Light from the W² (SW. to NW) over the greater part of our Islands and France and also over Denmark and the south of Sweden.
 Strong to a gale from WSW. in the coast of Norway.
 Light from the N² or NE² at most of the French stations.

WEATHER

Cloudy or overcast over the greater part of Western Europe, with fog or mist in many places, and rain at Mullaghmore.
 Fine in Sweden, and also in the south of France.
 A little rain fell yesterday in the extreme northwest and north of our Islands.

SEA

Light or smooth generally, but rather rough at Wex and also at Selly.

PROBABLE CHANGES IN SYSTEM NOW PREVALENT

The barometric fall is at present too slight and uniform to lead to any important change in the weather.

FORECASTS

For the 24 hours ending at NOON on 7th FEB: 1891.

DISTRICTS.	FORECASTS.	DISTRICTS.	FORECASTS.
0 SCOTLAND NORTH	{ W ² _N and SW ² _N winds, light or moderate; fair generally.	6 SCOTLAND WEST	{ SW ² _N and W ² _N winds, light or moderate; drizzle, rain locally.
1 SCOTLAND EAST		7 ENGLAND N.W.	
2 ENGLAND N.E.			8 ENGLAND S.W.	Same as Nos. 3 to 5
3 ENGLAND EAST	{ W ² _N and NW ² _N winds, light; fair generally, but local fogs.	9 IRELAND NORTH	{ Same as Nos. 6 and 7.
4 MIDLAND COUNTIES		10 IRELAND SOUTH	
5 ENGLAND SOUTH			WARNINGS
		NONE ISSUED.	

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

YESTERDAY'S 2 P.M. REPORTS.

	BAR:	THER:		WIND						BAR:	THER:		WIND					
		D.	W.	D.	F.	WEA	SEA				D.	W.	D.	F.	WEA	SEA		
Skudesnaes ...	30.43	31	?	ESE	2	rf	2	Holyhead ...	...	30.70	46	45	SW	3	bc	2		
Sumburgh Head ...	30.40	46	44	SW	1	bc	2	Valencia ...	...	30.72	50	47	SW	3	om	3		
Stornoway ...	30.47	47	45	W	2	c	3	Seilly ...	...	30.75	45	43	WNW	4	c	4		
Aberdeen ...	30.50	49	46	WNW	1	og	1	Jersey ...	...	30.74	46	44	W	2	o	2		
Shields ...	30.58	47	46	W	3	c	2	Dungeness ...	...	30.66	41	40	WNW	3	f	1		
Ardrossan ...	30.59	48	46	SW	2	c	3	London ...	...	30.68	46	44	WNW	2	c	2		
Malin Head ...	30.61	48	46	SW	4	o	2	Yarmouth ...	...	30.61	44	42	W	2	bcm	2		
Mullaghmore ...	30.64	49	46	SSW	4	o	3	Rocheport ...	...	30.66	46	42	W	3	m	2		
Belmullet ...	30.64	48	47	SW	3	o	*											

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

Weather fine and bright over the southern parts of France and Spain and in western Algeria, as well as at several stations in the British Islands, north Germany, and Austria, cloudy or overcast elsewhere, foggy or hazy at some stations, chiefly over the east and southeast of England. Snow falling at many of the Russian stations. Some showers later in Norway, Scotland, and the north of Ireland, none reported elsewhere.

Temperature fallen in many parts of our Islands, the north of France, Germany, the Baltic, and Prussia; risen a little on the northern shores of the Mediterranean. Highest 53° at Oran, 52° at Algiers and Malta, between 40° and 50° over Southwestern Europe, and on the southwestern, western, and northern coasts of the British Isles, lower elsewhere. Lowest (1) 6° at Haparanda, 13° at Uleaborg, 18° at Archangel, 26° at St. Petersburg, 27° at Moscow and Kiev; (2) 25° at Munich, 29° at Münster and Berlin, 30° at Paris and Briss; (3) 30° at Baronatou. Touching 50° at some of our western and northern stations later, and 50° to 54° in several parts of France.

Wind very light and variable over Ireland, England, and the Bay of Biscay; anticyclonic, N to NE² over France and Spain; cyclonic, W to SW⁴ in Scotland, SW to S in Norway. Cyclonic N⁴ wind prevalent over the Baltic and north Germany (strong in places) NW in Austria Hungary; very variable breezes elsewhere, both in force and direction—especially over the Mediterranean. No great change reported later.

Barometer highest 30.7 ins: and more to 30.5 ins: in a large anticyclone covering the British Islands, the Netherlands, France, and the Bay of Biscay, and ranging between 30.4 ins: and 30.1 ins: in a "Col" extending thence across Germany and southeastern Europe to Asia Minor. Lowest 29.9 ins: and less, in a depression over Central Prussia, 30.0 ins: and less, in another approaching Lapland from the Atlantic, and 30.2 ins: to 30.0 ins: in another of irregular form lying over the eastern parts of the Mediterranean. No important change reported later.

EXPLANATION OF COLUMNS GIVEN ON PAGE 1.

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

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

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

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

DAILY WEATHER REPORT.

for *Saturday, 7th February,* 1891.
 Issued by the Meteorological Office, 63, Victoria Street, London. *R. H. SCOTT, Secretary.*

R. H. SCOTT, Secretary.																	
STATIONS.	YESTERDAY EVENING.					8 A.M. TO DAY.										PAST 24 HOURS.	
	BAROM.	TEMP.	WIND.			BAROMETER.		SHADE TEMP.			WIND.				SHADE TEMP.		
	Reading at 32° F. and Sea Level.	Dry.	Direc.	Force. (0 to 12.)	Weather.	Reading at 32° F. and Sea Level.	Difference from 8 a.m. yesterday.	Dry.	Wet.	Difference from 8 a.m. yesterday.	Direc.	Force. (0 to 12.)	Weather.	Sea. (0 to 6.)	Max.	Min.	Amount of Rainfall.
SCANDINAVIA.																	
Haparanda ...	29.41	39	WNW	8	C	29.52	- .51	28	28	+ 9	SW	4	bc	*	34	18	
Hernösand ...	30.01	39	SSW	4	C	29.96	- .28	33	32	+ 10	W	0	b	*	39	19	
Stockholm ...	30.31	28	NW	4	C	30.25	- .10	29	28	+ 4	W	2	0	*	32	23	
Wisby ...	30.32	32	S	4	C	30.33	+ .02	32	31	+ 1	SW	4	0	*	34	28	
Bodö ...																	
Christiansund	30.08	46	WSW	7	bc	29.95	- .16	46	44	+ 2	WSW	9	C	6	46	44	
Skudesnaes ...	30.43	37	E	1	C	?	?	37	37	+ 3	ESE	1	f	3	37	34	0.04
Christiania Fjord (Færd)	30.33	36	S	2	C	30.25	- .11	32	31	+ 2	SSW	3	f	1	36	30	
Skagen (The Scaw)	30.37	35	SW	1	f	30.34	- .03	37	37	+ 5	W	3	0	3	39	32	
Fanö ...	30.52	31	SSW	2	C	30.50	+ .02	31	31	- 2	SW	4	0	*	36	30	
Sumburgh Head	30.25	47	W	4	C	30.14	- .10	45	44	0	WSW	3	0	4	47	37	0.04
Stornoway ...	30.53	47	W	4	C	30.16	- .20	47	46	0	SW	6	0	6	49	45	0.02
Wick ...	30.38	45	W	0	C	30.25	- .10	43	42	0	S	1	bc	1	49	40	
Nairn ...	30.39	45	W	1	C	30.23	- .17	45	42	0	SW	3	bc	1	52	42	
Aberdeen ...	30.43	40	ENE	1	C	30.33	- .13	31	30	- 8	WNW	1	bcm	1	52	30	
Leith ...	30.48	45	W	2	C	30.39	- .13	45	42	- 1	W	2	cm	*	51	43	
Shields ...	30.52	45	SW	2	C	30.46	- .09	38	37	- 5	SW	2	mm	2	51	35	
Spurn Head ...	30.56	45	SW	2	C	30.50	- .09	43	42	+ 2	WSW	1	om	2	47	40	0.01
York ...	30.56	48	W	1	C	30.50	- .10	44	43	+ 2	W	1	0	*	53	41	
Loughborough	30.60	46	WSW	1	C	30.54	- .08	42	42	- 1	W	1	om	*	49	42	
Ardrossan ...	30.51	46	SW	2	C	30.43	- .11	45	44	0	SSW	3	0	2	47	44	
Malin Head ...	30.48	46	SSW	4	op	30.38	- .14	44	42	- 2	S	4	0	3	46	44	
Mullaghmore ...	30.53	48	SW	4	C	30.40	- .19	46	44	- 1	SSW	4	0	3	50	45	0.01
Belmullet ...	30.53	48	WSW	2	C	30.37	- .21	48	46	0	WSW	4	0	*	50	46	
Donaghadee ...	30.55	50	WSW	2	bc	30.47	- .13	43	42	- 3	SW	2	0	0	51	42	
Liverpool (Bidston)	30.60	43	SSE	1	bc	30.53	- .12	44	42	+ 1	SW	1	0	2	48	42	0.02
Holyhead ...	30.60	45	SSW	2	og	30.52	- .12	44	43	- 2	SW	1	og	1	48	44	
Parsonstown ...	30.61	47	W	0	C	30.49	- .19	43	41	- 1	W	0	og	*	49	40	
Valencia ...	30.62	48	SSW	2	og	30.48	- .21	48	45	0	SSW	3	og	3	49	44	
Roche's Point...	30.65	48	W	2	C	30.53	- .18	47	45	+ 1	SW	2	og	3	50	45	
Pembroke (St. Ann's Hd.)	30.64	45	NW	2	C	30.55	- .14	43	42	- 2	NE	1	og	1	47	43	
Soilly ...	30.62	47	NNE	2	C	30.50	- .19	46	43	0	ENE	2	og	4	48	43	
Prawle Point ...	30.64	46	N	1	C	30.52	- .18	43	43	+ 3	NE	1	ogm	0	44	39	
Jersey (St. Aubin's)	30.62	45	WNW	3	om	30.54	- .14	43	39	0	E	3	om	3	46	41	
Hurst Castle ...	30.62	44	NE	1	om	30.55	- .11	40	40	+ 5	W	0	fd	0	45	35	
Dungeness ...	30.55	43	W	0	f	30.54	- .06	41	41	+ 4	W	0	f	0	45	36	0.01
London ...	30.62	44	W	1	om	30.56	- .08	41	41	+ 4	W	0	fg	*	47	36	0.01
Oxford ...	30.63	40	W	0	C	30.56	- .10	41	40	+ 2	W	0	og	*	46	38	
Cambridge ...	30.61	45	W	0	C	30.55	- .09	42	42	+ 3	WSW	1	fg	*	48	38	
Yarmouth ...	30.57	44	W	0	fd	30.53	- .05	41	40	+ 1	W	0	fg	2	45	38	0.02
Cuxhaven ...	30.53	37	WSW	1	f	30.56	+ .06	37	36	+ 2	SW	1	m	*	38	35	
Berlin ...	30.57	33	W	0	C	30.63	+ .10	33	32	+ 3	SW	2	S	*	34	30	
Wiesbaden ...	*	*	*	*	*	30.59	- .01	32	31	+ 2	N	2	0	*	36	28	
Munich ...	30.57	26	SE	2	C	30.54	- .05	12	11	- 13	SE	3	0	*	28	12	
The Helder ...	30.58	35	WNW	1	C	30.56	0.00	37	37	+ 2	SSW	1	f	1	39	35	0.04
Brussels (9 a.m.)	*	*	*	*	*	30.57	- .06	34	34	+ 1	ESE	1	0	*	37	33	0.04
Cape Gris Nez	30.59	38	E	1	f	30.53	- .08	39	39	+ 1	W	0	f	1	41	37	0.08
Paris ...	30.61	35	ESE	1	f	30.54	- .11	34	?	+ 1	NNE	1	0	*	38	33	
Brest ...	30.61	45	NE	2	C	30.51	- .21	42	41	+ 2	E	1	0	2	48	39	
Lorient ...	30.60	45	NNE	2	C	30.48	- .21	40	38	- 2	NNE	1	0	2	48	39	
Rochefort ...	30.56	40	WSW	3	m	30.46	- .18	35	34	+ 2	ENE	4	0	2	41	28	
Belfort ...	?	28	SSE	3	C	?	?	27	?	- 1	SSE	4	0	2	37	25	
Lyons ...	30.57	29	NW	1	C	30.50	- .13	28	27	+ 2	N	1	0	*	31	26	
Nice ...	30.37	41	S	2	C	30.39	+ .01	37	33	+ 3	NE	3	bc	3	48	34	
Perpignan ...	30.37	44	NW	3	C	30.51	+ .09	27	27	- 16	SW	1	bc	*	55	26	
Biarritz ...	30.57	39	NNE	3	C	30.41	- .22	35	33	- 3	ESE	3	0	2	43	32	
Corunna ...	*	*	*	*	*												
Lisbon ...	30.33	54	N	4	C	30.27	- .16	40	38	- 5	N	3	b	5	59	39	
PENINSULA.																	

WEATHER CHARTS

for 8 a.m. on Saturday, 7th February, 1891.

BAROMETER, WIND AND SEA.

EXPLANATION OF MAP

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

Changes since previous morning are stated in words.

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

→ forces above 10; → forces 8 to 10;

→ forces 5 to 7; → forces 1 to 4.

○ = dead calm.

SEA DISTURBANCE—Where considerable, is shown thus:

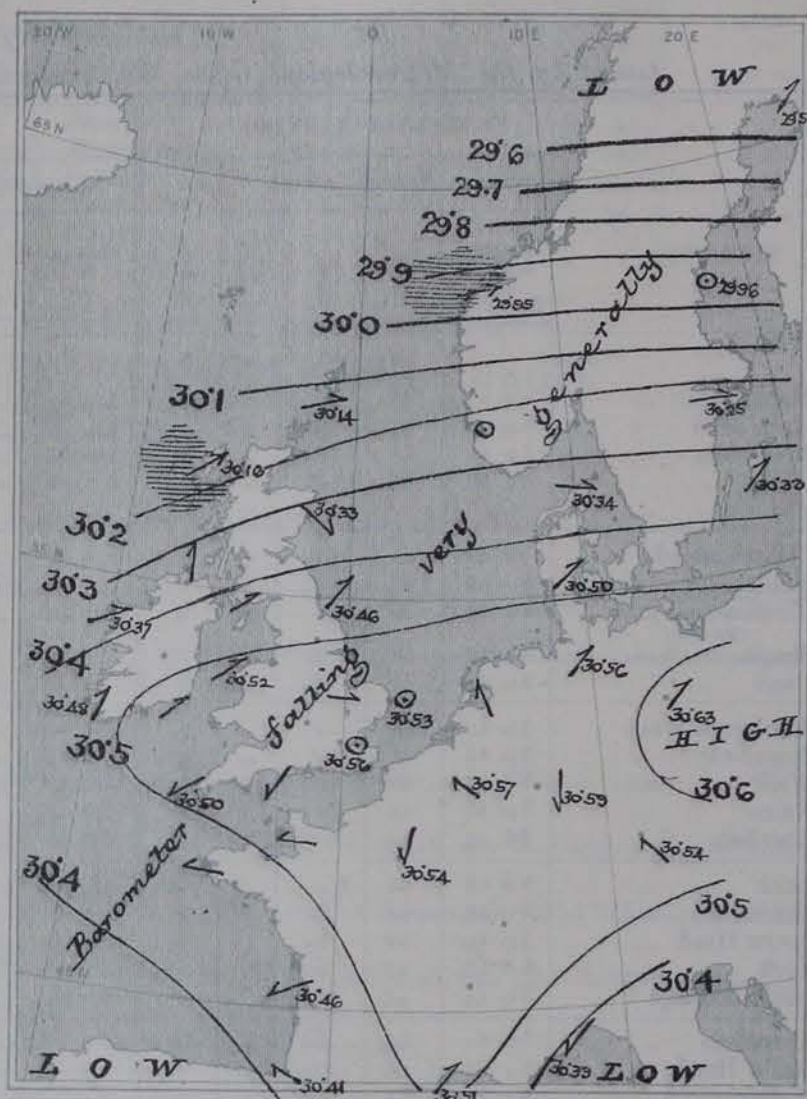
≡ = Rough. ≡ = High.

MEAN HEIGHT OF THE BAROMETER

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

During the 20 Years: 1871—1890.

STATIONS.	MEAN READINGS.
Sumburgh Head	29.775
Stornoway	29.773
Wick	29.804
Nairn	29.814
Aberdeen	29.848
Leith	29.870
Shields	29.906
Spurn Head	29.934
York	29.940
Loughborough	29.953
Ardrossan	29.873
Mullaghmore	29.842
Donaghadee	29.884
Holyhead	29.911
Liverpool	29.934
Parsonstown	29.946
Valencia	29.919
Roshe's Point	29.915
Pembroke	29.917
Scilly	29.959
Prawle Point	29.993
Jersey	30.007
Hurst Castle	29.986
Dover	29.985
LONDON	29.989
Oxford	29.985
Cambridge	29.979
Yarmouth	29.964



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

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

WEATHER—is shown by Letters of the Beaufort Scale.

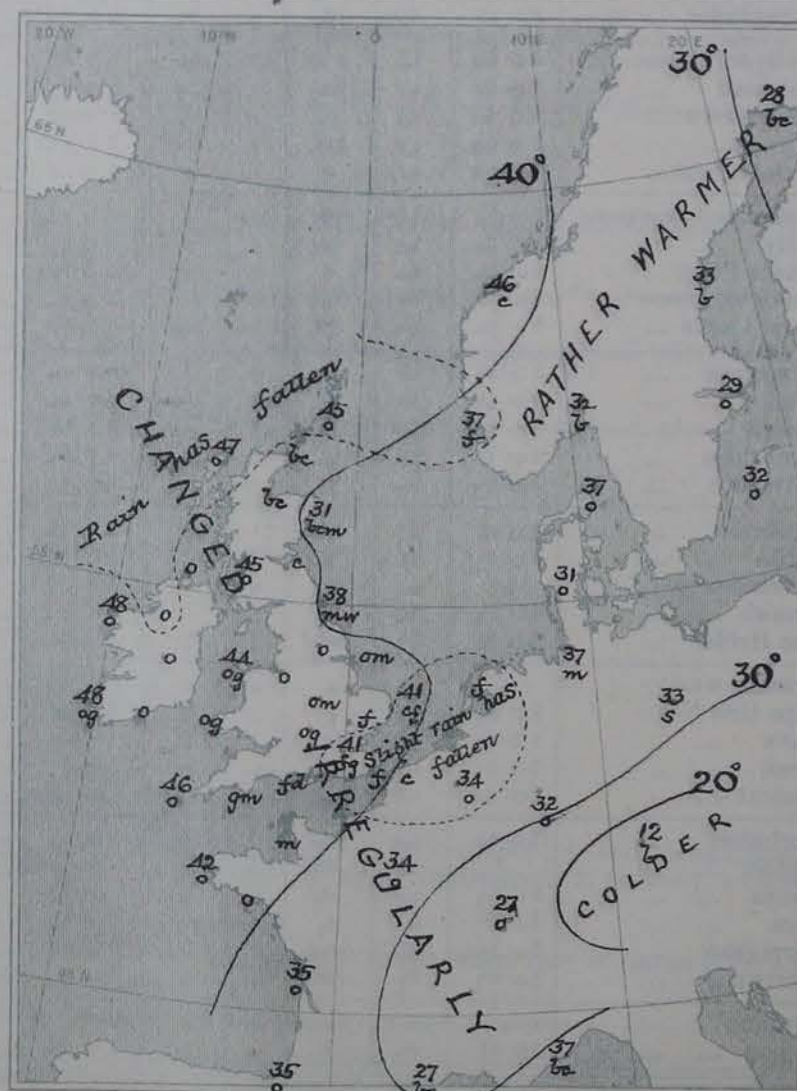
RAINFALL—A dotted line separates the districts in which rain has fallen from those where there has been none. Falls of .0.5 in. or more are quoted in figures.

MEANS OF TEMPERATURE IN SHADE, AND RAINFALL.

(For the month of February.)

STATIONS.	TEMPERATURE.				RAINFALL. (Inches.)
	Daily Max.	Daily Min.	At 8 a.m. Dry.	At 8 a.m. Wet.	
Sumburgh Head	42.4	34.5	38.5	37.4	3.19
Stornoway	43.5	34.6	39.1	38.1	3.86
Wick	43.1	33.2	38.1	36.7	2.04
Nairn	43.4	34.4	37.1	35.4	1.48
Aberdeen	43.2	33.8	37.3	35.7	2.35
Leith	43.7	34.3	38.6	37.1	1.45
Shields	43.8	35.1	38.6	37.3	1.59
Spurn Head	42.8	35.5	38.4	37.6	1.36
York	44.6	33.9	37.5	36.4	1.79
Loughborough	45.2	33.9	37.5	36.1	1.78
Ardrossan	41.6	36.3	39.1	38.2	3.04
Mullaghmore	40.6	34.0	42.0	40.3	2.80
Donaghadee	45.5	36.9	40.3	39.3	2.42
Holyhead	45.5	38.7	41.5	40.1	2.60
Liverpool	44.5	36.2	38.9	37.3	1.69
Parsonstown	46.0	35.6	39.4	38.1	2.20
Valencia	40.7	40.7	44.6	42.9	4.95
Roshe's Point	48.4	39.6	43.1	41.6	4.43
Pembroke	45.3	39.4	42.1	40.9	2.82
Scilly	45.9	42.8	45.0	44.4	2.71
Prawle Point	46.8	33.1	41.5	40.5	2.02
Jersey	46.9	39.3	42.3	41.0	2.55
Hurst Castle	45.7	36.7	40.3	39.3	2.30
Dover	44.4	36.1	39.2	38.1	1.95
LONDON	45.8	35.1	38.6	37.4	1.73
Oxford	46.0	34.9	37.9	36.8	1.92
Cambridge	45.5	32.8	37.3	36.2	1.46
Yarmouth	42.6	34.5	38.2	37.3	1.82

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



GENERAL SITUATION AT 8 A.M.

PRESSURE

Highest, 30.5 in. and upwards, in an anticyclone lying over England, France, Germany, and the Netherlands.
Lowest, 29.6 in. and less, in the north of Scandinavia.

Gradients moderate over Scandinavia, but slight elsewhere.

Barometer falling generally - most in the extreme west and north of our Islands.

TEMPERATURE

Highest, 48° at Belmullet and Valencia Island, 47° at Hornsey and Rochester, and 46° at Christiansund, Mullaghmore and Killy.

Lowest, 12° at Munnich, 2° at Belfast and Lerpinnar, 28° at Naparanda, and 23° at Stockholm and Lyons.

The daily maxima yesterday were a little above 50° at some of our northern stations.

WIND

SW over the greater part of our Islands, as well as in Scandinavia, Denmark, and North Germany; light or moderate in force generally, but strong to a gale at Christiansund.

Calm in the southeast of England; light from the E. over the southwest of England and the west of France, NE in the south of France.

WEATHER

Dull generally, with fog over Holland, the south of Norway and the east and southeast of England, and snow at Berlin.

Fine in the east of Scotland and the south of France, as well as in the north of Scotland.

Slight rain fell yesterday in isolated parts of the United Kingdom.

SEA

Slight or smooth generally, but rough at Christiansund and Stornoway.

PROBABLE CHANGES IN SYSTEM NOW PREVALENT

There are at present no indications of any very decided change in the weather, but conditions are becoming favourable for the passage of depressions along our extreme northwestern and northern coasts.

FORECASTS

For the 24 hours ending at NOON on 8TH FEB^R 1891.

DISTRICTS.

FORECASTS.

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

SW² winds, fresh or strong; drizzle, some rain.

SW² winds, light; fair generally

Calms and light variable airs; drizzle, gloomy, foggy.

DISTRICTS.

FORECASTS.

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

SW² winds, light or moderate; drizzle, rain locally.

Light breezes, chiefly E²; drizzle, some mist or fog.

SW² winds, freshening; drizzle, some rain.

WARNINGS

NONE ISSUED.

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

YESTERDAY'S 2 P.M. REPORTS.

	BAR:	THER:		WIND					BAR:	THER:		WIND				
		D.	W.	D.	F.	WEA.	SEA.			D.	W.	D.	F.	WEA.	SEA.	
Skudesnaes ...	30.43	37	36	E	2	0	3	Holyhead ...	30.62	48	46	SW	3	0	2	
Sumburgh Head ...	30.25	46	45	W	3	0	4	Valencia ...	30.66	49	46	S	2	0	3	
Stornoway ...	30.36	49	47	W	3	7	4	Scilly ...	30.68	48	45	WNW	3	0	5	
Aberdeen ...	30.43	51	46	SSW	1	60	1	Jersey ...	30.64	46	43	WNW	3	0	3	
Shields ...	30.53	50	47	W	3	0	2	Dungeness ...	30.60	44	43	ZS	0	m	0	
Ardrossan ...	30.52	46	45	SW	2	0	1	London ...	30.62	47	45	WNW	1	of	*	
Mulin Head ...	30.52	46	46	WSW	3	0	2	Yarmouth ...	30.56	45	44	NW	1	f	2	
Mullaghmore ...	30.56	50	48	SW	4	0	3	Rocheport ...	30.62	38	37	NNE	3	m	*	
Belmullet ...	30.56	50	49	SW	2	0	*									

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

Weather in morning fine and bright over southwestern and southern Europe, as well as at most of the Swedish stations, dull elsewhere, with fog in many parts of England, and France, North Germany, the Sound, and the eastern parts of the North Sea, snow at times. Wet fog or haze ^{remaining} very prevalent over the districts named during the day; slight rain falling in the Netherlands.

Temperature falling a little in the south of France, and some parts of England, not changing much elsewhere. Morning readings exceeding 50° at Malta, Palermo, Algiers and Oran; exceeding 40° on the Mediterranean coasts of Europe generally and over the greater part of the British Islands and Norway; much lower elsewhere. Lowest 11° at Archangel, 19° at Haparanda and St. Petersburg, 20° at Nicolaïeff, 21° at Kharkov, and Moscow, and below 30° over Austria, Poland, south Germany, and the inland parts of the south of France, as well as at Palermo. Rising to a little above 50° in Scotland and some parts of Ireland later, to 55° at Liverpool and 59° at Lisbon.

Wind blowing a gale from WSW in the north of Norway, light from the NW over the British Islands and North Sea, NW over Germany and Austria, N to NE over the eastern parts of the Mediterranean, and blowing strongly in places; light and very variable elsewhere. Backing to SW and freshening a little on our northwestern coasts later.

Barometer highest 30.7 ins. to 30.4 ins. in a large anticyclone covering nearly the whole of western and central Europe; lowest, 29.7 ins. and less, over Denmark, 30.2 ins. to 29.9 ins. in a depression over the Mediterranean. Gradients moderate both in the extreme north and extreme south, slight 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 8th February. 1891.
Issued by the Meteorological Office, 63, Victoria Street, London. R. H. SCOTT, Secretary.

Published by the Hydrographic Office, 5, Victoria Street, London. R. H. SCOTT, Secretary.																		
STATIONS.		YESTERDAY EVENING.					8 A.M. TO DAY.										PAST 24 HOURS.	
		BAROM.	TEMP.	WIND.			BAROMETER.		SHADE TEMP.			WIND.			Sea. (0 to 3.)	SHADE TEMP.		
				Reading at 32° F. and Sea Level.	Dry.		Dirce.	Force. (0 to 12.)	Weather.	Reading at 32° F. and Sea Level.	Difference from 8 a.m. yesterday.	Dry.	Wet.			Difference from 8 a.m. yesterday.	Dirce.	Force. (0 to 12.)	Weather.	Max.	Min.	Amount of Rainfall.
SCANDINAVIA.	Haparanda ...	?	37	SW	1	bc	29.28	-24	38	36	+10	SW	4	bc	*	?	?	—
	Hernösand ...	29.93	36	SW	2	b	29.81	-15	38	34	+5	2	0	bc	*	46	30	—
	Stockholm ...	30.20	36	W	6	o	30.09	-16	40	37	+11	W	6	o	*	?	25	—
	Wisby ...	30.28	37	S	2	o	30.25	-08	36	35	+4	SW	6	o	*	37	30	—
	Bodö ...	29.37	36	SW	6	r	29.45		37	35		W	8	c	5	45	30	—
	Christiansund	29.81	48	W2W	2	bc	29.97	+02	41	37	-5	W2W	8	c	6	50	41	—
	Skudesnaes ...	30.25	37	SE	5	o	30.16	-9	41	40	+4	W2W	2	r	4	?	37	0.04
	Christiania Fjord (Færder)	30.19	38	SW	5	b	30.12	-13	39	38	+7	W2W	5	bc	4	?	?	—
	Skagen (The Scaw)	30.32	38	SW	3	o	30.25	-09	37	37	0	SW	3	m	3	41	37	—
	Fanö ...	30.47	38	S	4	f	30.39	-11	38	33	+2	W2W	2	o	*	34	31	—
BRITISH ISLANDS.	Sumburgh Head	29.98	45	W2W	4	o	30.17	+03	41	38	-4	W	2	bc	4	47	37	0.09
	Stornoway ...	30.03	47	SW	7	r	30.30	+14	38	37	-9	W	4	c	4	47	34	0.10
	Wick ...	30.09	46	S	1	o	30.32	+07	36	34	-7	SW	2	bc	1	48	33	0.15
	Nairn ...	30.13	46	SW	4	c	30.34	+11	35	33	-10	SW	1	b	1	48	33	0.02
	Aberdeen ...	30.20	40	E	1	c	30.39	+06	36	34	+5	W	1	b	1	46	31	0.02
	Leith ...	30.27	44	W	2	o	30.40	+01	39	38	-6	W	1	bc	*	46	38	—
	Shields ...	30.37	45	SW	2	o	30.40	-06	42	41	+4	NW	3	c	2	46	36	—
	Spurn Head ...	30.43	43	SW	1	f	30.40	-10	41	39	-2	W	2	cm	2	45	39	—
	York ...	30.42	44	W	1	o	30.42	-08	41	40	-3	W	1	o	*	46	40	—
	Loughborough	30.46	45	W2W	1	o	30.44	-10	40	40	-2	2	0	omw	*	47	40	—
GERMANY & HOLLAND.	Ardrossan ...	30.32	45	W	2	o	30.44	+01	37	35	-8	2	0	b-f	0	45	35	—
	Malin Head ...	30.24	45	S	5	og	30.44	+06	42	38	-2	NW	1	bc	2	47	41	0.02
	Mullaghmore ...	30.31	46	SW	5	c	30.48	+08	41	38	-5	N	2	b	3	48	40	0.03
	Belmullet ...	30.31	48	SW	3	o	?		36	35	-12	2	0	b	*	48	36	0.07
	Donaghadee ...	30.38	44	SW	3	o	30.45	-02	43	41	0	NNE	4	c	2	46	43	—
	Liverpool (Bidston)	30.44	43	W	1	o	30.45	-08	41	39	-3	W2W	1	c	2	46	40	—
	Holyhead ...	30.44	44	SW	1	og	30.43	-09	43	43	-1	2	0	dm	0	45	43	0.02
	Parsonstown ...	30.41	44	2	0	o	30.47	-02	41	40	-2	2	0	o	*	46	40	0.09
	Valencia ...	30.42	47	SW	3	om	30.48	0.0	44	42	-4	NNE	2	og	3	49	42	0.21
	Roche's Point...	30.44	46	SW	3	o	30.45	-08	45	44	-2	N	2	o	3	47	44	—
FRANCE AND BELGIUM.	Pembroke (St. Ann's Hd.)	30.48	44	NW	1	o	30.45	-10	41	40	-2	NW	1	cyp	0	45	41	0.02
	Scilly ...	30.41	45	NNE	2	o	30.41	-09	45	42	-1	NNE	1	c	4	46	41	—
	Prawle Point ...	30.47	42	ENE	2	o	30.44	-08	41	41	-2	NW	2	ogm	1	43	40	—
	Jersey (St. Aubin's)	30.46	42	ESE	3	o	30.42	-12	42	40	-1	ENE	2	gm	2	43	39	—
	Hurst Castle ...	30.47	41	W	1	m	30.42	-13	40	40	0	2	0	f	0	44	40	0.01
	Dungeness ...	30.46	40	NE	2	c	30.41	-13	38	37	-3	NE	2	cf	0	44	36	—
	London ...	30.47	44	2	0	o	30.43	-13	39	38	-2	SE	1	og	*	48	39	—
	Oxford ...	30.46	42	2	0	o	30.44	-12	39	39	-2	2	0	ogf	*	44	39	—
	Cambridge ...	30.48	44	2	0	o	30.44	-11	39	39	-3	S	1	o	*	45	37	—
	Yarmouth ...	30.46	41	2	0	cf	30.42	-11	38	32	-8	SW	2	f	2	45	31	—
PENINSULA.	Cuxhaven ...	30.58	37	SW	1	m	30.48	-08	29	28	-1	2	0	f	*	37	28	—
	Berlin ...	30.61	38	2SE	2	b	30.51	-12	24	23	-9	SE	2	b	*	36	28	—
	Wiesbaden ...	*	*	*	*	*	30.45	-14	26	24	-6	NE	1	b	*	36	25	—
	Munich ...	30.47	18	SE	5	b	30.33	-21	9	8	-3	ENE	4	b	*	27	9	—
	The Helder ...	30.51	37	E	1	f	30.45	-11	35	34	-2	SE	1	f	1	43	35	—
	Brussels (9 a.m.)	*	*	*	*	*	30.42	-15	28	?	-6	NNE	1	f	*	41	26	—
	Cape Gris Nez	30.43	39	E	2	f	30.41	-12	35	32	-4	SE	1	m	1	41	32	—
	Paris ...	30.46	37	ENE	2	o	30.38	-16	27	27	-7	NNE	1	b	*	40	26	—
	Brest ...	30.49	42	E	1	o	30.43	-08	37	38	-3	E	1	o	3	46	36	—
	Lorient ...	30.41	40	ENE	2	m	30.38	-10	40	38	0	ENE	2	m	3	45	37	—
FRANCE AND BELGIUM.	Rochefort ...	30.34	40	NE	3	b	30.29	-17	31	30	-4	NE	4	b	2	45	27	—
	Belfort ...	?	27	N	3	bc	?		24	?	-3	N	4	b	*	34	23	—
	Lyons ...	30.44	28	N	1	b	30.31	-19	25	25	-3	N	1	f	*	33	23	—
	Nice ...	30.33	39	SE	2	m	30.25	-14	36	32	-1	NW	2	c	3	46	34	—
	Perpignan ...	30.34	36	2	0	b	30.23	-28	28	27	+1	W2W	1	b	*	47	27	—
	Biarritz ...	30.30	40	NE	3	o	30.28	-13	39	36	+4	NNE	2	o	2	45	?	—
PENINSULA.	Corunna ...	*	*	*	*	*	30.29	-08	38	37	+6	NE	1	b	5	52	34	—
	Lisbon ...	30.21	50	W	2	b	30.19	-08	46	45	+6	NE	3	r	?	57	?	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 8th February, 1891.

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—

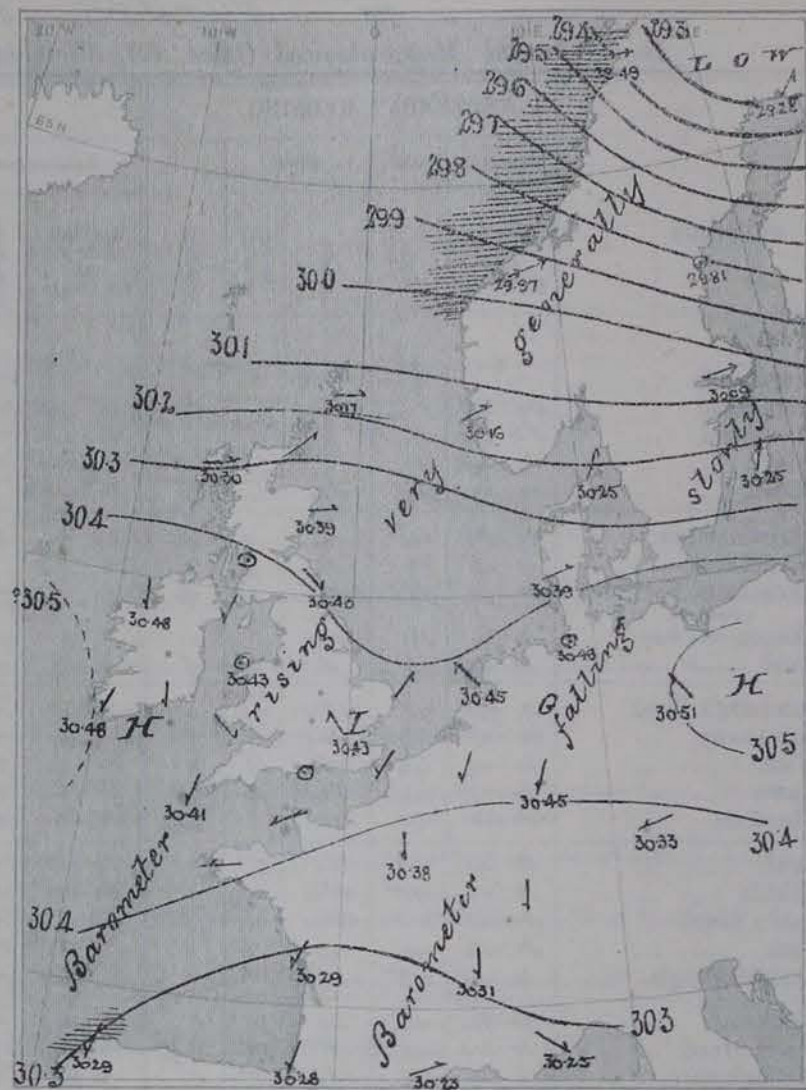
— = Rough. — = High.

MEAN HEIGHT OF THE BAROMETER

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

During the 26 Years: 1871—1890.

STATIONS.	MEAN READINGS.
Sumburgh Head	29.775
Stornoway	29.773
Wick	29.804
Nairn	29.814
Aberdeen	29.848
Leith	29.870
Shields	29.906
Spurn Head	29.934
York	29.940
Loughborough	29.963
Ardrossan	29.873
Mullaghmore	29.842
Donaghadee	29.881
Holyhead	29.914
Liverpool	29.934
Parsonstown	29.946
Valencia	29.919
Roche's Point	29.916
Pembroke	29.947
Sally	29.959
Prawle Point	29.993
Jersey	30.007
Hurst Castle	29.934
Dover	29.985
LONDON	29.989
Oxford	29.985
Cambridge	29.979
Yarmouth	29.964



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

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

WEATHER—is shown by Letters of the Beaufort Scale.

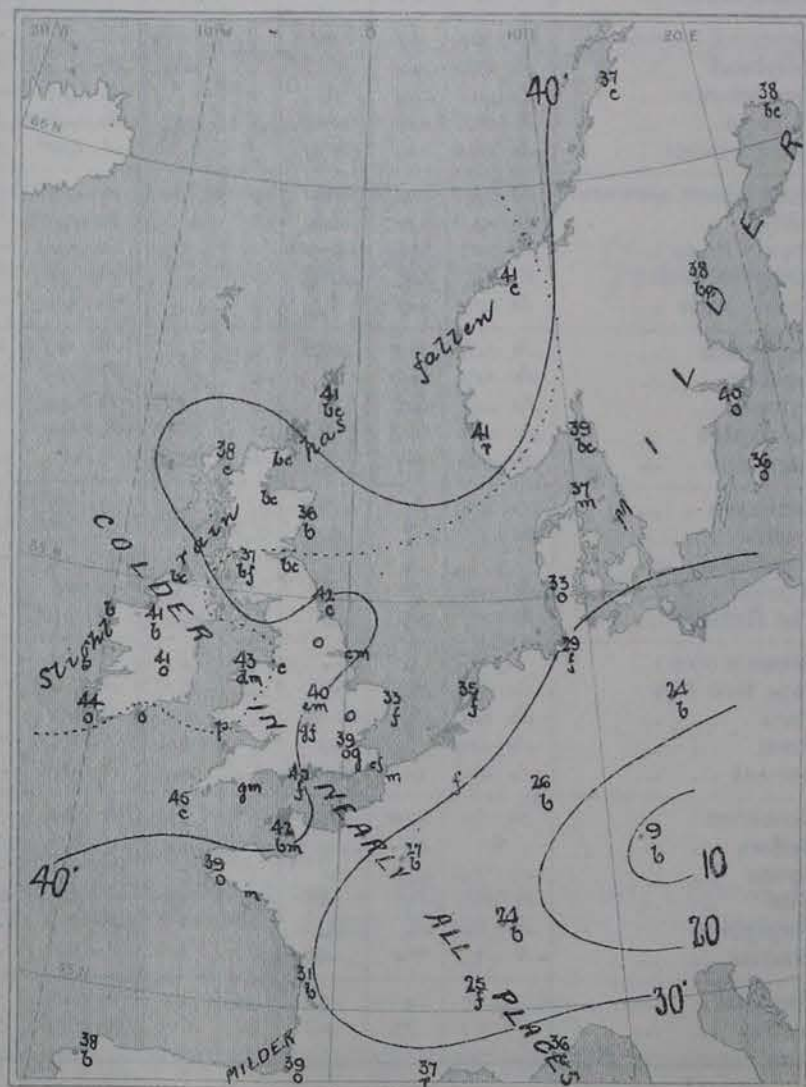
RAINFALL—A dotted line separates the districts in which rain has fallen from those where there has been none. Falls of 0.5 in. or more are quoted in figures.

MEANS OF TEMPERATURE IN SHADE, AND RAINFALL.

(For the month of February.)

STATIONS.	TEMPERATURE.				RAINFALL. (Inches.)
	Daily	Daily	at 8 a.m.		
	Max.	Min.	Dry.	Wet.	
Sunburgh Head.....	42.4	34.5	38.5	37.4	3.19
Stornoway	43.5	34.6	39.1	38.1	3.80
Wick	43.1	33.2	38.1	36.7	2.04
Nairn	43.4	31.4	37.1	35.4	1.48
Aberdeen	43.2	33.8	37.2	35.7	2.35
Leith	43.7	34.3	38.6	37.1	1.45
Shields	43.8	35.1	38.6	37.3	1.50
Spurn Head.....	42.8	35.5	38.4	37.5	1.36
York	44.6	33.9	37.5	36.4	1.79
Loughborough	45.3	33.0	37.5	36.4	1.78
Ardrossan	44.6	36.3	39.4	38.2	3.04
Mullaghmore	46.6	38.6	42.0	40.3	2.80
Donaghadee.....	45.8	36.9	40.3	39.3	2.42
Holyhead	45.5	38.7	41.5	40.1	2.60
Liverpool	44.5	36.2	38.9	37.3	1.69
Parsonstown	46.9	35.6	39.4	38.1	2.20
Valencia	49.7	40.7	44.0	42.9	4.95
Roche's Point.....	48.4	39.0	43.1	41.6	4.43
Pembroke.....	45.5	39.4	42.1	40.9	2.82
Sally	45.9	43.8	43.0	44.4	2.71
Prawle Point	46.8	33.1	41.6	40.5	2.02
Jersey	46.9	39.3	42.3	41.0	2.55
Hurst Castle	45.7	36.7	40.3	39.3	2.30
Dover	44.4	36.1	39.2	38.1	1.95
LONDON	45.8	35.1	38.6	37.4	1.73
Oxford	45.0	34.9	37.9	36.3	1.92
Cambridge	45.5	32.8	37.3	36.2	1.45
Yarmouth	42.6	34.0	38.2	37.3	1.81

NOTE—The Temperature means are for the 26 years 1871-90, the Rainfall means are mainly those for the 25 years 1865-90.



GENERAL SITUATION AT 8 A.M.

PRESSURE

Highest 30.51 ins. at Berlin; 30.44 ins. and upwards over Ireland, England, the Netherlands and the north of France.
 Lowest 29.3 ins. and less in a depression lying over the north of Scandinavia.
 Gradients rather steep over the north of Scandinavia, but slight elsewhere.
 Barometer rising in the west and north of our islands, but falling elsewhere.

TEMPERATURE

Highest 46° at Lisbon, 45° at Roche's Point and Scilly, 44° at Valerian Island & 43° at Donaghadee, and Holyhead.
 Lowest 9° at Munich, 24° at Berlin and Belfort, 25° at Lyons, 26° at Wiesbaden, and 27° at Paris.
 The maxima registered over our islands yesterday ranged between 43° and 49°.

WIND

W²⁴ or SW²⁴ over Scotland, Denmark and Scandinavia, light or moderate in force generally but strong to a gale in the west of Norway.
 Light from the Nnd in the west and south of our islands, from the NEnd in France.

WEATHER

Fine in Scotland and the north of Ireland and also in Sweden, Germany & central France.
 Dull elsewhere with fog over Holland and the southeast of England, falling showers at Pembroke and rain at Skudesnaes.
 Slight rain fell yesterday at several of our western and northern stations.

SEA

Rough off the west of Norway and rather rough at Looe, but slight or smooth elsewhere.

PROBABLE CHANGES IN SYSTEM NOW PREVALENT

FORECASTS

For the 24 hours ending at NOON on 9TH FEB. 1891.

DISTRICTS.

FORECASTS.

DISTRICTS.

FORECASTS.

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

NONE ISSUED

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

NONE

ISSUED

WARNINGS

NONE ISSUED

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		BAR:	D.	W.	D.	F.	WEA.	SEA		BAR:	D.	W.	D.	F.	WEA.	SEA
Skudesnaes ...	30.31	39	39	SE	2	f	3	Holyhead ...	30.44	44	44	SE	2	mg	1																
Sumburgh Head	30.04	45	44	WSE	3	c	4	Valencia ...	30.43	49	45	E	4	ov	4																
Stornoway ...	30.06	47	46	SE	7	o	6	Scilly ...	30.45	46	43	E	2	o	4																
Aberdeen ...	30.22	45	42	SEW	1	cm	1	Jersey ...	30.52	42	38	E	3	ogm	3																
Shields ...	30.42	45	42	SE	1	m	2	Dungeness ...	30.49	42	42	E	2	o	5																
Ardrossan ...	30.35	45	44	W	4	o	3	London ...	30.50	48	46	E	2	of	8																
Malin Head ...	30.28	46	45	SEW	4	og	3	Yarmouth ...	30.44	45	44	W	2	bcf	2																
Mullaghmore ...	30.34	47	45	SEW	5	og	4	Rochefort ...	30.43	41	37	ENE	3	G	2																
Belmullet ...	30.33	48	47	WSE	4	bc	*																								

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

Weather in morning fine and bright over the most northern parts both of Europe and the British Islands, as well as over south Germany and some parts of the south of France, and in the south of Spain, cloudy or overcast elsewhere, very gloomy over England, and foggy on our eastern coasts and in Holland. Snow falling at Berlin. Rain in small quantities later over the western and northern parts of the United-Kingdom, and at Palermo, larger quantities in parts of Algeria, much fog and gloom over east of England, especially in London, where the day time was completely dark.

Temperature changing little and irregularly; falling decidedly over south Germany. Morning reading exceeding 50° at Malta only; exceeding 40° at most of the other Mediterranean stations (except in the south of France and north of Italy) as well as in the British Islands and west of Norway; much lower elsewhere. Lowest 0° at Hermanstadt, 10° at Warsaw, 12° at Munich, 21° at Cracow, 23° at Lemberg, and below the freezing point all over Russia, Austria, southern and eastern Germany, and the inland departments of the south of France. No important change elsewhere beyond ordinary diurnal range.

Wind SW² to W² over northern and northwestern Europe, light to strong in force; N² to NE² over the Mediterranean and Adriatic, moderate in force. Very light and variable elsewhere, calm in many parts of England. SW² wind increasing to a gale in the Hebrides and west of Norway later.

Barometer highest 30.6 ins. and more over eastern Germany, Poland, and western Russia, and ranging between 30.6 ins. and 30.4 ins. in a very large system covering the whole of western, central and eastern Europe. Lowest about 29.3 ins. over Lapland and the north of Russia, and below 30.0 ins. over, and to the southward of Malta. Falling slightly in our Islands and France during day, but relative distribution changing little.

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 9th February.* 1891.
 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.				BAROMETER.		SHADE TEMP.			WIND.					SHADE TEMP.		
Reading at 32° F. and Sea Level.	Dry.	Direc.	Force. (0 to 12.)	Weather.	Reading at 32° F. and Sea Level.	Difference from 8 a.m. yesterday.	Dry.	Wet.	Difference from 8 a.m. yesterday.	Direc.	Force. (0 to 12.)	Weather.	Sea. (0 to 12.)	Max.	Min.	Amount of Rainfall.			
SCANDINAVIA.																			
Haparanda ...	29.59	34	W	6	f	29.38	+10	35	33	-2	SW	4	c	*	39	27	—		
Hernösand ...	30.04	34	2	0	f	29.95	+14	32	?	-6	SW	2	bc	*	45	24	—		
Stockholm ...	30.22	33	2	0	f	30.25	+16	32	31	-1	WSW	2	c	*	41	32	—		
Wisby ...	30.26	36	SW	4	o	30.29	+04	36	35	0	W	2	o	*	37	34	—		
Bodö ...																			
Christiansund	29.99	41	WSW	9	bc	29.83	-14	42	41	+1	WSW	5	f	6	?	39	0.32		
Skudesnaes ...	30.36	34	2	0	f	30.31	+15	39	37	-2	2	2	f	3	41	32	—		
Christiania Fjord (Færder)	30.25	39	2	0	f	30.28	+16	36	34	-2	WSW	3	f	2	39	36	—		
Skagen (The Seaw)	30.26	36	2	0	f	30.36	+11	32	32	-5	2	0	f	0	39	30	—		
Fanö ...	30.41	33	SW	1	f	30.42	+03	29	29	-4	2	0	f	*	34	24	—		
BRITISH ISLANDS.																			
Sumburgh Head	30.20	41	W	3	f	30.05	-12	44	41	+3	WSW	4	o	4	44	39	0.02		
Stornoway ...	30.28	42	W	5	bc	30.09	-21	44	43	+6	SW	7	o	6	45	36	0.10		
Wick ...	30.33	39	NE	2	f	30.16	-16	39	38	+1	2	4	f	2	45	32	—		
Nairn ...	30.36	40	W	3	bc	30.20	-14	40	39	+1	WSW	3	f	1	45	33	—		
Aberdeen ...	30.44	38	SW	1	bc	30.29	-15	32	31	-4	SW	2	bc	1	46	29	—		
Leith ...	30.48	43	W	1	f	30.39	-01	30	30	-9	SW	1	m	*	43	27	—		
Shields ...	30.48	42	NE	1	c	30.42	+02	31	30	-11	SW	2	c	2	45	24	—		
Spurn Head ...	30.42	41	NW	2	o	30.42	+02	40	39	-1	NE	2	a	2	42	30	0.03		
York ...	30.45	44	N	1	o	30.44	+02	35	35	-6	E	1	c	*	47	33	—		
Loughborough	30.44	44	WNW	1	o	30.43	-01	41	41	+1	ENE	2	ogm	*	47	40	0.04		
Ardrossan ...	30.47	42	2	0	f	30.38	-06	36	35	-1	SE	1	bc	1	47	31	—		
Malin Head ...	30.48	41	SW	2	f	30.36	-08	37	34	-5	2	3	f	4	47	35	—		
Mullaghmore ...	30.51	40	SW	1	c	30.40	-08	34	32	-7	SW	1	f	4	48	32	—		
Belmullet ...	30.51	43	SW	1	f	30.39	-08	35	34	-1	SE	2	f	*	48	34	—		
Donaghadee ...	30.51	39	NE	2	f	30.44	-01	26	26	-17	W	2	f	0	47	22	—		
Liverpool (Bidston)	30.46	40	NW	1	o	30.44	-01	35	35	-6	E	1	c	2	45	35	0.03		
Holyhead ...	30.46	43	NNE	2	bc	30.42	-01	34	34	-9	2	0	bc	0	45	34	0.01		
Parsonstown ...	30.51	42	2	0	a	30.44	-03	25	24	-16	2	0	bc	*	47	24	—		
Valencia ...	30.49	46	NNE	3	om	30.40	-08	41	40	-9	SE	2	o	2	40	36	—		
Roche's Point...	30.46	47	N	1	o	30.42	-03	39	37	-6	NNE	2	c	3	48	36	0.25		
Pembroke (St. Ann's Hd.)	30.45	44	NNE	2	f	30.40	-05	42	41	+1	E	2	ogm	2	46	41	0.02		
Scilly ...	30.40	44	NE	2	c	30.33	-08	45	42	0	NE	2	c	4	46	41	0.01		
Prawle Point ...	30.42	43	N	2	o	30.38	-06	38	37	-1	ENE	3	ogm	2	47	37	—		
Jersey (St. Aubin's)	30.48	43	NE	2	f	30.34	-08	38	36	-4	E	4	ogm	3	46	39	—		
Hurst Castle ...	30.41	41	2	0	f	30.39	-03	37	37	-1	NE	3	ogm	1	42	36	—		
Dungeness ...	30.38	38	NE	3	c	30.36	-05	36	35	-2	ENE	4	c	3	40	33	—		
London ...	30.42	39	ENE	1	ogm	30.42	-01	37	35	-2	ENE	1	ogf	*	43	36	—		
Oxford ...	30.44	41	E	1	o	30.42	-02	36	35	-1	NE	1	og	*	43	36	—		
Cambridge ...	30.44	42	2	0	o	30.42	-02	37	37	-2	2	0	o	*	44	35	—		
Yarmouth ...	30.39	39	2	0	f	30.41	-01	36	35	+3	2	0	f	2	39	31	—		
GERMANY & HOLLAND.																			
Cuxhaven ...	30.45	32	N	1	m	30.44	-04	32	31	+3	NE	1	f	*	34	?	—		
Berlin ...	30.45	31	2	3	f	30.50	-01	26	24	+2	SE	3	f	*	36	23	—		
Wiesbaden ...	*	*	*	*	*	30.39	-08	25	24	-1	E	3	bc	*	39	25	—		
Munich ...	30.23	16	E	2	f	30.32	-01	6	6	-3	SE	4	f	*	25	5	—		
The Helder ...	30.43	35	NE	1	f	30.43	-02	33	33	-2	NE	1	f	1	36	33	—		
FRANCE AND BELGIUM.																			
Brussels (9 a.m.)	30.36	35	ENE	5	o	30.36	-05	32	31	-1	ENE	3	m	3	39	30	—		
Cape Gris Nez	30.31	33	N	1	f	30.34	-04	25	25	-2	NNE	1	f	*	37	25	—		
Paris ...	30.34	43	NE	1	o	30.35	-01	37	37	-2	NE	1	bc	2	45	36	—		
Brest ...	30.33	43	NE	3	f	30.31	-07	38	33	-5	ENE	3	f	3	46	34	—		
Lorient ...																			
Rochefort ...	30.27	37	NNE	4	m	30.27	-02	30	29	-1	E	4	m	?	43	25	—		
Belfort ...	?	25	N	3	c	?	?	20	?	-4	N	2	bc	*	?	?	—		
Lyons ...	30.27	28	NNE	1	o	30.35	+04	23	22	-2	ENE	1	f	*	31	23	—		
Nice ...	30.21	35	E	6	f	30.21	-04	33	26	-3	NNE	5	bc	4	43	30	—		
Perpignan ...	30.19	37	NW	3	o	30.23	0.0	33	32	+5	NW	2	o	*	44	31	0.12		
Biarritz ...	30.26	40	NNE	3	o	30.18	-10	33	30	+6	E	3	o	2	43	30	—		
PENINSULA.																			
Corunna ...	*	*	*	*	*														
Lisbon ...	30.19	49	N	3	f	30.19	0.0	48	46	+2	NNW	4	f	5	52	45	0.43		

WEATHER CHARTS

for 8 a.m. on 9th February 1891.

BAROMETER, WIND AND SEA.

EXPLANATION OF MAP

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

Changes since previous morning are stated in words.

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

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

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

☉ = dead calm.

SEA DISTURBANCE—Where considerable, is shown thus:

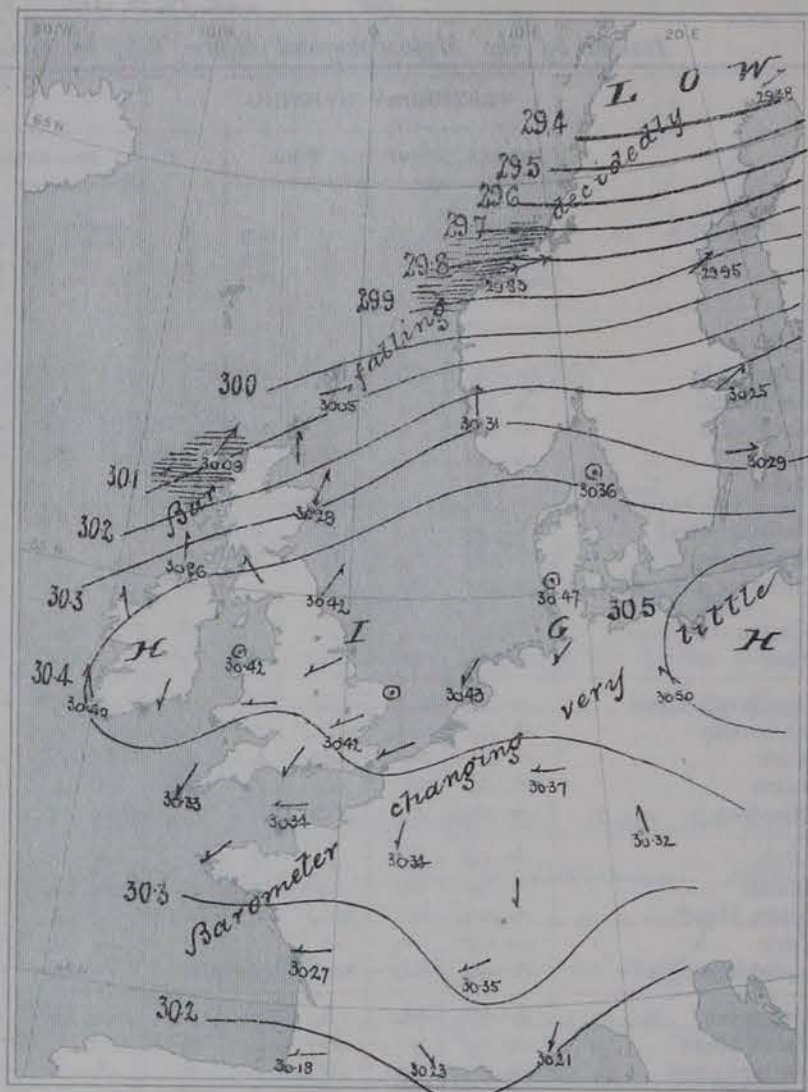
☼ = Rough, ☼ = High

MEAN HEIGHT OF THE BAROMETER

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

During the 20 Years: 1871—1890.

STATIONS.	MEAN READINGS.
Sumburgh Head	29.775
Stormway	29.773
Wick	29.804
Nairn	29.814
Aberdeen	29.848
Leith	29.870
Shields	29.908
Spurn Head	29.934
York	29.970
Loughborough	29.993
Ardrossan	29.873
Mullaghmore	29.842
Donaghadee	29.884
Holyhead	29.911
Liverpool	29.934
Parsonstown	29.946
Valencia	29.949
Roche's Point	29.913
Pembroke	29.917
Scilly	29.959
Prawle Point	29.993
Jersey	30.007
Hurst Castle	29.985
Dover	29.986
LONDON	29.989
Oxford	29.986
Cambridge	29.979
Yarmouth	29.964



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

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

WEATHER—is shown by Letters of the Beaufort Scale.

