

METEOROLOGICAL OFFICE,
✓
LONDON.

DAILY WEATHER REPORTS.

1ST JANUARY—30TH JUNE,
1889.

Sec. Reg. Lond.

9/12/89

January to June 1889.

January to June 1889.



DAILY WEATHER REPORT.

for Monday, 1st April,

1889.

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

STATIONS.	† YESTERDAY EVENING.					9 A.M. TO DAY.										PAST 24 HOURS.		
	Barometer at 32° F. and Sea Level.	Temp. in Shade.	WIND.		Weather.	BAROMETER.		SHADE TEMP.			WIND.		Weather.	Sea. 0 to 9.)	SHADE TEMP.		Amount of Rainfall.	
			Dir.	Force. (0 to 12.)		Reading at 32° F. and Sea Level.	Difference from 8 a.m. yesterday.	Dry.	Wet.	Difference from 8 a.m. yesterday.	Dir.	Force. (0 to 12.)			Max.	Min.		
SCANDINAVIA.																		
Haparanda ..	29.67	18	2	0	bc	29.73	+ 01	23	22	+ 1	2	0	0	*	32	14	-	
Hernösand ...	29.82	23	2	0	b	29.65	- 14	27	26	+ 1	5	2	0	*	39	21	-	
Stockholm ...	29.88	28	2	0	o	29.70	- 12	34	31	+ 14	5	2	bc	*	39	27	-	
Wisby ...	29.87	32	SW	4	c	29.78	- 07	33	31	+ 3	SSW	4	b	*	?	23	-	
Bodö ...	29.58	27	ESE	4	b	29.38	- 43	27	23	- 1	ESE	6	5	3	30	23	-	
Christiansund...	29.60	39	SW	3	c	29.26	- 44	40	38	+ 2	SSE	1	0	3	41	34	-	
Skudesnaess ...	29.75	36	SSW	2	r	29.46	- 31	37	36	+ 2	S	2	0	3	?	34	0.35	
Christiania Fjord (Farder)	29.74	36	SSW	2	c	29.48	- 32	34	34	- 2	SSW	3	r	2	39	34	-	
Skagen (The Scaw)	29.71	86	SSW	1	o	29.48	- 30	34	33	- 2	SSW	2	S	1	45	34	-	
Fanö ...	29.69	39	2	0	o	29.63	- 13	37	37	0	NW	4	0	*	41	37	-	
BRITISH ISLANDS.																		
Sumburgh Head	29.75	44	W	1	c	29.42	- 37	40	37	- 4	NW	3	bc	3	48	35	0.09	
Stornoway. . .	29.89	46	W	4	o	29.72	- 16	42	41	- 3	NW	5	0	4	50	38	0.06	
Wick ...	29.81	46	NW	4	c	29.58	- 22	37	36	- 8	NW	4	oprs	3	49	34	0.20	
Nairn ...	29.87	48	W	1	b	29.69	- 16	43	41	0	NW	3	0	4	51	37	0.10	
Aberdeen...	29.87	46	NW	2	bc	29.68	- 18	42	39	- 1	W	5	bc	3	49	38	0.05	
Leith ...	29.89	46	W	1	bc	29.78	- 07	48	42	+ 8	W	4	bc	*	54	39	-	
Shields ...	29.87	45	NNE	1	bc	29.84	- 00	44	40	+ 3	W	3	bc	2	49	36	-	
Spurn Head ...	29.87	44	N	3	bc	29.86	+ 02	42	40	+ 2	W	4	c	3	48	39	-	
York ...	29.85	47	N	1	bc	29.87	+ 03	42	40	- 2	NW	2	0	*	53	32	-	
Loughborough	29.89	44	NNE	1	c	29.96	+ 05	45	43	+ 2	W	3	c	*	55	34	0.01	
GERMANY.																		
Ardrossan ...	29.92	49	W	3	b	29.86	- 03	48	46	+ 1	NW	6	c	4	53	44	-	
Malin Head ...	30.02	45	NW	4	c	29.98	+ 02	46	44	+ 1	NW	5	om	4	47	45	-	
Mullaghmore ...	30.07	46	NW	4	r	30.12	+ 09	47	44	0	NW	6	0	5	51	45	0.03	
Belmullet ...	30.12	48	NW	4	o	30.18	+ 09	48	45	0	NW	5	bc	*	50	46	0.04	
Donaghadee ...	29.98	48	NNE	5	bc	30.01	+ 06	45	43	+ 1	NW	4	bc	2	49	43	0.01	
FRANCE & NETHERLANDS.																		
Barrow-in-Furness	29.90	46	NW	3	bc	29.96	+ 07	43	41	0	NW	3	0	*	50	41	0.08	
Liverpool (Bidston)	29.93	45	NW	1	c	29.99	+ 08	44	41	0	NW	5	0	4	48	41	0.02	
Holyhead ...	29.95	46	NW	5	c	30.05	+ 11	45	43	+ 1	NW	5	c	4	48	44	-	
Parsonstown ...	30.07	48	NW	2	o	30.18	+ 14	45	42	0	W	1	0	*	52	42	-	
Valencia ...	30.16	50	N	5	o	30.28	+ 15	48	44	- 2	N	2	cm	4	53	46	0.02	
SPAIN.																		
Roche's Point...	30.08	52	N	5	c	30.19	+ 16	48	43	0	NW	4	bc	4	53	45	-	
Pembroke ...	29.97	46	NW	5	c	30.11	+ 13	46	44	+ 1	NW	5	b	3	49	42	0.03	
Scilly ...	29.98	49	N	5	b	30.13	+ 12	48	47	0	N	5	e	5	50	45	0.05	
Prawle Point ...	29.93	43	N	2	c	30.08	+ 09	46	44	+ 2	N	3	b	2	49	36	0.32	
Jersey ...	29.90	49	NW	3	bc	30.06	+ 05	47	43	- 1	N	3	cm	3	52	43	-	
PORTUGAL.																		
Hurst Castle ...	29.89	44	NW	1	c	30.05	+ 08	41	40	- 4	NW	1	b	1	50	35	0.14	
Dungeness ...	29.84	45	WSW	4	r	29.87	- 03	42	41	- 3	NW	3	c	2	52	35	0.10	
London ...	29.84	46	N	1	or	29.99	+ 08	39	38	- 6	NW	1	og	*	52	35	-	
Oxford ...	29.93	40	NW	1	b	30.01	+ 07	42	41	+ 1	W	2	b	*	52	35	-	
Cambridge ...	29.92	46	NW	1	o	29.96	+ 07	42	42	- 4	W	1	c	*	53	34	0.07	
AFRICA.																		
Yarmouth ...	29.85	45	N	2	b	29.89	+ 04	41	40	- 3	NW	3	e	2	47	34	-	
Cuxhaven ...	29.72	43	SW	2	c	29.70	- 08	41	40	- 2	W	5	0	*	46	39	0.04	
Berlin ...	29.82	42	SSE	2	r	29.76	- 09	45	45	+ 10	W	2	r	*	45	?	0.08	
Wiesbaden ...	*	*	*	*	*	29.84	- 07	44	41	- 2	N	2	r	*	54	43	0.08	
Munich ...	29.90	40	NE	1	o	29.84	- 13	37	37	- 2	SW	3	0	*	48	32	-	
ASIA.																		
The Helder ...	29.82	40	NW	2	o	29.85	+ 07	41	40	- 1	NW	2	e	3	43	39	0.12	
Brussels 9 A.M.	*	*	*	*	*	29.95	+ 08	42	39	- 4	W	2	c	*	47	39	0.04	
Cape Gris Nez...	?	44	SSW	1	c	?	?	40	39	- 2	WSW	1	c	1	50	37	0.04	
Paris ...	29.87	48	ESE	1	o	29.98	- 00	39	38	- 6	N	2	0	*	53	39	0.04	
Brest ...	29.97	49	N	4	o	30.13	- 00	44	41	- 4	NW	1	bc	2	55	41	-	
Lorient ...	29.91	47	W	4	o	30.02	- 06	43	41	- 2	NNE	4	b	4	52	43	0.04	
Rocheport ...	29.97	48	NW	4	bc	30.03	- 07	43	42	- 5	NNE	3	bc	2	50	36	0.08	
Belfort ...	29.93	37	W	1	o	29.88	- 10	45	44	- 1	W	1	0	*	53	36	-	
Lyons ...	29.80	50	N	1	o	29.90	- 13	43	42	- 3	N	1	r	*	57	42	0.04	
Nice ...	29.89	51	SSE	4	bc	29.88	- 02	50	49	+ 2	20	0	m	1	59	46	-	
Perpignan ...	29.94	56	NW	1	o	29.85	- 23	48	43	- 5	W	1	0	*	65	45	-	
Biarritz ...	30.00	50	WSW	4	a	29.89	- 23	44	42	- 5	S	3	r	3	57	41	0.24	
AUSTRALIA.																		
Lisbon ...	30.06	52	N	6	b	30.10	+ 04	52	49	+ 1	N	4	b	4	61	50	-	

WEATHER CHARTS

for 8 a.m. on Monday, 1st April.

1889.

BAROMETER, WIND & SEA.

(Explanation of Map)

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

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

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

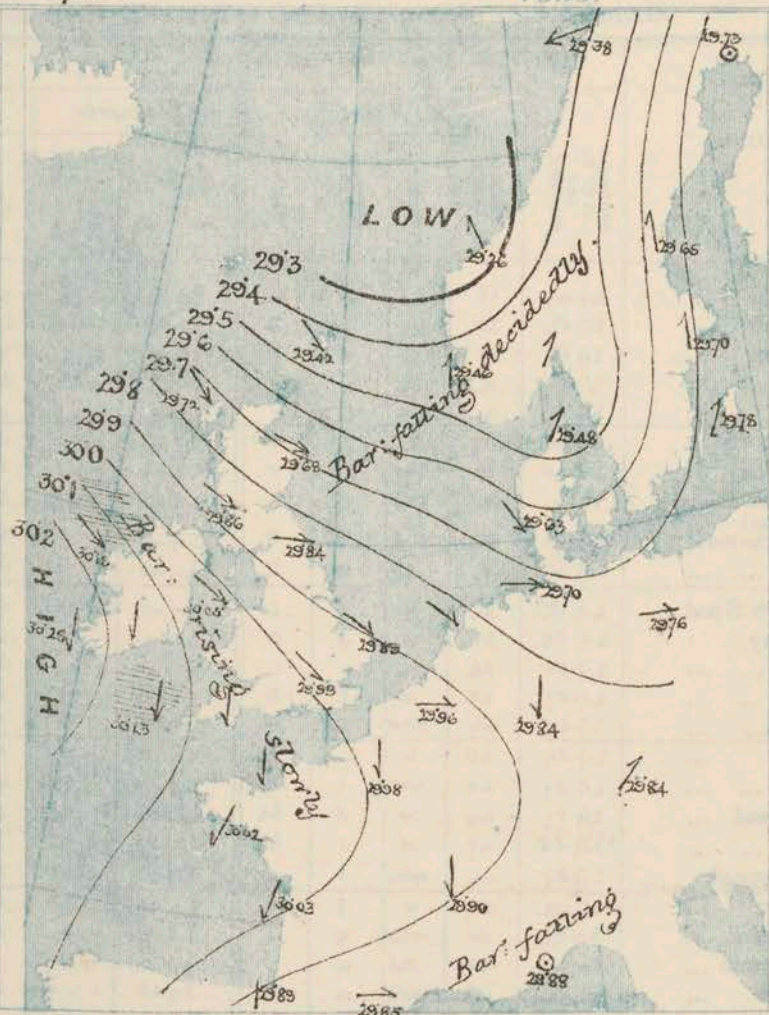
Sea Disturbance — where considerable is shown thus.

☼ = Rough, ☼ = High.

MEAN HEIGHT of the BAROMETER

at 8 a.m. for the month of April
During the 15 Years 1871-1885.

STATIONS.	MEAN READINGS.
	in.
Sumburgh Head	29.849
Stornoway	29.821
Wick	29.853
Nairn	29.853
Aberdeen	29.862
Leith	29.865
Shields	29.870
York	29.877
Loughborough	29.878
Ardrossan	29.867
Donaghadee	29.853
Holyhead	29.851
Liverpool	29.864
Parsonstown	29.853
Valencia	29.835
Roche's Point	29.833
Pembroke	29.844
Scilly	29.849
Jersey	29.867
Hurst Castle	29.867
Dover	29.866
LONDON	29.877
Oxford	29.882
Cambridge	29.879
Yarmouth	29.876



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.

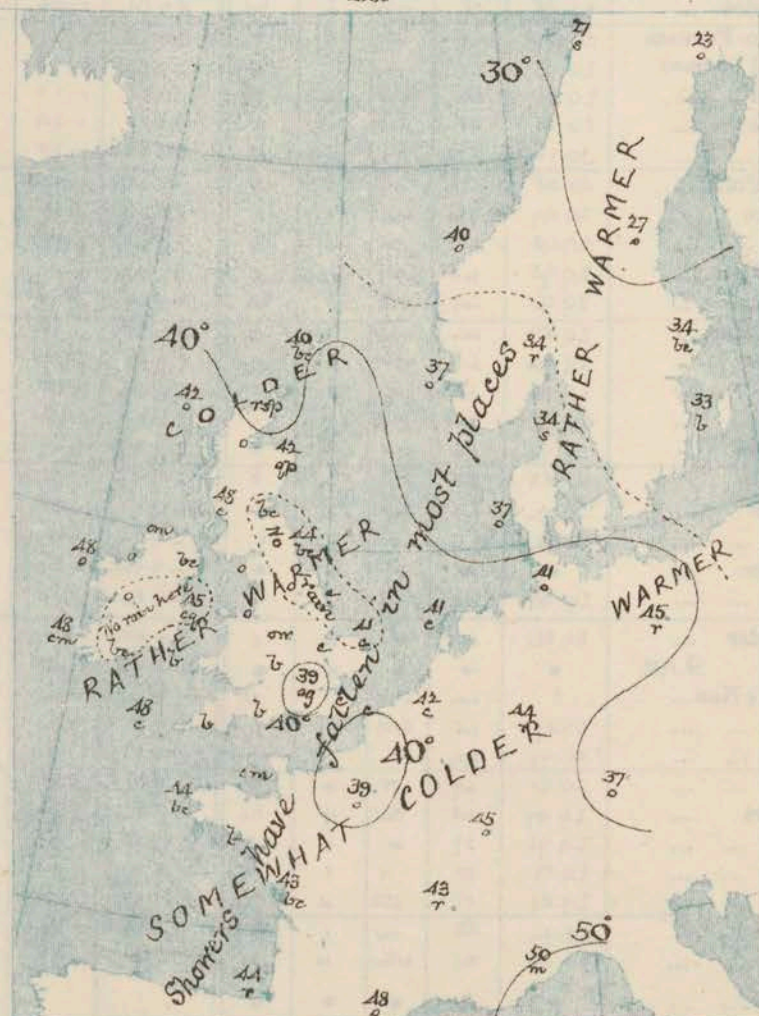
MEANS OF TEMPERATURE IN SHADE.

AND RAINFALL.

for the month of April.

STATIONS.	TEMPERATURE.				RAINFALL. (Inches)
	Daily Max.	Daily Min.	at 8 a.m.	at 4 p.m.	
Sumburgh Head	46.3	37.3	41.9	40.5	2.16
Stornoway	49.3	37.5	44.1	42.3	2.51
Wick	49.2	37.4	43.2	41.2	1.56
Nairn	51.5	37.9	43.1	40.6	1.23
Aberdeen	49.6	38.5	43.4	40.9	2.23
Leith	52.6	38.2	44.2	42.1	1.65
Shields	49.2	39.2	43.8	41.7	1.94
York	54.1	37.8	44.1	43.0	1.86
Loughborough	55.7	38.3	45.1	43.6	1.77
Ardrossan	52.1	39.9	44.6	43.3	2.23
Donaghadee	51.3	40.1	44.8	43.2	2.02
Holyhead	51.9	42.4	46.2	44.2	1.86
Liverpool	53.0	40.7	45.5	42.6	1.56
Parsonstown	55.0	38.3	45.7	43.0	2.15
Valencia	54.3	42.9	48.4	45.9	4.01
Roche's Point	54.2	42.4	47.0	44.9	3.43
Pembroke	50.8	42.1	45.6	43.6	2.10
Scilly	52.5	45.0	49.0	47.1	2.46
Jersey	54.6	43.5	49.0	46.4	2.04
Hurst Castle	52.3	41.4	45.9	44.6	1.87
Dover	51.5	42.4	47.1	44.5	1.81
LONDON	56.7	40.0	46.8	43.8	1.86
Oxford	55.1	39.3	46.0	42.7	1.79
Cambridge	56.2	37.7	45.5	43.3	1.76
Yarmouth	49.5	40.4	45.1	43.4	1.80

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



GENERAL SITUATION AT 8 A.M.

PRESSURE

Highest, 30.2 in: and upwards, in an anticyclone lying off the southwest of Ireland.
 Lowest, 29.3 in: and less, in a depression lying off the west of Norway.
 Barometer moderate or slight generally, but increasing on our northern coasts.
 Barometer falling at all but our southernmost and the Western French stations — most in the north.

TEMPERATURE

Highest, 52° at Lisbon, 50° at Nice, and 48° at Antwerp and Rotterdam, Valencia, Algeciras, Lillo, and Perpignan.
 Lowest, 18° at St. Petersburg, 2° at Oslo and Christiania, 33° at Malmö, 34° at Lander, Skagen, and Stockholm, and 37° at St. Petersburg, Minsk and Munich.

WIND

Fresh or strong from the NW. over our northernmost and some parts of our northern coasts.
 Moderate from W. over the southern parts of the North Sea and also over Germany.
 Moderate from the NW. over our southern coasts and the Bay of Biscay; light from the S. in Scandinavia.

WEATHER

Fine in the south of our Islands and the west of France.
 Cloudy elsewhere, with rain at several of the Continental stations, east at Minsk and west at St. Petersburg and Skagen.
 Showers fell yesterday in many parts of the Kingdom; over some portions of the Metropolitan area they were very heavy, and accompanied by hail and thunder.

SEA

Rather rough at Mullaghmore and Bally, but moderate or slight elsewhere.

PROBABLE CHANGES IN SYSTEM NOW PREVALENT

The depression off the west of Norway seems likely to travel southwards, and the NW² wind will probably blow strongly on our northern coasts. Showery weather is likely to prevail generally.

FORECASTS

for the 24 hours ending at NOON on 2nd April. 1889.

DISTRICTS.

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

FORECASTS.

NW² winds, increasing in force, a gale in places, squally, some cold showers.
 W² and NW² winds, freshening; fair to unsettled and some showers.

DISTRICTS.

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

WARNINGS

FORECASTS.

Same as N^o 0 and 1.

NW² winds, strong, squally, some showers.
 N² and NW² winds, fresh or strong; fair generally, but some showers.

Same as N^o 7

Same as N^o 8.

The NORTH CONE has been hoisted this morning in districts 0-6, and part of 1.

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

YESTERDAY'S 2 P.M. REPORTS.

	Bar.	Dry.	Wet.	Wind.	Wea.	Sea.		Bar.	Dry.	Wet.	Wind.	Wea.	Sea.		
Skudesnaes ...	29.78	36	35	SSE	1	orst	3	Holyhead ...	29.94	47	45	NW	4	bc	3
Samburgh Head ...								Valencia ...							
Stornoway ...	29.92	48	46	W	4	0	4	Scilly ...							
Aberdeen ...								Jersey ...	29.93	50	46	WNW	4	bc	3
Shields ...								Dungeness ...	29.85	45	43	WSW	4	bc	2
Ardrossan ...								London ...							*
Malin Head ...	29.99	47	44	NNW	4	0	4	Yarmouth ...							
Mullaghmore ...								Rochefort ...	30.03	49	47	NW	4	2	2
Belmullet ...	30.12	50	49	NNW	4	0	*								

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

The reports for yesterday morning showed that pressure varied from 30.10 ins. and more, over the southwest of our Islands and the Bay of Biscay, as well as over Tunis and eastern Algeria, to 29.6 ins. and less, in a large shallow depression which lay over Russia, and to 29.8 ins. and less, in a shallow "hollow" lying over the North Sea. Thus while the wind was moderate from NW over the British Islands and west of France, it was very variable on the Continent - SW to W in Holland and the east of France, S in Denmark, N over the Baltic Provinces and Poland, W over Adria, SW at Moscow, and SE at Archangel. Weather was very changeable - showery over the British Islands, dull in France, rainy over Austria and some parts of the Mediterranean (with snow at Hermannstadt) but fine over Russia, Finland, Sweden and also over the Spanish Peninsula. Temperature had fallen in many places - most over Germany - but risen over southern and southeastern Europe. Frost still held over Lapland, Sweden, Finland and many parts of Russia and Poland, but not elsewhere. The lowest morning readings were 13° at Kuopio and Hangö, 14° at Uleaborg, 16° at Helsingfors, 22° at St. Petersburg and Haparanda, 23° at Riga and at Kharkov, 25° at Kiev, 28° at Odessa and at Bodo, 30° at Mamel and Warsaw, the highest were 58° at Barcelona, 54° at Brindisi and Palermo, 56° at Algiers, 54° at Pesaro, Leghorn and Sangunais, 55° at Perpignan and Corunna, 51° at Lisbon, 50° at Valencia and 48° at Scilly and Belmullet. At Berlin the temperature was 35° at Vienna 41°, at Paris and in London 45°, and at Brussels 46°.

SUMMARY OF CHANGES IN THE WEATHER OVER THE BRITISH ISLANDS AND THEIR NEIGHBOURHOOD FROM THE 24TH TO THE 30TH MAR. 1889.

The weather of the past week has remained in a somewhat changeable and unsettled state generally, but over the southern parts of the Kingdom rain has been neither frequent nor heavy. On the 25th and 26th a NW gale and snow showers were experienced over the greater part of Scotland.

At the commencement of the time an anticyclone lay over the Bay of Biscay and France, while a large and rather deep depression existed off the northwest of Norway. Fresh SW and W winds were therefore prevalent over western Europe with mild damp weather and showers in many places. On the night of the 24th the depression in the far north travelled away in an easterly direction but on the following day two secondary disturbances appeared off the Scotch and Norwegian coasts. The former of these moved eastwards across Scandinavia without materially affecting the weather over our Islands, but the latter took a southeasterly course and as a rapid recovery of pressure occurred in its rear the wind veered to the NW or N generally and increased to a gale in Scotland with snow showers.

On the 27th a definite anticyclone appeared over our western coasts, and the N winds quickly subsided, with improving weather. During the ensuing 48 hours, however, the high pressure system gradually receded in a south-east direction to the Bay of Biscay and France and depressions again began to appear in the far north. The disturbances, however, although large were of no great depth and although the wind returned to the W and SW generally, with mild showery weather, no material increase of force was experienced on any part of our coasts. At the close of the week a large shallow area of low readings was extending south-eastwards down the North Sea and the wind over our Islands was veering. Temperature has fluctuated considerably. At the commencement of the period it was high generally, the maximum readings of the 24th being above 60° in many parts of Great Britain and as high as 66° at Aberdeen. On the 25th and 26th however, a brisk fall descended over the Kingdom from the northwest, the maxima of the former date being below 40° in the north of Scotland. Towards the close of the week the weather became milder and on the 29th the thermometer over central England rose a little above 60°.

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, 2nd April, 1889.*
 Issued by the Meteorological Office 63 Victoria Street, London. R. H. SCOTT, Secretary.

STATIONS.	+ YESTERDAY EVENING.					8 A.M. TO DAY.										PAST 24 HOURS.		
	Barometer at 32° F. and Sea Level.	Temp. in Shade.	WIND.		Weather.	BAROMETER.		SHADE TEMP.			WIND.		Weather.	Sea. (0 to 9.)	SHADE TEMP.		Amount of Rainfall.	
			Dir.	Force. (0 to 12.)		Reading at 8 A.M. and Sea Level.	Difference from 8 a.m. yesterday.	Dry.	Wet.	Difference from 8 a.m. yesterday.	Dir.	Force. (0 to 12.)			Max.	Min.		
SCANDINAVIA.																		
Haparanda ..	29.88	17	20	0	bc	30.10	+ .37	14	13	- .09	SSE	2	b	*	30	?	-	
Hernösand ...	29.69	30	S	8	S	29.87	+ .22	25	24	- .02	ESE	4	o	*	34	18	-	
Stockholm ...	29.62	29	SE	6	S	29.61	- .09	30	29	- .01	ESE	4	S	*	39	27	0.04	
Wisby ...	29.60	31	ESE	8	S	29.61	- .17	35	34	+ .02	S	4	o	*	?	27	0.16	
Bodö ...	29.48	32	ESE	6	b	29.71	+ .33	34	32	+ .02	ESE	2	b	1	32	23	-	
Christiansund...	29.32	37	ESE	2	b	29.45	+ .19	36	35	- .01	ESE	1	m	5	?	32	-	
Skudesnaes ...	29.39	36	WNW	2	o	29.89	- .07	35	34	- .02	SE	4	o	3	45	34	-	
Christiania Fjord (Færd)	29.36	34	SSE	2	f	29.44	- .08	35	34	+ .01	ESE	3	o	1	37	34	-	
Skagen (The Scaw)	29.36	34	WNW	2	b	29.41	- .07	33	33	- .01	S	1	f	1	39	32	0.12	
Fanö ...	29.50	37	SW	4	c	29.46	- .17	38	37	+ .01	SW	2	c	*	43	36	0.16	
BRITISH ISLANDS.																		
Sumburgh Head	29.46	37	WNW	6	osp	29.58	+ .12	35	34	- .05	WNW	7	osp	6	44	32	0.06	
Stornoway ...	29.79	40	NW	6	rsp	29.96	+ .17	36	35	- .06	NW	6	o	5	46	35	0.05	
Wick ...	29.65	37	NW	6	o	29.76	+ .11	34	33	- .03	N	7	ou	5	44	31	0.20	
Nairn ...	29.74	39	NW	3	o	29.88	+ .19	36	34	- .02	WNW	4	o	3	45	35	0.05	
Aberdeen...	29.69	37	WNW	7	qpsu	29.80	+ .12	35	33	- .02	WNW	7	crspu	6	46	34	0.17	
Leith ...	29.75	41	NW	5	c	29.88	+ .13	40	34	- .08	NW	4	c	*	53	34	-	
Shields ...	29.72	43	NW	2	c	29.84	+ .12	38	35	- .06	WNW	3	b	2	50	33	0.02	
Spurn Head ...	29.71	45	W	7	c	29.83	- .03	40	36	- .02	NW	6	bc	5	49	37	0.05	
York ...	29.75	45	W	4	c	29.84	- .03	41	36	- .01	WNW	4	b	*	54	34	0.01	
Loughborough	29.88	44	WNW	5	c	29.92	- .04	41	38	- .03	WNW	2	c	*	52	37	0.03	
Ardrossan ...	29.85	44	W	6	c	29.94	+ .09	40	38	- .08	NW	6	c	4	49	38	0.03	
Malin Head ...	29.96	46	NW	5	cyp	30.05	+ .09	42	41	- .01	WNW	5	ogp	4	47	42	0.01	
Mullaghmore ..	30.10	49	NW	6	cyp	30.13	+ .03	47	45	- .02	NW	5	ogp	4	51	45	-	
Belmullet ...	30.17	50	NW	5	b	30.19	+ .02	50	48	+ .02	NW	4	o	*	52	46	0.05	
Donaghadee ...	29.94	47	WNW	5	bc	30.02	+ .08	43	40	- .02	NW	6	bc	4	51	40	0.02	
Barrow-in-Furness	29.83	44	NW	6	bc	29.93	- .03	40	36	- .03	NW	5	bc	*	49	38	0.03	
Liverpool (Bidston)	29.90	44	WNW	7	c	29.97	- .02	42	37	- .02	NW	6	bc	5	49	39	0.03	
Holyhead ...	29.99	47	WNW	5	ogp	30.04	- .01	44	41	- .01	WNW	5	ogp	5	52	42	0.03	
Parsonstown ...	30.12	51	NW	3	bc	30.19	+ .07	47	46	+ .02	NW	2	*	*	57	42	0.01	
Valencia ...	30.27	51	NW	3	ogp	30.31	+ .04	51	49	+ .03	WNW	5	ogp	1	55	46	0.01	
Roche's Point...	30.15	52	WNW	5	b	30.20	+ .05	50	47	+ .02	WNW	5	c	4	53	46	-	
Pembroke ...	30.05	48	WNW	5	b	30.10	- .01	46	44	- .02	WNW	6	bc	4	49	44	-	
Scilly ...	30.17	49	WNW	5	bc	30.18	+ .01	50	48	+ .02	NW	6	c	5	50	47	-	
Prawle Point ...	30.09	46	NW	2	c	30.10	+ .01	46	42	- .04	WNW	3	cm	2	56	40	-	
Jersey ...	30.07	50	W	3	b	30.07	+ .01	49	44	+ .02	NW	4	bc	3	52	44	-	
Hurst Castle ...	30.00	47	NW	4	bc	29.94	- .06	43	41	+ .02	WNW	4	c	1	54	40	-	
Dungeness ...	29.89	50	WNW	5	c	29.85	- .02	44	40	+ .02	N	5	c	3	50	39	-	
London ...	29.90	51	WNW	2	o	29.92	- .02	43	38	+ .04	WNW	3	c	*	53	35	0.02	
Oxford ...	29.90	47	NW	5	o	29.97	- .07	41	37	- .01	NW	4	o	*	53	39	0.01	
Cambridge ...	29.86	45	NW	1	r	29.89	- .03	42	38	- .04	NW	2	bc	*	54	35	0.02	
Yarmouth ...	29.76	48	WNW	5	ogp	29.80	- .04	38	37	- .03	NW	5	cq	4	50	33	0.31	
Cuxhaven ...	29.63	39	W	5	o	29.52	- .11	38	37	- .01	NW	5	S	*	42	37	0.06	
Berlin ...	29.72	42	W	2	bc	29.58	- .14	40	39	- .01	WSW	3	r	*	48	36	0.04	
Wiesbaden ...	*	*	*	*	*	29.66	- .18	42	40	- .02	SW	3	o	*	48	37	0.12	
Munich ...	29.83	44	W	2	r	29.75	- .08	37	36	- .01	SW	5	o	*	48	34	0.16	
FRANCE & NETHERLANDS.																		
The Helder ...	29.68	41	W	2	o	29.66	- .02	39	38	- .02	NW	3	c	3	45	37	0.04	
Brussels 9 A.M.	*	*	*	*	*	29.79	- .16	36	35	- .06	WNW	1	b	*	50	34	0.51	
Cape Gris Nez...	?	44	SW	4	c	?	?	39	37	- .01	WNW	5	r	5	46	39	0.04	
Paris ...	29.99	48	SSE	2	c	29.89	- .09	44	40	+ .05	NW	3	c	*	52	?	-	
Brest ...	30.20	50	N	4	o	30.21	+ .01	48	45	+ .04	N	5	o	3	54	41	-	
Lorient ...	30.13	50	N	4	b	30.17	+ .04	46	44	+ .03	NW	4	b	2	54	41	-	
Rochefort ...	30.08	52	WNW	3	b	30.17	+ .09	47	45	+ .04	WNW	4	bc	2	55	37	-	
Belfort ...	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	
Lyons ...	29.95	44	N	2	o	30.01	+ .06	37	36	- .06	WNW	1	o	*	46	36	0.35	
Nice ...	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	
Perpignan ...	29.89	50	NW	3	o	30.03	+ .14	50	43	+ .02	NW	3	b	*	55	46	-	
Biarritz ...	30.06	50	N	5	b	30.20	+ .14	50	46	+ .06	N	4	bc	3	52	?	-	
PENINSULA.																		
Corunna ...	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	
Lisbon ...	30.09	53	N	6	b	30.21	+ .12	50	43	- .02	NE	5	b	3	59	48	-	

For Explanation of Columns, see p. 4.

‡ Received too late for insertion in *Chart* on p. 2.

Tuesday, 2nd April.

188.9

(Explanation of Map)

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 shewn thus.

MEAN HEIGHT of the BAROMETER

at 3 a m. for the month of April.
During the 15 Years 1871 — 1885

A hand-drawn weather map on a grid background, showing a low-pressure system (LOW) and a high-pressure system (HIGH). The low is labeled "LOW" and "29.4" with a "8 am" time marker. The high is labeled "HIGH" and "30.1". Contour lines are drawn with values like 29.6, 29.7, 29.8, 29.9, 30.0, 30.1, 30.2, 30.3, 30.4, 30.5, 30.6, 30.7, 30.8, 30.9, 31.0. Arrows indicate wind direction and speed. A "Barometer" label is written vertically. A "rising" label is written near the low. A "falling" label is written near the high. A "6 am" time marker is also present.

Wauher 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 April.

A hand-drawn map of Europe with various handwritten annotations. The map includes latitude and longitude lines. Key handwritten notes include:

- NEARLY** (written vertically across the North Atlantic)
- have fallen** (written near the British Isles)
- SNOW** (written in the North Atlantic)
- showers** (written near the British Isles)
- RAIN** (written near the British Isles)
- AT THE** (written near the British Isles)
- WARMER** (written across the North Atlantic)
- COLDER** (written near the British Isles)

Temperature readings are scattered across the map, including:

- 34, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44, 45, 46, 47, 48, 49, 50, 51, 52, 53, 54, 55, 56, 57, 58, 59, 60, 61, 62, 63, 64, 65, 66, 67, 68, 69, 70, 71, 72, 73, 74, 75, 76, 77, 78, 79, 80, 81, 82, 83, 84, 85, 86, 87, 88, 89, 90, 91, 92, 93, 94, 95, 96, 97, 98, 99, 100

NOTE - The Temperature means are for the 15 years 1871-86, the Rainfall means are mainly those for the 20 years 1866-85

GENERAL SITUATION AT 8 A.M.

PRESSURE

Highest, 30.3 in: and upwards, in an anticyclone lying to the southward of our islands; 30.1 in: and upwards, over Lapland.
 Lowest, 29.4 in: and less, in a depression, lying off the extreme south of Norway.
 Gradients, rather steep over the northern parts of Scandinavia and Scotland, but moderate elsewhere.
 Barometer falling a little over Germany, the Netherlands and the south of Denmark, but rising elsewhere—most in the north of Scandinavia.