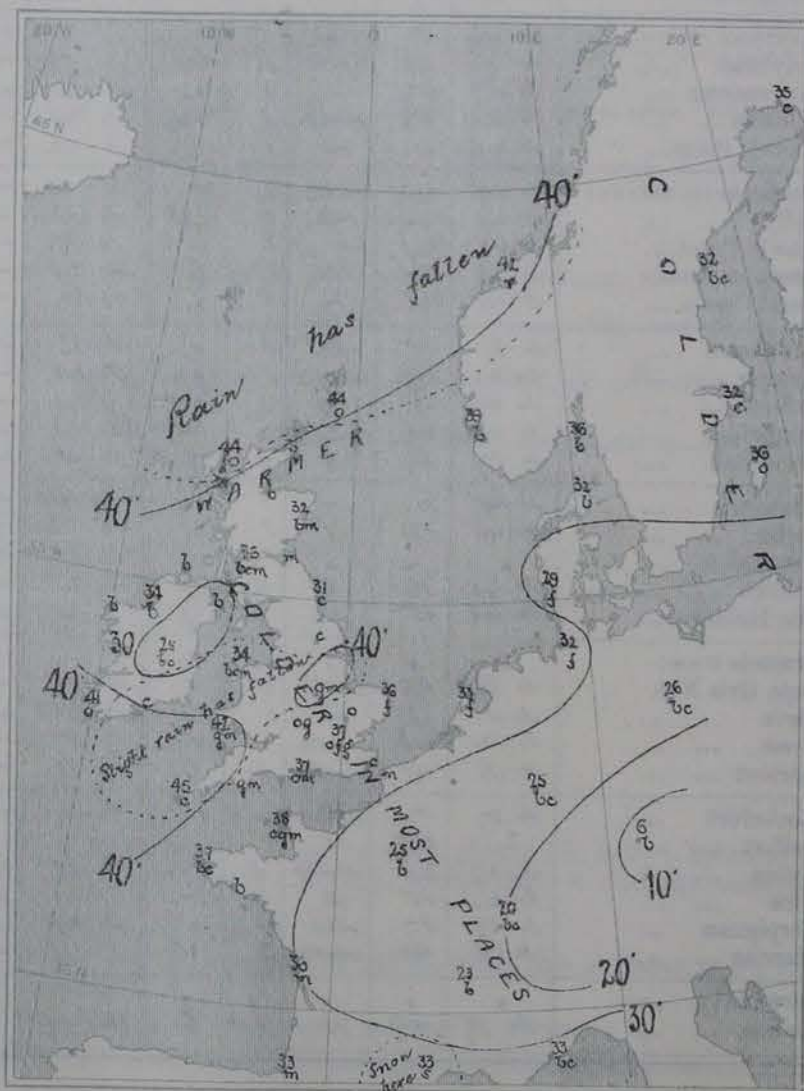
RAINFALL—A dotted line separates the districts in which rain has fallen from those where there has been none. Falls of 0.5 in. or more are noted in figures.

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	42.4	34.5	38.5	37.7	3.19
Stormway	43.5	31.6	39.1	38.1	3.86
Wick	43.1	33.2	38.1	36.7	2.04
Nairn	43.4	31.4	37.1	35.1	1.48
Aberdeen	43.2	33.8	37.3	35.7	2.35
Leith	43.7	31.3	38.6	37.1	1.45
Shields	43.8	35.1	38.0	37.2	1.50
Spurn Head	42.8	35.5	38.4	37.0	1.36
York	44.0	33.9	37.5	36.4	1.70
Loughborough	45.3	33.9	37.5	36.4	1.78
Ardrossan	44.6	36.3	39.4	38.2	3.04
Mullaghmore	46.6	38.0	42.0	40.3	2.50
Donaghadee	45.5	36.9	40.3	39.3	2.42
Holyhead	45.5	38.7	41.5	40.1	2.60
Liverpool	44.5	36.2	38.9	37.3	1.60
Parsonstown	46.9	36.6	39.4	38.1	2.20
Valencia	40.7	40.7	41.0	42.9	4.95
Roche's Point	48.4	30.6	43.1	41.0	4.43
Pembroke	45.5	39.4	42.1	40.9	2.82
Scilly	43.9	42.8	45.0	44.4	2.71
Prawle Point	46.8	33.1	41.5	40.5	2.02
Jersey	46.9	39.3	42.3	41.0	2.55
Hurst Castle	45.7	36.7	40.3	39.3	2.30
Dover	44.4	36.1	39.2	38.1	1.95
LONDON	45.8	35.1	38.2	37.4	1.73
Oxford	45.0	34.9	37.9	36.8	1.92
Cambridge	45.5	32.8	37.3	36.2	1.46
Yarmouth	42.6	34.5	38.2	37.8	1.82

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



GENERAL SITUATION AT 8 A.M.

PRESSURE

Highest, 30.50 in. at Berlin; 30.4 in. and upwards in an anticyclonic band extending from Arctic Europe to England and Ireland.
 Lowest, 29.4 in. and less, in a depression lying over the north of Scandinavia.
 Gradients steep over Scandinavia, and moderate over the north of our Islands, but slight elsewhere.
 Barometer falling generally, — most in the extreme north.

TEMPERATURE

Highest, 48° at Lisbon, 45° at Seville, 44° at Seville, H. and Stornoway, and 42° at Christiansund.
 Lowest, 6° at Munich, 10° at Belfast, 23° at Lyons, 25° at Paris, and 26° at Donaghadee and Berlin.
 Frost occurred last night in many parts of the United Kingdom; at Donaghadee the thermometer in the screen fell to 22°.

WIND

SW over Scandinavia and the northern part of the United Kingdom; light or moderate in force generally, but strong to a gale at Christiansund and Stornoway.
 Light from the SE in Germany and from the E or NE over France and the south of our Islands.

WEATHER

Fine in many parts of Western Europe, but dull and misty at most of the English stations, and rainy at Christiansund.
 Snow is reported at Leipzig.
 A little rain fell yesterday in parts of the United Kingdom.

SEA

Moderate to smooth generally, but rough at Christiansund and Stornoway.

PROBABLE CHANGES IN SYSTEM NOW PREVALENT

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

FORECASTS

For the 24 hours ending at NOON on 10th FEB^{ry} 1891.

DISTRICTS.

FORECASTS.

DISTRICTS.

FORECASTS.

0 SCOTLAND
NORTH

SW^{ly} and W^{ly} winds, strong; dull, some rain

1 SCOTLAND
EAST

SW^{ly} winds, light; fair generally.

2 ENGLAND
N.E.

3 ENGLAND
EAST

NE^{ly} to Variable breezes; cloudy, some rain.

4 MIDLAND
COUNTIES

5 ENGLAND
SOUTH

6 SCOTLAND
WEST

7 ENGLAND
N.W.

8 ENGLAND
S.W.

9 IRELAND
NORTH

10 IRELAND
SOUTH

Variable breezes, finally SW^{ly}; fair generally.

Same as No 3 to 5.

S^{ly} to SW^{ly} winds, light or 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 ...	30.30	40	40	NW	2	C	2	Holyhead ...	30.46	44	43	N	2	Cg	1
Sumburgh Head								Valencia ...							
Stornoway ...	30.31	45	45	W	2	C	4	Scilly ...							
Aberdeen ...								Jersey ...	30.40	46	43	NNE	2	Cg	2
Shields ...								Dungeness ...	30.39	38	37	NE	2	C	1
Ardrossan ...								London ...							*
Mulin Head ...	30.40	45	40	SW	2	C	2	Yarmouth ...							
Mullaghmore								Rochefort ...	30.23	40	38	NE	4	C	2
Belmullet ...	30.53	40	44	SW	2	C	*								

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

Weather in morning fine and bright over the greater part of southeastern, central and western Europe, as well as in many parts of Ireland, Scotland and Sweden, dull elsewhere, with fog in the east of England, and also at Zembary and Khar'kov; rain at Toulon and Lisbon, snow at Turin and Pesaro, slight rain in Ireland and Scotland later. Weather dull and gloomy in London.

Temperature lower generally than of late except in the northeast of Scotland and over the Balkan-Peninsula. Highest readings below 50° everywhere, morning values varying from 42° to 39° at the Mediterranean stations and from 40° to 45° over the western and southwestern parts of the British Islands, 41° at Sumburgh Head and Christiansund, much lower elsewhere. Lowest -1° at Kiev, +9° at Hermanstadt, Munich and Warsaw, 13° at Breslau, 14° at Lemberg, 15° at Anda Post and Vienna; 28° at Perpignan, 32° at Leghorn and Florence, 36° at Nice. Remaining below 50° over the British Islands all day, below 40° over Germany and central France, not exceeding 25° at Munich.

Wind W² to SW² strong to a gale over northern Europe, W² light in Scotland, N² light in Ireland, NE² moderate to fresh on the Mediterranean coast of Europe, very variable elsewhere. A moderate to strong S² breeze reported at the Algerian Stations generally.

Barometer highest 30.7 ins. and more to 30.5 ins. over the southern half of Russia, Austria, Poland and eastern Germany and apparently exceeding 30.5 ins. off the west of Ireland; exceeding 30.4 ins. over the whole of Ireland, England and the Netherlands. Lowest 29.3 ins. and less in a depression over Lapland, 30.0 ins. and less in another near Malta. Gradients steep over the northern countries only. New anticyclone advancing over Ireland from the westward later.

SUMMARY OF CHANGES IN THE WEATHER OVER THE BRITISH ISLANDS AND THEIR NEIGHBOURHOOD FROM THE 1ST TO 7TH FEB. 1891.

The weather of the past week was for the most part mild and damp, but very little rain fell excepting in the extreme north of our Islands, where some large amounts were measured on the morning of the 3rd.

At the commencement of the period two depressions were passing away from our neighbourhood - one a primary system towards Norway, the other a secondary disturbance across the east of England to the North Sea. Light W² or NW² winds therefore prevailed generally, with fine weather in most places, but with local showers.

On the 2nd however, a new depression of considerable size skirted our extreme northern coasts and produced freshening SW² winds in the western and northern districts, with heavy rain in the north of Scotland.

As this passed away across the north of Scandinavia a large high pressure system which had previously existed to the south of our Islands spread northwards, and from the 4th to the 6th anticyclonic conditions were prevalent over nearly the entire Kingdom. The wind was, however, chiefly W², and although fog or mist were reported in many districts, and ground frosts occurred at some of the inland stations, the weather was for the most part fair and mild.

At the close of the week the anticyclone was moving eastwards, and further depressions were beginning to approach our northern coasts. The weather was therefore becoming unsettled in the extreme north and northwest, but over England it remained very quiet, with thick local fogs. On the 7th a dense high fog which prevailed in London occasioned several hours of intense darkness.

Temperature has been above the average for the time of year, the daily maxima having been occasionally above 50° in nearly all 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 TUESDAY 10TH FEBRUARY. 1891.

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.	
				Force. (0 to 12.)	Dir.		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.		
		Reading at 32° F. and Sea Level.	Dry.	Dir.	Force. (0 to 12.)	Weather.	Reading at 32° F. and Sea Level.	Difference from 8 a.m. yesterday.	Dry.	Wet.	Difference from 8 a.m. yesterday.	Dir.	Force. (0 to 12.)	Weather.	Sea. (0 to 9.)	Max.	Min.	Amount of Rainfall.	
SCANDINAVIA.	Haparanda ...	29.16	35	SW	8	0	29.16	-22	23	22	-1	WNW	6	C	•	39	28	—	
	Hernösand ...	29.63	37	S	4	0	29.57	-26	26	22	+4	WNW	2	C	•	41	27	—	
	Stockholm ...	30.13	32	W	2	0	29.97	-28	22	29	0	WNW	4	C	•	39	30	—	
	Widby ...	30.26	33	S	4	0	30.16	-13	22	31	-4	SW	6	C	•	37	32	—	
	Bodö ...	28.73	42	SW	9	7	28.90	•	30	30	•	W	4	C	•	37	25	—	
	Christiansund	29.46	45	SW	9	C	29.67	-16	29	26	-3	W	9	7	7	46	34	0.83	
	Skudesnaes ...	30.15	39	S	8	0	30.02	-25	40	39	+1	S	6	7	6	37	—	—	
	Christiania Fjord (Færd)	30.14	37	SW	6	0	29.98	-20	38	36	+2	WNW	7	C	•	36	—	—	
	Skagen (The Scaw)	30.23	32	SW	3	0	30.13	-23	33	33	+1	SW	4	0	3	39	28	—	
	Fanö ...	30.38	28	S	2	0	30.28	-14	29	29	0	SW	3	0	•	30	27	—	
BRITISH ISLANDS.	Sumbargh Head	29.84	44	SW	7	m	29.82	-23	42	42	-2	W	1	7	6	45	41	0.18	
	Stornoway ...	29.96	45	SW	8	0	29.91	-18	48	47	+4	SW	6	0	6	48	41	0.02	
	Wick ...	30.02	42	SW	3	0	29.95	-21	45	44	+6	SW	2	0	1	45	37	—	
	Nairn ...	30.02	40	WNW	5	0	29.98	-22	43	41	+3	W	4	0	3	45	38	—	
	Aberdeen ...	30.13	37	S	4	0	30.07	-22	37	35	+5	SW	1	C	•	42	32	—	
	Leith ...	30.24	37	W	1	0	30.16	-23	40	39	+10	WNW	1	0	•	45	28	—	
	Shields ...	30.31	40	SW	2	m	30.24	-18	33	32	+2	SW	2	0	2	45	28	—	
	Spurn Head ...	30.36	40	E	1	0	30.31	-11	40	39	0	WNW	2	0	2	42	37	—	
	York ...	30.34	42	S	1	0	30.31	-13	38	38	+3	SW	1	0	•	45	34	—	
	Loughborough	30.36	42	WNW	1	0	30.36	-07	38	38	-3	SE	1	0	•	44	38	—	
GERMANY & HOLLAND.	Ardrossan ...	30.26	42	SW	2	0	30.20	-18	43	41	+7	SW	4	0	3	43	35	—	
	Malin Head ...	30.20	41	SW	4	0	30.13	-23	42	40	+5	SW	5	0	4	42	34	—	
	Mullaghmore ...	30.26	42	SW	4	0	30.20	-20	42	37	+8	SW	4	0	4	43	34	—	
	Belmullet ...	30.25	44	SW	3	0	30.18	-15	44	44	+9	SW	5	0	•	44	34	—	
	Donaghadee ...	30.31	39	SW	3	0	30.26	-18	38	37	+12	SW	2	0	0	46	26	—	
	Liverpool (Bishop)	30.35	42	W	1	0	30.33	-11	41	39	+6	SW	1	0	2	45	34	—	
	Holyhead ...	30.35	43	2	0	0	30.32	-10	43	42	+5	SW	3	0	2	46	30	—	
	Parsonstown ...	30.32	39	2	0	0	30.31	-13	37	36	+12	2	0	•	45	24	—		
	Valencia ...	30.32	46	SE	0	0	30.32	-08	46	45	+5	SW	3	0	3	48	37	—	
	Roche's Point...	30.35	44	SE	2	0	30.34	-08	42	41	+3	SE	1	0	3	46	39	0.01	
FRANCE AND BELGIUM.	Pembroke (St. Ann's Hd.)	30.35	42	SE	2	0	30.38	-02	43	40	+1	SE	2	0	1	46	40	—	
	Scilly ...	30.31	43	ENE	3	0	30.37	+04	40	38	-5	WNW	1	0	4	45	37	—	
	Prawle Point ...	30.35	38	ENE	1	0	30.41	+03	34	38	-4	N	2	0	1	39	32	—	
	Jersey (St. Aubin's)	30.32	39	E	3	0	30.43	+09	32	30	-6	ENE	2	0	2	42	29	—	
	Hurst Castle ...	30.36	38	ENE	3	0	30.42	+03	29	28	-1	2	0	0	39	27	—		
	Dungeness ...	30.34	36	ENE	3	0	30.38	+02	34	33	-2	2	0	0	37	31	—		
	London ...	30.37	38	ENE	1	0	30.41	-01	32	31	-5	WNW	1	0	0	40	30	—	
	Oxford ...	30.39	37	NE	2	0	30.37	-03	34	33	-2	W	1	0	•	44	34	—	
	Cambridge ...	30.35	40	2	0	0	30.35	-07	37	36	0	SW	1	0	•	45	35	—	
	Yarmouth ...	30.35	37	2	0	0	30.34	-07	34	33	-2	SE	1	0	2	38	32	—	
GERMANY & HOLLAND.	Oxhaven ...	30.46	32	ENE	1	0	30.36	-10	29	28	-3	W	1	0	•	32	28	—	
	Berlin ...	30.45	30	E	3	0	30.39	-11	22	21	-4	SE	3	0	•	36	21	—	
	Wiesbaden ...	30.41	30	•	•	•	30.41	+04	19	18	-6	E	1	0	•	32	18	—	
	Munich ...	30.36	15	2	0	0	30.35	+03	7	6	+1	2	0	•	21	5	—		
	The Helder ...	30.38	30	E	1	0	30.36	-07	31	30	-2	WNW	1	0	•	34	30	—	
	Brussels (s.m.)	30.30	31	ENE	2	0	30.44	•	27	27	•	WNW	1	0	•	38	27	—	
	Cape Gris Nez	30.36	29	NE	1	0	30.36	0.0	26	25	-2	2	0	2	34	27	—		
	Paris ...	30.32	40	E	2	0	30.37	+02	36	34	-1	NE	2	0	2	42	34	—	
	Brest ...	30.31	33	ENE	2	0	30.42	+11	31	31	-4	SE	1	0	2	43	30	—	
	Lorient ...	30.29	35	E	3	0	30.36	+09	30	28	0	ENE	2	0	•	41	25	—	
FRANCE AND BELGIUM.	Belfort ...	30.25	25	N	2	0	30.31	+06	19	19	-1	N	2	0	•	35	18	—	
	Lyons ...	30.34	32	W	1	0	30.41	+06	23	22	0	W	1	0	•	37	22	—	
	Nice ...	30.23	40	2	0	0	30.27	+06	34	29	+1	ENE	5	0	4	46	32	—	
	Perpignan ...	30.24	40	WNW	2	0	30.32	+09	31	29	-2	W	2	0	•	43	30	—	
	Biarritz ...	30.25	39	E	1	0	30.34	+16	31	29	-2	SE	2	0	2	46	27	—	
	Corunna ...	30.18	49	NNW	4	0	30.20	+01	43	42	-5	NE	3	0	3	55	43	—	
	Lisbon ...	30.18	49	NNW	4	0	30.20	+01	43	42	-5	NE	3	0	3	55	43	—	

WEATHER CHARTS

for 8 a.m. on 10th February, 1891.

BAROMETER, WIND AND SEA.

EXPLANATION OF MAP.

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

Changes since previous morning are stated in words.

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

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

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

○ = dead calm.

SEA DISTURBANCE—Where considerable, is shown thus—

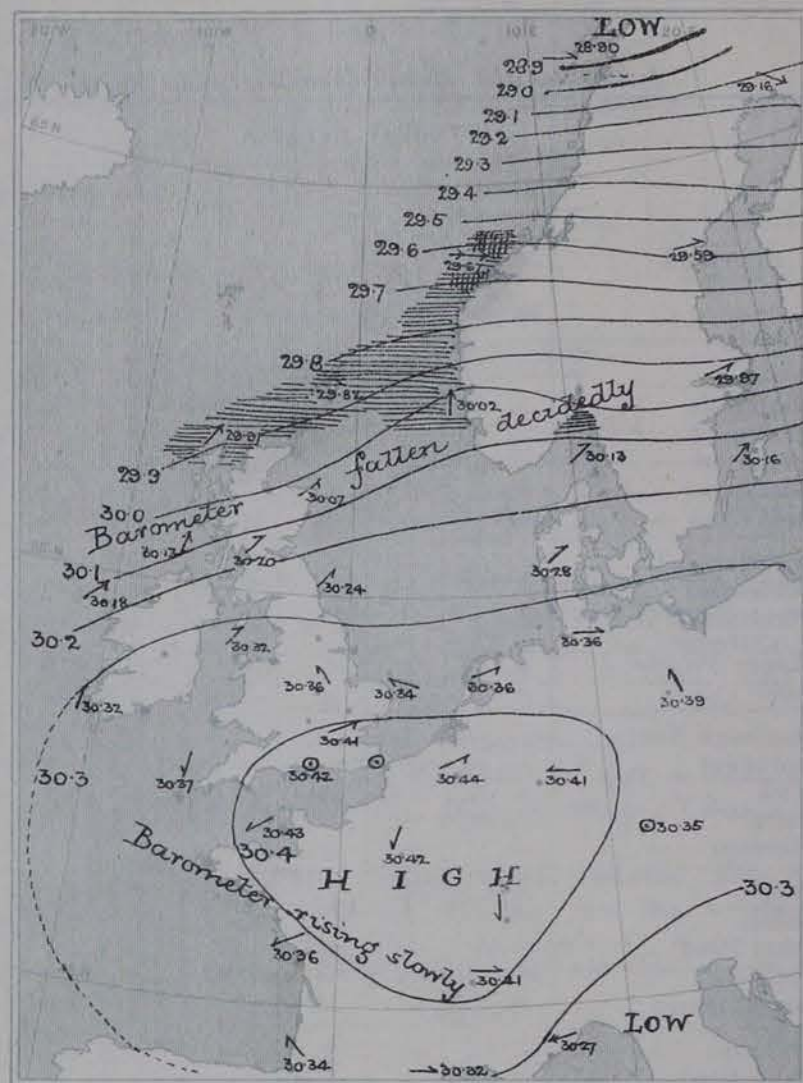
▨ = Rough, ▨ = High.

MEAN HEIGHT OF THE BAROMETER

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

During the 20 Years: 1871—1890.

STATIONS.	MEAN READINGS.
Sumburgh Head	29.773
Stornoway	29.773
Wick	29.804
Nairn	29.814
Aberdeen	29.848
Leith	29.870
Shields	29.906
Spurn Head	29.934
York	29.930
Loughborough	29.963
Ardrossan	29.873
Mullaghmore	29.842
Donaghadee	29.894
Holyhead	29.914
Liverpool	29.934
Parsonstown	29.906
Valencia	29.919
Roche's Point	29.913
Pembroke	29.947
Silly	29.939
Prawle Point	29.903
Jersey	30.007
Hurst Castle	29.986
Dover	29.985
LONDON	29.989
Oxford	29.985
Cambridge	29.979
Yarmouth	29.961



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

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

WEATHER—is shown by Letters of the Beaufort Scale.

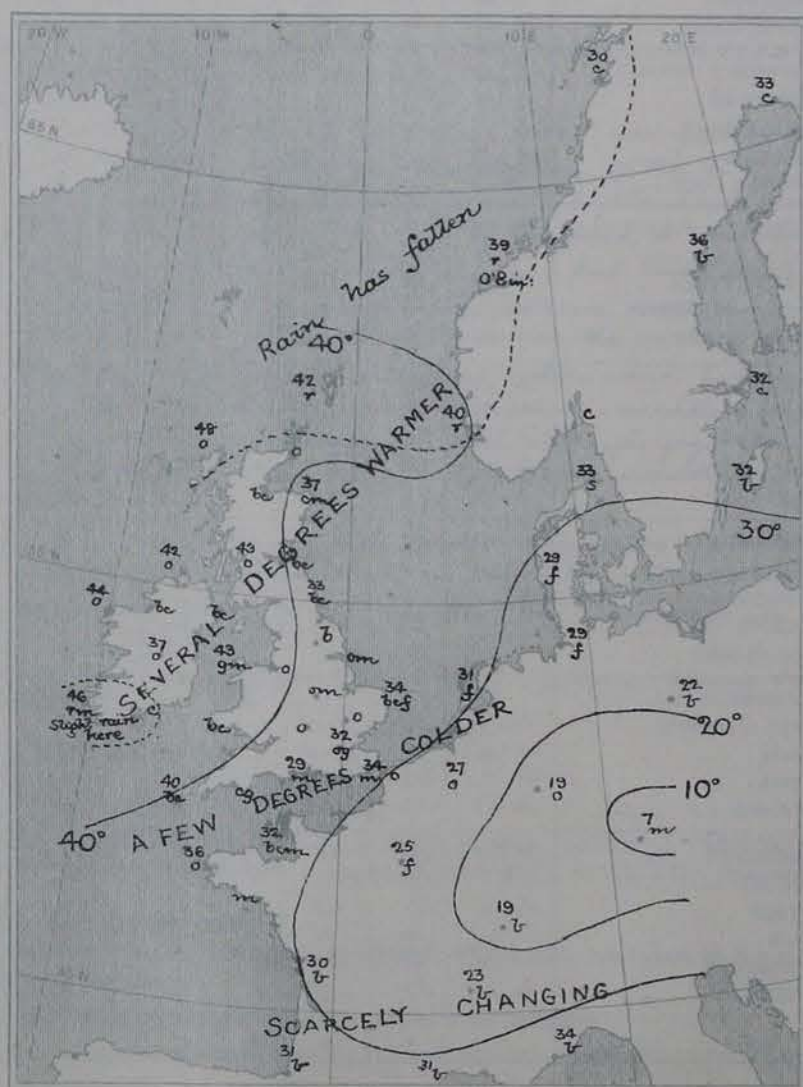
RAINFALL—A dotted line separates the districts in which rain has fallen from those where there has been none. Falls of 0.5 in. or more are quoted in figures.

MEANS OF TEMPERATURE IN SHADE, AND RAINFALL.

(For the month of February.)

STATIONS.	TEMPERATURE.				RAINFALL. (Inches.)
	Daily Max.	Daily Min.	at 8 a.m.	at 4 p.m.	
Sumburgh Head	42.4	34.5	38.5	37.4	3.19
Stornoway	43.5	34.0	39.1	38.1	3.86
Wick	43.1	33.2	38.1	36.7	2.04
Nairn	43.4	31.4	37.1	35.4	1.48
Aberdeen	43.2	33.8	37.3	35.7	2.35
Leith	41.7	34.8	38.6	37.1	1.45
Shields	43.8	35.1	38.6	37.3	1.50
Spurn Head	42.8	35.5	38.4	37.0	1.36
York	41.6	33.9	37.5	36.4	1.70
Loughborough	45.4	38.9	37.5	36.4	1.78
Ardrossan	41.6	36.3	39.4	38.2	3.04
Mullaghmore	46.6	38.6	42.0	40.3	2.80
Donaghadee	45.5	36.9	40.3	39.3	2.42
Holyhead	45.5	38.7	41.5	40.1	2.60
Liverpool	44.5	36.2	38.9	37.3	1.69
Parsonstown	45.9	35.5	39.4	38.1	2.20
Valencia	49.7	40.7	44.6	42.3	4.95
Roche's Point	48.4	39.6	43.1	41.6	4.43
Pembroke	45.5	39.4	42.1	40.9	2.82
Silly	48.9	42.8	45.0	44.4	2.71
Prawle Point	46.8	38.1	41.5	40.5	2.02
Jersey	46.9	39.3	42.3	41.0	2.65
Hurst Castle	45.7	38.7	40.3	39.3	2.30
Dover	44.4	36.1	39.2	38.1	1.95
LONDON	45.8	35.1	38.6	37.4	1.73
Oxford	45.0	34.9	37.9	36.8	1.92
Cambridge	45.5	32.8	37.3	36.2	1.46
Yarmouth	42.6	34.5	38.2	37.3	1.82

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



GENERAL SITUATION AT 8 A.M.

PRESSURE

Highest 30.4 ins. and more to 30.3 ins. over Germany, France and the southern parts of our Islands.
Lowest 28.9 ins. and less over Lapland, 29.8 ins. in the Shetlands.
Gradients moderate over the northern districts, slight in the south.

Barometer rising a little over France, steady in the south of our Islands, falling slightly in the northwest, rising in Norway.

TEMPERATURE

Highest 48° at Stormoway, 44° to 46° in the west of Ireland, 43° at Lisbon.

Lowest (1) 30° at Rode, 33° at Haparanda, (2) 7° at Munich, 19° at Wiesbaden, 22° at Berlin, 25° at Paris, 29° at Hurst Castle, 32° in London (26° on the grass)

Over central Ireland it has risen to 37°.

WIND

W^{ly} to SW^{ly} over the northern half of our area - light to moderate in most places, but strong at Stormoway, and blows a gale at Christiansund. In France the wind is mainly E^{ly}, but very variable; in the Channel variable airs and calms prevail.

WEATHER

Fine over southern and central Europe, but hazy in places; foggy at several of the North Sea stations, overcast in many other places - especially in the extreme west and north. Rain is falling at Valencia Island, Lumburgh Head, and in the west of Ireland.

SEA

Very rough in the far north (high at Christiansund); moderate in the NW. & at Scilly, smooth or dead calm elsewhere.

PROBABLE CHANGES IN SYSTEM NOW PREVALENT

There is no indication of any important change.

FORECASTS

For the 24 hours ending at NOON on 11TH FEBRUARY 1891.

DISTRICTS.

FORECASTS.

0	SCOTLAND NORTH	W ^{ly} and SW ^{ly} winds, force doubtful; rain at times.
1	SCOTLAND EAST	
2	ENGLAND N.E.	SW ^{ly} breezes, moderate or light; fair as a whole.
3	ENGLAND EAST	
4	MIDLAND COUNTIES	Light and variable breezes; dry haze or fog in many places.
5	ENGLAND SOUTH	

DISTRICTS.

FORECASTS.

6	SCOTLAND WEST	Same as N ^o 0
7	ENGLAND N.W.	
8	ENGLAND S.W.	Same as N ^{os} 3 to 5.
9	IRELAND NORTH	
10	IRELAND SOUTH	S ^{ly} winds, strong in west, moderate in east; mild, some rain.
	WARNINGS	
		None Issued

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

YESTERDAY'S 2 P.M. REPORTS.

THER: WIND								THER: WIND								
	BAR:	D.	W.	D.	F.	WEA.	SEA			BAR:	D.	W.	D.	F.	WEA.	SEA
Skudesnaes ...	30.28	40	38	SE	4	0	4	Holyhead ...	...	30.37	45	43	W	2	c	1
Sumburgh Head	29.92	43	40	SW	5	0	5	Valencia ...	...	30.35	47	45	SE	4	om	3
Stornoway ...	30.01	43	42	SW	5	0	6	Scilly ...	...	30.31	45	42	SE	2	c	4
Aberdeen ...	30.18	41	38	S	3	0	2	Jersey ...	...	30.33	39	36	ENE	3	bc	3
Shields ...	30.33	44	40	SW	3	0	2	Dungeness ...	...	30.34	36	35	ENE	4	m	3
Ardrossan ...	30.31	42	39	SW	3	0	2	London ...	...	30.38	40	38	ENE	1	omg	4
Malin Head ...	30.25	42	39	SW	5	0	4	Yarmouth ...	...	30.36	38	37	SW	1	bc	2
Mullaghmore ...	30.31	43	39	SW	4	0	4	Rochefort ...	...	30.29	37	33	E	3	bc	?
Belmullet ...	30.28	44	42	SW	3	0	*									

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

Weather fine over the greater part of western and central Europe, as well as in Finland and the south of Russia, but dull and misty at several of the English stations, and foggy over Denmark and the Netherlands - Dull in Italy, Austria and central Russia, with rain at Brindisi; snow reported at Perpignan. Slight rain falling during day in the Shetlands and Hebrides, and larger amounts in the west of Norway, lightning seen at Christiansund at night.

Temperature highest 49° at Brindisi, 48° at Lisbon and Algiers, 47° at Malta, and 46° at Palma, above 40° in the extreme southwest and north of the United Kingdom, as well as in the west of Norway. Lowest -3° F at Hermannstadt, +1° at Caracow, 6° at Munich, 8° at Nicolaieff, and 11° at Warsaw and Kharkov; below the freezing point in the northeast of Great Britain, and also in the eastern and central parts of Ireland. Daily maxima below 40° on the eastern and southern coasts of England, frost occurring in the same localities at night.

Wind SW^{ly} over the more northern parts of our Islands and the Continent, light or moderate in force generally, but strong to a gale in the Hebrides, and also at Christiansund and Ulcaborg. Light from the SE^{ward} over central Europe and from the E^{ward} or NE^{ward} over England, France and Spain; strong from the N^{ward} in the north of Italy, S^{ward} or SW^{ward} in Algeria. Subsequently increasing to a strong gale from the SW^{ward} in the Shetlands; little change elsewhere.

Barometer highest 30.6 ins. and upwards over eastern Austria and the extreme south of Russia, 30.4 ins. and upwards in a large anticyclone extending across Europe to England and Ireland. Lowest 29.4 ins. and less in a deep depression lying over the N. of Scandinavia; 30.0 ins. and less in a small shallow disturbance lying near the Balearic Isles. New depression approaching the west of Norway in evening.

EXPLANATION OF COLUMNS GIVEN ON PAGE 1.

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

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

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

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

DAILY WEATHER REPORT.

for Wednesday 11th February.

1891.

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 ...	29.34	24	2	0	f	29.16	0.0	16	15	-17	NNE	2	0	*	27	21	—	
	Hernösand ...	29.58	32	2	0	f	29.00	-0.59	39	36	+3	SEW	4	0	*	41	32	—	
	Stockholm ...	29.88	36	W	4	0	29.44	-0.49	37	34	+5	WSEW	6	0	*	37	30	—	
	Wisby ...	30.04	32	WSEW	6	0	29.72	-0.44	34	32	+2	WSEW	8	0	*	36	28	—	
	Bodö ...	29.26	27	W	6	m	29.27	+0.37	26	23	-4	N	2	0	1	30	21	—	
	Christiansund	29.48	35	NE	1	0	29.46	-0.21	30	28	-9	NNE	2	0	4	?	?	—	
	Skudesnaes ...	29.88	40	0	6	0	29.60	-0.42	43	41	+3	WNW	6	0	5	?	39	—	
	Christiania Fjord (Færd)	29.84	40	SEW	8	f	29.40	-0.55	41	40	+3	SEW	8	0	5	?	38	—	
	Skagen (The Seaw)	29.79	35	SEW	6	0	29.66	-0.47	38	38	+5	SEW	7	m	5	?	32	—	
	Fanö ...	30.19	32	SEW	4	0	29.99	-0.29	34	34	+5	SEW	5	0	*	34	28	—	
BRITISH ISLANDS.	Sumburgh Head	29.58	44	W	4	0	29.63	-0.19	39	38	-3	2	0	0	5	47	39	0.22	
	Stornoway ...	29.66	49	SEW	7	0	29.66	-0.25	42	42	-6	SEW	4	7	6	53	40	0.15	
	Wick ...	29.70	46	W	5	0	29.70	-0.25	41	41	-4	2	0	7	2	51	40	0.15	
	Nairn ...	29.79	45	WSEW	4	0	29.65	-0.33	49	48	+6	WSEW	1	0	1	50	43	0.01	
	Aberdeen ...	29.91	41	0	1	0	29.73	-0.24	47	45	+10	SEW	4	0	4	47	37	—	
	Leith ...	30.05	44	W	3	0	29.88	-0.28	49	47	+9	W	5	7	*	49	39	—	
	Shields ...	30.13	44	SEW	3	m	29.97	-0.27	49	46	+16	SEW	5	0	2	49	30	—	
	Spurn Head ...	30.26	41	SEW	4	0	30.15	-0.16	40	38	0	SEW	4	0	3	43	37	—	
	York ...	30.22	43	W	2	0	30.13	-0.18	46	43	+8	W	3	0	*	46	37	—	
	Loughborough	30.33	41	WSEW	2	0	30.25	-0.11	39	37	+1	SEW	3	0	*	43	36	—	
GERMANY & HOLLAND.	Ardrossan ...	30.10	40	SEW	4	0	29.91	-0.29	48	47	+5	WSEW	5	0	5	48	3	—	
	Malin Head ...	30.01	45	SEW	5	0	29.88	-0.25	48	47	+6	SEW	6	0	4	48	41	—	
	Mullaghmore ...	30.11	46	SEW	6	0	30.02	-0.18	49	47	+7	SEW	7	0	6	49	41	—	
	Belmullet ...	30.18	47	WSEW	6	0	30.04	-0.14	49	48	+5	WSEW	8	0	*	49	43	—	
	Donaghadee ...	30.18	46	W	4	0	30.04	-0.22	47	45	+9	WSEW	6	0	4	47	38	—	
	Liverpool (Bidston)	30.28	44	SEW	3	0	30.19	-0.14	43	41	+2	SEW	3	0	3	45	41	—	
	Holyhead ...	30.28	45	SEW	4	0	30.19	-0.13	45	43	+2	SEW	4	0	4	47	43	—	
	Parsonstown ...	30.20	45	2	0	0	30.20	-0.11	45	43	+8	SEW	1	0	*	48	36	—	
	Valencia ...	30.30	49	SEW	3	0	30.26	-0.06	50	47	+4	SEW	6	0	5	50	45	0.05	
	Roche's Point...	30.33	45	WSEW	3	0	30.31	-0.03	48	45	+6	W	4	0	4	49	40	0.05	
FRANCE AND BELGIUM.	Pembroke (St. Ann's Hd.)	30.16	44	SEW	3	0	30.31	-0.07	45	44	+2	SEW	4	0	4	46	42	—	
	Scilly ...	30.49	42	WSEW	2	0	30.37	0.0	46	44	+6	WSEW	3	0	4	48	40	—	
	Prawle Point...	30.42	38	WSEW	1	0	30.41	0.0	41	41	+7	WNW	2	0	1	41	34	—	
	Jersey (St. Aubin's)	30.43	38	NE	1	0	30.46	+0.03	42	39	+10	SEW	4	0	3	43	31	—	
	Hurst Castle ...	30.42	39	W	3	0	30.39	-0.03	44	44	+5	W	2	0	1	43	28	—	
	Dungeness ...	30.37	36	W	2	0	30.36	-0.02	35	34	+1	WNW	2	0	1	40	30	—	
	London ...	30.40	37	SEW	1	0	30.35	-0.06	38	31	+1	SEW	1	0	*	44	32	—	
	Oxford ...	30.38	39	SEW	3	0	30.34	-0.05	35	34	+1	WSEW	3	0	*	47	34	—	
	Cambridge ...	30.34	42	SEW	1	0	30.28	-0.07	36	35	-1	SEW	1	0	*	44	33	—	
	Yarmouth ...	30.31	40	SEW	2	0	30.25	-0.09	36	35	+2	WSEW	3	0	2	41	33	—	
PENINSULA.	Cuxhaven ...	30.36	30	SEW	2	0	30.31	-0.15	32	31	+3	SEW	4	0	*	?	?	—	
	Berlin ...	30.36	29	SEW	2	0	30.29	-0.10	27	26	+5	SEW	3	0	*	34	?	—	
	Wiesbaden ...	*	*	*	*	*	30.41	0.0	22	22	+3	NE	2	0	*	32	19	—	
	Munich ...	30.38	15	E	1	0	30.38	+0.03	8	8	+1	SE	3	0	*	21	7	—	
	The Helder ...	30.35	33	SEW	1	0	30.28	-0.13	36	36	+5	SEW	3	0	3	36	30	—	
	Brussels (9 a.m.)	*	*	*	*	*	30.34	-0.02	38	36	+8	W	4	0	4	39	30	—	
	Cape Gris Nez	30.45	27	NE	1	0	30.46	+0.04	30	29	+5	SE	1	0	*	37	?	—	
	Paris ...	30.42	29	SE	1	0	30.49	+0.12	42	32	+6	SE	2	0	3	?	34	—	
	Brest ...	30.43	36	SE	1	0	30.49	+0.07	30	30	-1	SE	1	0	2	43	28	—	
	Lorient ...	30.43	36	SE	1	0	30.49	+0.07	30	30	-1	SE	1	0	2	43	28	—	
FRANCE AND BELGIUM.	Rochefort ...	30.41	40	N	4	0	30.47	+0.11	26	26	-4	NE	2	0	*	43	23	—	
	Belfort ...	?	26	SEW	1	0	?	?	20	?	+1	NE	3	0	*	35	18	—	
	Lyons ...	30.43	28	W	1	0	30.53	+0.09	21	21	-2	E	1	0	*	33	19	—	
	Nice ...	30.30	42	E	3	0	30.30	+0.03	37	32	+3	ENE	3	0	2	50	34	—	
	Perpignan ...	30.33	41	NE	2	0	30.36	+0.04	41	34	+10	SEW	2	0	*	51	?	—	
	Biarritz ...	30.37	46	NNE	3	0	30.46	+0.12	38	30	+2	SE	3	0	2	48	30	—	
PENINSULA.	Corunna ...	*	*	*	*	*	30.28	+0.08	42	37	-1	NE	5	0	5	52	41	—	
	Lisbon ...	30.24	48	NE	4	0	30.28	+0.08	42	37	-1	NE	5	0	5	52	41	—	

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 11th February, 1891.

BAROMETER, WIND AND SEA.

EXPLANATION OF MAP

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

Changes since previous morning are stated in words.

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

— forces above 10; — forces 8 to 10;

— forces 5 to 7; — forces 1 to 4.

⊙ = dead calm.

SEA DISTURBANCE—Where considerable, is shown thus:

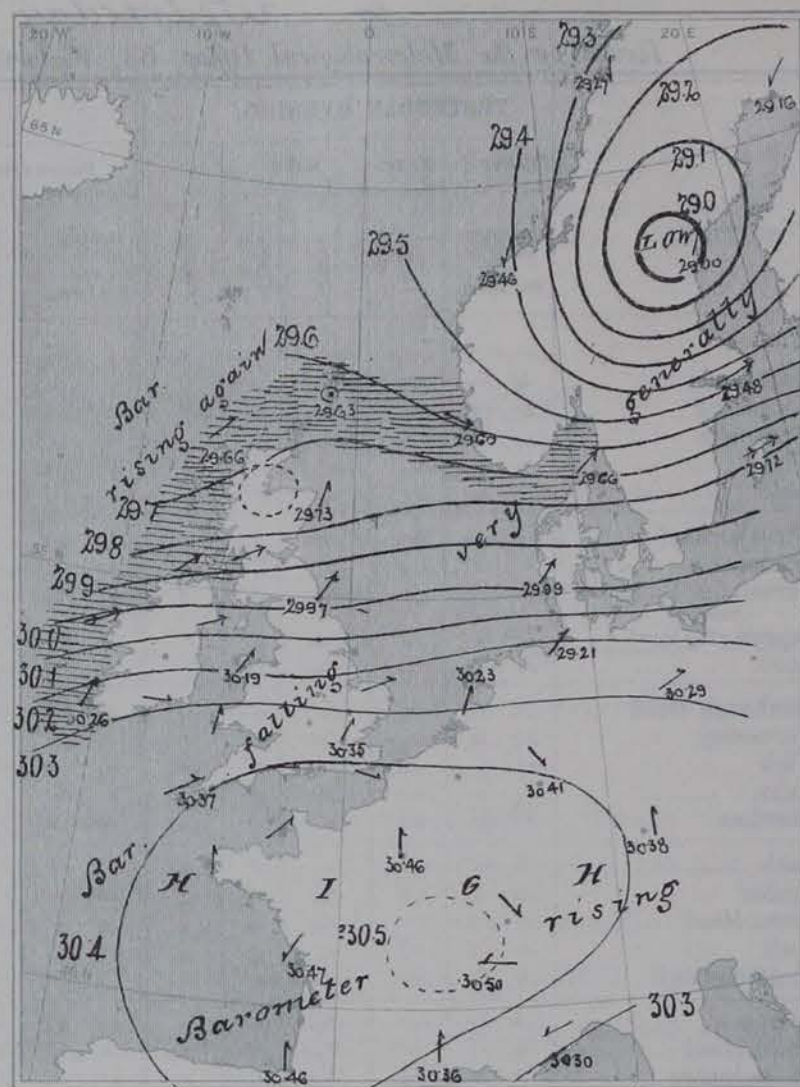
— Rough. — High.

MEAN HEIGHT OF THE BAROMETER

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

During the 20 Years: 1871—1890.

STATIONS.	MEAN READINGS.
Sumburgh Head	29.775
Stornoway	29.773
Wick	29.801
Nairn	29.814
Aberdeen	29.848
Leith	29.870
Shields	29.906
Spurn Head	29.934
York	29.930
Loughborough	29.963
Ardrossan	29.873
Mullaghmore	29.842
Douaghadee	29.884
Holyhead	29.911
Liverpool	29.931
Parsonstown	29.946
Valencia	29.919
Roche's Point	29.916
Pembroke	29.947
Sally	29.959
Prawle Point	29.993
Jersey	30.007
Hurst Castle	29.988
Dover	29.985
LONDON	29.989
Oxford	29.985
Cambridge	29.979
Yarmouth	29.964



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

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

WEATHER—is shown by Letters of the Beaufort Scale.

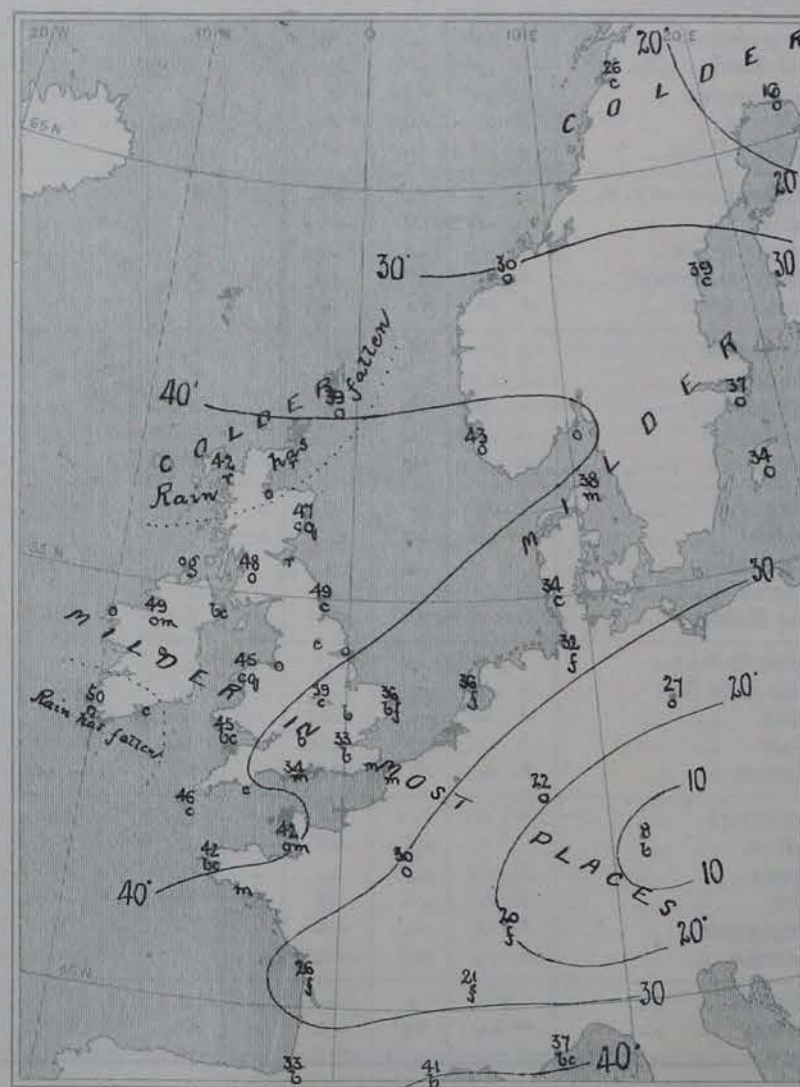
RAINFALL—A dotted line separates the districts in which rain has fallen from those where there has been none. Falls of 0.5 in. or more are quoted in figures.

MEANS OF TEMPERATURE IN SHADE, AND RAINFALL.

(For the month of February.)

STATIONS.	TEMPERATURE.				RAINFALL. (Inches.)
	Daily Max.	Daily Min.	MEAN Day.	MEAN Night.	
Sumburgh Head.....	42.4	34.5	38.5	37.4	3.19
Stornoway	43.5	34.6	39.1	38.1	3.86
Wick	43.1	33.2	38.1	36.7	2.04
Nairn	43.4	33.4	37.1	35.4	1.48
Aberdeen	43.2	33.8	37.3	35.7	2.35
Leith	45.7	34.3	38.6	37.1	1.45
Shields	43.8	35.1	38.6	37.2	1.50
Spurn Head.....	42.8	35.5	38.4	37.6	1.36
York	44.0	33.9	37.5	36.4	1.70
Loughborough	45.4	33.9	37.5	36.4	1.78
Ardrossan	41.6	35.3	39.4	38.2	3.04
Mullaghmore	40.6	34.6	42.0	40.3	2.80
Douaghadee	45.5	36.9	40.3	39.3	2.42
Holyhead	45.5	38.7	41.5	40.1	2.60
Liverpool	44.5	36.2	38.9	37.3	1.69
Parsonstown	46.0	35.6	39.4	38.1	2.20
Valencia	40.7	40.7	41.6	42.0	4.95
Roche's Point	48.4	39.0	43.1	41.6	4.43
Pembroke	45.5	39.4	42.1	40.9	2.82
Sally	48.9	42.8	45.0	44.4	2.71
Prawle Point	46.8	33.1	41.6	40.5	2.02
Jersey	46.9	39.3	42.3	41.0	2.55
Hurst Castle	45.7	36.7	40.3	39.3	2.30
Dover	44.4	36.1	39.2	38.1	1.95
LONDON	45.8	35.1	38.6	37.4	1.73
Oxford	45.0	34.9	37.9	36.8	1.92
Cambridge	45.5	32.8	37.3	36.2	1.46
Yarmouth	42.6	34.5	38.2	37.3	1.82

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



GENERAL SITUATION AT 8 A.M.

PRESSURE

Highest, 30.4 in. and more to 30.5 in. over France, the south of England and south Germany.
 Lowest, 29.0 in. and less, in a depression over Central Sweden, and about 29.6 in. to the northward of Scotland.
 Gradients rather steep over Ireland and the north of England, very steep over the south of Sweden.
 Barometer rising in Scotland, falling in Sweden, also in the west of Ireland.

TEMPERATURE

Highest, 50° at Valencia Island, 49° at Bilmullet and Nain, 47° at Aberdeen, 46° at Scilly, and 42° at Jersey.
 Lowest, (1) 8° at Munich, 20° at Belfat, 22° at Nistad; (2) 16° at Kapasand, 26° at Bori.
 At Berlin the reading was 17°, at Paris 30°, and in London 33°.

WIND

SW^{ly} over the British Islands and North Sea, — Strong on our northwest coasts, and blowing a gale in the Skager Rack, as well as at Bilmullet and Mullaghmore.
 A gale has been felt at Lumburg H^d and Aberdeen during the night.

WEATHER

Fair over France and England, but cloudy, or foggy in places; dull and unsettled in the west and north, with rain at Leith, Wick, and Stromsøya.

SEA

Rough off our north and northwest coasts, moderate in the west, smooth in the south and east.

PROBABLE CHANGES IN SYSTEM NOW PREVALENT

A new depression is approaching Ireland from the Atlantic and threatens to cause an increase of SW^{ly} wind and less fair weather in most places — gales and rain in west and north.

FORECASTS

For the 24 hours ending at NOON on 12th FEB: 1891.

DISTRICTS.

FORECASTS.

1	0	SCOTLAND NORTH	SW ^{ly} gales or strong winds; squally, showery.
1	1	SCOTLAND EAST	SW ^{ly} and W ^{ly} winds, increasing; unsettled, rain at times
2	2	ENGLAND N.E.	
3	3	ENGLAND EAST	SW ^{ly} winds, freshening; fair to rather unsettled. Becoming milder.
4	4	MIDLAND COUNTIES	
5	5	ENGLAND SOUTH	

DISTRICTS.

FORECASTS.

1	6	SCOTLAND WEST	Same as No 0
1	7	ENGLAND N.W.	Same as Nos 1 and 2.
8	8	ENGLAND S.W.	SW ^{ly} winds, freshening; fair to showery. Milder.
1	9	IRELAND NORTH	Same as No 0
10	10	IRELAND SOUTH	Same as No 1 and 2.

WARNINGS

The NORTH CONE, hoisted last evening in districts 0, 1, 6, 7, and 9 is still up.

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

YESTERDAY'S 2 P.M. REPORTS.

THER: WIND								THER: WIND							
BAR:	D.	W.	D.	F.	WEA.	SEA		BAR:	D.	W.	D.	F.	WEA.	SEA	
Skudesnaes ...	29.77	40	39	SE	4	o f	6	Holyhead ...	30.31	46	44	SW	4	c	3
Sumburgh Head	29.70	46	45	W	5	o	6	Valencia ...	30.31	49	47	SSW	5	om	5
Stornoway ...	29.79	47	45	SW	6	o	6	Scilly ...	30.49	48	44	S	1	bc	4
Aberdeen ...	29.96	43	40	SW	4	c	3	Jersey ...	30.45	42	38	ENE	2	bc	2
Shields ...	30.17	47	41	WSW	3	c	2	Dungeness ...	30.38	40	37	W	3	c	2
Ardrossan ...	30.15	44	43	SW	4	o	3	London ...	30.37	44	42	WSW	1	bc	*
Mulin Head ...	30.08	45	43	SW	4	o	4	Yarmouth ...	30.31	41	40	SSW	2	f	2
Mullaghmore ...	30.16	47	44	SW	5	o	4	Rochefort ...	30.42	41	36	N	3	f	?
Belmullet ...	30.15	47	46	WSW	5	o	*								

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

Continental Information not received.

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 12TH FEBRUARY. 1891.

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

STATIONS.	YESTERDAY EVENING.					8 A.M. TO DAY.										PAST 24 HOURS.		
	BAROM.	TEMP.	WIND.		Weather.	BAROMETER.		SHADE TEMP.			WIND.		Weather.	Sea. (0 to 2.)	SHADE TEMP.			
	Reading at 32° F. and Sea Level.	Dry.	Dir.	Force. (0 to 12.)		Reading at 32° F. and Sea Level.	Difference from 8 a.m. yesterday.	Dry.	Wet.	Difference from 8 a.m. yesterday.	Dir.	Force. (0 to 12.)			Max.	Min.	Amount of Rainfall.	
SCANDINAVIA.	Haparanda ...	29.50	A	N	2	c	29.40	+24	12	13	-2A	N	2	6	*	27	?	—
	Hernösand ...	29.53	22	2	0	bc	29.35	+25	22	20	-17	NNW	6	0	*	43	21	—
	Stockholm ...	29.62	32	WNW	4	0	28.76	-72	33	33	-4	SW	2	5	*	43	30	0.24
	Wisby ...	29.64	36	SW	6	0	28.93	-73	37	36	+3	SW	2	7	*	37	30	0.04
	Bodö ...	29.29	22	N	4	5	29.45	+18	21	20	-5	WNW	4	5	2	25	0	—
	Christiansund	29.28	32	ESE	5	0	29.74	+28	22	21	-8	WNW	8	5	4	32	21	1.18
	Skudesnaes ...	29.32	34	NW	5	0	29.88	+28	29	27	-14	NW	9	ctg	5	41	27	—
	Christiania Fjord (Færder)	29.39	37	NNE	3	7	29.42	-01	32	28	-9	WNW	8	bc	5	43	30	—
	Skagen (The Scaw)	29.47	40	WNW	6	0	29.41	-25	34	32	-4	WNW	8	bc	7	41	34	0.20
	Fanö ...	29.71	36	SW	6	0	29.86	-13	35	31	+1	WNW	6	6	*	39	34	0.04
BRITISH ISLANDS.	Sumburgh Head	29.50	32	N	3	08p	30.10	+47	31	31	-8	N	3	0	3	40	28	0.26
	Stornoway ...	29.72	33	N	7	8	30.14	+48	37	35	-5	N	4	bc	4	42	28	1.00
	Wick ...	29.54	35	N	5	0	30.18	+48	30	29	-11	NW	1	C	2	40	29	1.10
	Nairn ...	29.53	35	WNW	4	37	30.19	+24	31	30	-18	2	0	ST	1	38	28	0.61
	Aberdeen ...	29.44	30	WNW	7	bcga	30.25	+32	32	30	-15	SW	2	og	5	35	31	0.11
	Leith ...	29.65	35	SW	7	0	30.27	+33	33	31	-16	W	1	m	*	32	31	0.02
	Shields ...	29.78	48	SW	4	0	30.28	+31	34	32	-15	NW	2	bc	3	30	32	0.01
	Spurn Head ...	29.97	45	SW	6	bc	30.28	+13	38	36	-2	NW	3	6	3	47	36	0.01
	York ...	29.97	48	W	5	0	30.32	+15	35	33	-11	WNW	1	6	*	30	33	—
	Loughborough	30.12	46	SW	4	C	30.32	+07	37	36	-2	WNW	1	cmw	*	49	37	—
GERMANY & HOLLAND.	Ardrossan ...	29.76	48	W	5	C	30.29	+38	36	35	-12	2	0	of	0	30	33	0.08
	Malin Head ...	29.77	45	W	7	08p	30.30	+42	41	38	-7	WNW	3	bc	3	49	36	0.07
	Mullaghmore ...	30.01	46	W	7	bc	30.35	+33	40	37	-9	WNW	2	bc	3	50	40	0.05
	Belmullet ...	30.08	46	WNW	6	0	30.41	+37	38	38	-11	W	1	0	*	30	37	0.06
	Donaghadee ...	29.83	49	W	6	6	30.35	+31	32	32	-15	W	3	bc	2	30	29	—
	Liverpool (Bidston)	30.03	47	SW	6	C	30.35	+16	38	35	+5	ENE	1	cf	2	30	37	—
	Holyhead ...	30.06	47	SW	5	08p	30.36	+17	42	39	-3	WNW	3	bc	3	49	41	—
	Parsonstown ...	30.10	47	WNW	3	0	30.41	+21	31	31	-14	2	0	6	*	32	30	—
	Valencia ...	30.21	51	WNW	6	0	30.43	+17	38	37	-12	2	0	6	*	30	37	0.05
	Roche's Point...	30.23	50	W	4	C	30.41	+10	39	37	-9	N	1	6	3	32	38	—
FRANCE AND BELGIUM.	Pembroke (St. Ann's Hd.)	30.21	47	SW	5	C	30.39	+08	45	44	0	NW	2	6	3	48	40	0.02
	Scilly ...	30.34	48	W	4	bc	30.36	-01	48	48	+2	WNW	4	m	5	32	45	0.01
	Prawle Point...	30.34	45	W	3	0	30.31	-10	42	42	+1	WNW	3	C	2	48	40	0.01
	Jersey (St. Aubin's)	30.39	44	W	4	08p	30.38	-08	47	46	+5	W	4	omT	3	47	41	0.02
	Hurst Castle ...	30.29	42	WNW	4	6	30.33	-06	41	40	+7	NW	3	C	1	45	34	—
	Dungeness ...	30.26	42	W	4	C	30.25	-11	42	42	+7	W	3	C	2	45	34	—
	London ...	30.28	43	W	2	bc	30.30	-05	43	40	+10	WNW	2	C	*	49	33	—
	Oxford ...	30.20	44	W	4	6	30.33	-01	39	37	+4	W	1	6 m	*	49	35	—
	Cambridge ...	30.16	43	W	1	6	30.32	+04	40	39	+4	N	1	0	*	30	34	—
	Yarmouth ...	30.10	43	W	3	bc	30.23	-02	38	37	+2	NW	2	bcf	3	47	35	—
PENIN- SULA.	Cuxhaven ...	30.06	36	WNW	6	0	29.97	-24	36	35	+4	WNW	6	C	*	38	?	—
	Berlin ...	30.17	32	SW	3	C	29.92	-37	34	32	+7	W	5	0	*	34	?	—
	Wiesbaden ...	*	*	*	*	*	30.23	-18	32	31	+10	SW	2	0	*	32	?	—
	Munich ...	30.32	18	2	0	6	30.31	-07	19	19	+11	SW	5	0	*	28	A	—
	The Helder ...	30.48	38	SW	3	C	30.19	-04	37	36	+1	N	2	C	3	37	36	?
	Brussels (9 a.m.)	*	*	*	*	*	30.24	*	36	36	*	SW	1	F	*	38	32	0.04
	Cape Gris Nez	30.26	39	SW	5	m	30.24	-10	41	41	+3	NW	3	bc	3	43	36	—
	Paris ...	30.42	34	SW	1	0	30.37	-05	33	33	+3	5	2	0	*	37	32	—
	Brest ...	30.45	47	W	3	0	30.41	-08	44	43	+2	NW	4	C	3	50	37	—
	Lorient ...	30.47	37	SSE	1	0	30.45	-04	45	44	+3	WNW	2	C	4	?	30	—
FRANCE AND BELGIUM.	Rochefort ...	30.46	34	NNE	2	C	30.50	+03	36	33	+10	8	3	0	*	39	30	—
	Belfort ...	?	25	W	2	0	?	?	27	?	+7	W	3	0	*	28	?	—
	Lyons ...	30.47	28	N	1	0	30.49	-01	27	26	+6	N	1	m	*	34	?	—
	Nice ...	30.27	42	SSE	2	bc	30.26	-04	37	34	0	NE	4	6	*	32	36	—
	Perpignan ...	30.27	46	NW	2	6	30.33	-03	41	34	0	NW	4	bc	*	38	39	—
	Biarritz ...	30.46	44	N	3	6	30.52	+06	33	31	0	E	2	bc	2	48	30	—
	Corunna ...	30.22	32	NNE	5	6	30.35	+07	40	38	+1	NNE	3	6	2	35	42	—

WEATHER CHARTS

for 8 a.m. on

12th February 1891.

BAROMETER, WIND AND SEA.

EXPLANATION OF MAP

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

Changes since previous morning are stated in words.

WIND—Arrows show the prevalent winds. They fly with the wind and

their barbs and feathers refer to force thus—

→ forces above 10; → forces 8 to 10;

→ forces 5 to 7; → forces 1 to 4.

○ = dead calm.

SEA DISTURBANCE—Where considerable, is shown thus:

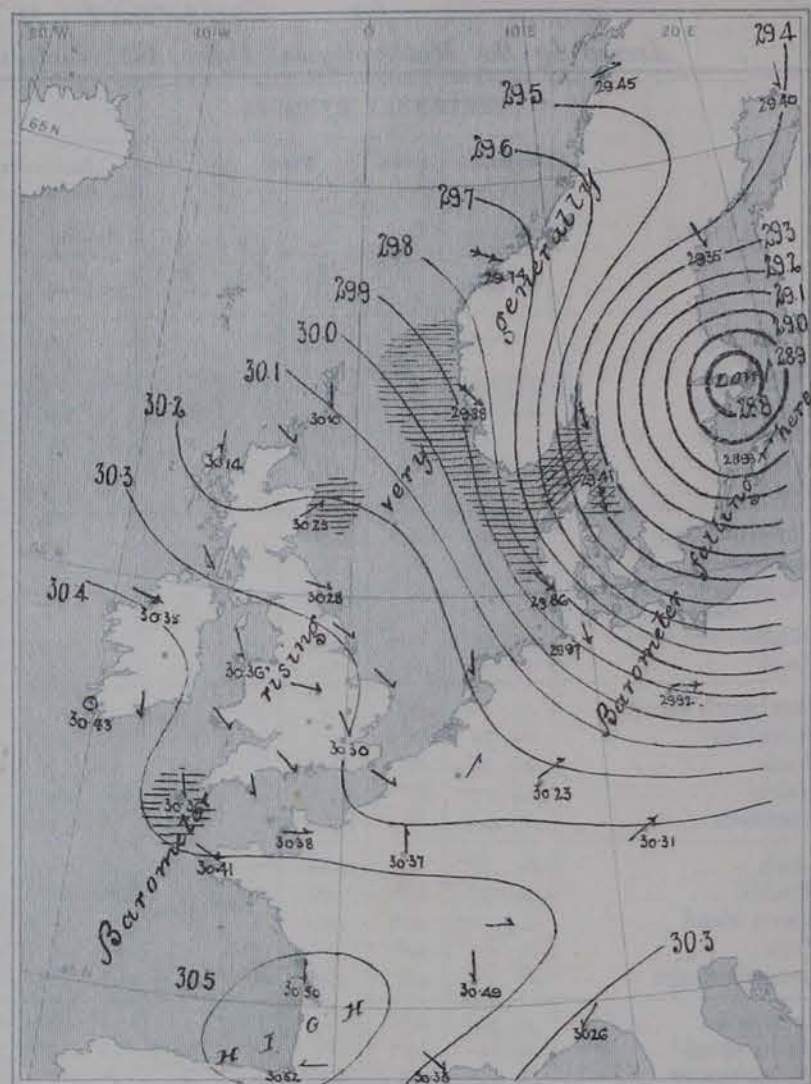
▨ = Rough. ▨ = High.

MEAN HEIGHT OF THE BAROMETER

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

During the 20 Years: 1871—1890.

STATIONS.	MEAN READINGS.
	ins.
Sumburgh Head	29.775
Stornoway	29.773
Wick	29.801
Nairn	29.811
Aberdeen	29.848
Leith	29.870
Shields	29.906
Spurn Head	29.934
York	29.939
Loughborough	29.963
Ardrossan	29.873
Mullaghnore	29.842
Donaghadee	29.884
Holyhead	29.914
Liverpool	29.934
Parsonstown	29.946
Valencia	29.979
Roche's Point	29.916
Pembroke	29.917
Sally	29.959
Prawle Point	29.933
Jersey	30.007
Hurst Castle	29.986
Dover	29.985
LONDON	29.989
Oxford	29.985
Cambridge	29.979
Yarmouth	29.961



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

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

WEATHER is shown by Letters of the Beaufort Scale.

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

MEANS OF TEMPERATURE IN SHADE, AND RAINFALL.

(For the month of February.)

STATIONS.	TEMPERATURE.				RAINFALL. (Inches.)
	Daily Max.	Daily Min.	at 8 a.m. Dry.	Wet.	
Sumburgh Head	42.4	34.5	38.5	37.4	3.19
Stornoway	43.5	34.6	39.1	38.1	3.86
Wick	43.1	33.2	38.1	36.7	2.04
Nairn	43.4	34.4	37.1	35.4	1.48
Aberdeen	43.2	33.8	37.3	35.7	2.36
Leith	45.7	34.3	38.6	37.1	1.45
Shields	43.8	35.1	38.6	37.3	1.50
Spurn Head	42.8	35.5	38.4	37.6	1.36
York	44.0	33.9	37.5	36.4	1.70
Loughborough	45.4	33.9	37.5	36.4	1.78
Ardrossan	44.6	36.3	39.4	38.2	3.04
Mullaghnore	46.6	34.6	42.0	40.2	2.80
Donaghadee	45.5	36.9	40.3	39.3	2.42
Holyhead	45.6	38.7	41.0	40.1	2.60
Liverpool	44.5	36.2	38.9	37.3	1.89
Parsonstown	46.9	35.6	39.4	38.1	2.20
Valencia	49.7	40.7	44.8	42.9	4.95
Roche's Point	48.4	39.6	43.1	41.6	4.43
Pembroke	45.5	39.4	42.1	40.9	2.82
Sally	48.9	42.8	45.0	44.4	2.71
Prawle Point	46.8	33.1	41.5	40.5	2.02
Jersey	46.9	39.3	42.3	41.0	2.55
Hurst Castle	45.7	36.7	40.3	39.3	2.30
Dover	44.4	36.1	39.2	38.1	1.95
LONDON	45.8	35.1	38.6	37.4	1.73
Oxford	45.0	34.9	37.9	36.8	1.92
Cambridge	45.5	32.8	37.3	36.2	1.46
Yarmouth	42.6	34.5	38.2	37.3	1.82

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



GENERAL SITUATION AT 8 A.M.

PRESSURE

Highest, 30.5 in. to 30.3 in. over the south-west of France, the Bay of Biscay, and the greater part of Ireland and England.
Lowest, 28.8 in. and less, in a deep depression over Sweden.

Gradients very slight and variable in our Islands, very steep over Sweden, Denmark, the Sound and the Baltic.

Barometer rising on all our coasts; the change in the east of Scotland during the night has been rapid.

Highest, 48° at Scilly, 47° at Jersey, 45° at Lowest and Lambrooke.

TEMPERATURE

Lowest, (1) -12° at Haparanda, +21° at Helsingfors, 22° at Christianund; (2) 15° at Munich, 17° at Lyons and Belfast.

At Berlin it has risen to 34°, at Paris to 33°, at Aix it is 37°. In London after rising to 49° yesterday afternoon it fell briskly towards night, but had risen to 43° again at 8 a.m.

WIND

Blowing a fresh to strong gale from the NW² on the Norwegian coast and in the Skager Rack and Sound, a strong breeze from NW. in Holstein, and a SW¹ gale at Wisby.

The gales on our northern coasts have died down, and light NW¹ breezes are prevalent at our own stations.

WEATHER

Fine over Ireland and England, unsettled in Scotland (with snow in places) very rough in Norway, with snow or hail at all stations as well as at Berlin. Large quantities of snow and rain fell in the north of Scotland yesterday.

Brilliant Aurora was seen at Haparanda last night, and faint Aurora in Ireland.

SEA

High on the eastern shores of the North Sea, rather rough at Aberdeen, moderate to slight and decreasing on our coasts.

PROBABLE CHANGES IN SYSTEM NOW PREVALENT

As the new anticyclone spreads eastwards the weather is likely to become still quieter on our coasts.

Warning signals have therefore been lowered in the north-west and north today.

FORECASTS

For the 24 hours ending at NOON on 13TH FEB: 1891.

DISTRICTS.

FORECASTS.

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

NW² and N¹ breezes; some snow or sleet showers.

NW² to N¹ breezes, light; fair generally, cold at night.

DISTRICTS.

FORECASTS.

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

NW¹ breezes, light or moderate; fair as a whole, colder.

WARNINGS

Signals all lowered this morning.

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

YESTERDAY'S 2 P.M. REPORTS.

	BAR.	THER.		WIND		WEA.	SEA		BAR.	THER.		WIND		WEA.	SEA
		D.	W.	D.	F.					D.	W.	D.	F.		
Skudesnaes ...	29.59	41	40	2	0	T	4	Holyhead ...	30.13	48	45	SW	5	C	5
Sumburgh Head ...	29.56	35	34	2	0	T	4	Valencia ...	30.24	53	48	SW	6	Cm	6
Stornoway ...	29.49	35	35	NE	4	8	4	Scilly ...	30.36	51	49	WSEW	3	C	4
Aberdeen ...	29.57	53	48	SW	5	Cga	4	Jersey ...	30.46	44	42	SW	3	omg	3
Shields ...	29.88	50	47	SW	5	C	2	Dungeness ...	30.29	45	42	W	5	f	3
Ardrossan ...	29.85	48	47	WSEW	4	0	5	London ...	30.27	49	45	W	3	bc	3
Malin Head ...	29.72	48	47	SW	7	08	5	Yarmouth ...	30.35	47	44	W	4	bc	3
Mullaghmore ...	29.74	49	48	SW	7	T	6	Rocheport ...	30.49	31	31	N	2	f	3
Belmullet ...	29.90	49	49	SW	9	2	*								

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

Weather fair over the greater part of England and fine and bright over Spain the south of France, and the whole of central and eastern Europe. Dull elsewhere, with fog over the Netherlands and France, rain in the north of Scotland and snow over northern Russia, as well as at Peters. Heavy falls of rain and snow occurring later in the north of Scotland and the west of Norway, the largest amounts being 1.2 ins at Christiansund, 1.1 ins. at Wick, and 1.0 in. at Stornoway; showers occurring in the southwest of our Islands.

Temperature highest (1) 50° at San Fernando, Brindisi and Malta and 49° at Palma and Algiers; (2) 50° at Valencia Island and 49° at Naïm, Leith, Shields, Mullaghmore and Belmullet; above 40° in all but the southeastern parts of the United Kingdom. Lowest 4° at Kiev, 5° at Hermannstadt and Nicolaioff, 7° at Bracon and 8° at Munich and Odessa, below 20° in most parts of central and eastern Europe and below the freezing point over France and central Spain. Daily maxima exceeding 50° at many of our western and northern stations and reaching 55° at Aberdeen, but frost occurring in several parts of the Kingdom at night.

Wind SW^{ly} over our Islands and the greater part of northern Europe, but NE^{ly} or N^{ly} in the north of Scandinavia; strong to a gale in force in the north of Ireland and also over the south of Scandinavia, the Baltic and the Gulf of Finland. Light from the End or NEnd over Spain and the south of France, variable over Italy and Austria; S^{ly} in Algeria. Subsequently increasing to a gale over the northern parts of our Islands generally and shifting to the N^{ly} in the north of Scotland.

Barometer 30.3 ins. to 30.5 ins. and upwards in an anticyclone lying over the entire Sth half of Europe. Lowest 29.0 ins. and less in a well marked depression lying over central Sweden; small shallow disturbance shown over the N. of Scotland. Main depression subsequently increasing in depth and travelling Sth; Scotch disturbance also becoming more strongly marked & moving slowly End.

General remarks, 24 hours ending 8 am on 11th February

Weather fine over the greater part of central and southern Europe, but cloudy and misty in many parts of the United Kingdom. Dull over central and northern Russia; foggy over Denmark, the Netherlands and central France; rainy in the west of Norway; snow falling at the Scan. Rain falling later in the south of Ireland and the north of Scotland and snow at some of the Norwegian stations.

Temperature highest (1) 53° at Nemours, 50° at Brindisi, 48° at Malta, and 47° at Lescina; (2) 48° at Stornoway, 46° at Valencia Island, and 45° at Wick; above 40° in many of the western and northern parts of the United Kingdom. Lowest 4° at Hermannstadt, 5° at Odessa and Nicolaioff, 7° at Munich and 8° at Warsaw; below 20° in many parts of eastern and central Europe and below the freezing point over France and central Spain. Daily maxima above 45° over the greater part of the United Kingdom, but frost occurring over England at night.

Wind light to fresh from the SWnd over the northern half of our Islands and also over Denmark and north Germany; strong to a gale from the same quarter or from W. over Scandinavia and northern Russia. Light from the Snd or SEnd in Germany; and from the End in France; moderate from NE. in Spain and from N or NW in Italy, variable over the southern parts of England as well as in Austria and the south of Russia. Gale over northern Russia subsiding later but wind increasing considerably from the SWnd in the north and northwest of our Islands.

Barometer highest, 30.6 ins. and upwards in the south of Russia; 30.3 ins. and upwards in a large anticyclone extending from Russia across central Europe to England, the south of Ireland and the Bay of Biscay. Lowest 28.9 ins. and less in a deep depression lying over the north of Scandinavia. Depression subsequently moving eastwards but new disturbance beginning to approach the extreme north of our Islands from the Atlantic.

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 13TH FEBRUARY. 1891.

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

STATIONS.		YESTERDAY EVENING.					8 A.M. TO DAY.										PAST 24 HOURS.		
		BAROM.	TEMP.	WIND.		Weather.	BAROMETER.		SHADE TEMP.			WIND.		Weather.	Sea. (0 to 5.)	SHADE TEMP.		Amount of Rainfall.	
				Reading at 32° F. and Sea Level.	Dry.		Direc.	Force. (0 to 12.)	Reading at 32° F. and Sea Level.	Difference from 8 a.m. yesterday.	Dry.	Wet.	Difference from 8 a.m. yesterday.			Direc.	Force. (0 to 12.)		Max.	Min.
SCANDINAVIA.	Haparanda ...	29.52	-13	2	0	bc	29.64	+124	-12	-13	0	2	0	bc	*	14	-13	—	
	Hernösand ...	29.67	15	N	4	bc	29.84	+149	10	10	-12	2	0	bc	*	25	?	—	
	Stockholm ...	29.61	19	NW	3	0	29.87	+111	8	7	-25	2	0	bc	*	36	?	0.24	
	Wisby ...	29.63	27	NNW	9	5	29.89	+126	23	22	-14	N	6	bc	*	37	21	0.04	
	Bodö ...	29.63	24	NW	7	3	29.79	+124	25	22	+4	NNW	4	c	3	25	19	—	
	Christiansund	29.94	27	NNW	8	8	30.21	+147	25	24	+3	NNW	8	3	6	27	22	0.24	
	Skudesnaes ...	29.91	27	NW	1	bc	30.31	+143	26	24	-3	NNW	2	bc	3	?	23	—	
	Christiania Fjord (Færd)	29.97	27	NNW	6	bc	30.14	+122	24	20	-8	NNW	2	bc	1	32	24	—	
	Skagen (The Scaw)	30.00	30	N	6	bc	30.13	+122	29	25	-5	N	1	bc	3	34	28	—	
	Fanö ...	30.19	30	WSW	2	c	30.17	+131	27	27	-8	NW	2	bc	*	36	27	—	
BRITISH ISLANDS.	Sumburgh Head	30.11	30	NE	2	5	30.45	+135	27	26	-4	2	0	0	2	32	25	0.03	
	Stornoway ...	30.24	38	NW	4	0	30.40	+116	38	35	+1	2	4	0	4	40	32	0.03	
	Wick ...	30.18	35	N	2	0	30.50	+132	24	23	-6	W	1	bc	3	35	23	0.10	
	Nairn ...	30.21	42	WSW	1	c	30.48	+129	31	30	0	2	0	0	1	43	30	0.02	
	Aberdeen ...	30.23	38	WSW	3	bc	30.54	+129	32	31	0	NW	2	c	4	40	31	0.03	
	Leith ...	30.31	37	W	2	bc	30.53	+126	36	34	+8	ENE	2	bc	*	41	31	—	
	Shields ...	30.31	37	W	2	bc	30.46	+118	39	37	+5	NNE	4	c	4	45	31	—	
	Spurn Head ...	30.32	40	W	4	bc	30.41	+113	36	34	-2	NW	4	bc	4	45	35	—	
	York ...	30.35	39	W	1	bc	30.49	+117	35	33	0	NNW	1	bc	*	47	28	—	
	Loughborough	30.39	37	NE	1	c	30.48	+116	34	33	-3	NNW	1	bc	*	46	33	—	
GERMANY & HOLLAND.	Ardrossan ...	30.34	41	NNW	2	c	30.52	+123	37	35	+1	NE	1	om	1	46	35	—	
	Malin Head ...	30.37	43	NW	3	om	30.47	+117	40	39	-1	SSE	1	om	1	44	40	0.02	
	Mullaghmore ...	30.42	44	W	2	om	30.48	+113	43	40	+3	SEW	1	0	3	46	38	—	
	Belmullet ...	30.42	44	NNW	1	0	30.47	+106	46	45	+8	SEW	2	0	*	47	38	—	
	Donaghadee ...	30.40	43	NNW	2	c	30.51	+116	39	38	+3	NNW	2	c	*	52	32	—	
	Liverpool (Bidston)	30.40	40	W	2	c	30.57	+116	39	38	+1	NNW	2	c	2	44	38	—	
	Holyhead ...	30.41	42	N	1	bc	30.51	+115	41	40	-1	2	0	c	0	49	40	—	
	Parsonstown ...	30.44	43	2	0	bc	30.52	+111	40	38	+9	2	0	0	*	48	30	—	
	Valencia ...	30.44	47	2	1	om	30.52	+109	48	47	+10	SSE	2	om	2	51	38	0.01	
	Roche's Point...	30.52	46	NNW	1	bc	30.52	+111	44	42	+5	N	1	bc	2	52	37	—	
FRANCE AND BELGIUM.	Pembroke (St. Ann's Hd.)	30.44	42	N	2	bc	30.55	+116	42	40	-2	N	1	bc	0	47	39	—	
	Scilly ...	30.41	46	NNW	2	0	30.52	+116	44	41	-4	NNE	1	bc	4	48	40	—	
	Prawle Point ...	30.43	42	N	1	bc	30.53	+122	36	35	-6	N	2	bc	1	52	34	—	
	Jersey (St. Aubin's)	30.43	45	NNW	3	bc	30.53	+112	37	36	-10	NNW	2	om	2	49	33	0.03	
	Hurst Castle ...	30.41	42	NW	2	bc	30.51	+118	34	33	-7	NNW	2	bc	1	48	32	—	
	Dungeness ...	30.36	40	E	2	c	30.41	+116	32	32	-10	2	0	m	0	44	31	—	
	London ...	30.38	43	NW	1	c	30.47	+117	31	30	-12	NW	1	bc	*	46	30	—	
	Oxford ...	30.43	38	N	1	bc	30.50	+117	34	32	-5	NNW	1	bc	*	48	33	—	
	Cambridge ...	30.37	38	N	1	bc	30.45	+113	34	33	-6	NW	1	bc	*	48	31	—	
	Yarmouth ...	30.34	37	2	0	bc	30.38	+115	33	32	-5	NW	3	bc	3	41	30	—	
PENINSULA.	Cuxhaven ...	30.20	34	NW	4	0	30.16	+119	32	31	-4	NNE	4	0	*	36	30	—	
	Berlin ...	30.15	35	NW	4	c	30.16	+124	30	27	-4	NNE	2	0	*	39	28	—	
	Wiesbaden ...	*	*	*	*	*	30.20	+107	33	32	+1	SEW	1	0	*	36	32	—	
	Munich ...	30.30	27	SW	4	5	30.26	+105	26	26	+7	W	2	0	*	30	1	0.16	
	The Helder ...	30.35	35	W	1	c	30.26	+107	36	35	-1	NW	4	c	3	39	35	—	
	Brussels (9 a.m.)	30.39	37	2	1	bc	30.37	+113	32	31	-4	W	1	0	*	43	29	—	
	Cape Gris Nez	30.39	37	2	1	bc	30.38	+114	37	36	-4	N	4	m	4	43	34	—	
	Paris ...	30.38	37	2	1	bc	30.43	+106	31	31	-2	E	1	0	*	41	30	0.08	
	Brest ...	30.41	46	W	2	f	30.50	+109	39	37	-5	SSE	2	bc	2	52	32	0.04	
	Lorient ...	30.44	45	NNW	4	0	30.47	+102	35	34	-10	NNW	1	bc	4	46	34	—	
PENINSULA.	Rochefort ...	30.47	45	NNW	4	0	30.43	+107	39	39	+3	NNE	3	bc	*	46	30	—	
	Belfort ...	?	25	N	3	0	?	?	29	?	+2	W	4	bc	*	32	?	0.04	
	Lyons ...	30.47	29	E	1	5	30.39	+110	31	?	+4	N	1	0	*	34	27	—	
	Nice ...	30.18	42	SE	3	c	30.11	+115	39	38	+2	E	3	bc	1	52	36	—	
	Perpignan ...	30.39	45	NW	5	bc	?	+120	48	42	+7	NW	3	0	*	50	?	—	
	Biarritz ...	30.53	46	NNE	4	0	30.47	+105	44	40	+11	SW	3	0	2	48	?	—	

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

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

WEATHER CHARTS

for 8 a.m. on 13th February, 1891.

BAROMETER, WIND AND SEA.

EXPLANATION OF MAP

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

Changes since previous morning are stated in words.

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

→ forces above 10; → forces 8 to 10;

→ forces 5 to 7; → forces 1 to 4.

☉—dead calm.

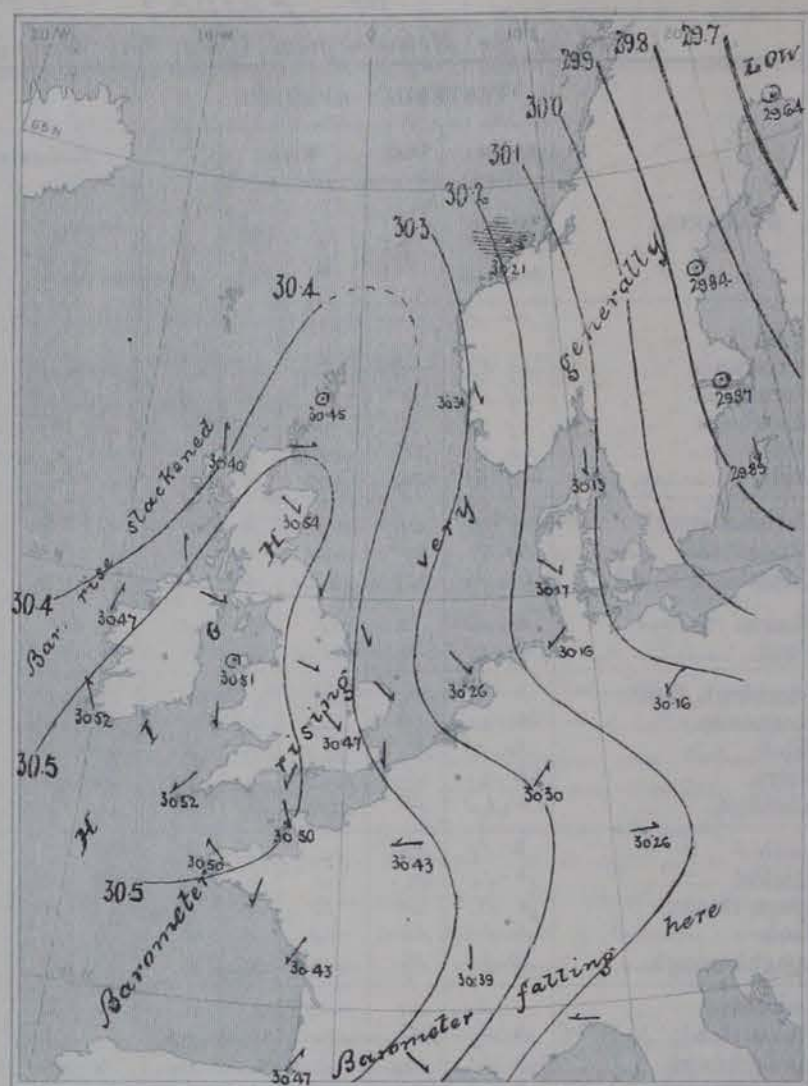
SEA DISTURBANCE—Where considerable, is shown thus—

☼ = Rough. ☼ = High.

MEAN HEIGHT OF THE BAROMETER

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

STATIONS.	MEAN READINGS.
Sumburgh Head	29.775
Stornoway	29.773
Wick	29.804
Nairn	29.814
Aberdeen	29.848
Leith	29.870
Shields	29.906
Spurn Head	29.934
York	29.939
Loughborough	29.963
Ardrossan	29.973
Mullaghnore	29.982
Donaghadee	29.984
Holyhead	29.911
Liverpool	29.934
Parsonstown	29.916
Valencia	29.919
Roche's Point	29.913
Pembroke	29.917
Silly	29.939
Prawle Point	29.936
Jersey	30.007
Hurst Castle	29.988
Dover	29.986
LONDON	29.980
Oxford	29.985
Cambridge	29.979
Yarmouth	29.961



GENERAL SITUATION AT 8 A.M.

PRESSURE

Highest, 30.5 in. and more, to 30.3 in. over the British Islands, France, Spain, and neighbouring parts of the Atlantic.
Lowest, 29.9 in. and less, over the Gulf of Bothnia and the Baltic, and about 30.1 in. over the Gulf of Genoa.
Gradient, slight over our Islands and France, moderate over the North Sea, Scandinavia, and the Baltic.
Barometer rising generally.

TEMPERATURE

Highest, 46° to 48° in the west of Ireland, 44° at Scilly, 43° at Lisbon, 41° at Holyhead.
Lowest, -12° at Haparanda, +8° at Stockholm, and 10° at Helsingfors; 26° at Munich, 29° at Belfast, 30° at Berlin, and 31° at Paris and in London.
 It has risen in Ireland, fallen elsewhere — rapidly in Sweden.
Sharp frost occurred on the ground over England during the night.

WIND

Very light generally; N^{ly} to NW^{ly} over the eastern parts of our area, S^{ly} in the extreme west, Calm over the Irish Sea and St. George's Channel. All the gales reported yesterday have died down.

WEATHER

Fine and dry at all but our extreme western stations, where it is dull, and in some localities raining.
 At many stations the sky is clear and bright, in several others fog or haze prevails.
 Slight rain or snow fell yesterday in the north and west, and local showers at some of the French and German stations.

SEA

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

PROBABLE CHANGES IN SYSTEM NOW PREVALENT

The barometer shows no tendency to fall in the west at present; the anticyclone is consequently spreading, and a continuation of rather cold quiet dry weather is indicated, with local fogs.

FORECASTS

For the 24 hours ending at NOON on 14TH FEB: 1891.

DISTRICTS.

FORECASTS.

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

Very light winds, fair generally, cold at night, hazy locally.
 N^{ly} airs and Calms; fair in day, cold and frosty at night, local fogs.

DISTRICTS.

FORECASTS.

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

Same as No 0 to 2.

S^{ly} winds, light, fair generally, cold at night

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 ...	30.09	28	26	NW	5	c	5		Holyhead ...	30.42	45	43	NW	2	c
Sumburgh Head ...	30.14	30	29	NE	1	g	3		Valencia ...	30.44	57	46	SE	2	bc
Stornoway ...	30.23	30	30	NW	4	c	4		Scilly ...	30.41	48	45	NNE	3	o
Aberdeen ...	30.22	30	30	NW	3	c	4		Jersey ...	30.41	49	47	NW	3	c
Shields ...	30.28	45	39	W	3	c	3		Dungeness ...	30.34	43	41	N	3	c
Ardrossan ...	30.31	44	41	W	2	c	2		London ...	30.37	46	43	N	2	o
Malin Head ...	30.37	42	40	NW	2	o	2		Yarmouth ...	30.32	41	39	N	3	bc
Mullaghmore ...	30.42	45	42	W	3	om	3		Rocheport ...	30.49	46	41	NW	4	c
Belmullet ...	30.44	47	42	NW	2	c	*								?

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

Weather fine over Ireland, England, Denmark, and the greater part of southern and eastern Europe. Dull elsewhere, with snow or sleet over Central Scotland, Scandinavia, North Germany, the Baltic and the Gulf of Finland. Snow falling during day in the north of Scotland and slight rain at some of the French stations.

Temperature highest 51° at Tunis and Malta, 50° at Khindisi, and 49° at Algiers and La Calle; above 40° in the west and south of England. Lowest (1) -12° F. at Bazarunda, +1° at Uleaborg, 7° at Krasnoyarsk, and 20° at Archangel; (2) 2° at Hermannstadt, 4° at Nicolaiiff, 6° at Kharkov, and 10° at Kiev; below the freezing over Central Ireland and the north of Scotland, as well as over France, central Spain and the north of Italy. Daily maxima below 40° in the north of Scotland, but a little above 50° at many of the Irish stations.

Winds light from the NWnd over the greater part of our Islands and strong to a gale from the same quarter in Norway and Denmark. Strong to a gale from SW over North Germany and the Baltic, and from the Eth or NEth over the Gulf of Finland. Light and variable over France and Austria; NE over Spain; NW over Italy and Tunis. Gale in Norway subsiding later; no important change occurring elsewhere.

Barometer highest 30.4 ins. to 30.5 ins. in an anticyclone extending from the Atlantic over France, Spain, and the west and south of Ireland and also in another system lying over the Black Sea and the south of Russia. Lowest 29.3 ins. to 29.8 ins. and less in a deep depression having its centre near Stockholm. 30.1 ins. and less, in a shallow system lying over Sicily. No important change occurring over Western Europe during 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 Saturday 14th February.

1891.

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.			
	Reading at 32° F. and Sea Level.	Dry.	Dir.	Force. (0 to 12.)		Reading at 32° F. and Sea Level.	Difference from 8 a.m. yesterday.	Dry.	Wet.	Difference from 8 a.m. yesterday.	Dir.	Force. (0 to 12.)			Max.	Min.	Amount of Rainfall.	
SCANDINAVIA.	Haparanda ...	29.86	8	NW	4	b	29.96	+0.32	-2	-2	+10	X	0	5	*	10	-17	—
	Hernösand ...	30.03	19	NW	4	b	30.12	+0.28	13	12	+3	X	0	5	*	25	7	—
	Stockholm ...	30.23	14	W	2	b	30.33	+0.46	10	9	+2	N	2	5	*	21	-11	—
	Wisby ...	30.19	27	N	6	bc	30.28	+0.39	26	23	+3	NNW	4	5	*	28	19	—
	Bodö ...	30.04	25	W	4	bc	29.63	-0.16	24	?	-1	ENE	4	5	2	25	21	—
	Christiansund	30.28	30	W	7	5	29.73	-0.48	37	35	+12	SW	4	5	5	37	28	0.39
	Skudesnaes ...	30.12	27	2	0	0	30.12	-0.19	39	39	+13	2	4	7	4	37	25	—
	Christiania Fjord (Færdø)	30.43	28	NNW	2	b	30.28	+0.14	28	28	+4	SW	5	5	3	30	?	—
	Skagen (The Scaw)	30.47	28	N	1	b	30.40	+0.27	28	28	-1	WSW	0	0	2	30	27	—
	Fanö ...	30.54	25	2	0	b	30.52	+0.30	31	31	+4	SW	2	c	*	32	25	—
BRITISH ISLANDS.	Sumburgh Head	30.19	34	SE	2	0	30.07	-0.38	46	45	+19	NNW	4	0	5	46	27	0.24
	Stornoway ...	30.28	43	SW	6	0	30.29	-0.11	47	46	+9	W	4	0	4	47	35	0.02
	Wick ...	30.25	40	2	0	0	30.26	-0.24	43	41	+19	SW	3	0	3	44	23	0.03
	Nairn ...	30.34	43	2	0	c	30.31	-0.17	46	44	+15	WSW	1	c	1	46	29	—
	Aberdeen ...	30.46	36	2	0	og	30.37	-0.17	43	41	+11	SW	1	c	3	43	32	0.02
	Leith ...	30.51	40	SW	1	b	30.44	-0.09	45	44	+9	SW	2	c	*	45	34	0.01
	Shields ...	30.55	35	2	0	0	30.45	-0.01	42	40	+3	WSW	3	c	2	43	33	0.03
	Spurn Head ...	30.61	38	2	0	c	30.51	+0.10	37	35	+1	SW	3	0	3	42	35	—
	York ...	30.61	40	SE	1	0	30.56	+0.07	40	38	+2	2	1	0	*	43	33	—
	Loughborough	30.62	36	2	0	c	30.62	+0.14	37	36	+3	SW	2	of	*	44	34	—
GERMANY & HOLLAND.	Ardrossan ...	30.51	42	ENE	1	dm	30.47	-0.05	46	46	+9	WSW	3	c	2	46	36	0.04
	Malin Head ...	30.41	45	SW	4	of	30.44	-0.03	44	44	+4	SW	2	0	1	45	39	0.02
	Mullaghmore ...	30.51	45	2	0	pm	30.52	+0.04	46	44	+3	SW	2	0	2	47	43	0.02
	Belmullet ...	30.48	48	WSW	1	0	30.50	+0.02	46	45	0	SW	1	0	*	48	42	0.04
	Donaghadee ...	30.54	44	SW	3	b	30.53	+0.02	39	39	0	SW	3	bc	1	46	39	0.02
	Liverpool (Bidston)	30.60	41	SE	1	0	30.58	+0.07	42	41	+3	2	1	0	2	44	38	0.03
	Holyhead ...	30.58	44	2	0	omg	30.57	+0.06	44	44	+3	SW	3	dmg	2	47	41	0.22
	Parsonstown ...	30.58	47	2	0	0	30.56	+0.04	46	45	+6	2	0	0	*	48	39	0.03
	Valencia ...	30.57	49	SE	2	om	30.55	+0.03	48	46	0	SE	5	og	0	50	46	0.05
	Roche's Point...	30.63	47	SW	2	0	30.61	+0.09	47	45	+3	SW	3	og	3	49	43	—
FRANCE AND BELGIUM.	Pembroke (St. Ann's Hd.)	30.61	44	NW	2	b	30.64	+0.09	45	44	+3	SW	2	cg	1	48	41	0.01
	Scilly ...	30.58	44	NE	2	c	30.66	+0.14	45	43	+1	SE	4	bc	4	48	41	—
	Prawle Point ...	30.62	42	NNE	1	b	30.69	+0.16	42	40	+6	SW	2	cm	1	50	35	—
	Jersey (St. Aubin's)	30.59	43	NNW	3	bm	30.72	+0.22	36	34	-1	NNW	1	cwm	1	48	32	—
	Hurst Castle ...	30.61	40	NE	2	bcn	30.69	+0.18	40	38	+6	SW	4	c	1	45	33	—
	Dungeness ...	30.59	38	NNE	5	bc	30.68	+0.27	36	33	+4	SW	4	c	2	44	31	—
	London ...	30.64	38	NE	3	0	30.68	+0.21	36	34	+5	WSW	1	cog	*	45	30	—
	Oxford ...	30.66	35	NNE	1	bc	30.67	+0.17	38	35	+4	SW	2	c	*	48	34	—
	Cambridge ...	30.65	36	N	1	0	30.65	+0.20	36	35	+2	SW	1	0	*	46	31	—
	Yarmouth ...	30.60	37	NE	1	bc	30.63	+0.25	34	32	+1	WSW	3	cog	3	38	30	0.02
GERMANY & HOLLAND.	Cuxhaven ...	30.40	29	N	4	m	30.61	+0.45	26	25	-6	SW	2	m	*	?	24	—
	Berlin ...	30.40	28	N	3	b	30.65	+0.49	19	18	-11	NW	2	b	*	30	18	—
	Wiesbaden ...	*	*	*	*	*	30.78	+0.48	20	19	-13	N	1	0	*	37	19	—
	Munich ...	30.24	21	SW	7	5	30.67	+0.41	12	12	-14	W	4	b	*	30	12	0.16
	The Helder ...	30.60	33	N	1	b	30.65	+0.39	34	33	-2	SW	2	c	2	36	32	—
	Brussels (9 a.m.)	*	*	*	*	*	30.73	+0.36	30	29	-2	SW	1	c	*	40	28	—
	Cape Gris Nez	30.56	33	NE	4	b	30.69	+0.31	31	29	-6	E	3	bc	2	41	31	—
	Paris ...	30.54	38	N	2	0	30.73	+0.30	26	26	-5	NE	1	b	*	?	25	—
	Brest ...	30.57	44	E	1	b	30.65	+0.15	38	37	-1	E	2	b	3	54	36	?
	Lorient ...	30.54	45	ENE	2	b	30.66	+0.19	35	33	0	E	3	b	2	50	34	—
FRANCE AND BELGIUM.	Rochefort ...	30.49	41	NE	3	b	30.60	+0.17	32	31	-7	ENE	4	b	*	48	23	—
	Belfort ...	?	28	W	1	bc	?	?	24	?	-5	W	1	b	*	40	21	—
	Lyons ...	30.49	34	N	2	b	30.57	+0.18	24	21	-7	N	4	b	*	39	24	—
	Nice ...	30.04	44	2	0	b	30.19	+0.08	37	?	-2	N	3	b	4	52	36	—
	Perpignan ...	30.32	49	NNW	4	c	30.37	?	42	34	-6	W	3	b	*	57	41	—
	Biarritz ...	30.44	48	NE	3	0	30.52	+0.05	33	33	-11	ENE	3	b	2	50	30	0.08
	Corunna ...	*	*	*	*	*	30.27	-0.07	47	39	+4	NNE	4	b	2	57	43	—
	Lisbon ...	30.29	33	N	3	b	?	?	?	?	?	?	?	?	?	?	?	—

WEATHER CHARTS

for 8 a.m. on 14th February, 1891.

BAROMETER, WIND AND SEA.

EXPLANATION OF MAP

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

Changes since previous morning are stated in words.

WIND—Arrows show the prevalent winds. They fly with the wind and

their barbs and feathers refer to force thus—

— forces above 10; — forces 8 to 10;

— forces 5 to 7; — forces 1 to 4.

□ = dead calm.

SEA DISTURBANCE—Where considerable, is shown thus:

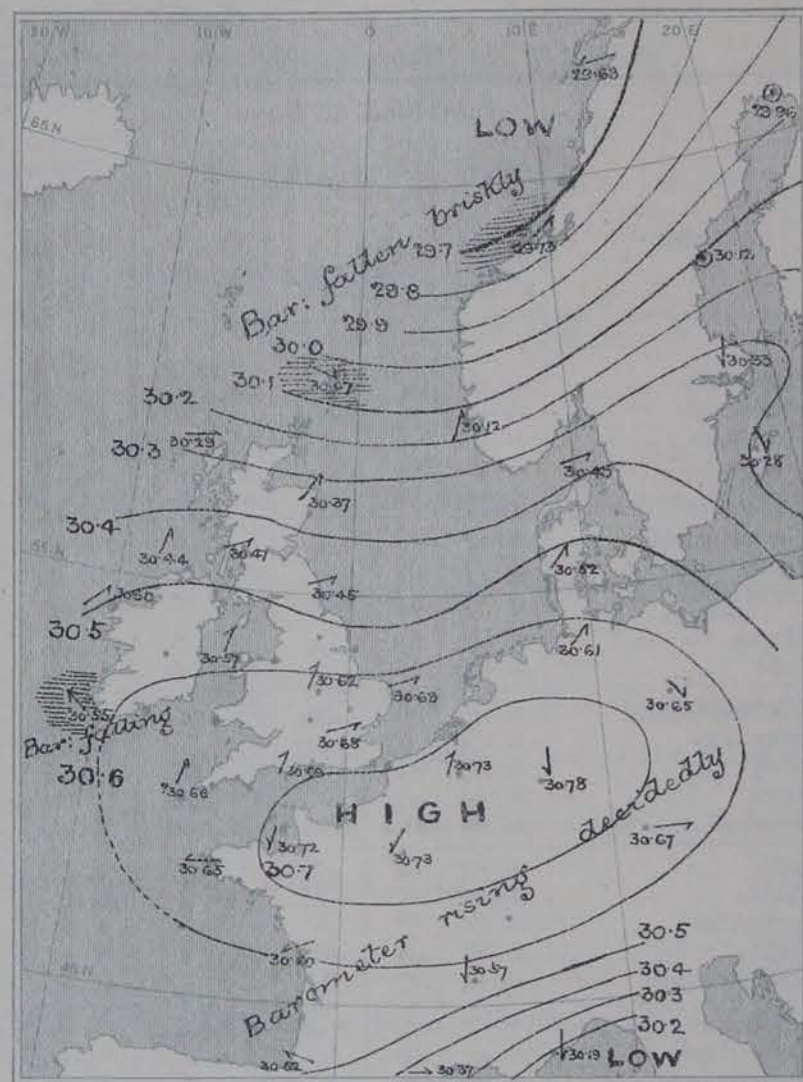
— = Rough. — = High.

MEAN HEIGHT OF THE BAROMETER

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

During the 20 Years: 1871—1890.

STATIONS.	MEAN READINGS.
Sumburgh Head	29.775
Stornoway	29.773
Wick	29.801
Nairn	29.811
Aberdeen	29.848
Leith	29.870
Shields	29.906
Spurn Head	29.934
York	29.939
Loughborough	29.963
Ardrossan	29.873
Mullaghmore	29.842
Donaghadee	29.884
Holyhead	29.914
Liverpool	29.934
Parsonstown	29.946
Valencia	29.919
Roche's Point	29.916
Pembroke	29.917
Sally	29.959
Prawle Point	29.993
Jersey	30.007
Hurst Castle	29.986
Dover	29.985
LONDON	29.989
Oxford	29.985
Cambridge	29.979
Yarmouth	29.964



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

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

WEATHER is shown by letters of the Beaufort Scale.

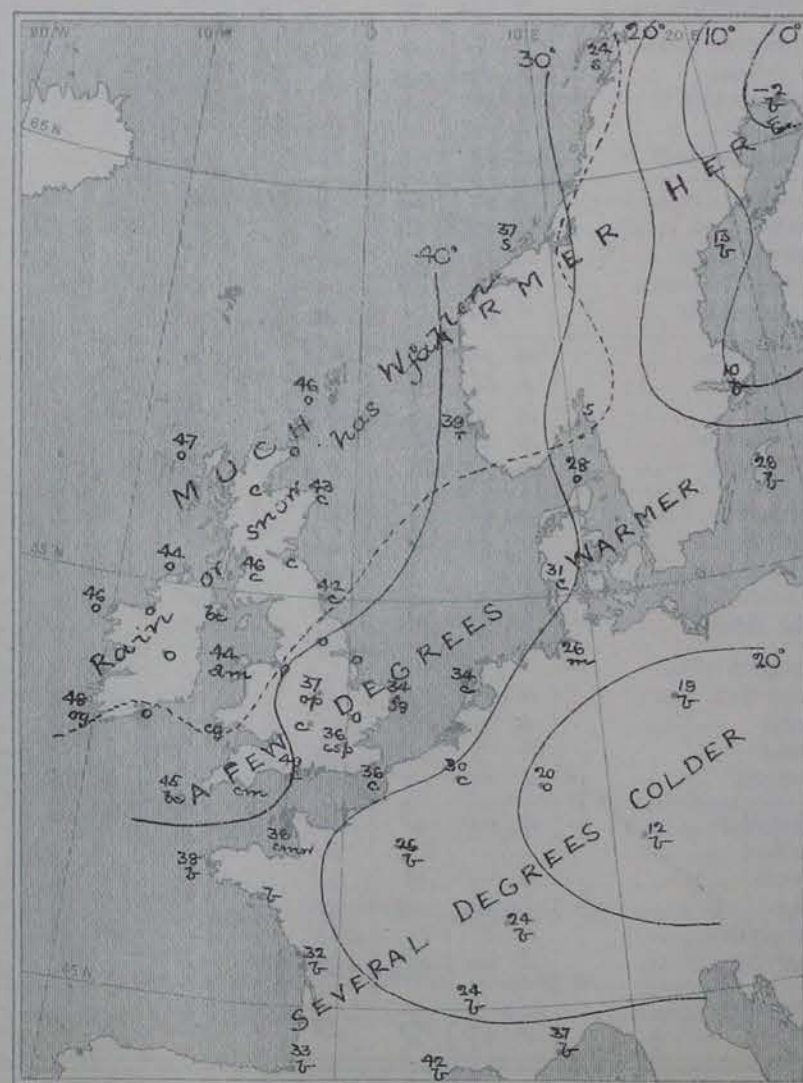
RAINFALL—A dotted line separates the districts in which rain has fallen from those where there has been none. Falls of 0.5 in. or more are quoted in figures.

MEANS OF TEMPERATURE IN SHADE, AND RAINFALL.

(For the month of February.)

STATIONS.	TEMPERATURE.				RAINFALL. (Inches.)
	Daily Max.	Daily Min.	at 8 a.m.		
			Dry.	Wet.	
Sumburgh Head.....	42.4	34.5	38.5	37.4	3.19
Stornoway.....	43.5	34.6	39.1	38.1	3.86
Wick.....	43.1	33.2	38.1	36.7	2.04
Nairn.....	43.4	31.4	37.1	35.4	1.48
Aberdeen.....	43.2	33.8	37.3	35.7	2.35
Leith.....	43.7	34.5	38.6	37.1	1.45
Shields.....	43.8	35.1	38.6	37.3	1.50
Spurn Head.....	42.8	35.5	38.4	37.6	1.36
York.....	44.6	33.9	37.5	36.4	1.70
Loughborough.....	45.3	33.9	37.5	36.4	1.78
Ardrossan.....	44.6	36.3	39.4	38.2	3.04
Mullaghmore.....	46.6	38.6	42.0	40.3	2.80
Donaghadee.....	45.6	38.9	40.3	39.3	2.42
Holyhead.....	45.5	38.7	41.5	40.1	2.60
Liverpool.....	44.5	36.2	38.9	37.3	1.69
Parsonstown.....	46.9	35.6	39.4	38.1	2.20
Valencia.....	49.7	40.7	44.6	42.9	4.95
Roche's Point.....	48.4	39.6	43.1	41.6	4.43
Pembroke.....	45.5	39.4	42.1	40.0	2.82
Sally.....	43.9	42.8	45.0	44.4	2.71
Prawle Point.....	46.8	33.1	41.5	40.5	2.02
Jersey.....	46.9	39.3	42.3	41.0	2.55
Hurst Castle.....	45.7	36.7	40.3	39.3	2.30
Dover.....	44.4	36.1	39.2	38.1	1.95
LONDON.....	45.8	35.1	38.6	37.4	1.73
Oxford.....	45.0	34.9	37.9	36.8	1.92
Cambridge.....	45.5	32.8	37.3	36.2	1.46
Yarmouth.....	42.6	34.5	38.2	37.3	1.82

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



GENERAL SITUATION AT 8 A.M.

PRESSURE

Highest 30.7 ins. and more to 30.5 ins. over Germany, France, England and Ireland.
 Lowest 29.7 ins. and less in the northwest of Norway; 30.3 ins. and less in the south of Portugal; 30.2 ins. and less over the Gulf of Genoa.
 Gradients somewhat steep over Norway, moderate over Scotland, slight over the more southern countries, steep locally on the SE of France.
 Barometer rising a little in Scotland, but beginning to fall somewhat decidedly at Valencia Island.

TEMPERATURE

Highest 48° at Valencia Island, 47° at Lisbon, Roches Point and Stormoway, 46° at Larnough H., 44° at Holyhead.
 Lowest (1) 2.5° at Haparanda, 13° at Stockholm, 13° at Helsingfors, (2) 12° at Munich, 19° at Berlin, 20° at Wiesbaden & 22° at Paris.
 In London the thermometer, after falling to 35° in the shade and 22° on the grass last night, had risen to 38° at 8 a.m.

WIND

(1) Moderate W² in Scotland, fresh SW⁴ in the west of Norway, but E² at Oslo; (2) SW² to S², and moderates, over England and Ireland generally, but SE², strong, at Valencia Island. (3) Over the Bay of Biscay there is a light breeze from E, while at Nice there is a moderate gale from N.

WEATHER

Fair over the greater part of our Islands, very fine over France. On our western and northern coasts it is dull, and in the west of Norway rain and snow is falling. A few flakes of snow are falling in London also, and the appearance of the sky is not settled. Rain fell yesterday at all the Irish & Scotch stations.

SEA

Rather rough in the north, moderate at Sully, slight or smooth elsewhere.

PROBABLE CHANGES IN SYSTEM NOW PREVALENT

It is impossible to say at present what will be the effect of the incoming depression in the far W, as nothing is yet known of its size and depth. Rain and strong winds are likely, however, at our western stations at all events.

FORECASTS

For the 24 hours ending at NOON on 15TH FEBRUARY 1891.

DISTRICTS.

FORECASTS.

- | | | |
|---|------------------|---|
| 0 | SCOTLAND NORTH | Wind backing to S ² again, with changeable, unsettled weather. |
| 1 | SCOTLAND EAST | |
| 2 | ENGLAND N.E. | S ² winds, freshening; fair to unsettled. |
| 3 | ENGLAND EAST | |
| 4 | MIDLAND COUNTIES | S ² and varying winds; weather uncertain at present, but likely to become unsettled. |
| 5 | ENGLAND SOUTH | |

DISTRICTS.

FORECASTS.

- | | | |
|----|---------------|---|
| 6 | SCOTLAND WEST | Same as N ^o 0 |
| 7 | ENGLAND N.W. | |
| 8 | ENGLAND S.W. | S ² winds, increasing; with rain. |
| 9 | IRELAND NORTH | |
| 10 | IRELAND SOUTH | SE ² and S ² winds, becoming strong; rainy. |
| | | |

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.

	THER: WIND								THER: WIND						
	BAR:	D.	W.	D.	F.	WEA.	SEA		BAR:	D.	W.	D.	F.	WEA.	SEA
Skudesnaes ...	30.46	30	28	NNW	2	C	3	Holyhead ...	30.55	46	44	2	0	C	0
Sumburgh Head ...	30.44	32	29	SE	1	0	2	Valencia ...	30.57	49	49	SE	2	7m	2
Stornoway ...	30.54	40	40	SW	6	0	6	Scilly ...	30.56	48	44	NE	2	C	4
Aberdeen ...	30.54	37	33	S	2	0	4	Jersey ...	30.57	47	43	NE	3	6m	3
Shields ...	30.57	40	39	E	3	C	4	Dungeness ...	30.51	44	40	NNE	4	5	2
Ardrossan ...	30.56	40	38	ENE	1	0	1	London ...	30.56	45	41	NE	2	C	8
Malin Head ...	30.42	43	41	S	5	0	2	Yarmouth ...	30.54	38	36	NE	4	5	4
Mullaghmore ...	30.51	45	43	N	2	0	2	Rochefort ...	30.48	42	41	NE	4	6	?
Belmullet ...	30.50	47	47	SW	1	0	*								

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

Weather fine over the greater part of southwestern, western and northern Europe as well as in Algeria, but dull in the extreme west and northwest of our Islands, with rain at Malin Head. Dull and unsettled over the eastern and central countries, and also in Italy, with snow in several places and rain at Palermo. Cloudy rainy weather extending later over all the more western and northern parts of the United Kingdom.

Temperature highest (1) 51° at Algiers and Tunis 50° at Brindisi and Malta, 49° at San Fernando, and 48° at Corunna and Perpignan; (2) 48° at Valencia Island, 46° at Belmullet, and 44° at Roche's Point and Sully; above 40° at most of our western stations. Lowest -12° at Haparanda -8° at Uleaborg, -1° at Kuopio, and +8° at Hangö, Helsingfors and Stockholm; below 20° at most of the Swedish and Russian stations, and below the freezing point over the greater part of the Continent as well as in the north of Scotland and the southeast of England. Considerable rise taking place later in the extreme north of our Islands.

Wind light to fresh from the N^W or NW^W over a considerable portion of our Islands and the Continent, but NE^W in Spain and S^W in the extreme west of the United Kingdom, as well as over the central and southern parts of Russia. SW^W breezes setting in later over all the more western and northern parts of the United Kingdom and blowing strongly in the Hebrides. Wind veering to the NE^W in the south and southeast of England.

Barometer highest 30.4 ins. to 30.5 ins. and more in an anticyclone covering our Islands, the Bay of Biscay the west of France and the greater part of Spain. Lowest 29.3 ins. and less in a depression lying over the north of Russia; 30.1 ins. and less in a shallow area lying over Italy and Turkey. Depression approaching the north of our Islands later and barometer falling somewhat decidedly in Scotland and the north of Ireland.

EXPLANATION OF COLUMNS GIVEN ON PAGE 1.

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

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

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

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

DAILY WEATHER REPORT.

for SUNDAY 15TH FEBRUARY. 1891.

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.			
			Direc.	Force. (0 to 12.)			Reading at 32° F. and Sea Level.	Difference from 8 a.m. yesterday.	Dry.	Wet.	Difference from 8 a.m. yesterday.	Direc.	Force. (0 to 12.)			Max.	Min.	Amount of Rainfall.	
SCANDINAVIA.	Haparanda ...	29.36	17	SW	4	8	29.42	-0.04	8	8	+10	2	0	bc	*	18	+	0.16	
	Hernösand ...	29.53	24	SW	2	8	29.70	-0.42	37	37	+24	2	0	P	*	?	9	0.08	
	Stockholm ...	29.84	27	SW	4	8	29.82	-0.01	40	36	+30	W	2	bc	*	?	9	0.04	
	Wishby ...	29.98	31	SW	6	8	29.86	-0.42	37	36	+11	WNW	4	bc	*	?	23	—	
	Bodö ...	29.76	27	SW	8	7	29.53	-0.04	37	33	+13	W	6	o	3	27	23	0.39	
	Christiansund	29.86	43	SW	5	7	29.59	+0.26	43	41	+6	WNW	8	m	6	43	37	0.32	
	Skudesnaes ...	30.19	42	WNW	5	0	30.28	+0.16	41	41	+2	WNW	2	o	3	43	39	—	
	Christiania Fjord (Færdar)	29.50	39	W	4	bc	30.04	-0.24	41	39	+13	WNW	3	c	2	?	?	—	
	Skagen (The Seaw)	29.59	40	NW	6	6	30.07	-0.33	39	38	+11	NW	3	bc	3	?	28	0.08	
	Fanö ...	30.30	36	W	6	c	30.31	-0.21	37	36	+6	WNW	5	c	*	37	31	—	
BRITISH ISLANDS.	Sumburgh Head	30.19	46	W	4	0	30.22	+0.15	46	45	0	W	3	o	4	47	43	0.01	
	Stornoway ...	30.31	46	SW	4	bc	30.28	-0.01	51	53	+4	SW	6	o	5	51	43	0.01	
	Wick ...	30.34	46	NW	1	c	30.33	+0.07	46	44	+2	NW	1	o	0	49	39	—	
	Nairn ...	30.44	48	WNW	2	c	30.32	+0.01	48	44	+4	SW	3	bc	2	53	43	—	
	Aberdeen ...	30.42	46	SW	2	o	30.39	+0.02	36	35	-1	W	1	bc m	2	52	36	—	
	Leith ...	30.46	45	SW	1	c	30.47	+0.03	46	44	+1	W	1	cm	*	51	43	—	
	Shields ...	30.50	47	WNW	2	c	30.51	+0.06	44	42	+2	SW	2	c	2	48	40	—	
	Spurn Head ...	30.52	42	W	3	cm	30.53	+0.04	41	40	+4	WNW	2	bc m	2	43	36	—	
	York ...	30.52	45	W	1	o	30.56	0.0	41	41	+1	W	1	bc	*	50	37	—	
	Loughborough	30.59	46	W	2	o	30.61	-0.01	38	37	+1	WNW	1	bc w	*	48	37	—	
GERMANY & HOLLAND.	Ardrossan ...	30.49	46	WNW	2	o	30.49	+0.02	44	43	-2	S	3	bc	2	50	43	—	
	Malin Head ...	30.46	47	SW	2	o	30.44	0.0	39	38	-5	S	2	bc	2	48	39	—	
	Mullaghmore ...	30.48	50	SW	3	c	30.45	-0.07	43	40	-3	SE	4	bc m	3	52	42	—	
	Belmullet ...	30.46	47	SW	3	o	30.41	-0.09	44	43	-2	SW	3	bc	*	48	43	—	
	Donaghadee ...	30.53	45	WNW	3	bc	30.52	-0.01	35	35	-4	SW	3	m	0	50	33	—	
	Liverpool (Bidston)	30.59	41	W	3	c	30.61	+0.03	39	38	-3	SE	1	bc	2	47	38	—	
	Holyhead ...	30.57	45	SW	4	cm g	30.57	0.0	41	41	-3	S	3	bc w	3	47	41	0.02	
	Parsonstown ...	30.53	45	2	0	bc	30.52	-0.04	39	37	-7	SE	1	bc	*	51	37	—	
	Valencia ...	30.53	48	SE	5	cm	30.46	-0.09	48	46	0	SE	6	bc m	6	51	41	—	
	Roche's Point...	30.59	47	SW	3	bc	30.56	-0.05	47	44	0	SW	4	bc	4	50	40	—	
FRANCE AND BELGIUM.	Pembroke (St. Ann's Hd.)	30.63	44	SW	2	bc	30.62	-0.02	43	41	-2	S	2	bc w	1	48	42	—	
	Scilly ...	30.60	45	SE	3	bc	30.57	-0.09	45	41	0	SE	4	bc	3	49	41	—	
	Prawle Point ...	30.68	42	SW	1	bc	30.66	-0.03	41	39	-1	SW	1	c	0	46	39	—	
	Jersey (St. Aubin's)	30.69	39	ENE	2	bc m	30.68	-0.04	35	32	-1	SE	2	bc w	2	44	29	—	
	Hurst Castle ...	30.67	42	SW	2	cm g	30.66	-0.03	41	40	+1	WNW	1	cm	0	45	39	—	
	Dungeness ...	30.63	40	SW	4	o	30.61	-0.07	39	39	+2	WNW	2	o	1	40	34	—	
	London ...	30.65	42	SW	2	c	30.63	-0.05	41	40	+5	WNW	1	o	*	45	36	—	
	Oxford ...	30.65	45	SW	2	o	30.64	-0.03	38	37	0	SW	1	bc	*	46	37	—	
	Cambridge ...	30.61	40	SW	1	o	30.61	-0.04	42	41	+6	W	1	c	*	45	35	—	
	Yarmouth ...	30.56	41	W	2	cd	30.57	-0.06	40	39	+6	W	2	cf	2	41	33	0.04	
GERMANY & HOLLAND.	Cuxhaven ...	30.52	34	WNW	5	7	30.42	-0.19	34	33	+8	W	2	bc	*	36	?	0.16	
	Berlin ...	30.58	27	SW	4	o	30.38	-0.27	33	32	+14	W	5	o	*	34	19	0.04	
	Wiesbaden ...	*	*	*	*	*	30.65	-0.13	28	25	+8	N	1	o	*	32	?	—	
	Munich ...	30.70	*	SE	1	bc	30.63	-0.04	14	13	+2	SE	3	o	*	21	3	—	
	The Helder ...	30.57	27	SW	2	7	30.54	-0.11	37	?	+3	W	1	f	2	37	30	0.08	
	Brussels (8 a.m.)	30.63	*	*	*	*	30.63	-0.10	33	?	+3	SW	3	o	*	37	30	—	
	Cape Gris Nez	30.63	27	W	4	bc	30.60	-0.09	40	39	+9	SW	1	m	2	?	30	0.04	
	Paris ...	30.72	33	SE	1	bc	30.69	-0.04	30	29	+4	SE	1	o	*	40	25	—	
	Brest ...	30.58	46	S	2	bc	30.62	-0.03	36	33	-2	ENE	4	bc	3	50	32	—	
	Lorient ...	30.63	39	ENE	2	bc	30.63	-0.03	33	?	-2	E	3	bc	2	45	30	—	
FRANCE AND BELGIUM.	Rochefort ...	30.58	39	ENE	5	bc	30.57	-0.03	30	28	-2	ENE	4	bc	*	45	21	—	
	Belfort ...	?	28	SW	2	bc	?	?	24	?	0	SW	2	bc	*	39	19	—	
	Lyons ...	30.63	29	N	3	bc	30.58	+0.01	22	18	-2	WNW	1	bc	*	34	21	—	
	Nice ...	30.37	38	E	6	bc	30.35	+0.16	33	27	-4	NE	4	bc	4	45	30	—	
	Perpignan ...	30.44	43	N	2	bc	30.50	+0.13	27	26	-13	NW	2	bc	*	53	27	—	
	Biarritz ...	30.50	43	E	3	bc	30.45	-0.07	28	28	-5	SE	4	bc	1	48	27	—	
	Corunna ...	*	*	*	*	*	30.38	+0.02	44	39	+11	ENE	2	bc	4	63	?	—	
	Lisbon ...	30.25	56	NW	4	bc	30.36	+0.09	48	40	-4	NW	4	bc	2	61	43	—	

WEATHER CHARTS

for 8 a.m. on 15th February, 1891.