TEMPERATURE

Highest, 51° at Valencia, 50° at Bournemouth, Rocher Point, Selly, Biarritz, Perpignan and Lisbon, and 48° at Jersey.
 Lowest, 14° at Haparanda, 25° at Helsingfors, 30° at Stockholm, 33° at Copenhagen, 34° at Rode, and 35° at Rudersdal, Faerøer and Nisy.
 Frost was experienced last night in the north of Scotland.

WIND

NW over the whole of our islands and France; strong in force on all but our south coast, with a moderate gale in the north and east of Scotland.
 Light or moderate from the SW in Germany and Denmark, and from SE or E in Scandinavia.
 A fresh gale from NW was experienced yesterday in the north and northeast of Scotland.

WEATHER

Fine over the greater part of England and France, as well as in the north of Scandinavia.
 Cloudy elsewhere, with rain at some of the Irish stations, and snow showers in Scotland. Snow is also falling at Stockholm and Copenhagen.
 Showers of cold rain or sleet were experienced yesterday at all but our extreme southern stations.

SEA

Rough off the north and east of Scotland and rather rough on nearly all the more exposed parts of our coast.

PROBABLE CHANGES IN SYSTEM NOW PREVALENT

The depression off the south of Norway appears to be moving slowly southwards, but it is not unlikely that the system will soon begin to fill up. NW winds will probably continue over our islands for a time, with cold showers in most districts.

FORECASTS

for the 24 hours ending at NOON on 3rd April 1889.

DISTRICTS.

FORECASTS.

0	SCOTLAND NORTH	NW ⁴ or N ⁴ strong winds or gales, moderating later; squally, some snow showers.
1	SCOTLAND EAST	
2	ENGLAND N.E.	NW ⁴ winds, fresh or strong; changeable, some cold showers.
3	ENGLAND EAST	
4	MIDLAND COUNTIES	
5	ENGLAND SOUTH	

DISTRICTS.

FORECASTS.

6	SCOTLAND WEST	NW ⁴ winds, strong; changeable, some showers.
7	ENGLAND N.W.	
8	ENGLAND S.W.	NW ⁴ winds, fresh or strong; fair generally but local showers.
9	IRELAND NORTH	Same as Nos 6 and 7
10	IRELAND SOUTH	Same as No 8.

WARNINGS

The NORTH CONE is still flying in districts 0, 6, and part of 1.

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

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

YESTERDAY'S 2 P.M. REPORTS.

	Bar.	Dry.	Wet.	Wind.	Wea.	Sea.		Bar.	Dry.	Wet.	Wind.	Wea.	Sea.
Skudesnæs ...	29.40	45	40	w 2	c	3	Holyhead ...	30.01	51	46	wtw 4	bc	4
Sandness Head ...	29.43	36	35	wtw 5	os p	4	Valencia ...	30.28	54	50	rw 4	ogm	4
Stornoway ...	29.74	44	42	rw 6	c	5	Scilly ...	30.18	50	46	wtw 5	c	5
Aberdeen ...	29.61	44	39	wtw 7	bcqu	4	Jersey ...	30.10	50	45	wtw 2	c	2
Shields ...	29.70	50	45	w 3	c	2	Dungeness ...	29.92	46	44	w 4	c	3
Ardrossan ...	29.85	48	46	w 3	c	5	London ...	29.94	52	45	wtw 4	c	*
Malin Head ...	29.96	43	43	rw 6	o	5	Yarmouth ...	29.82	49	46	wtw 4	c	3
Mullaghmore ...	30.10	51	48	wtw 5	bc	4	Rocheport ...	30.07	55	49	rw 4	bc	2
Belmullet ...	30.15	52	51	wtw 6	b	*							

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

The reports for yesterday morning showed that pressure was highest, 30.2 ins: and upwards, in an anticyclone lying to the SWrd of the British Isles, but high, 30.1 ins: and upwards, over the eastern parts of the Mediterranean. The lowest reading 29.3 ins: and less, were found in a depression lying off the west of Norway, but a large area of relatively low readings, 29.8 ins: and less, existed over the southern parts of Central Russia. The wind was increasing from the Wrd and NWrd over the northern parts of the United Kingdom, but in France and Spain it was light or moderate from the NWrd. In most other parts of Europe the wind was S^{ly} (SW to SE) but in the southern parts of Austria and Russia light N^{ly} breezes were reported. The weather was fine over the greater part of Ireland and England, as well as over the Hebrides, the Gulf of Finland, ~~the~~ the west of France, the southern parts of Italy and Spain and in Algeria. Elsewhere, however, the sky was cloudy, with rain over Germany and the east of Denmark, sleet showers in the north of Scotland, and snow at Bodö, Kuopio and Skagen. Temperature had fallen a little in France, South Germany, and the northern and southern parts of the United Kingdom, but risen slightly in most other localities; reading ranged from between 55° and 60° at several of the Mediterranean stations to many degrees below the freezing point in Finland. The highest individual reading were 61° at La Balla, 59° at Cagliari, 58° at Algiers, 57° at Barcelona and Oran, 56° at Leghorn, Brindisi, and Ifoz, and 54° at Langunian and Malta; the lowest were 3 at Hango, 11° at Althausburg, 13° at Alkingsås, 15° at Kuopio, 22° at Uppsala, 23° at Haparanda, 25° at Memel, 27° at Bodö and Helsingfors, and 28° at Gascow and Kiev.

In the course of the day the depression off the west of Norway moved slowly southwards, and the wind increased to a gale from the NWrd in the north and east of Scotland. Cold showers were experienced at all but our extreme southern 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 Wednesday 3rd April. 1889.

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

STATIONS.	+ YESTERDAY EVENING.						8 A.M. TO DAY.										PAST 24 HOURS.		
	Barometer at 32° F. and Sea Level.	Temp. in Shade.	WIND.			Weather.	BAROMETER.		SHADE TEMP.			WIND.			Weather.	Sea. (0 to 9.)	SHADE TEMP.		
			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 ..	20.11	19	2	0	0		29.97	-1.2	27	27	+1.3	N	2	0			32	9	0.00
Hernösand ...	20.02	16	2	0	0		20.06	+1.9	22	20	-2	2	0	bc			36	19	—
Stockholm ...	29.80	30	E	2	0		29.84	+2.2	30	28	0	NE	4	0			34	28	0.04
Wisby ...	29.77	33	E	6	0		29.75	+1.4	33	32	-2	ESE	4	0			?	?	—
Bodo ...	29.91	30	ESE	2	0		29.96	+2.5	29	26	-5	ESE	2	0			34	25	—
Christiansund...	29.65	27	ESE	2	0		29.76	+2.1	36	33	0	ESE	2	0			43	32	—
Skudesnaes ...	29.64	27	E	1	0		29.75	+2.6	37	35	+2	E	4	0			46	34	—
Christiania Fjord (Færder)	29.63	36	NE	3	0		29.76	+2.2	31	31	-4	NNE	4	0			36	28	—
Skagen (The Scaw)	29.54	27	E	2	0		29.63	+2.2	35	35	+2	ESE	5	0			48	?	0.12
Faro ...	29.52	25	2	0	0		29.56	+1.0	35	35	-2	2	0	0			43	34	—
BRITISH ISLANDS.																			
Sumburgh Head	29.74	28	WNW	4	0		29.73	+1.5	40	39	+5	2	0	0			40	33	0.02
Stornoway ...	29.95	27	WNW	4	0		29.64	-2.2	37	36	+1	SE	5	0			38	33	0.04
Wick ...	29.85	24	WNW	4	0		29.73	-0.3	34	33	0	N	1	0			36	30	0.05
Nairn ...	29.92	25	WNW	3	0		29.72	-1.6	35	34	-1	ESE	1	0			38	31	0.03
Aberdeen...	29.84	25	WNW	7	0		29.78	-0.2	37	34	+2	W	1	0			39	32	—
Leith ...	29.90	40	NE	3	0		29.80	-0.8	37	34	-2	ESE	1	0			49	33	—
Shields ...	29.85	40	WNW	4	0		29.82	-0.2	35	33	-2	WNW	1	0			44	31	—
Spurn Head ...	29.83	39	N	6	0		29.81	-0.2	37	35	-2	WNW	5	0			47	34	0.01
York ...	29.83	40	NE	2	0		29.81	-0.3	37	34	-4	WNW	2	0			45	33	0.01
Loughborough	29.89	43	WNW	2	0		29.87	-0.5	38	36	-2	W	1	0			48	35	—
Ardrossan ...	29.92	44	NW	4	0		29.78	-1.6	37	37	-2	ESE	2	0			46	34	0.11
Malin Head ...	20.01	42	WNW	2	0		29.67	-2.8	45	45	+2	2	0	0			45	40	0.11
Malinbeg ...	20.08	49	WNW	6	0		29.70	-4.3	48	46	+1	WNW	5	0			50	45	0.02
Belmullet ...	20.14	51	NW	5	0		29.65	-5.4	49	48	-1	SW	5	0			52	47	0.06
Donaghadee ...	29.99	43	NNE	5	0		29.78	-2.4	41	41	-2	ESE	4	0			47	41	0.14
GERMANY.																			
Barrow-in-Furness	29.90	43	NW	5	0		29.84	-0.9	38	37	-2	2	0	0			46	37	—
Liverpool (Bidston)	29.92	43	WNW	6	0		29.86	-1.1	37	36	-5	ESE	1	0			45	34	0.07
Holyhead ...	29.99	44	NW	4	0		29.84	-2.0	41	41	-2	ESE	2	0			46	37	0.20
Parsonstown ...	20.13	49	W	2	0		29.82	-2.7	47	46	0	SW	1	0			52	44	0.06
Valencia ...	20.26	50	WNW	4	0		29.85	-4.6	50	49	-1	SW	5	0			54	45	0.05
Roche's Point...	20.17	51	WNW	5	0		29.87	-2.3	50	48	0	W	4	0			54	45	—
Pembroke ...	20.06	48	WNW	4	0		29.91	-1.9	46	45	0	W	5	0			49	45	—
Seilly ...	20.16	50	WNW	6	0		29.99	-1.9	49	47	-1	W	5	0			52	46	0.01
Prawle Point ...	20.02	49	WNW	5	0		29.95	-1.5	47	45	+1	WNW	5	0			52	42	—
Jersey ...	20.06	49	WNW	4	0		29.96	-1.1	49	46	0	NW	5	0			52	46	—
FRANCE & NETHERLANDS.																			
Hurst Castle ...	29.96	48	NW	5	0		29.90	-0.4	39	39	-4	N	2	0			51	39	0.11
Dungeness ...	29.88	46	N	3	0		29.85	-0.0	38	35	-6	WNW	4	0			48	34	0.01
London ...	29.88	45	NW	3	0		29.88	-0.4	39	36	-4	W	1	0			49	37	—
Oxford ...	29.93	42	NW	4	0		29.89	-0.8	34	34	-7	2	0	0			49	34	0.04
Cambridge ...	29.88	45	NW	1	0		29.85	-0.4	39	36	-3	NW	1	0			51	33	0.02
Yarmouth ...	29.84	29	NW	4	0		29.77	-0.3	38	37	0	NW	4	0			44	32	0.02
Cuxhaven ...	29.59	29	WNW	4	0		29.57	+0.5	37	36	-1	2	0	0			42	36	0.08
Berlin ...	29.62	41	WNW	4	0		29.65	+0.7	37	36	-2	W	3	0			45	34	0.04
Wiesbaden ...	*	*	*	*	*		29.72	+0.6	39	37	-2	W	2	0			45	36	0.16
Munich ...	29.73	34	W	5	0		29.71	-0.4	32	31	-5	NW	5	0			43	30	0.04
SPAIN.																			
The Helder ...	29.72	37	NW	4	0		29.64	-0.2	39	36	0	WNW	3	0			39	36	0.12
Brussels ... 9 a.m.	*	*	*	*	*		29.78	-0.1	36	34	0	W	2	0			43	33	0.24
Cape Gris Nez...	?	43	SW	2	0		?	?	37	33	-2	N	4	0			46	36	—
Paris ...	20.35	43	N	2	0		29.87	-0.2	40	38	-4	WNW	2	0			?	39	0.28
Brest ...	20.18	51	NW	6	0		20.13	-0.8	48	42	0	N	3	0			54	41	—
Lorient ...																			
Roche fort ...	20.14	50	WNW	5	0		20.08	-0.9	48	46	+1	SW	5	0			54	42	—
Belfort ...	29.80	35	W	1	0		29.75	—	36	34	—	W	1	0			38	30	0.20
Lyons ...	29.95	40	NW	4	0		29.87	-1.4	35	34	-2	5	1	0			48	33	0.28
Nice ...	29.50	54	WNW	7	0		29.63	—	46	35	—	ESE	2	0			63	37	—
Perpignan ...	20.31	54	NW	5	0		29.99	-0.4	50	45	0	NW	3	0			60	48	—
Biarritz ...	20.23	51	NW	3	0		20.17	-0.3	50	47	0	WNW	5	0			54	46	0.08
PORTUGAL.																			
Corunna ...	*	*	*	*	*														
Lisbon ...	20.20	52	N	3	0		20.17	-0.4	51	48	+1	NNE	3	0			63	48	—

WEATHER CHARTS

for 8 a.m. on

Wednesday, 3rd April

1889.

BAROMETER, WIND & SEA.

(Explanation of Map)

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

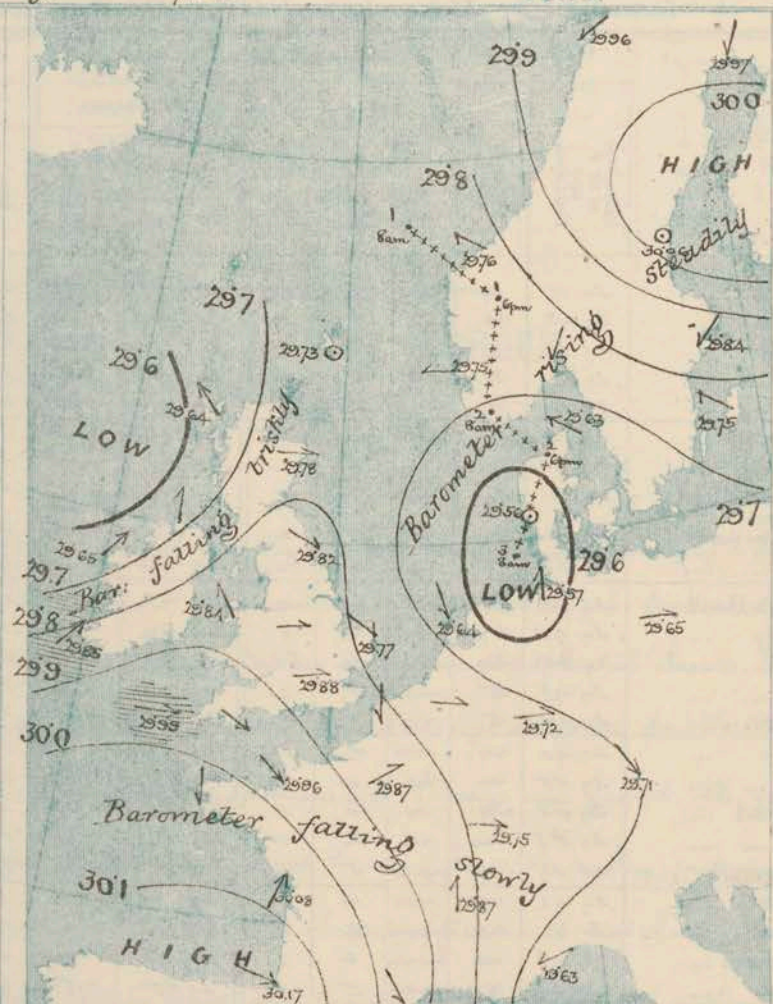
Sea Disturbance — where considerable, is shown thus.

— Rough — High.

MEAN HEIGHT of the BAROMETER

at 8 a.m. for the month of April.
 During the 16 Years 1871–1886.

STATIONS.	MEAN READINGS.
Sumburgh Head	29.849
Stornoway	29.821
Wick	29.853
Nairn	29.853
Aberdeen	29.862
Leith	29.865
Shields	29.870
York	29.877
Loughborough	29.878
Ardrossan	29.887
Donaghadee	29.853
Holyhead	29.851
Liverpool	29.864
Parsonstown	29.853
Valencia	29.835
Roche's Point	29.838
Pembroke	29.844
Scilly	29.849
Jersey	29.867
Hurst Castle	29.887
Dover	29.886
LONDON	29.877
Oxford	29.882
Cambridge	29.879
Yarmouth	29.876



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.

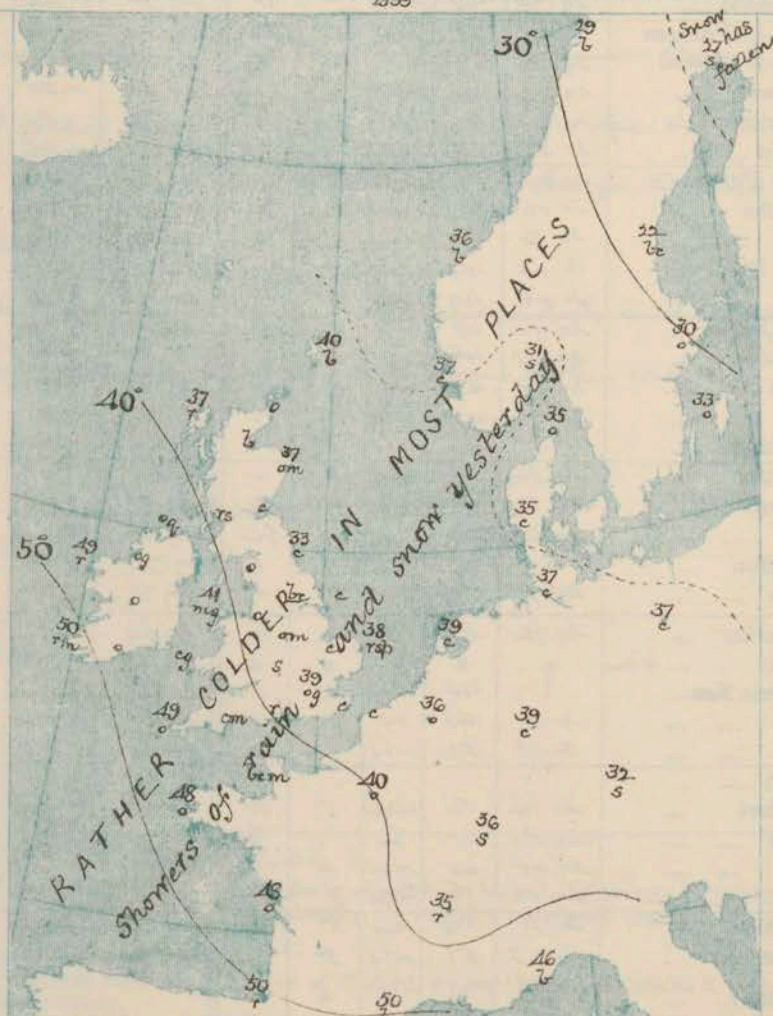
MEANS OF TEMPERATURE IN SHADE.

AND RAINFALL.

for the month of April.

STATIONS	TEMPERATURE.				RAINFALL. (Inches)
	Daily Max.	Daily Min.	at 8 a.m. Dry	at 8 a.m. Wet.	
Sumburgh Head	46.3	37.3	41.9	40.5	2.16
Stornoway	49.3	37.5	44.1	42.3	2.51
Wick	49.2	37.4	43.2	41.2	1.56
Nairn	51.5	37.9	43.1	40.6	1.23
Aberdeen	49.6	38.5	43.4	40.9	2.23
Leith	52.6	38.2	44.2	42.1	1.65
Shields	49.2	39.2	43.8	41.7	1.94
York	54.1	37.8	44.1	42.0	1.86
Loughborough	55.7	38.3	45.1	43.0	1.77
Ardrossan	52.1	39.9	44.6	43.2	2.23
Donaghadee	51.3	40.1	44.8	43.2	2.02
Holyhead	51.9	42.4	46.2	44.2	1.86
Liverpool	53.0	40.7	45.5	42.6	1.56
Parsonstown	55.0	38.3	45.7	43.0	2.15
Valencia	54.3	42.9	48.4	45.9	4.01
Roche's Point	54.2	42.4	47.0	44.9	3.43
Pembroke	50.8	42.1	45.6	43.6	2.10
Scilly	52.5	45.0	49.0	47.1	2.45
Jersey	54.6	43.6	49.0	46.4	2.04
Hurst Castle	52.3	41.4	45.9	44.6	1.87
Dover	51.5	42.4	47.1	44.5	1.81
LONDON	56.7	40.0	46.8	43.8	1.86
Oxford	55.1	39.3	45.0	42.7	1.79
Cambridge	56.2	37.7	45.5	43.3	1.76
Yarmouth	49.5	40.4	45.1	43.4	1.80

NOTE — The Temperature means are for the 16 years 1871–86, the Rainfall means are mainly those for the 20 years 1866–85.



GENERAL SITUATION AT 8 A.M.

PRESSURE

Highest, 30.1 in: and upwards, over the Iberian Peninsula, the southwest of France, and the southern part of the Bay of Biscay; 30.0 in: and upwards, lowest, 29.6 in: and less, in two depressions lying respectively off the west coast of Ireland and the southwest of Denmark. Barometer moderate or slight generally, but increasing on our western coasts. Barometer falling at all but the Scandinavian and Danish stations—quickly, in the west and south of the British Isles.

TEMPERATURE

Highest, 51° at Dublin, 50° at Valencia, Rocherpoint, Biarritz and Perpignan, and 48° at Belmullet, Lough and Jersey. Lowest, 21° at Helsingfors, 27° at Haparanda, 28° at Rode, 30° at Stockholm, 31° at Vaerder, 32° at Munich, and 33° at Metz. Frost occurred last night in Scotland and the north of England.

WIND

Trick from S.W. or S. in Ireland; light or moderate from the S.E. over the greater part of Scotland. Moderate or fresh from the N.W. over the east and south of England and the west of France. Light from W. over Germany and the east of France; moderate from the E. in Scandinavia.

WEATHER

Fine in the north of Scandinavia and the south of France; fair over North Germany and the east of Great Britain. Cloudy elsewhere with rain in Ireland and the west of Scotland, and snow or sleet at some of the English stations, as well as at Haparanda, Munich and Belfast. Cold showers fell yesterday in many parts of Great Britain.

SEA

Rough at Valencia and rather rough at Lough, but moderate to smooth elsewhere.

PROBABLE CHANGES IN SYSTEM NOW PREVALENT

The depression which is approaching our northwest coast will probably occasion a considerable increase of wind in the west and northwest generally. Its centre seems likely to move eastwards or southwards but as pressure is still high over Northern Europe its advance will probably be rather slow.

FORECASTS

for the 24 hours ending at NOON on 4th APRIL 1889.

DISTRICTS.

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

FORECASTS.

SE^{ly} and S^{ly} winds, freshening; unsettled, some rain or sleet.
Wind backing to the S^{ly} and freshening; fair to unsettled and some rain.
W^{ly} to SW^{ly} winds, increasing in force; cloudy, unsettled, some rain.

DISTRICTS.

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

FORECASTS.

SE^{ly} and S^{ly} winds, veering to the W^{ly} and increasing in force; unsettled, some rain.
SW^{ly} to W^{ly} or NW^{ly} winds, increasing in force; unsettled, some rain.

WARNINGS

NONE ISSUED AT PRESENT.

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

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

YESTERDAY'S 2 P.M. REPORTS.

	Bar.	Dry.	Wet.	Wind.	Wea.	Sea.		Bar.	Dry.	Wet.	Wind.	Wea.	Sea.
Skudesnaes ...	29.51	46	39	E 2	C	4	Holyhead ...	30.03	45	43	NW 3	099	5
Sumburgh Head ...	29.66	37	36	NNW 6	O	6	Valencia ...	30.30	54	50	NNW 4	099	4
Stornoway ...	29.97	28	26	NW 4	O	4	Scilly ...	30.18	51	49	NW 6	O	5
Aberdeen ...	29.82	36	33	NW 7	cspg	6	Jersey ...	30.01	51	45	NNW 4	cm	3
Shields ...	29.85	44	37	NNW 3	C	3	Dungeness ...	29.91	47	39	N 4	bc	2
Ardrossan ...	29.92	45	43	NW 5	C	4	London ...	29.92	49	39	NW 4	C	*
Malin Head ...	30.05	42	42	NW 3	or	3	Yarmouth ...	29.83	42	38			4
Mullaghmore ...	30.11	50	49	NNW 5	ogp	4	Rocheport ...	30.18	53	48	NW 5	C	2
Belmullet ...	30.19	52	50	NNW 5	bc	*							

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

The distribution of pressure over Europe yesterday was very irregular. The barometer remained highest, 30.3 ins: and upwards, over Asia Minor, but a new area, with readings of a similar height to those in the eastern anticyclone had appeared over Finland and Lapland where the mercury was rising briskly. The lowest pressures 29.4 ins: and less, were found in a depression which had travelled from the west of Norway to the extreme south of that country, but readings were low, 29.7 ins: and less, in another disturbance lying over the Gulf of Genoa, and also low, 29.8 ins: and less, in an area lying over Central Russia. The wind was NW¹/₂ over our Islands and France, and strong to gale in force in the north of Scotland, but in Spain and Western Algeria it drew into the NE¹/₂. Over Central Europe light SW¹/₂ or W¹/₂ breezes were reported, and over Scandinavia and the Baltic moderate SE¹/₂ breezes, while in Italy the wind was chiefly S¹/₂. The weather was fine over France, Spain and the greater part of England, as well as in Finland and the north of Scandinavia, but cloudy or overcast elsewhere, with rain in the north of Ireland and many parts of Central Europe, snow at Stockholm, Cuxhaven and Lemberg, as well as at some of the Scotch stations, and a thunderstorm at Rome. Temperatures had fallen over the greater part of northern and central Europe, as well as in Algeria, Northern Italy and the south of France, but risen in most other regions; readings ranged from a little above 55° at some of Mediterranean stations to several degrees below the freezing point over Lapland and Finland. The highest individual readings were 59° at Madrid and Malta, 58° at Brindisi, 57° at Oren and Lafora, 56° at Nemours and Algiers, and 55° at Barcelona, Legna and Palermo; the lowest were 6° at Kuopio, 13° at Riksborg, 14° at Haparanda, 15° at Helsingfors, 16° at Uleaborg, 20° at Hango, 22° at Kharkov, 24° at Riga, 25° at Helsingfors, and 26° at Kiev.

In the course of the day the depression off the south of Norway moved slowly southwards and partially filled up. The strong NW¹/₂ winds in the north of our Islands therefore, moderated in force. Towards night the barometer began to fall a little on our west and southwest 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 4th April 1889.

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

STATIONS.	+ YESTERDAY EVENING.						8 A.M. TO DAY.										PAST 24 HOURS.		
	Barometer at 32° F. and Sea Level.	Temp. in Shade.	WIND.		Weather.		BAROMETER.		SHADE TEMP.			WIND.		Weather.	Sea (0 to 9.)		SHADE TEMP.		Amount of Rainfall.
			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 ..	20.01	32	Y	0	0		20.11	+14	28	28	+1	X	0	0	*		29	18	—
Hernösand ...	20.05	23	Y	0	0		20.05	-01	20	28	+8	NE	2	0	*		29	16	—
Stockholm ...	29.79	36	NE	6	5		29.77	-07	31	30	+1	E	2	0	*		34	25	0.28
Wisby ...	29.66	35	NNE	4	0		29.69	-06	35	34	+2	ENE	4	5	*		?	?	0.43
Bodö ...	20.00	26	ENE	1	0		20.23	+23	30	27	+1	ENE	2	0	1		32	25	—
Christiansund ...	29.79	36	Y	0	0		29.75	-01	37	31	+1	ENE	4	0	2		43	30	—
Skudesnaes ...	29.76	38	SE	4	0		29.67	-08	36	32	-1	E	4	0	3		?	34	—
Christiania Fjord (Farder)	29.80	34	NNE	5	0		29.69	-07	31	30	0	ENE	5	0	1		34	30	—
Skagen (The Scaw)	29.70	32	E	3	0		29.66	+03	33	31	-2	X	0	0	0		36	32	0.08
Fanö ...	29.62	36	NE	4	0		29.61	+05	35	35	0	SE	2	0	*		43	34	—
BRITISH ISLANDS.																			
Samburgh Head	29.56	40	SE	3	0		29.58	-15	38	37	-2	ENE	5	0	6		45	33	—
Stornoway ...	29.28	41	S	6	0		29.29	-35	41	40	+4	SE	4	0	4		41	35	0.35
Wick ...	29.43	37	S	6	0		29.41	-32	40	38	+6	S	8	0	7		41	32	0.25
Nairn ...	29.38	36	Y	0	0		29.32	-40	40	39	+5	ENE	1	0	1		40	34	0.22
Aberdeen ...	29.53	37	SE	5	0		29.40	-38	38	36	+1	ENE	7	0	6		41	36	0.35
Leith ...	29.44	37	SE	2	0		29.21	-39	40	39	+3	E	4	0	2		43	35	0.39
Shields ...	29.54	37	SE	4	0		29.19	-63	40	40	+5	ENE	4	0	4		42	34	0.15
Spurn Head ...	29.62	40	S	3	0		29.19	-62	42	41	+5	SEW	3	0	3		44	30	0.05
York ...	29.59	38	SE	1	0		29.18	-63	42	42	+5	SE	1	0	*		45	36	0.19
Loughborough	29.62	40	SE	2	0		29.19	-68	42	41	+5	SEW	2	0	*		46	38	0.18
Ardrossan ...	29.38	40	E	4	0		29.18	-60	36	36	-1	NE	2	0	1		40	35	0.45
Malin Head ...	29.26	46	ENE	1	0		29.21	-46	38	38	-7	N	4	0	3		50	37	0.53
Mullaghmore ...	29.26	47	SEW	5	0		29.25	-45	44	42	-4	NW	6	0	5		52	40	0.62
Belmullet ...	29.17	46	NW	5	0		29.30	-38	44	43	-5	NW	6	0	*		51	43	0.33
Donaghadee ...	29.26	47	W	3	0		29.14	-64	42	42	+1	E	5	0	3		47	40	0.05
Barrow-in-Furness	29.47	40	ENE	5	0		29.12	-72	42	40	+4	SE	4	0	*		43	37	0.49
Liverpool (Bidston)	29.51	42	SE	3	0		29.10	-76	40	39	+3	SE	3	0	3		44	37	0.25
Holyhead ...	29.47	45	SEW	4	0		29.05	-79	45	44	+4	NW	1	0	2		47	40	0.38
Parsonstown ...	29.43	47	W	3	0		29.29	-53	42	40	-5	NW	3	0	*		54	40	0.30
Valencia ...	29.59	49	W	6	0		29.46	-39	44	42	-6	NW	5	0	5		53	41	0.14
Roche's Point...	29.54	52	W	5	0		29.33	-54	46	42	-4	NW	6	0	6		54	42	0.02
Pembroke ...	29.56	47	W	5	0		29.16	-75	44	42	-2	NW	7	0	6		48	41	0.24
Scilly ...	29.69	49	W	6	0		29.35	-64	47	44	-2	NW	7	0	6		52	40	0.13
Prawle Point ...	29.66	46	W	5	0		29.29	-66	41	40	-6	NW	5	0	5		49	39	0.14
Jersey ...	29.77	49	W	5	0		29.40	-56	46	42	-3	W	6	0	5		53	43	0.19
Hurst Castle ...	29.69	45	W	6	0		29.29	-61	45	43	+6	W	5	0	4		46	39	0.13
Dungeness ...	29.71	40	W	5	0		29.32	-53	44	44	+6	W	5	0	4		48	38	0.10
London ...	29.70	39	W	3	0		29.27	-61	47	43	+8	SEW	2	0	*		47	38	0.15
Oxford ...	29.57	41	W	2	0		29.23	-66	44	41	+10	S	1	0	*		46	34	0.19
Cambridge ...	29.66	38	S	1	0		29.24	-61	47	45	+8	S	1	0	*		48	36	0.16
Yarmouth ...	29.71	40	SE	3	0		29.29	-44	43	42	+5	S	2	0	4		43	36	0.04
Cuxhaven ...	29.72	39	NNE	2	0		29.63	+06	36	35	-1	S	2	0	*		40	35	0.14
Berlin ...	29.71	40	Y	0	0		29.68	+03	37	36	0	X	0	0	*		43	32	—
Wiesbaden ...	*	*	*	*	*		29.63	-09	37	35	-2	W	2	0	*		43	34	—
Munich ...	29.78	32	W	4	0		29.74	+03	34	31	+2	SEW	4	0	*		37	30	0.04
FRANCE & NETHERLANDS.																			
The Helder ...	29.70	38	W	1	0		29.45	-19	38	37	-1	SE	2	0	3		41	34	—
Brussels ... 9 a.m.	*	*	*	*	*		29.46	-32	41	40	+5	S	4	0	*		43	?	0.16
Cape Gris Nez...	?	38	W	4	0		?	?	44	42	+7	W	4	0	4		?	36	0.20
Paris ...	29.85	39	SEW	1	0		29.53	-34	44	42	+4	SEW	3	0	*		?	39	0.24
Brest ...	29.92	51	W	6	0		29.94	-19	44	?	-4	NW	7	0	5		54	41	0.12
Lorient ...	29.91	49	W	5	0		29.53	-40	48	44	0	NW	6	0	4		52	45	0.20
Rochefort ...	30.02	53	NW	5	0		29.63	-40	48	44	0	NW	5	0	3		53	41	0.20
Belfort ...	*	*	*	*	*		*	*	*	*	*	*	*	*	*		*	*	*
Lyons ...	29.97	35	NW	1	0		29.80	-07	35	35	0	SE	1	0	*		38	23	0.43
Nice ...	29.57	?	S	3	0		29.72	+09	43	37	-3	SE	2	0	*		63	39	—
Perpignan ...	29.93	54	NW	4	0		29.85	-14	47	42	-3	W	2	0	*		59	43	—
Biarritz ...	30.10	49	NW	4	0		29.82	-35	50	46	0	NW	4	0	3		54	46	0.08
PENINSULAR.																			
Corunna ...	*	*	*	*	*		*	*	*	*	*	*	*	*	*		*	*	*
Lisbon ...	30.10	52	NW	6	0		30.09	-01	53	48	+2	NW	2	0	3		64	48	—

For Explanation of Columns, see p. 4.