BAROMETER, WIND AND SEA.

EXPLANATION OF MAP

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

Changes since previous morning are stated in words.

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

→ = forces above 10; → = forces 8 to 10;
→ = forces 5 to 7; → = forces 1 to 4.

○ = dead calm.

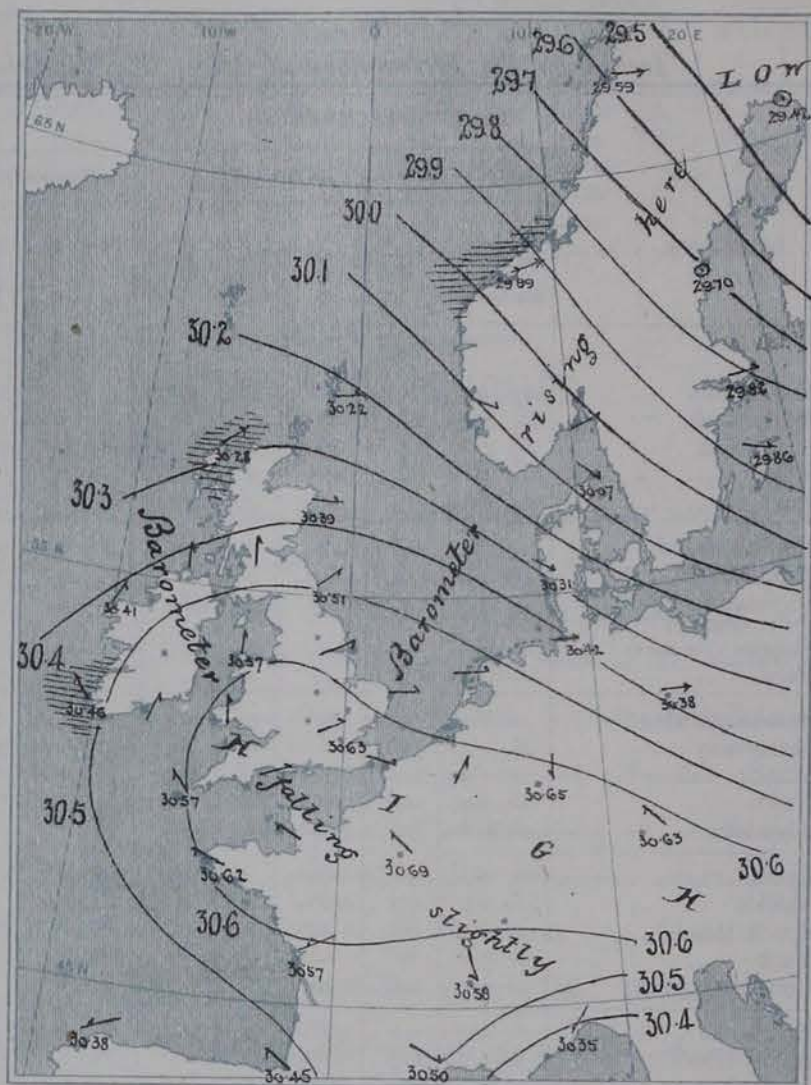
SEA DISTURBANCE—Where considerable, is shown thus:

▨ = Rough. ▨ = High.

MEAN HEIGHT OF THE BAROMETER

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

STATIONS.	MEAN READINGS.
Sumburgh Head	29.775
Stornoway	29.773
Wick	29.804
Nairn	29.814
Aberdeen	29.818
Leith	29.870
Shields	29.906
Sparn Head	29.934
York	29.939
Loughborough	29.963
Ardrossan	29.873
Mullaghmore	29.812
Donaghadee	29.884
Holyhead	29.914
Liverpool	29.934
Parsonstown	29.916
Valencia	29.919
Roche's Point	29.916
Pembroke	29.917
Silly	29.950
Prawle Point	29.993
Jersey	30.007
Hurst Castle	29.986
Dover	29.985
LONDON	29.980
Oxford	29.985
Cambridge	29.979
Yarmouth	29.964



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

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

WEATHER is shown by letters of the Beaufort Scale.

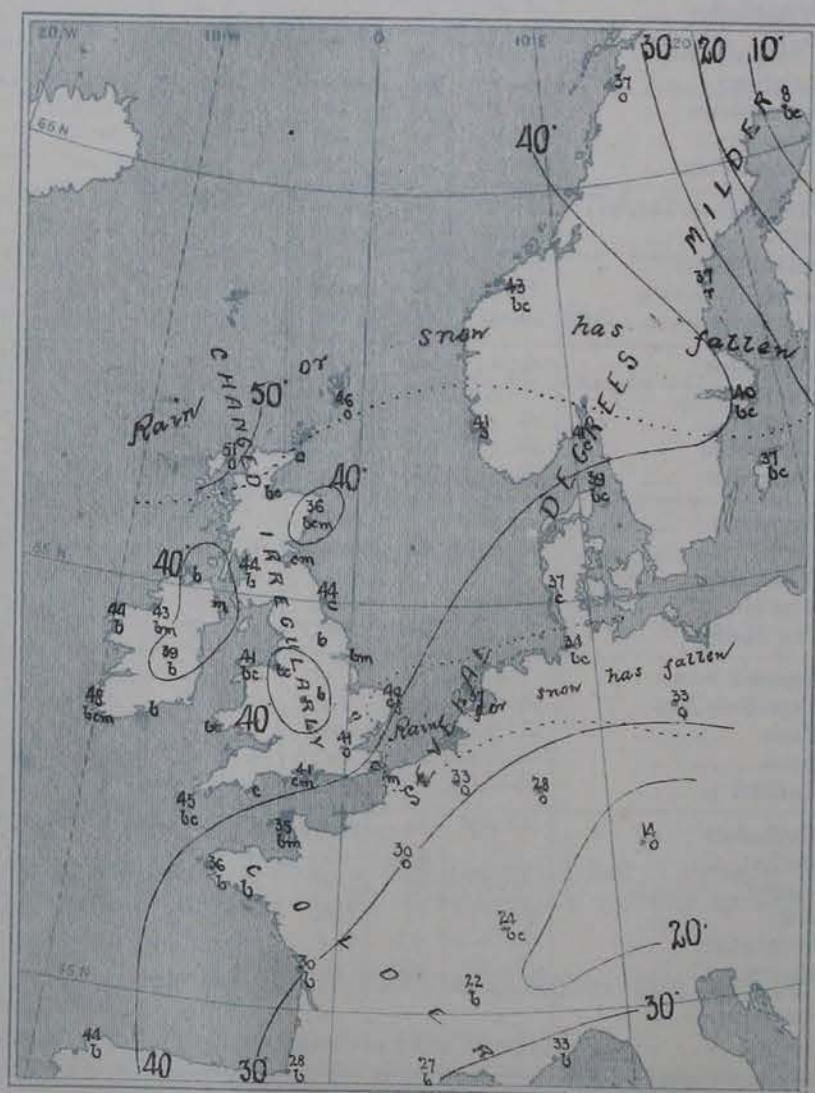
RAINFALL—A dotted line separates the districts in which rain has fallen from those where there has been none. Falls of 0.5 in. or more are quoted in figures.

MEANS OF TEMPERATURE IN SHADE, AND RAINFALL.

(For the month of February.)

STATIONS.	TEMPERATURE.				RAINFALL. (Inches.)
	Daily Max.	Daily Min.	at 8 a.m.		
			Dry.	Wet.	
Sunburgh Head.....	42.4	34.5	38.5	37.4	3.19
Stornoway	43.5	31.6	39.1	38.1	3.86
Wick.....	43.1	33.2	38.1	38.7	2.04
Nairn	43.4	31.4	37.1	35.4	1.48
Aberdeen	43.2	33.8	37.3	35.7	2.35
Leith	43.7	34.3	38.6	37.1	1.45
Shields	43.8	35.1	38.6	37.3	1.50
Sparn Head.....	42.8	35.5	38.4	37.6	1.36
York	44.6	33.9	37.5	36.4	1.70
Loughborough	45.4	33.9	37.5	36.4	1.78
Ardrossan	44.5	36.3	39.4	38.2	3.04
Mullaghmore	46.6	38.6	42.0	40.3	2.80
Donaghadee.....	45.5	38.9	40.3	39.3	2.42
Holyhead	45.5	38.7	41.5	40.1	2.60
Liverpool.....	44.5	36.2	38.9	37.3	1.69
Parsonstown	46.9	35.6	39.4	38.1	2.20
Valencia	49.7	40.7	44.6	42.9	4.95
Roche's Point	48.4	39.6	43.1	41.6	4.43
Pembroke.....	45.5	39.4	42.1	40.9	2.82
Silly	43.9	42.8	45.0	44.4	2.71
Prawle Point	46.8	35.1	41.5	40.5	2.02
Jersey	46.9	39.3	42.3	41.0	2.55
Hurst Castle	45.7	36.7	40.3	39.3	2.30
Dover	44.4	36.1	39.2	38.1	1.95
LONDON	45.8	35.1	38.6	37.4	1.73
Oxford	45.0	34.9	37.9	36.8	1.92
Cambridge	45.5	32.8	37.3	36.2	1.46
Yarmouth	42.6	34.5	38.2	37.3	1.82

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



GENERAL SITUATION AT 8 A.M.

PRESSURE

Highest 30.7 ins. to 30.4 ins. in an anticyclone covering Ireland, England, France, Spain and South Germany.
Lowest. About 29.4 ins. in a depression over Lapland.

Gradients moderate over Scandinavia and the North Sea, slight elsewhere.

TEMPERATURE

Barometer changing little and irregularly in our Islands - falling slightly in the W. of Ireland, rising in Scotland.

Highest 51° at Stornoway, 48° at Valencia Island and at Naism, 44° at Looe and Lisbon, 43° at Christiansund, 41° in London, 40° at Stockholm.

Lowest (1) 8° at Haparanda; (2) 14° at Munich, 22° at Lyons, 24° at Belfort, 30° at Paris, 33° at Berlin.

It did not rise above 45° in London during yesterday.

WIND

Blowing hard from WSW in the northwest of Norway, fresh NW² in Denmark, moderate to strong from S⁴ (SE to SW) on our most western coasts, moderate E⁴ over the Bay of Biscay. Light and variable over France and western Germany.

WEATHER

Dull over the north of Scotland and in Scandinavia, with rain in places; fine over Ireland, England and France, but hazy or foggy in the southeast. Very fine over France & the Bay of Biscay.

SEA

Rough in far north and at Valencia Island, moderate at Rock Point, slight or smooth elsewhere.

PROBABLE CHANGES IN SYSTEM NOW PREVALENT

FORECASTS

For the 24 hours ending at NOON on 16TH FEBRUARY 1891.

DISTRICTS.

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

FORECASTS.

NONE ISSUED

DISTRICTS.

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

FORECASTS.

NONE ISSUED

WARNINGS.

NONE ISSUED

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

YESTERDAY'S 2 P.M. REPORTS.

	BAR.	THER.		WIND		WEA.	SEA		BAR.	THER.		WIND		WEA.	SEA
		D.	W.	D.	F.					D.	W.	D.	F.		
Skudesnaes ...	30.13	42	42	WNW	4	o	✓		Holyhead ...	30.57	46	SW	4	dm	3
Sumburgh Head ...	30.13	46	45	W	4	c	✓		Valencia ...	30.33	51	SE	6	bcn	6
Stornoway ...	30.31	49	47	W	4	c	✓		Scilly ...	30.60	49	SE	4	c	4
Aberdeen ...	30.29	51	44	WSW	2	c	2		Jersey ...	30.72	42	SE	2	bcn	3
Shields ...	30.41	46	45	WSW	3	c	2		Dungeness ...	30.64	40	SW	4	o	2
Ardrossan ...	30.40	49	47	WSW	2	c	1		London ...	30.64	45	SW	3	of	8
Malin Head ...	30.47	47	45	SW	3	c	2		Yarmouth ...	30.56	41	W	4	cf	3
Mullaghmore ...	30.50	52	47	SW	3	c	2		Rocheport ...	30.62	43	ENB	5	c	?
Belmullet ...	30.41	47	47	SW	2	c	*								

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

Weather fine over the greater part of the Continent but rainy over the south of Italy and the adjacent parts of the Mediterranean, and snowy in the west of Norway. Cloudy or overcast over the United Kingdom, with slight rain at some of the English stations. Snow falling later in Sweden and Finland; sky clearing in the southwest of our Islands.

Temperature highest (1) 54° at Oporto and San Fernando, 51° at Algiers and 50° at La Calle and Malta; (2) 48° at Valencia Island, and 47° at Stornoway and Roche's Point; reaching 45° or a little more at several of our western and northern stations. Lowest -3° F. at Ulesborg, -2° at Haparanda, 0° at Kuopio, +3° at Helsingfors, and 4° at St. Petersburg and Kiev; below 10° at most of the Russian stations, and below 20° in many parts of Germany and Austria. Daily maxima below 45° in the east and southeast of England, but exceeding 50° at some of the Irish and Scotch stations. Thermometer reaching 60° or a little more over Spain and Algeria.

Wind light or moderate from the SW^{wd} over the greater part of our Islands, as well as in Norway, Denmark and the Netherlands. Light from the NW^{wd} or N^{wd} over the Baltic, Russia and the greater part of Central Europe. Moderate from the NE^{wd} over France and Spain, strong from the same quarter over Italy, with a gale at Pesaro, strong from the NW^{wd} over Tunis & eastern Algeria. Subsequently increasing to a gale from the SW^{wd} in the west of Norway.

Barometer highest 30.5 ins. to 30.7 ins. and upwards in a large anticyclone covering Ireland, England, France and the greater part of central Europe. Lowest 29.6 ins. and less in a well marked depression lying over the Mediterranean in the neighbourhood of Sicily, and also in a shallower system lying over NW. Russia; 29.7 ins. and less in a third depression lying off the west of Norway. All three disturbances moving eastwards during day, but motion of southern depression very gradual.

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 16th February.* 1891.
 Issued by the Meteorological Office, 63, Victoria Street, London. R. H. SCOTT, Secretary.

R. H. SCOTT, Secretary.																	
STATIONER & PRINTER, 10, Victoria Street, London. R. H. SCOTT, Secretary.																	
STATIONER & PRINTER, 10, Victoria Street, London. R. H. SCOTT, Secretary.																	
STATIONER & PRINTER, 10, Victoria Street, London. R. H. SCOTT, Secretary.																	
STATIONER & PRINTER, 10, Victoria Street, London. R. H. SCOTT, Secretary.																	
STATIONER & PRINTER, 10, Victoria Street, London. R. H. SCOTT, Secretary.																	
STATIONER & PRINTER, 10, Victoria Street, London. R. H. SCOTT, Secretary.																	
STATIONER & PRINTER, 10, Victoria Street, London. R. H. SCOTT, Secretary.																	
STATIONER & PRINTER, 10, Victoria Street, London. R. H. SCOTT, Secretary.																	
STATIONER & PRINTER, 10, Victoria Street, London. R. H. SCOTT, Secretary.																	
STATIONER & PRINTER, 10, Victoria Street, London. R. H. SCOTT, Secretary.																	
STATIONER & PRINTER, 10, Victoria Street, London. R. H. SCOTT, Secretary.																	
STATIONER & PRINTER, 10, Victoria Street, London. R. H. SCOTT, Secretary.																	
STATIONER & PRINTER, 10, Victoria Street, London. R. H. SCOTT, Secretary.																	
STATIONER & PRINTER, 10, Victoria Street, London. R. H. SCOTT, Secretary.																	
STATIONER & PRINTER, 10, Victoria Street, London. R. H. SCOTT, Secretary.																	
STATIONER & PRINTER, 10, Victoria Street, London. R. H. SCOTT, Secretary.																	
STATIONER & PRINTER, 10, Victoria Street, London. R. H. SCOTT, Secretary.																	
STATIONER & PRINTER, 10, Victoria Street, London. R. H. SCOTT, Secretary.																	
STATIONER & PRINTER, 10, Victoria Street, London. R. H. SCOTT, Secretary.																	
STATIONER & PRINTER, 10, Victoria Street, London. R. H. SCOTT, Secretary.																	
STATIONER & PRINTER, 10, Victoria Street, London. R. H. SCOTT, Secretary.																	
STATIONER & PRINTER, 10, Victoria Street, London. R. H. SCOTT, Secretary.																	
STATIONER & PRINTER, 10, Victoria Street, London. R. H. SCOTT, Secretary.																	
STATIONER & PRINTER, 10, Victoria Street, London. R. H. SCOTT, Secretary.																	
STATIONER & PRINTER, 10, Victoria Street, London. R. H. SCOTT, Secretary.																	
STATIONER & PRINTER, 10, Victoria Street, London. R. H. SCOTT, Secretary.																	
STATIONER & PRINTER, 10, Victoria Street, London. R. H. SCOTT, Secretary.																	
STATIONER & PRINTER, 10, Victoria Street, London. R. H. SCOTT, Secretary.																	
STATIONER & PRINTER, 10, Victoria Street, London. R. H. SCOTT, Secretary.																	
STATIONER & PRINTER, 10, Victoria Street, London. R. H. SCOTT, Secretary.																	
STATIONER & PRINTER, 10, Victoria Street, London. R. H. SCOTT, Secretary.																	
STATIONER & PRINTER, 10, Victoria Street, London. R. H. SCOTT, Secretary.																	
STATIONER & PRINTER, 10, Victoria Street, London. R. H. SCOTT, Secretary.																	
STATIONER & PRINTER, 10, Victoria Street, London. R. H. SCOTT, Secretary.																	
STATIONER & PRINTER, 10, Victoria Street, London. R. H. SCOTT, Secretary.																	
STATIONER & PRINTER, 10, Victoria Street, London. R. H. SCOTT, Secretary.																	
STATIONER & PRINTER, 10, Victoria Street, London. R. H. SCOTT, Secretary.																	
STATIONER & PRINTER, 10, Victoria Street, London. R. H. SCOTT, Secretary.																	
STATIONER & PRINTER, 10, Victoria Street, London. R. H. SCOTT, Secretary.																	
STATIONER & PRINTER, 10, Victoria Street, London. R. H. SCOTT, Secretary.																	
STATIONER & PRINTER, 10, Victoria Street, London. R. H. SCOTT, Secretary.																	
STATIONER & PRINTER, 10, Victoria Street, London. R. H. SCOTT, Secretary.																	
STATIONER & PRINTER, 10, Victoria Street, London. R. H. SCOTT, Secretary.																	
STATIONER & PRINTER, 10, Victoria Street, London. R. H. SCOTT, Secretary.																	
STATIONER & PRINTER, 10, Victoria Street, London. R. H. SCOTT, Secretary.																	
STATIONER & PRINTER, 10, Victoria Street, London. R. H. SCOTT, Secretary.																	
STATIONER & PRINTER, 10, Victoria Street, London. R. H. SCOTT, Secretary.																	
STATIONER & PRINTER, 10, Victoria Street, London. R. H. SCOTT, Secretary.																	
STATIONER & PRINTER, 10, Victoria Street, London. R. H. SCOTT, Secretary.																	
STATIONER & PRINTER, 10, Victoria Street, London. R. H. SCOTT, Secretary.																	
STATIONER & PRINTER, 10, Victoria Street, London. R. H. SCOTT, Secretary.																	
STATIONER & PRINTER, 10, Victoria Street, London. R. H. SCOTT, Secretary.																	
STATIONER & PRINTER, 10, Victoria Street, London. R. H. SCOTT, Secretary.																	
STATIONER & PRINTER, 10, Victoria Street, London. R. H. SCOTT, Secretary.																	
STATIONER & PRINTER, 10, Victoria Street, London. R. H. SCOTT, Secretary.																	
STATIONER & PRINTER, 10, Victoria Street, London. R. H. SCOTT, Secretary.																	
STATIONER & PRINTER, 10, Victoria Street, London. R. H. SCOTT, Secretary.																	
STATIONER & PRINTER, 10, Victoria Street, London. R. H. SCOTT, Secretary.																	
STATIONER & PRINTER, 10, Victoria Street, London. R. H. SCOTT, Secretary.																	
STATIONER & PRINTER, 10, Victoria Street, London. R. H. SCOTT, Secretary.																	
STATIONER & PRINTER, 10, Victoria Street, London. R. H. SCOTT, Secretary.																	
STATIONER & PRINTER, 10, Victoria Street, London. R. H. SCOTT, Secretary.																	
STATIONER & PRINTER, 10, Victoria Street, London. R. H. SCOTT, Secretary.																	
STATIONER & PRINTER, 10, Victoria Street, London. R. H. SCOTT, Secretary.																	
STATIONER & PRINTER, 10, Victoria Street, London. R. H. SCOTT, Secretary.																	
STATIONER & PRINTER, 10, Victoria Street, London. R. H. SCOTT, Secretary.																	
STATIONER & PRINTER, 10, Victoria Street, London. R. H. SCOTT, Secretary.																	
STATIONER & PRINTER, 10, Victoria Street, London. R. H. SCOTT, Secretary.																	
STATIONER & PRINTER, 10, Victoria Street, London. R. H. SCOTT, Secretary.																	
STATIONER & PRINTER, 10, Victoria Street, London. R. H. SCOTT, Secretary.																	
STATIONER & PRINTER, 10, Victoria Street, London. R. H. SCOTT, Secretary.																	
STATIONER & PRINTER, 10, Victoria Street, London. R. H. SCOTT, Secretary.																	
STATIONER & PRINTER, 10, Victoria Street, London. R. H. SCOTT, Secretary.																	
STATIONER & PRINTER, 10, Victoria Street, London. R. H. SCOTT, Secretary.																	
STATIONER & PRINTER, 10, Victoria Street, London. R. H. SCOTT, Secretary.																	
STATIONER & PRINTER, 10, Victoria Street, London. R. H. SCOTT, Secretary.																	
STATIONER & PRINTER, 10, Victoria Street, London. R. H. SCOTT, Secretary.																	
STATIONER & PRINTER, 10, Victoria Street, London. R. H. SCOTT, Secretary.																	
STATIONER & PRINTER, 10, Victoria Street, London. R. H. SCOTT, Secretary.																	
STATIONER & PRINTER, 10, Victoria Street, London. R. H. SCOTT, Secretary.																	
STATIONER & PRINTER, 10, Victoria Street, London. R. H. SCOTT, Secretary.																	
STATIONER & PRINTER, 10, Victoria Street, London. R. H. SCOTT, Secretary.																	
STATIONER & PRINTER, 10, Victoria Street, London. R. H. SCOTT, Secretary.																	
STATIONER & PRINTER, 10, Victoria Street, London. R. H. SCOTT, Secretary.																	
STATIONER & PRINTER, 10, Victoria Street, London. R. H. SCOTT, Secretary.																	
STATIONER & PRINTER, 10, Victoria Street, London. R. H. SCOTT, Secretary.																	
STATIONER & PRINTER, 10, Victoria Street, London. R. H. SCOTT, Secretary.																	
STATIONER & PRINTER, 10, Victoria Street, London. R. H. SCOTT, Secretary.																	
STATIONER & PRINTER, 10, Victoria Street, London. R. H. SCOTT, Secretary.																	
STATIONER & PRINTER, 10, Victoria Street, London. R. H. SCOTT, Secretary.																	
STATIONER & PRINTER, 10, Victoria Street, London. R. H. SCOTT, Secretary.																	
STATIONER & PRINTER, 10, Victoria Street, London. R. H. SCOTT, Secretary.																	
STATIONER & PRINTER, 10, Victoria Street, London. R. H. SCOTT, Secretary.																	
STATIONER & PRINTER, 10, Victoria Street, London. R. H. SCOTT, Secretary.																	
STATIONER & PRINTER, 10, Victoria Street, London. R. H. SCOTT, Secretary.																	
STATIONER & PRINTER, 10, Victoria Street, London. R. H. SCOTT, Secretary.																	
STATIONER & PRINTER, 10, Victoria Street, London. R. H. SCOTT, Secretary.																	
STATIONER & PRINTER, 10, Victoria Street, London. R. H. SCOTT, Secretary.																	
STATIONER & PRINTER, 10, Victoria Street, London. R. H. SCOTT, Secretary.																	
STATIONER & PRINTER, 10, Victoria Street, London. R. H. SCOTT, Secretary.																	
STATIONER & PRINTER, 10, Victoria Street, London. R. H. SCOTT, Secretary.																	
STATIONER & PRINTER, 10, Victoria Street, London. R. H. SCOTT, Secretary.																	
STATIONER & PRINTER, 10, Victoria Street, London. R. H. SCOTT, Secretary.																	
STATIONER & PRINTER, 10, Victoria Street, London. R. H. SCOTT, Secretary.																	
STATIONER & PRINTER, 10, Victoria Street, London. R. H. SCOTT, Secretary.																	
STATIONER & PRINTER, 10, Victoria Street, London. R. H. SCOTT, Secretary.																	
STATIONER & PRINTER, 10, Victoria Street, London. R. H. SCOTT, Secretary.																	
STATIONER & PRINTER, 10, Victoria Street, London. R. H. SCOTT, Secretary.																	
STATIONER & PRINTER, 10, Victoria Street, London. R. H. SCOTT, Secretary.																	
STATIONER & PRINTER, 10, Victoria Street, London. R. H. SCOTT, Secretary.																	
STATIONER & PRINTER, 10, Victoria Street, London. R. H. SCOTT, Secretary.																	
STATIONER & PRINTER, 10, Victoria Street, London. R. H. SCOTT, Secretary.																	
STATIONER & PRINTER, 10, Victoria Street, London. R. H. SCOTT, Secretary.																	
STATIONER & PRINTER, 10, Victoria Street, London. R. H. SCOTT, Secretary.																	
STATIONER & PRINTER, 10, Victoria Street, London. R. H. SCOTT, Secretary.																	
STATIONER & PRINTER, 10, Victoria Street, London. R. H. SCOTT, Secretary.																	
STATIONER & PRINTER, 10																	

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 16th February, 1891.

BAROMETER, WIND AND SEA.

EXPLANATION OF MAP.

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

Changes since previous morning are stated in words.

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

→ forces above 10; → forces 8 to 10;
→ forces 5 to 7; → forces 1 to 4;
○ = dead calm.

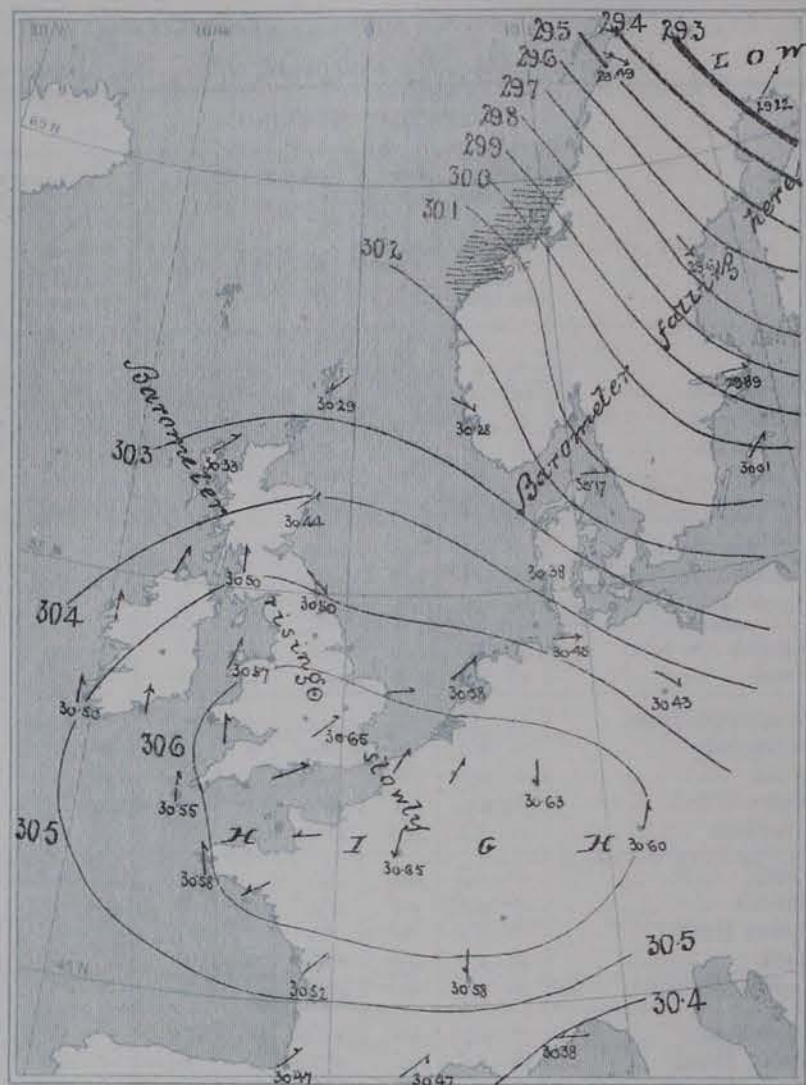
SEA DISTURBANCE—Where considerable, is shown thus—

— Rough. — High.

MEAN HEIGHT OF THE BAROMETER

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

STATIONS.	MEAN READINGS.
Sumburgh Head	29.775
Stornoway	29.773
Wick	29.804
Nairn	29.814
Aberdeen	29.848
Leith	29.870
Shields	29.906
Spurn Head	29.934
York	29.939
Loughborough	29.963
Ardrossan	29.873
Mullaghmore	29.842
Donaghadee	29.884
Holyhead	29.911
Liverpool	29.934
Parsonstown	29.906
Valencia	29.919
Roche's Point	29.916
Pembroke	29.917
Sally	29.959
Prawle Point	29.993
Jersey	30.007
Hurst Castle	29.986
Dover	29.985
LONDON	29.989
Oxford	29.985
Cambridge	29.970
Yarmouth	29.961



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

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

WEATHER—Is shown by Letters of the Beaufort Scale.

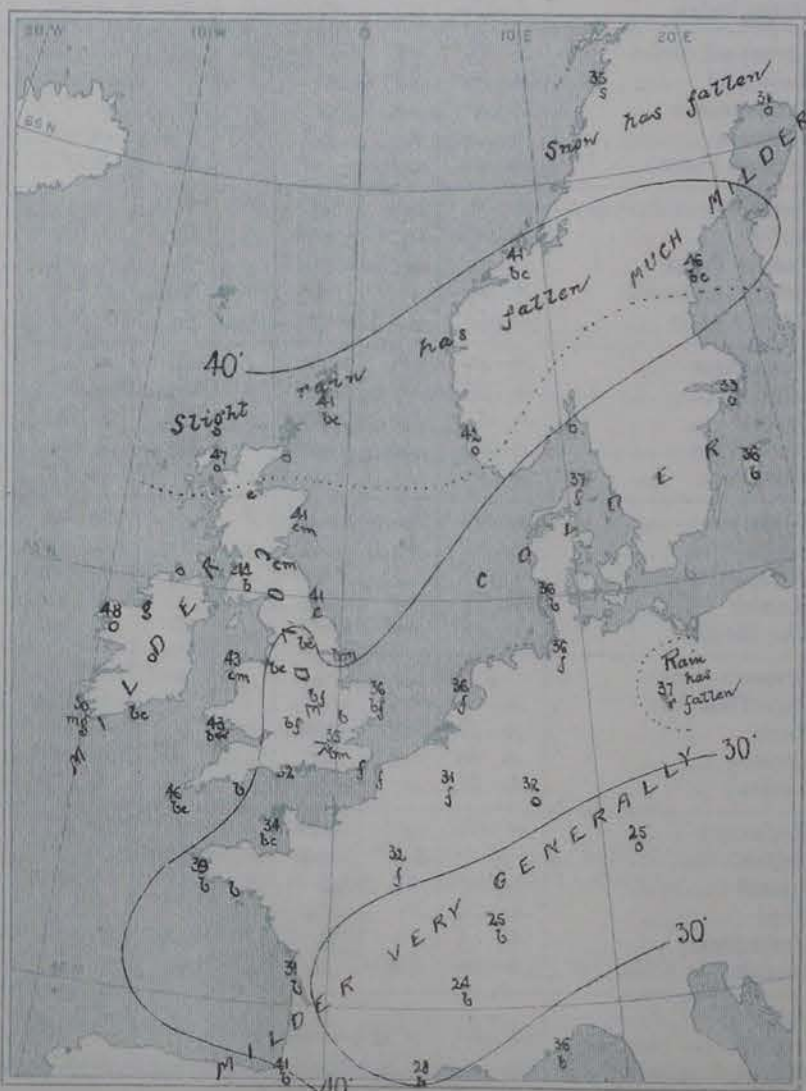
RAINFALL—A dotted line separates the districts in which rain has fallen from those where there has been none. Falls of 0.5 in. or more are quoted in figures.

MEANS OF TEMPERATURE IN SHADE, AND RAINFALL.

(For the month of February.)

STATIONS.	TEMPERATURE.				RAINFALL. (Inches.)
	Daily Max.	Daily Min.	at 8 a.m. Dry.	Wet.	
Sumburgh Head	42.4	34.5	38.5	37.4	3.19
Stornoway	43.5	31.6	39.1	38.1	3.86
Wick	43.1	33.2	38.1	36.7	2.04
Nairn	43.1	31.4	37.1	35.4	1.48
Aberdeen	43.2	33.8	37.3	35.7	2.35
Leith	43.7	34.3	38.6	37.1	1.45
Shields	43.8	35.1	38.6	37.3	1.50
Spurn Head	42.8	35.5	38.4	37.6	1.36
York	44.6	33.9	37.5	36.4	1.70
Loughborough	43.4	33.9	37.5	36.1	1.78
Ardrossan	41.6	36.3	39.4	38.2	3.01
Mullaghmore	46.6	38.6	42.0	40.3	2.80
Donaghadee	45.5	36.0	40.3	39.3	2.42
Holyhead	45.5	38.7	41.5	40.1	2.60
Liverpool	44.5	36.2	38.9	37.3	1.09
Parsonstown	46.9	35.6	39.1	38.1	2.20
Valencia	49.7	40.7	44.6	42.0	4.95
Roche's Point	48.4	39.6	43.1	41.6	4.43
Pembroke	43.5	39.4	42.1	40.9	2.82
Sally	43.9	42.8	43.0	41.4	2.71
Prawle Point	46.8	38.1	41.5	40.5	2.02
Jersey	46.9	39.3	42.3	41.0	2.66
Hurst Castle	45.7	36.7	40.3	39.3	2.30
Dover	41.4	36.1	39.2	38.1	1.95
LONDON	45.8	35.1	38.6	37.4	1.73
Oxford	45.0	34.9	37.9	36.8	1.92
Cambridge	45.5	32.8	37.2	36.2	1.46
Yarmouth	42.6	34.5	38.2	37.3	1.82

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



GENERAL SITUATION AT 8 A.M.

PRESSURE

Highest, 30.6 in. and more to 30.4 in. over Germany, France, Spain, and the British Islands.

Lowest, 29.3 in. and less, over Lapland; 30.3 in. in the Shetlands.

Gradients rather steep over Sweden and the north of Norway, slight elsewhere.

Barometer rising all over our islands, falling over northern Europe.

TEMPERATURE

Highest, 48° to 50° in the west of Ireland, 47° at Hornsey, 46° at Scilly.

Lowest, 24° at Lyons, 25° at Belfast and Munich, 28° at Leipzig, 30° at Houghton and 32° at Oxford.

At Paris the reading was 32°, at Berlin 37° and in London the thermometer stood at 35°, after having fallen to 33° in the shade and 22° on the grass.

WIND

Strong to a gale from NW² over the northern parts of Scandinavia.

Very light and variable over Great Britain, France and Germany.

Moderate S³ on our western coast, E³ light over the Bay of Biscay.

WEATHER

Dull in the extreme west and north, with snow at Haparanda.

Fine generally elsewhere, foggy in the southeast of England and north of France, but clear and bright at most stations.

Heavy frost prevailed on the grass over England. Rain has fallen over Scandinavia and the north of Scotland.

SEA

Moderate off the south of Ireland and at some northern stations slight or smooth elsewhere.

PROBABLE CHANGES IN SYSTEM NOW PREVALENT

There is no indication of any important change.

FORECASTS

For the 24 hours ending at NOON on 17th FEB: 1891.

DISTRICTS.

FORECASTS.

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

Light and Variable breezes; fair as a whole.

Light W² breezes; fine generally.

Varying light breezes; fine; mild day, but cold night, and in places foggy.

DISTRICTS.

FORECASTS.

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

S² breezes, light; fair generally.

S² breezes, light; fine, local fogs.

S² breezes, light or moderate; fine 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 ... 30.31	43	43	WNW	2	Tf	3	Holyhead ... 30.56	47	43	SW	4	6	3		
Sumburgh Head ...							Valencia ...								
Stornoway ... 30.28	40	46	W	6	c	5	Scilly ...								
Aberdeen ...							Jersey ... 30.61	44	39	SE	2	fm	2		
Shields ...							Dungeness ... 30.59	44	42	SW	2	m	1		
Ardrossan ...							London ...						x		
Malin Head ... 30.38	49	40	S	4	b	2	Yarmouth ...								
Mullaghmore ...							Rochefort ... 30.57	46	38	ENE	4	b	*		
Belmullet ... 30.39	49	47	SW	3	bc	*									

GENERAL REMARKS ON THE WEATHER OVER EUROPE

DURING THE PAST 24 HOURS.

Weather fine over nearly the whole of western and southern Europe, but dull in the north of Scotland and the west of Norway, and hazy or foggy in the south and east of England - dull in most of the central countries as well as in western Russia, Turkey, Algeria and the south of Italy, with snow at St. Petersburg, Warsaw, Kiev and Constantinople, and rain at Palermo and La Calle. A little rain falling later in Scandinavia and the N. of Scotland.

Temperature highest (1) 54° at Oporto, 53° at Algiers, 52° at San Fernando, and 49° at Malta, (2) 57° at Stornoway, 48° at Kain and Valencia Island, and 47° at Roske Point; above 40° in most parts of the United Kingdom. Lowest -2° at Moscow, 0° at Nicolaieff, +2° at Odessa, 5° at Kharkov, and 6° at Kiev, below 20° in many parts of Russia, Austria and south Germany and below the freezing point over France and central Spain and the north of Italy. Subsequently rising above 50° in many parts of the United Kingdom, the highest readings of all being 57° at Loughborough, and 56° at Cambridge.

Wind light or moderate from the End over France and Spain, and from the SEnd or Snd in the west and southwest of our Islands. Light from SW or W. over the eastern parts of Great Britain, and from the Wnd or NWnd over Scandinavia, Denmark and the Baltic, but strong to a gale in the west of Norway, moderate from the SWnd in Germany. Strong from the NEnd over Italy and the Adriatic and from the Nnd in Tunis. No important change occurring during day.

Barometer highest 30.6 ins. and upwards in a long band stretching from England and the north of France across Germany and Austria to the south of Russia. Lowest 29.4 ins. and less in a depression lying over Lapland and Finland, 29.8 ins. and less in another disturbance lying over the Mediterranean to the Snd of Italy. New depression appearing to the north of our Islands in the evening.

SUMMARY OF CHANGES IN THE WEATHER OVER THE BRITISH ISLANDS AND THEIR NEIGHBOURHOOD FROM THE 8TH TO 14TH FEBRUARY, 1891

Throughout the greater part of the week pressure was highest over Germany, France and the southern parts of our Islands, lowest over northern Europe and the adjacent parts of the Atlantic. The wind in these latter regions and the northern parts of Great Britain was consequently SW^{ly} to W^{ly} in direction, and at times blew with great force at the Scandinavian stations, as some large depressions passed over Lapland and the Arctic Sea from the westward. Temperature also was high, rainfall frequent and on Thursday heavy falls of snow were experienced in the north of Scotland. Further to the Snd the wind was light, more N^{ly} and variable, and over the English Channel and France it was mainly from between NW and NE, but of little strength. In these regions the nights were cold, but the days mild, and dry, fog was experienced at times, but the weather as a whole was very good for the time of year, and often clear and bright.

Between Tuesday and Thursday depressions of great depth were developed over Sweden and Norway causing strong NW^{ly} gales on the eastern shores of the North Sea; secondary disturbances were formed simultaneously over Scotland, but these proved to be slight, and beyond some moderate passing gales, and the snow referred to above, did not produce much effect on the weather in our own neighbourhood.

On Friday a new anticyclone advanced directly over the United Kingdom from the Wnd and at the close of the week had merged in the larger system over the Continent.

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 17th FEBRUARY 1891.

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.	Direc.	Force. (0 to 12.)		Reading at 32° F. and Sea Level.	Difference from 8 a.m. yesterday.	Dry.	Wet.	Difference from 8 a.m. yesterday.	Direc.	Force. (0 to 12.)			Max.	Min.		
SCANDINAVIA.	Haparanda ...	29.55	24	NW	6	29.37	+0.18	21	19	-10	N	4	bc	*	34	14	0.04	
	Hernösand ...	29.57	35	NNW	6	29.19	+0.38	26	25	-20	N	0	bc	*	46	?	0.04	
	Stockholm ...	30.15	35	NW	4	30.24	+0.09	35	30	+2	NW	4	bc	*	46	30	—	
	Wisby ...	30.17	37	NW	4	30.18	+0.01	36	32	0	NNW	6	bc	*	41	32	—	
	Bodö ...	29.95	28	NNW	6	30.07	+0.12	32	31	-2	E	2	o	1	36	27	—	
	Christiansund	30.35	40	SW	4	30.30	+0.05	45	43	+2	SW	8	T	5	45	36	—	
	Skudesnaes ...	30.51	36	N	0	30.55	+0.04	37	36	-1	NNW	1	o	2	45	32	—	
	Christiania Fjord (Færder)	30.36	39	N	0	30.39	+0.03	35	34	-1	NNE	0	C	2	43	35	—	
	Skagen (The Scaw)	30.44	36	NW	1	30.35	+0.09	33	32	-1	N	0	f	0	41	30	—	
	Fanö ...	30.52	38	NW	4	30.56	+0.04	37	36	+1	NW	4	f	*	39	36	—	
BRITISH ISLANDS.	Sumburgh Head	30.42	46	W	2	30.42	+0.00	46	44	+2	W	2	C	3	47	40	0.01	
	Stornoway ...	30.43	47	SW	5	30.42	+0.01	47	45	0	SW	4	C	4	49	44	0.01	
	Wick ...	30.58	44	W	1	30.49	+0.09	46	45	+1	W	1	C	0	52	40	—	
	Nairn ...	30.49	49	W	2	30.45	+0.04	44	41	-3	WNW	1	f	1	55	40	—	
	Aberdeen ...	30.53	44	SE	1	30.56	+0.03	35	34	-1	NNW	1	bc	1	55	33	—	
	Leith ...	30.54	47	W	1	30.55	+0.01	43	42	+1	N	0	f	*	52	41	—	
	Shields ...	30.57	45	SW	2	30.52	+0.05	39	38	-1	W	2	f	2	53	34	—	
	Spurn Head ...	30.62	42	WNW	2	30.65	+0.03	38	37	-1	SW	1	bc	1	47	36	—	
	York ...	30.61	43	W	1	30.67	+0.06	33	32	-1	W	1	f	*	51	31	—	
	Loughborough	30.63	42	N	0	30.65	+0.02	30	30	0	SE	1	C	*	54	28	—	
GERMANY & HOLLAND.	Ardrossan ...	30.56	45	S	1	30.60	+0.04	44	43	0	N	0	om	0	45	42	—	
	Malin Head ...	30.50	46	S	3	30.56	+0.06	43	42	-1	S	3	o	1	46	43	0.03	
	Mullaghmore ...	30.52	49	S	4	30.56	+0.04	46	44	-2	SE	2	om	2	50	45	—	
	Belmullet ...	30.48	48	SW	2	30.54	+0.06	48	46	-2	SW	2	o	*	49	46	—	
	Donaghadee ...	30.57	46	SW	2	30.63	+0.06	38	38	-1	SW	3	C	1	51	38	—	
	Liverpool (Bidston)	30.63	42	E	1	30.69	+0.06	38	37	0	SW	1	C	2	46	36	—	
	Holyhead ...	30.60	45	SW	3	30.66	+0.06	44	43	+1	SW	1	om	2	46	42	—	
	Parsonstown ...	30.56	46	N	0	30.61	+0.05	42	41	0	N	0	o	*	53	33	—	
	Valencia ...	30.53	49	S	4	30.59	+0.06	35	47	0	SE	4	og	4	50	48	—	
	Roche's Point...	30.58	48	S	4	30.63	+0.05	48	46	+1	S	3	o	3	53	47	—	
FRANCE AND BELGIUM.	Pembroke (St. Ann's Hd.)	30.63	45	S	2	30.68	+0.05	37	37	-6	E	2	f	2	48	37	—	
	Scilly ...	30.55	46	SE	4	30.64	+0.09	45	43	-1	SE	3	f	4	51	42	—	
	Prawle Point ...	30.67	43	NNW	2	30.65	+0.02	42	39	-3	NNE	2	bc	1	48	37	—	
	Jersey (St. Aubin's)	30.65	45	N	2	30.68	+0.03	41	38	-3	N	2	bc	2	51	33	—	
	Hurst Castle ...	30.67	43	WNW	2	30.69	+0.02	31	31	-1	NNE	1	m	0	48	30	—	
	Dungeness ...	30.63	41	N	2	30.67	+0.04	33	32	+1	N	2	m	1	51	29	—	
	London ...	30.65	42	NW	1	30.69	+0.04	33	33	-2	N	0	f	*	52	32	—	
	Oxford ...	30.66	40	W	1	30.70	+0.04	29	28	-3	N	0	bc	*	52	28	—	
	Cambridge ...	30.65	43	NW	1	30.67	+0.02	32	31	0	SW	1	o	*	53	28	—	
	Yarmouth ...	30.61	44	NW	1	30.65	+0.04	34	33	-2	NW	1	f	2	50	32	—	
PENINSULA.	Cuxhaven ...	30.50	38	W	3	30.62	+0.12	38	37	+2	NNW	2	o	*	41	?	0.04	
	Berlin ...	30.45	38	W	4	30.55	+0.10	37	36	0	NNW	4	o	*	39	36	—	
	Wiesbaden ...	30.62	38	N	0	30.63	+0.01	31	30	-1	N	0	o	*	46	30	—	
	Munich ...	30.62	38	N	0	30.61	+0.01	27	27	+2	SW	4	C	*	37	25	—	
	The Helder ...	30.62	37	WNW	1	30.67	+0.05	33	33	-2	N	1	f	1	41	32	—	
	Brussels (9 a.m.)	30.64	37	SW	2	30.61	+0.03	28	28	-3	N	0	f	0	37	27	—	
	Cape Gris Nez	30.66	38	NE	1	30.65	+0.01	32	32	0	N	1	f	0	43	34	—	
	Paris ...	30.67	47	N	1	30.62	+0.05	38	37	-1	SE	3	f	2	55	34	—	
	Brest ...	30.60	45	N	0	30.60	+0.00	39	37	+4	NE	2	f	3	52	36	—	
	Lorient ...	30.60	45	N	0	30.60	+0.00	39	37	+4	NE	2	f	3	52	36	—	
PENINSULA.	Rochefort ...	30.49	40	ENE	5	30.48	+0.01	35	34	+4	ENE	4	f	*	48	27	—	
	Belfort ...	30.52	32	SW	4	30.52	+0.00	36	35	+1	SW	4	f	*	44	?	0.04	
	Lyons ...	30.54	32	S	2	30.56	+0.02	26	25	+2	S	1	f	*	39	?	—	
	Nice ...	30.40	42	N	0	30.48	+0.08	40	35	+4	E	2	f	1	54	36	—	
	Perpignan ...	30.41	43	E	1	30.48	+0.07	30	29	+2	W	1	f	*	53	28	—	
	Biarritz ...	30.44	46	NW	3	30.44	+0.00	42	37	+1	SW	3	f	1	52	39	—	
	Corunna ...	30.55	35	NNW	3	30.52	+0.03	46	42	+5	NNE	3	f	2	59	?	—	
	Lisbon ...	30.55	35	NNW	3	30.52	+0.03	46	42	+5	NNE	3	f	2	59	?	—	

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

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

for 8 a.m. on Tuesday, 17th February, 1891.

EXPLANATION OF MAP

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

During the 20 Years: 1871—1890

(For the month of February.)

A hand-drawn weather map of Europe and Western Asia, showing temperature isotherms and handwritten notes. The map includes latitude and longitude lines. Handwritten notes include "A little rain", "has fatten", "MUCH Snow has fatten COLDER", "IN MOST PLACES", "RAIN has fatten", "COLDER", "RATHER", "W A R M E R", and "Rain has fatten". Various temperature readings are scattered across the map, such as 30, 35, 37, 38, 40, 42, 43, 45, 46, 48, 50, 52, 55, 58, 60, 62, 65, 68, 70, 72, 75, 78, 80, 82, 85, 88, 90, 92, 95, 98, 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, 30.6 ins. to 30.7 ins. in an anticyclone lying over the greater part of Ireland, England, the Netherlands, western Germany and the north of France.
Lowest, 30.0 ins. and less, in the north of Sweden.

Gradients slight. Barometer rising generally, but falling a little in the west of France and also in the Heligoland.

TEMPERATURE

Highest, 50° at Valencia Island, 48° at Bilmullet and Rockabint, 47° at Skerroway, and 46° at Lumburgh H. Hill, Mullaghmore and Lisburn.

Lowest, 21° at Knaparanda, 26° at Kermisland and Lym, 27° at Munich, 28° at Brussels, 29° at Oxford, and 30° at Loughborough.

Frost occurred over England last night: in London the thermometer in the grass fell to 25°

WIND

Light from between N. and E. over the Channel, France and the southwest of England.

S¹ or SE¹ in Ireland, SW¹ or W¹ in the northern and eastern parts of Great Britain

Moderate from the NW² over the Channel, France and North Germany, but strong to a gale from N. at Christiansund.

WEATHER

Fair generally but foggy over the Netherlands, and many parts of England, and dull in Ireland, as well as in the west of Norway. Rain is falling at Christiansund.

A solar halo was seen yesterday at Oxford, and lunar halo at Anderson and Harstfortle.

SEA

Moderate to smooth generally, but rather rough at Christiansund.

PROBABLE CHANGES IN SYSTEM NOW PREVALENT

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

FORECASTS

For the 24 hours ending at NOON on 18TH FEB^{RY} 1891.

DISTRICTS.

FORECASTS.

0	SCOTLAND NORTH	SW ¹ winds, freshening; fair to dull and some rain.
1	SCOTLAND EAST	Light breezes, chiefly SW ¹ ; fair generally, but some fog or mist.
2	ENGLAND N.E.	
3	ENGLAND EAST	Variable or N ¹ winds; fair generally but local fogs.
4	MIDLAND COUNTIES	
5	ENGLAND SOUTH	

DISTRICTS.

FORECASTS.

6	SCOTLAND WEST	Same as No 1 and 2
7	ENGLAND N.W.	
8	ENGLAND S.W.	E ¹ and SE ¹ winds, light; fine generally but local fogs
9	IRELAND NORTH	S ¹ and SE ¹ winds, moderate; fair generally
10	IRELAND SOUTH	

WARNINGS

NONE ISSUED.

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

YESTERDAY'S 2 P.M. REPORTS.

	THER.		WIND		WEA.	SEA		THER.		WIND		WEA.	SEA
	BAR.	D.	W.	D.				BAR.	D.	W.	D.		
Skudesnaes ...	30.40	45	42	SW	4	6	2	Holyhead ...	30.61	46	45	SW	2
Sumburgh Head ...	30.41	45	44	W	0	0	3	Valencia ...	30.52	53	46	SE	5
Stornoway ...	30.41	49	48	SW	4	0	4	Scilly ...	30.55	53	46	W	4
Aberdeen ...	30.40	53	47	SE	1	6	1	Jersey ...	30.68	48	47	SE	3
Shields ...	30.54	48	44	W	3	6	2	Dungeness ...	30.65	47	45	W	2
Ardrossan ...	30.54	45	44	SW	2	0	2	London ...	30.64	52	49	W	1
Malin Head ...	30.48	45	44	W	3	0	2	Yarmouth ...	30.57	53	47	SW	2
Mullaghmore ...	30.50	53	46	SE	4	0	2	Rocheport ...	30.49	46	41	NE	5
Belmullet ...	30.48	49	47	SW	3	0	*						

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

Weather fine over Western Europe generally, and in many places clear and bright; fog prevalent, however, over the eastern half of England, the Netherlands and northeast of France, sky overcast in the west of Ireland and Friesland. Very variable over northern, eastern and southern Europe, sky being clear in the south, and locally at several eastern stations, dull elsewhere, with fog at St. Petersburg and Riga, snow at Haparanda and also at Mieskierff.

Temperatures risen fast over Germany and Austria, very rapidly over southern Russia, fallen over Friesland, and the North Sea. Maximum readings reaching 50° at San Fernando and Valencia Island only, exceeding 40° on the Atlantic coast of Spain, the British Islands and Norway, and at several of the Mediterranean stations. Much lower elsewhere. Lowest -7° to +7° over Central Russia, 18° to 30° over Austria-Hungary, 23° to 25° over the southeast of France and south Germany, 30° to 35° over Central England. Rising to between 50° and 55° over Great Britain later and also in the east and south of France, frost on ground over Great Britain at night.

Winds extremely variable; mainly NE to N¹ fresh to strong over southern Europe, S¹ in the western parts of the British Islands, NE¹, fresh to a gale in Scandinavia, S¹ over Finland, W¹ over Denmark and Germany, nearly calm over central France and western Germany. Very little change reported later.

Barometer highest (1) 30.6 in. and more to 30.4 in. in a complete anticyclone covering western and part of Central Europe, and (2) 30.2 in. to 30.0 in. in another system over central Russia. Lowest 29.6 in. to 29.2 in. over Lapland and the northern parts of Scandinavia, 29.8 in. and less in a depression over southern Russia and 30.2 in. and less in another shallow system over the south of Italy and the southern part of the Mediterranean. No material change reported later.

EXPLANATION OF COLUMNS GIVEN ON PAGE 1.

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

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

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

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

DAILY WEATHER REPORT.

for *Wednesday, 18th February, 1891.*
 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.	Direc.	Force. (0 to 12.)		Reading at 32° F. and Sea Level.	Difference from 8 a.m. yesterday.	Dry.	Wet.	Difference from 8 a.m. yesterday.	Direc.	Force. (0 to 12.)			Max.	Min.		
SCANDINAVIA.	Haparanda ...	29.97	25	SW	7	S	29.72	- 27	38	36	+ 17	NSW	4	C	*	9	19	0.12	
	Hernösand ...	30.22	35	Z	0	b	30.17	- 02	40	37	+ 14	SW	2	b	*	40	23		
	Stockholm ...	30.38	33	Z	0	0	30.38	+ 14	30	28	- 5	SW	2	b	*	41	30		
	Wishby ...	30.29	35	Z	4	b	30.44	+ 26	33	31	- 3	SSW	2	b	*	39	32		
	Bodö ...	29.82	42	SW	8	1	29.65	- 42	42	42	+ 10	SW	9	r	6	43	?	0.49	
	Christiansund	30.28	47	SW	8	bC	30.26	- 04	46	42	+ 1	SSW	7	bC	5	47	45		
	Skudesnaes ...	30.53	38	E	2	c	30.52	- 03	38	38	+ 1	ESE	2	0	2	39	36		
	Christiania Fjord (Færder)	30.40	40	WNW	3	bC	30.37	- 02	33	32	- 2	Z	0	b	1	41	33		
	Skagen (The Seaw)	30.45	36	W	1	bC	30.43	+ 04	37	37	+ 4	W	2	m	1	41	32		
	Fanö ...	30.57	36	NW	4	c	30.62	+ 06	31	31	- 6	NSW	2	f	*	41	30		
BRITISH ISLANDS.	Sumburgh Head	30.40	46	NSW	2	0	30.38	- 04	46	45	0	NSW	3	0	4	49	43		
	Stornoway ...	30.40	47	SW	5	C	30.38	- 04	46	46	- 1	SW	6	C	5	48	44		
	Wick ...	30.46	40	NSW	1	b	30.47	- 02	41	40	- 5	W	1	b	0	54	38		
	Nairn ...	30.45	45	WNW	2	C	30.47	- 02	45	43	+ 1	SW	1	bC	1	51	38		
	Aberdeen ...	30.50	42	NE	2	bm	30.55	- 01	36	35	+ 1	SW	1	bm	1	51	33		
	Leith ...	30.56	45	W	1	0	30.62	+ 03	45	42	+ 2	W	1	cm	*	48	42		
	Shields ...	30.61	45	NSW	2	0	30.64	+ 02	43	40	+ 4	WNW	1	0	2	50	36		
	Spurn Head ...	30.63	40	NW	2	bm	30.67	+ 02	37	36	- 1	Z	0	cm	1	48	35		
	York ...	30.65	43	W	1	C	30.67	- 00	41	39	+ 8	W	1	0	*	48	31		
	Loughborough	30.66	39	SW	1	b	30.70	+ 01	26	26	- 4	Z	0	f	*	53	26		
GERMANY & HOLLAND.	Ardrossan ...	30.58	45	SEW	2	0	30.61	+ 01	44	43	0	SEW	2	0	1	45	43		
	Malin Head ...	30.49	45	S	4	0	30.55	- 01	42	41	- 1	SSE	3	0m	2	45	41		
	Mullaghmore ...	30.54	49	S	4	0	30.56	00	40	39	- 6	N	1	b	2	50	40		
	Belmullet ...	30.51	48	SW	2	0	30.53	- 01	44	42	- 4	S	2	b	*	50	44		
	Donaghadee ...	30.61	44	SSW	2	C	30.67	+ 04	40	40	+ 2	SSW	2	m	0	47	38		
	Liverpool (Bidston)	30.66	44	W	1	0	30.70	+ 01	32	32	- 6	SSE	1	f	1	47	32		
	Holyhead ...	30.64	44	SSW	2	ogm	30.66	00	39	38	- 5	Z	0	bmw	0	46	38		
	Parsonstown ...	30.59	46	Z	0	0	30.62	+ 01	35	35	- 7	Z	0	bC	*	48	34		
	Valencia ...	30.58	48	S	4	0m	30.58	- 01	48	45	- 2	ENE	2	bm	3	50	42		
	Roche's Point...	30.62	46	SSW	3	b	30.63	00	45	43	- 3	SE	3	bm	3	50	41		
FRANCE AND BELGIUM.	Pembroke (St. Ann's Hd.)	30.66	42	SSE	2	b	30.67	- 01	37	37	0	E	2	m	2	46	37		
	Scilly ...	30.60	47	ENE	4	b	30.60	- 04	47	46	+ 2	ENE	4	m	4	49	43		
	Prawle Point ...	30.65	46	NE	2	b	30.65	- 04	43	41	+ 1	NE	4	bm	2	56	40		
	Jersey (St. Aubin's)	30.61	49	NE	2	bm	30.63	- 05	41	40	0	NE	3	bmw	3	53	40		
	Hurst Castle ...	30.64	44	Z	0	m	30.68	- 01	35	35	+ 4	ENE	1	f	0	51	30		
	Dungeness ...	30.63	41	NE	2	f	30.67	00	37	36	+ 4	NE	2	m	1	53	31		
	London ...	30.65	34	Z	0	0	30.70	+ 01	32	31	- 1	Z	0	f	*	52	30		
	Oxford ...	30.67	34	Z	0	0	30.72	+ 02	26	26	- 3	Z	0	f	*	51	26		
	Cambridge ...	30.66	37	Z	0	b	30.71	+ 02	29	29	- 3	Z	0	f	*	51	26		
	Yarmouth ...	30.64	39	Z	0	b	30.67	+ 02	27	27	- 7	N	1	f	2	41	25		
PENIN- SULA.	Cuxhaven ...	30.63	36	WNW	2	0	30.65	+ 03	35	34	- 3	WNW	2	0	*	38	34		
	Berlin ...	30.52	42	NW	5	C	30.58	+ 03	35	34	- 2	NW	3	0	*	43	34		
	Wiesbaden ...	*	*	*	*	*	30.64	+ 01	32	31	+ 1	N	1	0	*	39	31		
	Munich ...	30.57	28	SW	1	b	30.59	- 02	27	27	0	SW	1	f	*	36	21		
	The Helder ...	30.69	30	S	1	b	30.69	+ 02	32	32	- 1	SEW	1	f	1	37	28		
	Brussels (9 a.m.)	*	*	*	*	*	30.70	+ 02	28	28	0	Z	0	f	*	37	28		
	Cape Gris Nez	30.62	41	ENE	1	f	30.64	- 01	30	30	- 9	E	4	f	3	46	28		
	Paris ...	30.59	42	NE	2	b	30.62	- 01	30	29	- 2	N	2	f	*	51	30		
	Brest ...	30.55	50	ESE	3	b	30.58	- 04	42	40	+ 4	E	2	b	3	52	34		
	Lorient ...	30.53	53	ENE	3	b	30.54	- 06	41	39	+ 2	ENE	2	b	4	57	39		
GERMANY & HOLLAND.	Rochefort ...	30.50	50	E	4	b	30.44	- 04	36	36	+ 1	ENE	3	b	*	55	27		
	Belfort ...	?	32	NE	2	0	?	?	34	?	- 2	NE	2	f	*	45	30		
	Lyons ...	30.52	37	S	1	b	30.56	00	28	27	+ 2	W	1	b	*	44	26		
	Nice ...	30.37	48	SW	3	b	30.30	- 13	46	37	+ 6	E	4	b	1	67	40		
	Perpignan ...	30.42	41	E	1	b	30.42	- 06	31	31	+ 1	SW	1	b	*	54	30		
	Biarritz ...	30.39	49	E	2	b	30.39	- 05	37	35	- 5	SE	3	b	1	54	34		

WEATHER CHARTS

for 8 a.m. on Wednesday, 18th February, 1891.

BAROMETER, WIND AND SEA.

EXPLANATION OF MAP

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

Changes since previous morning are stated in words.

WIND—Arrows show the prevalent winds. They fly with the wind and

their barbs and feathers refer to force thus—

→ forces above 10; → forces 8 to 10;

→ forces 5 to 7; → forces 1 to 4.

○ = dead calm.

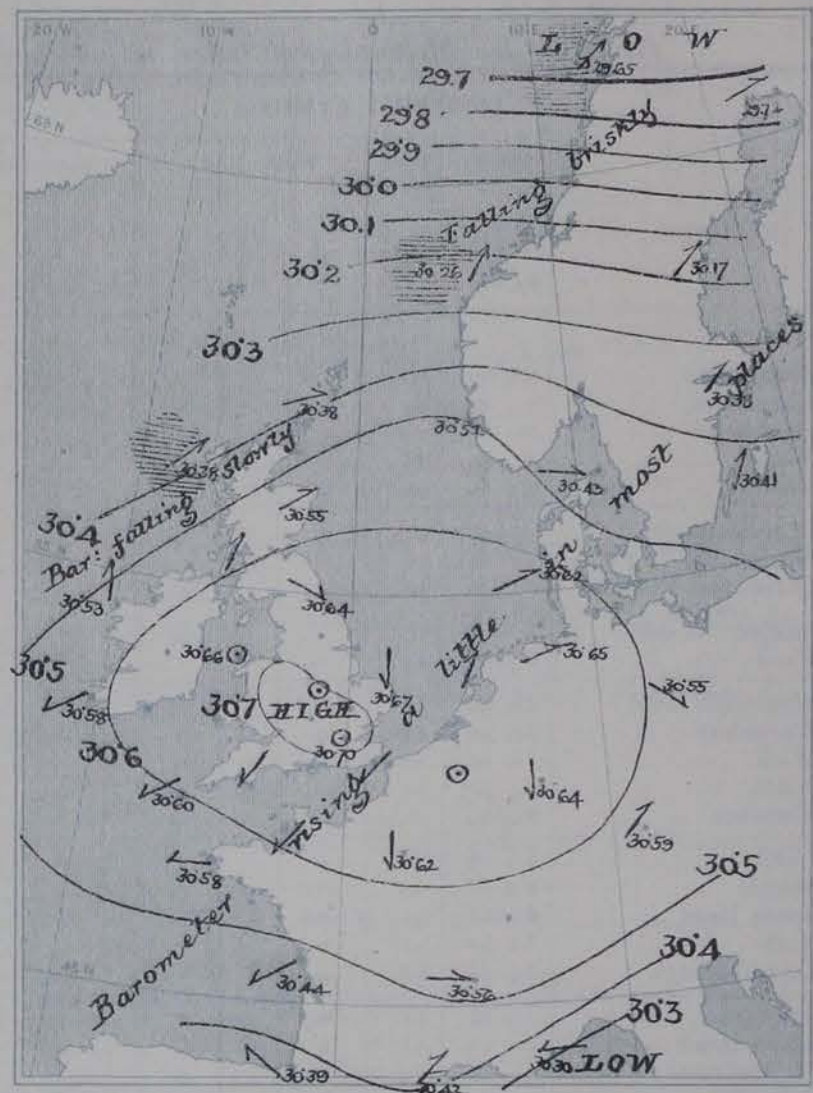
SEA DISTURBANCE—Where considerable, is shown thus—

≡ = Rough. ≡ = High.

MEAN HEIGHT OF THE BAROMETER

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

STATIONS.	MEAN READINGS.
Sumburgh Head	29.775
Stornoway	29.773
Wick	29.804
Nairn	29.811
Aberdeen	29.848
Leith	29.870
Shields	29.909
Spurn Head	29.934
York	29.939
Loughborough	29.963
Ardrossan	29.873
Mullaghmore	29.842
Donaghadee	29.884
Holyhead	29.914
Liverpool	29.934
Parsonstown	29.946
Valencia	29.919
Roche's Point	29.913
Pembroke	29.947
Silly	29.959
Prawle Point	29.993
Jersey	30.007
Hurst Castle	29.980
Dover	29.985
LONDON	29.989
Oxford	29.985
Cambridge	29.979
Yarmouth	29.961



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

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

WEATHER—is shown by letters of the Beaufort Scale.

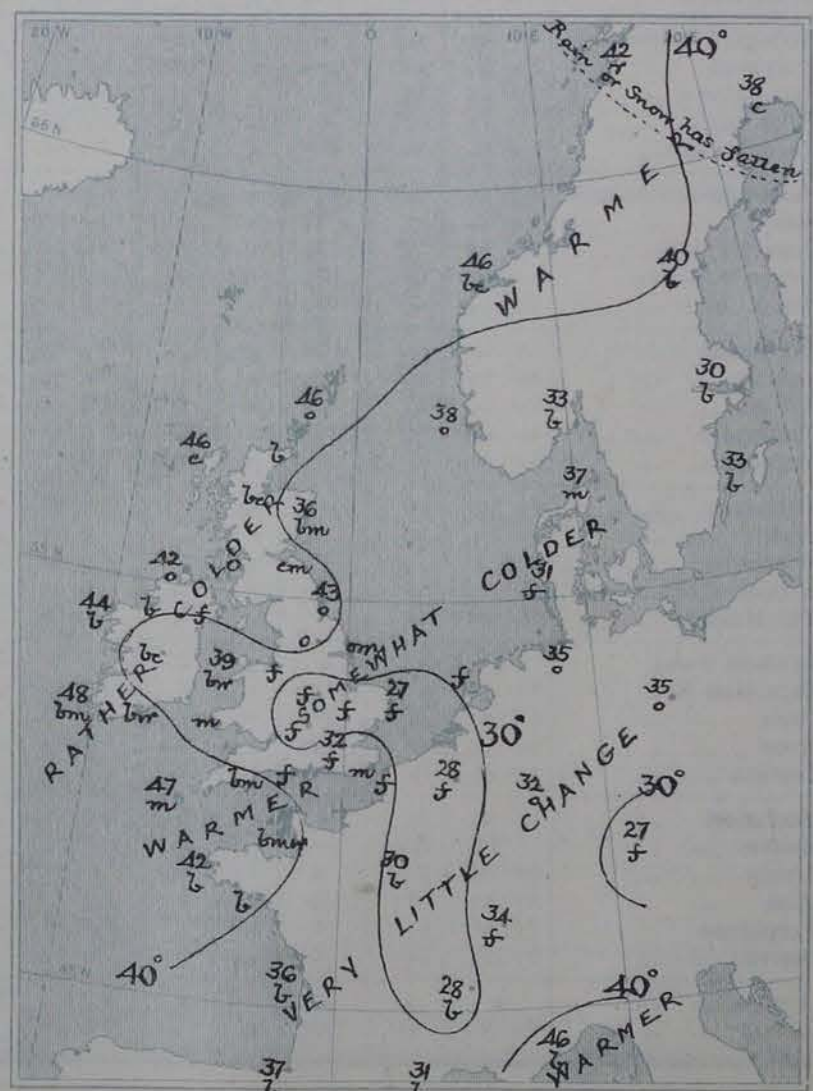
RAINFALL—A dotted line separates the districts in which rain has fallen from those where there has been none. Falls of 0.5 in. or more are quoted in figures.

MEANS OF TEMPERATURE IN SHADE, AND RAINFALL.

(For the month of February.)

STATIONS.	TEMPERATURE.				RAINFALL. (inches.)
	Daily Max.	Daily Min.	at 8 a.m. Dry.	Wet.	
Sumburgh Head	42.4	34.5	38.5	37.4	3.19
Stornoway	43.5	31.6	39.1	38.1	3.86
Wick	43.1	33.2	38.1	36.7	2.04
Nairn	43.4	31.4	37.1	35.4	1.48
Aberdeen	43.2	33.8	37.3	35.7	2.35
Leith	43.7	34.3	38.6	37.4	1.46
Shields	43.8	35.1	38.6	37.3	1.50
Spurn Head	42.8	35.5	38.4	37.6	1.36
York	44.0	33.9	37.5	36.4	1.70
Loughborough	45.3	33.9	37.5	36.4	1.78
Ardrossan	44.5	36.3	39.4	38.2	3.04
Mullaghmore	46.6	34.6	42.0	40.3	2.80
Donaghadee	45.5	36.9	40.3	39.3	2.42
Holyhead	45.5	38.7	41.5	40.1	2.60
Liverpool	44.5	36.2	38.9	37.3	1.69
Parsonstown	45.2	35.6	39.1	38.1	2.20
Valencia	49.7	40.7	44.6	42.9	4.95
Roche's Point	48.4	39.5	43.1	41.6	4.43
Pembroke	44.5	39.4	42.1	40.9	2.82
Silly	48.9	42.8	45.0	44.4	2.71
Prawle Point	46.8	38.1	41.5	40.5	2.02
Jersey	46.9	39.3	42.3	41.0	2.55
Hurst Castle	45.7	36.7	40.3	39.3	2.30
Dover	44.4	36.1	39.2	38.1	1.95
LONDON	45.8	35.1	38.6	37.4	1.73
Oxford	45.0	34.9	37.9	36.8	1.92
Cambridge	45.5	32.8	37.8	36.2	1.46
Yarmouth	42.6	34.5	38.2	37.3	1.82

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



GENERAL SITUATION AT 8 A.M.

PRESSURE

Highest, 30.7 in. and upwards over Central England; 30.5 in. and upwards in a large anticyclone lying over the greater part of central and Western Europe.
Lowest, 29.7 in. and less, in a depression lying over the north of Scandinavia.
Gradients moderate over the north of Scandinavia, but slight elsewhere.
Barometer rising a little generally, but falling in Scandinavia and the extreme north of Scotland.

TEMPERATURE

Highest, 48° at Valencia Island, 47° at Kelly, 46° at Christiansund, Lumburgh Hd. and Bornesay.
Lowest, 26° at Loughborough and Oxford, 27° at Yarmouth and Munich, 28° at Lyons and 29° at Cambridge.

Sharp frost occurred over England last night, the sheltered thermometer falling to a minimum of 25° at Yarmouth, and 26° at Loughborough, Oxford and Cambridge.

WIND

SW over Scotland and Scandinavia; strong in the Hebrides and blowing a gale in the west of Norway.
Calm or variable over the central parts of the United Kingdom.
Light from the E. or NE. over France, Spain, and the south of our Islands.

WEATHER

Foggy over the greater part of England, Denmark, the Netherlands, the north of France and south Germany.
Fine in nearly all other localities, but rainy at Oslo.

SEA

Smooth generally, but rather rough off the Hebrides and west of Norway.

PROBABLE CHANGES IN SYSTEM NOW PREVALENT

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

FORECASTS

For the 24 hours ending at NOON on 19TH FEB^R 1891.

DISTRICTS.

FORECASTS.

- | | | |
|---|------------------|---|
| 0 | SCOTLAND NORTH | SW ² winds, fresh; dull, rain locally. |
| 1 | SCOTLAND EAST | |
| 2 | ENGLAND N.E. | { SW ² winds, light; fair generally, but some fog or mist. |
| 3 | ENGLAND EAST | |
| 4 | MIDLAND COUNTIES | { Light Variable airs; cloudy, local fogs. |
| 5 | ENGLAND SOUTH | |

DISTRICTS.

FORECASTS.

- | | | |
|----|---------------|--|
| 6 | SCOTLAND WEST | Same as No. 1. |
| 7 | ENGLAND N.W. | |
| 8 | ENGLAND S.W. | E ² winds, moderate; fair generally but some fog or mist. |
| 9 | IRELAND NORTH | |
| 10 | IRELAND SOUTH | { S ² and SE ² winds, light; fair generally. |
| | | |

WARNINGS

NONE ISSUED.

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

YESTERDAY'S 2 P.M. REPORTS.

	BAR.	THER.		WIND		WEA.	SEA		BAR.	THER.		WIND		WEA.	SEA
		D.	W.	D.	F.					D.	W.	D.	F.		
Skudesnaes ...	30.55	39	37	E	1	0	2		Holyhead ...	30.65	45	43	SW	3	0
Sumburgh Head ...	30.41	48	44	W	3	0	3		Valencia ...	30.54	49	47	SE	5	0
Stornoway ...	30.42	48	47	SW	4	0	4		Scilly ...	30.61	49	46	ESE	4	0
Aberdeen ...	30.50	51	46	SSW	2	0	1		Jersey ...	30.65	52	47	NE	3	0
Shields ...	30.61	48	44	W	2	0	2		Dungeness ...	30.65	49	45	N	2	0
Ardrossan ...	30.58	45	44	SSW	3	0	2		London ...	30.66	47	44	Z	0	0
Malin Head ...	30.53	45	43	S	3	0	2		Yarmouth ...	30.64	41	40	Z	0	0
Mullaghmore ...	30.55	48	45	SSW	3	0	2		Rocheport ...	30.47	51	44	NE	3	0
Belmullet ...	30.52	50	44	SW	2	0	*								

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

Weather fine and bright over the Baltic and Sweden, as well as in Scotland, Brittany, Spain, the south of France, and the shores of the Mediterranean generally; very foggy over England, the Netherlands and their neighbourhood, as well as in the Kattegat and Sound, cloudy or overcast in Iceland and Norway, as well as over central Europe and southern Russia, snow falling at Kharkov. Dense fog in London all day, thick fog at the southern stations generally.

Temperature changing fitfully over northern and eastern Europe, not altering much elsewhere. Morning readings touching 50° at Valencia Island only, but exceeding 40° in the north and west of the British Isles, on the Spanish coast, and on the southern shores of the Mediterranean generally, as well as at Livna and Constantinople, much lower elsewhere. Lowest 8° F. both at Archangel and Kharkov, 11° at Moscow, 12° at Kiev, 14° at Nicolaiiff, 26° at Turin and Lyons, 28° at Brussels, 29° at Oxford, 30° at Loughborough. Rising to between 50° and 55° in many parts of our Islands, to 57° at Kiel, and to 60° at Lisbon.

Wind cyclonic N², over the whole of the Baltic (a gale at Helensfors) NW² over Germany and Austria; anticyclonic all over western Europe, nearly calm in most places, but E² over the Bay of Biscay, S² in Iceland, SW² to W² in Scotland; still N² over Italy, but decreasing greatly in strength. No important change reported later.

Barometer highest 30.7 ins. to 30.4 ins. in a large anticyclone covering the whole of the British Islands, western and part of central Europe; lowest, 29.5 ins. and less, in a depression over the north-westland provinces of Russia, and rather below 30.2 ins. over Greece. Gradients slight generally, but steep over the Baltic Provinces and eastern Russia. No great 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.

DAILY WEATHER REPORT.

for Thursday, 19th February, 1891.
Issued by the Meteorological Office, 63, Victoria Street, London. R. H. SCOTT, Secretary.

STATIONS.	YESTERDAY EVENING.						8 A.M. TO DAY.										PAST 24 HOURS.		
	BAROM.	TEMP.	WIND.		Weather.		BAROMETER.		SHADE TEMP.			WIND.		Weather.	Sea. (0 to 3.)	SHADE TEMP.		Amount of Rainfall.	
	Reading at 32° F. and Sea Level.	Dry.	Dirac.	Force. (0 to 12.)			Reading at 32° F. and Sea Level.	Difference from 8 a.m. yesterday.	Dry.	Wet.	Difference from 8 a.m. yesterday.	Dirac.	Force. (0 to 12.)			Max.	Min.		
SCANDINAVIA.	Haparanda ...	29.84	36	SW	2	b	29.79	+ .07	37	35	- 1	W	2	b	*	39	23	-	
	Hernösand ...	30.21	46	SW	2	o	30.22	+ .05	44	41	+ 4	Z	0	b	*	55	34	-	
	Stockholm ...	30.32	32	W/W	4	b	30.35	- .03	31	30	+ 1	Z	0	f	*	45	28	-	
	Wisby ...	30.38	35	SW	4	b	30.36	- .08	35	35	+ 2	W/W	4	o	*	41	30	-	
	Bodö ...	29.87	42	WSW	6	r	29.83	+ .18	44	43	+ 2	SW	7	o	†	?	41	0.20	
	Christiansund	30.30	45	SW	4	c	30.30	+ .04	47	46	+ 1	SW	4	c	5	47	45	0.04	
	Skudesnaes ...	30.54	38	Z	0	o	30.53	+ .01	34	34	- 4	Z	0	b	2	39	34	-	
	Christiania Fjord (Færd)	30.34	35	SSE	3	f	30.41	+ .04	30	28	- 3	NNE	2	f	1	39	28	-	
	Skagen (The Seaw)	30.39	38	W	3	b	30.38	- .05	31	34	- 3	Z	0	b	0	41	32	-	
	Fanö ...	30.62	33	WSW	2	f	30.56	- .06	34	34	+ 3	W	3	b	*	36	31	-	
BRITISH ISLANDS.	Sumburgh Head	30.42	46	WSW	3	o	30.40	+ .02	42	42	- 4	Z	0	o	3	48	39	-	
	Stornoway ...	30.43	49	SW	6	o	30.39	- .01	46	44	0	SW	4	b	4	48	43	-	
	Wick ...	30.50	43	Z	0	b	30.43	- .04	42	40	+ 1	S	1	b	0	51	32	-	
	Nairn ...	30.49	43	W	1	b	30.45	- .02	38	37	- 7	SW	1	b	1	50	37	-	
	Aberdeen ...	30.50	43	SSW	1	b	30.51	- .04	32	31	- 4	W	1	b	1	53	31	-	
	Leith ...	30.58	43	W	1	b	30.54	- .08	33	33	- 12	Z	0	f	*	49	30	-	
	Shields ...	30.60	44	WSW	1	b	30.55	- .09	33	32	- 10	SW	2	f	2	48	30	-	
	Spurn Head ...	30.64	40	S	1	b	30.59	- .08	31	30	- 6	Z	0	f	1	43	29	-	
	York ...	30.65	42	S	1	r	30.60	- .07	29	29	- 12	Z	0	f	*	47	26	-	
	Loughborough	30.67	31	WSW	1	f	30.63	- .07	27	27	+ 1	ESE	1	f	*	37	26	-	
BRITISH ISLANDS.	Ardrossan ...	30.59	45	SSW	2	b	30.44	- .07	36	35	- 8	Z	0	b	0	47	35	-	
	Malin Head ...	30.53	47	S	5	b	30.45	- .10	44	40	+ 2	S	3	b	2	49	41	-	
	Mullaghmore...	30.54	48	W	1	b	30.45	- .11	48	42	+ 8	SE	4	b	3	53	39	-	
	Belmullet ...	30.51	50	SSW	2	b	30.38	- .15	43	41	- 1	SSE	2	b	*	52	41	-	
	Donaghadee ...	30.59	44	SSW	2	b	30.54	- .13	31	31	- 9	SSW	2	f	0	50	28	-	
	Liverpool (Bidston)	30.65	43	ESE	1	m	30.57	- .13	32	32	0	ESE	3	f	3	45	30	-	
	Holyhead ...	30.64	45	Z	0	b	30.54	- .12	38	37	- 1	Z	0	b	0	52	37	-	
	Parsonstown ...	30.58	50	Z	0	b	30.49	- .15	37	36	+ 2	Z	0	b	*	58	31	-	
	Valencia ...	30.54	52	ESE	2	b	30.39	- .21	47	44	- 1	ESE	4	b	4	56	43	-	
	Roche's Point...	30.60	46	ESE	4	b	30.46	- .17	46	44	+ 1	ESE	4	m	4	52	41	-	
BRITISH ISLANDS.	Pembroke (St. Ann's Hd.)	30.63	48	SE	1	m	30.50	- .17	40	39	+ 3	E	4	m	3	52	37	-	
	Scilly ...	30.53	48	E	4	m	30.42	- .18	47	45	0	E	4	m	4	52	44	-	
	Prawle Point ...	30.61	45	NE	4	b	30.50	- .15	40	40	- 3	ESE	5	ogm	3	50	39	-	
	Jersey (St. Aubin's)	30.56	47	NE	4	b	30.47	- .16	37	35	- 4	ESE	4	b	3	52	36	-	
	Hurst Castle ...	30.64	42	ESE	2	m	30.55	- .13	35	35	0	E	4	gm	2	50	34	-	
	Dungeness ...	30.64	34	NE	3	f	30.56	- .11	35	35	- 2	E	5	f	3	37	32	0.03	
	London ...	30.69	35	ESE	1	b	30.59	- .11	33	33	+ 1	NE	1	f	*	42	29	0.01	
	Oxford ...	30.66	33	Z	0	f	30.61	- .11	24	24	- 2	Z	0	b	*	52	23	-	
	Cambridge ...	30.67	33	Z	0	f	30.62	- .09	29	28	0	Z	0	f	*	37	25	-	
	Yarmouth ...	30.65	33	Z	0	f	30.62	- .05	33	33	+ 6	Z	0	f	2	38	26	-	
GERMANY & HOLLAND.	Cuxhaven ...	30.68	36	W	2	o	30.67	+ .02	35	34	0	Z	0	f	*	36	33	-	
	Berlin ...	30.66	35	Z	0	b	30.63	+ .05	36	35	+ 1	W	2	o	*	39	30	-	
	Wiesbaden ...	*	*	*	*	*	30.61	- .03	28	27	- 4	Z	0	o	*	39	23	-	
	Munich ...	30.62	29	Z	0	b	30.58	- .01	12	12	- 15	NE	3	b	*	34	12	0.04	
	The Helder ...	30.70	33	SW	1	f	30.65	- .04	30	30	- 2	ESE	1	f	1	34	30	-	
	Brussels (9 a.m.)	*	*	*	*	*	30.59	- .11	30	30	+ 2	NE	2	c	*	34	29	-	
	Cape Gris Nez	30.62	32	E	3	f	30.55	- .09	31	31	+ 1	E	4	b	4	37	28	-	
	Paris ...	30.57	38	N	2	b	30.46	- .16	33	32	+ 3	NE	2	b	*	49	30	-	
	Brest ...	30.43	53	ESE	2	b	30.42	- .16	38	37	- 4	E	3	b	3	54	36	-	
	Lorient ...	30.45	51	E	3	b	30.39	- .17	39	35	- 2	ESE	3	b	4	57	34	-	
FRANCE AND BELGIUM.	Rochefort ...	30.40	50	ESE	4	b	30.26	- .18	33	32	- 3	ESE	5	m	4	59	23	-	
	Belfort ...	?	33	NNE	7	b	?	?	34	?	0	NNE	6	b	*	37	32	-	
	Lyons ...	30.40	40	N	1	b	30.45	- .11	30	30	+ 2	WSW	2	b	*	43	28	-	
	Nice ...	30.12	58	SE	2	b	30.38	+ .08	42	36	- 4	NE	3	b	3	70	41	-	
	Perpignan ...	30.20	59	W	3	b	30.34	- .08	32	30	+ 1	W	1	b	*	70	31	-	
	Biarritz ...	30.34	50	ESE	3	b	30.25	- .14	46	41	+ 9	SW	3	b	1	59	37	-	
	Corunna ...	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	
PENINSULA.	Lisbon ...	30.26	54	N	3	b	30.25	- .07	42	41	- 1	NNE	4	b	5	59	41	-	

WEATHER CHARTS

for 8 a.m. on *Thursday, 19th February, 1891.*

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.

WINDS—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:

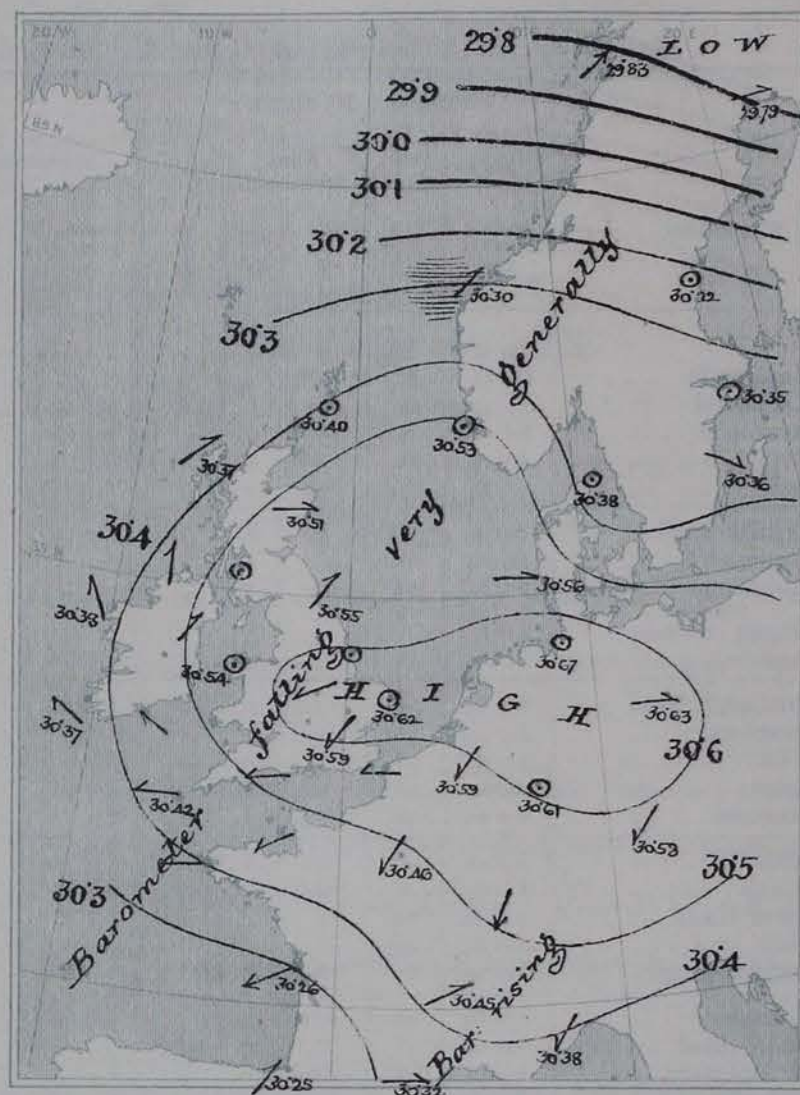
— Rough. — High.

MEAN HEIGHT OF THE BAROMETER

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

During the 20 Years: 1871—1890.

STATIONS.	MEAN READINGS.
Sumburgh Head	29.775
Stornoway	29.773
Wick	29.804
Nairn	29.811
Aberdeen	29.848
Leith	29.870
Shields	29.906
Spurn Head	29.934
York	29.939
Loughborough	29.963
Ardrossan	29.873
Mullaghmore	29.842
Donaghadee	29.881
Holyhead	29.911
Liverpool	29.934
Parsonstown	29.946
Valencia	29.919
Roche's Point	29.913
Pembroke	29.917
Sailly	29.959
Prawle Point	29.903
Jersey	30.007
Hurst Castle	29.986
Dover	29.986
LONDON	29.989
Oxford	29.985
Cambridge	29.979
Yarmouth	29.964



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

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

WEATHER—is shown by letters of the Beaufort Scale.

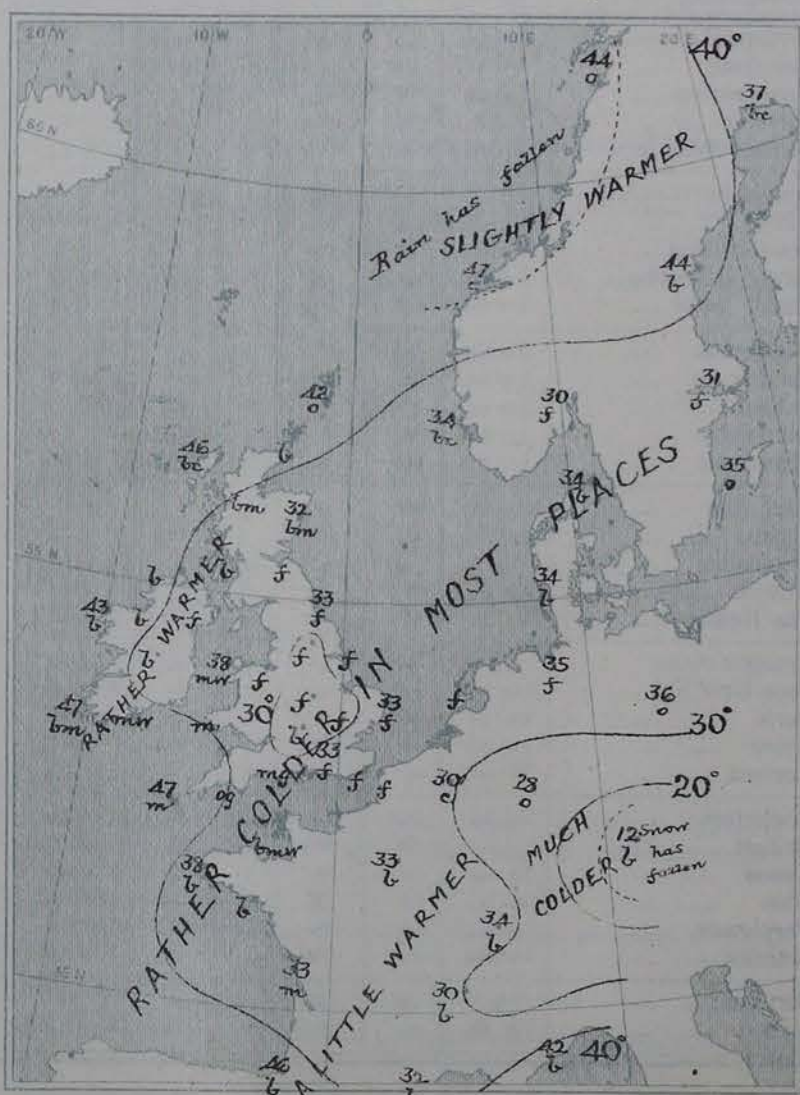
RAINFALL—A dotted line separates the districts in which rain has fallen from those where there has been none. Falls of 0.5 in. or more are quoted in figures.

MEANS OF TEMPERATURE IN SHADE, AND RAINFALL.

(For the month of February.)

STATIONS.	TEMPERATURE.				RAINFALL. (Inches.)
	Daily Max.	Daily Min.	At 8 a.m.		
			Dry.	Wet.	
Sumburgh Head.....	42.4	31.5	38.6	37.4	3.19
Stornoway.....	43.5	31.6	39.1	38.1	3.86
Wick.....	43.1	33.2	38.1	36.7	2.04
Nairn.....	43.4	31.4	37.1	35.4	1.48
Aberdeen.....	43.2	33.8	37.3	35.7	2.35
Leith.....	43.7	31.3	38.6	37.1	1.45
Shields.....	43.8	35.1	38.6	37.3	1.50
Spurn Head.....	42.8	35.5	38.4	37.6	1.36
York.....	41.6	33.9	37.5	36.4	1.70
Loughborough.....	45.4	33.9	37.5	36.1	1.78
Ardrossan.....	41.6	36.4	39.4	38.2	3.04
Mullaghmore.....	46.6	38.6	42.0	40.3	2.80
Donaghadee.....	45.5	36.9	40.3	39.3	2.42
Holyhead.....	45.5	38.7	41.5	40.1	2.60
Liverpool.....	44.5	36.2	38.9	37.3	1.69
Parsonstown.....	46.9	35.6	39.4	38.1	2.20
Valencia.....	49.7	40.7	44.6	42.9	4.95
Roche's Point.....	48.4	39.6	43.1	41.6	4.43
Pembroke.....	45.5	39.4	42.1	40.9	2.82
Sailly.....	48.9	42.8	45.0	44.4	2.71
Prawle Point.....	46.8	34.1	41.5	40.5	2.02
Jersey.....	46.9	39.3	42.3	41.0	2.55
Hurst Castle.....	45.7	36.7	40.3	39.3	2.30
Dover.....	44.4	36.1	39.2	38.1	1.95
LONDON.....	45.8	35.1	38.6	37.4	1.73
Oxford.....	45.0	34.9	37.9	36.8	1.92
Cambridge.....	45.5	32.8	37.3	36.2	1.46
Yarmouth.....	42.6	34.5	38.2	37.3	1.82

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



GENERAL SITUATION AT 8 A.M.

PRESSURE

Highest, 30.6 in: and upwards, in an anticyclone extending from Germany to the eastern and central parts of England.
 Lowest, 29.8 in: and less, in a depression lying over the north of Scandinavia, 30.3 in: and less, over Spain and the southwest of France.
 Gradients moderate over the north of Scandinavia, but slight elsewhere.
 Barometer falling at all but the Swedish stations, - most over France and the south of our Islands.

TEMPERATURE

Highest, 48° at Mullaghmore, 47° at Christiansund, Valencia Island and Scilly, and 46° at Stromsøy, Høcheil and Biarritz.
 Lowest, 12° at Munich, 24° at Oxford, 27° at Loughborough, 28° at Wiesbaden, and 29° at York and Cambridge.

During yesterday the thermometer exceeded 50° at several of our southern, western, and northern stations, but in the southeast of England it did not reach 40°.

WIND

Moderate from the E^W or NE^W over France, the Netherlands, and the southern parts of our Islands and Germany.
 Light from the S^W on our extreme west and northwest coasts.

Calm or light and variable over the eastern and central parts of England, as well as in Sweden, Denmark, and the south of Norway.

WEATHER

Foggy or misty over the greater part of the United Kingdom as well as over Holland and North Germany.
 Fine in nearly all other localities.

Rain fell yesterday in the west of Norway.

SEA

Rather rough at Christiansund and moderate on our southwest coasts, but slight or smooth elsewhere.

PROBABLE CHANGES IN SYSTEM NOW PREVALENT

The present tendency is for some increase in the force of the E^W winds on our southern coasts, so that the fog is likely to dissipate in those districts. No further change in the weather is indicated.

FORECASTS

For the 24 hours ending at NOON on 20TH Feb^R 1891.

DISTRICTS.

FORECASTS.

0	SCOTLAND NORTH	S ^W and SW ^W winds, light; fair generally.
1	SCOTLAND EAST	Light breezes, chiefly SW ^W ; fair generally, but some mist or fog.
2	ENGLAND N.E.	
3	ENGLAND EAST	E ^W and NE ^W winds, freshening; fair generally.
4	MIDLAND COUNTIES	
5	ENGLAND SOUTH	

DISTRICTS.

FORECASTS.

6	SCOTLAND WEST	Variable and SE ^W airs; fair generally, but local fogs.
7	ENGLAND N.W.	
8	ENGLAND S.W.	E ^W winds, freshening; fair generally.
9	IRELAND NORTH	SE ^W winds, freshening; fair generally.
10	IRELAND SOUTH	

WARNINGS

NONE ISSUED.

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

YESTERDAY'S 2 P.M. REPORTS.

	BAR:	THER:		WIND		WEA.	SEA		BAR:	THER:		WIND		WEA.	SEA
		D.	W.	D.	F.					D.	W.	D.	F.		
Skudesnaes ...	30.52	39	38	E	2	of	2	Holyhead ...	30.66	50	45	SEW	1	6	1
Sumburgh Head ...	30.42	47	45	NSW	3	0	4	Valencia ...	30.56	50	51	SE	3	6m	3
Stornoway ...	30.42	48	45	SW	6	0	6	Scilly ...	30.56	52	48	EHE	4	m	4
Aberdeen ...	30.50	52	47	S	2	6	1	Jersey ...	30.59	52	44	NE	4	6	3
Shields ...	30.64	47	42	S	2	C	2	Dungeness ...	30.67	37	36	NE	3	f	2
Ardrossan ...	30.60	47	46	SEW	2	6	1	London ...	30.69	41	40	Z	0	f	2
Mulin Head ...	30.55	49	45	SSW	3	6	2	Yarmouth ...	30.66	38	37	NHE	2	f	2
Mullaghmore ...	30.56	49	46	N	2	6	2	Rocheport ...	30.43	54	48	EHE	3	6	2
Belmullet ...	30.53	53	49	SW	2	6	*								

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

Weather fine and bright over Scandinavia, Scotland, Ireland, the west and south of France and the Iberian Peninsula and at most of the Mediterranean stations; very foggy over England, the North Sea, the Netherlands, Germany, and the east of France, but especially in London, where it was very dense and low; dull over Finland and northern Russia, variable over southern Russia; snow falling at Constantinople again. The fog continuing with slight exceptions, and becoming wet over the southeast of England, rain falling in the north of Norway.

Temperature changing little and irregularly in most places, fallen decidedly over Russia. Morning readings touching 50° at Brindisi, Algiers and San Fernando only, but exceeding 40° at most of the southern European stations, as well as on the Atlantic coast of the British Isles and Norway, much lower elsewhere. Lowest (1) - 4° F. at Moscow, 0° at Archangel, +1° at Kiev, 9° at St. Petersburg, 12° at Nicolaioff and Kharkov, 20° at Riga, 27° at Munich, 28° at Lyons and Brussels, 30° at Paris; (2) 26° at Loughborough and Oxford, 29° at Cambridge, 32° in London. Rising to between 50° and 55° at our western stations later, remaining low in the southeast and east, but touching 70° at Nice and Perpignan.

Wind blowing a gale from SSW in the northwest of Norway, and a moderate SW to W breeze over the Gulf of Finland and Bothnia; N to NW, moderate over Southeastern Europe, N to NE, strong over the Adriatic. Light variable and anticyclonic over western Europe, as a whole, but chiefly E over the Bay of Biscay, S in Ireland, and SW in Scotland. Backing to the SE on our southwestern coast later, and E wind setting in over the southeast of England.

Barometer highest 30.7 in. to 30.4 in. in a large anticyclone covering the British Isles, North Sea, and the northern parts of France and Germany, with the Sound; lowest 29.7 in. and less, in a low pressure area over Lapland, and 29.9 in. and less, in another over the Black Sea; gradient moderate over southeastern Europe and in the extreme north, slight elsewhere. Falling slightly in our Islands later.

EXPLANATION OF COLUMNS GIVEN ON PAGE 1.

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

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

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

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

DAILY WEATHER REPORT.

for Friday 20th February.

1891.

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.			BAROMETER.		SHADE TEMP.			WIND.					SHADE TEMP.		Amount of Rainfall.
	Reading at 32° F. and Sea Level.	Dry.	Dirac.	Force. (0 to 12.)		Reading at 32° F. and Sea Level.	Difference from 8 a.m. yesterday.	Dry.	Wet.	Difference from 8 a.m. yesterday.	Dirac.	Force. (0 to 12.)				Max.	Min.	
SCANDINAVIA.	Haparanda ...	29.70	39	SW	4	0	29.57	-22	41	40	+4	W	6	6	*	41	27	—
	Hernösand ...	30.17	36	W	0	6	30.04	-18	42	37	-2	W	0	6	*	35	34	—
	Stockholm ...	30.33	30	W	2	6	30.26	-09	27	28	-2	WSW	2	6	*	34	28	—
	Wisby ...	30.38	36	W	4	0	30.34	-02	34	33	-1	W	4	0	*	37	32	—
	Bodö ...	29.68	45	SW	1	0	29.80	-03	40	39	-4	W	6	m	4	45	37	0.08
	Christiansund ...	30.18	50	WSW	7	6	30.19	-11	44	42	-2	WSW	8	C	5	50	43	—
	Skudesnaes ...	30.48	39	E	1	6	30.39	-14	37	37	+3	SE	2	f	2	?	34	—
	Christiania Fjord (Færdier) ...	30.37	37	WSW	2	6	30.31	-10	30	30	0	W	0	f	1	37	30	—
	Skagen (The Scaw) ...	30.01	35	W	0	6	30.24	-04	36	36	+2	W	3	m	2	41	31	—
	Fanö ...	30.00	34	W	4	6	30.45	-11	33	33	-1	WSW	2	f	*	36	32	—
BRITISH ISLANDS.	Sumburgh Head ...	30.29	44	S	1	6	30.28	-12	42	41	0	W	0	C	2	50	41	—
	Stornoway ...	30.28	46	SW	3	6	30.27	-10	44	43	-2	W	4	C	4	53	38	—
	Wick ...	30.32	40	S	2	6	30.30	-10	30	29	-12	W	0	C	0	52	30	—
	Nairn ...	30.31	52	SW	2	6	30.31	-14	34	31	-4	W	0	bm	1	59	31	—
	Aberdeen ...	30.38	47	S	2	6m	30.36	-15	31	29	-1	W	1	bm	1	51	29	—
	Leith ...	30.42	41	W	1	6	30.37	-17	29	28	-4	W	0	f	*	53	27	—
	Shields ...	30.45	46	SW	1	6m	30.38	-17	30	29	-2	SW	1	f	2	56	28	—
	Spurn Head ...	30.53	32	SE	3	f	30.44	-15	34	33	+3	ENE	3	f	3	37	30	0.01
	York ...	30.49	34	S	1	f	30.44	-16	27	27	-2	S	1	f	*	35	25	0.01
	Loughborough ...	30.51	33	E	1	f	30.43	-20	28	28	+1	E	2	bm	*	37	26	—
GERMANY & HOLLAND.	Ardrossan ...	30.42	45	W	0	6m	30.36	-18	37	36	+1	ENE	1	Cf	0	50	35	—
	Malin Head ...	30.32	50	SE	2	6m	30.29	-16	41	37	-3	S	1	Cf	2	54	40	—
	Mullaghmore ...	30.34	50	E	1	6	30.30	-15	37	36	-11	NE	3	f	4	56	35	—
	Belmullet ...	30.28	47	NE	1	6	30.29	-09	38	38	-5	E	1	bm	*	52	38	—
	Donaghadee ...	30.42	44	S	2	f	30.30	-19	31	31	0	S	2	f	0	48	29	—
	Liverpool (Bidston) ...	30.44	47	SE	3	6	30.38	-19	28	28	-4	ENE	4	of	3	50	28	—
	Holyhead ...	30.40	45	NNW	1	6	30.33	-21	41	38	+3	W	0	bm	0	53	38	—
	Parsonstown ...	30.38	48	W	0	6	30.31	-16	27	26	-10	W	0	f	*	53	26	—
	Valencia ...	30.32	49	W	0	6m	30.25	-12	35	34	-12	W	0	bf	1	52	33	—
	Roche's Point ...	30.35	46	ENE	5	m	30.28	-18	43	41	-3	ENE	4	m	4	52	37	—
FRANCE AND BELGIUM.	Pembroke (St. Ann's Hd.) ...	30.35	45	ENE	4	m	30.32	-18	36	36	-4	ENE	4	mg	3	49	35	—
	Scilly ...	30.26	44	E	5	0	30.21	-21	44	42	-3	ENE	3	C	4	48	40	—
	Prawle Point ...	30.33	42	ENE	6	6	30.30	-20	42	42	+2	ENE	4	Cm	3	42	38	—
	Jersey (St. Aubin's) ...	30.31	43	ENE	4	6m	30.32	-15	40	38	+3	SE	3	bm	3	45	36	—
	Hurst Castle ...	30.38	40	NE	5	m	30.35	-20	32	32	-3	NE	4	m	3	45	31	—
	Dungeness ...	30.42	35	E	5	f	30.38	-18	35	35	0	E	4	f	3	37	33	—
	London ...	30.48	35	E	3	0	30.37	-20	33	33	0	ENE	1	mg	0	37	33	—
	Oxford ...	30.48	33	E	3	0	30.41	-20	30	30	+6	E	1	of	*	37	24	—
	Cambridge ...	30.53	34	W	0	0	30.43	-19	32	31	+3	W	0	of	*	36	27	—
	Yarmouth ...	30.52	34	SE	2	f	30.43	-19	33	33	0	ENE	3	f	3	34	30	0.02
GERMANY & HOLLAND.	Cuxhaven ...	30.57	36	W	2	0	30.51	-16	35	34	0	NNW	1	f	0	39	33	—
	Berlin ...	30.54	36	NNW	2	0	30.46	-17	34	33	-2	NNW	3	f	*	37	32	—
	Wiesbaden ...	30.50	35	W	1	6	30.47	-14	28	28	0	W	0	f	*	43	27	—
	Munich ...	30.50	25	SE	3	6	30.45	-13	15	15	+3	W	3	m	*	32	12	—
	The Helder ...	30.56	31	E	1	f	30.47	-18	29	29	-1	E	1	f	1	32	28	—
	Brussels (a.m.) ...	30.41	33	NE	5	f	30.43	-16	37	32	+7	ENE	2	f	*	39	30	—
	Cape Gris Nez ...	30.38	45	ENE	2	6	30.36	-19	29	28	-2	E	3	m	3	41	27	—
	Paris ...	30.26	48	S	1	6	30.39	-07	28	28	-5	ENE	1	f	*	51	28	—
	Brest ...	30.26	48	S	1	6	30.28	-14	43	41	+5	E	3	0	3	57	36	—
	Lorient ...	30.28	40	SE	2	6	30.29	-08	43	40	+4	WSW	2	0	4	50	36	—
FRANCE AND BELGIUM.	Roche fort ...	30.24	44	NNW	2	6	30.32	+06	35	35	+2	E	2	f	*	52	27	—
	Belfort ...	?	32	ENE	3	6	?	?	32	?	+2	NNW	3	f	*	45	29	—
	Lyons ...	30.41	46	SW	4	6	30.44	+06	40	36	-2	ENE	2	C	3	54	37	—
	Nice ...	30.37	49	E	2	6	30.41	+07	37	36	+5	W	2	f	*	58	?	—
	Perpignan ...	30.23	58	SE	3	6	30.29	+04	48	40	+2	S	2	f	2	58	39	—
	Biarritz ...	30.23	58	SE	3	6	30.29	+04	48	40	+2	S	2	f	2	58	39	—
	Corunna ...	30.19	53	W	5	6	30.21	-04	47	46	+5	ENE	4	0	?	61	?	—
	Lisbon ...	30.19	53	W	5	6	30.21	-04	47	46	+5	ENE	4	0	?	61	?	—
	Peninsular ...	30.19	53	W	5	6	30.21	-04	47	46	+5	ENE	4	0	?	61	?	—
	Peninsular ...	30.19	53	W	5	6	30.21	-04	47	46	+5	ENE	4	0	?	61	?	—

WEATHER CHARTS

for 8 a.m. on 20th February, 1891.

BAROMETER, WIND AND SEA.

EXPLANATION OF MAP

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

Changes since previous morning are stated in words.

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

→ forces above 10; → forces 8 to 10;
→ forces 5 to 7; → forces 1 to 4.
○ = dead calm.

SEA DISTURBANCE—Where considerable, is shown thus:

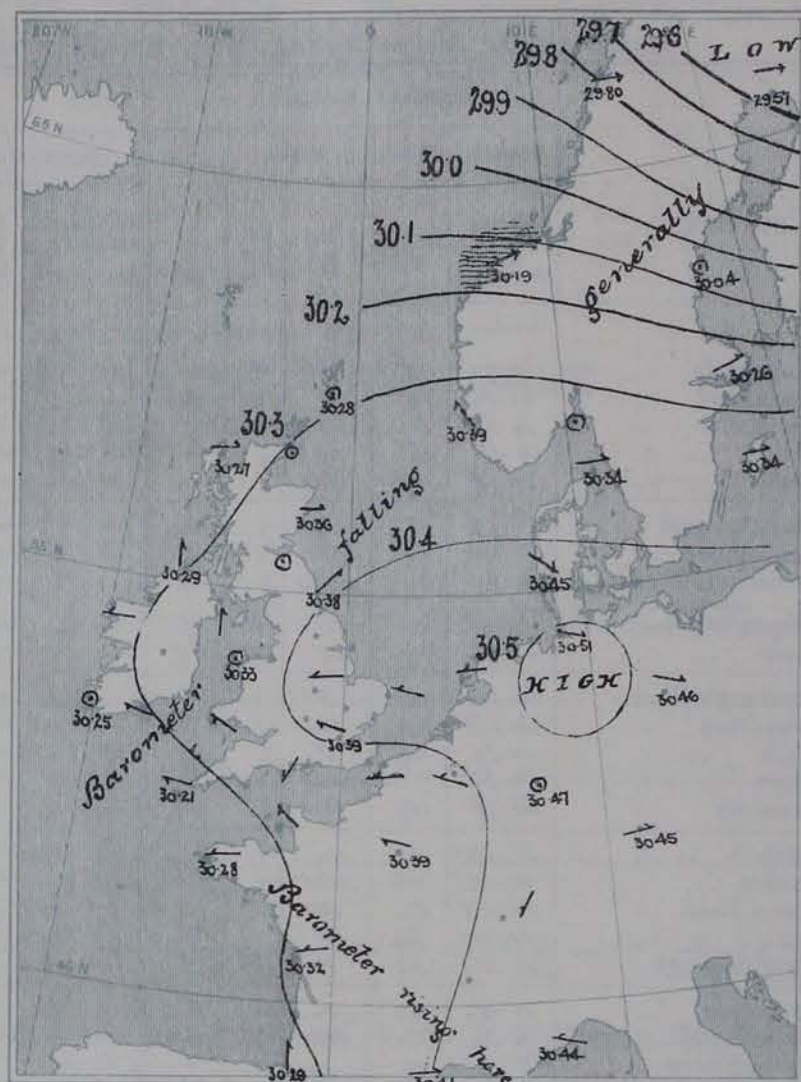
▨ = Rough. ▨ = High.

MEAN HEIGHT OF THE BAROMETER

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

During the 20 Years: 1871—1890.

STATIONS.	MEAN READINGS.
Sumburgh Head	29.775
Stornoway	29.773
Wick	29.804
Nairn	29.814
Aberdeen	29.848
Leith	29.870
Shield	29.906
Spurn Head	29.934
York	29.939
Loughborough	29.963
Ardrossan	29.873
Mullaghmore	29.842
Donaghadee	29.884
Holyhead	29.914
Liverpool	29.934
Parsonstown	29.946
Valencia	29.919
Roche's Point	29.916
Pembroke	29.917
Saillly	29.959
Prawle Point	29.993
Jersey	30.007
Hurst Castle	29.986
Dover	29.985
LONDON	29.989
Oxford	29.985
Cambridge	29.979
Yarmouth	29.964



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

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

WEATHER—is shown by Letters of the Beaufort Scale.

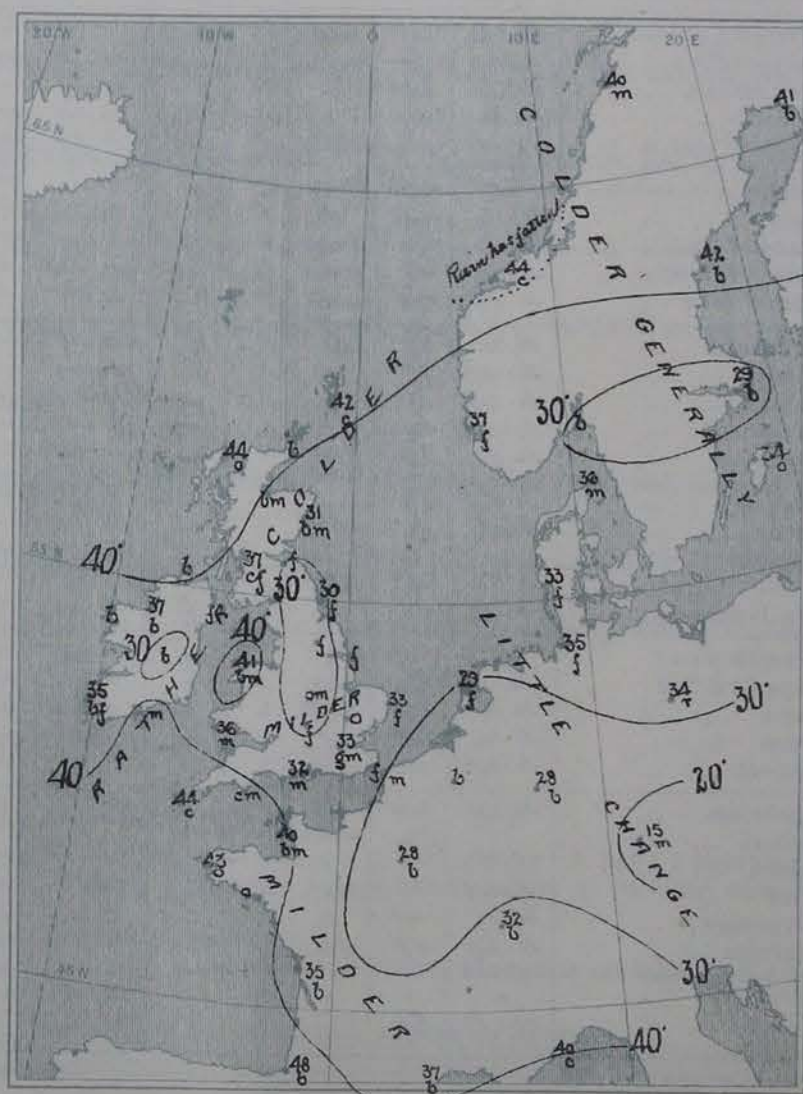
RAINFALL—A dotted line separates the districts in which rain has fallen from those where there has been none. Falls of 0.5 in. or more are quoted in figures.

MEANS OF TEMPERATURE IN SHADE, AND RAINFALL.

(For the month of February.)