‡ Received too late for insertion in *Charis* on p. 2.

WEATHER

for 8 a.m. on

CHARTS

Thursday, 4th April,

1889.

BAROMETER, WIND & 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;
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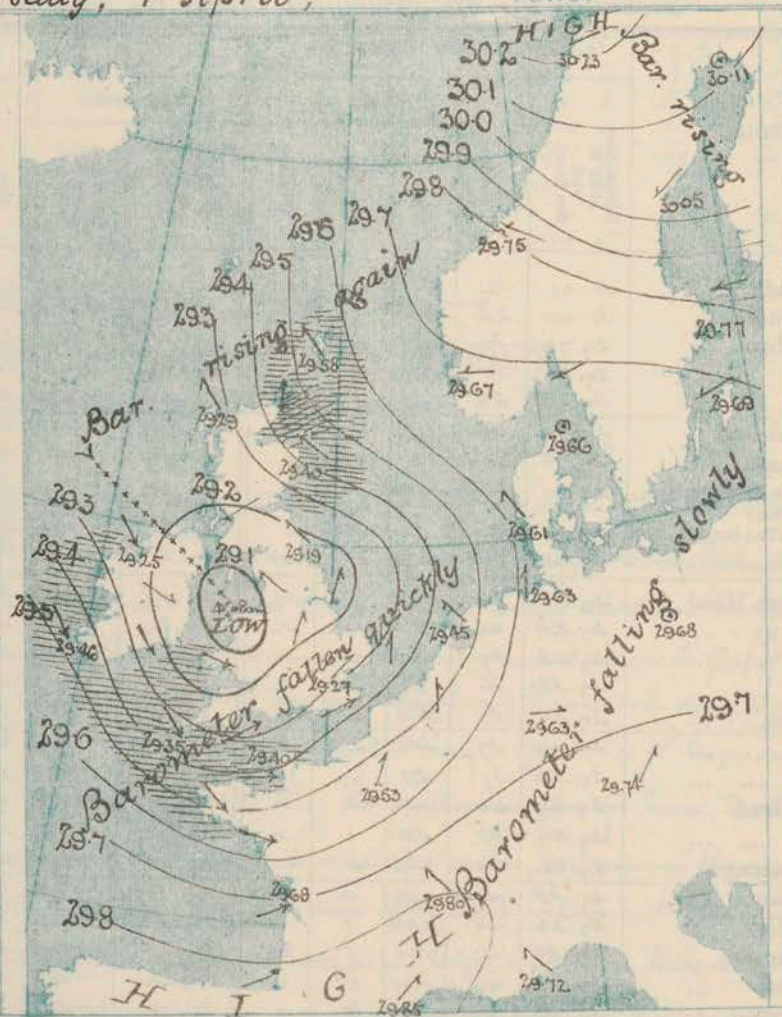
— Rough — High

MEAN HEIGHT of the BAROMETER

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

During the 15 Years 1871-1885.

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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.

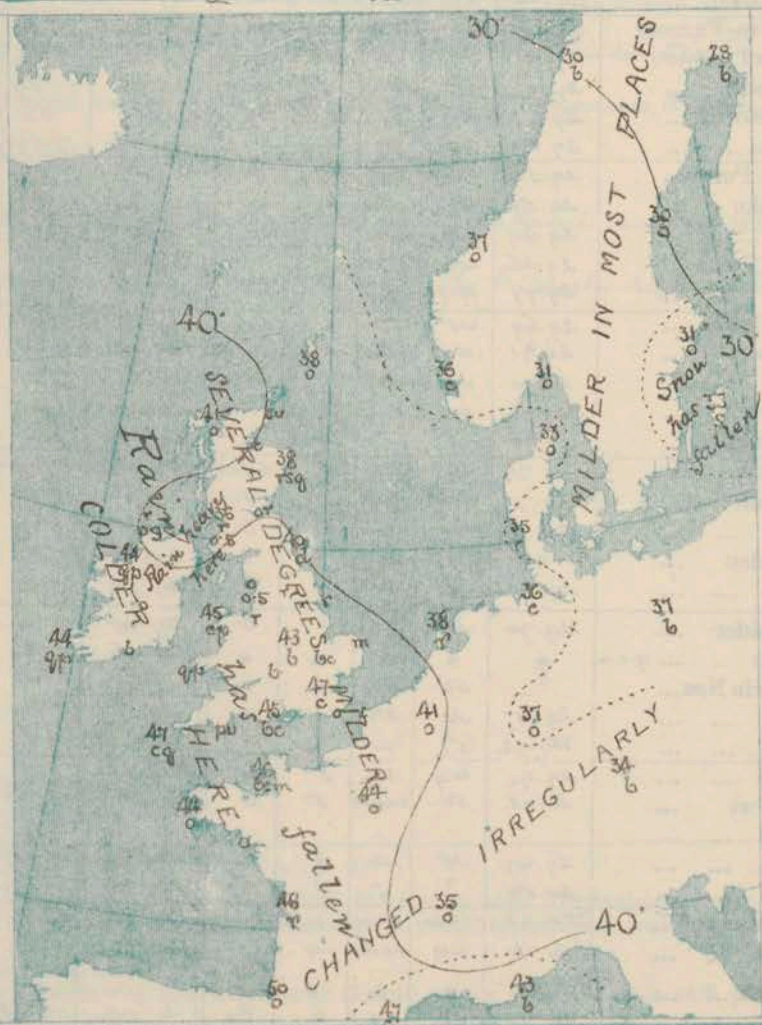
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AND RAINFALL.

for the month of April.

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	Daily Max.	Daily Min.	at 8 a.m. Dry	Wet	
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Roche's Point	54.2	42.4	47.0	44.9	3.43
Pembroke	50.8	42.1	45.6	43.8	2.10
Scilly	52.5	45.0	49.0	47.1	2.45
Jersey	54.6	48.6	49.0	46.4	2.04
Hurst Castle	52.3	41.4	45.9	44.6	1.87
Dover	51.5	42.4	47.1	44.5	1.81
LONDON	56.7	40.0	46.8	43.8	1.86
Oxford	55.1	39.3	45.0	42.7	1.79
Cambridge	56.2	37.7	45.5	43.3	1.76
Yarmouth	49.5	40.4	45.1	43.4	1.80

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



GENERAL SITUATION AT 8 A.M.

PRESSURE

Highest, 30.2 ins. and upwards, in the extreme north of Norway; 30.0 ins. and upwards in Portugal.
 Lowest, 29.1 ins. and less, in a depression lying over North Wales and the Irish Sea.
 Gradient slight over the central parts of our Islands, but rather steep elsewhere.
 Barometer rising in Ireland and Scotland, and also in the north of Scandinavia, but falling elsewhere.

TEMPERATURE

Highest, 53° at Lisbon, 50° at Biarritz, 48° at Rochefort and Giverny, and 47° at Bielefeld, Cambridge, London, and Rapperswil.
 Lowest, 28° at Haparanda, 30° at Rode and Helsingfors, 31° at Stockholm and Gothenburg, 33° at Riga, and 34° at Munich.

WIND

Strong from the NWth over the coast and south of Ireland and southwest of England; fresh from the NWth over the Channel and France.
 Moderate from the SEth in the east of England, strong to a gale from SE. and S in Scotland.
 Moderate from the Eth in Scandinavia.

WEATHER

Rainy over the northern parts of Ireland and England and the south of Scotland.
 Cloudy at many of the continental stations, but fine in Germany, and the north of Scandinavia.
 Since yesterday morning 0.5 in. of rain has fallen at Ardrossan, 0.6 in. at Mullaghmore, and 0.3 in. at Dublin Head.

SEA

High at Ulster and rough or rather so on our coast generally, western and northern coasts generally, but moderate in the east and southeast.

PROBABLE CHANGES IN SYSTEM NOW PREVALENT

As the depression over the Irish Sea moves southeastwards a further increase of wind will probably take place on our coast, especially in the west, north and northeast. Unsettled showery weather is likely to continue for a time in most districts.

FORECASTS

for the 24 hours ending at NOON on 5th APRIL 1889.

DISTRICTS.

FORECASTS.

1	SCOTLAND NORTH	SE th and E th to NE th strong winds and gales; squally, some sleet showers.
2	SCOTLAND EAST	
3	ENGLAND N.E.	SE th to E th winds, increasing in force; squally, some rain or sleet.
4	ENGLAND EAST	
5	MIDLAND COUNTIES	SW th winds, shifting to the N th or NE th and increasing in force, unsettled, rain at times.
6	ENGLAND SOUTH	

DISTRICTS.

FORECASTS.

6	SCOTLAND WEST	E th and NE th winds, increasing in force; squally, some cold showers.
7	ENGLAND N.W.	
8	ENGLAND S.W.	
9	IRELAND NORTH	NW th to N th strong winds and gales; squally, showery.
10	IRELAND SOUTH	
WARNINGS		The NORTH CONE was hoisted last evening on all coasts.

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

YESTERDAY'S 2 P.M. REPORTS.

	Bar.	Dry.	Wet.	Wind.	Wca.	Sea.		Bar.	Dry.	Wet.	Wind.	Wca.	Sea.
Skudesnaes ...	29.76	45	28	ESE 4	0	3	Holyhead ...	29.64	46	45	SW 4	2 m	4
Sumburgh Head ...	29.64	41	29	SE 2	C	2	Valencia ...	29.69	54	50	WSW 5	chg	5
Stornoway ...	29.40	40	40	S 5	2	5	Scilly ...	29.82	51	50	SW 5	2	5
Aberdeen ...	29.63	37	28	SE 4	0	2	Jersey ...	29.90	51	46	W 5	chg	4
Shields ...	29.69	40	37	ESE 2	0	2	Dungeness ...	29.80	45	41	NW 5	C	2
Ardrossan ...	29.56	39	39	E 4	2	2	London ...	29.80	45	41	WSW 2	0	*
Malin Head ...	29.42	49	48	SW 4	Cp	3	Yarmouth ...	29.75	42	41	N 2	bc	4
Mullaghmore ...	29.49	50	48	WSW 5	C	2	Rocheport ...	29.58	51	46	NW 5	0	2
Belmullet ...	29.47	51	49	SW 4	0	*							

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

The reports for yesterday morning showed that the distribution of pressure over Europe was still very irregular. The highest readings, 30.2 ins. and upwards, were reported over Spain, but a large area, with readings above 30.0 ins. existed over Central and Northern Russia and a smaller area, with similar readings, over Finland and the southern parts of the Gulf of Bothnia. The lowest readings, 29.3 ins. and less, were found in a depression lying over Serbia and Bosnia, but a small disturbance with readings below 29.5 ins. existed over Poland, while depressions with readings below 29.5 ins. were shown respectively off the west of Scotland and the southwest of Denmark. The wind varied greatly in different localities. In Ireland it was moderate from SW. or S. and in Scotland light from SE., while over Northern Europe it was chiefly E. Over the south of our Islands, however, and in France, it was moderate from the NW., while in Northern Italy, the extreme south of France and the western part of the Mediterranean it was strong to a gale from the same quarter. The weather was fine in the north of Scandinavia, the east of Great Britain, and the greater part of Southern Europe, but cloudy or overcast elsewhere, with rain in the extreme northwest of our Islands, and snow at Stavanger and Trondheim, as well as in some of the central districts of England and Germany. Temperature had risen rapidly over Finland and to a less extent over Russia generally, but fallen elsewhere—quickly in Algeria; readings ranged from between 50° and 60° at several of the Spanish and Mediterranean stations to a few degrees below the freezing point over Scandinavia and the Gulf of Finland. The highest individual readings were 59° at Brindisi, 58° at Cagliari, 57° at Oporto, 56° at San Fernando, 56° at Malta and Sfax, 54° at Messina, 53° at Palermo, and 52° at Bilbao and Barcelona; the lowest were 22° at Helsingfors, 24° at Stockholm, 25° at Hangö and St. Petersburg, 27° at Stavanger, 29° at Rode, 30° at Stockholm, 31° at Trondheim, and 32° at Copenhagen and Munich.

In the course of the day the barometer fell with great rapidity in the west and north of our Islands, and during the night a deep depression advanced from the NW. across the north of Ireland. The wind therefore increased considerably from S and SE. on our northern coasts and from W. and NW. in the southwest, with heavy falls of rain in some of the northern districts.

EXPLANATION OF COLUMNS GIVEN ON PAGE 1.

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

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

† The evening observations are taken at 6 p.m. in France and our Islands with the exception of Oxford, where they are taken at 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 *Friday, 5th April, 1889.*
 Issued by the Meteorological Office 63 Victoria Street, London. R. H. SCOTT, Secretary.

STATIONS.	† YESTERDAY EVENING.					8 A.M. TO DAY.										PAST 24 HOURS.		
	Barometer at 32° F. and Sea Level.	Temp. in Shade.	WIND.		Weather.	BAROMETER.		SHADE TEMP.			WIND.		Weather.	Sea. (0 to 9.)	SHADE TEMP.			
			Dir.	Force. (0 to 12.)		Reading at 32° F. and Sea Level.	Difference from 8 a.m. yesterday.	Dry.	Wet.	Difference from 8 a.m. yesterday.	Dir.	Force. (0 to 12.)			Max.	Min.	Amount of Rainfall.	
SCANDINAVIA.	Haparanda ..	30.13	32	2	0	b	30.18	+0.04	24	23	-1	NE	2	bc	*	43	?	-
	Hernösa: 1 ...	30.07	30	2	0	b	30.13	+0.08	26	25	-1	SE	0	b	*	36	14	-
	Stockholm ...	29.91	31	ESE	2	bc	29.93	+0.16	35	32	+3	ESE	2	bc	*	39	24	-
	Wisby ...	29.79	35	E	4	b	29.82	+0.13	37	35	+2	ESE	6	bc	*	?	32	0.04
	Bodö ...	30.03	33	ESE	4	b	30.04	-0.19	39	35	+4	E	4	bc	2	54	25	-
	Christiansund...	29.75	39	NE	1	c	29.90	+0.15	36	33	-3	ESE	2	b	2	39	30	-
	Skudesnaes ...	29.79	34	E	2	b	29.89	+0.12	37	32	+5	ESE	4	b	3	43	34	-
	Christiania Fjord (Færdø)	29.82	35	NNE	2	0	29.88	+0.19	34	34	+0	NE	5	r	1	?	?	-
	Skagen (The Scaw)	29.78	34	ESE	2	b	29.77	+0.11	35	33	+2	NE	4	0	3	41	32	-
	Fanø ...	29.73	35	NNE	4	bc	29.71	+0.10	30	30	-0	NE	4	0	*	45	30	-
	Sumburgh Head	29.71	49	ESE	1	c	29.81	+0.23	40	37	+3	SE	0	C	4	42	31	-
	Stornoway ...	29.57	41	SE	6	0	29.69	+0.40	39	39	-0	SE	6	r	5	43	35	0.05
	Wick ...	29.64	38	SE	6	0	29.74	+0.33	40	39	-0	SE	5	0	5	42	36	0.07
	Nairn ...	29.58	43	E	2	c	29.69	+0.37	38	38	-0	ESE	2	0	2	44	35	0.01
	Aberdeen...	29.59	39	E	6	cgy	29.71	+0.31	40	39	+1	E	5	ogp	6	42	38	0.10
	Leith ...	29.47	39	E	4	r	29.58	+0.37	40	39	-0	E	5	or	*	41	37	0.13
	Shields ...	29.35	41	E	5	op	29.52	+0.33	42	41	+1	E	3	0	5	42	37	0.23
	Spurn Head ...	29.23	43	E	6	c	29.45	+0.26	42	41	-0	ESE	4	0	4	47	40	0.01
	York ...	29.24	45	ESE	2	bc	29.46	+0.28	44	42	+2	E	1	0	*	52	40	0.05
	Loughborough	29.19	44	ESE	1	c	29.42	+0.23	43	42	-0	E	3	om	*	49	40	0.27
	Ardrossan ...	29.42	41	ESE	3	0	29.54	+0.36	42	41	+1	NE	4	cm	2	43	35	0.02
	Malin Head ...	29.45	42	E	5	0	29.57	+0.36	41	39	+2	ESE	4	0	3	43	38	-
	Mullaghmore ...	29.44	45	NNE	6	ogm	29.57	+0.32	42	39	-3	ESE	4	0	3	47	42	0.03
	Belmullet ...	29.49	47	NE	5	0	29.57	+0.27	44	43	-0	E	2	bc	*	50	40	0.02
	Donaghadee ...	29.36	44	NE	5	c	29.53	+0.39	43	41	+2	NNE	5	0	3	45	41	0.17
	Barrow-in-Furness	29.26	44	NE	3	bc	29.45	+0.33	41	40	-1	N	2	bcp	*	49	39	0.12
	Liverpool (Bidston)	29.23	42	NE	3	r	29.45	+0.35	41	40	+1	NE	1	0	2	46	38	0.20
	Holyhead ...	29.26	43	NNE	4	bc	29.45	+0.40	42	41	-1	NE	2	egm	2	45	41	0.03
	Parsonstown ...	29.40	44	NW	3	0	29.55	+0.26	41	39	-2	NW	1	0	*	51	40	-
	Valencia ...	29.47	48	N	4	bc	29.56	+0.10	47	44	+3	NE	1	bm	2	50	44	0.33
	Roche's Point...	29.37	49	NW	5	b	29.53	+0.20	43	40	-3	NNE	3	0	4	50	42	0.04
	Pembroke ...	29.27	43	N	6	c	29.43	+0.27	44	43	-0	NW	5	bcp	4	46	41	0.05
	Scilly ...	29.35	47	WNW	8	c	29.47	+0.12	46	43	-3	NW	6	0	6	50	43	0.01
	Prawle Point ...	29.30	45	W	6	b	29.39	+0.10	47	45	+2	NW	2	bcn	2	50	37	0.34
	Jersey ...	29.37	50	W	4	bc	29.41	+0.01	49	44	+5	WNW	4	cpqm	3	51	41	0.13
	Hurst Castle ...	29.26	45	WNW	5	cq	29.38	+0.09	45	44	-0	WSW	3	om	2	49	41	0.05
	Dungeness ...	29.26	44	SW	5	c	29.42	+0.10	47	45	+2	WSW	3	c	2	49	42	0.01
	London ...	29.21	49	S	2	c	29.41	+0.14	43	41	-2	SSE	1	og	*	55	40	0.02
	Oxford ...	29.23	42	SW	1	c	29.41	+0.18	42	41	-1	E	1	0	*	47	40	0.21
	Cambridge ...	29.21	45	S	1	c	29.44	+0.20	43	42	-1	E	1	b	*	54	35	0.05
	Yarmouth ...	29.27	43	SSE	5	cq	29.44	+0.15	42	41	-1	ESE	2	c	3	44	39	-
	Cuxhaven ...	29.58	40	ESE	4	b	29.64	+0.01	37	35	+2	E	4	b	*	42	36	-
	Berlin ...	29.67	?	E	3	b	29.58	-0.10	36	35	-1	NW	3	0	*	46	32	-
	Wiesbaden ...	*	*	*	*	*	29.51	-0.12	44	42	+2	SE	0	0	*	45	41	0.04
	Munich ...	29.60	36	W	1	c	?	?	35	34	+1	SE	3	c	*	43	27	-
	The Helder ...	29.43	43	ESE	2	r	29.50	+0.05	40	38	+2	E	2	c	3	45	37	0.28
	Brussels 9.A.M.	*	*	*	*	*	29.47	+0.01	43	42	+1	SSW	1	r	*	48	41	0.04
	Cape Gris Nez...	?	46	SW	4	bc	?	?	42	41	-1	S	3	c	2	50	41	-
	Paris ...	29.39	49	SSW	2	b	29.50	-0.03	36	36	-0	SSW	1	0	*	52	36	0.28
	Brest ...	29.45	45	NW	7	r	29.58	?	44	42	-2	NW	2	0	5	54	39	0.32
	Lorient ...	29.47	49	WNW	5	c	29.45	-0.08	44	42	-2	NW	4	b	4	50	43	0.12
	Rouen ...	29.58	49	WNW	5	c	29.52	-0.16	44	43	-1	SW	4	r	2	52	37	0.43
	Belfort ...	29.54	40	W	1	0	29.54	-0.14	39	39	+0	SSE	1	c	*	50	38	0.16
	Lyons ...	29.56	44	S	3	r	29.57	-0.23	39	39	+0	WNW	1	0	*	52	?	0.16
	Nice ...	29.60	49	W	0	c	29.46	-0.26	47	43	+4	E	6	0	4	57	?	-
	Perpignan ...	29.62	?	W	0	0	29.57	-0.28	46	41	-5	NW	3	0	*	63	45	0.12
	Biarritz ...	29.69	50	WNW	5	r	29.66	-0.16	45	43	-2	W	8	trq	7	50	44	0.75
	Corunna ...	*	*	*	*	*	29.92	0.00	53	48	-5	WNW	6	bc	6	54	43	0.04
	Lisbon ...	30.08	51	WNW	5	b	30.10	+0.01	53	50	-3	NW	4	c	8	57	50	0.04

For Explanation of Columns, see p. 4.

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

WEATHER CHARTS

for 8 a.m. on FRIDAY, 5TH APRIL.

1889.

BAROMETER, WIND & SEA.

(Explanation of Map)

Barometer — Isobars are drawn for each tenth of an inch. Changes since previous morning are stated in words.
Wind — Arrows show the prevalent winds. They fly with the wind and their barbs and feathers refer to force, thus —

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

Sea Disturbance — where considerable, is shown thus.

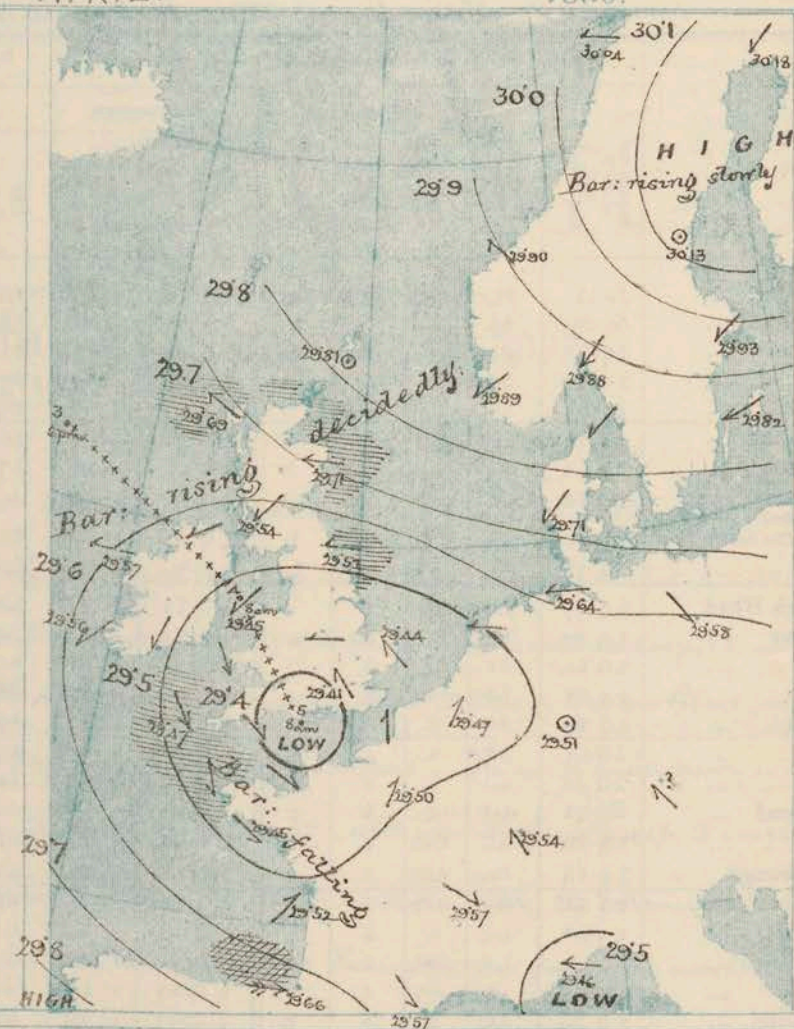
— Rough — High.

MEAN HEIGHT of the BAROMETER

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

During the 15 Years 1871—1885.

STATIONS.	MEAN READINGS.
Sumburgh Head	29.849
Stornoway	29.821
Wick	29.853
Nairn	29.853
Aberdeen	29.862
Leith	29.865
Shields	29.870
York	29.877
Loughborough	29.878
Ardrossan	29.887
Donaghadee	29.853
Holyhead	29.851
Liverpool	29.864
Parsonstown	29.853
Valencia	29.835
Roche's Point	29.838
Pembroke	29.844
Scilly	29.849
Jersey	29.867
Hurst Castle	29.867
Dover	29.866
LONDON	29.877
Oxford	29.882
Cambridge	29.879
Yarmouth	29.876



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 April.

STATIONS.	TEMPERATURE.				RAINFALL. (Inches)
	Daily Max.	Daily Min.	at 8 a.m. Dry	Wet	
Sumburgh Head	46.3	37.3	41.9	40.5	2.16
Stornoway	49.3	37.5	44.1	42.3	2.51
Wick	49.2	37.4	43.2	41.2	1.56
Nairn	51.5	37.0	43.1	40.6	1.23
Aberdeen	49.6	38.5	43.4	40.9	2.23
Leith	52.6	38.2	44.2	42.1	1.65
Shields	49.2	39.2	43.8	41.7	1.94
York	54.1	37.8	44.1	42.0	1.86
Loughborough	55.7	38.3	45.1	42.6	1.77
Ardrossan	52.1	39.9	44.6	42.2	2.23
Donaghadee	51.3	40.1	44.8	43.2	2.02
Holyhead	51.9	42.4	46.2	44.2	1.66
Liverpool	53.0	40.7	45.5	42.6	1.56
Parsonstown	55.0	38.3	45.7	43.0	2.15
Valencia	54.3	42.9	45.4	45.9	4.01
Roche's Point	54.2	42.4	47.0	44.9	3.43
Pembroke	50.8	42.1	45.6	43.6	2.10
Scilly	52.5	45.0	49.0	47.1	2.45
Jersey	54.6	43.6	49.0	46.4	2.04
Hurst Castle	52.3	41.4	45.9	44.6	1.87
Dover	51.5	42.4	47.1	44.5	1.81
LONDON	56.7	40.0	46.8	43.8	1.86
Oxford	55.1	39.8	45.0	42.7	1.79
Cambridge	56.2	37.7	45.5	43.3	1.76
Yarmouth	49.5	40.4	45.1	43.4	1.80

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



GENERAL SITUATION AT 8 A.M.

PRESSURE

Highest, 30.1 in: and more, in the southwest of Spain and also in the north of Sweden.
 Lowest, 29.4 in: and less, in a depression, which lies over the south of England (Centre near Plymouth).
 Gradient, moderate to slight.
 Barometer falling over the Bay of Biscay, rising over our Islands, the North Sea, Baltic, and Scandinavia.

TEMPERATURE

Highest, 53° at Lisbon, 47° at Oronozes, Brouil Point and Valencia.
 Lowest, 24° to 26° over the northern half of Sweden, 36° at Paris and Berlin, 37° at Copenhagen and Nisy, 38° at Mainz, and 39° at Stockholm.
 It is inclined to fall over the British Isles generally.

WIND

Strong, from SE. and E. in Scotland — fresh to strong from NE. and N. on our northeastern and western coast —
 Moderate from NW. over Brittany, gale from W. at Biscay.
 Very light from between SW. and SE. over central and Eastern France and in Belgium.

WEATHER

Cloudy and unsettled in our Islands, with cold showers in several places.
 Rain and thunders in the west of France, dull over central Europe, fine in Norway.
 The rainfall has been considerable over France, but slight at the majority of the British stations.

SEA

Rough on our north and northeast coasts, at Scilly, and over the Bay of Biscay, high at Biscay, and very high on the Portuguese coast; moderate in the Irish Sea, slight or smooth elsewhere.

PROBABLE CHANGES IN SYSTEM NOW PREVALENT

As the barometer is still falling in the west of France, but rising in our Islands and Scandinavia, the E. winds appear likely to continue, and to freshen at our northeastern and eastern stations.

FORECASTS

for the 24 hours ending at NOON on 6th APRIL 1889.

DISTRICTS.

FORECASTS.

† 0	SCOTLAND NORTH	E. winds, strong to moderate; some cold showers then finer.
† 1	SCOTLAND EAST	
† 2	ENGLAND N.E.	E. and NE. winds, freshening; a few cold showers
† 3	ENGLAND EAST	
† 4	MIDLAND COUNTIES	
† 5	ENGLAND SOUTH	Wind shifting to E. and cloudy, becoming colder, some local showers.

DISTRICTS.

FORECASTS.

† 6	SCOTLAND WEST	NE. winds, moderate; slight showers.
† 7	ENGLAND N.W.	
† 8	ENGLAND S.W.	N. to NE. winds, moderating; showery to fair, colder.
† 9	IRELAND NORTH	NE. breezes, moderate; colder, fair as a whole.
† 10	IRELAND SOUTH	
†	WARNINGS	The NORTH CONE is still flying on all coasts.

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

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

YESTERDAY'S 2 P.M. REPORTS.

	Bar.	Dry.	Wet.	Wind.	Woa.	Sea.		Bar.	Dry.	Wet.	Wind.	Woa.	Sea.
Skudesnæs ...	29.72	43	45	ESE 3	c	3	Holyhead ...	29.17	43	42	NNE 3	rmg	2
Sumburgh Head ...	29.66	40	36	ESE 5	c	6	Valencia ...	29.40	46	45	WNW 5	qthp	5
Stornoway ...	29.46	43	42	SE 6	o	5	Scilly ...	29.38	50	46	NW 7	c	6
Aberdeen ...	29.50	40	38	E 6	cq	6	Jersey ...	29.35	45	43	W 5	c	4
Shields ...	29.25	41	41	ESE 5	o	5	Dungeness ...	29.26	48	45	SW 5	bc	4
Ardrossan ...	29.29	42	41	NNE 4	o	2	London ...	29.20	48	45	S 3	of	*
Malin Head ...	29.31	42	40	NE 5	o	3	Yarmouth ...	29.26	44	43	SSE 4	bc	4
Mullaghmore ...	29.23	46	43	WNW 5	ogm	4	Rochefort ...	29.61	49	44	WNW 6	r	3
Belmullet ...	29.37	50	47	NW 4	b	*							

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

The reports for yesterday morning showed that pressure varied from between 29.8 ins. and 30.2 ins. over Northern Europe, and from between 29.9 ins. and 30.1 ins. over the Spanish Peninsula, to 29.2 ins. and less, in a depression lying over Hungary and Western Russia, and to 29.1 ins. and less in another depression, which was advancing southwards over the northwestern part of the British Isles. Thus, while the wind was E³ over the northern countries and SE³ in Scotland, it was S³ over England, W³ in the Channel and France, and NW³ in Ireland, and blew strongly in many places. Over Southeastern and Central Europe and in Western Russia an independent circulation was observed, the wind being N³ and NW³ over Poland and Austria-Hungary; SW³ at the Black Sea stations, SE³ at Kiev and Kharkov. Over the Mediterranean and Algeria the winds were very variable. The weather was changeable and showery, in the British Isles, dull and rainy in France; rain was falling over Southern Russia, snow over Austria-Hungary, and fog prevailed at many of the stations in the north of Russia; over Germany, the Western Baltic and Scandinavia, the weather was fair, although showers of snow had fallen during the previous day. Temperature was still below the freezing point over Lapland, Sweden, Finland, the Baltic Provinces, and Central Russia, and the extreme north of Germany, but above it elsewhere. The lowest readings were 15° F. at St. Petersburg, 24° at Hango, 25° at Uleaborg and Helsinki, 27° at Moscow, 28° at Haparanda, 30° at Rode and Heringsand, and 31° at Riga; the highest observed were 60° at Cagliari, 59° at Algiers, 56° at Malta, 54° at Palermo and Sanguinaires, 53° on the western coast of Spain and Portugal, 50° at Biarritz, 47° at Scilly, and 44° in the west of Ireland. In London the temperature was 47°, at Paris 44°, at Berlin 37°, and at Madrid 36°.

Later in the day the depression near Holyhead moved southwards over Wales, showers of rain (and some sleet) fell over the British Isles and a good deal of rain in 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 Saturday, 6th April,

1889.

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

STATIONS.	† YESTERDAY EVENING.					8 A.M. TO DAY.										PAST 24 HOURS.		
	Barometer at 32° F. and Sea Level.	Temp. in Shade.	WIND.		Weather.	BAROMETER.		SHADE TEMP.			WIND.		Weather.	Sea. (0 to 9.)	SHADE TEMP.		Amount of Rainfall.	
			Dir.	Force. (0 to 12.)		Reading at 32° F. and Sea Level.	Difference from 8 a.m. yesterday.	Dry.	Wet.	Difference from 8 a.m. yesterday.	Dir.	Force. (0 to 12.)			Max.	Min.		
SCANDINAVIA.																		
Haparanda ..	30.17	36	Z	0	b	30.22	+ .04	28	26	+ .4	Z	0	C	*	45	18	-	
Hernsund ...	30.17	31	Z	0	b	30.16	+ .03	28	28	+ .2	Z	0	b	*	45	16	-	
Stockholm ...	29.98	35	Z	0	b	29.95	+ .02	34	31	- .1	NE	2	O	*	45	28	-	
Wisby ...	29.87	33	NE	4	b	29.86	+ .04	34	32	- .3	NE	4	O	*	?	30	-	
Bodö ...	30.08	40	E	2	C	30.09	+ .03	40	36	+ .1	E	2	b	1	45	30	-	
Christiansund...	29.98	36	Z	0	b	29.97	+ .07	37	35	+ .1	E	2	bc	1	45	30	-	
Skudesnaes ...	29.89	43	E	1	O	29.89	- .00	43	38	+ .6	ESE	4	C	3	46	?	-	
Christiania Fjord (Færder)	29.94	39	NNE	3	bc	29.95	+ .07	36	33	+ .2	NNE	3	b	1	39	?	-	
Skagen (The Scaw)	29.84	38	ESE	4	C	29.84	+ .07	36	34	+ .1	E	4	b	4	41	34	-	
Fanö ...	29.84	38	NE	4	O	? 29.71	- .00	37	37	+ .7	NE	4	r	*	?	30	0.16	
BRITISH ISLANDS.																		
Sumburgh Head	29.87	39	ESE	1	O	29.85	+ .04	43	40	+ .3	E	2	O	4	45	35	-	
Stornoway ...	29.69	41	E	6	r	29.68	- .01	40	40	+ .1	SE	4	O	4	41	35	0.10	
Wick ...	29.80	40	SE	5	C	29.76	+ .02	43	41	+ .3	SE	6	O	5	44	37	0.03	
Nairn ...	29.73	40	ESE	1	bc	29.69	- .00	40	39	+ .2	E	1	op	1	43	36	0.10	
Aberdeen...	29.86	38	ESE	5	Cq	29.73	+ .02	41	40	+ .1	E	4	og	5	42	38	0.09	
Leith ...	29.65	39	E	5	O	29.66	+ .08	40	37	- .0	E	4	O	*	42	37	0.02	
Shields ...	29.60	39	E	4	C	29.63	+ .11	38	37	- .4	E	3	r	5	42	37	0.11	
Spurn Head ...	29.47	42	E	5	r	29.56	+ .11	43	42	+ .1	ESE	2	C	3	44	39	0.06	
York ...	? 29.50	39	ESE	2	r	? 29.57	+ .11	41	39	- .3	ESE	1	O	*	49	36	0.18	
Loughborough	29.46	44	NNE	2	r	29.58	+ .16	39	39	- .4	ESE	1	om	*	50	38	0.21	
Ardrossan ...	29.58	43	NE	4	om	29.62	+ .08	40	38	- .2	NE	4	om	2	47	34	0.01	
Malin Head ...	29.55	42	ESE	2	smr	29.59	+ .02	39	37	- .2	SSE	4	bcm	3	43	38	0.03	
Mullaghmore ...	29.54	45	NE	4	om	29.54	- .00	42	40	0	ESE	5	om	3	46	40	-	
Belmullet ...	29.48	47	NE	3	bc	29.55	- .02	44	43	0	E	1	O	*	51	37	-	
Donaghadee ...	29.53	46	NE	3	C	29.60	+ .07	41	38	- .2	NE	5	O	4	47	39	0.01	
GERMANY.																		
Barrow-in-Furness	29.49	44	NE	5	O	29.56	+ .11	41	39	0	NE	3	O	*	50	38	0.03	
Liverpool (Bidston)	29.47	45	ESE	3	O	29.56	+ .11	41	39	0	E	2	O	3	50	36	0.30	
Holyhead ...	29.46	46	ESE	3	Cmq	29.52	+ .07	40	39	- .2	E	2	ogm	2	47	39	-	
Parsonstown ...	29.52	45	Z	0	O	29.53	- .02	41	38	0	Z	0	O	*	46	36	-	
Valencia ...	29.52	48	NNE	2	cm	29.56	- .00	42	40	- .5	WNW	1	bcw	1	53	36	-	
FRANCE & NETHERLANDS.																		
Roche's Point...	29.49	46	NW	8	O	29.55	+ .02	44	41	+ .1	N	3	b	3	48	43	-	
Pembroke ...	29.43	45	N	2	bc	29.51	+ .08	42	42	- .2	E	1	opm	1	49	41	0.01	
Scilly ...	29.44	46	NW	3	C	29.52	+ .05	47	44	+ .1	NW	4	C	4	45	44	-	
Prawle Point ...	29.41	43	WNW	2	O	29.51	+ .12	48	45	+ .1	NW	2	bc	1	48	34	0.09	
Jersey ...	29.46	46	WNW	4	bc	29.48	+ .07	43	42	- .6	NW	2	cm	2	51	37	0.06	
PENINSULA.																		
Hurst Castle ...	29.42	45	SSE	2	om	29.50	+ .12	44	42	- .1	ESE	2	cm	1	50	39	-	
Dungeness ...	29.45	45	SE	3	C	29.47	+ .05	46	43	- .1	NE	2	bc	1	50	41	-	
London ...	29.43	47	S	2	b	29.52	+ .11	43	42	0	ESE	2	og	*	55	39	-	
Oxford ...	29.46	42	E	1	O	29.54	+ .13	40	39	- .2	NE	2	O	*	53	38	0.03	
Cambridge ...	29.47	44	E	1	b	29.57	+ .13	37	36	- .6	NNE	1	O	*	54	34	0.01	
Yarmouth ...	29.47	42	ESE	2	bc	29.53	+ .09	41	40	- .1	NE	3	cf	4	44	36	0.05	
Cuxhaven ...	29.64	39	E	4	bc	29.64	- .00	40	39	+ .3	E	4	O	*	41	?	-	
Berlin ...	29.66	40	SSE	1	O	29.66	+ .08	40	39	+ .4	E	2	O	*	41	?	-	
Wiesbaden ...	*	*	*	*	*	29.50	- .01	47	42	+ .3	NE	2	O	*	52	41	-	
Munich ...	29.52	41	NE	4	b	29.43	?	35	35	0	SE	2	C	*	50	30	-	
PENINSULA.																		
The Helder ...	29.55	43	E	1	r	29.57	+ .07	39	38	- .1	E	2	C	3	45	39	0.04	
Brussels 9 AM.	*	*	*	*	*	29.52	+ .05	42	41	- .1	SSW	1	r	*	51	39	0.12	
Cape Gris Nez...	?	44	Z	0	f	?	?	43	41	+ .1	ESE	2	m	2	52	39	0.12	
Paris ...	29.50	40	SSW	2	C	29.49	- .01	42	40	+ .6	ESE	2	O	*	56	?	-	
Brest ...	? 29.51	49	NW	3	O	? 29.55	- .03	46	44	+ .2	NW	4	C	3	54	42	-	
Lorient ...	29.51	48	WNW	5	C	29.51	+ .06	45	43	+ .1	NW	3	b	3	50	43	-	
Rochefort ...	29.59	49	NW	4	O	29.56	+ .04	46	45	+ .2	W	3	C	2	52	37	0.28	
Belfort ...	29.49	40	W	1	O	29.48	- .06	42	41	+ .3	W	1	O	*	50	37	0.08	
Lyons ...	29.54	46	E	1	bc	29.52	- .05	38	36	- .1	SE	1	b	*	51	33	-	
Nice ...	29.44	39	N	5	r	29.47	+ .01	44	41	- .3	E	3	b	1	?	37	0.95	
Perpignan ...	29.59	51	NW	4	r	29.51	- .06	45	43	- .1	Z	0	O	*	60	41	-	
Biarritz ...	? 29.69	49	NW	6	r	? 29.59	- .07	48	46	+ .3	NW	5	ry	7	52	45	0.71	
PENINSULA.																		
Corunna ...	*	*	*	*	*													
Lisbon ...	30.14	55	W	4	r	30.06	- .04	53	50	0	NW	5	bc	?	61	50	0.08	

For Explanation of Columns, see p. 4.

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

WEATHER CHARTS

for 8 a.m. on Saturday, 6th April.

1889.

BAROMETER, WIND & SEA.

(Explanation of Map)

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

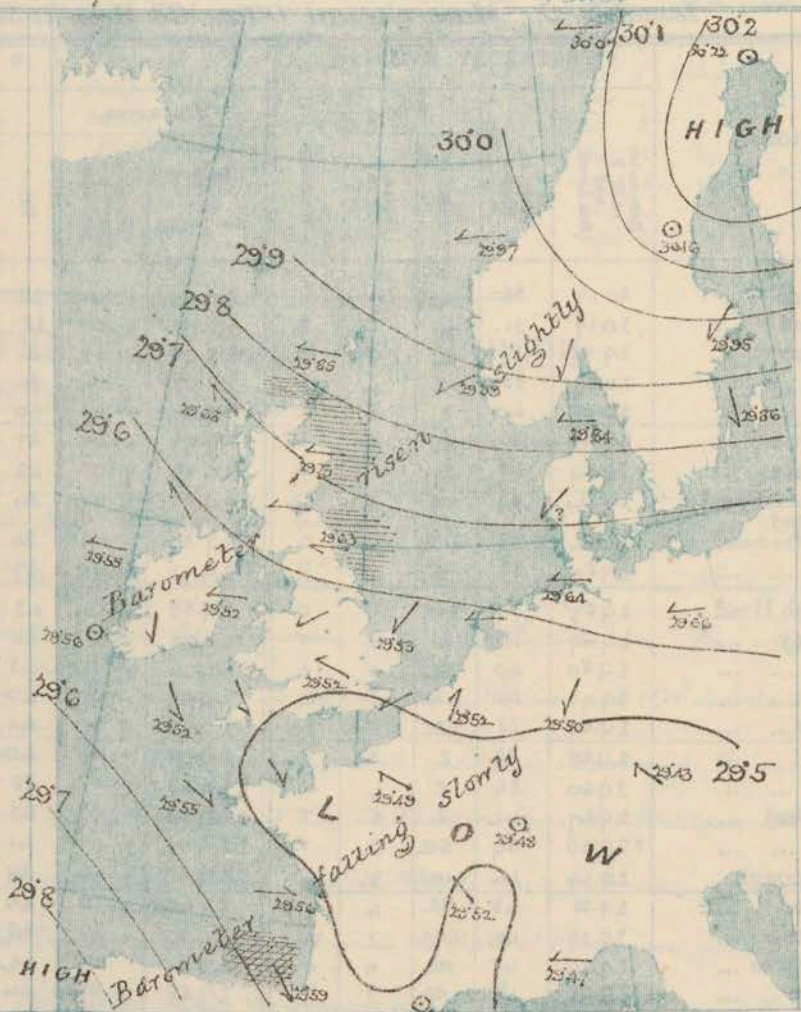
Sea Disturbance — where considerable is shown thus.

— Rough — High.

MEAN HEIGHT of the BAROMETER

at 8 a.m. for the month of April.
 During the 15 Years 1871–1885.

STATIONS.	MEAN READINGS.
Sumburgh Head	29.849
Stornoway	29.821
Wick	29.853
Nairn	29.853
Aberdeen	29.862
Leith	29.866
Shields	29.870
York	29.877
Loughborough	29.878
Ardrossan	29.857
Donaghadee	29.853
Holyhead	29.851
Liverpool	29.864
Parsonstown	29.853
Valencia	29.835
Roche's Point	29.838
Pembroke	29.844
Scilly	29.849
Jersey	29.887
Hurst Castle	29.867
Dover	29.866
LONDON	29.877
Oxford	29.882
Cambridge	29.879
Yarmouth	29.876



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.

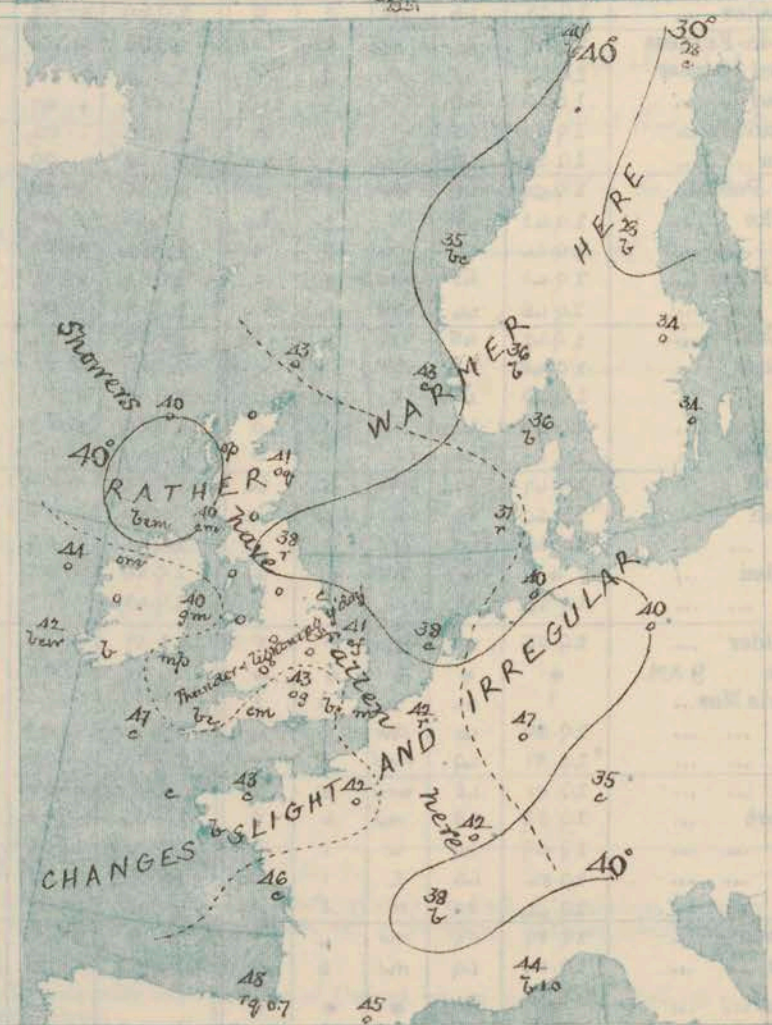
MEANS OF TEMPERATURE IN SHADE.

AND RAINFALL.

for the month of April.

STATIONS.	TEMPERATURE.				RAINFALL. (Inches.)
	Daily Max.	Daily Min.	at 8 a.m. Dry.	Wet.	
Sumburgh Head	40.3	37.3	41.9	40.5	2.16
Stornoway	40.3	37.5	44.1	42.3	2.51
Wick	40.2	37.4	43.3	41.2	1.56
Nairn	51.5	37.9	43.1	40.6	1.23
Aberdeen	40.6	38.5	43.4	40.9	2.23
Leith	52.6	38.2	44.2	42.1	1.55
Shields	49.2	39.2	43.8	41.7	1.94
York	54.1	37.8	44.1	42.0	1.86
Loughborough	55.7	38.3	45.1	42.6	1.77
Ardrossan	52.1	39.0	44.6	42.2	2.23
Donaghadee	51.3	40.1	44.8	43.2	2.02
Holyhead	51.9	42.4	46.2	44.2	1.86
Liverpool	53.0	40.7	45.5	42.6	1.56
Parsonstown	55.0	38.3	45.7	43.0	2.15
Valencia	54.3	42.9	43.4	45.9	4.01
Roche's Point	54.2	42.4	47.0	44.9	3.43
Pembroke	50.8	42.1	45.6	43.6	2.10
Scilly	52.5	45.0	49.0	47.1	2.45
Jersey	54.6	43.6	49.0	46.4	2.04
Hurst Castle	52.3	41.4	45.9	44.6	1.87
Dover	51.5	42.4	47.1	44.6	1.81
LONDON	56.7	40.0	46.8	43.8	1.86
Oxford	55.1	39.3	45.0	42.7	1.79
Cambridge	56.2	37.7	45.6	43.3	1.78
Yarmouth	49.5	40.4	45.1	43.4	1.80

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



GENERAL SITUATION AT 8 A.M.

PRESSURE

Highest, 30.0 ins: to 30.2 ins: over the northern half of Scandinavia and Finland—29.8 ins: to 30.1 ins: over the southwestern half of Spain.
Lowest, 29.5 ins: and less, in a irregularly formed depression over France, S. Germany and the Riviera.
Gradients moderate to slight. Barometer falling very slowly over France, rising over our Islands and North Sea.

TEMPERATURE

Highest, 53° at Lisbon, 48° at Biarritz, 47° at Scilly, 44° at Helmsleet.
Lowest, 28° in the north of Sweden, 34° at Stockholm, 38° at Lyons, 39° at the Hebrides, 40° at Berlin. At Paris it is 42° and in London 43°.
It has risen a little in Scotland, Norway and Denmark, changed irregularly elsewhere.

WIND

Variable from the East (SE to NE) over the northern half of our area and in Germany.
NW over the Bay of Biscay and Spain, variable and light over France.

WEATHER

Fine over Scandinavia, the southeast of France and at Helmsleet.
Cloudy and gloomy elsewhere, with fog or haze in many parts of our Islands, and showers locally.
Heavy rain fell yesterday in the south and southwest of France and thunderstorms occurred over the southern half of England.

SEA

High at Biarritz, rough on our northeast coast, moderate or slight elsewhere.

PROBABLE CHANGES IN SYSTEM NOW PREVALENT

There is no indication of any great change.

FORECASTS

for the 24 hours ending at NOON on 7th APRIL 1889.

DISTRICTS.

FORECASTS.

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

SE^{ly} winds, moderate, some slight showers.

E^{ly} or NE^{ly} winds, light or moderate; fair as a whole.

NE^{ly} winds, light, fair.

NE^{ly} to N^{ly} winds, light; fair, cold.

DISTRICTS.

FORECASTS.

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

Same as Nos 1 to 3.

NW^{ly} and Varying winds; some slight showers.

Same as Nos 1 to 3.

Same as No 8.

None ISSUED.

WARNINGS

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

YESTERDAY'S 2 P.M. REPORTS.

	Bar.	Dry.	Wet.	Wind.	Wes.	Sea.		Bar.	Dry.	Wet.	Wind.	Wes.	Sea.
Skudesnaes ...	29.88	46	39	E 4	C	3	Holyhead ...	29.46	45	43	NNE 4	bcm	4
Sumburgh Head ...	29.86	42	40	SSE 2	C	4	Valencia ...	29.50	53	47	N 2	cm	2
Stornoway ...	29.70	40	40	SE 6	T	5	Scilly ...	29.47	48	44	NW 4	0	5
Aberdeen ...	29.74	41	39	ESE 5	Cq	6	Jersey ...	29.43	50	45	W 4	bc	3
Shields ...	29.58	40	39	E 4	T	5	Dungeness ...	29.45	49	46	SW 3	b	2
Ardrossan ...	29.53	42	40	NE 4	C	2	London ...	29.44	56	44	SE 2	0	*
Malin Head ...	29.54	43	41	E 4	O	3	Yarmouth ...	29.46	44	43	ESE 2	bcp	3
Mullaghmore ...	29.54	45	42	E 4	Om	3	Rochefort ...	29.60	49	46	NW 3	C	2
Belmullet ...	29.53	49	46	NE 3	C	*							

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

The Continental Information will appear in tomorrow's report.

EXPLANATION OF COLUMNS GIVEN ON PAGE 1.

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

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

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

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DAILY WEATHER REPORT.

for Sunday 7th APRIL 1889.
Issued by the Meteorological Office, 63 Victoria Street, London. R. H. SCOTT, Secretary.

STATIONS.	† YESTERDAY EVENING.					8 A.M. TO DAY.										PAST 24 HOURS.		
	Barometer at 32° F. and Sea Level.	Temp. in Shade.	WIND.		Weather.	BAROMETER.		SHADE TEMP.			WIND.		Weather.	Sea (0 to 9.)	SHADE TEMP.		Amount of Rainfall.	
			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 ..	30.19	33	Z	0	bc	30.07	-.15	36	34	+.08	Z	0	bc	*	45	19	—	
Hernösand ...	30.11	28	Z	0	b	30.04	-.12	30	28	+.02	Z	0	b	*	46	18	—	
Stockholm ...	29.90	35	NE	2	o	29.83	-.12	33	32	-.01	NE	2	r	*	57	27	—	
Wisby ...	29.76	37	NE	4	o	29.74	-.12	34	33	0	N	4	o	*	39	28	—	
Bodö ...	30.00	40	E	2	b	29.93	-.14	40	35	0	E	2	o	1	45	36	—	
Christiansund...	29.93	40	Z	0	b	29.93	-.04	36	35	-.01	ESE	1	b	*	41	30	—	
Skudesnaes ...	29.88	39	W	1	c	29.87	-.02	40	36	0	SE	2	c	2	54	34	—	
Christiania Fjord (Farder)	29.93	39	E	3	c	29.86	-.09	38	35	+.03	NNE	4	o	1	41	36	—	
Skagen (The Scaw)	29.87	36	ESE	3	o	29.79	-.08	37	35	+.02	ENE	3	o	2	41	36	—	
Fanö ...	29.71	38	E	6	c	?	?	36	35	-.01	E	6	o	*	41	36	—	
BRITISH ISLANDS.																		
Sumburgh Head	29.88	42	ESE	4	o	29.86	+.01	43	40	0	E	1	b	3	45	37	—	
Stornoway ...	29.62	42	SE	5	o	29.70	+.02	42	41	+.01	SE	5	c	4	46	37	0.02	
Wick ...	29.69	40	SE	6	o	29.75	-.01	40	39	-.01	SE	4	ow	4	45	39	0.00	
Nairn ...	29.62	42	E	1	c	29.69	0.00	40	38	0	E	3	o	2	45	38	0.03	
Aberdeen...	29.68	40	SE	4	op	29.71	-.07	39	38	-.01	E	6	opw	6	48	37	0.13	
Leith ...	29.60	39	E	5	o	29.60	-.06	39	38	-.01	E	4	p	*	42	37	0.05	
Shields ...	29.60	40	E	2	o	29.54	-.09	40	39	+.01	E	4	r	5	40	35	0.23	
Spurn Head ...	29.54	41	ENE	4	o	29.46	-.10	42	41	-.01	ENE	5	o	4	43	40	0.16	
York ...	29.58	42	E	1	o	29.46	-.11	40	40	0	ENE	1	r	*	47	38	0.18	
Loughborough	29.52	45	ENE	3	o	29.40	-.18	41	41	+.01	NE	2	ogd	*	57	37	0.17	
Ardrossan ...	29.55	45	ENE	4	c	29.57	-.05	41	40	+.01	ENE	4	om	2	47	34	—	
Malin Head ...	29.47	42	SE	5	og	29.56	-.03	41	39	+.02	E	4	op	3	44	39	—	
Mullaghmore ...	29.42	44	E	6	ogm	29.52	-.05	42	40	0	E	5	bm	3	45	41	—	
Belmullet ...	29.38	47	ESE	5	bc	29.53	-.02	43	42	-.01	ESE	3	o	*	50	38	—	
Donaghadee ...	29.50	46	E	5	c	29.54	-.04	41	39	0	E	6	bc	4	46	40	0.01	
GERMANY.																		
Barrow-in-Furness	29.50	45	NE	3	bc	29.47	-.09	40	39	-.01	NNE	4	o	*	50	38	—	
Liverpool (Bidston)	29.48	47	ESE	2	c	29.44	-.12	38	37	-.01	ENE	3	r	3	57	37	0.25	
Holyhead ...	29.46	46	Z	0	rgm	29.45	-.07	40	39	0	ENE	4	ogp	4	48	40	0.01	
Parsonstown ...	29.57	45	Z	0	o	29.49	-.04	42	40	+.02	NE	1	o	*	48	37	—	
Valencia ...	29.30	48	SE	5	cm	29.43	-.13	47	43	+.04	NE	1	bm	2	57	40	—	
Roche's Point...	29.37	46	SE	4	cm	29.41	-.14	44	42	0	ENE	4	c	4	49	34	0.01	
Pembroke ...	29.42	45	ESE	3	m	29.37	-.14	41	39	-.02	NE	4	bc	2	47	40	—	
Scilly ...	29.39	48	SSW	2	c	29.24	-.28	46	43	-.03	ENE	6	c	5	51	44	0.02	
Prawle Point ...	29.46	44	SE	2	b	29.28	-.23	46	43	-.03	ENE	5	bc	4	49	40	—	
Jersey ...	29.48	50	WNW	3	b	29.25	-.23	44	43	+.01	E	4	om	3	57	38	—	
Hurst Castle ...	29.48	46	ENE	1	bc	29.34	-.16	44	42	0	E	4	cm	3	52	41	—	
Dungeness ...	29.46	45	NE	3	c	29.38	-.09	45	43	-.02	E	3	c	2	50	40	—	
London ...	29.48	48	SSE	2	ogm	29.39	-.13	41	39	-.02	ENE	2	o	*	55	39	—	
Oxford ...	29.49	40	NE	1	b	29.39	-.15	38	37	-.01	NE	1	c	*	50	36	0.13	
Cambridge ...	29.51	45	E	1	o	29.41	-.16	38	37	+.01	Z	0	o	*	52	35	0.22	
Yarmouth ...	29.52	40	ENE	3	org	29.42	-.11	41	40	0	SE	2	og	4	42	39	0.36	
Cuxhaven ...	29.62	39	E	5	o	29.62	-.02	39	37	-.02	E	5	o	*	42	37	—	
Berlin ...	29.65	43	ESE	4	o	29.60	-.06	40	39	0	E	4	o	*	45	37	—	
Wiesbaden ...	*	*	*	*	*	29.47	-.03	46	44	-.02	Z	0	o	*	55	43	—	
Munich ...	29.50	45	ESE	4	o	29.48	+.05	40	38	+.02	W	5	o	*	54	36	—	
FRANCE & NETHERLANDS.																		
The Helder ...	29.57	44	E	2	f	29.46	-.09	39	38	0	E	2	r	3	45	39	—	
Brussels ...	*	*	*	*	*	29.45	-.07	44	42	+.02	SSE	1	c	*	44	39	0.43	
Cape Gris Nez...	?	44	NE	4	c	?	?	39	38	-.01	SE	2	b	1	50	36	—	
Paris ...	29.40	48	NE	2	o	29.41	-.08	38	35	-.03	SSE	2	o	*	54	35	0.04	
Brest ...	29.56	49	SW	2	o	29.19	-.36	45	43	-.02	E	5	r	5	52	42	0.20	
Lorient ...	29.52	49	W	3	b	29.10	-.41	45	44	0	SE	6	o	6	52	43	0.28	
Rochefort ...	29.62	50	W	4	bc	29.28	-.28	46	45	0	SSE	6	r	4	54	39	0.16	
Belfort ...	29.55	47	W	1	o	29.46	-.02	43	42	+.01	W	1	bc	*	52	39	—	
Lyons ...	29.55	46	W	1	o	29.48	-.04	39	37	+.02	S	2	b	*	55	34	—	
Nice ...	29.49	47	W	2	c	29.49	+.02	45	42	+.03	E	3	c	2	55	39	—	
Perpignan ...	29.63	46	WNW	3	r	29.42	-.09	47	45	+.02	Z	0	o	*	59	36	—	
Biarritz ...	29.69	50	WNW	7	o	29.26	-.33	57	46	+.11	SSW	3	o	5	52	45	0.20	
Corunna ...	*	*	*	*	*	29.29	-.61	57	50	-.07	WNW	7	r	6	55	45	0.83	
Lisbon ...	30.04	55	WSW	5	o	29.70	-.36	55	52	-.03	WNW	7	r	9	56	50	0.83	

For Explanation of Columns, see p. 4.

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

WEATHER

CHARTS

for 8 a.m. on

Sunday, 7th April.

1889.

BAROMETER, WIND & SEA.

(Explanation of Map)

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

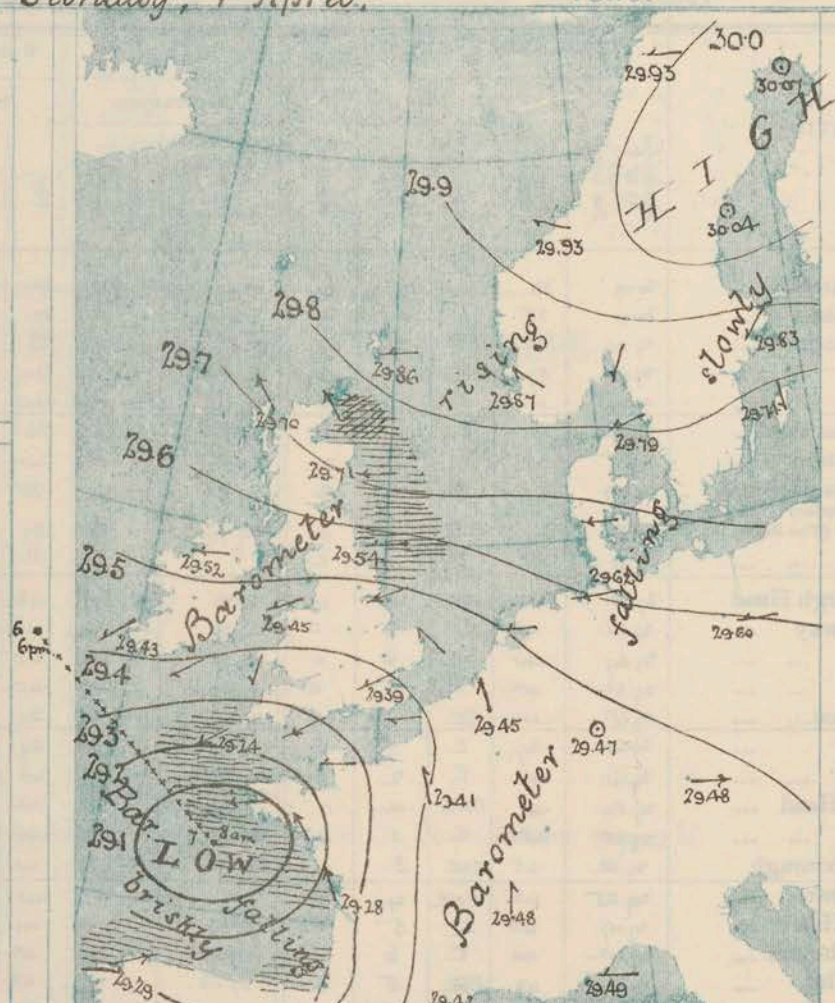
Sea Disturbance — where considerable, is shown thus.

— = Rough — = High.

MEAN HEIGHT of the BAROMETER

at 8 a.m. for the month of April.
 During the 15 Years 1871 — 1885.

STATIONS.	MEAN READINGS.
Sumburgh Head	29.849
Stornoway	29.821
Wick	29.853
Nairn	29.853
Aberdeen	29.862
Leith	29.865
Shields	29.870
York	29.877
Loughborough	29.878
Ardrossan	29.867
Donaghadee	29.853
Holyhead	29.851
Liverpool	29.864
Parsonstown	29.853
Valencia	29.835
Roche's Point	29.838
Pembroke	29.844
Scilly	29.849
Jersey	29.867
Hurst Castle	29.867
Dover	29.866
LONDON	29.877
Oxford	29.882
Cambridge	29.879
Yarmouth	29.876



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.

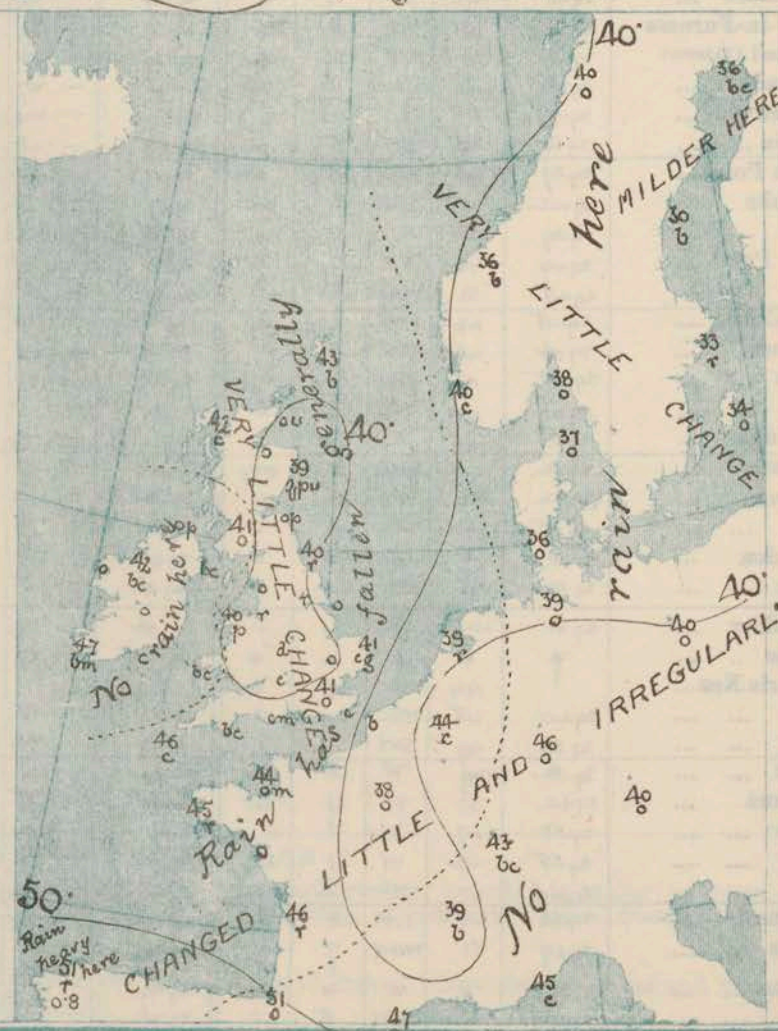
MEANS OF TEMPERATURE IN SHADE.

AND RAINFALL.

for the month of April.

STATIONS.	TEMPERATURE.				RAINFALL. (Inches)
	Daily Max.	Daily Min.	at 8 a.m. Dry.	Wet.	
Sumburgh Head	46.3	37.3	41.9	40.5	2.16
Stornoway	43.3	37.5	44.1	42.3	2.51
Wick	49.2	37.4	43.2	41.2	1.56
Nairn	51.5	37.9	43.1	40.6	1.23
Aberdeen	49.6	38.5	43.4	40.9	2.23
Leith	52.6	38.2	44.2	42.1	1.65
Shields	49.2	39.2	43.8	41.7	1.94
York	54.1	37.8	44.1	42.0	1.86
Loughborough	55.7	38.3	45.1	42.6	1.77
Ardrossan	52.1	39.9	44.6	43.2	2.23
Donaghadee	51.3	40.1	44.8	43.2	2.02
Holyhead	51.9	42.4	46.2	44.2	1.86
Liverpool	53.0	40.7	45.5	42.6	1.56
Parsonstown	55.0	38.3	45.7	43.0	2.15
Valencia	54.3	42.9	48.4	45.9	4.01
Roche's Point	54.2	42.4	47.0	44.9	3.43
Pembroke	50.8	42.1	45.6	43.6	2.10
Scilly	52.5	45.0	49.0	47.1	2.45
Jersey	54.6	43.6	49.0	46.4	2.04
Hurst Castle	52.3	41.4	45.9	44.6	1.87
Dover	51.5	42.4	47.1	44.5	1.81
LONDON	56.7	40.0	46.8	43.8	1.86
Oxford	55.1	39.3	45.0	42.7	1.79
Cambridge	56.2	37.7	45.5	43.3	1.76
Yarmouth	49.5	40.4	45.1	43.4	1.80

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



GENERAL SITUATION AT 8 A.M.