STATIONS.	TEMPERATURE.				RAINFALL. (Inches.)
	Daily Max.	Daily Min.	at 8 a.m.		
			Dry.	Wet.	
Sumburgh Head.....	42.4	34.5	38.5	37.4	3.19
Stornoway	43.5	34.6	39.1	38.1	3.86
Wick.....	43.1	33.2	38.1	36.7	2.04
Nairn.....	42.4	34.4	37.1	35.4	1.48
Aberdeen.....	43.2	33.8	37.3	35.7	2.35
Leith.....	45.7	34.3	38.6	37.1	1.45
Shield.....	43.8	35.1	38.6	37.3	1.50
Spurn Head.....	42.8	35.5	38.4	37.6	1.36
York.....	44.6	33.9	37.5	36.4	1.70
Loughborough	45.3	33.9	37.5	36.4	1.78
Ardrossan.....	44.6	36.3	39.4	38.2	3.04
Mullaghmore	46.6	34.6	42.0	40.3	2.80
Donaghadee.....	45.5	36.9	40.3	39.3	2.42
Holyhead.....	45.5	38.7	41.5	40.1	2.60
Liverpool.....	44.5	36.2	38.9	37.3	1.69
Parsonstown	46.9	35.6	39.4	38.1	2.20
Valencia.....	49.7	40.7	44.6	42.9	4.95
Roche's Point	48.4	39.6	43.1	41.6	4.43
Pembroke.....	45.5	30.4	42.1	40.9	2.82
Saillly.....	43.9	42.8	45.0	44.4	2.71
Prawle Point	46.8	33.1	41.5	40.5	2.02
Jersey.....	46.9	39.3	42.3	41.0	2.55
Hurst Castle	45.7	36.7	40.3	39.3	2.30
Dover.....	44.4	36.1	39.2	38.1	1.95
LONDON	45.8	35.1	38.6	37.4	1.73
Oxford.....	45.0	34.9	37.9	36.8	1.92
Cambridge.....	45.5	32.8	37.3	36.2	1.46
Yarmouth.....	42.6	34.5	38.2	37.3	1.82

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



GENERAL SITUATION AT 8 A.M.

PRESSURE

Highest, 30.4 in. to 30.5 in., in an anticyclone lying over Germany, the Netherlands, the eastern part of England and France and the southern part of the North Sea.
Lowest, 29.6 in. and less, in a depression lying over Lapland.

Gradients moderate over the north of Scandinavia, but slight elsewhere.

Barometer falling at all but the French stations, where a slight rise is reported.

TEMPERATURE

Highest, 48° at Biarritz, 47° at Lisbon, 44° at Christiansund, Stornoway and Scilly, and 43° at Rocherbour, Brest, and Lorient.

Lowest, 15° at Munich, 27° at York and Rensselaer, and 28° at Loughborough, Liverpool, Minsk, and Paris.

During yesterday the thermometer rose to 56° at Shields and Mallowmore and 59° at Kairi. In London it did not exceed 37°, and at Yarmouth, 34°.

WIND

Light or moderate from the E^{se} over France, the Netherlands, and the southern part of the United Kingdom.

Calm or light from the S^{se} or W^{se} in the north of our Islands.

W in Scandinavia and Denmark, with a gale at Christiansund.

WEATHER

Foggy in many parts of the United Kingdom, as well as in Holland and North Germany, but in most other localities, but rainy at Berlin.

Scarcely any rain was measured this morning in any part of Western Europe.

SEA

Moderate to smooth generally, but rather rough at Christiansund.

PROBABLE CHANGES IN SYSTEM NOW PREVALENT

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

FORECASTS

For the 24 hours ending at NOON on 21st FEB^{ry} 1891.

DISTRICTS.

FORECASTS.

DISTRICTS.

FORECASTS.

0 SCOTLAND
NORTH

Calm or SW^{ly} airs; fair generally.

1 SCOTLAND
EAST

Calm or SW^{ly} airs; fair generally
but some fog or mist.

2 ENGLAND
N.E.

3 ENGLAND
EAST

4 MIDLAND
COUNTIES

5 ENGLAND
SOUTH

E^{ly} winds, light or moderate; cloudy,
misty, slight rain locally.

6 SCOTLAND
WEST

7 ENGLAND
N.W.

8 ENGLAND
S.W.

9 IRELAND
NORTH

10 IRELAND
SOUTH

E^{ly} or SE^{ly} winds, light, fair generally,
but some fog or mist.

Same as Nos 3 to 5.

Light breezes, chiefly E^{ly}; fair generally.

WARNINGS

NONE ISSUED.

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

YESTERDAY'S 2 P.M. REPORTS.

	BAR	THER.		WIND		WEA	SEA		BAR	THER.		WIND		WEA	SEA
		D.	W.	D.	F.					D.	W.	D.	F.		
Skudesnaes ...	30.50	42	49	SE	1	c	2		Holyhead ...	30.46	50	46	N	1	1
Snuburgh Head ...	30.38	53	47	W	1	b	3		Valencia ...	30.33	51	49	SE	5	5
Stornoway ...	30.38	53	47	SE	3	b	3		Scilly ...	30.35	48	45	E	5	4
Aberdeen ...	30.41	50	46	SE	1	b	1		Jersey ...	30.35	44	41	ENE	4	3
Shields ...	30.48	53	47	SE	1	b	2		Dungeness ...	30.46	50	46	E	5	3
Ardrossan ...	30.45	50	47	SE	2	b	2		London ...	30.52	50	46	ENE	1	1
Malin Head ...	30.36	53	47	S	3	b	2		Yarmouth ...	30.55	54	44	SE	2	2
Mullaghmore ...	30.34	53	46	SE	5	b	4		Rocheport ...	30.24	51	45	SE	3	2
Belmullet ...	30.32	54	49	S	2	b	*								

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

Weather continuing very foggy over the northwestern, northeastern, southeastern, and central parts of England, as well as on the Dutch coast and over the Baltic Provinces, hazy in the southwest and south of our Islands, dull over Russia, with snow at Moscow, cloudy over the southeastern parts of the Mediterranean, with rain at Malta. Fog decreasing in London and the neighbourhood, but continuing in most other places. Low foglike stratus driving rapidly from the eastward across the sky in London at evening.

Temperature in morning low generally except on the Atlantic coasts. Morning readings exceeding 50° on the Algerian coast and the south and east of Spain, and exceeding 40° at most of the Mediterranean stations as well as on the most western coasts of the British Isles and in the west of Norway. Very low over Southern Russia and Central Europe. Lowest -1° at Kiev, 4° at Kharkov, 7° at Nicolaieff, 9° at Odessa, 12° at Rhenish, 14° at Moscow, 17° at Novoross, and 27° at Archangel. Rising later to upwards of 50° in Ireland and at Paris, to upwards of 55° in the south of France and to 61° at Lisbon; not exceeding 37° in London all day.

Wind still SW to W over the most northern countries and the Baltic, but becoming more generally E over western Europe and the southern parts of England and Ireland than of late, NE over Central France, N, moderate to strong over the eastern half of the Mediterranean, NW, light, over north Germany. [Austrian reports not received] Freshening decidedly from the E in the English Channel and south of Ireland during day.

Barometer, highest 30.0 ins. and more, in an elongated anticyclone stretching from the west of Ireland across the North Sea, France, and Germany, to Poland, Hungary, and southern Russia; lowest 29.8 ins. and less over Lapland, the Kola Peninsula and White Sea, 30.0 ins. and less, in a depression lying to the southward of Malta, 30.3 ins. and less, over the southern parts of the Bay of Biscay. Falling slowly all over western Europe during 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 *Saturday, 21st February, 1891.*
 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.			BAROMETER.		SHADE TEMP.			WIND.				SHADE TEMP.			
Reading at 32° F. and Sea Level.	Dry.	Direc.	Force. (0 to 12.)	Weather.	Reading at 32° F. and Sea Level.	Difference from 8 a.m. yesterday.	Dry.	Wet.	Difference from 8 a.m. yesterday.	Direc.	Force. (0 to 12.)	Weather.	Sea. (0 to 6.)	Max.	Min.	Amount of Rainfall.		
SCANDINAVIA.																		
Haparanda ...	29.84	35	SW	2	bc	30.17	+ 60	28	26	- 13	NW	4	bc	*	43	?		
Hernösand ...	30.20	42	N	2	bc	30.39	+ 35	40	36	- 2	N	2	bc	*	50	34		
Stockholm ...	30.30	33	W	2	b	30.43	+ 17	23	?	- 6	N	2	b	*	45	?		
Wisby ...	30.31	33	SSW	2	b	30.39	+ 05	30	30	- 4	NW	2	f	*	36	50		
Bodö ...	30.05	37	WSW	6	o	30.35	+ 55	37	34	- 3	N	2	o	1	41	34	0.04	
Christiansund	30.32	46	SW	5	o	30.42	+ 23	40	37	- 4	ESE	2	m	4	?	39		
Skudesnaes ...	30.42	33	NW	2	f	30.42	+ 03	29	29	- 8	Z	0	f	2	37	27		
Christiania Fjord (Færd)	30.36	32	Z	0	f	30.47	+ 16	28	27	- 2	N	2	f	1	34	25		
Skagen (The Seaw)	30.34	35	Z	0	f	30.45	+ 11	33	33	- 3	SW	1	f	2	37	32		
Fanö ...	30.44	31	WSW	1	f	30.46	+ 01	30	30	- 3	Z	0	f	*	34	30		
BRITISH ISLANDS.																		
Sumburgh Head	30.28	42	Z	0	b	30.26	- 02	40	39	- 2	SSE	1	o	2	49	38		
Stornoway ...	30.23	46	W	2	bc	30.16	- 11	32	32	- 12	Z	0	f	3	50	25		
Wick ...	30.26	43	S	2	bc	30.21	- 12	39	38	+ 9	S	2	b	1	50	29		
Nairn ...	30.25	49	Z	0	b	30.19	- 12	28	27	- 6	Z	0	bm	1	49	24		
Aberdeen ...	30.33	37	SSE	2	f	30.29	- 07	37	36	+ 6	SSE	3	ogm	3	48	31		
Leith ...	30.31	35	NW	1	bc	30.31	- 06	33	33	+ 4	Z	0	f	*	46	28		
Shields ...	30.35	38	SE	1	m	30.34	- 04	29	29	- 1	SSW	2	f	3	45	27		
Spurn Head ...	30.38	33	ESE	3	om	30.38	- 06	32	32	- 2	Z	0	om	1	35	32		
York ...	30.58	35	SE	1	f	30.37	- 07	31	31	+ 4	S	1	o	*	35	25		
Loughborough	30.38	33	ESE	2	o	30.38	- 05	33	33	+ 5	ESE	1	ogm	*	33	28		
Ardrossan ...	30.27	40	Z	0	b	30.28	- 08	37	37	0	ENE	1	of	1	54	35		
Malin Head ...	30.24	45	ESE	1	bm	30.14	- 15	40	39	- 1	SE	5	om	2	49	35		
Mullaghmore ...	30.22	43	NW	1	bm	30.14	- 16	44	42	+ 7	SE	4	ogm	3	50	36		
Belmullet ...	30.20	46	E	2	b	30.11	- 18	43	42	+ 5	SSE	2	o	*	52	38		
Donaghadee ...	30.26	45	ESE	1	f	30.26	- 09	42	41	+ 11	SSE	3	o	1	50	31	0.01	
Liverpool (Bidston)	30.31	32	SE	4	bc	30.33	- 05	31	30	+ 3	SE	3	e	3	35	28		
Holyhead ...	30.27	41	SW	2	b	30.28	- 05	39	38	- 2	ESE	1	ogm	1	51	35		
Parsonstown ...	30.23	41	SE	1	bc	30.18	- 13	43	41	+ 16	Z	0	o	*	48	27		
Valencia ...	30.18	46	ESE	1	om	30.15	- 10	47	44	+ 12	SE	3	e	3	49	35		
Roche's Point...	30.20	46	SE	4	m	30.17	- 11	47	45	+ 4	SE	4	e	4	48	43		
Pembroke (St. Ann's Hd.)	30.27	39	ESE	5	m	30.27	- 05	42	41	+ 6	ESE	4	ogm	3	43	36		
Scilly ...	30.21	48	SSE	4	e	30.19	- 02	46	45	+ 2	SE	5	e	5	48	44		
Prawle Point ...	30.30	44	SSW	2	o	30.30	- 00	42	41	0	E	4	bcm	3	44	41		
Jersey (St. Aubin's)	30.34	42	SSE	3	bm	30.32	- 00	37	37	- 3	SSE	3	f	3	48	34	0.01	
Hurst Castle ...	30.34	40	E	3	o	30.36	+ 01	38	37	+ 6	E	2	om	2	43	32		
Dungeness ...	30.33	40	E	1	m	30.35	- 03	26	26	- 9	NE	1	f	1	44	24		
London ...	30.37	36	E	1	m	30.36	- 03	31	30	- 2	Z	0	f	*	39	31		
Oxford ...	30.37	31	E	1	b	30.37	- 04	29	29	- 1	E	1	f	*	41	29		
Cambridge ...	30.37	34	E	1	b	30.40	- 03	29	28	- 3	E	1	f	*	40	27		
Yarmouth ...	30.38	33	SE	3	f	30.38	- 05	33	33	0	ESE	1	f	3	34	30	0.01	
GERMANY & HOLLAND.																		
Cuxhaven ...	30.49	31	N	1	f	30.47	- 04	32	31	- 3	Z	0	f	*	35	30		
Berlin ...	30.43	34	NNE	1	o	30.49	+ 03	34	32	0	SE	2	o	*	36	32		
Wiesbaden ...	*	*	*	*	*	30.40	- 07	28	27	0	NE	1	b	*	43	27		
Munich ...	30.38	24	Z	0	b	30.39	- 06	21	?	+ 6	SE	3	b	*	32	-2		
The Helder ...	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	
FRANCE AND BELGIUM.																		
Brussels (9 a.m.)	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	
Cape Gris Nez	30.33	44	SE	2	bc	30.34	- 02	32	32	+ 3	E	3	f	2	45	28	0.04	
Paris ...	30.36	45	ESE	2	b	30.35	- 04	26	26	- 2	NW	1	f	*	55	26		
Brest ...	30.25	46	S	3	o	30.24	- 04	41	40	- 2	ESE	3	b	3	50	37		
Lorient ...	30.32	42	SSE	1	b	30.25	- 04	40	38	- 3	E	3	b	3	46	37		
Roche fort ...	30.30	50	NNW	2	b	30.24	- 08	38	36	+ 3	ESE	2	b	*	57	28		
Belfort ...	?	32	NNE	2	b	?	?	31	?	- 1	NNE	2	bc	*	46	29		
Lyons ...	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	
Nice ...	30.34	43	W	2	b	30.28	- 16	42	40	+ 2	ENE	4	o	2	57	37		
Perpignan ...	30.34	48	E	1	b	30.25	- 16	33	32	- 4	SW	1	b	*	58	31		
Biarritz ...	30.25	59	E	3	b	30.20	- 09	45	37	- 3	S	3	b	1	64	39		
PENINSULA.																		
Corunna ...	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	
Lisbon ...	30.13	56	ESE	4	o	30.11	- 10	51	49	+ 4	ENE	3	o	3	61	34		

WEATHER CHARTS

for 8 a.m. on Saturday, 21st February, 1891.

BAROMETER, WIND AND SEA.

EXPLANATION OF MAP

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

Changes since previous morning are stated in words.

WIND—Arrows show the prevalent winds. They fly with the wind and

their barbs and feathers refer to force thus—

→ forces above 10; → forces 8 to 10;

→ forces 5 to 7; → forces 1 to 4.

○ = dead calm.

SEA DISTURBANCE—Where considerable, is shown thus:

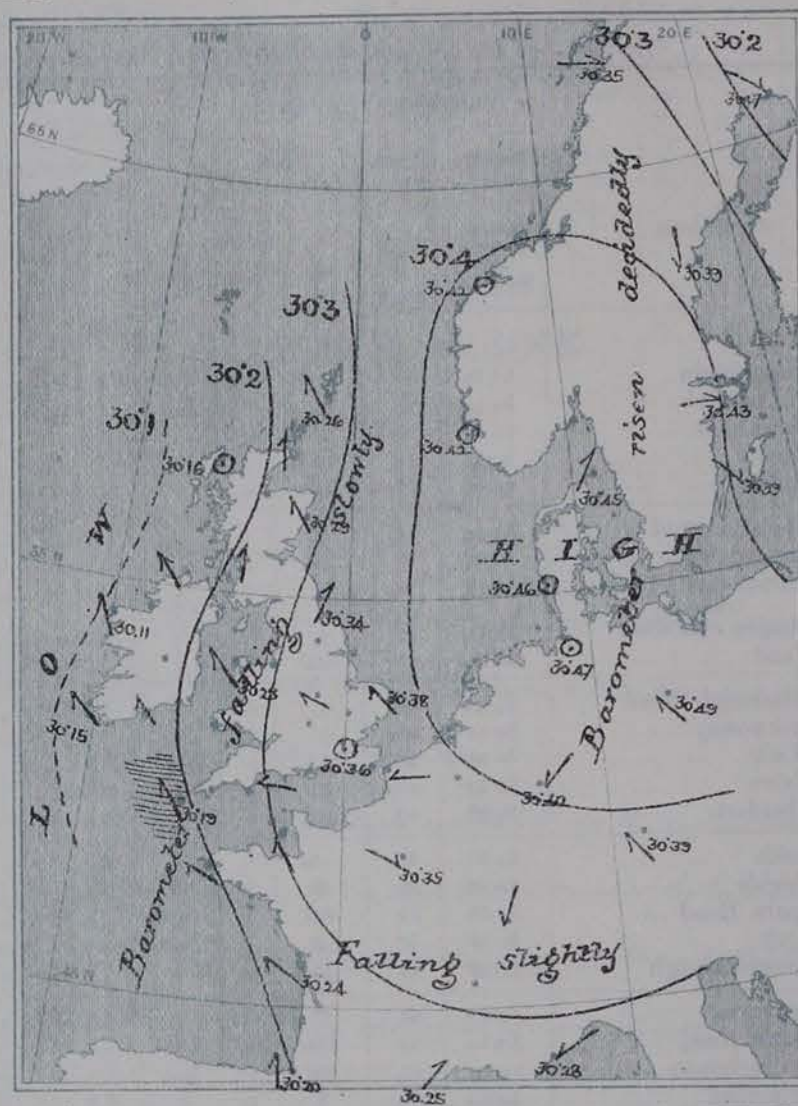
≡ = Rough. ≡ = High.

MEAN HEIGHT OF THE BAROMETER

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

During the 20 Years: 1871—1890.

STATIONS.	MEAN READINGS.
Sunbury Head	29.775
Stornoway	29.773
Wick	29.804
Nairn	29.814
Aberdeen	29.848
Leith	29.870
Shields	29.906
Soun Head	29.934
York	29.939
Loughborough	29.963
Ardrossan	29.873
Mullaghnore	29.842
Donaghadee	29.884
Holyhead	29.911
Liverpool	29.934
Parsonstown	29.906
Valencia	29.919
Roche's Point	29.916
Pembroke	29.917
Scilly	29.959
Prawle Point	29.893
Jersey	30.007
Hurst Castle	29.986
Dover	29.985
LONDON	29.989
Oxford	29.985
Cambridge	29.979
Yarmouth	29.961



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

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

WEATHER is shown by letters of the Beaufort Scale.

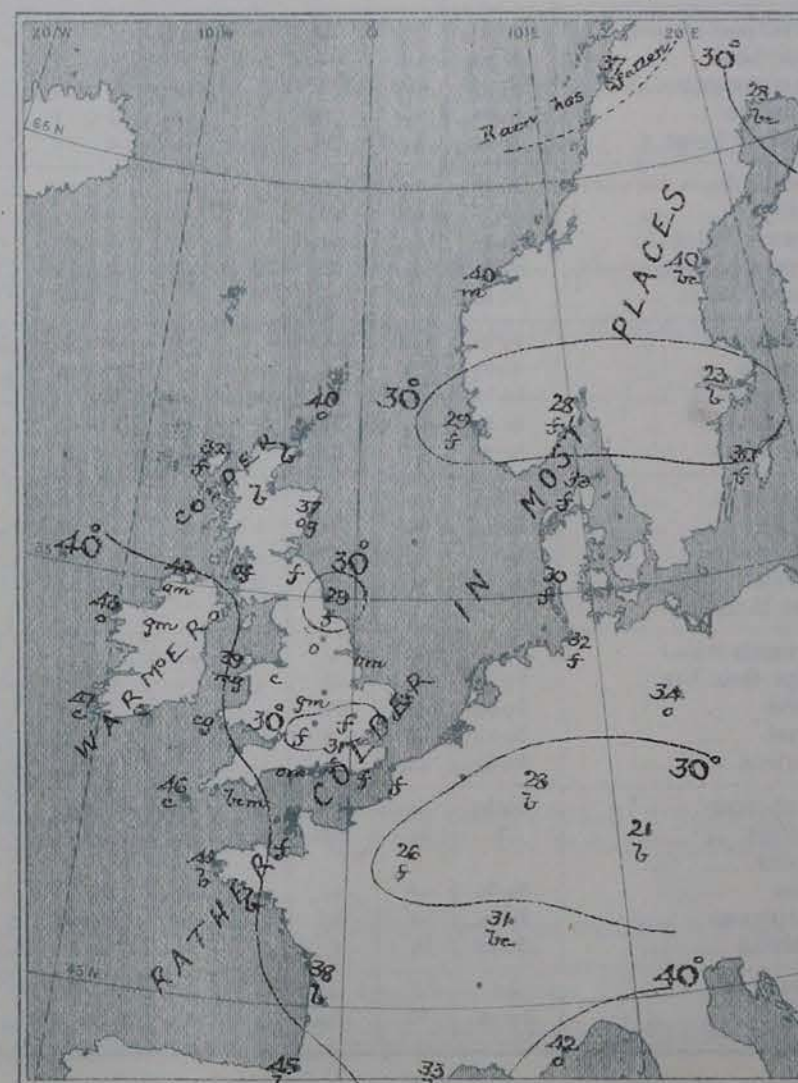
RAINFALL—A dotted line separates the districts in which rain has fallen from those where there has been none. Falls of 0.5 in. or more are quoted in figures.

MEANS OF TEMPERATURE IN SHADE, AND RAINFALL.

(For the month of February.)

STATIONS.	TEMPERATURE.				RAINFALL. (Inches.)
	Daily Min.	Daily Max.	at 8 a.m. Dry.	Wet.	
Sunbury Head	42.4	34.5	38.5	37.4	3.19
Stornoway	43.5	34.6	39.1	38.1	3.86
Wick	43.1	33.2	38.1	36.7	2.04
Nairn	43.4	34.4	37.1	35.4	1.48
Aberdeen	43.2	33.8	37.3	35.7	2.35
Leith	43.7	34.3	38.6	37.1	1.45
Shields	43.8	35.1	38.6	37.3	1.50
Soun Head	42.8	35.5	38.4	37.6	1.36
York	44.6	33.9	37.5	36.4	1.70
Loughborough	45.4	33.9	37.6	36.4	1.78
Ardrossan	44.6	36.3	39.4	38.2	3.04
Mullaghnore	46.6	38.6	42.0	40.8	2.80
Donaghadee	45.5	36.9	40.8	39.3	2.42
Holyhead	45.5	38.7	41.5	40.1	2.60
Liverpool	44.5	36.2	38.9	37.3	1.69
Parsonstown	46.9	35.6	39.4	38.1	2.20
Valencia	49.7	40.7	44.6	42.9	4.95
Roche's Point	48.4	39.6	43.1	41.6	4.43
Pembroke	45.5	39.4	42.1	40.9	2.82
Scilly	48.9	42.8	45.0	44.4	2.71
Prawle Point	46.8	33.1	41.5	40.5	2.02
Jersey	46.9	39.3	42.3	41.0	2.55
Hurst Castle	45.7	36.7	40.3	39.3	2.30
Dover	44.4	36.1	39.2	38.1	1.95
LONDON	45.8	35.1	38.6	37.4	1.73
Oxford	45.0	34.9	37.9	36.8	1.92
Cambridge	45.5	32.8	37.3	36.2	1.46
Yarmouth	42.6	34.5	38.2	37.3	1.82

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



GENERAL SITUATION AT 8 A.M.

PRESSURE

Highest, 30.4 in. and upwards in an anticyclone lying over Germany, Denmark, and all the southern parts of Scandinavia.
Lowest, 30.1 in. and less to the westward of our islands; 30.2 in. and less in Lapland.

Gradient slight. Barometer rising in Scandinavia, Denmark, and Germany, but falling elsewhere.

TEMPERATURE

Highest, 51° at Luton, 47° at Voreneir Island and Rocher Point, 46° at Seilly, 45° at Biarritz, and 44° at Mullaghmore.
Lowest, 21° at Munich, 23° at Stockholm, 26° at Dungeness and Paris, and 28° at Haparanda and Wiesbaden.

During yesterday the thermometer again rose to 50° or more on our extreme north and north-west coasts, but over the eastern and central parts of England it did not exceed 35°.

WIND

Light or moderate from the SE² in all the more westerly and northern parts of the United Kingdom and also in the west of France.
Light from the E² in the southeast of England; calm on the eastern shores of the North Sea; light or moderate from the NW² in Sweden.

WEATHER

Foggy over England, the south and west of Scotland, the south of Norway, Denmark, the Netherlands, and the north of France.
Clear in most other localities, but dull in Ireland.

No rain was reported yesterday in any part of Western Europe.

SEA

Slight or smooth generally, but rather rough at Seilly.

PROBABLE CHANGES IN SYSTEM NOW PREVALENT

Conditions are now becoming favourable for the passage of depressions along our western coasts, and less settled weather is probable in Ireland. Over the eastern parts of the Kingdom no important change is likely at present.

FORECASTS

For the 24 hours ending at NOON on 22nd FEB^{ry} 1891.

DISTRICTS.

FORECASTS.

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

SE² winds, light; fair generally
but some mist or fog

E² or SE² winds, light; foggy or
misty in most places.

DISTRICTS.

FORECASTS.



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

SE² winds, light or moderate;
fair generally

SE² winds, freshening; dull, some rain.

WARNINGS

NONE ISSUED.

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

YESTERDAY'S 2 P.M. REPORTS.

	BAR:	THER:		WIND		WEA	SEA		BAR:	THER:		WIND		WEA	SEA
		D.	W.	D.	F.					D.	W.	D.	F.		
Skudesnaes ...	30.42	36	36	E	4	f	2		Holyhead ...	30.28	50	45	SE	1	6
Sumburgh Head ...	30.30	48	44	Z	0	c	2		Valencia ...	30.21	49	44	SE	6	6m
Stornoway ...	30.25	50	46	W	3	c	3		Scilly ...	30.23	48	45	SE	6	c
Aberdeen ...	30.32	46	43	S	2	bm	1		Jersey ...	30.36	44	41	SE	3	6c
Shields ...	30.27	44	41	SE	2	bm	2		Dungeness ...	30.35	44	41	E	1	m
Ardrossan ...	30.19	51	48	Z	0	b	0		London ...	30.37	37	36	ESE	2	cm
Malin Head ...	30.25	47	44	E	1	b	2		Yarmouth ...	30.40	34	33	SE	3	f
Mullaghmore ...	30.24	48	45	ESE	4	bm	2		Rochefort ...	30.33	54	50	W	1	b
Belmullet ...	30.24	52	47	E	1	b	*								

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

Weather fine and bright over Sweden, Scotland, Ireland, Spain, France, southeastern Europe, and at nearly all stations on the shores of the Mediterranean, dull elsewhere; very foggy over the north and east of England, the eastern shores of the North Sea, the Kattegat and Sound, and in western Austria; rain at Berlin and St. Petersburg, snow at Kiev. Temporary clearance of fog in some parts of England later, but no permanent change.

Temperature continuing low for time of year except over Northern Europe. Morning readings exceeding 50° at one or two Spanish and Algerian stations; exceeding 40° on the western, southern, and northern shores of the Mediterranean, on the Portuguese coast, and also in the extreme northwest of our Islands and Norway and the north of Sweden; much lower elsewhere. Lowest (1) 2° F. at Hermannstadt and Krasnoff, 8° at Odessa, 14° at Riga; 15° at Munich and Khar'kov; below 30° over Russia and Eastern Germany as a whole, (2) 17° at Munster, 18° at Wiesbaden and Paris; (3) 27° at York, 28° at Liverpool and Loughborough, 30° at Wick, Shields, and Oxford. Exceeding 50° in Ireland and west of Scotland, as well as over central and southern France later, continuing low over Great Britain as a whole.

Wind strong to a gale from the Wnd over extreme parts of northern Europe, light Wnd over the Baltic, strong from the Nnd over Italy and the eastern part of the Mediterranean, light End over the Bay of Biscay, Channel, and southern parts of our Islands, calm in the northeast. Inclined to freshen a little from SE. in the west of our Islands later, and light SEnd breezes setting in on our north and northeast coasts.

Barometer highest 30.6 in: and more over Hungary, and exceeding 30.3 in: over all but the northern parts of Europe and over the Atlantic. Gradients moderate over the northern countries, slight and variable elsewhere. Falling slowly, throughout our Islands 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 Sunday 22nd February 1891.
 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.		Direc.	Force, (0 to 12.)	Reading at 32° F. and Sea Level.	Difference from 8 a.m. yesterday.	Dry.	Wet.	Difference from 8 a.m. yesterday.			Direc.	Force, (0 to 12.)		Max.	Min.
SCANDINAVIA.	Haparanda ...	30.45	17	Z	0	b	30.32	+ .15	13	12	- .15	SE	2	bc	*	36	?	-	
	Hernösand ...	30.52	27	Z	0	b	30.43	+ .04	24	24	- .16	Z	0	b	*	48	?	-	
	Stockholm ...	30.60	32	Z	0	b	30.66	+ .23	28	27	+ .5	Z	0	b	*	48	23	-	
	Wisby ...	30.50	31	ESE	2	f	30.65	+ .26	30	29	0	Z	0	b	*	34	27	-	
	Bodö ...	30.43	33	E	1	b	30.24	- .11	37	34	0	E	2	b	1	37	32	-	
	Christiansund	30.39	39	Z	0	b	30.36	- .06	39	37	- .1	Z	0	f	4	45	36	-	
	Skudesnaes ...	30.49	37	SSE	6	o	30.49	+ .07	36	35	+ .7	SSE	8	c	5	37	28	-	
	Christiania Fjord (Færder)	30.55	29	Z	0	f	30.60	+ .13	31	31	+ .3	SSE	2	m	1	?	28	-	
	Skagen (The Seaw)	30.56	32	SE	1	m	30.61	+ .16	31	30	- .2	S	1	o	1	34	30	-	
	Fanö ...	30.54	29	SE	4	o	30.59	+ .13	28	28	- .2	SSE	4	m	*	30	28	-	
BRITISH ISLANDS.	Sumburgh Head	30.23	40	ESE	2	o	30.18	- .08	42	41	+ .2	S	2	o	4	42	40	-	
	Stornoway ...	30.13	44	SW	5	o	30.04	- .12	44	43	+ .12	SW	2	o	2	46	30	-	
	Wick ...	30.19	41	S	3	b	30.16	- .05	42	41	+ .3	S	4	b	2	47	39	-	
	Nairn ...	30.18	36	Z	0	b	30.14	- .05	41	38	+ .13	E	1	c	1	48	26	-	
	Aberdeen ...	30.28	37	SSE	3	o	30.26	- .03	39	38	+ .2	S	2	om	4	39	37	-	
	Leith ...	30.25	30	Z	0	o	30.22	- .09	38	38	+ .5	NNE	1	rm	*	43	30	-	
	Shields ...	30.32	35	S	2	m	30.32	- .02	35	34	+ .6	S	2	om	2	36	29	-	
	Spurn Head ...	30.35	35	ESE	4	f	30.39	+ .01	33	32	+ .1	SSE	4	f	3	35	31	-	
	York ...	30.34	35	SSE	1	o	30.38	+ .01	31	31	0	SSE	1	f	*	36	29	-	
	Loughborough	30.36	33	Z	0	o	30.39	+ .01	29	29	- .4	E	2	ogm	*	36	29	-	
GERMANY & HOLLAND.	Ardrossan ...	30.24	41	ENE	1	bc	30.18	- .10	42	41	+ .5	E	2	rm	1	45	36	0.08	
	Malin Head ...	30.08	43	SE	5	og	29.93	- .21	44	43	+ .4	SSE	6	ofid	2	44	40	0.01	
	Mullaghmore ...	30.08	47	ESE	4	ogm	29.94	- .20	52	50	+ .8	SSE	7	o	5	53	42	0.02	
	Belmullet ...	30.01	47	SE	3	o	29.89	- .24	50	50	+ .7	SSE	2	o	*	50	42	0.03	
	Donaghadee ...	30.22	44	SW	4	bc	30.16	- .10	46	45	+ .4	SE	4	o	2	46	41	0.03	
	Liverpool (Bidston)	30.27	35	SE	4	c	30.27	- .06	36	35	+ .5	SE	5	c	4	44	31	-	
	Holyhead ...	30.22	42	Z	0	bcw	30.20	- .08	48	43	+ .9	S	2	omg	2	50	39	-	
	Parsonstown ...	30.09	45	SE	2	o	30.03	- .15	49	48	+ .6	SE	2	o	*	51	42	0.04	
	Valencia ...	29.94	49	SSE	5	om	29.93	- .22	52	51	+ .5	SSE	7	om	6	52	45	0.08	
	Roche's Point...	30.05	48	SE	5	m	29.05	- .12	49	48	+ .2	SSE	6	o	5	49	45	0.36	
FRANCE AND BELGIUM.	Pembroke (St. Ann's Hd.)	30.16	42	E	5	m	30.21	- .06	41	41	- .1	E	4	om	3	44	38	-	
	Scilly ...	30.04	48	ESE	5	o	30.13	- .06	48	46	+ .2	SE	5	b	4	48	44	-	
	Prawle Point ...	30.25	41	E	4	o	30.29	- .01	45	45	+ .3	ENE	2	cm	1	45	39	-	
	Jersey (St. Aubin's)	30.24	47	E	3	bcw	30.32	00	44	40	+ .7	ENE	2	bmw	2	54	35	-	
	Hurst Castle ...	30.30	39	E	4	f	30.35	- .01	37	37	- .1	E	4	f	1	41	34	-	
	Dungeness ...	30.31	41	ENE	3	f	30.39	+ .04	35	35	+ .9	E	2	f	0	43	25	-	
	London ...	30.32	35	E	1	m	30.40	+ .04	31	31	0	SE	1	ofw	*	37	30	-	
	Oxford ...	30.34	34	E	1	f	30.39	+ .02	28	28	- .1	E	1	f	*	34	28	-	
	Cambridge ...	30.37	33	Z	0	f	30.43	+ .03	31	31	+ .2	Z	0	o	*	37	27	-	
	Yarmouth ...	30.37	33	SE	3	f	30.40	+ .02	33	33	0	SSE	3	f	3	35	30	-	
GERMANY & HOLLAND.	Cuxhaven ...	30.49	32	SE	2	f	30.60	+ .13	32	31	0	SSE	3	f	*	39	30	-	
	Berlin ...	30.56	32	SE	2	o	30.63	+ .14	30	29	- .4	SE	2	o	*	36	30	-	
	Wiesbaden ...	*	*	*	*	*	30.50	+ .10	29	28	+ .1	NE	1	m	*	41	28	-	
	Munich ...	30.38	26	Z	0	b	30.49	+ .10	17	17	- .4	Z	0	b	*	34	2	-	
	The Helder ...	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	
	Brussels (St. Paul)	*	*	*	*	*	30.44	*	35	32	*	ESE	1	b	*	46	27	-	
	Cape Gris Nez	30.31	38	ENE	2	b	30.37	+ .03	33	32	+ .1	SE	2	bc	1	41	28	-	
	Paris ...	30.30	46	NNE	2	b	30.39	+ .04	28	27	+ .2	NE	1	b	*	57	25	-	
	Brest ...	30.16	57	SE	3	o	30.22	- .02	48	45	+ .7	E	3	o	3	55	37	-	
	Lorient ...	30.18	50	ESE	2	b	30.25	- .00	41	39	+ .1	ESE	3	c	4	55	39	-	
FRANCE AND BELGIUM.	Rochefort ...	30.18	55	SE	3	b	30.28	+ .04	38	37	0	ESE	3	b	*	64	30	-	
	Belfort ...	?	32	NNE	1	b	?	?	26	?	- .5	NNE	1	b	*	47	23	-	
	Lyons ...	30.32	41	SSE	1	b	30.44	*	32	32	*	S	1	b	*	45	31	-	
	Nice ...	30.32	46	SW	4	b	30.43	+ .15	39	35	- .3	E	4	b	1	52	39	-	
	Perpignan ...	30.31	45	NE	2	b	30.41	+ .16	32	32	- .1	W	2	b	*	55	31	-	
	Biarritz ...	30.13	62	E	2	b	30.20	00	54	44	+ .9	SSE	2	b	1	68	45	-	
	Corunna ...	*	*	*	*	*	30.11	+ .10	59	50	+ .19	S	2	b	3	68	50	-	
	Lisbon ...	30.13	59	S	2	bc	30.16	+ .05	57	47	0	NE	4	o	5	64	30	-	
	Porto ...	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	
	Madrid ...	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	

WEATHER CHARTS

for 8 a.m. on 22nd February, 1891.

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—

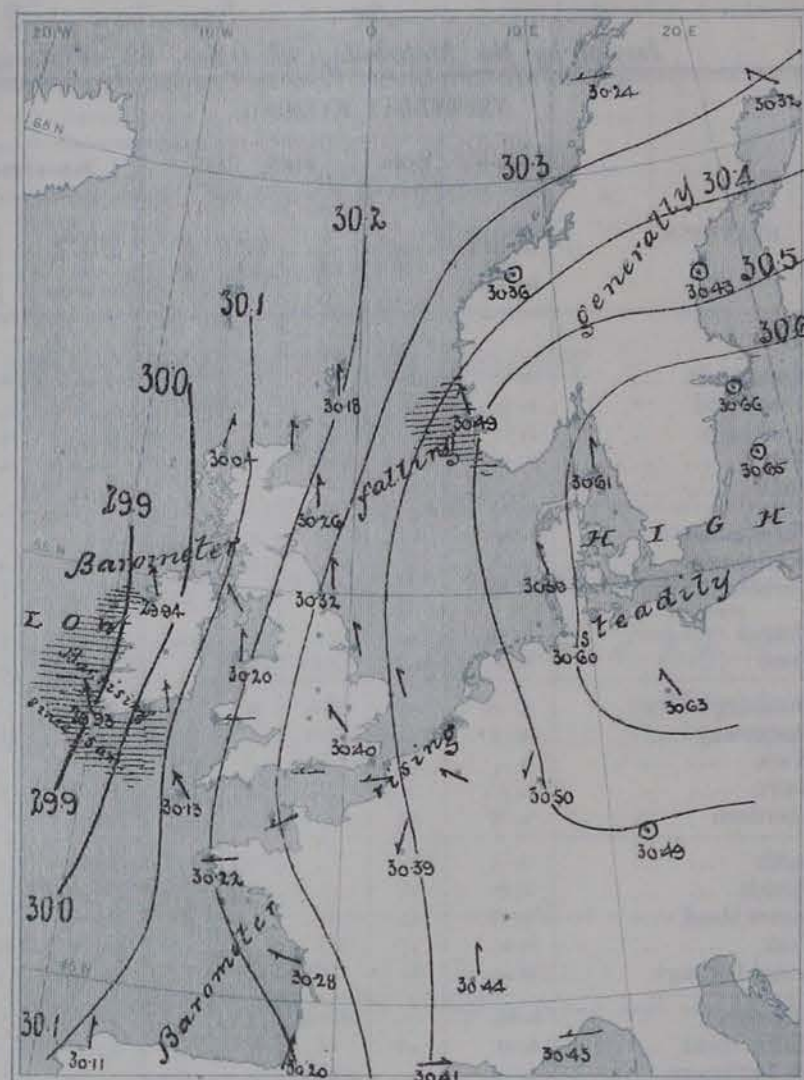
— Rough. — High.

MEAN HEIGHT OF THE BAROMETER

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

During the 20 Years: 1871—1890.

STATIONS.	MEAN READINGS.
Sumburgh Head	29.775
Stornoway	29.773
Wick	29.801
Nairn	29.811
Aberdeen	29.848
Leith	29.870
Shields	29.906
Spurn Head	29.934
York	29.939
Loughborough	29.903
Ardrossan	29.873
Mullaghmore	29.842
Donaghadee	29.884
Holyhead	29.911
Liverpool	29.934
Parsonstown	29.946
Valencia	29.910
Roche's Point	29.914
Pembroke	29.947
Silly	29.959
Prawle Point	29.993
Jersey	30.007
Hurst Castle	29.985
Dover	29.985
LONDON	29.989
Oxford	29.985
Cambridge	29.979
Yarmouth	29.961



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

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

WEATHER is shown by Letters of the Beaufort Scale.

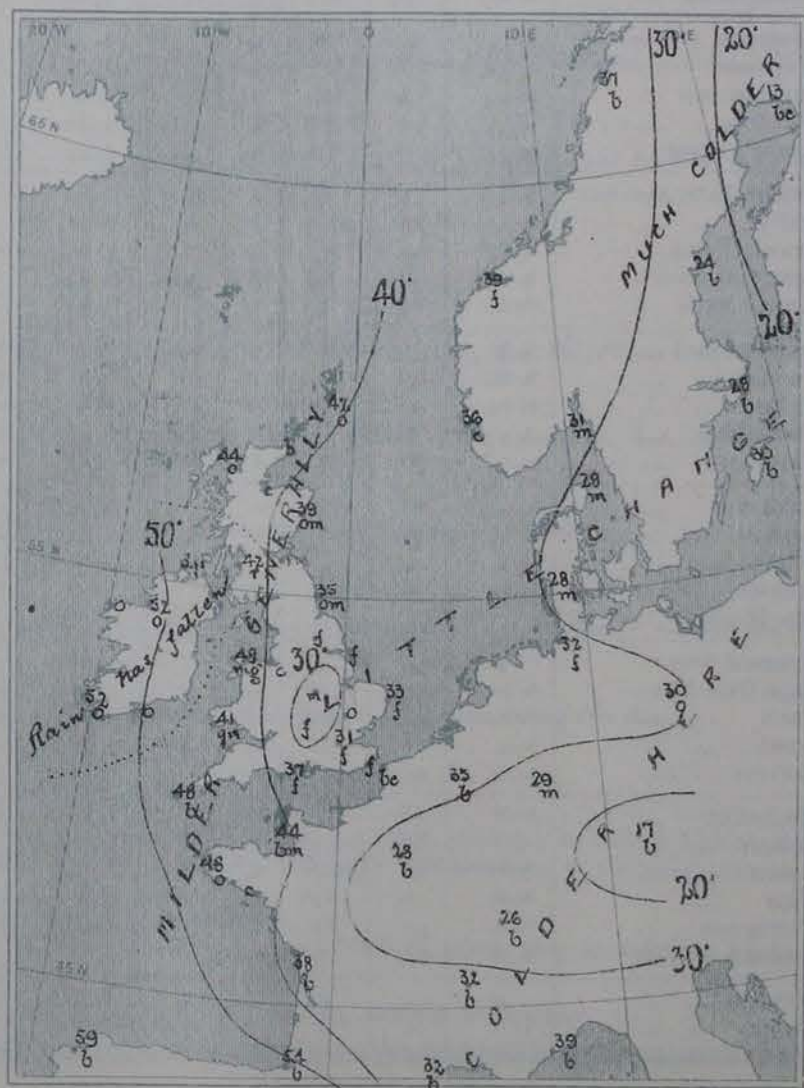
RAINFALL—A dotted line separates the districts in which rain has fallen from those where there has been none. Falls of 0.5 in. or more are quoted in figures.

MEANS OF TEMPERATURE IN SHADE, AND RAINFALL.

(For the month of February.)

STATIONS.	TEMPERATURE.				RAINFALL. (Inches.)
	Daily Max.	Daily Min.	at 8 a.m.		
			Dry.	Wet.	
Sumburgh Head.....	42.4	34.5	38.5	37.4	3.19
Stornoway	43.5	31.6	39.1	38.1	3.86
Wick	43.1	33.2	38.1	36.7	2.01
Nairn	43.4	31.4	37.1	35.4	1.48
Aberdeen	43.2	33.8	37.3	35.7	2.35
Leith	43.7	34.3	38.6	37.1	1.45
Shields	43.8	35.1	38.6	37.3	1.50
Spurn Head.....	42.8	35.5	38.4	37.6	1.36
York	44.6	33.9	37.5	36.4	1.70
Loughborough	45.4	33.9	37.5	36.4	1.78
Ardrossan	44.6	33.3	39.1	38.2	3.04
Mullaghmore	46.6	38.6	42.0	40.3	2.80
Donaghadee.....	45.5	36.9	40.3	39.3	2.42
Holyhead.....	45.5	38.7	41.5	40.1	2.60
Liverpool.....	44.5	36.2	38.9	37.3	1.69
Parsonstown.....	46.9	35.6	39.4	38.1	2.20
Valencia	49.7	40.7	44.6	42.9	4.95
Roche's Point	48.4	39.6	43.1	41.6	4.43
Pembroke.....	45.5	39.4	42.1	40.9	2.82
Silly	48.9	42.8	45.0	44.4	2.71
Prawle Point	46.8	38.1	41.5	40.5	2.02
Jersey	40.9	39.3	42.3	41.0	2.55
Hurst Castle	45.7	36.7	40.3	39.3	2.30
Dover	44.4	36.1	39.2	38.1	1.95
LONDON	45.8	35.1	38.6	37.4	1.73
Oxford	45.9	34.9	37.9	36.8	1.92
Cambridge	45.5	32.8	37.3	36.2	1.46
Yarmouth	42.6	34.5	38.2	37.3	1.82

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



GENERAL SITUATION AT 8 A.M.

PRESSURE

Highest, 30 in. and upwards, in an anticyclone lying over Denmark, North Germany, the Baltic and the south of Sweden.
Lowest, 29.9 in. and less, in a depression lying off the west of Ireland.

Gradients moderate in the west of our Islands, but slight elsewhere.

Barometer falling in the northern and northwestern parts of the United Kingdom, but rising elsewhere.

TEMPERATURE

Highest, 59° at Fiuma, 54° at Rimini, 52° at Mullaghmore and Valencia Island, and 51° at Lebow.

Lowest, 13° at Haparanda, 17° at Munich, 24° at Hannover, 26° at Belfast, and 28° at Stockholm, Yare, Oxford and Paris.

Frost occurred last night in many parts of Great Britain, the lowest reading being 25° at Dunsinnes.

WIND

S³ or SE³ over the greater part of western Europe; strong in force in Ireland, with a moderate gale at Mullaghmore and Valencia Island.

Light from the E² over the central and southern parts of England; calm in Sweden, variable in the east of France.

WEATHER

Dull in the west and north of our Islands, with rain in the south of Scotland and the north of Ireland.

Foggy over the greater part of England; fine at most of the Continental stations.

Rain has fallen at all the Irish stations, the largest amount being 0.4 in. at Rockabint.

SEA

Rough or rather so off the west and south of Ireland and also at Skudenare, but moderate to smooth elsewhere.

PROBABLE CHANGES IN SYSTEM NOW PREVALENT

FORECASTS

For the 24 hours ending at NOON on 23rd FEB^y 1891.

DISTRICTS.

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

FORECASTS.

NONE ISSUED

DISTRICTS.

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

WARNINGS

FORECASTS.

NONE ISSUED

The SOUTH CONE was hoisted yesterday in district 10, and the signals have been extended this morning to parts of districts 9 and 8.

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 ...	30.47	37	36	SSE	4	o	3		Holyhead ...	30.27	46	41	SSE	1	1
Sumburgh Head ...	30.25	41	40	SSE	2	o	3		Valencia ...	30.01	51	48	ESE	5	5
Stornoway ...	30.15	46	43	SW	4	c	4		Scilly ...	30.10	47	46	E	6	5
Aberdeen ...	30.27	38	36	SSE	3	bcn	3		Jersey ...	30.28	51	47	E	3	3
Shields ...	30.33	34	32	S	3	m	2		Dungeness ...	30.33	42	40	NE	2	1
Ardrossan ...	30.26	45	43	ENE	1	of	1		London ...	30.35	35	35	ESE	1	8
Malin Head ...	30.14	44	43	SE	4	o	2		Yarmouth ...	30.36	35	34	ESE	3	3
Mullaghmore ...	30.18	47	43	SE	4	om	3		Rocheport ...	30.20	60	57	SE	3	2
Belmullet ...	30.07	48	44	SSE	2	o	*								

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

Weather fine and bright over the Mediterranean, Spain, France, the Bay of Biscay, and in Sweden very foggy over the eastern half of the British Islands, the North Sea, Holland, Denmark, and some parts of the Baltic, cloudy or overcast in Ireland and in Russia, rain at Moscow and Odessa. Rain later at St. Petersburg also; fog continuing very prevalent in regions mentioned above.

Temperature continuing low over western and central Europe and the inland parts of England and falling over Scotland and Finland also; morning readings below the freezing point at nearly all inland stations, and as low as 20° at Hermannstadt, 21° at Munich, 26° at Paris and Hamburg, 28° at Wiesbaden, 25° to 33° over the inland parts of England, exceeding 40° on our west and south-west coasts and exceeding 50° in the west and south of Spain and at Tunis. Rising later to upwards of 50° on our western coasts, to upwards of 60° over Spain and at Algiers and to nearly 60° in the south of France and Algeria.

Wind moderate or fresh from NE. in the south of France, E to SE over the Bay of Biscay, SE on our own western coasts, and very light from S. in Scotland; NW over Finland, very light and variable elsewhere, calm in London, becoming very strong from NNE. over the southern half of Italy later. No important change elsewhere.

Barometer 30.5 ins. and more to 30.3 ins. in a large anticyclone covering the greater part of central, northern and western Europe; lowest about 30.0 ins. over the Atlantic off Casablanca, 30.1 ins. and less, over the north of Russia, 30.2 ins. and less over the southeastern part of the Mediterranean. Falling decidedly on our south-west coasts later, rising fast over the Baltic and Finland. Anticyclone moving north-eastwards.

EXPLANATION OF COLUMNS GIVEN ON PAGE 1.

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

* 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 3 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, 23rd February, 1891.*
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.	Direc.	Force. (0 to 12.)		Reading at 32° F. and Sea Level.	Difference from 8 a.m. yesterday.	Dry.	Wet.	Difference from 8 a.m. yesterday.	Direc.	Force. (0 to 12.)			Max.	Min.		
SCANDINAVIA.	Haparanda ...	30.08	22	Z	0	b	30.07	- .25	45	15	+ 2	Z	0	c	*	27	7	-	
	Hernösand ...	30.32	26	Z	0	b	30.28	- .15	28	27	+ 4	Z	0	b	*	28	21	-	
	Stockholm ...	30.54	31	SW	1	0	30.42	- .24	31	29	+ 3	WSW	4	c	*	43	25	-	
	Wisby ...	30.63	31	S	6	f	30.50	- .15	31	30	+ 1	W	6	c	*	34	27	-	
	Bodö ...	30.12	41	SW	6	f	30.08	- .20	40	40	+ 3	SW	2	r	0	43	34	0.04	
	Christiansund	30.30	40	WSW	2	b	30.21	- .15	41	40	+ 2	SE	2	c	4	41	37	0.39	
	Skudesnaes ...	30.49	36	SSE	8	0	30.48	- .01	38	37	+ 2	SSE	6	0	5	?	36	-	
	Christiania Fjord (Færdar)	30.58	33	SSW	2	m	30.50	- .10	34	33	+ 3	WSW	5	0	3	34	31	-	
	Skagen (The Scaw)	30.61	31	S	1	0	30.58	- .03	30	29	- 1	SW	2	0	2	32	28	-	
	Fanö ...	30.63	29	SE	4	m	30.62	+ .03	26	26	- 2	SE	4	f	*	30	26	-	
BRITISH ISLANDS.	Sumburgh Head	30.14	43	SSE	4	0	30.12	- .06	47	44	+ 5	SSW	3	0	4	47	42	-	
	Stornoway ...	30.01	50	SW	6	0	30.08	+ .04	46	46	+ 2	SW	6	r	6	52	42	0.02	
	Wick ...	30.14	45	S	4	b	30.16	+ .00	48	46	+ 6	S	4	b	3	46	39	-	
	Nairn ...	30.12	52	W	1	c	30.15	+ .01	52	46	+ 11	SW	2	b	1	53	39	-	
	Aberdeen ...	30.25	42	SSE	5	c	30.30	+ .04	44	41	+ 5	S	2	b	3	45	39	-	
	Leith ...	30.26	36	NE	1	m	30.34	+ .12	34	34	- 4	Z	0	f	*	50	32	-	
	Shields ...	30.31	41	S	2	om	30.42	+ .10	33	32	- 2	S	1	m	2	47	32	-	
	Spurn Head ...	30.44	35	SE	4	f	30.48	+ .09	32	31	- 1	SSE	3	f	3	36	30	0.01	
	York ...	30.43	34	S	1	0	30.49	+ .11	28	28	- 3	Z	0	f	*	36	28	-	
	Loughborough	30.43	37	SE	1	b	30.51	+ .12	21	21	- 8	Z	0	b	*	48	21	-	
GERMANY & HOLLAND.	Ardrossan ...	30.24	41	ESE	1	b	30.31	+ .13	43	40	+ 1	SE	1	b	1	51	41	-	
	Malin Head ...	30.06	52	S	6	om	30.16	+ .23	49	47	+ 5	SSW	6	cm	2	54	42	-	
	Mullaghmore ...	30.06	55	SSE	6	0	30.18	+ .24	52	46	0	SSE	4	om	3	56	50	-	
	Belmullet ...	29.90	52	SSE	4	0	30.14	+ .27	48	47	- 2	SE	1	og	*	53	48	0.07	
	Donaghadee ...	30.20	49	WSW	4	b	30.31	+ .15	45	43	- 1	SW	4	e	2	54	44	0.01	
	Liverpool (Bidston)	30.32	45	ESE	4	b	30.40	+ .13	36	34	0	ESE	5	b	4	49	36	-	
	Holyhead ...	30.23	54	S	3	b	30.35	+ .15	48	41	0	S	1	b	1	59	46	-	
	Parsonstown ...	30.12	49	SE	2	c	30.23	+ .20	45	44	- 4	SE	2	c	*	55	44	-	
	Valencia ...	30.04	51	SSE	5	0	30.15	+ .22	52	49	0	SE	5	om	5	53	50	0.04	
	Roche's Point...	30.12	50	SSE	5	c	30.22	+ .17	50	48	+ 1	SSE	6	c	5	51	48	-	
FRANCE AND BELGIUM.	Pembroke (St. Ann's Hd.)	30.12	50	ESE	4	c	30.38	+ .17	42	41	+ 1	ESE	4	b	4	48	41	-	
	Scilly ...	30.23	50	SE	5	b	30.30	+ .17	49	47	+ 1	ESE	4	b	4	53	46	-	
	Prawle Point ...	30.33	45	ESE	5	b	30.43	+ .14	45	44	0	ESE	3	b	2	51	40	-	
	Jersey (St. Aubin's)	30.33	51	ESE	1	b	30.43	+ .11	42	39	- 2	SE	1	b	1	54	39	-	
	Hurst Castle ...	30.39	41	E	3	b	30.47	+ .12	34	33	- 3	ESE	3	b	1	47	32	-	
	Dungeness ...	30.39	40	E	2	m	30.46	+ .07	37	36	+ 2	E	2	m	1	43	26	0.01	
	London ...	30.41	36	ESE	1	b	30.49	+ .09	29	28	- 2	Z	0	f	*	42	28	-	
	Oxford ...	30.45	32	Z	0	b	30.51	+ .12	23	23	- 5	E	1	f	*	46	23	-	
	Cambridge ...	30.46	36	Z	0	b	30.50	+ .07	26	26	- 5	SE	1	f	*	47	22	-	
	Yarmouth ...	30.49	33	SSE	3	f	30.47	+ .07	33	32	0	Z	0	b	1	34	25	-	
PENINSULA.	Cuxhaven ...	30.60	32	SSE	3	f	30.63	+ .03	30	28	- 2	SSE	2	f	*	32	27	-	
	Berlin ...	30.71	32	SE	2	0	30.69	+ .06	29	29	- 1	SE	2	f	*	34	28	-	
	Wiesbaden ...	*	*	*	*	*	30.58	+ .08	30	29	+ 1	NE	1	m	*	48	28	-	
	Munich ...	30.53	28	Z	0	b	30.60	+ .11	18	18	+ 1	SW	1	b	*	34	16	-	
	The Helder ...	30.52	37	E	1	b	30.55	+ .11	29	29	0	ESE	1	f	1	37	28	-	
	Brussels (9 a.m.)	*	*	*	*	*	30.52	+ .07	39	35	+ 4	ESE	2	b	*	51	34	-	
	Cape Gris Nez	30.32	53	SE	1	b	30.44	+ .07	34	33	+ 1	SE	1	m	0	45	32	-	
	Paris ...	30.41	40	NE	1	b	30.49	+ .10	26	26	- 2	Z	0	b	3	47	26	-	
	Brest ...	30.32	53	SE	1	b	30.34	+ .12	47	33	0	ESE	3	b	3	55	36	-	
	Lorient ...	30.32	43	ESE	1	b	30.39	+ .14	42	39	+ 1	ESE	2	b	3	50	39	-	
FRANCE AND BELGIUM.	Rochefort ...	30.29	54	ESE	3	b	30.38	+ .10	38	37	0	ESE	3	b	*	63	28	-	
	Belfort ...	30.44	46	S	1	b	30.56	+ .12	33	31	+ 1	SSW	1	b	*	55	31	-	
	Lyons ...	30.47	45	SE	2	b	30.52	+ .09	42	35	+ 3	E	4	b	1	55	39	-	
	Nice ...	30.40	49	SE	2	b	30.49	+ .08	33	33	+ 1	W	2	b	*	59	32	-	
	Perpignan ...	30.46	63	SE	3	b	30.27	+ .07	?	?	?	S	3	f	1	68	46	-	
	Biarritz ...	30.46	63	SE	3	b	30.27	+ .07	?	?	?	S	3	f	1	68	46	-	
PENINSULA.	Corunna ...	*	*	*	*	*	30.18	+ .02	50	46	- 1	ESE	4	c	4	70	50	-	
	Lisbon ...	30.14	62	ESE	4	0	30.18	+ .02	50	46	- 1	ESE	4	c	4	70	50	-	

WEATHER CHARTS

for 8 a.m. on Monday, 23rd February, 1891.

BAROMETER, WIND AND SEA.

EXPLANATION OF MAP

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

Changes since previous morning are stated in words.