PRESSURE

Highest, 29.8 in: is usually 30.1 in: over Scandinavia and Shetland Isles — 29.7 in: and more over the south of Spain.
Lowest, 29.1 in: and less, in a well marked depression lying over the Bay of Biscay.
Gradients rather steep over the Bay of Biscay and west of France, moderate over the British Isles, slightly over Germany and east of France.
Barometer fallen greatly over Spain and the Bay of Biscay, risen slightly on our northern coast.

TEMPERATURE

Highest, 55° at Lisbon, 51° at Kilmory, 47° at Valencia, and 46° at Seville.
Lowest, 30° at Herra and, 33° at Stockholm, 33° at the Shetlands, Luth and Aberdeen, 40° at Berlin and Munich, and 41° in London.
It has risen in the northern parts of Sweden, changed little and irregularly elsewhere.

WIND

W¹, very strong, over Spain (a tempest at Lisbon during the night).
S to SE over France, strong over Brittany and at Rochefort, light at the eastern stations.
E¹ over England and Ireland rather in many places — SE and S in Scotland, strong to gale.
E¹, moderate on the eastern shores of the North Sea.

WEATHER

Clear and bright over Scandinavia, the Shetland Isles, the east of France and the south of Ireland.
Bull elsewhere, with rain at many of our northern and northeastern stations, as well as over Spain. A threatening appearance is reported in the east of Scotland.
Rainfall has been very heavy over Spain; thunder occurred in the north of London yesterday.

SEA

High off the east of Scotland, rather rough at the mouth of the Tyne — rough over the Bay of Biscay and at Comma, "monstrously" high at Lisbon.

PROBABLE CHANGES IN SYSTEM NOW PREVALENT

FORECASTS

for the 24 hours ending at NOON on 8th April. 1889.

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 districts 0.1.6.7.9.10 and part of 2.

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.	Dry.	Wet.	Wind.	Wca.	Sea.		Bar.	Dry.	Wet.	Wind.	Wca.	Sea.
Skudesnaes ...	29.88	53	42	E 4	c	3	Holyhead ...	29.50	47	44	S 2	cmg	2
Snibburgh Head ...	29.83	43	39	E 4	o	5	Valencia ...	29.44	50	44	SSE 5	bcm	5
Stornoway ...	29.65	46	44	SE 6	o	5	Scilly ...	29.49	50	45	WNW 2	c	4
Aberdeen ...	29.69	41	40	ESE 3	o/p	5	Jersey ...	29.57	51	46	NW 3	c	3
Shields ...	29.62	40	39	E 3	o	5	Dungeness ...	29.47	49	46	E 4	bc	3
Ardrossan ...	29.58	46	44	ENE 4	c	2	London ...	29.50	50	45	NE 3	cg	*
Malin Head ...	29.54	42	40	ESF 4	o	2	Yarmouth ...	29.53	42	41	NE 3	cd	4
Mullaghmore ...	29.50	45	42	E 5	om	3	Rocheport ...	29.63	53	48	NW 4	bc	2
Balmullet ...	29.47	50	47	SE 4	o	*							

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

The reports for yesterday morning showed that pressure varied from between 30.0 ins. and 30.4 ins. over Northern Europe, and from between 29.9 ins. and 30.1 ins. over the southern half of Spain, to rather below 29.5 ins. in a complex low pressure system covering France, Western Germany, and the Gulf of Genoa. The wind over the northern countries (including the British Isles) was consequently E (SE to NE), while that over the Bay of Biscay, Spain and the Mediterranean was NW to W. Over Central Europe and France, the wind was light and very variable. The weather was fine over Scandinavia, and also at many stations situated in the southwest of our Islands, the west of France, Spain, and on the southern shores of the Mediterranean, dull and cloudy elsewhere, with showers in the northwest and north of the British Islands, the Netherlands and Holstein and snow at some of the Russian stations. Showers had been very prevalent over Holland, France, the Riviera and Italy since the previous evening. Temperature varied from rather below the freezing point over Lapland and the northern parts of Sweden and Russia to upwards of 50° in Portugal and some parts of the Italian coasts and to between 55° and 60° at the Algerian stations. The lowest individual values were 28° at Haparanda and Hernösand, 31° at Archangel and Moscow, 34° at St. Petersburg, Stockholm, New Schwarsow and Kiev, 35° at Munich, 37° at Christiansund and Tanö, and 38° at Lyons; the highest were 60° at Algiers, 59° at Oran, 56° at Barcelona, 55° at Legaria, 54° at Girona, 53° at Lubow and Spitz, 52° at Malta and Palermo, 48° at Trade Point and 47° at Scilly. At Berlin the temperature was 40°, at Brussels and Paris 42°, and in London 43°.

Later in the day a fresh fall of the barometer set in on our western coast, and the wind increased considerably from E. and SE. at our northern stations.

General Remarks on the Weather over Europe for 24 hours ending at 8am on April 6th 1889.

The reports for Friday morning showed that pressure varied from between 30.0 ins. and 30.2 ins. over Lapland, Finland, and the northern half of Russia, and from between 30.0 ins. and 30.2 ins. over the southwestern half of Spain to 29.4 ins. and less, in a depression lying over the south of England to 29.5 ins. and less, in another such system lying over Hungary and Galicia, as well as in a new depression which had been developed over the Riviera and the Gulf of Genoa. Thus, while NW winds prevailed over the Bay of Biscay, the Spanish Peninsula, and Western Algeria, and E. to NE winds over the northern half of Europe and the British Isles, the wind over Central Europe was so extremely variable and its force light. The weather though fine and bright in several localities, was in an unsettled state generally, showers prevailed in several parts of the United Kingdom, steady rain in the southwest of France and at Brussels, snow at several of the German stations, fog in the south of Russia. Temperature had risen fast over Finland and Lapland, but had changed little and irregularly elsewhere; it was below the freezing point over the northern half of Sweden and over Central Russia only, but was very little above that value over Germany. The lowest values reported were 24° F. at Haparanda, 27° at Moscow, and 33° at Archangel, Hango, Riga, Breslau, and Prague, and below 40° at nearly all the German and Austrian stations; the highest were 59° at La Calle, 57° at Oran, 56° at Nemours, Brindisi, and Cagliari, 55° at San Fernando, 53° at Langunaria, Lisbon and Girona, 47° at Aichi, Valencia and Dungeness and 46° at Scilly. No important change occurred 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 *Monday, April 8th* 1889.
 Issued by the Meteorological Office 63 Victoria Street, London. R. H. SCOTT, Secretary.

+ YESTERDAY EVENING.																		8 A.M. TO DAY.										PAST 24 HOURS.		
STATIONS.	Barometer at 32° F. and Sea Level.	Temp. in Shade.	WIND.		Weather.	BAROMETER.		SHADE TEMP.			WIND.		Weather.	Sea (0 to 9.)	SHADE TEMP.															
			Dir.	Force, (0 to 12.)		Reading at 32° F. and Sea Level.	Difference from 8 a.m. yesterday.	Dry.	Wet.	Difference from 8 a.m. yesterday.	Dir.	Force, (0 to 12.)			Max.	Min.	Amount of Rainfall.													
SCANDINAVIA.																														
Haparanda ..	29.99	28	Z	0	c	29.98	- .14	28	27	- 8	Z	0	o	*	43	25	-													
Hernösand ...	29.95	33	Z	0	c	29.90	- .14	33	33	+ 3	NE	2	s	*	41	18	-													
Stockholm ...	29.84	33	Z	0	o	29.78	- .05	34	33	+ 1	NNE	2	o	*	36	30	0.04													
Wisby ...	29.82	35	NNE	2	o	29.76	+ .02	35	34	+ 1	NE	4	o	*	41	30	-													
Bodö ...	29.87	37	E	2	o	29.88	- .05	37	33	- 3	NE	2	b	1	?	32	-													
Christiansund...	29.89	39	NNE	4	bc	29.85	- .08	39	37	+ 3	Z	0	o	1	45	36	-													
Skudesnaes ...	29.83	39	Z	0	bc	29.77	- .10	40	37	0	E	2	o	3	?	34	-													
Christiania Fjord (Fæder)	29.86	39	ENE	2	o	29.80	- .19	35	33	- 3	NNE	2	o	1	39	34	-													
Skagen (The Scaw)	29.78	37	E	2	o	29.72	- .07	36	35	- 1	ESE	2	o	1	41	36	-													
Fanö ...	29.69	37	E	6	o	29.67	?	38	36	+ 2	E	4	c	*	39	36	-													
BRITISH ISLANDS.																														
Sumburgh Head	29.82	43	NE	2	b	29.77	- .09	40	39	- 3	NE	2	r	3	46	36	0.02													
Stornoway ..	29.72	43	E	4	c	29.64	- .06	41	40	- 1	E	6	o	3	45	38	-													
Wick ...	29.79	40	SE	6	o	29.68	- .07	41	39	+ 1	SE	6	o	6	41	38	0.03													
Nairn ...	29.72	40	E	2	o	29.61	- .08	40	39	0	SE	8	o	1	42	38	0.02													
Aberdeen...	29.73	39	ENE	6	ogpu	29.66	- .05	39	39	0	E	6	ogp	6	41	38	0.06													
Leith ...	29.63	39	E	3	o	29.54	- .06	42	40	+ 3	E	4	o p	*	42	37	0.06													
Shields ...	29.56	39	E	5	r	29.52	- .02	41	40	+ 1	ESE	4	o	5	41	37	0.20													
Spurn Head ...	29.43	39	NE	3	r	29.47	+ .01	41	40	- 1	E	5	o	4	42	37	0.24													
York ...	29.47	39	ENE	1	r	29.47	+ .01	41	41	+ 1	E	1	m	*	43	36	0.23													
Loughborough	29.44	43	NNE	2	c	29.43	+ .03	41	41	0	E	1	ogm	*	48	36	0.02													
Ardrossan ...	29.59	42	NE	4	o	29.47	- .10	41	40	0	ENE	4	ogp	2	45	37	0.02													
Malin Head ...	29.57	43	E	5	o	29.44	- .12	39	39	- 2	E	5	or	3	45	38	0.06													
Mullaghmore ...	29.55	44	NE	5	ogm	29.43	- .09	40	39	- 2	ENE	5	or	4	45	38	0.04													
Belmullet ...	29.56	46	NE	2	o	29.43	- .10	41	40	- 2	E	3	o	*	49	40	-													
Donaghadee ...	29.55	46	E	5	o	29.44	- .10	41	40	0	E	4	o	3	46	38	0.13													
GERMANY.																														
Barrow-in-Furness	29.49	43	NE	3	r	29.44	- .03	39	37	- 1	NE	2	o	*	45	37	0.05													
Liverpool (Bidston)	29.47	41	ENE	4	o	29.43	- .01	37	36	- 1	ESE	1	r	2	44	36	0.10													
Holyhead ...	29.45	43	ENE	4	ogm	29.40	- .05	40	39	0	E	1	ogm	2	44	37	0.02													
Parsonstown ...	29.52	42	NE	1	o	29.41	- .08	38	38	- 4	Z	0	r	*	47	37	0.08													
Valencia ...	29.52	49	NE	3	bc	29.38	- .05	42	40	- 5	Z	0	o	1	53	34	-													
Roche's Point...	29.47	46	NNE	4	c	29.36	- .05	43	40	- 1	NNE	2	b	3	51	39	-													
Pembroke ...	29.41	43	NNE	3	c	29.36	- .01	41	40	0	E	2	cpm	3	47	40	0.04													
Scilly ...	29.38	47	NNE	5	cm	29.34	+ .10	46	44	0	NW	2	om	6	49	43	-													
Prawle Point ...	29.37	44	NE	4	o	29.34	+ .06	42	41	- 4	NW	2	bcm	2	47	36	0.03													
Jersey ...	29.30	47	ENE	3	ogrm	29.33	+ .08	47	46	+ 3	Z	0	cm	0	49	44	0.13													
FRANCE & NETHERLANDS.																														
Hurst Castle ...	29.37	47	ESE	3	o	29.33	- .01	46	45	+ 2	SSE	2	rm	1	53	43	0.14													
Dungeness ...	29.37	46	ESE	4	m	29.36	- .02	45	44	0	ESE	4	m	3	53	43	-													
London ...	29.41	49	ENE	2	b	29.38	00	45	43	+ 4	ESE	2	o	*	55	41	0.01													
Oxford ...	29.43	44	NE	2	o	29.36	- .03	42	42	+ 4	NE	2	o	*	50	38	0.04													
Cambridge ...	29.46	47	E	1	c	29.41	00	45	44	+ 7	E	1	o	*	50	35	-													
PORTUGAL.																														
Yarmouth ...	29.43	42	SE	3	bc	29.44	+ .02	44	40	+ 3	E	5	ogf	4	44	39	-													
Cuxhaven ...	29.62	38	E	5	c	29.61	- .01	36	35	- 3	E	4	o	*	41	35	-													
Berlin ...	29.62	42	ESE	4	o	29.58	- .02	39	37	- 1	ENE	1	o	*	45	37	-													
Wiesbaden ...	*	*	*	*	*	29.45	- .02	48	44	+ 2	NE	3	o	*	55	46	-													
Munich ...	29.46	40	SE	1	b	29.45	- .03	39	32	- 7	E	3	f	*	50	28	-													
SPAIN.																														
The Helder ...	29.51	43	E	1	b	29.52	+ .06	39	38	0	E	2	m	3	46	39	0.20													
Brussels 9.A.M.	*	*	*	*	*	29.41	- .04	42	41	- 2	ENE	1	c	*	53	39	-													
Cape Gris Nez...	?	47	NE	5	b	?	?	46	42	+ 7	SSE	3	bc	2	54	39	0.08													
Paris ...	29.36	51	E	2	o	29.40	- .01	44	42	+ 6	E	1	o*	*	55	?	-													
Brest ...	? 29.34	48	ENE	2	o	? 29.42	+ .23	46	44	+ 1	WSW	3	o	5	52	39	0.16													
Lorient ...	29.23	54	WSW	2	bc	29.38	+ .28	45	44	0	NW	3	o	6	59	43	0.04													
Rocheport ...	29.32	53	SW	3	c	29.42	+ .14	46	46	0	W	2	f	2	57	39	-													
Belfort ...	29.47	44	V	1	b	29.39	- .07	45	41	+ 2	E	1	b	*	55	32	-													
Lyon ...	29.36	51	E	1	c	29.36	- .12	46	44	+ 7	NW	1	c	*	54	?	-													
Nice ...	29.48	48	E	2	o	29.25	- .24	50	43	+ 5	E	6	o	7	57	43	0.12													
Perpignan ...	29.20	57	W	1	o	29.40	- .02	49	45	+ 2	NW	3	c	*	62	45	-													
Barri ...	? 29.33	49	W	4	r	? 29.45	+ .19	50	47	- 1	NW	7	ogf	7	55	43	1.06													
ITALY.																														
Cerana ...	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*													
Lisbon ...	29.86	53	NW	5	o	29.91	+ .21	53	49	- 2	W	4	b	6	59	48	0.04													

For Explanation of Columns, see p. 4.

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

WEATHER CHARTS

for 8 a.m. on Monday, 8th April.

1889.

BAROMETER, WIND & SEA.

(Explanation of Map)

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

Sea Disturbance — where considerable, is shown thus.

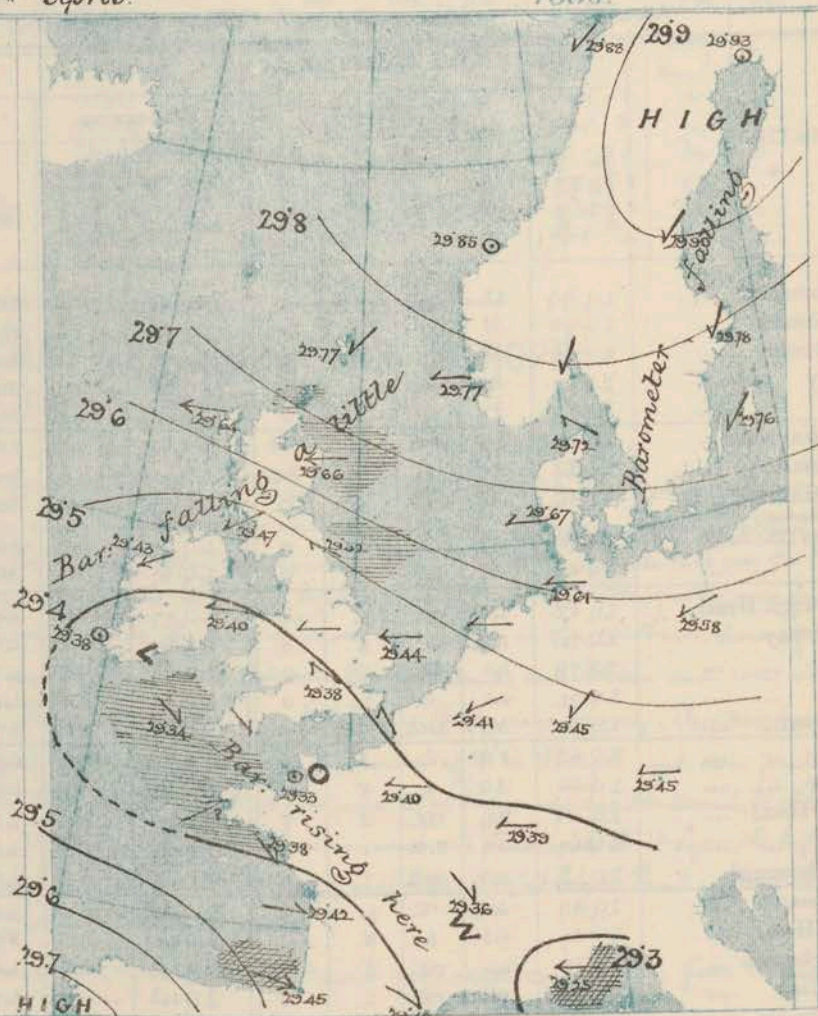
— Rough — High.

MEAN HEIGHT of the BAROMETER

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

During the 15 Years 1871–1885.

STATIONS.	MEAN READINGS.
Sumburgh Head	29.849
Stornoway	29.821
Wick	29.853
Nairn	29.853
Aberdeen	29.862
Leith	29.865
Shields	29.870
York	29.877
Loughborough	29.878
Ardrossan	29.857
Donaghadee	29.858
Holyhead	29.851
Liverpool	29.864
Parsonstown	29.853
Valencia	29.835
Roche's Point	29.838
Pembroke	29.844
Scilly	29.849
Jersey	29.867
Hurst Castle	29.867
Dover	29.866
LONDON	29.877
Oxford	29.882
Cambridge	29.879
Yarmouth	29.870



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.

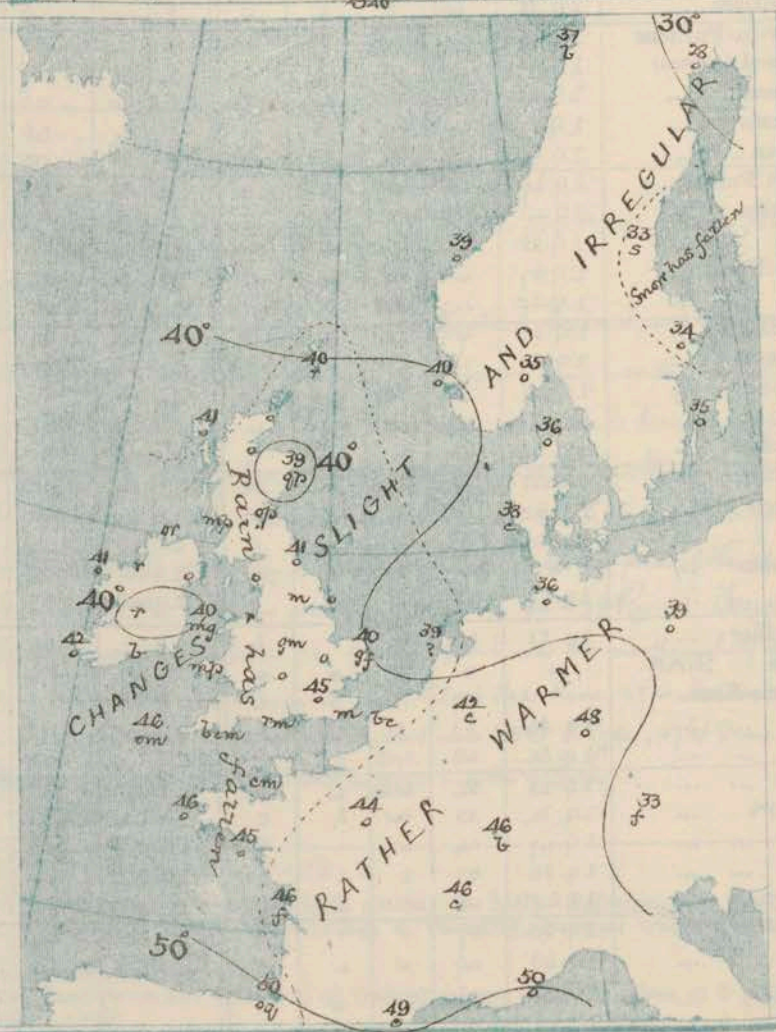
MEANS OF TEMPERATURE IN SHADE.

AND RAINFALL.

for the month of April.

STATIONS.	TEMPERATURE.				RAINFALL. (Inches)
	Daily Max.	Daily Min.	at 8 a.m. Dry	Wet	
Sumburgh Head	46.3	37.3	41.9	40.5	2.16
Stornoway	49.3	37.5	44.1	42.3	2.51
Wick	40.2	37.4	43.2	41.2	1.56
Nairn	51.5	37.9	43.1	40.6	1.23
Aberdeen	40.6	38.5	43.4	40.9	2.23
Leith	52.6	38.2	44.2	42.1	1.65
Shields	49.2	39.2	43.8	41.7	1.94
York	54.1	37.8	44.1	42.0	1.86
Loughborough	55.7	38.8	45.1	42.6	1.77
Ardrossan	52.1	39.9	44.6	43.2	2.23
Donaghadee	61.3	40.1	44.8	43.2	2.02
Holyhead	51.9	42.4	46.2	44.2	1.86
Liverpool	53.0	40.7	45.5	42.6	1.56
Parsonstown	55.0	38.3	45.7	43.0	2.15
Valencia	54.3	42.9	48.4	45.9	4.01
Roche's Point	54.2	42.4	47.0	44.9	3.43
Pembroke	50.8	42.1	45.6	43.6	2.10
Scilly	52.5	45.0	49.0	47.1	2.45
Jersey	54.6	43.6	49.0	46.4	2.04
Hurst Castle	52.3	41.4	45.9	44.6	1.87
Dover	51.5	42.4	47.1	44.5	1.81
LONDON	55.7	40.0	49.8	43.8	1.86
Oxford	55.1	39.3	45.0	42.7	1.79
Cambridge	56.2	37.7	45.5	43.3	1.76
Yarmouth	49.5	40.4	45.1	43.4	1.80

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



GENERAL SITUATION AT 8 A.M.

PRESSURE

Highest, 29.8 ins. to 29.9 ins. and more, both over the northern half of Scandinavia and the southern parts of Spain.
Lowest, 29.3 ins. and less, over the Gulf of Genoa, 29.4 ins. and less, over the southern half of our Islands and Brittany.
Gradients rather steep (for W. winds) over Spain, moderate (for E. winds) over all the northern half of our area.
Barometer falling a little in the north and northwest, rising over Spain and the southwest of France.

TEMPERATURE

Highest, 53° at Lisbon, 50° at Nice and Biarritz, 46° at Lyons and Brest, and 45° in London.
Lowest, 28° at Haparanda, 33° at Munch, 34° at Stockholm, 36° at the Scaw and Cuxhaven, 39° at Aberdeen, the Hebrides and Berlin.
It is considerably below the average at our northern and eastern stations, but not in the southwest of England.

WIND

E³ (NE to SE.) over the Baltic, Germany, North Sea and British Isles.
W² over Spain and the southwest of France. Light and variable over the southwest of our Islands and the Channel.
The easterly gale fell in the northeast of Scotland yesterday morning has died down.

WEATHER

Very cloudy almost everywhere, with showers in many places, and snow at Haparanda.
Rain fell steadily yesterday over our northeastern counties and showers in several places.
Heavy rain fell in the southwest of France.

SEA

Rough on our northeast coasts, over the Bay of Biscay and on the Portuguese coast, high at Binnity and also at Nice.

PROBABLE CHANGES IN SYSTEM NOW PREVALENT

There is no definite indication of any important change at present.

FORECASTS

for the 24 hours ending at NOON on 9th APRIL 1889.

DISTRICTS.

FORECASTS.

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

SE and E² winds, fresh; showery.

SE² and E² winds, light to fresh; cloudy, some local showers.

DISTRICTS.

FORECASTS.

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

E² breezes, moderate; rain at times.


NW² and Variable airs, dull, some showers.


Same as Nos 6 and 7.

Same as No 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.	Dry.	Wet.	Wind.	Woa.	Sea.		Bar.	Dry.	Wet.	Wind.	Woa.	Sea.
Skudeanaes ...	29.84	49	37	SS E 2	6c	2	Holyhead ...	29.45	43	41	E N E 5	rgm	5
Sumburgh Head ...							Valencia ...						
Stornoway ...	29.72	44	43	SE 4	0	4	Scilly ...						
Aberdeen ...							Jersey ...	29.28	48	45	E 4	0	3
Shields ...							Dungeness ...	29.37	50	46	ESE 4	m	3
Ardrossan ...							London ...						*
Malin Head ...	29.58	44	41	E 4	0	3	Yarmouth ...						
Mullaghmore ...							Rocheport ...	29.27	52	50	SS E 4	0	2
Belmullet ...	29.57	48	44	E N E 3	0	*							

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

The reports for yesterday morning showed that pressure ranged from between 30.1 ins. and 30.3 ins. over central and northern Russia, and from 29.9 ins. and more over Algeria and the Straits of Gibraltar on the one hand, and over the northern half of Scandinavia on the other, to 29.10 ins. and less, in a well-marked depression, the centre of which had advanced to the Bay of Biscay during the previous night, and to 29.5 ins. and less over France and south Germany. Thus, while E. winds prevailed over the Baltic, the North Sea and British Isles, and were strong to a gale in force at many stations, S. winds were felt over France and the Bay of Biscay, S.W. to W. gales over Spain and Portugal, variable airs over central Europe, and S. to SE. breezes over Russia. The weather, though bright and clear in some places, was changeable as a whole; showers of sleet and rain fell over the northern parts of our Islands, much rain in Spain and the southwest of France, fog and rain in various parts of Austria, and much cloud in most countries. Temperature was below the freezing point in Finland and the north of Russia, and some parts of Sweden only; the lowest morning readings were 29° at Archangel, 28° at Uleaborg, 30° at Helsingfors, 33° at Moscow and St. Petersburg, 34° at Kuopio, Helsingfors and Uleaborg, 36° at Bröcklau and Fano, 39° at Lyons, the Helder and Aberdeen. The highest were 60° at Oran and Algiers, 59° at La Calle, 54° at Brindisi, 56° at Malta, 55° at Palermo, Barcelona and Lisbon, 53° at Sanquaire, 51° at Biarritz, 49° at Valencia, and 46° at Scilly. Little change occurred in our Islands later.

SUMMARY OF CHANGES IN THE WEATHER OVER THE BRITISH ISLANDS AND THEIR NEIGHBOURHOOD FROM THE 31ST MAR. TO THE 6TH APR. 1889.

The weather during this week was of a somewhat changeable character; the barometer has been generally highest off our west or southwest coasts, and two well marked depressions have travelled over our area, one in a southerly, the other in a southeasterly direction; the first passed across the southwest of Norway and down the eastern shores of the North Sea between the 1st and 3rd, the second reached our northwestern coasts early on the 3rd, and travelling across the northeast of Ireland, Wales and the southwest of England, reached the English Channel on Friday the 5th and dispersed over France on the following morning. Late on Saturday evening there were indications that a new system was approaching Ireland. The wind was at first NW. everywhere, but shifted to S. and SE. on our east and northeast coasts as the second depression advanced, although it varied between SW. and NW. at our western and southwestern stations; finally, as the disturbance reached France it shifted to the eastward (SE. to NE.) very generally, and on Saturday night was beginning to increase in strength at some northern stations. Temperature has not differed much from its average value in April. Showers of rain have occurred frequently, with snow and sleet at times, thunderstorms were prevalent over the southern half of England on Friday, and at the close of the week the weather appeared to be again becoming rough in the northwest and north.

EXPLANATION OF COLUMNS GIVEN ON PAGE 1.

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

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

† The evening observations are taken at 6 p.m. in France and our Islands with the exception of Oxford, where they are taken at 8 p.m. In Sweden and Denmark, the observations are taken at 3 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, 9th April 1889.
Issued by the Meteorological Office 63 Victoria Street, London. R.H. SCOTT, Secretary.

STATIONS.	+ YESTERDAY EVENING.						6 A.M. TO DAY.										PAST 24 HOURS.		
	Barometer at 32° F. and Sea Level.	Temp. in Shade.	WIND.		Weather.	BAROMETER.		SHADE TEMP.			WIND.		Sea. (0 to 9.)	SHADE TEMP.		Amount of Rainfall.			
			Dir.	Force. (0 to 12.)		Reading at 32° F. and Sea Level.	Difference from 8 a.m. yesterday.	Dry.	Wet.	Difference from 8 a.m. yesterday.	Dir.	Force. (0 to 12.)		Max.	Min.				
SCANDINAVIA.																			
Haparanda ..	29.91	30	Z	0	bc	29.91	-0.02	34	32	+6	N	2	0	*	41	25	-		
Hernösand ...	29.90	33	NE	2	S	29.94	+0.04	37	35	+4	Z	0	0	*	37	30	0.04		
Stockholm ...	29.77	33	NE	4	0	29.75	-0.00	35	34	+1	E	4	0	*	41	30	-		
Wisby ...	29.79	35	Z	0	0	29.82	+0.06	31	30	-4	NNE	2	0	*	41	32	-		
Bodo ...	29.92	36	Z	0	b	29.95	+0.07	33	31	-4	ESE	2	6	1	39	27	-		
Christiansund...	29.76	39	NE	4	b	29.74	-0.11	37	35	-2	ESE	3	6	2	43	30	-		
Skudesnaes ...	29.75	38	NW	2	0	29.75	-0.02	38	36	-2	Z	0	0	4	41	36	-		
Christiania Fjord (Farder)	29.76	38	N	2	0	29.78	-0.02	36	35	+1	NE	3	0	1	?	?	-		
Skagen (The Scaw)	29.73	37	E	2	0	29.71	-0.01	37	34	+1	ESE	3	0	2	46	36	-		
Fanö ...	29.62	37	E	4	c	29.60	-0.07	35	34	-3	ESE	6	0	*	39	?	-		
BRITISH ISLANDS.																			
Sumburgh Head	29.74	41	ESE	2	bc	29.71	-0.06	37	36	-3	ESE	1	c	3	44	34	-		
Stornoway ...	29.60	44	E	5	c	29.62	-0.02	41	40	0	E	5	c	5	46	36	-		
Wick ...	29.68	40	SE	4	0	29.67	-0.01	43	42	+2	SE	3	c	3	43	36	0.03		
Nairn ...	29.60	42	E	2	0	29.62	+0.01	39	37	-1	E	1	b	1	43	36	0.02		
Aberdeen...	29.63	38	ESE	4	0	29.65	-0.01	40	37	+1	E	4	cq	5	42	37	0.04		
Leith ...	29.53	41	E	3	0	29.56	+0.02	40	38	-2	E	4	op	*	42	35	0.02		
Shields ...	29.50	40	E	3	0	29.53	+0.01	40	38	-1	ESE	2	0	4	41	36	0.04		
Spurn Head ...	29.40	41	ESE	6	0	29.44	-0.03	41	?	0	ESE	5	0	5	42	39	-		
York ...	29.42	41	E	2	0	29.46	-0.01	40	38	-1	ESE	1	0	*	44	38	-		
Loughborough	29.36	43	ESE	2	0	29.40	-0.03	40	40	-1	NE	3	rq	*	52	39	0.10		
Ardrossan ...	29.46	43	ESE	3	0	29.52	+0.05	42	40	+1	ESE	5	bm	2	49	35	-		
Malin Head ...	29.37	42	ESE	5	ogr	29.43	-0.01	40	38	+1	ESE	6	bc	4	44	38	0.14		
Mullaghmore ...	29.36	42	ESE	5	?	29.41	-0.02	39	38	-1	E	6	ogr	4	45	37	0.17		
Belmullet ...	29.35	44	E	3	0	29.39	-0.04	40	39	-1	E	4	0	*	46	38	0.10		
Donaghadee ...	29.38	44	E	5	0	29.46	+0.02	40	39	-1	E	7	0	5	44	38	0.26		
Barrow-in-Furness	29.38	43	NE	6	0	29.41	-0.03	40	38	+1	NE	4	0	*	44	38	0.01		
Liverpool (Bidston)	29.32	43	E	5	0	29.41	-0.02	39	38	+2	E	6	0	4	47	37	0.07		
Holyhead ...	29.30	42	E	1	r	29.40	-0.00	40	40	0	E	4	gm	4	43	36	?		
Parsonstown ...	29.32	45	NE	1	bc	29.40	-0.01	33	32	-5	Z	0	0	*	48	36	-		
Valencia ...	29.32	47	N	2	cm	29.39	+0.01	44	42	+2	Z	0	c	1	53	36	-		
Roche's Point...	29.31	45	SE	1	cp	29.39	+0.03	43	40	0	NW	2	b	3	44	39	0.25		
Pembroke ...	29.26	44	NW	2	c	29.35	-0.01	45	44	+4	NW	2	c	2	47	39	-		
Scilly ...	29.22	47	NW	2	cm	29.39	+0.05	47	43	+1	NW	2	cm	3	50	43	-		
Prawle Point ...	29.23	45	WSW	1	b	29.34	-0.00	43	41	+1	NW	3	bc	2	48	36	-		
Jersey ...	29.22	48	NW	2	ou	29.32	-0.01	48	46	+1	NW	2	om	2	51	45	-		
Hurst Castle ...	29.24	47	SE	2	cp	29.31	-0.02	46	46	0	NE	2	op	1	51	45	0.14		
Dungeness ...	29.26	47	ESE	3	m	29.27	-0.09	45	45	0	E	3	r	2	52	44	0.10		
London ...	29.28	49	E	3	bc	29.33	-0.05	44	43	-1	E	2	ogd	*	56	44	0.04		
Oxford ...	29.28	46	E	3	0	29.36	-0.00	42	41	0	NE	2	gp	*	51	41	0.30		
Cambridge ...	29.31	45	E	2	0	29.38	-0.03	42	42	-3	E	1	0	*	56	40	-		
Yarmouth ...	29.37	42	E	5	cq	29.39	-0.05	41	40	+1	E	4	cq	5	42	38	0.01		
Cuxhaven ...	29.56	38	E	4	0	29.52	-0.09	38	37	+2	E	5	bc	*	40	?	-		
Berlin ...	29.55	42	NE	3	0	29.49	-0.09	40	39	+1	NE	4	0	*	43	39	-		
Wiesbaden ...	*	*	*	*	*	29.34	-0.11	47	44	-1	NE	2	0	*	57	43	-		
Munich ...	29.35	43	E	2	b	29.27	-0.18	36	36	+3	E	4	f	*	52	30	-		
FRANCE & NETHERLANDS.																			
The Helder ...	29.42	42	ESE	3	b	29.43	-0.09	40	39	+1	E	2	c	3	46	39	-		
Brussels 9 AM...	*	*	*	*	*	29.32	-0.09	42	41	0	ESE	1	0	*	59	39	0.04		
Cape Gris Nez...	?	53	ESE	3	0	?	?	46	44	0	NE	3	r	2	59	45	0.08		
Paris ...	29.27	52	SE	1	c	29.27	-0.13	45	44	+1	NW	1	m	*	61	42	0.08		
Brest ...	29.26	49	N	2	0	29.42	-0.00	47	45	+1	NW	3	0	3	52	41	-		
Lorient ...	29.18	48	S	2	c	29.35	-0.03	46	44	+1	NW	4	c	4	54	43	-		
Rochefort ...	29.29	50	S	3	0	29.34	-0.08	49	47	+3	NW	4	0	2	55	41	0.08		
Belfort ...	29.32	58	E	1	0	29.28	-0.11	48	44	+3	E	1	b	*	64	37	-		
Lyons ...	29.33	49	W	1	0	29.26	-0.10	41	40	-5	N	2	b	*	58	39	-		
Nice ...	29.32	49	SSW	2	bc	29.25	-0.00	45	44	-5	?	1	bc	3	54	45	0.01		
Perpignan ...	29.38	55	S	3	0	29.22	-0.18	49	46	0	NE	3	0	*	62	46	-		
Biarritz ...	?	52	S	3	r	29.38	-0.07	50	47	0	NW	8	r	8	55	46	0.43		
PENINSULA.																			
Corunna ...	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	-	
Lisbon ...	29.84	55	NW	5	bc	29.97	+0.06	52	44	-1	NW	4	b	4	59	48	0.12		

For Explanation of Columns, see p. 4.

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

WEATHER CHARTS

for 8 a.m. on Tuesday, 9th April

1889.

BAROMETER, WIND & 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 beaks and feathers refer to force thus—

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

Sea Disturbance—where considerable is shown thus.

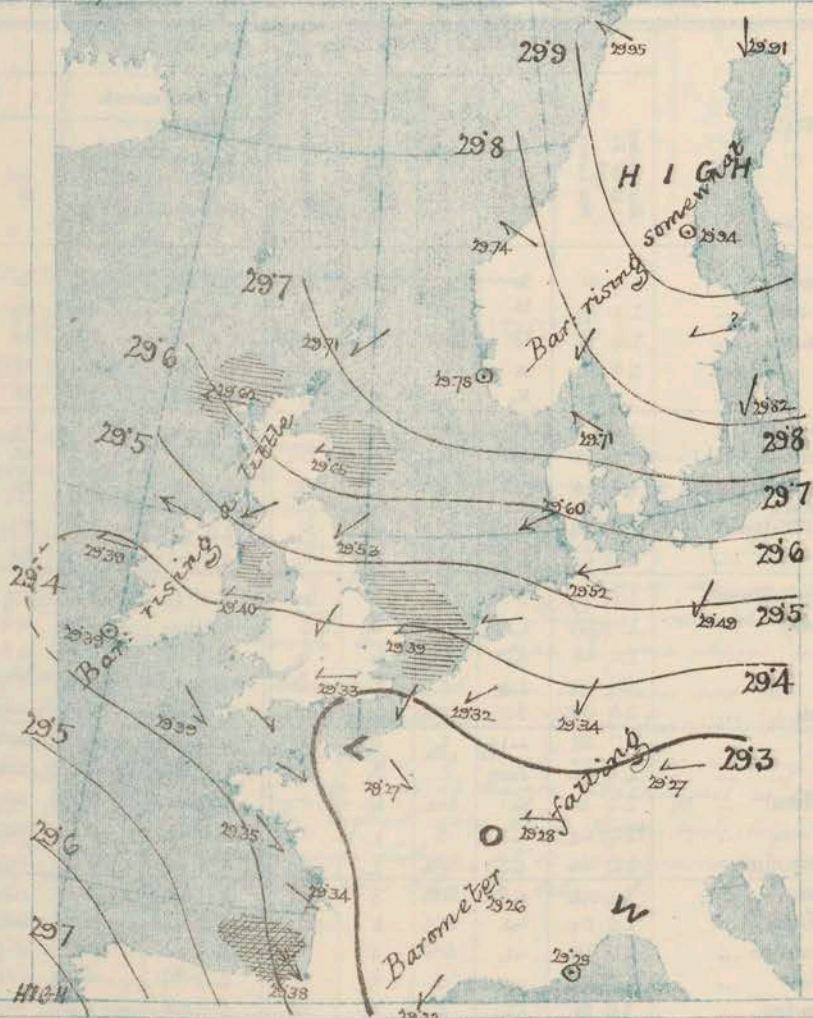
■ = Rough; ■ = High.

MEAN HEIGHT of the BAROMETER

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

During the 15 Years 1871—1885.

STATIONS.	MEAN READINGS.
Sumburgh Head	29.849
Stornoway	29.821
Wick	29.863
Nairn	29.853
Aberdeen	29.862
Leith	29.865
Shields	29.870
York	29.877
Loughborough	29.878
Ardrossan	29.857
Donaghadee	29.853
Holyhead	29.861
Liverpool	29.864
Parsonstown	29.853
Valencia	29.835
Roche's Point	29.838
Pembroke	29.844
Scilly	29.849
Jersey	29.867
Hurst Castle	29.867
Dover	29.866
LONDON	29.877
Oxford	29.882
Cambridge	29.879
Yarmouth	29.876



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.

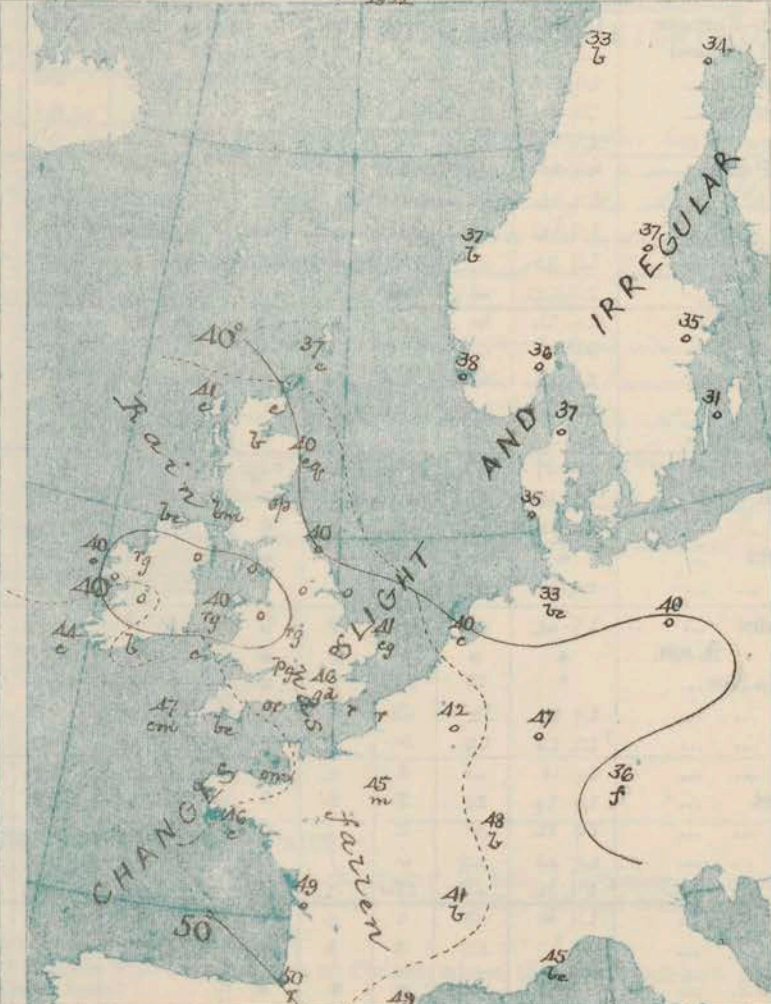
MEANS OF TEMPERATURE IN SHADE.

AND RAINFALL.

for the month of April.

STATIONS.	TEMPERATURE.				RAINFALL. (Inches)
	Daily Max.	Daily Min.	at 8 a.m.		
			Dry.	Wet.	
Sumburgh Head.....	46.3	37.3	41.9	40.5	2.16
Stornoway.....	49.3	37.5	44.1	42.3	2.51
Wick.....	49.2	37.4	43.2	41.2	1.56
Nairn.....	51.5	37.9	43.1	40.6	1.23
Aberdeen.....	49.8	38.5	43.4	40.2	2.23
Leith.....	52.6	38.2	44.2	42.1	1.65
Shields.....	49.2	39.2	43.3	41.7	1.94
York.....	54.1	37.8	44.1	42.0	1.86
Loughborough.....	55.7	38.3	45.1	42.6	1.77
Ardrossan.....	52.1	39.9	44.6	42.2	2.23
Donaghadee.....	51.3	40.1	44.8	43.2	2.02
Holyhead.....	51.9	42.4	45.2	44.2	1.86
Liverpool.....	53.0	40.7	45.5	42.6	1.56
Parsonstown.....	55.0	38.3	45.7	43.0	2.15
Valencia.....	54.3	42.9	45.4	45.9	4.01
Roche's Point.....	54.2	42.4	47.0	44.9	3.43
Pembroke.....	50.8	42.1	45.6	43.6	2.10
Scilly.....	52.5	45.0	49.0	47.1	2.45
Jersey.....	54.6	43.6	49.0	46.4	2.04
Hurst Castle.....	52.3	41.4	45.9	44.6	1.87
Dover.....	51.5	42.4	47.1	44.5	1.81
LONDON.....	58.7	40.0	48.8	48.8	1.86
Oxford.....	55.1	39.3	45.0	42.7	1.79
Cambridge.....	56.2	37.7	45.5	43.2	1.76
Yarmouth.....	49.5	40.4	45.1	43.4	1.80

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



GENERAL SITUATION AT 8 A.M.

PRESSURE

Highest, 29.7 ins: to 29.9 ins: over Scandinavia and the Baltic — and also over the southwestern half of Spain.
Lowest, 29.3 ins: and less, over France and Switzerland, 29.4 ins: and less, over the coast of England and southern half of Ireland.
Gradients moderate to slight. Barometer changing little and irregularly.

TEMPERATURE

Highest, 52° at Linton, 50° at Biarritz, 48° at Brest, 47° at Mersbaden, Brest, and Sully.
Lowest, 33° at Bodo and also at Paimpol, 34° at Haparanda, 36° at Helsingfors, 37° at Leningrad, 39° at St. Petersburg, and 40° at Altona.
In London the temperature was 44°, at Paris and Nice 45°.

WIND

E² over the northern half of our area — NE² in Germany.
NW² in the SW. of our Islands, the west of France and in Spain. Variable over France.
A NW gale still holds at Biarritz — and the E² wind is strong in several places.

WEATHER

Fine in Norway and the north of Scotland as well as in the southeast of France.
Cloudy and unsettled elsewhere, with rain in several parts of our Islands and at Biarritz.
The amount of rainfall since yesterday morning, exceeded 0.4 ins: at Biarritz and West Castle only.

SEA

Still very high at Biarritz, rather rough on our north and east coasts, moderate at our western stations, slight in the Channel.

PROBABLE CHANGES IN SYSTEM NOW PREVALENT

There is no indication of any important change at present.

FORECASTS

for the 24 hours ending at NOON on 10th APRIL 1889.

DISTRICTS.

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

FORECASTS.

E² winds, moderate to strong; squally, rainy.
E² and Varying winds, light; rainy, changeable.

DISTRICTS.

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

WARNINGS

FORECASTS.



Same as Nos 0 to 2.

Varying light winds, changeable, rain at times.

Same as Nos 0 to 2.

Same as No 8.

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.	Dry.	Wet.	Wind.	Wea.	Sea.		Bar.	Dry.	Wet.	Wind.	Wea.	Sea.
Skudesnaes ...	29.78	41	39	w 2	o	3	Holyhead ...	29.33	40	39	ē 1	d m	2
Sumburgh Head ...	29.76	41	38	se 1	b	3	Valencia ...	29.32	48	43	SE 2	cm	2
Stornoway ...	29.62	40	39	E 5	c	5	Scilly ...	29.25	48	45	rtw 1	o m	4
Aberdeen ...	29.64	40	39	ESE 5	oq	6	Jersey ...	29.29	49	46	wrtw 2	c	2
Shields ...	29.52	41	39	ESE 4	o	5	Dungeness ...	29.33	49	46	SE 3	m	2
Ardrossan ...	29.46	48	45	ESE 4	o	2	London ...	29.32	52	46	E 4	o	*
Malin Head ...	29.40	42	40	ESE 4	o	3	Yarmouth ...	29.42	42	41	E 4	cm	4
Mullaghmore ...	29.37	45	42	E 5	o q m	4	Rocheport ...	29.43	51	49	w 4	c	2
Belmullet ...	29.37	43	41	E 2	op	*							

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

Yesterday morning's reports showed that pressure continued relatively high over Russia and the north of Sweden, on the one hand, and over Spain on the other, the two high-pressure systems being separated by an irregular zone of low-pressure, extending from our Islands across Central Europe to the Mediterranean, and having in it a well defined minimum, which lay a little to the southwest of London. The prevailing winds were still NE^{ly} and E^{ly} over the northern half of Europe and W^{ly} over Spain. Over the Mediterranean there was a complete cyclonic circulation of strong winds and gales round the depression mentioned above, while over Central Europe the wind was light and variable. Weather was changeable and showery over the British Isles dull and rainy at many of the Mediterranean stations, cloudy generally, with snow in the Gulf of Finland. Temperature remained below the freezing-point in Eastern Lapland and the north of Russia only, but was (locally) not much above it at Munich. It was changing little and irregularly over the British Isles, rising over Central Europe. The lowest individual values were 28° at Napananda, 29° at Archangel, 33° at Helsingfors and Munich, 34° at Stockholm, Helsingfors, and Moscow, 35° at St Petersburg, London, Wiesbaden, and Lüneburg, 36° at Mennel, Breslau and Copenhagen, 39° at Berlin, Christiansund, and Aberdeen; the highest were 63° at Vof, 60° at Palermo, 59° at Malta and several of the Algerian stations, 58° at Brindisi, 54° at Constantinople, 53° at Lisbon, Barcelona and Genoa, 50° at Biarritz and Nice, 46° at Seville and Brest, and 45° at Odessa and Nicolavoff.

Later in the day the low pressure area began to grow deeper over the southwest of England, and showery weather became more general over the British Isles.

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 10th April 1889.

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

STATIONS.	† YESTERDAY EVENING.						8 A.M. TO DAY.										PAST 24 HOURS.		
	Barometer at 32° F. and Sea Level.	Temp. in Shade.	WIND.		Weather.	BAROMETER.		SHADE TEMP.			WIND.		Weather.	Sea. (0 to 9.)	SHADE TEMP.		AVERAGE if avail.		
			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 ..	29.09	25	N	2	B	29.20	+1.11	21	19	-12	Z	0	B	*	37	2	—		
Hernösand ...	29.02	26	Z	0	C	29.12	+1.10	32	29	-5	NE	4	C	*	45	32	—		
Stockholm ...	29.54	32	NNE	2	0	29.93	+1.39	37	34	+2	NE	2	B	*	45	30	—		
Wisby ...	29.81	33	E	4	0	29.82	0.0	37	35	+6	E	4	0	*	39	28	—		
Bodö ...																			
Christiansund...	29.79	38	Z	0	0	29.82	+1.03	41	37	+2	Z	0	0	2	?	37	—		
Skudesnaes ...	29.84	39	E	2	0	29.91	+1.07	36	35	0	NNE	5	0	1	39	34	—		
Christiania Fjord (Færder)	29.78	38	E	1	0	29.83	+1.05	36	34	-1	E	3	0	2	45	34	—		
Skagen (The Scaw)	29.65	37	E	6	0	29.69	+1.04	36	35	+1	E	6	0	*	43	34	—		
Fanö ...																			
Sumburgh Head	29.68	39	Z	0	0	29.71	0.0	37	36	0	E	1	2	2	44	33	0.14		
Stornoway ..	29.65	43	E	4	bc	29.68	+1.03	34	33	-7	Z	0	0	2	45	31	—		
Wick ...	29.66	39	E	1	B	29.69	+1.03	38	37	-5	NW	2	bc	2	49	32	0.02		
Nairn ...	29.62	43	E	1	C	29.67	+1.05	35	34	-4	Z	0	B	1	45	25	—		
Aberdeen...	29.65	38	ESE	3	C	29.69	+1.04	38	37	-2	N	2	bc	4	44	35	0.05		
Leith ...	29.58	42	E	2	0	29.60	+1.02	40	38	0	E	4	2	*	44	37	0.03		
Shields ...	29.55	40	ENE	2	o	29.59	+1.04	40	39	0	E	2	o	2	44	37	0.02		
Spurn Head ...	29.48	42	E	5	0	29.53	+1.05	42	42	+1	ENE	4	0	4	43	39	—		
York ...	29.46	43	ENE	1	0	29.53	+1.07	42	41	+2	E	1	0	*	44	38	0.02		
Loughborough	29.44	42	ENE	2	bc	29.52	+1.08	41	40	+1	ENE	1	ogm	*	43	39	0.03		
Ardrossan ...	29.53	42	ENE	4	0	29.59	+1.06	39	39	-3	ENE	3	2m	2	47	37	0.01		
Malin Head ...	29.49	44	E	5	cm	29.57	+1.08	40	39	0	ENE	4	os	3	46	39	—		
Mullaghmore...	29.46	41	E	5	cm	29.55	+1.09	40	39	+1	ENE	5	20	4	43	38	0.21		
Belmullet ...	29.43	43	E	3	C	29.54	+1.11	41	40	+1	ENE	3	0	*	43	39	0.01		
Donaghadee ...	29.49	46	E	4	C	29.55	+1.06	42	41	+2	E	4	0	3	47	39	0.03		
Barrow-in-Furness	29.47	44	NE	3	0	29.54	+1.07	40	39	0	NE	2	bc	*	48	39	0.09		
Liverpool (Bidston)	29.45	42	E	3	bc	29.53	+1.08	40	39	+1	ENE	2	0	3	42	38	0.30		
Holyhead ...	29.43	40	E	3	mdg	29.50	+1.07	42	42	+2	E	2	cm	2	42	39	0.41		
Parsonstown ...	29.42	46	NE	1	0	29.50	+1.08	42	41	+9	Z	0	0	*	52	32	—		
Valencia ...	29.39	50	SW	1	cm	29.48	+1.09	49	45	+5	?	2	bc	1	53	38	—		
Roche's Point...	29.41	46	WNW	2	bc	29.48	+1.07	46	43	+3	ENE	3	bc	3	50	38	0.20		
Pembroke ...	29.42	45	NW	2	bc	29.48	+1.06	40	40	-5	NE	1	bc	2	47	37	—		
Scilly ...	29.42	50	WNW	1	bc	29.40	+1.01	47	45	0	ENE	5	bc	6	53	43	0.01		
Frawle Point ...	29.44	48	W	3	bc	29.47	+1.03	47	45	+4	NE	3	cm	2	53	37	—		
Jersey ...	29.45	48	WNW	3	og	29.50	+1.05	46	44	-2	SW	3	ogw	3	50	39	—		
Hurst Castle ...	29.40	47	WNW	2	m	29.49	+1.09	43	43	-3	WNW	2	no	2	50	39	0.04		
Dungeness ...	29.38	45	E	4	0	29.47	+1.09	43	42	-2	NNE	1	bc	0	51	38	0.02		
London ...	29.42	45	SE	3	od	29.49	+1.07	41	41	-3	ENE	1	bc	*	49	41	0.30		
Oxford ...	29.43	45	SE	2	bc	29.50	+1.07	41	40	-1	ENE	1	0	*	46	40	0.58		
Cambridge ...	29.45	45	E	1	0	29.51	+1.06	43	42	+1	NE	1	0	*	50	38	0.04		
Yarmouth ...	29.45	43	ENE	3	bc	29.49	+1.04	42	41	+1	ENE	3	cm	4	44	39	—		
Cuxhaven ...	29.52	39	ENE	5	0	29.60	+1.08	38	37	0	E	4	bc	*	44	35	0.02		
Berlin ...	29.54	43	NE	2	0	29.62	+1.08	39	39	-1	NNE	2	0	*	45	37	—		
Wiesbaden ...	*	*	*	*	*	29.58	+1.04	46	44	-1	NE	1	C	*	53	45	—		
Munich ...	29.39	47	Z	0	B	29.56	+1.17	46	43	+10	W	4	0	*	57	36	—		
GERMANY.																			
The Helder ...	29.47	44	ENE	2	B	29.53	+1.06	41	38	+1	E	2	C	3	45	39	—		
Brussels ...	29.49	*	*	*	*	29.49	+1.17	47	47	+5	SW	1	m	*	59	?	0.04		
Cape Gris Nez...	?	44	ENE	3	C	?	?	42	42	-4	N	1	bc	1	52	41	0.12		
Paris ...	29.39	53	NNE	2	bc	29.58	+1.19	45	43	0	SW	2	bc	*	64	44	0.32		
Brest ...	29.55	50	S	1	0	29.54	+1.12	45	44	-2	SW	1	bc	5	52	41	—		
Lorient ...	29.49	50	W	4	bc	29.53	+1.04	48	44	+2	SW	3	C	5	52	45	—		
Rochefort ...	29.62	51	WNW	6	B	29.67	+1.05	48	46	-1	WNW	4	bc	2	53	46	—		
Belfort ...																			
Lyons ...	29.44	53	W	1	C	29.71	+1.27	44	40	+3	S	1	bc	*	60	39	0.12		
Nice ...	29.42	50	SW	3	bc	29.52	+1.10	51	45	+6	ENE	2	bc	?	59	?	—		
Perpignan ...	29.60	54	NW	4	B	29.70	+1.10	51	45	+2	Z	0	bc	*	60	45	—		
Biarritz ...	29.71	51	W	6	C	29.69	+1.31	47	42	-3	S	3	bc	5	54	43	0.16		
FRANCE & NETHERLANDS.																			
Corunna ...	*	*	*	*	*														
Lisbon ...	29.00	51	WNW	2	B	29.90	-0.07	53	49	+1	SW	4	0	3	57	48	—		

WEATHER CHARTS

for 8 a.m. on

WEDNESDAY, 10th April.

1889.

BAROMETER, WIND & SEA.

(Explanation of Map)

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

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

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

Sea Disturbance — where considerable, is shown thus.

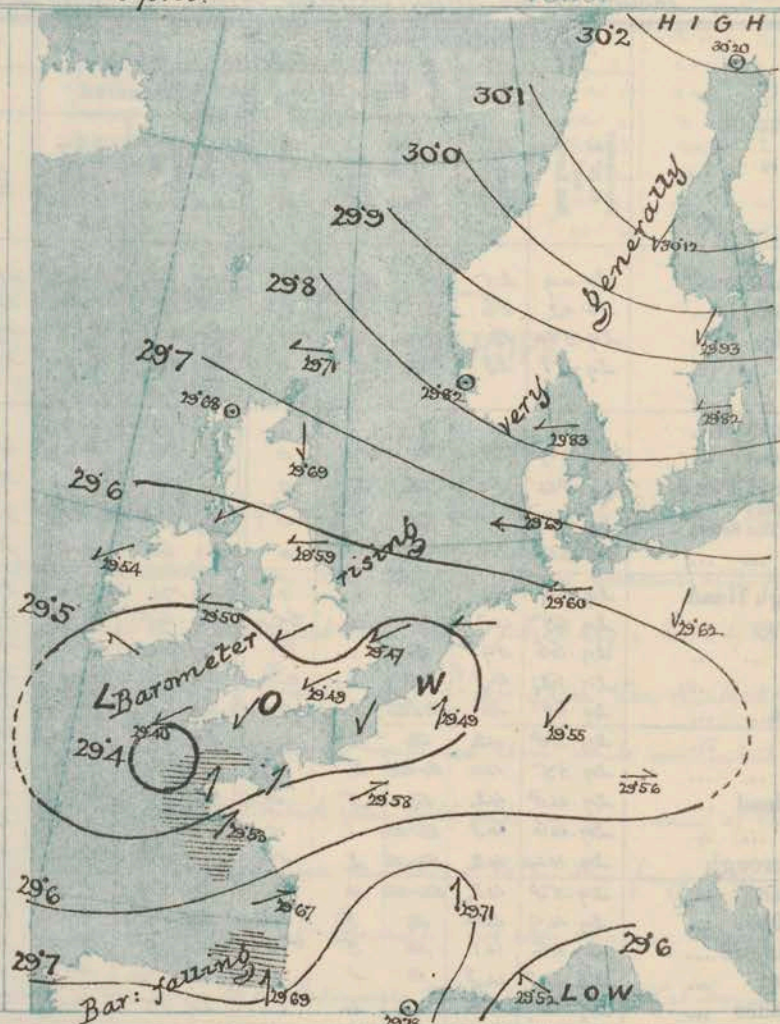
— Rough — High

MEAN HEIGHT of the BAROMETER

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

During the 15 Years 1871—1885.

STATIONS.	MEAN READINGS.
	in.
Sumburgh Head	29.849
Stornoway	29.821
Wick	29.853
Nairn	29.853
Aberdeen	29.862
Leith	29.866
Shields	29.870
York	29.877
Loughborough	29.878
Ardrossan	29.887
Donaghadee	29.883
Holyhead	29.881
Liverpool	29.884
Parsonstown	29.883
Valencia	29.885
Roche's Point	29.838
Pembroke	29.844
Scilly	29.849
Jersey	29.867
Hurst Castle	29.867
Dover	29.886
LONDON	29.877
Oxford	29.882
Cambridge	29.879
Yarmouth	29.876



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.

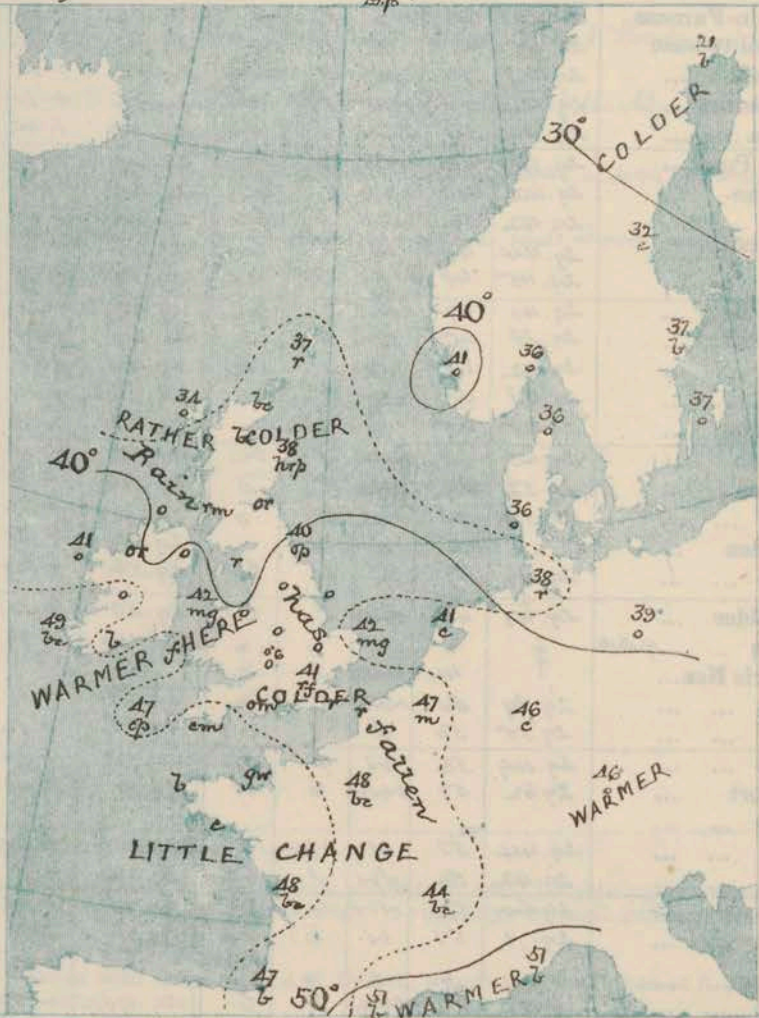
MEANS OF TEMPERATURE IN SHADE.

AND RAINFALL.

for the month of April.

STATIONS.	TEMPERATURE.				RAINFALL. (Inches).
	Daily Max.	Daily Min.	at 8 a.m.		
			Dry.	Wet.	
Sumburgh Head	46.3	37.3	41.9	40.6	2.16
Stornoway	49.3	37.5	44.1	42.3	2.51
Wick	49.2	37.4	43.2	41.2	1.56
Nairn	51.5	37.9	43.1	40.6	1.23
Aberdeen	49.6	38.5	43.4	40.9	2.23
Leith	52.6	38.2	44.2	42.1	1.65
Shields	49.2	39.2	43.8	41.7	1.94
York	54.1	37.8	44.1	42.0	1.86
Loughborough	55.7	38.3	45.1	42.6	1.77
Ardrossan	52.1	39.9	44.6	42.2	2.23
Donaghadee	51.3	40.1	44.8	43.2	2.02
Holyhead	51.9	42.4	46.2	44.2	1.86
Liverpool	53.0	40.7	45.5	42.6	1.56
Parsonstown	55.0	38.3	45.7	43.0	2.15
Valencia	54.3	42.9	48.4	45.9	4.01
Roche's Point	54.2	42.4	47.0	44.9	3.43
Pembroke	50.8	42.1	45.6	43.6	2.10
Scilly	52.6	45.0	49.0	47.1	2.45
Jersey	54.6	43.6	49.0	46.4	2.04
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Cambridge	56.2	37.7	45.5	43.3	1.76
Yarmouth	49.5	40.4	45.1	43.4	1.80

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



GENERAL SITUATION AT 8 A.M.

PRESSURE

Highest, 29.8 ins. to 30.2 ins. over Scandinavia and the northern parts of the Baltic and Finland.
 Lowest, 29.7 ins. to 29.9 ins. over the Spanish Peninsula.
 Gradients slight generally. Barometer rising except over Spain and at Scilly.

TEMPERATURE

Highest, 53° at Dublin, 51° at Aberdeen, 49° at Valencia, 48° at Rochefort, and 47° at Scilly.
 Lowest, 21° at Haparanda, 32° at Narvik, 35° at Kairi, 38° at Aberdeen and Copenhagen, and 39° at Berlin.
 It is falling in Scotland, the north of Scandinavia and the southeast of England.

WIND

Remains NE^{ly} or E^{ly} over the Baltic, the North Sea, and British Isles.
 SW^{ly} over Spain and France - light and very variable in the Channel.
 In force it is not strong anywhere.

WEATHER

Fine over Southern Europe, the south of Ireland, and over Sweden.
 B dull elsewhere, with rain in several parts of our Islands.
 The rainfall has been considerable in some parts of England.

SEA

Rough over the Bay of Biscay and at Scilly, moderate to smooth on our other coasts.

PROBABLE CHANGES IN SYSTEM NOW PREVALENT

There is still very little indication of any important change.

FORECASTS

for the 24 hours ending at NOON on 11th APRIL 1889.

DISTRICTS.

FORECASTS.

- | | | |
|---|------------------|--|
| 0 | SCOTLAND NORTH | SE ^{ly} and E ^{ly} winds, changeable rain or sleet at times. |
| 1 | SCOTLAND EAST | |
| 2 | ENGLAND N.E. | E ^{ly} winds, dull, rainy, improving later. |
| 3 | ENGLAND EAST | |
| 4 | MIDLAND COUNTIES | |
| 5 | ENGLAND SOUTH | Variable airs and calms; gloomy, rainy. |

DISTRICTS.

FORECASTS.