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

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

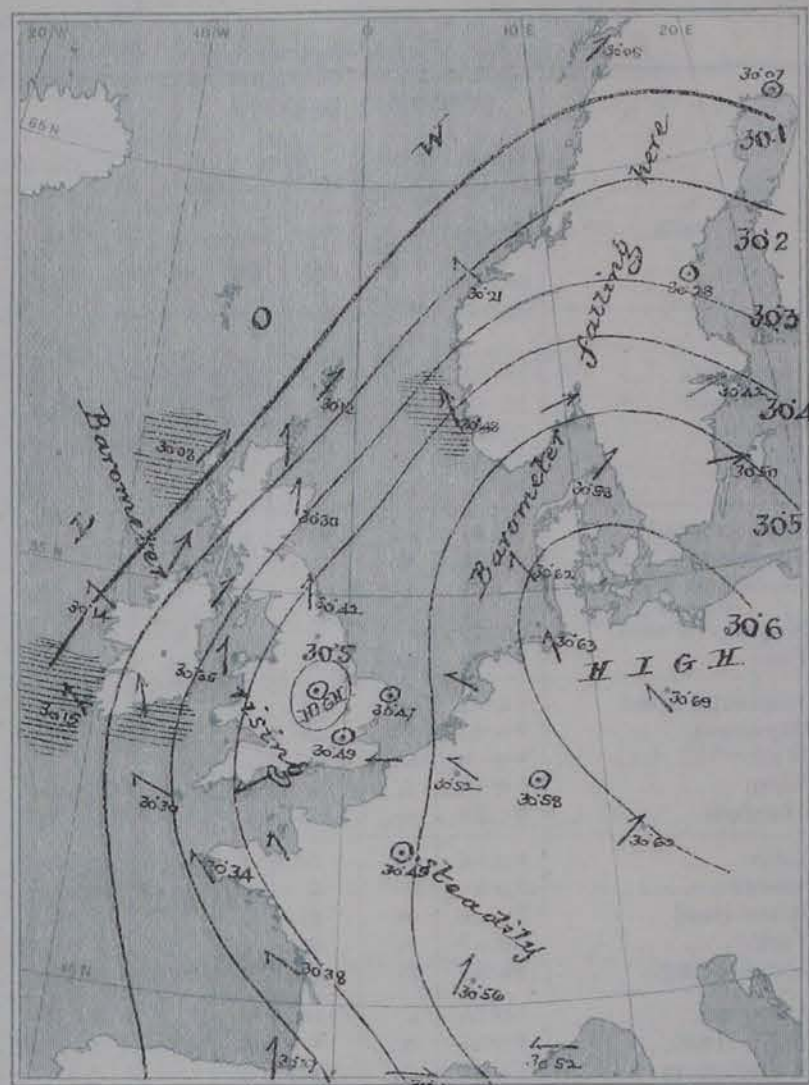
SEA DISTURBANCE—Where considerable, is shown thus:

▨—Rough. ▨—High.

MEAN HEIGHT OF THE BAROMETER

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

STATIONS.	MEAN READINGS.
Sumburgh Head	29.775
Stornoway	29.773
Wick	29.804
Nairn	29.814
Aberdeen	29.848
Leith	29.870
Shielda	29.906
Spurn Head	29.934
York	29.930
Loughborough	29.963
Ardrossan	29.873
Mullagmore	29.842
Donaghadee	29.884
Holyhead	29.911
Liverpool	29.934
Parsonstown	29.946
Valencia	29.919
Roche's Point	29.915
Pembroke	29.947
Scilly	29.959
Prawle Point	29.993
Jersey	30.007
Hurst Castle	29.986
Dover	29.985
LONDON	29.989
Oxford	29.985
Cambridge	29.979
Yarmouth	29.961



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

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

WEATHER—is shown by Letters of the Beaufort Scale.

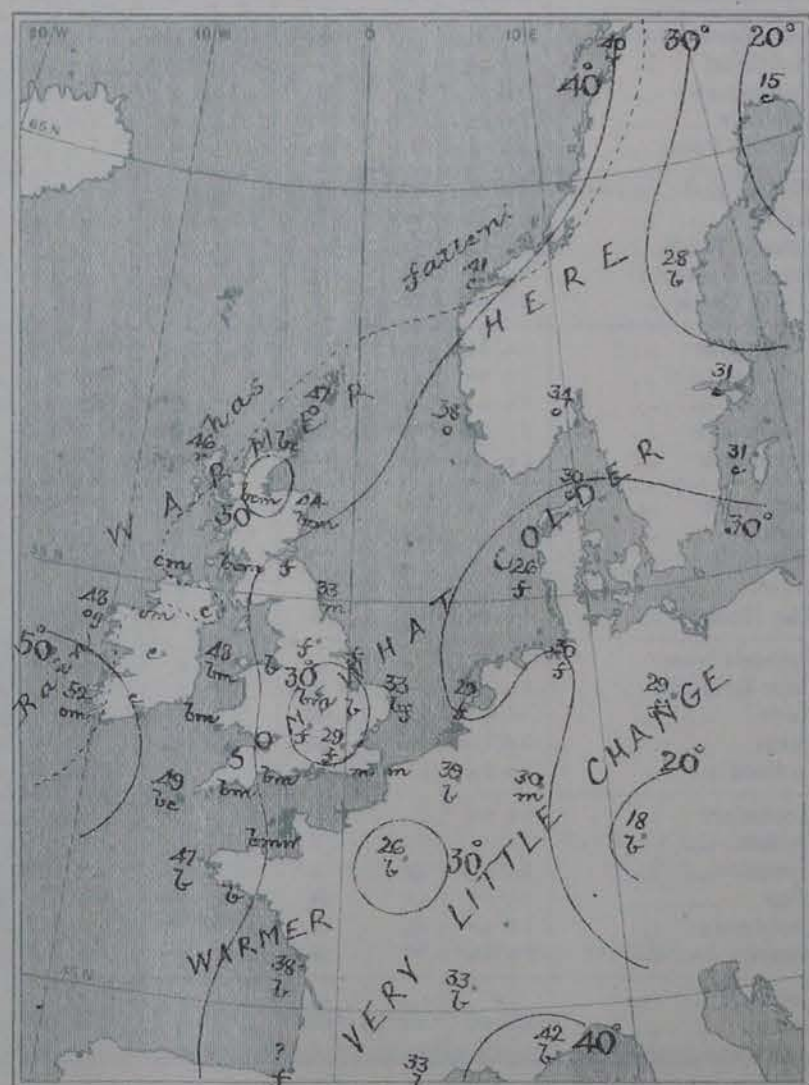
RAINFALL—A dotted line separates the districts in which rain has fallen from those where there has been none. Falls of 0.5 in. or more are quoted in figures.

MEANS OF TEMPERATURE IN SHADE, AND RAINFALL.

(For the month of February.)

STATIONS.	TEMPERATURE.				RAINFALL. (Inches.)
	Daily Max.	Daily Min.	At 8 a.m. Dry.	Wet.	
Sumburgh Head	42.4	34.5	38.5	37.4	3.19
Stornoway	43.5	34.6	39.1	38.1	3.86
Wick	43.1	33.2	38.1	36.7	2.04
Nairn	43.4	34.4	37.1	35.4	1.48
Aberdeen	43.2	33.8	37.3	35.7	2.35
Leith	43.7	34.3	38.6	37.1	1.45
Shielda	43.8	35.1	38.6	37.3	1.50
Spurn Head	42.8	35.5	38.4	37.6	1.38
York	44.0	33.9	37.5	36.4	1.70
Loughborough	45.3	33.9	37.5	36.4	1.78
Ardrossan	44.6	36.3	39.4	38.2	3.04
Mullagmore	46.8	34.6	42.0	40.3	2.80
Donaghadee	45.6	36.9	40.3	39.3	2.42
Holyhead	45.5	38.7	41.5	40.1	2.60
Liverpool	44.5	36.2	38.9	37.3	1.69
Parsonstown	46.9	35.6	39.4	38.1	2.20
Valencia	49.7	40.7	44.6	42.0	4.95
Roche's Point	48.4	39.6	43.1	41.6	4.43
Pembroke	45.5	39.4	42.1	40.2	2.82
Scilly	44.9	42.8	45.0	44.4	2.71
Prawle Point	46.8	38.1	41.5	40.5	2.02
Jersey	46.9	39.3	42.3	41.0	2.55
Hurst Castle	45.7	36.7	40.3	39.3	2.30
Dover	44.4	36.1	39.2	38.1	1.95
LONDON	45.8	35.1	38.6	37.4	1.73
Oxford	45.0	34.9	37.9	36.8	1.92
Cambridge	45.5	32.8	37.8	36.2	1.46
Yarmouth	42.6	34.5	38.2	37.3	1.83

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



GENERAL SITUATION AT 8 A.M.

PRESSURE

Highest, 30.6 in; and upwards, in an anticyclone lying over Denmark, Germany, and the southern part of the Baltic.

Lowest, 30.1 in; and less, in the Hebrides and also in the north of Scandinavia.

Pressures slight generally. Barometer rising over our Islands, France and Germany, but falling in Scandinavia and Denmark.

TEMPERATURE

Highest, 52° at Narvik, Mullaghmore and Valentia Island, 50° at Rochepoint and Dublin, and 49° at Malin Head and Tully.

Lowest, 15° at Haparanda, 18° at Munich, 21° at Loughborough, 23° at Oxford and 26° at Paris, Cambridge, and Berlin.

During yesterday the thermometer rose to 50° or more at several of our western and northern stations and to 59° at Holyhead; at Yarmouth it did not exceed 34°.

WIND

SE¹ on the west coasts of our Islands and France; strong in force at some of the Irish stations.

Light from the S² on our northeast coasts; moderate to strong from the SW² in the north of Scotland and also in Scandinavia.

Light from the E² in the south-east of England; variable in Germany and the east of France.

WEATHER

Foggy over the greater part of England, as well as over Denmark, North Germany, and the Netherlands.

Fine in most other parts of Western Europe, but dull in the extreme west and north of our Islands, as well as at some of the Scandinavian stations, with rain at Stockholm and Norway.

Slight rain fell yesterday on our extreme western coasts. A lunar halo was seen at Anderson.

SEA

Rough at Norway and rather rough off the south of Ireland as well as at Shetland, but moderate to smooth elsewhere.

PROBABLE CHANGES IN SYSTEM NOW PREVALENT

The anticyclone over Germany appears to be moving slowly southwards and is at the same time spreading out in a westerly direction over France and the southern parts of our Islands. There are at present no signs of any material change in the weather.

FORECASTS

For the 24 hours ending at NOON on 24TH FEB^R 1891.

DISTRICTS.	FORECASTS.	DISTRICTS.	FORECASTS.
0 SCOTLAND NORTH	SW ² winds, strong; dull, rain locally	6 SCOTLAND WEST	SE ² winds, light; fair generally, but some mist or fog.
1 SCOTLAND EAST	S ² winds, light or moderate, fair generally, but local fogs.	7 ENGLAND N.W.	
2 ENGLAND N.E.		8 ENGLAND S.W.	
3 ENGLAND EAST	Variable or E ² winds; cold, foggy.	9 IRELAND NORTH	SE ¹ and S ² winds, fresh, fair generally, colder.
4 MIDLAND COUNTIES		10 IRELAND SOUTH	
5 ENGLAND SOUTH			

WARNINGS

The SOUTH CONE has been lowered this morning in district 10 and part of 9 but is still flying in part of district 0.

Note.—The South Cone, point downwards (↓), means that gales, or strong winds, are probable, at first from the Southward (from S.E. round by S. to N.W.). Should it appear likely that a gale beginning from between W. and N.W. is likely to veer towards N. or N.E., the 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 ...	30.54	36	35	SS E	8	0	5	Holyhead ...	30.23	56	48	S	3	6c	2
Sumburgh Head								Valencia ...							
Stornoway ...	30.02	46	46	SW	6	0	6	Scilly ...							
Aberdeen ...								Jersey ...	30.32	52	47	E	3	6	3
Shields ...								Dungeness ...	30.39	43	41	E	1	m	0
Ardrossan ...								London ...							*
Malin Head ...	30.00	53	51	S	5	0	2	Yarmouth ...							
Mullaghmore ...								Rochefort ...	30.23	59	52	SE	4	6	2
Belmullet ...	29.92	53	51	SS E	4	0	*								

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

Weather in morning fine and bright over the Mediterranean, Spain, France, Sweden and the northern parts of the Baltic and Russia, dull over Germany, very foggy and damp over the Netherlands, the eastern half of England and Channel; hazy in Wales and west of England, overcast in Ireland. A little rain later in Norway, and the extreme west of our Islands; fog lifting in London during day, but becoming thick again towards night.

Temperature fallen rapidly over northern Europe, and very low generally for the time of year. Morning readings touching 60° in the north of Spain, and exceeding 50° at a very few stations even on the southern and western shores of the Mediterranean, and in the extreme west of Ireland; exceeding 40° on our western coasts generally, much lower elsewhere, lowest (1) 6° at St. Petersburg, 8° at Kuopio, 9° at Archangel, 16° at Moscow, 17° at Munich, 19° at Buda Pesth, 28° at Paris, 28° to 31° over the inland parts of England. Rising quickly on our western coasts later and touching 53° at Parsonstown, 56° at Mullaghmore, 59° at Holyhead, also 55° at Nice, 59° at Perpignan, 68° at Biarritz, and 70° at Lisbon.

Wind strong to a moderate gale at the Irish stations, moderate to light S^W to E^W on the English coasts, in Denmark and west of Norway; SE^W over the Bay of Biscay and northwest of Spain, E^W in the south of France, extremely variable elsewhere, nearly calm in London. S^W wind moderating later, no other change of importance.

Barometer highest 30.6 ins. and more to 30.3 ins. on a large anticyclone covering nearly the whole of Europe, and having its centre over the Baltic; lowest 29.9 ins. and less over the Atlantic, off the NW coast of Ireland, & about 30.2 ins. over the E^W parts of the Mediterranean, the SE of Russia, & the N of Lapland. Gradients slight except in the extreme W. Rising later throughout the British Isles - most in the west.

SUMMARY OF CHANGES IN THE WEATHER OVER THE BRITISH ISLANDS AND THEIR NEIGHBOURHOOD FROM THE 15TH TO 21ST FEB. 1891.

During the past week the weather over western Europe has been almost continuously anticyclonic, and although fine weather was very general at the commencement of the period thick fogs have since prevailed over England and the neighbouring parts of the Continent.

At the beginning of the week the central portion of the anticyclone extended from south Germany across the northern parts of France to the south of our Islands, and the winds over the United Kingdom were mainly from between S. and W. with fine mild weather in most districts. On the 15th and 16th maximum temperatures exceeding 50° were registered in many parts of Great Britain, the highest reading of all being 57° at Loughborough on the latter date.

After the 16th, however, the anticyclone spread more directly over the United Kingdom, and thick fogs set in over England with a decided reduction in temperature. In the southeast districts the wind now became light and variable.

On the 19th the anticyclone began to move away slowly in an easterly direction, and a gradual fall of the barometer set in over western Europe, while the wind over the southern parts of the United Kingdom shifted to the eastward. At the close of the period low pressure systems were beginning to approach our extreme southwest coasts, and the wind in the west was freshening from the SE^W with less settled weather. Over England, however, the wind remained light and the weather foggy.

Cold weather prevailed over England during the latter part of the week, slight frosts being reported each night - with daily maxima varying between 35° and 40°. In Ireland and Scotland, however, the thermometer usually rose during the day - time to 50° or more, and on the 19th a maximum of 59° was recorded at Kairn.

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 24TH FEBRUARY. 1891.

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

STATIONS.	YESTERDAY EVENING.					8 A.M. TO DAY.										PAST 24 HOURS.		
	BAROM.	TEMP.	WIND.		Weather.	BAROMETER.		SHADE TEMP.			WIND.		Weather.	Sea. (0 to 5.)	SHADE TEMP.			
	Reading at 32° F. and Sea Level.	Dry.	Dirac.	Force. (0 to 12.)		Reading at 32° F. and Sea Level.	Difference from 8 a.m. yesterday.	Dry.	Wet.	Difference from 8 a.m. yesterday.	Dirac.	Force. (0 to 12.)			Max.	Min.	Amount of Rainfall.	
SCANDINAVIA.																		
Haparanda ...	29.99	26	E	0	0	29.71	-26	39	37	+24	WPN	4	C	*	?	10	—	
Hernösand ...	30.20	37	E	0	C	30.08	-20	40	40	+17	W	2	bc	*	52	21	—	
Stockholm ...	30.38	37	W	2	C	30.25	-17	38	32	+2	W	2	C	*	37	28	—	
Wisby ...	30.40	34	WNW	4	0	30.32	-18	35	33	+4	WPN	4	C	*	36	28	—	
Bodö ...	29.80	44	SW	7	0	29.89	-19	37	36	-1	SW	7	0	4	46	37	0.32	
Christiansund	30.17	46	SW	8	P	30.25	+0.4	43	42	+2	WPN	6	0	5	54	?	0.08	
Skudesnaa ...	30.40	39	SE	6	0	30.38	-10	39	38	+1	SE	6	0	5	39	37	—	
Christiania Fjord (Færdar)	30.42	37	WPN	3	C	30.35	-15	37	36	+3	S	3	0	3	37	36	—	
Skagen (The Scaw)																		
Fanö ...	30.59	27	SE	2	F	30.53	-0.9	28	28	+2	WPN	1	F	*	28	26	—	
Sumburgh Head	30.22	47	WPN	2	P	30.23	+11	45	45	-2	E	0	0	3	50	44	0.20	
Stornoway ...	30.18	46	SW	3	P	30.13	+0.5	49	48	+8	SW	5	0	5	49	42	0.65	
Wick ...	30.24	48	E	2	0	30.25	+0.9	47	45	-1	SW	3	C	2	52	44	0.05	
Nairn ...	30.22	53	W	1	C	30.23	+0.8	47	44	-5	E	0	om	1	58	44	—	
Aberdeen ...	30.33	48	SW	2	cm	30.35	+0.1	44	41	0	SW	1	om	3	55	44	—	
Leith ...	30.38	44	SE	1	m	30.38	+0.4	40	37	+6	SW	1	m	*	51	32	—	
Shields ...	30.40	48	S	3	m	30.43	+0.1	40	38	+7	SW	2	cm	2	53	32	—	
Spurn Head ...	30.48	40	SE	2	cm	30.51	+0.3	36	35	+4	S	2	cm	2	43	31	—	
York ...	30.47	48	S	1	C	30.50	+0.1	34	33	+6	SE	1	C	*	52	27	—	
Loughborough	30.49	41	E	1	C	30.53	+0.2	25	25	+4	E	0	cm	*	56	21	—	
ARDROSSAN																		
Ardrossan ...	30.34	49	E	0	bc	30.38	+0.7	42	41	-1	E	0	bc	0	56	40	—	
Malin Head ...	30.14	54	S	5	0	30.21	+0.5	50	49	+1	S	5	0	2	55	39	—	
Mullaghmore ...	30.20	53	SE	3	cm	30.26	+0.8	56	47	+4	SW	4	C	3	60	48	—	
Belmullet ...	30.18	53	SW	5	bc	30.22	+0.8	50	47	+2	SW	4	bc	*	56	48	—	
Donaghadee ...	30.33	49	SW	4	C	30.37	+0.8	48	48	-2	SW	3	bc	1	52	42	—	
LIVERPOOL (BIDSTON)																		
Liverpool (Bidston)	30.43	48	SE	3	C	30.47	+0.7	49	47	+3	SE	3	C	3	55	36	—	
Holyhead ...	30.40	52	S	1	cm	30.44	+0.9	48	44	0	S	3	cm	2	58	47	—	
Parsonstown ...	30.28	51	SE	1	0	30.36	+1.3	45	44	0	SE	1	bc	*	56	44	—	
Valencia ...	30.22	54	SE	6	cm	30.29	+1.4	51	49	+1	SE	6	cm	6	58	49	—	
Roche's Point...	30.33	50	SE	5	bc	30.40	+1.8	48	46	-2	SE	5	cm	4	54	46	—	
PEMBROKE (ST. ANN'S HD.)																		
Pembroke (St. Ann's Hd.)	30.43	47	SE	3	C	30.48	+1.0	41	40	-1	SE	2	cm	3	48	40	—	
Scilly ...	30.38	49	SE	4	bc	30.42	+1.2	47	47	-2	E	3	mw	4	53	45	—	
Prawle Point ...	30.46	44	ENE	2	C	30.49	+0.6	41	41	-4	ENE	2	m	1	51	39	—	
Jersey (St. Aubin's)	30.46	53	E	0	cm	30.52	+0.9	42	40	0	SE	1	cm	1	55	35	—	
Hurst Castle ...	30.49	42	SW	2	cm	30.52	+0.5	33	33	-1	ENE	1	F	0	48	32	0.01	
DUNGENESS																		
Dungeness ...	30.48	40	E	1	C	30.51	+0.5	30	30	-7	ENE	1	F	0	46	22	—	
London ...	30.50	34	E	0	F	30.54	+0.5	29	29	0	E	0	F	*	40	28	0.01	
Oxford ...	30.51	36	NE	1	F	30.55	+0.4	29	29	0	E	1	F	*	53	23	—	
Cambridge ...	30.50	36	SE	1	C	30.54	+0.4	26	25	0	E	0	F	*	51	22	—	
Yarmouth ...	30.49	38	SE	2	bc	30.53	+0.6	30	30	-3	E	0	F	2	39	28	—	
GERMANY & HOLLAND.																		
Cuxhaven ...	30.60	29	ENE	1	F	30.56	-0.7	26	25	-4	S	1	m	*	31	24	—	
Berlin ...	30.63	29	E	0	F	30.60	-0.9	29	27	0	E	0	F	*	30	25	—	
Wiesbaden ...	*	*	*	*	*	30.59	+0.1	29	28	-1	SE	1	F	*	46	28	—	
Munich ...	30.61	26	E	0	S	30.59	-0.1	17	17	-1	SE	1	C	*	34	16	—	
The Helder ...	30.56	36	ENE	1	C	30.56	+0.1	30	29	+1	ENE	1	F	1	41	28	—	
FRANCE AND BELGIUM.																		
Brussels (9 a.m.)						30.56	+0.4	38	35	-1	ENE	1	C	*	56	35	—	
Cape Gris Nez	30.47	43	ENE	1	m	30.49	+0.5	33	32	-1	E	2	F	1	46	32	—	
Paris ...	30.50	46	E	2	C	30.52	+0.3	27	27	+1	ENE	1	F	*	57	26	—	
Brest ...	30.44	52	SE	1	C	30.49	+1.5	44	42	-3	E	2	C	3	59	39	—	
Lorient ...	30.42	49	ENE	1	C	30.43	+0.4	45	38	-1	ENE	2	C	4	50	41	—	
ROCHEFORT																		
Rochefort ...	30.43	54	E	3	C	30.41	+0.3	36	35	-2	E	3	C	?	61	27	—	
Belfort ...	?	35	WNE	1	C	?	?	31	?	?	WNE	1	C	*	50	25	—	
Lyons ...	30.54	48	ENE	1	C	30.56	0.0	33	32	0	E	1	C	*	57	31	—	
Nice ...	30.52	49	SW	3	C	30.48	-0.4	44	35	+2	E	5	C	1	61	41	—	
Perpignan ...	30.47	49	SE	2	C	30.48	-0.1	32	32	-1	W	1	C	*	59	31	—	
Biarritz ...	30.33	60	E	1	C	30.33	+0.6	50	42	?	S	2	C	1	64	43	—	
PENIN- SULA.																		
Corunna ...																		
Lisbon ...	30.20	63	ENE	3	C	30.21	+0.3	49	44	-1	NE	5	bc	6	68	48	—	

WEATHER CHARTS

for 8 a.m. on Tuesday, 24th February, 1891.

BAROMETER, WIND AND SEA.

EXPLANATION OF MAP

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

Changes since previous morning are stated in words.

WIND—Arrows show the prevalent winds. They fly with the wind and

their barbs and feathers refer to force thus—

— forces above 10; — forces 8 to 10;

— forces 5 to 7; — forces 1 to 4.

○ dead calm.

SEA DISTURBANCE—Where considerable, is shown thus:

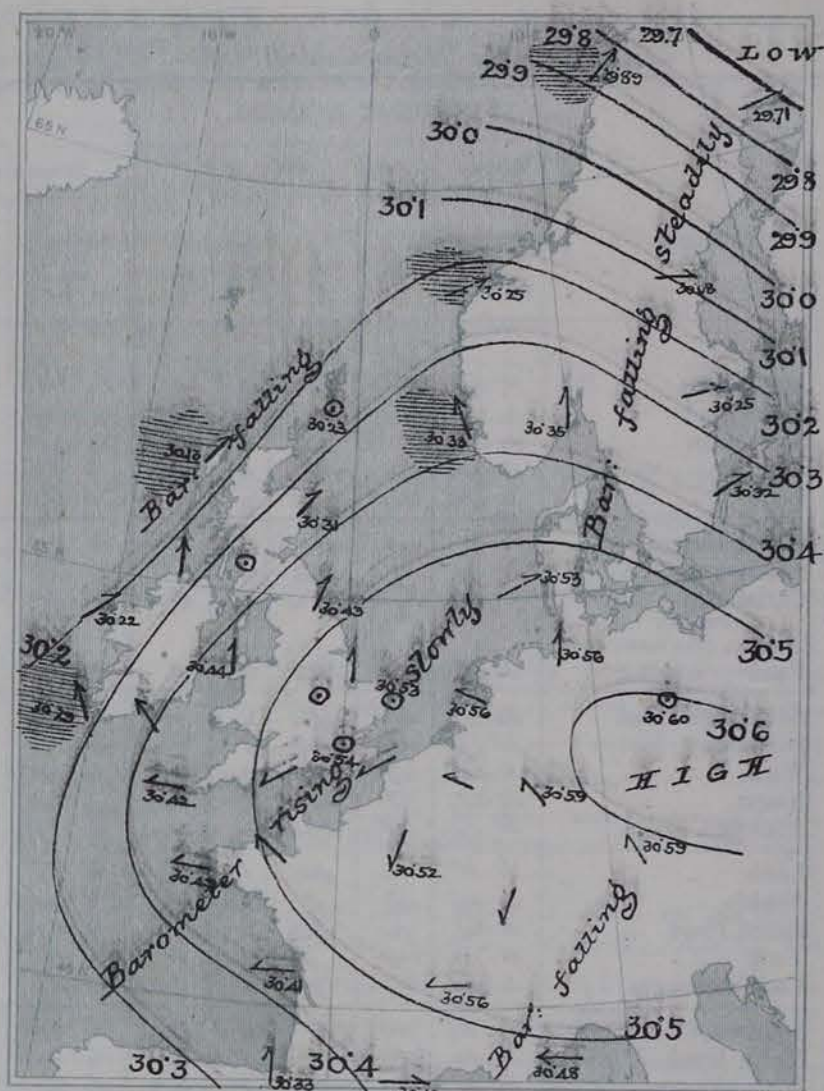
— Rough. — High.

MEAN HEIGHT OF THE BAROMETER

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

During the 20 Years: 1871—1890.

STATIONS.	MEAN READINGS.
Sumburgh Head	29.775
Stornoway	29.773
Wick	29.801
Nairn	29.811
Aberdeen	29.848
Leith	29.870
Shielda	29.900
Spurn Head	29.934
York	29.939
Loughborough	29.963
Ardrossan	29.873
Mullaghmore	29.812
Donaghadee	29.884
Holyhead	29.914
Liverpool	29.934
Parsonstown	29.946
Valencia	29.910
Roche's Point	29.918
Pembroke	29.947
Seilly	29.959
Prawle Point	29.903
Jersey	30.007
Hurst Castle	29.986
Dover	29.985
LONDON	29.989
Oxford	29.985
Cambridge	29.979
Yarmouth	29.961



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

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

WEATHER—is shown by Letters of the Beaufort Scale.

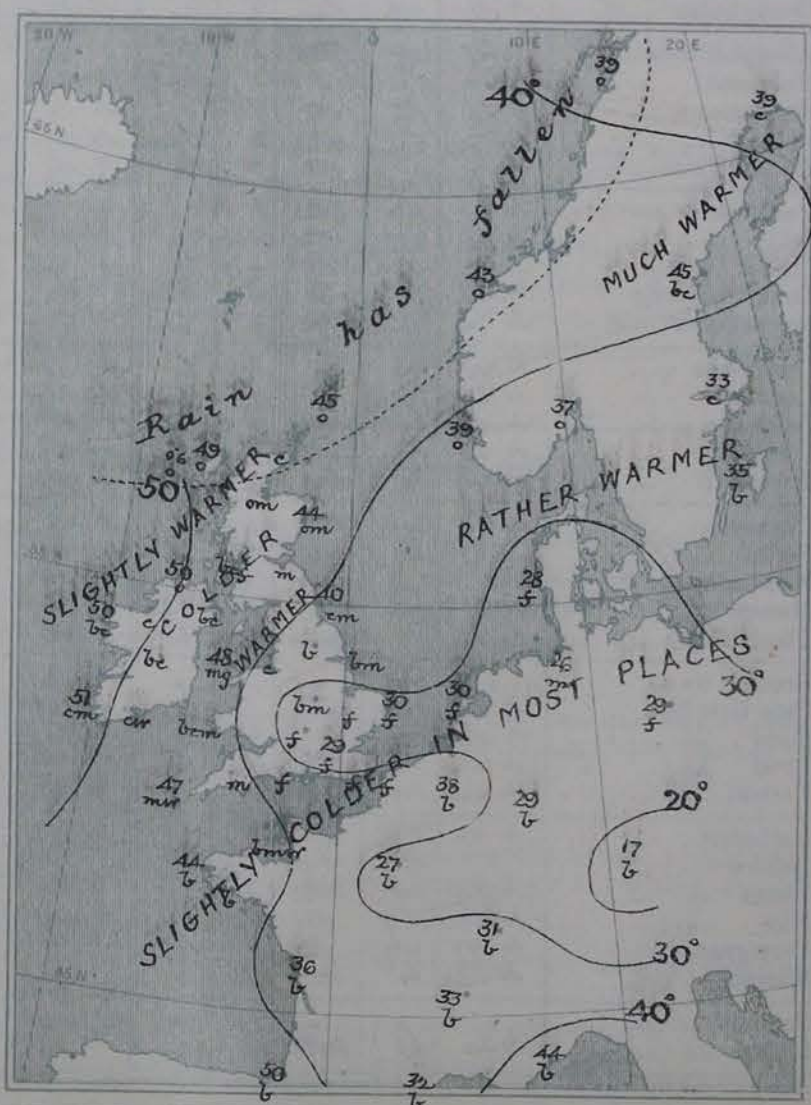
RAINFALL—A dotted line separates the districts in which rain has fallen from those where there has been none. Falls of 0.5 in. or more are quoted in figures.

MEANS OF TEMPERATURE IN SHADE, AND RAINFALL.

(For the month of February.)

STATIONS.	TEMPERATURE.				RAINFALL. (Inches.)
	Daily Max.	Daily Min.	at 8 a.m. Dry.	at 8 a.m. Wet.	
Sumburgh Head	42.4	34.5	38.5	37.4	3.19
Stornoway	43.5	31.6	39.1	38.1	3.86
Wick	43.1	33.2	38.1	36.7	2.04
Nairn	43.4	31.4	37.1	35.4	1.48
Aberdeen	43.2	33.8	37.3	35.7	2.35
Leith	43.7	34.3	38.5	37.1	1.45
Shielda	43.8	35.1	38.6	37.3	1.60
Spurn Head	42.8	35.5	38.4	37.6	1.36
York	41.0	33.9	37.5	36.4	1.70
Loughborough	45.4	33.9	37.5	36.4	1.78
Ardrossan	41.6	36.3	39.4	38.2	3.04
Mullaghmore	40.6	38.6	42.0	40.3	2.80
Donaghadee	45.5	36.9	40.3	39.3	2.42
Holyhead	45.5	38.7	41.5	40.1	2.60
Liverpool	44.5	36.2	38.9	37.3	1.69
Parsonstown	46.9	35.6	39.4	38.1	2.20
Valencia	49.7	40.7	44.6	42.9	4.95
Roche's Point	48.4	39.6	43.1	41.6	4.43
Pembroke	45.5	39.4	42.1	40.9	2.82
Seilly	48.9	42.8	45.0	44.4	2.71
Prawle Point	46.8	34.1	41.5	40.5	2.02
Jersey	46.9	39.3	42.3	41.0	2.55
Hurst Castle	45.7	36.7	40.3	39.3	2.30
Dover	44.4	36.1	39.2	38.1	1.95
LONDON	45.8	35.1	38.6	37.4	1.73
Oxford	45.0	34.9	37.9	36.8	1.92
Cambridge	45.5	32.8	37.3	36.2	1.46
Yarmouth	42.6	34.5	38.2	37.3	1.82

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



GENERAL SITUATION AT 8 A.M.

PRESSURE

Highest, 30.6 in. and more to 30.4 in. in an anticyclone lying over Germany, France, England, and the East of Ireland.
 Lowest, 29.7 in. and less, over Lapland and northern Europe; about 30.1 in. off the Hebrides, and about 30.2 in. over the south-west of Spain.
 Gradients moderate (for SW to W winds) over the most western and northern countries, slight elsewhere.
 Barometer falling over Sweden and Lapland and also at Donoway, steady over England.

TEMPERATURE

Highest, 56° at Malaga, 51° at Valencia Island, 50° at Malin Head, Bismillah, and Biarritz.
 Lowest, (1) 17° at Munich, 17° at Paris; (2) 23° at Oxford, 25° at Loughborough, 26° at Cambridge, 28° in London.
 It rose to between 55° and 60° at our western and northern stations yesterday afternoon and to 61° at Nice, but did not exceed 40° in London and 33° at Yarmouth.

WIND

Light from the E² over the Channel and Bay of Biscay, moderate to strong from SE. and S. in Ireland; light to moderate from SW. in Scotland; strong to a gale from SW in Norway, moderate from W. over Sweden.
 Over England calms prevail and in France N to E air.

WEATHER

Fine and bright on the Continent, very foggy over the inland and southern parts of England and the Channel, fine in Ireland, dull and hazy in Scotland, dull and unsettled in Norway.
 Rain has fallen in the Hebrides, Shetlands, and west of Norway.

SEA

Rough on the Norwegian coast, in the Minch, and at Valencia Island; smooth at Holyhead, dead calm at Dungeness.

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 25th Feb^{ry} 1891.

DISTRICTS.

FORECASTS.

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

SW² winds, fresh to strong; some rain, mild.
 } SW² winds, light or moderate; fine generally.
 } Calms and variable airs; cold and very foggy.

DISTRICTS.

FORECASTS.

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

Same as No 0.
 S² winds, moderate to fresh; fair.
 SE² and E² winds, light, foggy and fine alternately.
 } S² winds, increasing; fair generally.

WARNINGS

NONE ISSUED.

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

YESTERDAY'S 2 P.M. REPORTS.

	BAR.	THER.		WIND		WEA.	SEA		BAR.	THER.		WIND		WEA.	SEA
		D.	W.	D.	F.					D.	W.	D.	F.		
Skudesnaes ...	30.50	39	38	SE	6	0	5		Holyhead ...	30.39	57	47	SE	2	6
Sumburgh Head ...	30.18	48	46	SE	2	0	4		Valencia ...	30.20	55	51	SE	6	cm
Stornoway ...	30.19	47	47	SE	5	7	5		Scilly ...	30.35	52	49	SE	4	bc
Aberdeen ...	30.32	50	48	S	3	cm	4		Jersey ...	30.47	53	47	SE	2	cm
Shields ...	30.39	53	48	S	2	cm	2		Dungeness ...	30.49	44	43	E	2	bc
Ardrossan ...	30.33	51	49	SE	1	of	1		London ...	30.49	40	38	E	1	*
Mulin Head ...	30.17	53	52	SE	5	0	2		Yarmouth ...	30.48	39	38	SE	1	cm
Mullaghmore ...	30.17	59	50	SE	6	cm	4		Rocheport ...	30.39	58	51	SE	3	bc
Belmullet ...	30.14	56	52	S	1	0	*								?

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

Weather foggy over the greater part of England as well as in Holland, Denmark and Germany. Fine in most other localities, but dull in the extreme west and north of our Islands, as well as in some parts of Russia and Scandinavia, with rain at Bodø and Tromsø. Fog clearing during day in some parts of England, but coming on again at night. Heavy rain falling in the Hebrides.

Temperature highest 64° at Vienna, 54° at Barcelona and San Fernando, 53° at Sangüinaria, 52° at Nain, Mullaghmore, and Valencia Island and 51° at Bismitz, Oran and Algiers; above 45° in the western and extreme northern parts of the United Kingdom generally. Lowest 4° at Kharkov, 8° at Kiev, 11° at Nicolaïeff, and 18° at Munich, Budapest, and Hermannstadt. Below the freezing point in nearly all parts of northern, central and eastern Europe, as well as over the island parts of England. Subsequently rising to 50° or more in all but the extreme south-eastern parts of the United Kingdom, and reaching 60° at Mullaghmore.

Wind SE on the west coast of our Islands, and France, and Scandinavia, strong in force in Ireland and the west of Scotland. Calm or light E over the southeast of England, variable over Germany and the east of France. Light or moderate from the W or NW over Austria, Russia, and the Baltic; NE in Italy; E in Spain, SE in Algeria. No important change occurring during day.

Barometer highest, 30.7 ins: and upwards over Austria, eastern Germany, and the south of Russia, 30.2 ins: and upwards, in an anticyclone covering nearly the whole of Europe. Lowest, 29.8 ins: and less, in a depression lying over northern Russia, 30.1 ins: and less, in another lying to the northwest of the British Islands. Slight fall taking place during day in Scandinavia, but gradual rise in our Islands and France.

EXPLANATION OF COLUMNS GIVEN ON PAGE 1.

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

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

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

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

DAILY WEATHER REPORT.

for *Wednesday, 25th February, 1891.*
 Issued by the Meteorological Office, 63, Victoria Street, London. R. H. SCOTT, Secretary.

Published by the Hydrographic Office, 25, 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.
				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.	
		Reading at 32° F. and Sea Level.	Dry.	Dirce.	Force. (0 to 12.)	Weather.	Reading at 32° F. and Sea Level.	Difference from 8 a.m. yesterday.	Dry.	Wet.	Difference from 8 a.m. yesterday.	Dirce.	Force. (0 to 12.)	Weather.	Sea. (0 to 3.)	Max.	Min.	Amount of Rainfall.
SCANDINAVIA.	Haparanda ...	30.02	28	Z	0	b	30.17	+ .46	20	19	- 19	nnw	2	b	*	43	?	
	Hernösand ...	30.25	40	W	4	b	30.31	+ .23	29	28	- 16	Z	0	b	*	48	?	
	Stockholm ...	30.36	32	W	2	b	30.38	+ .13	26	25	- 7	nnw	2	b	*	41	28	
	Wisby ...	30.33	36	NNW	4	c	30.35	+ .03	32	32	- 3	NW	2	f	*	39	30	
	Bodö ...	29.99	37	WSW	4	0	30.05	+ .16	39	33	0	E	4	0	2	39	34	
	Christiansund	30.28	41	ESE	2	b	30.15	- .10	41	40	- 2	ESE	1	bc	4	45	41	
	Skudesnaes ...	30.38	41	ESE	2	0	30.31	- .07	41	39	+ 2	ESE	2	0	3	43	37	
	Christiania Fjord (Fæder)	30.36	35	nnw	2	f	30.39	+ .04	32	32	- 5	Z	0	f	1	37	30	
	Skagen (The Seaw)	30.36	35	W	1	b	30.36	- .06	35	35	+ 2	ESE	1	f	1	36	33	
	Fanö ...	30.46	32	WSW	1	b	30.39	- .14	33	33	+ 5	WSW	1	c	*	34	28	
BRITISH ISLANDS.	Sumburgh Head	30.17	46	ESE	1	bc	30.01	- .22	47	44	+ 2	SSE	2	c	3	50	43	0.01
	Stornoway ...	30.10	52	SW	6	bc	29.89	- .24	51	45	+ 2	SW	6	c	6	55	42	
	Wick ...	30.22	50	SW	1	0	30.02	- .23	47	45	0	S	3	b	2	52	45	
	Nairn ...	30.18	56	Z	0	0	30.00	- .23	45	43	- 2	Z	0	m	1	64	43	
	Aberdeen ...	30.29	52	SSW	2	bc	30.12	- .19	40	37	- 4	S	2	bm	2	57	40	
	Leith ...	30.32	44	SW	1	b	30.18	- .20	36	35	- 4	WSW	1	m	*	56	32	
	Shields ...	30.36	54	SW	2	m	30.25	- .18	34	33	- 6	S	2	m	2	58	31	
	Spurn Head ...	30.45	41	S	3	bm	30.32	- .19	37	36	+ 1	S	3	bm	3	48	31	
	York ...	30.42	47	SE	1	b	30.31	- .19	30	30	- 4	SE	1	f	*	54	27	
	Loughborough	30.45	42	ESE	1	b	30.34	- .19	24	24	- 1	E	1	f	*	56	23	
GERMANY & HOLLAND.	Ardrossan ...	30.32	49	Z	0	om	30.16	- .22	38	36	- 4	ESE	3	bc	0	53	36	
	Malin Head ...	30.16	56	SSE	6	om	30.01	- .20	48	42	- 2	SSE	5	cm	3	59	47	
	Mullaghmore ...	30.15	60	S	6	om	29.93	- .33	50	44	- 6	SSE	7	c	5	63	49	
	Belmullet ...	30.14	55	S	3	c	29.89	- .33	53	48	+ 3	SSW	5	0	*	61	48	0.01
	Donaghadee ...	30.32	47	SW	3	c	30.15	- .24	42	41	- 1	SW	3	bc	1	55	41	
	Liverpool (Bidston)	30.38	46	ESE	3	b	30.25	- .22	30	29	- 9	SE	4	cf	4	55	30	
	Holyhead ...	30.36	49	Z	0	bm	30.20	- .24	44	40	- 4	S	3	bm	2	58	42	
	Parsonstown ...	30.28	53	SE	2	c	30.07	- .29	44	43	- 1	SSE	2	c	*	59	42	
	Valencia ...	30.20	52	SE	6	bc	29.98	- .31	51	48	0	SE	7	cm	6	67	48	
	Roche's Point...	30.33	48	SE	4	bc	30.13	- .27	48	46	0	SE	4	c	4	53	45	
FRANCE AND BELGIUM.	Pembroke (St. Ann's Hd.)	30.38	44	SE	3	m	30.21	- .27	41	41	0	SE	4	bmw	3	49	39	
	Scilly ...	30.33	48	E	4	f	30.17	- .25	47	46	0	ESE	3	b	4	51	43	
	Prawle Point ...	30.42	40	ESE	3	m	30.26	- .23	40	40	- 1	NE	2	b	2	49	38	0.01
	Jersey (St. Aubin's)	30.40	52	ESE	2	0	30.28	- .24	37	34	- 5	NE	1	bmw	1	59	34	
	Hurst Castle ...	30.45	42	ESE	3	m	30.31	- .21	33	33	0	ESE	2	f	0	44	32	
	Dungeness ...	30.45	40	E	2	m	30.33	- .18	38	38	+ 8	Z	0	f	0	44	28	
	London ...	30.49	35	E	1	bf	30.35	- .19	29	29	0	Z	0	0	*	39	28	0.01
	Oxford ...	30.46	29	Z	0	f	30.33	- .22	27	27	+ 4	Z	0	0	*	44	23	
	Cambridge ...	30.47	41	ESE	1	b	30.35	- .19	29	29	+ 3	ESE	1	0	*	53	24	
	Yarmouth ...	30.48	39	SSE	2	bf	30.36	- .17	37	36	+ 7	Z	0	bm	2	40	29	0.02
GERMANY & HOLLAND.	Cuxhaven ...	30.56	36	Z	0	m	30.47	- .09	32	31	+ 6	NNE	1	m	*	38	26	
	Berlin ...	30.53	34	Z	0	b	30.42	- .18	33	32	+ 4	W	2	c	*	39	29	
	Wiesbaden ...	*	*	*	*	*	30.43	- .16	28	27	- 1	SE	1	b	*	48	27	
	Munich ...	30.52	25	Z	0	b	30.41	- .18	19	19	+ 2	SE	2	b	*	34	16	
	The Helder ...	30.53	36	ESE	1	b	30.41	- .15	33	32	+ 3	SE	1	b	1	43	30	
	Brussels (9 a.m.)	*	*	*	*	*	30.37	- .19	39	34	+ 1	SE	1	b	*	56	36	
	Cape Gris Nez	30.47	46	E	2	m	30.32	- .17	42	37	+ 9	SE	1	m	0	48	32	
	Paris ...	30.46	46	ESE	1	b	30.33	- .19	28	28	+ 1	NNE	1	b	*	59	27	
	Brest ...	30.40	55	E	1	b	30.25	- .24	44	41	0	Z	2	b	2	64	39	
	Lorient ...	30.36	46	SSE	1	b	30.17	- .26	39	36	- 2	E	2	b	5	55	37	
FRANCE AND BELGIUM.	Rocheport ...	30.32	55	ESE	3	b	30.22	- .19	37	36	+ 1	ESE	3	b	*	64	28	
	Belfort ...	?	34	NNE	1	b	?	?	31	?	0	NNE	1	b	*	47	30	
	Lyons ...	30.46	45	E	1	b	30.39	- .17	29	27	- 4	SW	1	b	*	53	28	
	Nice ...	30.40	48	SE	2	b	30.33	- .15	46	38	+ 2	E	3	b	0	59	34	
	Perpignan ...	30.39	48	ESE	3	b	30.31	- .17	31	31	- 1	W	1	b	*	57	31	
	Biarritz ...	30.26	57	ESE	4	b	30.15	- .18	41	35	- 9	S	3	b	2	63	37	
PENIN. ISLANDS.	Corunna ...	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Lisbon ...	30.09	59	NNE	3	bc	30.08	- .13	47	42	- 2	NE	4	bc	?	70	46	

WEATHER CHARTS

for 8 a.m. on Wednesday, 25th February, 1891.

BAROMETER, WIND AND SEA.

EXPLANATION OF MAP

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

Changes since previous morning are stated in words.

WIND—Arrows show the prevalent winds. They fly with the wind and

their barbs and feathers refer to force thus—

→ forces above 10; → forces 8 to 10;

→ forces 5 to 7; → forces 1 to 4.

☉ dead calm.

SEA DISTURBANCE—Where considerable, is shown thus:

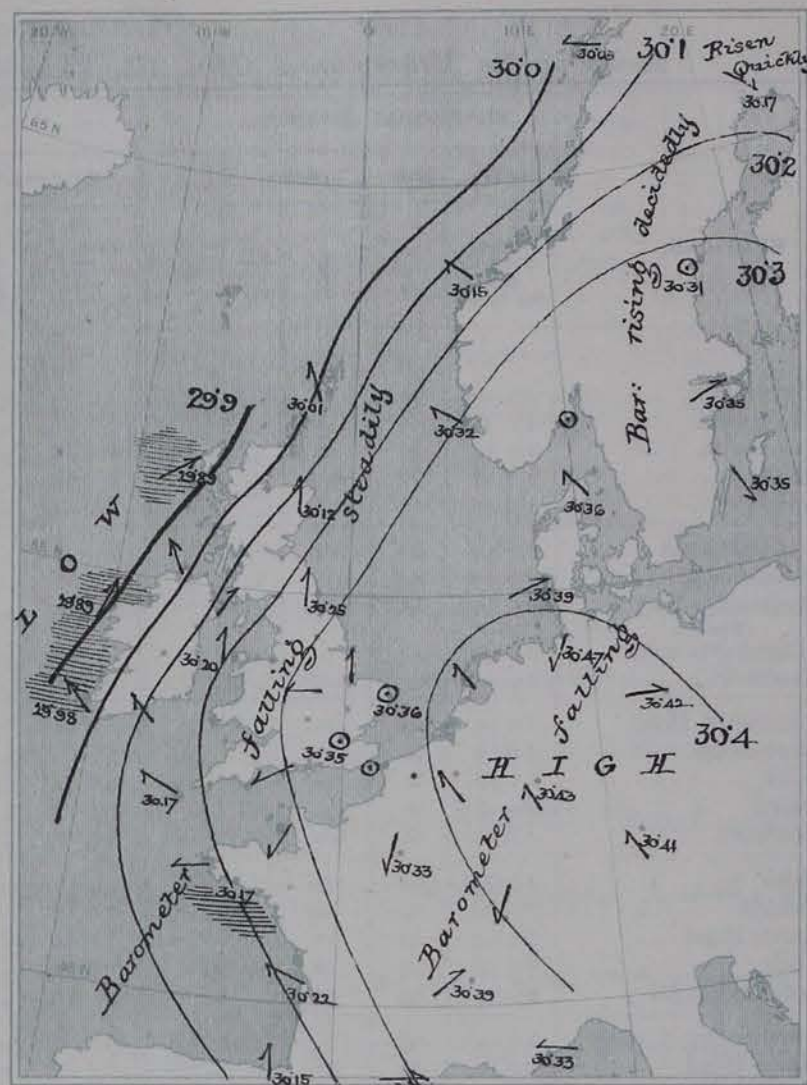
☼ Rough. ☼ High.

MEAN HEIGHT OF THE BAROMETER

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

During the 20 Years: 1871—1890.

STATIONS.	MEAN READINGS.
Sumburgh Head	29.775
Stornoway	29.773
Wick	29.804
Nairn	29.814
Aberdeen	29.848
Leith	29.870
Shielda	29.905
Spurn Head	29.934
York	29.939
Loughborough	29.963
Ardrossan	29.873
Mullaghmore	29.842
Donaghadee	29.884
Holyhead	29.911
Liverpool	29.934
Parsonstown	29.946
Valencia	29.949
Roche's Point	29.915
Pembroke	29.937
Sally	29.959
Prawle Point	29.993
Jersey	30.007
Hurst Castle	29.989
Dover	29.985
LONDON	29.989
Oxford	29.985
Cambridge	29.979
Yarmouth	29.964



GENERAL SITUATION AT 8 A.M.

PRESSURE

Highest, 30.4 in. and more to 30.3 in. over Germany, France, the North Sea, and eastern parts of England.

Lowest, 29.9 in. and less, off our extreme northwestern coasts.

Gradients slight in the east and south, moderate elsewhere.

Barometer still falling over the British Isles, North Sea and Germany, but rising decidedly over Sweden and Lapland.

TEMPERATURE

Highest, 53° at Helmslet, 51° at Stromsø and Valencien Island, 47° at Scilly and Sumburgh 26°.

(1) 19° at Munich, 28° at Wiesbaden and Paris, 29° at Lyons.

(2) 24° at Loughborough, 27° at Oxford, 29° at Cambridge and in London.

The daily maxima yesterday were as high as 64° at Namur, 63° at Mullaghmore, and 61° at Helmslet, but only 39° in London and 40° at Yarmouth.

WIND

Light E³ over the Bay of Biscay and English Channel.

Strong SE⁷ to S³ in Ireland, moderate S³ and SW⁷ over Scotland.

Calms and SE³ airs prevail over England.

WEATHER

Very fine and bright on the Continent as well as over the west of England, Wales, Scotland, and Scandinavia; cloudy in Ireland, very foggy and gloomy over the greater part of England.

SEA

Rough off the west of Ireland, moderate about the mouth of the Channel, slight to very smooth elsewhere.

PROBABLE CHANGES IN SYSTEM NOW PREVALENT

The fine weather in the west will probably spread eastwards during the day, but at present the change does not seem likely to be permanent.

FORECASTS

For the 24 hours ending at NOON on 26th FEB^{ry} 1891.

DISTRICTS.	FORECASTS.	DISTRICTS.	FORECASTS.
0 SCOTLAND NORTH	S ² winds, increasing, a gale in west; mild, some rain.	6 SCOTLAND WEST	Same as No 0.
1 SCOTLAND EAST	{ S ² and SW ² breezes, light to moderate; fine.	7 ENGLAND N.W.	S ² winds, moderate to fresh; fine.
2 ENGLAND N.E.		8 ENGLAND S.W.	{ SE ² and S ² breezes, light to moderate; fine generally.
3 ENGLAND EAST	{ Calms and SE ² airs, thick fog at first; probably clearing later.	9 IRELAND NORTH	{ SE ² winds, freshening, a gale in the far west; showery in south and west, fair in the east.
4 MIDLAND COUNTIES		10 IRELAND SOUTH	
5 ENGLAND SOUTH			
		WARNINGS	The SOUTH CONE was hoisted last evening in the western parts of districts 0 and 9, and is still up.

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		
Skudesnes	30.37	42	41	SSE	4	0	4	Holyhead	30.42	56	47	SSE	2	0	2
Sumburgh Head	30.19	50	47	SSE	1	0	3	Valencia	30.27	56	53	SE	6	cm	5
Stornoway	30.13	55	49	SW	5	0	5	Scilly	30.39	51	50	E	4	m	4
Aberdeen	30.30	54	47	S	2	bcm	2	Jersey	30.46	54	48	E	1	bcm	1
Shields	30.40	56	49	SSW	2	cm	2	Dungeness	30.49	43	41	ESE	2	m	1
Ardrossan	30.36	52	49	H	2	c	1	London	30.50	39	38	Z	0	f	2
Malin Head	30.22	57	52	SSE	5	c	2	Yarmouth	30.30	40	39	SSE	2	b	2
Mullaghmore	30.22	62	60	S	5	cm	4	Rocheport	30.39	60	50	E	3	b	2
Belmullet	30.18	59	51	S	3	c	*								

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

Weather still foggy over England, Holland, Denmark and north Germany. Fine in nearly all other parts of western Europe, and also in the southern countries, but dull over Scandinavia, Russia, and the north of our Islands, with rain at times. Fog clearing in many parts of England during day, but coming on again towards night.

Temperature highest (1) 60° at Oporto, 58° at Algiers, 54° at Bilbao and San Fernando; (2) 56° at Mullaghmore, 51° at Valencia Island, and 50° at Belmullet; above 45° in the west and extreme north of our Islands generally. Lowest (1) 9° at Kharlov, 12° at Hermannstadt, 17° at Munich and Budapest and 18° at Nicolaieff, (2) 23° at Oxford, 25° at Loughborough, and 26° at Cambridge, below the freezing point in all the more eastern and central parts of England. Rising during day to 55° or more at several of our own western and northern stations, and reaching 63° at Mullaghmore and 64° at Kharlov.

Wind light to fresh from the S^W or S^WW^W in the west and north of our Islands; S^W or W^W over Scandinavia, Denmark, the Baltic and northern Russia — strong in force in the west of Norway, light from the NW^W over Eastern Germany and the south of Russia. Light from the E^W over France, Spain, and the south of England, variable in Italy, S^W in Algeria. Subsequently backing to the SE^W in the west of Ireland and increasing to a strong breeze.

Barometer highest, 30.6 ins. and upwards, over Central Germany, 30.4 ins. and upwards in a large anticyclone lying over the whole of England and the greater part of central and Southern Europe. Lowest, 29.8 ins. and less in a large depression lying over Lapland. New depression subsequently approaching our western coasts, and barometer falling somewhat decidedly in the west of Ireland.

EXPLANATION OF COLUMNS GIVEN ON PAGE 1.

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

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

The evening observations are taken at 8 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, 26th February, 1891.*
 Issued by the Meteorological Office, 63, Victoria Street, London. *R. H. SCOTT, Secretary.*

R. H. SCOTT, Secretary.																	
YESTERDAY EVENING.																	
8 A.M. TO DAY.																	
PAST 24 HOURS.																	
STATIONS.																	
BAROMETER.																	
SHADE TEMP.																	
WIND.																	
SEA.																	
TEMP.																	
Amount of Rainfall.																	
Reading at 32° F. and Sea Level.																	
Dry.																	
Direc.																	
Force. (0 to 12.)																	
Weather.																	
Reading at 32° F. and Sea Level.																	
Difference from 8 a.m. yesterday.																	
Dry.																	
Wet.																	
Difference from 8 a.m. yesterday.																	
Direc.																	
Force. (0 to 12.)																	
Weather.																	
Sea. (0 to 12.)																	
Max.																	
Min.																	
Amount of Rainfall.																	
SCANDINAVIA.																	
Haparanda ...																	
Hernösand ...																	
Stockholm ...																	
Wisby ...																	
Bodö ...																	
Christiansund ...																	
Skudesnaes ...																	
Christiania Fjord ...																	
Skagen (The Scaw) ...																	
Fanö ...																	
Sumburgh Head ...																	
Stornoway ...																	
Wick ...																	
Nairn ...																	
Aberdeen ...																	
Leith ...																	
Shields ...																	
Spurn Head ...																	
York ...																	
Loughborough ...																	
Ardrossan ...																	
Malin Head ...																	
Mullaghmore ...																	
Belmullet ...																	
Donaghadee ...																	
Liverpool (Bidston) ...																	
Holyhead ...																	
Parsonstown ...																	
Valencia ...																	
Roche's Point ...																	
Pembroke (St. Ann's Hd.) ...																	
Scilly ...																	
Prawle Point ...																	
Jersey (St. Aubin's) ...																	
Hurst Castle ...																	
Dungeness ...																	
London ...																	
Oxford ...																	
Cambridge ...																	
Yarmouth ...																	
Cuxhaven ...																	
Berlin ...																	
Wiesbaden ...																	
Munich ...																	
The Helder ...																	
Brussels (D.A.M.) ...																	
Cape Gris Nez ...																	
Paris ...																	
Brest ...																	
Lorient ...																	
Rocheport ...																	
Belfort ...																	
Lyons ...																	
Nice ...																	
Perpignan ...																	
Biarritz ...																	
Corunna ...																	
Lisbon ...																	

WEATHER CHARTS

for 8 a.m. on Thursday, 26th February, 1891.

BAROMETER, WIND AND SEA.

EXPLANATION OF MAP

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

Changes since previous morning are stated in words.

WIND—Arrows show the prevalent winds. They fly with the wind and

their barbs and feathers refer to force thus:

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

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

☉ = dead calm.

SEA DISTURBANCE—Where considerable, is shown thus:

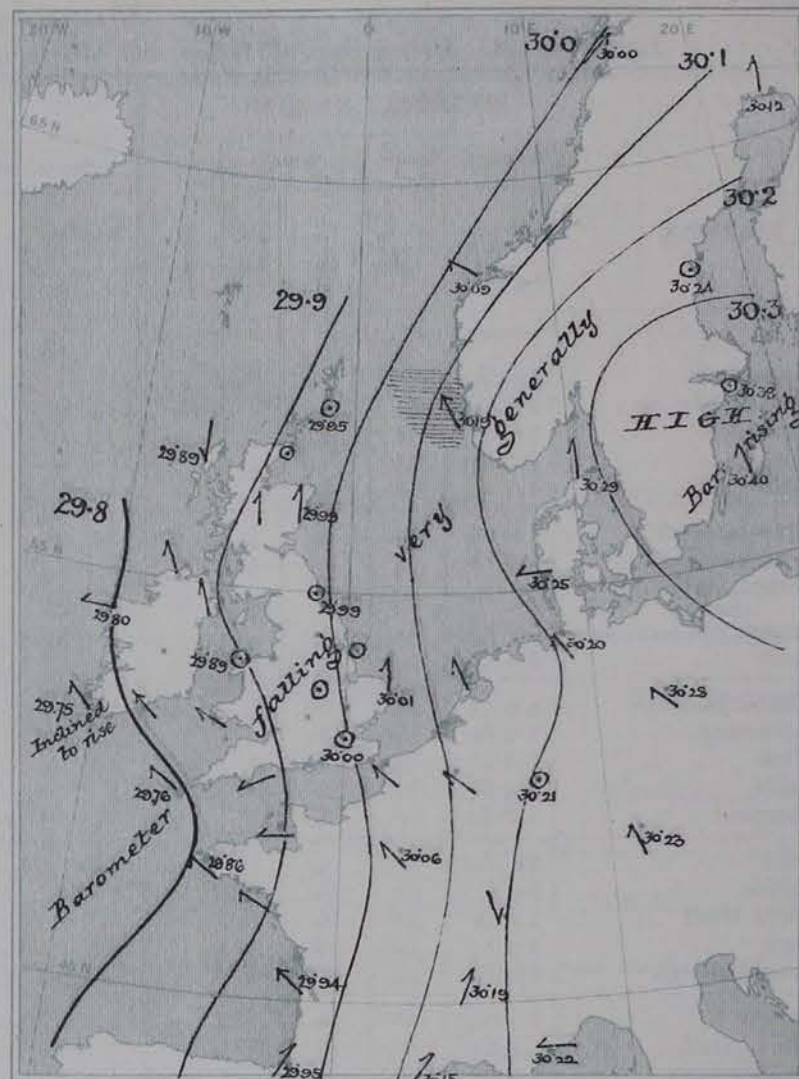
☼ = Rough; ☼☼ = High.