- | | | |
|----------|---------------|--|
| 6 | SCOTLAND WEST | Same as Nos 2 to 4. |
| 7 | ENGLAND N.W. | |
| 8 | ENGLAND S.W. | Same as No 5. |
| 9 | IRELAND NORTH | NE ^{ly} and E ^{ly} breezes, dull, rain at times. |
| 10 | IRELAND SOUTH | |
| 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.	Dry.	Wet.	Wind.	Wca.	Sea.		Bar.	Dry.	Wet.	Wind.	Wca.	Sea.
Skudesnaes ...	29.77	39	26	0° 1	0	2	Holyhead ...	29.43	41	41	E 4	rmg	4
Sanburgh Head ...	29.70	41	29	0° 1	bc	2	Valencia ...	29.41	52	48	SW 2	bcn	2
Stornoway ...	29.65	45	44	E 4	c	4	Scilly ...	29.42	52	48	W 2	c	3
Aberdeen ...	29.65	42	40	ENE 3	cq p	5	Jersey ...	29.42	50	46	WNW 3	cm	2
Shields ...	29.54	43	40	ENE 2	0	4	Dungeness ...	29.37	46	46	E 4	0	2
Ardrossan ...	29.52	45	43	ENE 4	0	2	London ...	29.37	48	46	E 1	0	2
Malin Head ...	29.48	45	41	ENE 4	0	2	Yarmouth ...	29.44	44	42	ENE 4	bc	4
Mullaghmore ...	29.45	42	41	E 5	0 g	4	Rocheport ...	29.52	52	48	WNW 6	c	3
Belmullet ...	29.43	43	41	ENE 1	0 g	*							

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

The reports for yesterday morning showed that pressure was highest, 30.0 ins: and upwards, over Central Russia, but high 29.9 ins: and upwards, over the north of Scandinavia and also over the extreme south of Spain. The lowest pressures 29.1 ins: and less, were found in a small depression lying over the Gulf of Lyons, but a large area of low readings, 29.3 ins: and less, covered nearly the whole of France, with the north of Italy, the adjacent part of the Mediterranean and the extreme south-east of England. The wind was light to fresh from the End over nearly all the more northern countries, but light or moderate from the NWnd over the southwest of our Islands and the coast of France, and strong from the same quarter over Spain, the southwest of France and Western Algeria. At Algiers and Annaba W^g gales were reported, while over Southern Italy the wind was moderate from the SWnd. The weather was fine in the west of Norway and some parts of Scotland, as well as in Algeria and the southern parts of Spain and Italy, but cloudy or overcast elsewhere, with rain over the southeastern parts of England and France and snow at Archangel. Temperature had changed ^{little} and irregularly and readings ranged from 55° and upwards over the central and southern parts of the Mediterranean to 35° or less over Scandinavia and the northern parts of Russia and Germany. The highest individual readings were 62° at Oran, 61° at Algiers, 60° at Nemours and La Fale, 58° at Malta, 57° at Bordini and Palermo, 54° at Lerina and 52° at Lisbon and Naples; the lowest were 31° at Usterby, 31° at Riga, 33° at Rode, Archangel, and Abemil, 34° at Stapananda, Helsingfors and Copenhagen, and 35° at Uleaborg Kuopio, Hangö, St Petersburg, Niemy, Teno, New Fahlwasser, Moscow and Swinemunde.

In the course of the day the barometer rose in all parts of Western Europe and the large area of low pressure noticed above partially filled up. Towards night, however, there were indications of the approach of a small depression towards the south of Ireland, where the barometer fell slightly.

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, 11th April, 1889.*
 Issued by the Meteorological Office 63 Victoria Street, London. R. H. SCOTT, Secretary.

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. 4 to 9.	SHADE TEMP.		Amount of Rainfall.	
			Dir.	Force. (0 to 12.)		Reading at 32° F. and Sea Level.	Difference from 8 a.m. yesterday.	Dry.	Wet.	Difference from 8 a.m. yesterday.	Dir.	Force. (0 to 12.)			Max.	Min.		
SCANDINAVIA.																		
Haparanda ...	30.19	21	Z	0	6	30.12	-.08	24	23	+ 3	Z	0	0	*	34	12	-	
Hernösand ...	30.15	31	Z	0	0	30.16	+.04	31	30	- 1	Z	0	0	*	37	27	-	
Stockholm ...	30.42	32	EHE	2	6	29.98	+.05	32	29	- 5	HE	6	0	*	43	28	-	
Wishby ...	29.89	35	E	6	7	29.86	+.04	34	33	- 3	EHE	4	7	*	43	30	0.04	
B. d.ö ...	30.05	37	Z	0	0	30.11	+.10	36	33	- 1	HE	2	6c	1	41	30	-	
Christiansund...	29.92	41	EHE	1	6	29.93	+.05	39	36	+ 2	ESE	1	6	1	46	32	-	
Skudesnaes ...	29.89	40	HE	1	0	29.86	+.04	43	38	+ 2	EHE	4	0	3	46	39	-	
Christiania Fjord (Fjord)	29.93	39	HE	4	6c	29.95	+.04	36	33	0	HE	5	0	1	41	36	-	
Skagen (The Scaw)	29.85	39	EHE	3	0	29.88	+.05	37	34	+ 1	E	4	0	3	45	34	-	
Fanö ...	29.73	37	E	6	0	29.73	+.04	37	37	+ 1	E	6	0	*	39	36	-	
BRITISH ISLANDS.																		
Sumburgh Head	29.77	39	SE	3	7	29.80	+.09	39	38	+ 2	ESE	5	7	6	41	36	0.13	
Stornoway ...	29.73	41	HE	4	6c	29.67	-.01	38	37	+ 4	S	2	7	3	44	30	0.03	
Wick ...	29.72	41	S	1	0	29.69	-.00	42	41	+ 4	SE	3	7	4	49	34	0.05	
Nairn ...	29.71	38	Z	0	7	29.69	+.02	34	33	- 4	Z	0	8p	1	44	32	0.05	
Aberdeen...	29.71	40	ESE	3	op	29.69	-.00	40	39	+ 2	E	3	0d	4	44	38	0.04	
Leith ...	29.66	40	E	2	0	29.63	+.03	40	39	0	HE	3	op	*	41	37	0.08	
Shields ...	29.62	40	E	2	0	29.55	-.04	40	39	0	EHE	4	7	4	44	39	0.12	
Spurn Head ...	29.53	41	EHE	4	7	29.51	-.02	42	40	0	SSE	5	6	4	43	39	0.05	
York ...	29.54	43	E	1	0	29.45	-.10	42	42	0	E	1	m	*	44	37	0.09	
Loughborough	29.53	42	EHE	2	7	29.51	-.01	39	38	- 2	SE	1	c	*	46	36	0.70	
Ardrossan ...	29.64	41	EHE	3	rm	29.63	+.04	43	41	+ 4	HE	2	c	2	43	38	0.03	
Malin Head ...	29.66	40	HE	4	0	29.67	+.10	41	39	+ 1	HE	5	6	4	41	37	0.02	
Mullaghmore ...	29.62	42	HE	6	ogr	29.69	+.14	43	40	+ 3	N	4	6	3	43	39	0.01	
Belmullet ...	29.64	44	EHE	6	0	29.72	+.18	44	40	+ 3	HE	5	6	*	44	40	-	
Donaghadee ...	29.60	43	HE	3	0	29.60	+.05	43	42	+ 1	HE	5	c	3	43	41	0.06	
GERMANY.																		
Barrow-in-Furness	29.56	45	E	2	0	29.52	-.02	38	37	- 2	N	2	7	*	48	37	0.24	
Liverpool (Bidston)	29.54	44	E	3	0	29.52	-.01	37	37	- 3	HE	2	7	3	45	33	0.33	
Holyhead ...	29.53	44	E	4	em	29.54	+.04	39	38	- 3	HE	4	rgm	4	47	38	0.17	
Parsonstown ...	29.55	46	HE	1	c	29.64	+.14	40	38	- 2	HE	2	0	*	50	39	0.07	
Valencia ...	29.53	48	HE	3	em	29.68	+.20	44	41	- 5	HE	4	0	5	52	41	0.05	
Roche's Point...	29.50	46	ESE	3	c	29.58	+.10	43	42	- 3	HE	4	7	4	50	41	0.20	
Pembroke ...	29.47	48	HE	2	c	29.51	+.03	40	39	0	HE	3	7	2	49	39	0.04	
Scilly ...	29.40	49	ESE	6	c	29.45	+.05	48	46	+ 1	HE	4	c	4	52	44	-	
Prawle Point ...	29.47	45	SE	1	c	29.47	-.00	46	45	- 1	HE	3	em	2	50	37	0.05	
Jersey ...	29.51	49	SE	3	ogr	29.46	-.04	47	43	+ 1	SE	4	6c	3	55	42	0.07	
Hurst Castle ...	29.49	48	SSW	3	bm	29.47	-.02	44	44	+ 1	WSW	1	c	1	53	41	-	
Dungeness ...	29.49	46	W	4	c	29.50	+.03	44	42	+ 1	S	3	c	2	49	37	0.45	
London ...	29.51	44	Z	0	ogr	29.50	+.01	39	38	- 2	SE	1	ogd	*	45	37	0.17	
Oxford ...	29.52	43	Z	0	0	29.50	-.00	40	40	- 1	HE	1	ogp	*	43	39	0.19	
Cambridge ...	29.52	45	E	1	7	29.51	-.00	39	39	- 4	S	1	0	*	48	37	0.41	
Yarmouth ...	29.47	41	EHE	4	ogf	29.52	+.05	43	42	+ 1	SSE	3	bcm	4	43	38	0.19	
Cuxhaven ...	29.65	29	E	4	0	29.64	+.04	42	42	+ 4	ESE	3	7	*	42	?	0.06	
Berlin ...	29.69	48	HE	2	0	29.71	+.09	44	43	+ 5	N	3	0	*	48	?	-	
Wiesbaden ...	*	*	*	*	*	29.65	+.10	46	44	0	W	2	6	*	57	41	-	
Munich ...	29.69	44	W	3	0	29.66	+.10	43	40	- 3	SE	4	c	*	52	36	-	
FRANCE & NETHERLANDS.																		
The Helder ...	*	*	*	*	*									*				
Brussels ...	*	*	*	*	*									*				
Cape Gris-Neu...	?	44	SW	2	c	?	?	43	41	+ 1	S	3	0	2	45	39	0.39	
Paris ...	29.58	52	SSW	2	6c	29.58	-.00	40	39	- 5	SSE	1	6c	*	57	37	0.04	
Brest ...	29.41	48	SSW	6	0	29.41	-.13	43	42	- 2	E	4	0	5	52	41	0.28	
Lorient ...	29.50	47	S	4	0	29.38	-.15	43	42	- 5	SE	3	c	5	52	41	0.43	
Rochefort ...	29.64	48	W	4	6c	29.56	-.11	45	44	- 3	S	5	c	2	54	39	0.04	
Belfort ...	29.59	44	W	1	6	29.58		48	43		W	2	0	*	59	32	-	
Lyons ...	29.65	53	ESE	1	6	29.68	-.13	41	41	- 3	W	1	7	*	58	41	0.16	
Nice ...	29.62	57	SW	8	7	29.71	+.19	48	42	- 3	EHE	3	6	1	64	43	-	
Perpignan ...	29.65	54	E	2	6	29.61	-.17	45	43	- 6	S	1	0	*	60	41	-	
Biarritz ...	29.65	50	W	5	7	29.57	-.12	48	43	+ 1	SW	3	6	3	55	41	-	
SPAIN.																		
Corunna ...	*	*	*	*	*									*				
Lisbon ...	29.87	50	WSW	4	c	29.89	-.01	47	43	- 6	W	4	6	3	57	45	0.24	

WEATHER CHARTS

for 8 a.m. on

Thursday, 11th April.

1889.

BAROMETER, WIND & SEA.

(Explanation of Map)

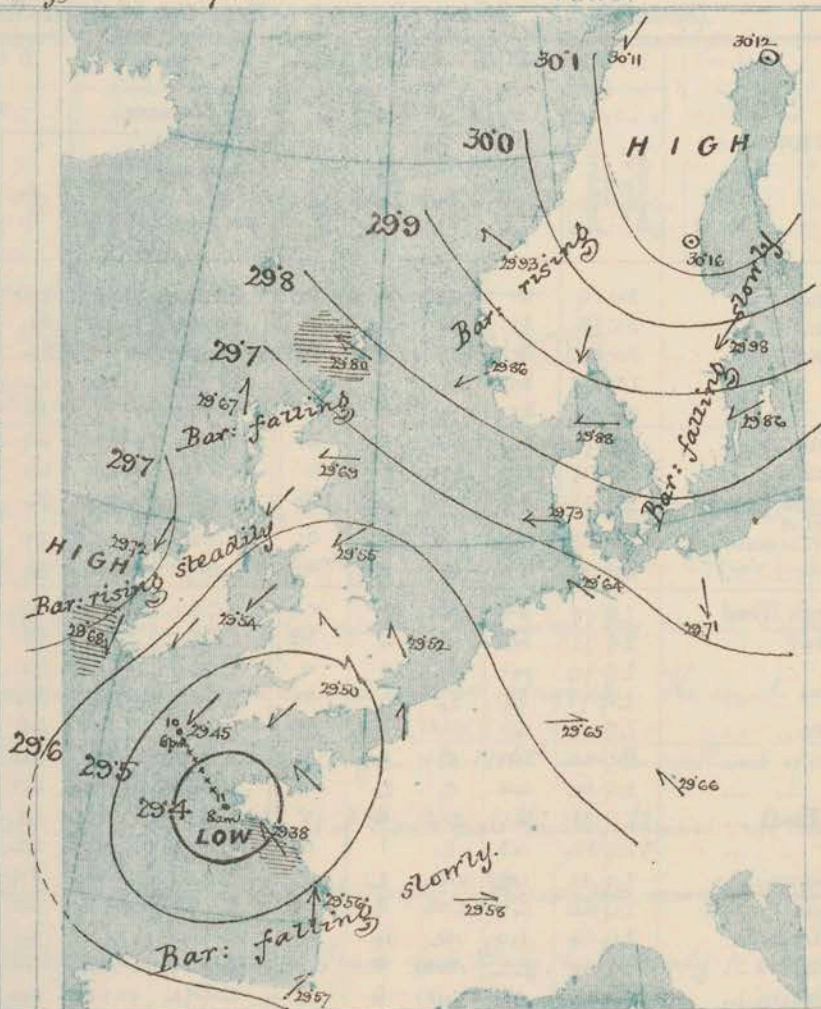
Barometer—Isobars are drawn for each tenth of an inch. Changes since previous morning are stated in words.
Wind—Arrows show the prevalent winds. They fly with the wind and their barbs and feathers refer to force, thus—
 — = forces above 10; — = forces 6 to 10;
 — = forces 5 to 7; — = forces 1 to 4;
 ○ = dead calm.

Sea Disturbance—where considerable is shown thus.
 — = Rough — = High.

MEAN HEIGHT of the BAROMETER

at 6 a.m. for the month of April.
 During the 15 Years 1871—1885

STATIONS.	MEAN READINGS.
Sumburgh Head	29.849
Stornoway	29.821
Wick	29.853
Nairn	29.853
Aberdeen	29.862
Leith	29.865
Shields	29.870
York	29.877
Loughborough	29.878
Ardrossan	29.867
Donaghadee	29.853
Holyhead	29.851
Liverpool	29.864
Parsonstown	29.853
Valencia	29.835
Roche's Point	29.838
Pembroke	29.844
Sailly	29.849
Jersey	29.867
Hurst Castle	29.867
Dover	29.866
LONDON	29.877
Oxford	29.882
Cambridge	29.879
Yarmouth	29.876



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 April.

STATIONS.	TEMPERATURE.				RAINFALL. (Inches.)
	Daily Max.	Daily Min.	at 8 a.m.		
			Dry.	Wet.	
Sumburgh Head	46.3	37.3	41.9	40.5	2.16
Stornoway	49.3	37.5	44.1	42.3	2.51
Wick	49.2	37.4	43.2	41.2	1.56
Nairn	51.5	37.9	43.1	40.6	1.23
Aberdeen	49.6	38.5	43.4	40.9	2.23
Leith	52.6	38.2	44.2	42.1	1.65
Shields	49.2	39.2	43.8	41.7	1.94
York	54.1	37.8	44.1	42.0	1.86
Loughborough	55.7	38.3	45.1	42.6	1.77
Ardrossan	52.1	39.9	44.6	42.2	2.23
Donaghadee	51.3	40.1	44.3	43.2	2.02
Holyhead	51.9	42.4	45.2	44.2	1.86
Liverpool	53.0	40.7	45.5	42.6	1.56
Parsonstown	55.0	38.3	45.7	43.0	2.15
Valencia	54.3	42.9	45.4	45.9	4.01
Roche's Point	54.2	42.4	47.0	44.9	3.43
Pembroke	50.6	42.1	45.6	43.6	2.10
Scilly	52.5	45.0	49.0	47.1	2.45
Jersey	54.6	43.6	49.0	46.4	2.04
Hurst Castle	52.3	41.4	45.9	44.6	1.87
Dover	51.5	43.4	47.1	44.5	1.81
LONDON	56.7	40.0	46.8	43.6	1.36
Oxford	55.1	39.3	46.0	42.7	1.79
Cambridge	56.2	37.7	45.5	43.3	1.76
Yarmouth	49.5	40.4	45.1	43.4	1.80

Note—The Temperature means are for the 15 years 1871—86, the Rainfall means are mainly those for the 20 years 1866—85



GENERAL SITUATION AT 8 A.M.

PRESSURE

Highest, 29.9 ins. to 30.1 ins. and more, over Scandinavia, 29.7 ins. to 29.9 ins. over the southern half of Spain.
 Lowest, 29.4 ins. in a depression lying off Leshant, and travelling southeasterly.
 Gradients moderate to slight. Barometer rising in Ireland and Scandinavia, falling over France and also over the Hebrides.
 A new high pressure area is appearing off the west of Ireland.

TEMPERATURE

Highest, 48° at Hibernia, 47° at Jersey and Lisbon, 44° in the west of Ireland.
 Lowest, 24° at Haparanda, 31° at Helsingfors, 37° at Tams and Liverpool, 39° at Christiansund and Lumburg Head, and 40° at Shields.
 It is inclined to rise in the north of our Islands.

WIND

E³, moderate to fresh, over the Baltic and eastern shore of the North Sea.
 Variable SE. to NE. over our Islands, W² over the Spanish Peninsula.
 S to SE in the west and north of France - Variable over Germany and east of France.

WEATHER

Clear in the northwest of Norway, the north of Ireland, and the east coast of England, cloudy and changeable elsewhere, with rain in many places.
 The rainfall yesterday was considerable over our Midland Counties.

SEA

Rough at Lumburg Head and Valencia, moderate or slight elsewhere.

PROBABLE CHANGES IN SYSTEM NOW PREVALENT

The fresh fall of the barometer in the north seems to indicate that the weather over the United Kingdom will be of a very changeable character during the coming day, and the wind variable.

FORECASTS

for the 24 hours ending at NOON on 12TH APRIL 1889.

DISTRICTS.

FORECASTS.

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

Varying winds; very unsettled, rainy; - temperature rising.
 Very Variable light winds and calms; dull foggy and rainy, improving later.

DISTRICTS.

FORECASTS.

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

Wind backing to NW. and W; weather very changeable, milder.
 NE² winds, backing to NW. later; changeable, rain at times.
 N² to NW² winds, weather clearing for a time, milder and showery later.

WARNINGS

NONE ISSUED.

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

YESTERDAY'S 2 P.M. REPORTS.

	Bar.	Dry.	Wet.	Wind.	Wes.	Sea.		Bar.	Dry.	Wet.	Wind.	Wes.	Sea.
Skudesnæs ...	29.86	46	40	WNW 2	0	2	Holyhead ...	29.53	45	44	ENE 1	0 gm	2
Sumburgh Head ...	29.74	40	39	SE 2	†	3	Valencia ...	29.51	51	45	N 3	cm	3
Stornoway ...	29.71	44	42	E 3	bc	3	Scilly ...	29.40	52	47	E 5	bc	6
Aberdeen ...	29.71	41	39	E 3	op	4	Jersey ...	29.51	53	48	SE 3	bc	3
Shields ...	29.62	42	41	NE 2	0	3	Dungeness ...	29.49	45	45	SSW 2	r	1
Ardrossan ...	29.61	43	42	ESE 3	0	2	London ...	29.52	45	44	NE 1	ofr	*
Malin Head ...	29.63	40	39	NE 4	0	3	Yarmouth ...	29.51	42	42	ENE 4	ofr	4
Mullaghmore ...	29.60	43	41	ENE 5	0 gm	4	Rochefort ...	29.67	51	48	SW 5	0	3
Belmullet ...	29.60	45	43	ENE 5	0	*							

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

The reports for yesterday morning showed that pressure was highest, 30.2 ins: and upwards, over Lapland, but high, 30.0 ins: and upwards over Central Russia, and relatively high, 29.9 ins: and upwards over Algeria and the south of Spain. The lowest readings, 29.4 ins: and less, were found in a large shallow depression lying over the south of Austria, and also in two small disturbances lying respectively at the mouth of the Channel, ^{and also over the north of Belgium, but a large trough of low readings, 29.5 ins: and less, lay over the whole of the Channel,} the southern parts of England and Ireland, Belgium, and the extreme north of France. The wind remained E or NE over the greater part of Northern Europe and also over Ireland and England, but over France and southern Europe light or moderate breezes from between NW and SW were reported, while in Scotland calms or light NW airs were general. The weather was fine over France and Southern Europe, as well as in the north of Scotland, but cloudy or overcast elsewhere, with rain or fog over the southern parts of the United Kingdom and also in Germany; fog at several of the Russian stations, and snow at Archangel, Uleaborg and Helsingfors. Temperature had risen a little over Ireland and the central parts of England, but elsewhere the tendency was for a slight fall, readings ranged from between 55° and 65° at several of the Mediterranean stations to a few degrees below the freezing point over the northern parts of Sweden and Russia. The highest individual readings were 63° at Baghiani, 61° at Sfor, 60° at Lalalle, 58° at Algiers, 57° at Barcelona and Brindisi, 56° at Malta, and 55° at Lunenburg and Drans, the lowest were 21° at Archangel and Haparanda, 27° at Kuopio, 30° at Uleaborg, 32° at Helsingfors, 33° at Hangö and St Petersburg, 34° at Helsingfors, Moscow, and Stornoway, and 35° at Copenhagen and Kairi.

In the course of the day very little change occurred in the general distribution of pressure or in the prevailing winds. Large amounts of rain fell in some parts of the United Kingdom, and a dense high fog was experienced in London between 10 am and 2 pm.

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, 12th April, 1889.

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

STATIONS.	† YESTERDAY EVENING.					8 A.M. TO DAY.										PAST 24 HOURS.		
	Barometer at 32° F. and Sea Level.	Temp. in Shade.	WIND.		Weather.	BAROMETER.		SHADE TEMP.			WIND.		Weather.	Sea (0 to 9.)		SHADE TEMP.		Amount of Rainfall.
			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 ..	30.16	22	ZO	0	b	30.26	+ .14	26	24	+ 2	NE	2	O	*		32	14	-
Hernösand ...	30.17	26	ZO	0	b	30.19	+ .03	26	24	- 5	ZO	O	b	*		45	25	-
Stockholm ...	30.01	29	NE	2	b	29.97	+ .01	31	29	- 1	EHE	4	O	*		36	28	-
Wisby ...	29.89	33	EHE	4	O	29.80	- .06	36	35	+ 2	E	4	r	*		39	32	0.20
Bodö ...	30.12	35	ZO	0	b	30.08	- .03	36	32	0	NE	2	bc	1		37	28	-
Christiansund...	29.94	40	EHE	1	b	29.99	+ .06	38	36	- 1	S	1	b	1		46	32	-
Skudesnaes ...	29.91	43	ZO	0	O	29.93	+ .07	43	40	- 3	EHE	2	c	3		52	39	-
Christiania Fjord (Færd)	29.96	39	EHE	2	c	29.97	+ .02	33	?	- 3	NE	5	c	1		39	28	-
Skagen (The Seaw)	29.87	37	E	4	O	29.85	- .03	33	32	- 4	ESE	5	S	4		39	32	-
Fanö ...	29.75	39	E	4	O	29.73	- .02	37	36	0	EHE	4	O	*		41	36	-
Sumburgh Head	29.86	41	E	4	O	29.98	+ .18	44	41	+ 5	EHE	2	bc	4		44	38	0.07
Stornoway ...	29.68	44	E	3	O	29.86	+ .19	43	42	+ 5	SE	3	O	3		46	35	0.03
Wick ...	29.76	40	SE	6	r	29.91	+ .22	41	40	- 1	SE	7	om	7		42	38	0.22
Nairn ...	29.69	40	ZO	0	O	29.85	+ .16	40	40	+ 6	EHE	2	d	2		46	32	0.15
Aberdeen...	29.72	40	ESE	4	Og	29.88	+ .19	40	39	0	EHE	5	org	5		43	39	0.26
Leith ...	29.64	41	E	2	O	29.79	+ .16	41	40	+ 1	E	3	om	*		42	38	0.08
Shields ...	29.61	42	EHE	2	O	29.73	+ .18	40	39	0	E	3	O	4		45	38	0.01
Spurn Head ...	29.53	43	E	4	c	29.66	+ .15	42	41	0	NE	4	O	4		44	40	0.09
York ...	? 29.54	46	E	1	O	? 29.67	+ .22	41	40	- 1	E	1	m	*		49	37	0.05
Loughborough	29.53	44	HW	1	c	29.66	+ .15	39	39	0	NE	1	om	*		53	37	0.14
Ardrrossan ...	29.62	42	NE	3	om	29.74	+ .11	42	41	- 1	NE	4	om	2		44	40	0.10
Malin Head ...	29.66	45	W	4	c	29.69	+ .02	41	41	0	SE	4	or	3		45	40	0.16
Mullaghmore ...	29.68	45	NNW	5	bv	29.66	- .03	42	41	- 1	EHE	4	od	2		48	40	0.02
Belmullet ...	29.73	46	EHE	4	bc	29.69	- .03	45	43	+ 1	NE	5	O	*		48	37	0.01
Donaghadee ...	29.60	41	NE	5	r	29.69	+ .09	43	42	0	NE	5	O	3		43	40	0.39
Barrow-in-Furness	29.53	44	SSE	2	O	29.65	+ .13	43	41	+ 5	NE	3	b	*		46	37	0.04
Liverpool (Bidston)	29.55	42	WSW	1	bc	29.66	+ .14	42	41	+ 5	E	3	O	3		45	37	0.06
Holyhead ...	29.54	42	EHE	1	rg	29.62	+ .08	43	42	+ 4	E	3	cm	2		43	38	0.12
Parsonstown ...	29.64	47	HW	2	bc	29.65	+ .01	38	37	- 2	ZO	O	r	*		50	36	0.04
Valencia ...	29.72	49	N	4	bv	29.70	+ .02	46	43	+ 2	NNW	1	bc	2		51	37	0.02
Roche's Point...	29.61	51	NE	5	b	29.64	+ .06	42	38	- 1	N	4	b	4		52	39	0.01
Pembroke ...	29.52	41	NE	3	r	29.60	+ .09	43	42	+ 3	EHE	3	cgm	1		43	39	0.03
Scilly ...	29.53	45	NNW	5	op	29.56	+ .11	45	43	- 3	NNW	5	c	4		50	42	0.03
Prawle Point ...	29.52	46	S	1	c	29.55	+ .08	44	43	- 2	NE	3	og	2		51	37	-
Jersey ...	29.48	48	SE	4	bc	29.53	+ .07	47	45	0	EHE	2	cgm	2		52	44	0.01
Hurst Castle ...	29.51	46	S	3	bc	29.57	+ .10	45	44	+ 1	EHE	3	c	2		50	43	-
Dungeness ...	29.52	46	SSW	3	b	29.56	+ .06	45	44	+ 1	E	4	c	3		50	42	0.02
London ...	29.54	47	SSW	1	c	29.59	+ .09	43	42	+ 4	EHE	1	om	*		48	39	-
Oxford ...	29.55	42	ZO	0	O	29.62	+ .12	42	41	+ 2	NE	1	c	*		48	37	0.16
Cambridge ...	29.54	47	SE	1	c	29.65	+ .14	37	37	- 2	N	1	O	*		51	31	0.02
Yarmouth ...	29.56	43	SE	3	bc	29.60	+ .08	42	42	- 1	NE	2	f	4		45	40	0.06
Cuxhaven ...	29.67	41	E	3	O	29.67	+ .03	38	38	- 4	EHE	4	O	*		45	37	0.05
Berlin ...	29.63	48	NE	3	O	29.58	- .13	41	40	- 3	NW	3	O	*		52	41	-
Wiesbaden ...	*	*	*	*	*	29.58	- .07	46	44	0	SE	3	O	*		59	43	-
Munich ...	29.50	45	NE	3	c	29.64	- .02	37	36	- 6	W	6	r	*		54	36	0.24
FRANCE & NETHERLANDS.																		
The Helder ...	29.60	45	EHE	1	c	29.63		43	43		EHE	1	f	2		50	43	-
Brussels 9 AM.	*	*	*	*	*	29.61		42	41		WSW	1	O	*		52	40	0.24
Cape Gris Nez...	?	44	NE	2	b	?	?	44	42	+ 1	E	2	bc	2		52	41	-
Paris ...	29.56	52	NW	1	bc	29.56	- .02	45	43	+ 5	SE	3	bc	*		56	?	-
Brest ...	? 29.52	49	EHE	3	c	? 29.62	+ .21	44	42	+ 1	N	1	O	2		54	39	0.32
Lorient ...	29.43	47	NW	3	r	29.58	+ .20	44	42	+ 1	NW	3	b	3		54	41	0.20
Rochefort ...	29.53	51	SSW	6	c	29.62	+ .06	48	46	+ 3	WNW	6	bc	3		57	39	0.20
Belfort ...	29.59	39	W	1	O	29.65	+ .07	48	44	0	W	1	b	*		50	32	0.04
Lyons ...	29.64	44	EHE	2	b	29.69	+ .11	44	41	+ 3	S	2	bc	*		49	38	0.16
Nice ...	29.58	45	NE	2	c	29.62	- .09	45	38	- 3	NE	2	b	2		59	41	0.51
Perpignan ...	29.63	55	ZO	0	b	29.75	+ .14	47	44	+ 2	SW	2	O	*		62	41	0.12
Biarritz ...	? 29.69	53	WSW	4	O	? 29.71	+ .14	49	44	+ 1	WSW	3	bc	3		57	45	-
PENINSULA.																		
Corunna ...	*	*	*	*	*													
Lisbon ...	29.87	51	W	3	b	29.83	- .06	48	46	+ 1	W	2	b	?		58	46	0.16

For Explanation of Columns, see p. 4.

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

WEATHER CHARTS

for 8 a.m. on

Friday, 12th April.

1889.

BAROMETER, WIND & SEA.

(Explanation of Map)

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

Wind — Arrows show the prevalent winds. They fly with the wind and their heads and feathers refer to force, thus —

→ = forces above 10; → = forces 6 to 10;
→ = forces 5 to 7; → = forces 1 to 4;
○ = dead calm.

Sea Disturbance — where considerable, is shown thus.

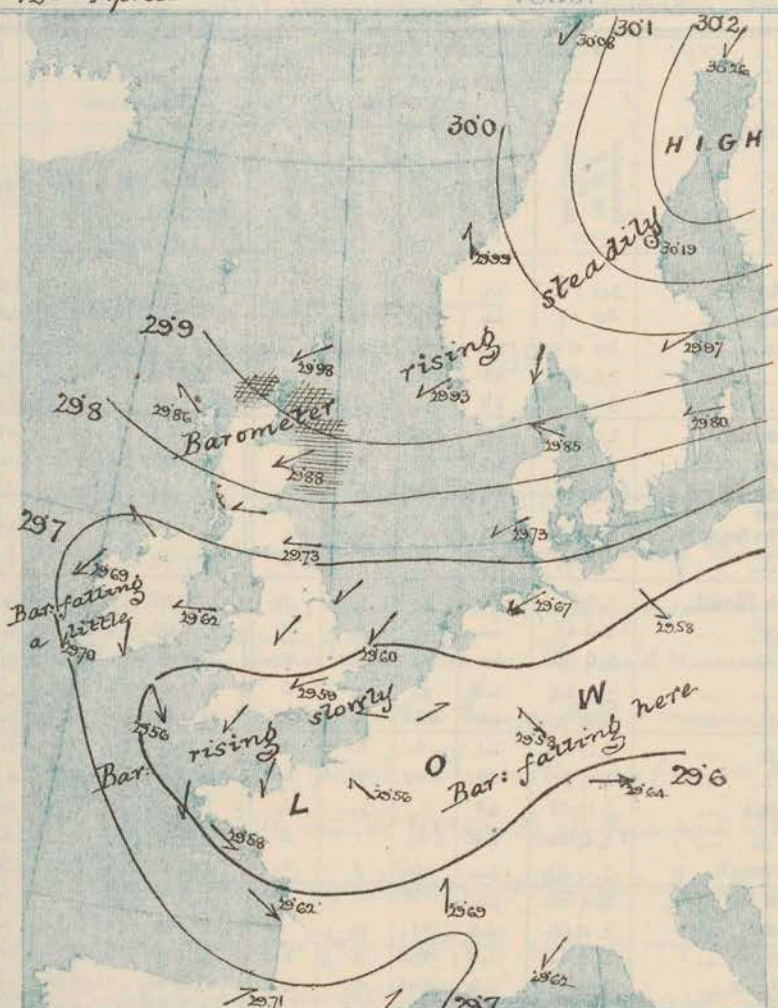
— Rough — High.

MEAN HEIGHT of the BAROMETER

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

During the 35 Years 1871—1886.

STATIONS	MEAN READINGS
Sumburgh Head	29.849
Stornoway	29.821
Wick	29.853
Nairn	29.858
Aberdeen	29.862
Leith	29.865
Shields	29.870
York	29.877
Loughborough	29.878
Ardrossan	29.887
Donaghadee	29.888
Holyhead	29.881
Liverpool	29.884
Parsonstown	29.888
Valencia	29.886
Roche's Point	29.888
Pembroke	29.844
Scilly	29.849
Jersey	29.867
Hurst Castle	29.867
Dover	29.866
LONDON	29.877
Oxford	29.882
Cambridge	29.879
Yarmouth	29.876



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.

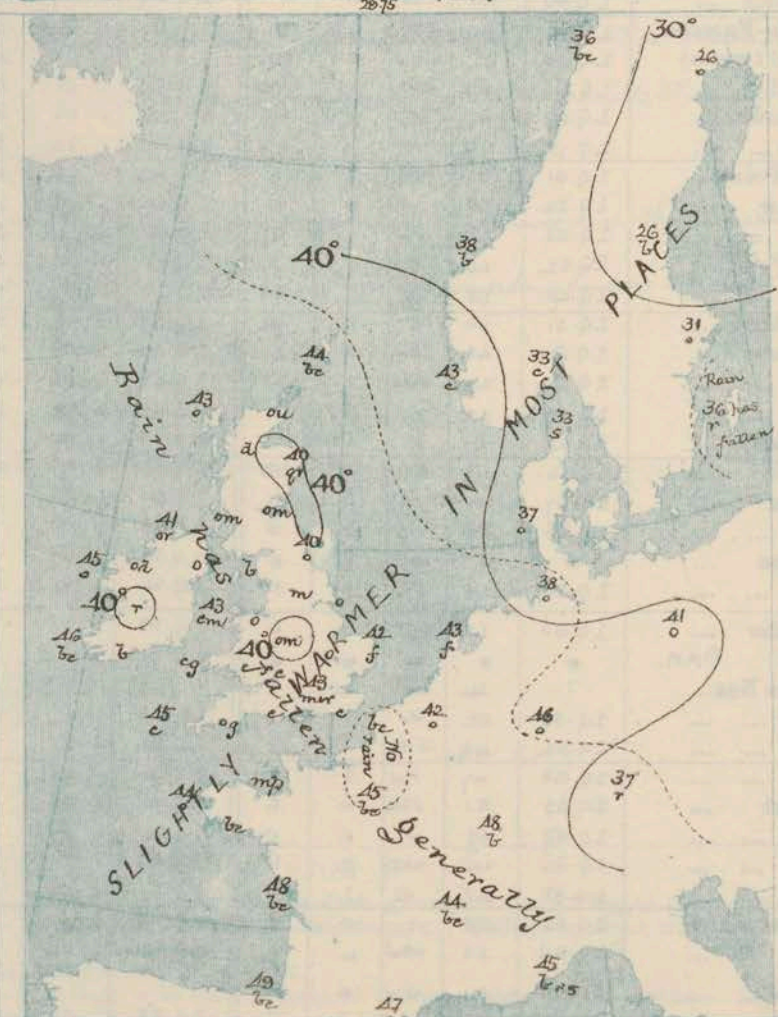
MEANS OF TEMPERATURE IN SHADE.