MEAN HEIGHT OF THE BAROMETER

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

During the 20 Years: 1871–1890.

STATIONS.	MEAN READINGS.
Sumburgh Head	29.775
Stornoway	29.773
Wick	29.804
Nairn	29.814
Aberdeen	29.848
Leith	29.870
Shields	29.906
Spurn Head	29.934
York	29.939
Loughborough	29.963
Ardrossan	29.873
Mullaghnore	29.842
Donaghadee	29.884
Holyhead	29.911
Liverpool	29.934
Parsonstown	29.916
Valencia	29.919
Roche's Point	29.913
Pembroke	29.937
Sally	29.959
Prawle Point	29.993
Jersey	30.007
Hurst Castle	29.985
Dover	29.985
LONDON	29.989
Oxford	29.985
Cambridge	29.979
Yarmouth	29.964



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

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

WEATHER—Is shown by Letters of the Beaufort Scale.

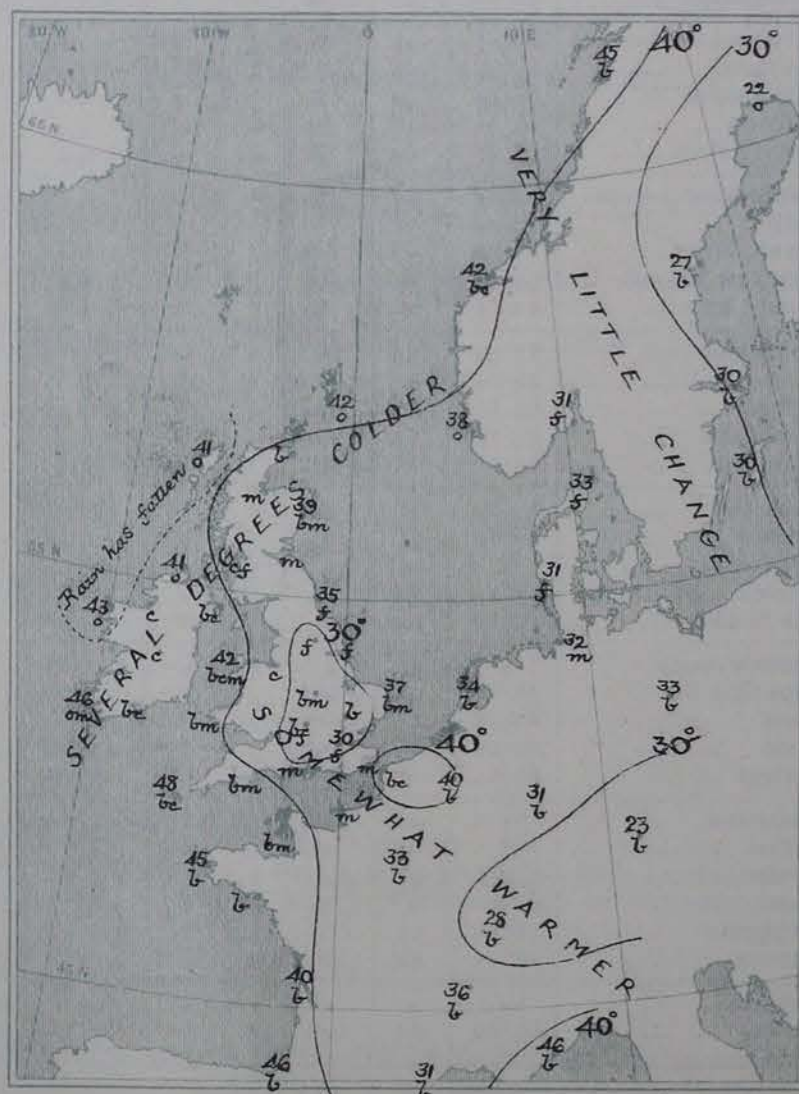
RAINFALL—A dotted line separates the districts in which rain has fallen from those where there has been none. Falls of 0.5 in. or more are quoted in figures.

MEANS OF TEMPERATURE IN SHADE, AND RAINFALL.

(For the month of February.)

STATIONS.	TEMPERATURE.				RAINFALL (Inches.)
	Daily Max.	Daily Min.	at 8 a.m. Dry.	Wet.	
Sumburgh Head	42.4	34.5	38.5	37.4	3.19
Stornoway	43.5	31.6	39.1	38.1	3.86
Wick	43.1	33.2	38.1	36.7	2.04
Nairn	43.4	31.4	37.1	35.4	1.48
Aberdeen	43.2	33.8	37.3	35.7	2.35
Leith	43.7	34.3	38.6	37.1	1.45
Shields	43.8	35.1	38.6	37.3	1.50
Spurn Head	42.8	35.5	38.4	37.6	1.36
York	41.6	33.9	37.5	36.4	1.70
Loughborough	45.4	33.9	37.5	36.4	1.78
Ardrossan	41.6	36.3	39.4	38.2	3.04
Mullaghnore	40.6	38.6	42.0	40.3	2.80
Donaghadee	45.5	36.9	40.3	39.3	2.42
Holyhead	45.5	38.7	41.5	40.1	2.60
Liverpool	44.5	36.2	38.9	37.3	1.69
Parsonstown	45.9	35.6	39.4	38.1	2.20
Valencia	49.7	40.7	44.6	42.9	4.95
Roche's Point	48.4	39.0	43.1	41.6	4.43
Pembroke	45.5	39.4	42.1	40.9	2.82
Sally	48.9	42.8	45.0	44.4	2.71
Prawle Point	46.8	34.1	41.5	40.5	2.02
Jersey	46.9	39.3	42.3	41.0	2.55
Hurst Castle	45.7	36.7	40.3	39.3	2.30
Dover	44.4	36.1	39.2	38.1	1.95
LONDON	45.8	35.1	38.5	37.4	1.73
Oxford	45.0	34.9	37.9	36.8	1.92
Cambridge	45.5	32.8	37.3	36.2	1.46
Yarmouth	42.6	34.5	38.2	37.3	1.82

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



GENERAL SITUATION AT 8 A.M.

PRESSURE

Highest, 30.4 in. to 30.2 in. over Germany, the Baltic, and the countries lying to the eastward of the North Sea.
Lowest, 29.8 in. and less, off our southwestern coasts, and apparently in the neighbourhood of the Faroe Islands also.
Gradients are slight. Barometer still falling over England, but inclined to rise again at Valence.

TEMPERATURE

Highest, 51° at Linton, 48° at Selly and Ryehead Point, 46° at Valence Island, and about 40° on our western and southwestern coasts generally.
Lowest, { (1) 21° at Haparanda, 21° at Helsingfors, 30° at Stockholm.
 (2) 23° at Munich, 28° at Belfort, 33° at Berlin and Paris.
 (3) 21° at Loughborough, 23° at York and Oxford, 30° in London.
 It rose during yesterday to between 50° and 60° over our islands, and to between 60° and 68° in the west and south of France.

WIND

Variable from between SE. and S. over our islands generally and light to moderate in force.
 In the Bay of Biscay it is moderate from SE. while over Central England calms prevail.

WEATHER

Again very foggy over the inland and northern parts of England, hazy on the coasts, but fair as a whole elsewhere.
 Nearly 0.4 in. of rain appears to have fallen at Belmullet, but none elsewhere.

SEA

Moderate in the extreme west and north, slight or smooth on our other coasts.

PROBABLE CHANGES IN SYSTEM NOW PREVALENT

Not much change is indicated at present beyond some increase of temperature, and probably, a decrease in the amount of fog.

FORECASTS

For the 24 hours ending at NOON on 27th February 1891.

DISTRICTS.

FORECASTS.

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

Very light winds, mainly S^W;
 fair generally.
 Calms and SE^W airs; fair generally
 mild in daytime, cold and foggy at night.
 SE^W breezes, light; fine and mild during day
 cold and perhaps foggy at night.

DISTRICTS.

FORECASTS.

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

Same as No 0 and 1.
 SE^W breezes, moderate or light; fair
 generally.

WARNINGS

NONE ISSUED.

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

YESTERDAY'S 2 P.M. REPORTS.

	BAR:	THER:		WIND					BAR:	THER:		WIND				
		D.	W.	D.	F.	WEA.	SEA			D.	W.	D.	F.	WEA.	SEA	
Skudesnaes ...	30.27	43	41	SSZ	6	0	5	Holyhead ...	30.11	51	46	S	4	bm	2	
Sumburgh Head ...	29.92	49	45	SSZ	3	m	3	Valencia ...	29.95	52	50	SE	7	om	6	
Stornoway ...	29.81	52	46	SW	6	c	6	Scilly ...	30.06	52	48	ESE	4	bc	4	
Aberdeen ...	30.04	46	42	SSZ	5	bm q	4	Jersey ...	30.18	55	47	E	2	b	2	
Shields ...	30.16	50	45	SW	2	m	2	Dungeness ...	30.21	48	44	2	0	m	0	
Ardrossan ...	30.06	48	44	S	3	b	2	London ...	30.23	50	45	ESE	2	b	*	
Malin Head ...	29.85	52	46	S	7	0	3	Yarmouth ...	30.24	44	40	SSZ	1	bm	1	
Mullaghnore ...	29.88	54	46	SSZ	7	0	5	Rochefort ...	30.15	60	40	ESE	3	b	*	
Belmullet ...	29.89	52	48	SSW	5	0	*									

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

Weather still foggy over the greater part of England as well as in the neighbourhood of the Skager Rack. Fine in nearly all other part of Europe, but dull in Austria and Russia. Fog clearing over England later, but weather remaining somewhat hazy during greater part of day.

Temperature highest (1) 57° at Remours, 56° at Oporto and Algiers, 55° at Bilbao and 53° at San Fernando; (2) 53° at Belmullet and 51° at Stornoway and Valencia Island, above 45° in Ireland and the north of Scotland generally. Lowest, (1) 19° at Munich, 20° at Kapaevada and Nicolaev, 21° at Uleaborg, Kharthov, and Odessa; (2) 24° at Loughborough, 27° at Oxford and 29° in London and at Cambridge; below the freezing point in nearly all parts of Russia and Central Europe, as well as over the inland parts of England. Rapid rise taking place over England later, thermometers reaching 57° at Loughborough and 53° at Cambridge.

Wind SE³ or S³ over the greater part of Western Europe; strong in force in the extreme west of our Islands, but light or moderate elsewhere. Light from the NW² over Russia and Eastern Germany; NE over Spain and Italy; S³ in Algeria. Calm or light and variable over Austria and the greater part of Germany. No important change occurring during day.

Barometer highest 30.4 ins: and upwards, over Germany, Switzerland and Austria; 30.3 ins: and upwards in a large anticyclone covering England and the greater part of the Continent. Lowest, 29.7 ins: and less, in a depression lying over Western Russia, 29.9 ins: and less, in another lying to the westward and northward of the United Kingdom. Latter system subsequently travelling away in a northeasterly direction, and barometer rising at some of our western stations.

EXPLANATION OF COLUMNS GIVEN ON PAGE 1.

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

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

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

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

DAILY WEATHER REPORT.

for *Friday, 27th February, 1891.*
 Issued by the Meteorological Office, 63, Victoria Street, London. *R. H. SCOTT, Secretary.*

PUBLISHED BY THE METEOROLOGICAL OFFICE, 55, 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.	
SCANDINAVIA.	Haparanda ...	30.12	29	S	2	bc	29.97	- .15	31	31	+ 9	SSW	4	0	*	18	-
	Hernösand ...	30.21	39	S	4	b	30.12	- .12	34	32	+ 7	SSW	4	0	*	43	25
	Stockholm ...	30.44	30	Z	0	b	30.46	+ .08	29	28	- 1	SSW	2	0	*	43	28
	Wisby ...	30.47	31	SSE	4	b	30.50	+ .10	30	29	0	S	2	0	*	39	27
	Bodö ...	30.02	38	Z	0	b	29.79	- .21	44	40	- 1	SW	4	0	*	3	36
	Christiansund	30.02	41	EAE	3	0	30.02	- .07	39	37	- 3	WSW	1	f	5	46	36
	Skudesnaes ...	30.15	38	SSE	6	b	30.18	- .01	41	37	+ 3	SSE	4	0	4	?	37
	Christiania Fjord (Færdar)	30.32	33	EAE	2	m	30.31	- .01	37	36	+ 6	SSE	3	m	2	?	31
	Skagen (The Scaw)	30.27	36	S	3	b	30.31	+ .02	36	35	+ 3	S	3	0	3	36	32
	Fanö ...	30.20	33	E	3	b	30.26	+ .05	32	31	+ 1	SE	2	0	*	43	30
BRITISH ISLANDS.	Sumburgh Head	29.89	43	SSE	3	bc	30.03	+ .08	43	42	+ 1	Z	0	0	3	47	40
	Stornoway ...	29.80	46	SE	2	bc	30.10	+ .21	38	37	- 3	SW	2	0	3	47	32
	Wick ...	29.86	43	S	2	bc	30.12	+ .18	33	32	- 4	WSW	1	0	0	53	30
	Nairn ...	29.82	40	Z	0	m	30.11	+ .20	33	32	- 2	W	1	m	1	50	29
	Aberdeen ...	29.92	39	S	2	cm	30.16	+ .17	32	30	- 7	W	2	bm	4	45	29
	Leith ...	29.89	39	NE	1	b	30.15	+ .20	28	28	- 1	WSW	1	m	*	49	26
	Shields ...	29.92	42	ESE	1	m	30.16	+ .17	34	32	- 1	SSW	1	f	2	46	31
	Spurn Head ...	29.97	40	ESE	3	bcm	30.17	+ .16	38	36	+ 6	SE	1	bm	2	42	31
	York ...	29.95	46	ESE	1	b	30.19	+ .18	27	27	+ 4	SE	1	f	*	48	22
	Loughborough	29.96	46	ESE	2	b	30.18	+ .17	28	28	+ 7	Z	0	bm	*	57	21
GERMANY & HOLLAND.	Ardrossan ...	29.88	46	Z	0	b	30.14	+ .21	36	34	- 3	Z	0	bf	0	50	33
	Malin Head ...	29.82	47	N	1	bm	30.14	+ .32	44	43	+ 3	NNE	1	bc	2	54	40
	Mullaghmore ...	29.82	46	NW	1	b	30.14	+ .31	41	41	- 1	E	3	bmw	4	54	39
	Belmullet ...	29.84	46	NW	1	bc	30.17	+ .37	43	42	0	E	1	b	*	51	42
	Donaghadee ...	29.87	42	SSW	2	b	30.15	+ .24	34	34	- 9	ESE	1	f	0	50	31
	Liverpool (Bidston)	29.91	47	SE	3	b	30.14	+ .20	39	36	+ 5	SE	3	0	3	53	34
	Holyhead ...	29.87	48	E	1	bm	30.14	+ .25	41	39	- 1	Z	0	cmw	0	55	38
	Parsonstown ...	29.82	48	SE	2	b	30.13	+ .30	39	38	- 1	Z	0	e	*	57	37
	Valencia ...	29.81	47	NW	1	bcm	30.14	+ .39	40	39	- 6	Z	0	bm	1	55	37
	Roche's Point...	29.82	48	SE	4	0	30.13	+ .33	43	42	- 5	N	2	f	4	52	42
FRANCE AND BELGIUM.	Pembroke (St. Ann's Hd.)	29.86	47	SE	4	b	30.13	+ .26	43	42	+ 3	E	2	e	2	48	40
	Scilly ...	29.79	48	S	3	0	30.08	+ .32	46	44	- 2	E	2	bc	5	51	43
	Prawle Point ...	29.90	46	EAE	1	b	30.12	+ .24	40	40	- 7	NNE	2	bw	1	50	40
	Jersey (St. Aubin's)	29.90	50	ESE	2	b	30.12	+ .20	45	40	0	ESE	1	bmw	1	56	40
	Hurst Castle ...	29.95	44	E	2	b	30.17	+ .21	40	39	+ 1	EAE	2	0	1	53	37
	Dungeness ...	29.98	44	Z	0	b	30.17	+ .16	43	41	+ 2	E	1	0	1	49	37
	London ...	29.98	43	SSE	1	bf	30.18	+ .18	34	33	+ 4	Z	0	f	*	60	30
	Oxford ...	30.00	43	SE	1	b	30.18	+ .19	29	28	+ 6	EAE	1	bm	*	57	23
	Cambridge ...	29.97	44	S	1	b	30.20	+ .19	37	35	+ 8	SSE	1	0	*	61	28
	Yarmouth ...	30.01	39	SSE	3	bm	30.17	+ .16	39	38	+ 2	Z	0	bf	2	40	34
PENINSULA.	Cuxhaven ...	30.18	37	SE	2	m	30.28	+ .08	34	33	+ 2	SSE	2	m	*	41	32
	Berlin ...	30.32	38	ESE	3	b	30.39	+ .11	30	29	- 3	ESE	3	0	*	48	28
	Wiesbaden ...	*	*	*	*	*	30.26	+ .05	31	30	0	Z	0	0	*	46	30
	Munich ...	30.20	32	NE	1	b	30.26	+ .03	24	24	+ 1	E	1	0	*	37	21
	The Helder ...	30.12	40	ESE	1	b	30.21	+ .10	33	32	- 1	S	1	0	1	45	32
	Brussels (9 a.m.)	*	*	*	*	*								*			
	Cape Gris Nez	29.97	50	S	3	b	30.14	+ .14	50	40	+ 8	Z	0	0	59	41	
	Paris ...	30.05	50	SE	2	b	30.19	+ .13	32	31	- 1	NE	1	0	*	62	31
	Brest ...	29.89	49	S	3	0	30.06	+ .20	42	41	- 3	SE	3	0	5	52	39
	Lorient ...	29.89	46	SE	3	0	30.06	+ .22	41	38	0	E	3	0	5	52	39
FRANCE AND BELGIUM.	Rochefort ...	29.93	55	SE	4	b	30.03	+ .09	40	37	0	SE	4	0	*	64	30
	Belfort ...	?	36	NW	1	b	?	?	28	?	0	WNW	1	0	*	54	26
	Lyons ...	30.11	50	ESE	1	b	30.24	+ .05	36	33	0	E	1	0	*	61	35
	Nice ...	30.19	48	E	5	r	30.23	+ .01	41	36	- 5	E	3	0	1	57	39
	Perpignan ...	30.10	49	SE	2	e	30.15	0.00	45	44	+ 14	SE	2	0	*	59	31
	Biarritz ...	29.88	57	SW	4	e	29.99	+ .04	47	42	+ 1	S	3	0	3	70	45
PENINSULA.	Corunna ...	*	*	*	*	*											
	Lisbon ...	29.82	50	NW	4	0	29.81	- .07	49	48	- 2	NNE	3	0	3	57	48

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

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

WEATHER CHARTS

for 8 a.m. on Friday, 27th February, 1891.

BAROMETER, WIND AND SEA.

EXPLANATION OF MAP

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

Changes since previous morning are stated in words.

WIND—Arrows show the prevalent winds. They fly with the wind and

their barbs and feathers refer to force thus—

— forces above 10; — forces 8 to 10;

— forces 5 to 7; — forces 1 to 4.

○ dead calm.

SEA DISTURBANCE—Where considerable, is shown thus—

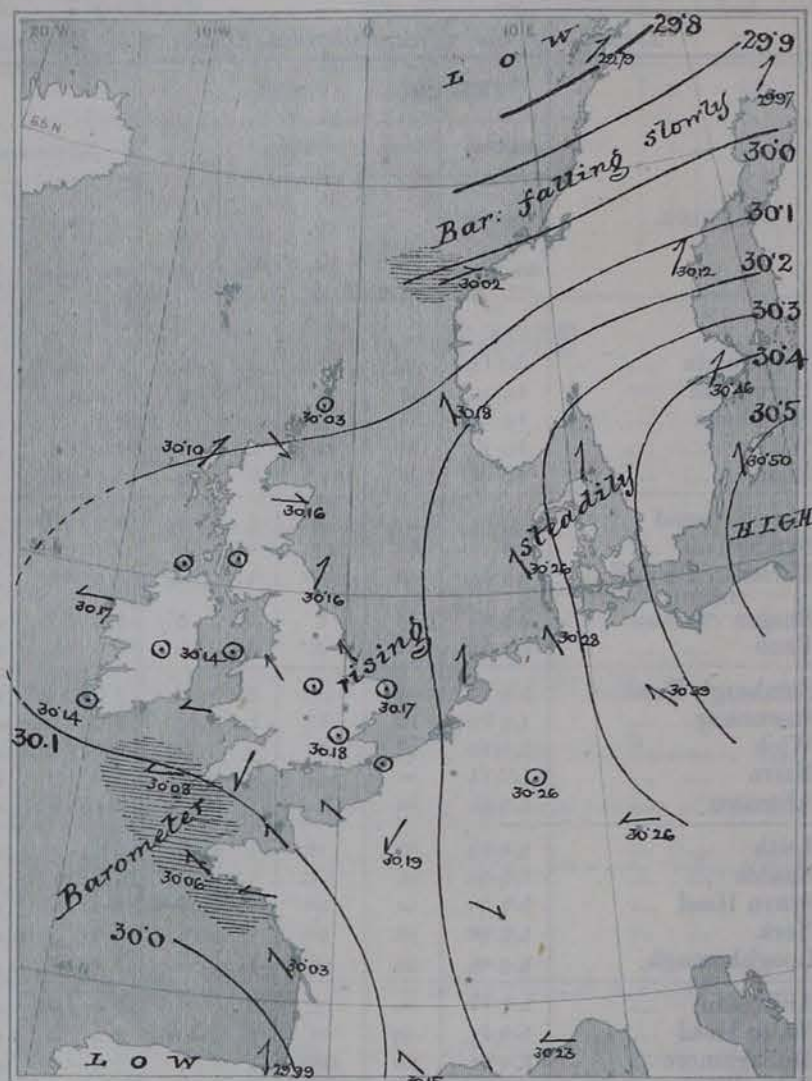
— Rough. — High.

MEAN HEIGHT OF THE BAROMETER

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

During the 20 Years: 1871–1890.

STATIONS.	MEAN READINGS.
Sumburgh Head	29.775
Stornoway	29.773
Wick	29.804
Nairn	29.814
Aberdeen	29.848
Leith	29.870
Shields	29.908
Spurn Head	29.934
York	29.939
Loughborough	29.963
Ardrossan	29.873
Mullaghmore	29.842
Donaghadee	29.881
Holyhead	29.911
Liverpool	29.934
Parsonstown	29.916
Valencia	29.919
Roche's Point	29.915
Pembroke	29.937
Scilly	29.939
Prawle Point	29.993
Jersey	30.007
Hurst Castle	29.986
Dover	29.985
LONDON	29.989
Oxford	29.985
Cambridge	29.979
Yarmouth	29.964



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

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

WEATHER—is shown by Letters of the Beaufort Scale.

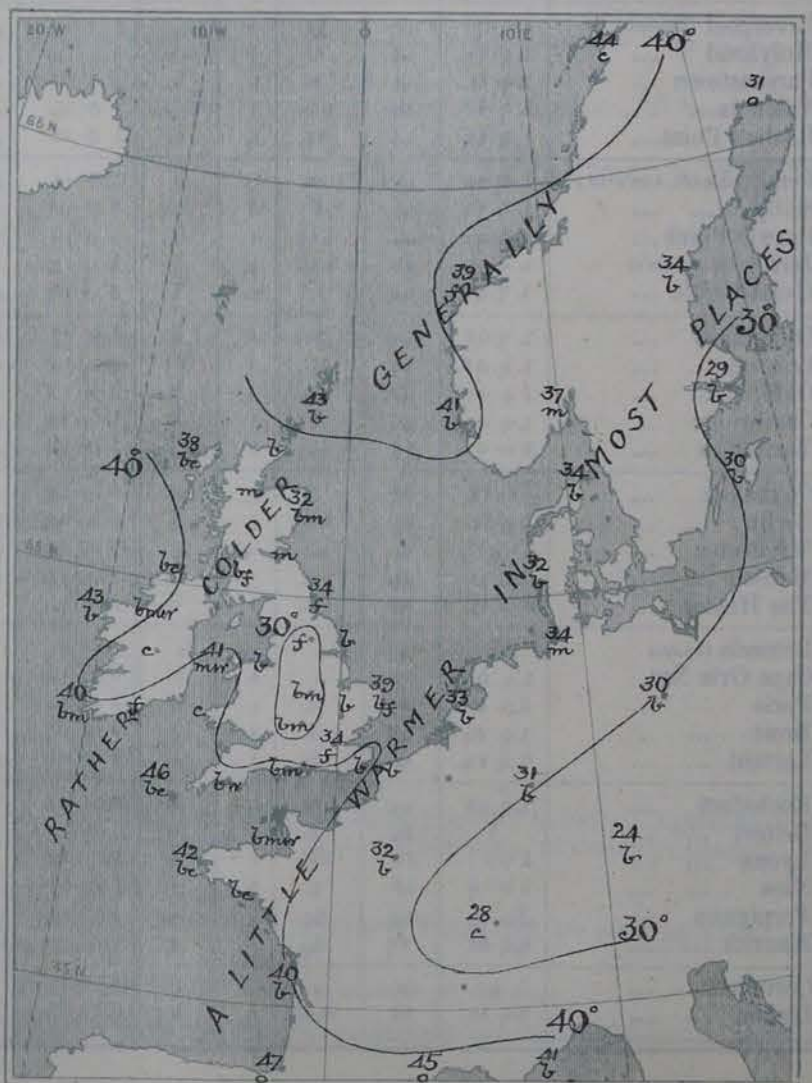
RAINFALL—A dotted line separates the districts in which rain has fallen from those where there has been none. Falls of 0.5 in. or more are quoted in figures.

MEANS OF TEMPERATURE IN SHADE, AND RAINFALL.

(For the month of February.)

STATIONS.	TEMPERATURE.				RAINFALL. (Inches.)
	Daily Max.	Daily Min.	at 8 a.m. Dry.	Wet.	
Sumburgh Head	42.4	34.5	38.5	37.4	3.19
Stornoway	43.5	34.6	39.1	38.1	3.86
Wick	43.1	33.2	38.1	36.7	2.04
Nairn	43.4	31.4	37.1	35.4	1.48
Aberdeen	43.2	33.8	37.3	35.7	2.35
Leith	43.7	34.3	38.6	37.1	1.45
Shields	43.8	35.1	38.6	37.3	1.50
Spurn Head	42.8	35.5	38.4	37.6	1.36
York	44.6	33.9	37.5	36.4	1.70
Loughborough	45.3	33.9	37.5	36.4	1.78
Ardrossan	41.6	36.3	39.4	38.2	3.04
Mullaghmore	46.6	38.6	42.0	40.3	2.80
Donaghadee	45.5	36.9	40.3	39.3	2.42
Holyhead	45.5	38.7	41.5	40.1	2.60
Liverpool	44.5	36.2	38.9	37.3	1.69
Parsonstown	46.9	35.6	39.4	38.1	2.20
Valencia	49.7	40.7	44.6	42.9	4.95
Roche's Point	48.4	39.6	43.1	41.6	4.43
Pembroke	45.5	39.4	42.1	40.9	2.82
Scilly	48.9	42.8	45.0	44.4	2.71
Prawle Point	46.8	33.1	41.5	40.5	2.02
Jersey	46.9	39.3	42.3	41.0	2.55
Hurst Castle	45.7	36.7	40.3	39.3	2.30
Dover	44.4	36.1	39.2	38.1	1.95
LONDON	45.8	35.1	38.6	37.4	1.73
Oxford	45.0	34.9	37.9	36.8	1.92
Cambridge	45.5	32.8	37.3	36.2	1.46
Yarmouth	42.6	34.5	38.2	37.3	1.82

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



GENERAL SITUATION AT 8 A.M.

PRESSURE

Highest, 30.5 ins. to 30.2 ins. in a large anticyclone lying to the Eastward of the North Sea, 30.1 ins. and more over the British Islands.
Lowest, 29.8 ins. and less, over Denmark, 29.9 ins. and less, over Portugal and the western parts of Spain.

Gradients slight.

Barometer rising generally.

TEMPERATURE

Highest, (1) 49° at Lisbon, 47° at Biarritz, 46° at Seville; (2) 44° at Bordeaux, 43° at Lumburg Hotel.

Lowest, 24° at Munich, 27° at York, 28° at Fish and Loughborough, 29° at Oxford and also at Stockholm, 30° at Berlin, 32° at Paris, 34° in London.

It rose to 60° in London and 61° at Cambridge yesterday, but fell rapidly again as night came on.

WIND

Very light from E. in the Channel, light to moderate from SE. over the Bay of Biscay, SW in Norway, S in Denmark and Sweden.

Variable airs and calms prevail over our Islands and France.

WEATHER

Fine as a whole, but hazy in many parts of the United Kingdom, foggy at York, and very foggy in London.

Air is dry generally, but hoar frost is reported at our inland stations.

SEA

Rather rough at the southwestern stations, moderate at Mullaghmore and Aberdeen, slight to very smooth elsewhere.

PROBABLE CHANGES IN SYSTEM NOW PREVALENT

The tendency at present is favourable for a marked increase of the area covered by fog as night comes on.

FORECASTS

For the 24 hours ending at NOON on 28th February 1891.

DISTRICTS.

FORECASTS.

DISTRICTS.

FORECASTS.

0 SCOTLAND
NORTH

SW^{ly} breezes, light or moderate; fair.

1 SCOTLAND
EAST

2 ENGLAND
N.E.

Varying S^{ly} airs; fine, hazy or foggy at times.

3 ENGLAND
EAST

4 MIDLAND
COUNTIES

Calms and E^{ly} airs; fine and warm day, very foggy at night and cold.

5 ENGLAND
SOUTH

6 SCOTLAND
WEST

Same as No. 0 and 1.

7 ENGLAND
N.W.

Same as No. 9 and 10.

8 ENGLAND
S.W.

E^{ly} airs and light breezes; fine day, foggy night.

9 IRELAND
NORTH

10 IRELAND
SOUTH

Calms and Varying airs; clear and foggy alternately.

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 ...	30.18	40	38	S	7	cm	5		Holyhead ...	29.87	55	45	S	3	6
Sumburgh Head ...	29.90	47	45	SSW	3	bc	4		Valencia ...	29.75	54	50	S	1	bc
Stornoway ...	29.83	47	46	N	2	c	2		Scilly ...	29.75	50	48	SE	4	0
Aberdeen ...	29.94	42	40	SSW	3	cm	3		Jersey ...	29.91	51	46	SE	4	6
Shields ...	29.94	46	41	SE	1	cm	2		Dungeness ...	29.98	47	45	S	3	bc
Ardrossan ...	29.87	49	43	NE	2	of	1		London ...	29.94	58	50	SSW	2	6
Malin Head ...	29.81	54	46	SSW	3	b	2		Yarmouth ...	30.00	40	39	SSW	2	bc
Mullaghmore ...	29.80	53	44	SE	4	bc	3		Rochefort ...	29.94	60	52	SE	4	6
Belmullet ...	29.79	50	46	NNE	1	0	*								

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

Weather still foggy at several of the English stations, as well as in Denmark, Poland, and Austria. Fine in nearly all other parts of Europe, but dull in the extreme west and north of our Islands, as well as over Algeria and the Spanish Peninsula, with rain at Lisbon. Fog dispersing over England, ^{later} and weather clearing also on our extreme western and northern coasts.

Temperature highest 58° at Algiers, 56° at Bilbao, 54° at Oran and LaFalle and 53° at Messina, Aporto, and San Fernando; above 45° in the extreme south-west of our Islands. Lowest (1) 3° at St. Petersburg, 12° at Krasnodar, 14° at Helsinki and 15° at Archangel; (2) 21° at Loughborough, and 23° at York and Oxford, below the freezing point over all the more northern, eastern, and central parts of Europe as well as over the inland parts of Great Britain. Rapid rise taking place over England and France during day, thermometer reaching 60° in several places and reaching 70° at Biarritz.

Wind light or moderate from the SE² over the greater part of Western Europe, as well as in Spain and Algeria. Calm or light and variable over Sweden, Germany and the Baltic, light from the N² or NW² over Russia, Austria, and Italy. Light N¹ breeze appearing later in the extreme west of our Islands.

Barometer highest 30.4 ins: and upwards, over the Gulf of Finland and the northern parts of the Baltic, 30.0 ins: and upwards in a large anticyclone covering the greater part of the Continent and the eastern part of England. Lowest, 29.8 ins: and less, in a irregularly shaped area lying to the westward and southwestward of our Islands and the northwest of Spain; 29.9 ins: and less, over the south of Russia. Rise taking place later on our western coasts and new high pressure system beginning to appear off the west of Ireland.

EXPLANATION OF COLUMNS GIVEN ON PAGE 1.

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

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

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

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

DAILY WEATHER REPORT.

for *Saturday, 28th February, 1891.*
Issued by the Meteorological Office, 63, Victoria Street, London. R. H. SCOTT, Secretary.

R. H. SCOTT, Secretary.																		
STATIONS.		YESTERDAY EVENING.					8 A.M. TO DAY.										PAST 24 HOURS.	
		BAROM.	TEMP.	WIND.			BAROMETER.		SHADE TEMP.			WIND.				SHADE TEMP.		
Reading at 32° F. and Sea Level.	Dry.	Direc.	Force. (0 to 12.)	Weather.	Reading at 32° F. and Sea Level.	Difference from 8 a.m. yesterday.	Dry.	Wet.	Difference from 8 a.m. yesterday.	Direc.	Force. (0 to 12.)	Weather.	Sea. (0 to 3.)	Max.	Min.	Amount of Rainfall.		
SCANDINAVIA.																		
Haparanda ...	29.92	32	W	4	b	29.80	-17	29	28	-2	SW	4	bc	*	34	23	-	
Hernösand ...	30.18	35	Z	0	b	29.98	-14	30	29	-4	SW	4	b	*	45	?	-	
Stockholm ...	30.39	33	SW	2	b	30.29	-17	30	28	+1	SSW	2	b	*	33	23	-	
Wisby ...	30.54	31	S	4	b	30.43	-17	31	30	+1	SSW	4	b	*	?	25	-	
Bodö ...	29.80	43	SW	8	0	29.43	-36	43	40	-1	SW	8	0	*	45	39	-	
Christiansund ...	30.06	40	SE	2	b	29.71	-31	46	39	+7	S	4	c	5	46	36	-	
Skudesnaes ...	30.23	41	SSE	7	0	30.07	-11	39	38	-2	SSE	8	0	5	?	37	-	
Christiania Fjord (Færdar) ...	30.33	37	SSW	3	m	30.21	-10	37	36	0	SSW	3	m	2	37	36	-	
Skagen (The Scaw) ...	30.36	36	S	3	b	30.24	-12	35	34	-1	SW	3	b	3	37	34	-	
Fanö ...	30.34	31	SE	3	b	30.30	+04	30	29	-2	SE	3	b	*	48	28	-	
BRITISH ISLANDS.																		
Sumburgh Head ...	30.11	42	W	1	b	29.72	-31	43	41	0	WSW	4	r	4	49	40	0.03	
Stornoway ...	30.12	43	SW	3	bc	29.71	-39	44	43	+6	SW	6	r	6	50	35	0.02	
Wick ...	30.15	40	NW	1	b	29.75	-34	43	42	+10	SSW	2	0	1	53	33	-	
Nairn ...	30.14	40	Z	0	m	29.74	-27	43	39	+10	SSW	3	c	2	48	31	-	
Aberdeen ...	30.20	42	SSE	2	b	29.96	-20	39	37	+7	S	4	cqm	4	49	31	-	
Leith ...	30.19	37	SW	1	b	30.06	-13	39	37	+11	Z	0	m	*	45	27	-	
Shields ...	30.22	45	Z	0	f	30.14	-02	39	37	+5	SSW	1	f	2	48	32	-	
Spurn Head ...	30.25	42	ESE	3	bm	30.23	+06	40	38	+2	SSE	2	bmw	2	46	36	-	
York ...	30.20	51	SE	1	b	30.23	+04	32	32	+5	SE	1	b	*	55	26	-	
Loughborough ...	30.24	48	SE	1	b	30.29	+11	28	28	0	Z	0	bcm	*	64	28	-	
Ardrossan ...	30.19	46	Z	0	bf	30.10	-04	43	42	+7	SSW	4	0	3	51	35	-	
Malin Head ...	30.22	44	N	1	b	30.05	-09	43	39	-1	SW	4	0	3	47	39	-	
Mullaghmore ...	30.22	44	NW	1	bm	30.14	00	43	40	+2	SSW	4	0	3	48	38	-	
Belmullet ...	30.23	49	NNE	1	b	30.13	-04	46	44	+3	WSW	4	0	*	50	38	-	
Donaghadee ...	30.22	44	SSW	1	f	30.17	+02	37	37	+3	W	2	f	0	50	32	-	
Liverpool (Bidston) ...	30.23	45	WSW	1	b	30.24	+10	40	38	+1	S	1	bc	2	56	37	-	
Holyhead ...	30.23	45	Z	0	bm	30.23	+09	43	43	+2	SSW	1	bmw	1	53	38	-	
Parsonstown ...	30.23	48	Z	0	b	30.25	+12	36	34	-3	Z	0	b	*	53	31	-	
Valencia ...	30.23	49	WSW	1	bcm	30.29	+15	44	43	+4	SE	1	f	2	57	37	-	
Roche's Point ...	30.23	42	SE	1	f	30.30	+17	38	37	-5	SE	1	b	3	50	37	-	
Pembroke (St. Ann's Hd.) ...	30.22	45	NW	1	bc	30.28	+15	40	39	-3	E	1	m	0	49	38	-	
Scilly ...	30.18	48	NE	4	c	30.26	+18	45	44	-1	N	1	bc	5	51	43	-	
Prawle Point ...	30.21	48	EHE	3	c	30.29	+17	50	45	+10	EHE	1	bcm	0	55	40	-	
Jersey (St. Aubin's) ...	30.17	54	NE	2	bcm	30.28	+16	38	34	-7	EHE	3	cm	3	62	35	-	
Hurst Castle ...	30.23	45	E	2	bcm	30.30	+13	32	32	-8	NE	1	m	1	55	30	-	
Dungeness ...	30.23	44	E	2	b	30.26	+09	31	31	-12	E	2	f	0	52	29	-	
London ...	30.26	49	ESE	1	bm	30.29	+11	30	29	-4	Z	0	f	*	62	29	-	
Oxford ...	30.27	38	NE	1	b	30.31	+13	29	28	0	Z	0	bf	*	62	28	-	
Cambridge ...	30.25	50	S	1	b	30.30	+10	32	31	-5	S	1	b	*	67	25	-	
Yarmouth ...	30.25	43	Z	0	bm	30.26	+09	35	34	-4	Z	0	bf	2	43	30	-	
GERMANY & HOLLAND.																		
Cuxhaven ...	30.32	37	SE	2	b	30.34	+06	31	30	-3	SSE	2	m	*	40	30	-	
Berlin ...	30.43	34	SE	4	b	30.42	+03	28	27	-2	SE	2	b	*	45	27	-	
Wiesbaden ...	*	*	*	*	*	30.34	+08	32	32	+1	Z	0	b	*	52	30	-	
Munich ...	30.31	30	E	3	b	30.36	+10	16	16	-8	E	2	m	*	37	16	-	
The Helder ...	30.30	38	NE	1	b	30.27	+06	34	33	+1	SE	1	f	1	45	33	-	
FRANCE AND BELGIUM.																		
Brussels (9 a.m.) ...	*	*	*	*	*	30.28	*	39	36	*	ESE	1	b	*	60	35	-	
Cape Gris Nez ...	30.22	47	EHE	1	m	30.24	+10	37	36	-13	NE	2	f	1	54	36	-	
Paris ...	30.30	50	NNE	2	b	30.27	+08	30	30	-2	N	2	b	*	63	30	-	
Brest ...	30.17	53	Z	0	0	30.31	+25	44	?	+2	E	1	b	0	57	37	-	
Lorient ...	30.13	49	Z	0	b	30.25	+19	41	37	0	E	2	b	4	54	41	-	
Rochefort ...	30.10	52	NW	3	bc	30.23	+20	40	38	0	E	3	b	*	63	32	-	
Belfort ...	?	36	NNE	1	bc	?	?	29	?	+1	NNE	1	f	*	53	25	-	
Lyons ...	30.23	50	SSE	1	b	30.35	+11	34	32	-2	E	1	b	*	59	33	-	
Nice ...	30.23	50	SW	3	b	30.28	+05	43	37	+2	E	5	b	1	59	32	-	
Perpignan ...	30.19	51	SE	2	0	30.31	+16	39	39	-6	SE	2	bc	*	59	37	-	
Biarritz ...	30.06	56	E	2	0	30.18	+19	51	46	+4	S	2	c	3	64	46	-	
PORTUGAL.																		
Lisbon ...	29.46	52	S	4	b	30.12	+31	47	46	-2	NNE	3	c	5	57	46	-	

WEATHER CHARTS

for 8 a.m. on Saturday, 28th February, 1891.

BAROMETER, WIND AND SEA.

EXPLANATION OF MAP

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

Changes since previous morning are stated in words.

WIND—Arrows show the prevalent winds. They fly with the wind and

their barbs and feathers refer to force thus

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

→ = forces 5 to 7; → = forces 1 to 4.

○ = dead calm.

SEA DISTURBANCE—Where considerable, is shown thus

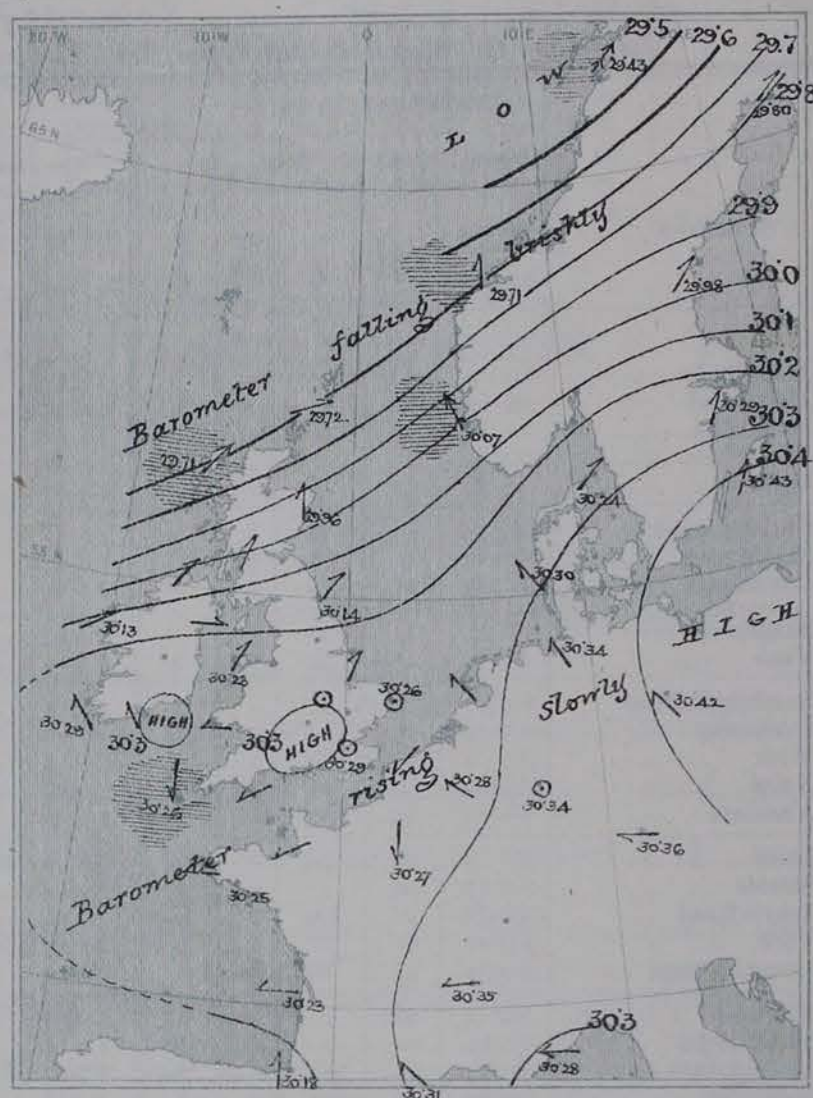
☼ = Rough. ☼ = High.

MEAN HEIGHT OF THE BAROMETER

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

During the 20 Years: 1871—1890.

STATIONS.	MEAN READINGS.
Sumburgh Head	29.775
Stornoway	29.773
Wick	29.804
Nairn	29.814
Aberdeen	29.848
Leith	29.870
Shields	29.908
Spurn Head	29.934
York	29.939
Loughborough	29.963
Ardrossan	29.873
Mullaghmore	29.812
Donaghadee	29.884
Holyhead	29.914
Liverpool	29.934
Parsonstown	29.946
Valencia	29.919
Roche's Point	29.913
Pembroke	29.937
Sally	29.959
Prawle Point	29.993
Jersey	30.007
Hurst Castle	29.986
Dover	29.985
LONDON	29.989
Oxford	29.985
Cambridge	29.979
Yarmouth	29.961



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

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

WEATHER—is shown by letters of the Beaufort Scale.

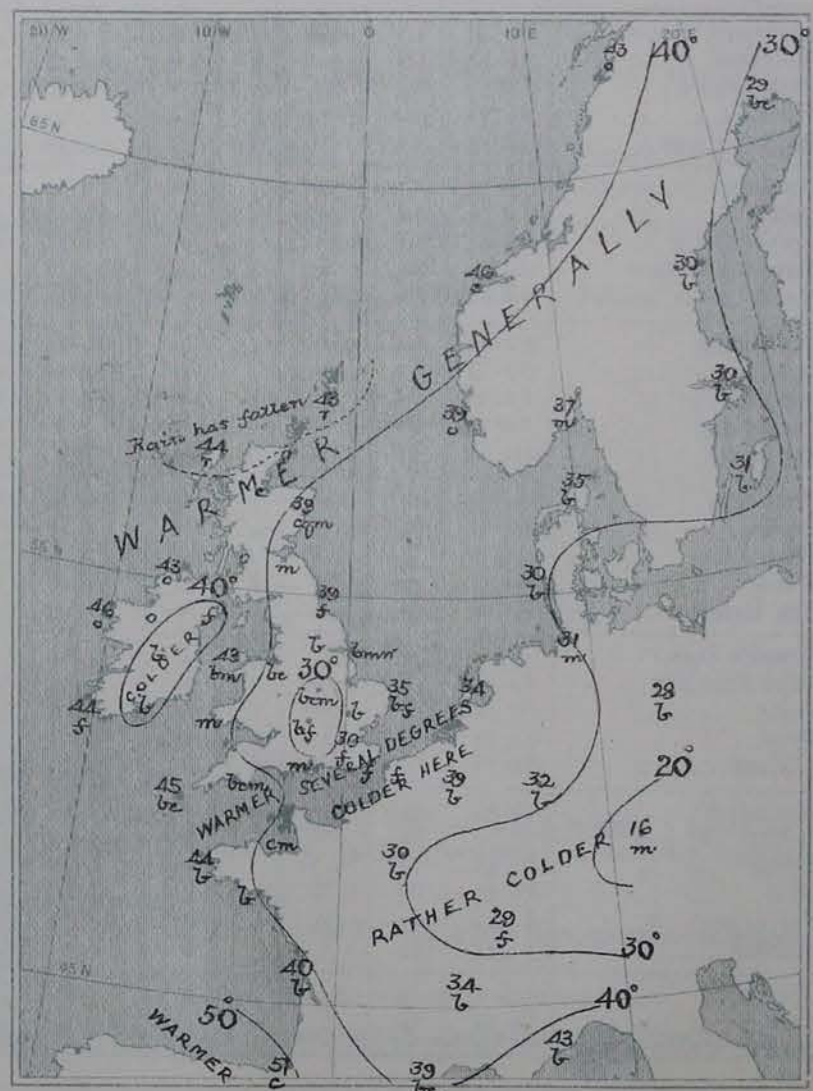
RAINFALL—A dotted line separates the districts in which rain has fallen from those where there has been none. Falls of 0.5 in. or more are quoted in figures.

MEANS OF TEMPERATURE IN SHADE, AND RAINFALL.

(For the month of February.)

STATIONS.	TEMPERATURE.				RAINFALL. (Inches.)
	Daily Max.	Daily Min.	at 8 a.m. Dry	Wet.	
Sumburgh Head	42.4	34.5	38.5	37.4	3.10
Stornoway	43.5	34.6	39.1	38.1	3.86
Wick	43.1	33.2	38.1	36.7	2.04
Nairn	43.4	34.4	37.1	35.4	1.48
Aberdeen	43.2	33.8	37.3	35.7	2.35
Leith	43.7	34.3	38.6	37.1	1.45
Shields	43.8	35.1	38.6	37.3	1.50
Spurn Head	42.8	35.5	38.4	37.6	1.36
York	44.6	33.9	37.5	36.4	1.70
Loughborough	45.3	33.9	37.5	36.4	1.78
Ardrossan	44.6	36.3	39.4	38.2	3.04
Mullaghmore	46.6	38.6	42.0	40.3	2.80
Donaghadee	45.5	36.9	40.3	39.3	2.42
Holyhead	45.5	38.7	41.5	40.1	2.60
Liverpool	44.5	36.2	38.9	37.3	1.69
Parsonstown	46.9	35.6	39.4	38.1	2.20
Valencia	43.7	40.7	44.6	42.0	4.95
Roche's Point	48.4	39.0	43.1	41.6	4.43
Pembroke	45.5	39.4	42.1	40.9	2.82
Sally	43.9	42.8	45.0	44.4	2.71
Prawle Point	46.8	38.1	41.5	40.5	2.02
Jersey	46.9	39.3	42.3	41.0	2.55
Hurst Castle	45.7	36.7	40.3	39.3	2.30
Dover	44.4	36.1	39.2	38.1	1.95
LONDON	45.8	35.1	38.6	37.4	1.73
Oxford	45.0	34.9	37.9	36.8	1.92
Cambridge	45.5	32.8	37.3	36.2	1.46
Yarmouth	42.6	34.5	38.2	37.2	1.82

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



GENERAL SITUATION AT 8 A.M.

PRESSURE

Highest, 30.4 in. and more, to 30.3 in. over the Baltic, Germany, and east of France, 30.2 in. and more over the southern half of our Islands, the Bay of Biscay, and west of France.
Lowest, 29.8 in. and less, off the north of Scotland; 29.4 in. over Linnank.

Gradients have become rather steep in the north. Barometer falling rather decidedly at our northern stations, rising slowly in the south.

TEMPERATURE

Highest, 51° at Hamitz, 50° at Haver Point, 46° at Belmullet, 43° at Lumburgh Head and Bodo.

Lowest, (1) 16° at Munich, 28° at Berlin, (2) 29° at Haparanda, 30° at Hermand, (3) 28° to 32° over the inland parts of England.

It rose to 67° at Cambridge and to 62° in the Channel Islands and many parts of England, but fell fast as night came on. Sharp frost occurred on the grass over England during the night.

WIND

SW at all the northern stations — a gale at Bodo, a strong breeze at Stromsøy, and a moderate, but freshening breeze at our other northern stations. Over England it is calm, and over the Bay of Biscay light E.

WEATHER

Fine generally over all the southern and southeastern parts of our area, but foggy in places; dull and unsettled in the north, with rain at Stromsøy and Lumburgh Hd.

SEA

Rough in the Minch, rather so at Bodo, slight to very smooth elsewhere.

PROBABLE CHANGES IN SYSTEM NOW PREVALENT

The southwesterly wind in the north appears likely to spread southwards, and to blow a gale shortly on our northwestern and northern coasts.

FORECASTS

For the 24 hours ending at NOON on 1st March 1891.

DISTRICTS.

FORECASTS.

1	SCOTLAND NORTH	SW ² winds, strong to a gale; mild, squally, rain at times.
1	SCOTLAND EAST	{ SW ² winds, increasing in force; fair to unsettled, mild.
2	ENGLAND N.E.	
3	ENGLAND EAST	{ Calms followed by SW ² breezes, light; foggy to fine and warm.
4	MIDLAND COUNTIES	
5	ENGLAND SOUTH	

DISTRICTS.

FORECASTS.

6	SCOTLAND WEST	Same as No. 0.
7	ENGLAND N.W.	S and SW ² breezes, freshening; fair to showery
8	ENGLAND S.W.	Calms and fogs followed by light SW ² breezes and fine weather.
9	IRELAND NORTH	Same as No. 0.
10	IRELAND SOUTH	SW ² winds, freshening; showers in west, fair in east.

WARNINGS

The SOUTH CONE has been hoisted this morning in districts 0.6 and 9.

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

YESTERDAY'S 2 P.M. REPORTS.

	BAR.	THER.		WIND		WEA.	SEA		BAR.	THER.		WIND		WEA.	SEA
		D.	W.	D.	F.					D.	W.	D.	F.		
Skudesnaes ...	30.23	44	40	SSE	6	b	4	Holyhead ...	30.21	51	46	WNW	1	bm	1
Sumburgh Head ...	30.11	47	45	W	1	bc	3	Valencia ...	30.20	57	51	Z	0	bm	0
Stornoway ...	30.14	50	43	SW	2	b	2	Scilly ...	30.16	51	47	ESE	3	bc	5
Aberdeen ...	30.20	49	43	SSW	1	bm	4	Jersey ...	30.18	54	47	SE	1	b	2
Shields ...	30.20	46	41	Z	0	f	2	Dungeness ...	30.21	50	46	Z	0	b	0
Ardrossan ...	30.19	49	43	Z	0	b	3	London ...	30.22	61	52	E	1	bm	*
Malin Head ...	30.20	47	45	NW	1	b	3	Yarmouth ...	30.23	43	42	Z	0	b	1
Mullaghmore ...	30.21	47	45	WNW	2	bm	3	Rocheport ...	30.08	60	53	SE	3	b	*
Belmullet ...	30.22	50	46	NNE	1	b	*								

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

Weather still foggy or hazy in many parts of the United Kingdom, as well as at some of the German and Austrian stations, but fine over by far the greater part of the Continent. Dull over the Spanish Peninsula as well as in Turkey and the south of Russia with snow at Nicotiff and Constantinople. Fog clearing later in many parts of the United Kingdom; no rain falling in any part of Western Europe.

Temperature highest 58° at Algiers, 57° at Oran, 53° at Palma, and 58° at Cagliari, Monsu and Safale; above 40° on the western coasts of the United Kingdom. Lowest, 12° at Narva, 17° at Archangel, 18° at Riga and Hermanstadt, and 13° at St. Petersburg, Petersburg, and Charkow, below the freezing point in most parts of northern, eastern and central Europe, as well as over the central parts of Great Britain. Rapid rise occurring over England during day, thermometer rising above 60° in many places and reaching 67° at Cambridge.

Wind light from the E² (NE to SE) over Ireland, England, France, Spain and the greater part of central and eastern Europe. Light from the SE over Denmark and the Baltic; SW¹ or W¹ over Scandinavia and Scotland; N¹ in Italy, S¹ or SE¹ in Algeria. No important change occurring during day.

Barometer highest, 30.5 in: and upwards over western and central Russia and the eastern part of the Baltic, but high 30.1 in: and upwards in a large anticyclone embracing the whole of our Islands and the greater part of the Continent. Lowest 29.8 in: and less, in a depression lying off the northwest of Norway; 29.9 in: and less, in a shallow area lying to the westward of the Iberian Peninsula. No important change occurring 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.	BAROMETER.		SHADE TEMP.			WIND.		Weather.	Sea (0 to 8.)	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.			
2	Nice	30.19	40	NW	6	r	30.28	-11	44	-	+1	NE	6	0	4	?	34	0.95		
"	Corunna	*	*	*	*	*	30.66	+28	41	40	-7	NW	1	6	6	57	36	-		
3	Hararanda	29.71	29	SE	2	0	29.04	-89	28	28	+1	SW	4	0	*	30	19	0.32		
"	Brussels	*	*	*	*	*	30.64	-03	34	-	+2	SW	5	m	*	35	30	0.04		
"	Corunna	*	*	*	*	*	30.58	-08	41	39	0	NE	1	6	5	57	36	-		
4	Corunna	*	*	*	*	*	30.54	-04	40	37	-1	NE	1	6	5	59	34	-		
5	Brussels	*	*	*	*	*	30.68	+14	29	-	-12	NW	4	0	*	42	28	-		
"	Corunna	*	*	*	*	*	30.60	+06	46	46	+6	NE	4	c	4	54	37	0.04		
6	Corunna	*	*	*	*	*	30.56	-04	46	-	0	SE	4	6	3	?	?	-		
7	Corunna	*	*	*	*	*	30.37	-19	42	-	-4	NNE	1	c	6	57	36	-		
9	Brussels	*	*	*	*	*	30.39	-03	27	-	-1	NNE	2	m	*	30	25	-		
"	Corunna	*	*	*	*	*	30.28	-01	38	36	0	NE	1	6	5	50	34	-		
10	Corunna	*	*	*	*	*	30.27	-01	46	43	+8	NE	4	6	?	?	?	-		
11	Brussels	*	*	*	*	*	30.39	-04	32	-	+5	SW	4	0	*	32	26	-		
"	Corunna	*	*	*	*	*	30.42	+15	39	37	-7	NE	4	f	4	55	34	-		
12	Corunna	*	*	*	*	*	30.51	+09	44	40	+5	NW	1	6	5	55	32	-		
13	Corunna	*	*	*	*	*	30.45	-06	48	44	+4	NE	6	6	5	52	34	-		
14	Corunna	*	*	*	*	*	30.36	-09	47	44	-1	NE	8	6	4	55	39	-		
16	Corunna	*	*	*	*	*	30.43	+05	46	40	+2	NE	1	m	3	63	37	-		
17	Corunna	*	*	*	*	*	30.38	-05	43	40	-3	N	1	6	3	59	37	-		
18	Corunna	*	*	*	*	*	30.30	-08	42	40	-1	NE	2	6	4	59	36	-		
19	Corunna	*	*	*	*	*	30.27	-03	41	40	-1	NW	1	f	4	57	36	-		
20	Lyons	30.45	41	SE	1	6	30.47	+02	30	-	0	ENE	1	6	*	49	29	-		
"	Corunna	*	*	*	*	*	30.21	-06	46	43	+5	NW	1	6	4	50	36	-		
21	Brussels	*	*	*	*	*	30.38	-05	34	-	-3	NE	2	6	*	51	31	-		
"	Corunna	*	*	*	*	*	30.01	-20	58	51	+12	ESE	3	0	4	68	43	-		
23	Belfort	30.38	35	NNE	1	6	30.49	-	25	-	-1	NNE	2	60	*	46	?	-		
"	Corunna	*	*	*	*	*	30.18	+07	64	55	+5	S	1	60	1	75	55	-		
24	Skagen	30.50	30	NSW	3	f	30.42	-16	33	33	+3	NSW	3	f	3	34	28	-		
"	Corunna	*	*	*	*	*	30.17	-01	53	44	-11	S	3	m	4	77	48	-		
25	Corunna	*	*	*	*	*	30.03	-14	47	42	-6	SSE	2	f	4	66	37	-		
26	Corunna	*	*	*	*	*	29.80	-23	53	48	+6	SSW	1	0	4	64	45	-		
27	Brussels	*	*	*	*	*	30.21	+13	44	-	+4	SE	2	6	*	59	39	-		
"	Corunna	*	*	*	*	*	29.89	+09	51	49	-2	SSE	1	0	5	59	46	-		
28	Corunna	*	*	*	*	*	30.22	+33	50	45	-1	SSE	2	6	6	61	43	-		

2. CORRECTIONS.

[illegible]