AND RAINFALL.

for the month of April.

STATIONS	TEMPERATURE				RAINFALL (Inches)
	Daily Max.	Daily Min.	Daily at 8 a.m.	Daily at 8 a.m.	
Sumburgh Head	46.3	37.3	41.9	40.5	2.16
Stornoway	46.3	37.5	44.1	42.3	2.51
Wick	49.2	37.4	43.2	41.2	1.56
Nairn	51.6	37.9	43.1	40.6	1.23
Aberdeen	49.0	38.5	43.4	40.9	2.23
Leith	52.6	38.2	44.2	42.1	1.65
Shields	49.2	39.2	43.3	41.7	1.94
York	54.1	37.8	44.1	42.0	1.86
Loughborough	55.7	38.3	45.1	42.6	1.77
Ardrossan	52.1	39.9	44.6	42.2	2.23
Donaghadee	51.3	40.1	44.8	43.2	2.02
Holyhead	51.9	43.4	46.2	44.2	1.86
Liverpool	53.0	40.7	45.6	42.6	1.56
Parsonstown	55.0	38.3	45.7	43.0	2.15
Valencia	54.3	42.9	48.4	45.9	4.01
Roche's Point	54.2	42.4	47.0	44.9	3.48
Pembroke	50.8	42.1	45.6	43.6	2.10
Scilly	52.5	45.0	49.0	47.1	2.45
Jersey	54.6	43.6	49.0	46.4	2.04
Hurst Castle	52.8	41.4	45.9	44.6	1.87
Dover	51.5	42.4	47.1	44.5	1.81
LONDON	56.7	40.0	46.8	43.8	1.86
Oxford	55.1	39.3	45.0	42.7	1.79
Cambridge	56.2	37.7	45.5	43.3	1.76
Yarmouth	49.6	40.4	45.1	43.4	1.80

Note — The Temperature means are for the 35 years 1871—86, the Rainfall means are mainly those for the 20 years 1866—85.



GENERAL SITUATION AT 8 A.M.

PRESSURE

Highest, 29.9 in: to nearly 30.3 in: over Scandinavia, 29.7 in: to 29.8 in: over Spain.

Lowest, 29.6 in: and less, over Germany, the north of France, the Channel, and south of England.

Gradient slight. Barometer rising over the northern parts of our islands and in Spain, falling a little over Germany and on our western coast.

TEMPERATURE

Highest, 49° at Biarritz, 48° at Lisbon and Rochefort, 47° at Jersey, and 46° at Valencia.

Lowest, 26° at Haparanda and Honningsvåg, 31° at Stockholm, 33° at the Lizard, 38° at Caserbon, and 39° at Loughborough.

At Cambridge the thermometer in the screen fell to 31° early this morning; in London it fell to 39° and on the grass to 28°.

WIND

Remains E. over the Baltic, North Sea, and British Isles, and is moderate generally.

At Wick, however, it is reported to be blowing a moderate gale from SE.

Over the Bay of Biscay it is NW., in Spain W., and over France and Germany variable.

WEATHER

Fine over Spain, France, the south of Ireland and southeast of England; cloudy and not settled elsewhere, with rain in several places, and a threatening appearance at Wick.

SEA

High at Wick, moderate or slight elsewhere, slight at Holyhead and Dover.

PROBABLE CHANGES IN SYSTEM NOW PREVALENT

There is still very little indication of any decided and general change of weather.

FORECASTS

for the 24 hours ending at NOON on 13th April 1889.

DISTRICTS.

FORECASTS.

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

SE² winds, strong; cloudy, showery.

E² winds, moderate; cloudy, a few slight showers.

NE² breezes, light; fine.

DISTRICTS.

FORECASTS.

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

E² breezes, fresh or moderate; some showers.

Varying light breezes, fair.

Same as No 6 and 7

Same as No 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 rear towards N. or N.E., the North Cone is hoisted in preference to the South Cone.

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

YESTERDAY'S 2 P.M. REPORTS.

	Bar.	Dry.	Wet.	Wind.	Woa.	Sea.		Bar.	Dry.	Wet.	Wind.	Woa.	Sea.
Skudesnaes ...	29.89	51	41	SSE 2	C	2	Holyhead ...	29.53	40	40	NE 4	dm	4
Sumburgh Head ...	29.83	40	38	ESE 5	T	6	Valencia ...	29.70	51	44	NNE 5	bv	5
Stornoway ...	29.67	46	44	S 2	6	3	Scilly ...	29.50	45	43	N 5	rm	4
Aberdeen ...	29.68	40	39	E 3	OT	4	Jersey ...	29.49	49	45	ESE 4	c	3
Shields ...	29.57	43	41	ESE 3	O	4	Dungeness ...	29.52	50	47	SSW 3	bc	2
Ardrossan ...	29.62	42	41	NE 3	T	2	London ...	29.51	47	43	SSE 2	c	*
Malin Head ...	29.68	45	42	N 4	6	3	Yarmouth ...	29.55	45	44	SSE 3	bc	4
Mullaghmore ...	29.68	47	43	N 6	bcv	5	Rochefort ...	29.55	56	50	S 5	c	3
Belmullet ...	29.74	48	44	N 4	bc	*							

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

The reports for yesterday morning showed that pressure was highest, 30.2 ins: over Finland, and high, 30.1 ins: and upwards, over all the northern parts of Scandinavia and Russia. An area of relatively high readings 29.9 ins: and upwards, was, however, still lying over Algeria, the south of Spain, and the extreme south of Italy, while a third high pressure system with readings above 29.7 ins: was beginning to appear off the west of Ireland. The lowest readings, 29.4 ins: and less, were found in a small depression lying off the northwest of France, but another shallow disturbance, with readings below 29.6 ins: was situated over Eastern Austria. Light or moderate breezes from the End or NEnd were reported over the greater part of Northern Europe, and fresh NE⁺ breezes in the west of our Islands. In the north and east of Great Britain, however, and the north of France moderate SE⁺ breezes were general, while over Southern Europe the wind was chiefly W⁺ or SW⁺. The weather was fine over the north of Scandinavia, as well as in Algeria, Italy, and the southern parts of France and Spain. Elsewhere however, the sky was cloudy or overcast, with rain in many parts of the United Kingdom, as well as at some of the German and Austrian stations. Fog was reported on the southern shores of the Baltic. Temperature had changed little and irregularly, and reading ranged from a little above 60° at some of the Mediterranean stations to many degrees below the freezing point over Finland. The highest individual readings were 63° at Cagliari and La Galla, 62° at Algiers, 61° at Sfax, 59° at Oran, 58° at Malta, 56° at Barcelona, 55° at San Fernando and Leghorn, and 54° at Sanguinaires and Palermo; the lowest were 18° at Kuopio, 24° at Haparanda, 26° at Kelsingas, 30° at Hangö, 31° at Uleaborg and Hornosand, 32° at Stockholm, 34° at Wisby, 35° at Moscow, and 36° at Rode. Faerder, Copenhagen, Lwinemunde and Neufahrwasser.

In the course of the day the depression off the northwest of France moved slowly eastwards and partially filled up, the change being accompanied by some improvement in the weather over the south of England. Elsewhere no decided alteration was observed.

EXPLANATION OF COLUMNS GIVEN ON PAGE 1.

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

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

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

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DAILY WEATHER REPORT.

for *Saturday, 13th April, 1869.*
Issued by the Meteorological Office, 63 Victoria Street, London. R. H. SCOTT, Secretary.

STATIONS.	† YESTERDAY EVENING.						8 A.M. TO DAY.										PAST 24 HOURS.		
	Barometer at 32° F. and Sea Level.	Temp. in Shade.	WIND.			Weather.	BAROMETER.		SHADE TEMP.			WIND.		Weather.	Sea. (0 to 9.)		SHADE TEMP.		
			Dir.	Force (0 to 12.)			Reading at 8 A.M. and Sea Level.	Difference from 8 A.M. yesterday.	Dry.	Wet.	Difference from 8 A.M. yesterday.	Dir.	Force (0 to 12.)				Max.	Min.	Amount of Rainfall.
SCANDINAVIA.																			
Haparanda ..	30.20	22	Z	0	b		30.05	- .21	20	19	- 6	Z	0	bc	*		36	10	-
Hernösand ...	30.11	21	Z	0	b		30.03	- .16	22	?	- 4	NNE	2	b	*		45	14	-
Stockholm ...	29.92	31	NE	4	S		29.81	- .16	32	32	+ 1	ENE	6	0	*		34	25	0.16
Wisby ...	29.79	36	ESE	6	0		29.67	- .13	37	36	+ 1	ESE	6	C	*		41	28	0.12
Bodö ...	30.04	34	Z	0	0		29.95	- .13	34	31	- 2	Z	0	b	0		39	30	-
Christiansund...	30.00	39	WNW	1	C		29.91	- .08	37	35	- 1	ESE	2	b	2		43	32	-
Skudesnaes ...	29.86	42	NW	2	b		29.76	- .17	42	36	- 1	NE	2	C	2		50	?	-
Christiania Fjord (Færdor)	29.86	39	NNE	6	0		29.79	- .18	31	30	- 2	NNE	6	S	2		41	27	-
Skagen (The Scaw)	29.74	34	ENE	7	r		29.65	- .20	33	33	0	ENE	6	r	4		37	32	0.67
Fanö ...	29.63	33	N	4	S		29.53	- .20	38	37	+ 1	NE	4	0	*		41	34	0.12
BRITISH ISLANDS.																			
Sumburgh Head	30.02	42	NE	3	bc		29.97	- .01	38	36	- 6	NNE	4	rsp	4		46	35	0.05
Stornoway ...	29.99	44	E	4	C		30.03	+ .17	42	40	- 1	E	4	0	4		46	34	0.02
Wick ...	29.98	42	E	2	bc		29.98	+ .07	40	38	- 1	NE	5	0	4		45	38	0.02
Nairn ...	29.99	43	E	1	C		29.97	+ .12	40	40	0	ESE	2	C	2		44	38	0.02
Aberdeen...	29.97	41	NE	2	0		29.92	+ .04	40	38	0	N	4	C	4		41	37	0.11
Leith ...	29.91	40	E	2	0		29.93	+ .14	43	39	+ 2	NE	2	C	*		43	37	0.02
Shields ...	29.83	40	NE	2	p		29.84	+ .11	42	39	+ 2	NNE	3	C	4		42	37	0.05
Spurn Head ...	29.73	41	NE	4	0		29.74	+ .08	42	40	0	N	5	0	4		43	39	-
York ...	29.77	41	ENE	1	m		29.82	+ .15	43	40	+ 2	N	3	0	*		43	37	0.02
Loughborough	29.72	42	NE	3	r		29.78	+ .12	40	38	+ 1	NNE	3	C	*		44	38	0.10
GERMANY.																			
Ardrossan ...	29.86	43	NE	4	cm		29.92	+ .18	43	40	+ 1	NNE	2	bc	1		47	36	-
Malin Head ...	29.84	44	E	4	om		29.96	+ .27	43	41	+ 2	NE	3	b	3		46	41	-
Mullaghmore ...	29.79	48	E	5	om		29.94	+ .28	42	40	0	ENE	5	C	3		48	41	-
Belmullet ...	29.79	45	E	4	0		29.94	+ .25	44	42	- 1	E	2	C	*		47	42	0.04
Donaghadee ...	29.82	46	NE	5	C		29.92	+ .23	42	41	- 1	NE	4	C	2		48	40	-
Barrow-in-Furness	29.76	44	NNE	3	0		29.82	+ .17	40	37	- 3	NE	2	bc	*		50	38	-
Liverpool (Bidston)	29.74	43	ENE	4	0		29.84	+ .18	42	38	0	NE	2	0	3		49	38	0.01
Holyhead ...	29.73	45	ENE	5	C		29.85	+ .23	41	39	- 2	ENE	4	C	4		42	40	-
Parsonstown ...	29.73	45	NE	1	0		29.88	+ .23	41	39	+ 3	NE	1	0	*		51	37	0.01
Valencia ...	29.73	49	NTW	2	bv		29.85	+ .15	45	43	- 1	NE	3	bc	3		52	38	-
Roche's Point...	29.71	47	SE	1	C		29.82	+ .18	46	42	+ 4	NE	3	b	3		50	40	-
Pembroke ...	29.68	45	NW	1	r		29.77	+ .17	42	41	- 1	ENE	4	cpq	2		49	41	0.26
Scilly ...	29.63	47	NNE	3	0		29.70	+ .14	47	45	+ 2	NE	3	0	3		48	43	0.04
Prawle Point ...	29.64	48	NE	2	C		29.72	+ .17	43	42	- 1	ENE	5	og	3		50	40	0.16
Jersey ...	29.59	47	NW	2	cp		29.67	+ .14	45	44	- 2	NE	2	om	2		51	43	0.08
FRANCE & NETHERLANDS.																			
Hurst Castle ...	29.62	45	NE	1	C		29.70	+ .13	43	43	- 2	NE	4	e	2		53	42	0.37
Dungeness ...	29.58	45	E	4	C		29.63	+ .07	41	40	- 4	ENE	5	r	4		52	40	0.15
London ...	29.64	47	NE	3	0		29.69	+ .10	40	40	- 3	NE	2	0	*		52	40	0.09
Oxford ...	29.64	42	NE	4	r		29.75	+ .13	39	38	- 3	NE	3	od	*		51	39	0.07
Cambridge ...	29.66	45	N	2	0		29.73	+ .08	39	38	+ 2	N	2	r	*		49	35	0.03
Yarmouth ...	29.64	42	ENE	4	C		29.67	+ .07	41	39	- 1	NNE	4	C	4		44	37	0.02
Cuxhaven ...	29.64	40	NE	3	0		29.55	- .12	40	39	+ 2	W	1	C	*		41	38	-
Berlin ...	29.60	46	NW	3	0		29.56	- .02	43	42	+ 2	ESE	2	0	*		52	41	-
Wiesbaden ...	*	*	*	*	*		29.58	- .00	42	41	- 4	SW	1	0	*		50	39	0.04
Munich ...	29.65	40	SW	1	bc		29.62	- .02	40	37	+ 3	W	2	bc	*		48	32	0.16
PENINSULA.																			
The Helder ...	29.66	41	NE	2	C		29.58	- .05	39	37	- 4	N	2	C	3		45	37	-
Brussels 9.A.M.	*	*	*	*	*		29.58	- .03	42	41	0	NNE	1	0	*		48	42	0.08
Cape Gris Nez...	?	43	ENE	4	r		?	?	41	40	- 3	NE	5	r	5		50	41	0.12
Paris ...	29.53	48	NNE	1	bc		29.60	+ .04	44	42	- 1	NW	1	0	*		54	41	0.16
Brest ...	29.68	46	NW	3	a		29.72	+ .10	42	41	- 2	Z	0	b	1		52	39	-
Lorient ...	29.63	48	NNW	2	b		29.62	+ .04	45	43	+ 1	NNE	2	0	2		52	43	0.04
Rochefort ...	29.71	50	NNW	3	bc		29.74	+ .12	47	43	- 1	WNW	4	bc	2		57	39	-
Belfort ...	29.63	39	W	1	0		29.64	- .01	49	45	+ 1	W	1	0	*		54	33	0.12
Lyons ...	29.62	52	W	3	C		29.69	- .00	42	40	- 2	NNW	1	0	*		64	39	-
Nice ...																			
Perpignan ...	29.67	53	SE	1	0		29.72	- .03	49	44	+ 2	W	2	0	*		62	44	-
Biarritz ...	29.72	50	W	5	0		29.76	+ .05	46	45	- 3	WNW	5	r	2		54	43	0.20
Corunna ...	*	*	*	*	*		29.84		51	48		E	1	b	4		57	39	0.16
Lisbon ...	29.89	51	W	3	C		29.95	+ .12	51	48	+ 3	Z	0	b	2		57	46	0.04

For Explanation of Columns, see p. 4.

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

WEATHER CHARTS

for 8 a.m. on Saturday, 13th April.

1889.

BAROMETER, WIND & 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 11 to 15;
 — forces 16 to 20; — forces 21 to 25;
 ○ — dead calm.

Sea Disturbance — where considerable is shown thus.

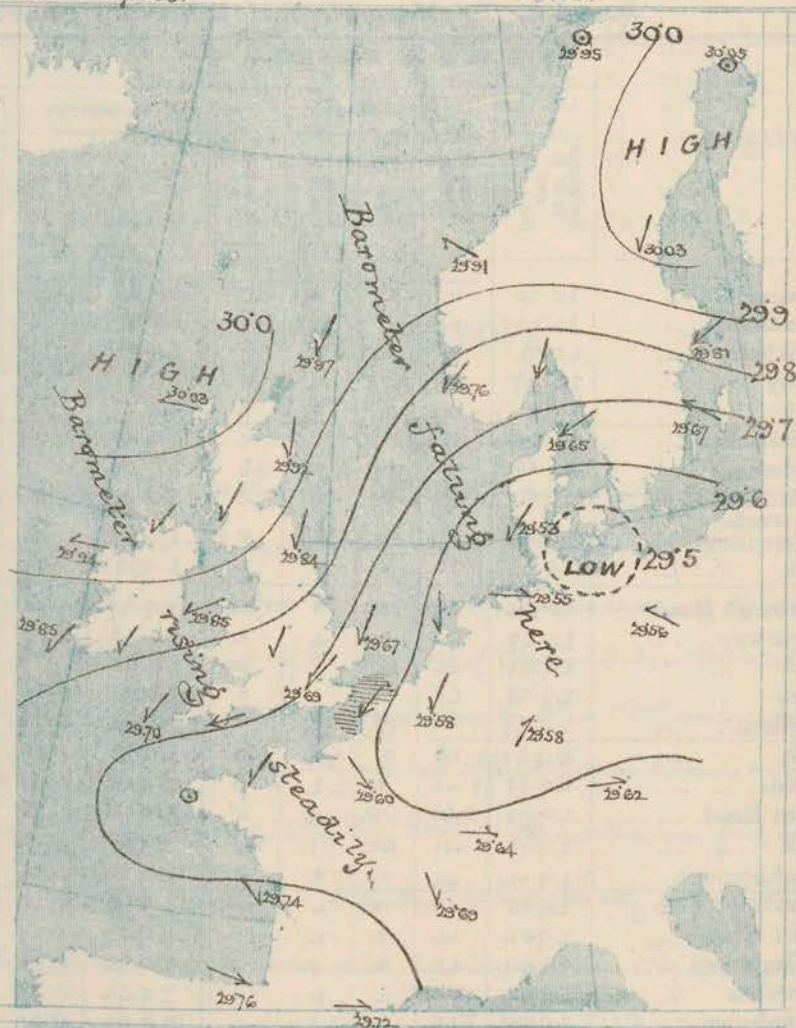
— Rough — High.

MEAN HEIGHT of the BAROMETER

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

During the 15 Years 1871—1885.

STATIONS.	MEAN READINGS.
Sumburgh Head	29.840
Stornoway	29.821
Wick	29.858
Nairn	29.853
Aberdeen	29.862
Leith	29.865
Shields	29.870
York	29.877
Loughborough	29.878
Ardrossan	29.857
Donaghadee	29.853
Holyhead	29.851
Liverpool	29.864
Parsonstown	29.853
Valencia	29.835
Roche's Point	29.838
Pembroke	29.844
Scilly	29.849
Jersey	29.867
Hurst Castle	29.867
Dover	29.833
LONDON	29.877
Oxford	29.882
Cambridge	29.879
Yarmouth	29.876



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.

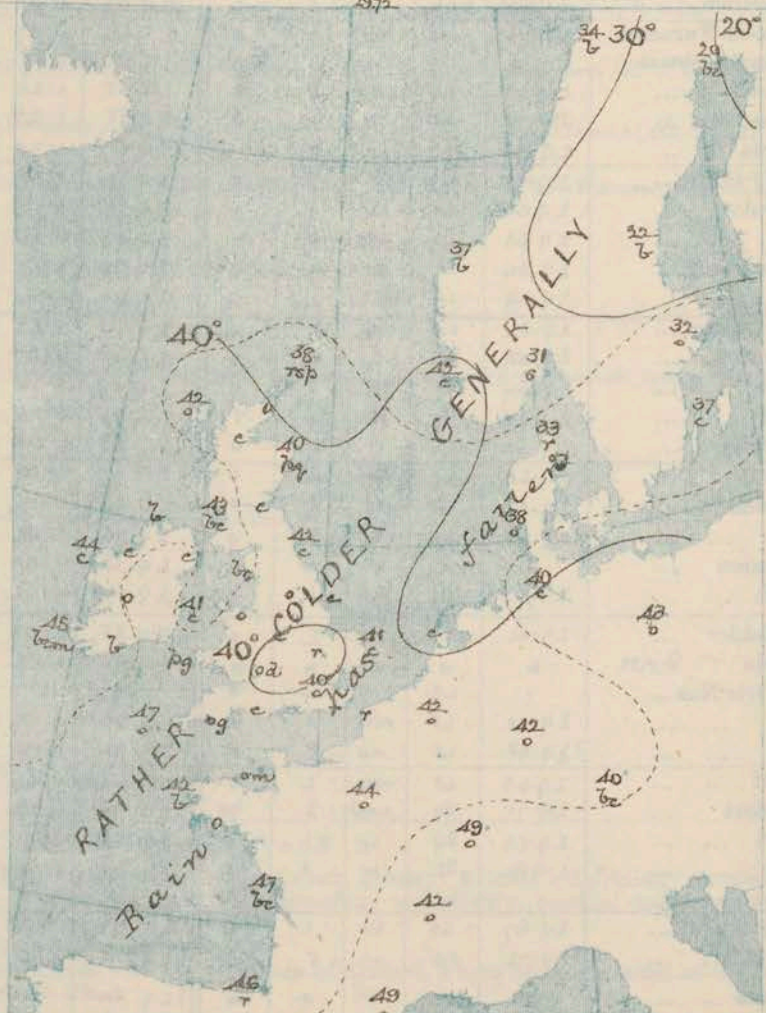
MEANS OF TEMPERATURE IN SHADE.

AND RAINFALL.

for the month of April.

STATIONS.	TEMPERATURE.				RAINFALL. (Inches)
	Daily Max.	Daily Min.	at 8 a.m. Dry.	Wet.	
Sumburgh Head	46.3	37.3	41.9	40.5	2.16
Stornoway	46.3	37.5	44.1	42.3	2.51
Wick	49.2	37.4	43.2	41.2	1.56
Nairn	51.5	37.9	43.1	40.6	1.23
Aberdeen	49.8	38.5	43.4	40.9	2.23
Leith	52.6	38.2	44.2	42.1	1.65
Shields	49.2	39.2	43.8	41.7	1.94
York	54.1	37.8	44.1	42.0	1.86
Loughborough	55.7	38.3	45.1	42.6	1.77
Ardrossan	52.1	39.9	44.6	42.2	2.23
Donaghadee	51.3	40.1	44.8	43.2	2.02
Holyhead	51.9	42.4	46.2	44.2	1.86
Liverpool	53.0	40.7	45.5	42.6	1.56
Parsonstown	55.0	38.3	45.7	43.0	2.15
Valencia	54.3	43.9	48.4	45.9	4.01
Roche's Point	54.2	42.4	47.0	44.9	3.43
Pembroke	50.8	42.1	45.8	43.6	2.10
Scilly	52.5	45.0	49.0	47.1	2.45
Jersey	54.6	43.6	49.0	46.4	2.04
Hurst Castle	52.3	41.4	45.9	44.6	1.37
Dover	51.5	42.4	47.1	44.5	1.81
LONDON	56.7	40.0	46.8	43.8	1.86
Oxford	55.1	39.3	45.0	42.7	1.79
Cambridge	56.2	37.7	45.5	43.3	1.76
Yarmouth	49.5	40.4	45.1	43.4	1.80

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



GENERAL SITUATION AT 8 A.M.

PRESSURE

Highest, 29.9 in. to 30.0 in. and more, both over the northwestern and northern parts of our islands and the north of Scandinavia, 29.8 in. to 29.9 in. over Spain.
 Lowest, 29.5 in. and less, in a depression which had advanced northward from Britain to the neighbourhood of Helsing.
 Gradient, moderate over the North Sea, slight elsewhere.
 Barometer, rising over the western parts of our area, falling over the North Sea.

TEMPERATURE

Highest, 51° at Lister, 49° at Riga, 47° at Rochefort and Lally, 43° at Malin Head.
 Lowest, 20° at St. Petersburg, 21° at Helsing, 32° at Stockholm, 38° at Limerick Head, 40° at Aberdeen, and 41° at Carronston.
 It is low generally for the time of year, but no frost is reported over our islands.

WIND

Strong from E. in the south of Sweden, and from N.E. in the Skagerrack.
 Moderate from N. and N.E. over the North Sea and British Islands.
 Moderate or light from N.W. and W. over Spain, the Bay of Biscay and France.

WEATHER

Fair as a whole in the western and southwestern parts of our area (but rainy at Biarritz) - cloudy in the east, with rain in some places.

SEA

Moderate in the north and east, slight elsewhere.

PROBABLE CHANGES IN SYSTEM NOW PREVALENT

Cold N^w winds appear likely to continue during the coming day, with some cold showers at all but the more western stations. That is probable over the inland parts of Ireland to night.

FORECASTS

for the 24 hours ending at NOON on 14th APRIL 1889.

DISTRICTS.

FORECASTS.

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

N^w winds, increasing in force;
 cold rain or sleet.
 NE^w or N^w winds, moderate or fresh;
 cold showers then finer.

DISTRICTS.

FORECASTS.



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

NE winds, backing later, moderate;
 some cold showers.

NE winds, moderate or light; cold,
 fair as a whole.

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

YESTERDAY'S 2 P.M. REPORTS.

	Bar.	Dry.	Wet.	Wind.	Wca.	Sea.		Bar.	Dry.	Wet.	Wind.	Wca.	Sea.
Skudesnaes ...	29.90	50	41	NE 4	6	2	Holyhead ...	29.70	49	45	E 4	c m	3
Sumburgh Head ...	30.02	45	42	NE 3	6c	4	Valencia ...	29.71	51	46	W 3	bcv	3
Stornoway ...	29.95	45	44	E 4	0	4	Scilly ...	29.60	48	44	N 4	c	4
Aberdeen ...	29.96	41	39	E 6	0 q/p	5	Jersey ...	29.57	48	46	W 3	c	3
Shields ...	29.81	41	40	E 3	p	4	Dungeness ...	29.58	47	45	E 5	c	5
Ardrossan ...	29.82	45	43	NE 4	0	2	London ...	29.62	50	45	S 0	0	*
Malin Head ...	29.79	45	44	ESE 5	0	4	Yarmouth ...	29.63	43	43	E 4	cv	4
Mullaghmore ...	29.74	46	44	E 5	0 q/m	4	Rochefort ...	29.70	55	49	W 4	bc	2
Belmullet ...	29.72	47	45	E 3	0	*							

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

The reports for yesterday morning showed that pressure was still highest, 30.2 ins: and upwards, over Lapland and Finland, but high 29.9 ins: and upwards to the southward of Spain and apparently over Central Algeria. The lowest pressure, 29.5 ins: and less, were found in three small depressions, two of which lay over Eastern Germany, while the other was situated over the north of France, but a large trough of low readings 29.6 ins: and less, extended from Poland and Eastern Austria to the northern parts of France and the south of England. Light to fresh E or NE breezes continued to prevail over nearly the whole of Northern Europe and the greater part of our Islands, but in the north of Scotland the wind was strong from the SE. Over Central Europe light variable airs were reported, while over the more southern countries the wind was chiefly W or SW, but in Algeria light S breezes were general. The weather was fine over the northern parts of Scandinavia and Russia, as well as in Spain, France, and Northern Italy. Elsewhere, however, the sky was cloudy or overcast, with fog at many of the Russian stations, and rain in many parts of the United Kingdom and Germany and also in Algeria. Temperature had changed little and irregularly, and readings ranged from a little above 50° at the Mediterranean stations to a few degrees below the freezing point over Sweden and Finland, and to very little above zero on the shores of the White Sea. The highest individual readings were 60° at Sfor, 59° at Brindisi, 58° at La Balla, 57° at Legna, 56° at Cagliari, and 55° at Barcelona, Ligny, Nemours and Algiers; the lowest were 4° at Archangel, 21° at Kuopio, 26° at Haparanda and Umeå, 31° at Stockholm, Helsingfors, and St Petersburg, 32° at Hango and Moscow, 33° at Freder and Kagen, 35° at Copenhagen and 36° at Rode, Nealy, and Lornemunde.

In the course of the day the depression over the north of France gradually filled up, but the disturbances over Germany appear to have advanced northwards towards Denmark. No important change was observed in the winds or weather.

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 14th April 1889
 Issued by the Meteorological Office 63 Victoria Street, London. F. H. SCOTT, Secretary.

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.	S. a. (0 to 9.)	SHADE TEMP.		A. (0 to 12.)	P. (0 to 12.)
			Dir.	Force (0 to 12.)		Reading at 32° F. and Sea Level.	Difference from 8 a.m. yesterday.	Dry.	Wet.	Difference from 8 a.m. yesterday.	Dir.	Force (0 to 12.)			Max.	Min.		
SCANDINAVIA.																		
Haparanda ..	29.86	19	Z	0	b	29.65	- .40	21	19	+ 1	Z	0	c	*	36	12	—	—
Hernösand ...	29.87	23	Z	0	b	29.66	- .37	25	23	+ 3	Z	0	bc	*	41	14	—	—
Stockholm ...	29.73	32	NE	4	o	29.58	- .23	33	32	+ 1	N	2	o	*	36	28	0.04	—
Wisby ...	29.65	37	E	4	o	29.54	- .13	34	34	— 3	NNE	2	f	*	46	34	—	—
Bodö ...	29.75	34	S	2	o	29.39	- .56	32	34	— 2	ESE	4	s	2	39	30	—	—
Christiansund...	29.80	39	ENE	2	b	29.57	- .34	37	36	0	WSW	4	r	4	45	34	0.04	—
Skudesnaes ...	29.73	41	WNW	2	o	29.69	- .07	39	35	— 3	NW	6	c	4	47	?	—	—
Christiania Fjord (Fjord)	29.73	38	NNE	3	o	29.63	- .16	37	33	+ 6	NE	2	c	4	39	31	—	—
Skagen (The Scaw)	29.63	35	E	5	r	29.59	- .06	35	34	+ 2	NE	1	o	1	37	32	0.08	—
Fanö ...	29.56	39	NE	1	o	29.58	+ .05	38	38	0	NE	2	o	*	41	27	—	—
BRITISH ISLANDS.																		
Sumburgh Head	29.94	38	N	3	o	29.85	- .12	42	39	+ 4	NNW	3	bc	3	43	33	0.02	—
Stornoway ...	30.04	41	E	4	o	29.96	- .07	42	41	0	Z	0	c	2	45	34	0.02	—
Wick ...	29.95	39	N	4	o	29.90	- .08	43	40	+ 3	N	3	c	2	43	38	—	—
Nairn ...	29.97	40	ENE	3	o	29.85	- .12	40	38	0	Z	0	c	1	45	38	—	—
Aberdeen...	29.91	40	N	5	c	29.92	.00	40	38	0	NNW	3	cp	4	43	36	0.04	—
Leith ...	29.90	39	E	1	o	29.94	+ .01	39	35	— 4	WNW	1	om	*	46	35	0.04	—
Shields ...	29.80	40	N	4	o	29.85	+ .01	40	37	— 2	NNW	5	cp	5	46	37	0.02	—
Spurn Head ...	29.68	42	N	6	r	29.70	- .01	41	40	— 1	NNE	4	r	4	44	37	0.17	—
York ...	29.75	41	N	3	c	29.78	- .04	41	39	— 2	NNE	3	o	*	46	38	0.02	—
Loughborough	29.77	42	NNE	3	o	29.77	- .01	39	38	— 1	N	2	r	*	46	37	0.15	—
Ardrossan ...	29.90	44	NNE	3	o	29.95	+ .03	43	39	0	NN	1	b	1	47	32	—	—
Malin Head ...	29.94	44	N	4	bc	29.98	+ .02	40	37	— 3	NNE	4	o	3	45	39	—	—
Mullaghmore ...	29.94	46	NNE	6	c	30.00	+ .06	42	38	0	NNE	5	c	3	52	40	—	—
Belmullet ...	29.99	45	NE	4	c	30.03	+ .09	43	40	— 1	NNE	5	c	*	49	40	—	—
Donaghadee ...	29.91	44	NE	3	c	29.97	+ .05	41	37	— 1	NNE	5	b	3	49	40	—	—
Barrow-in-Furness	29.83	43	N	3	o	29.86	+ .04	40	37	0	NN	2	o	*	49	39	—	—
Liverpool (Bidston)	29.82	42	N	3	o	29.86	+ .02	39	37	— 3	N	3	o	4	45	37	0.09	—
Holyhead ...	29.86	42	NNE	4	c	29.89	+ .04	41	38	0	NNE	5	og	5	45	40	—	—
Parsonstown ...	29.90	46	Z	0	o	29.97	+ .09	41	39	0	NE	2	o	*	47	39	—	—
Valencia ...	29.91	48	NNE	4	o	29.97	+ .02	44	41	— 1	NE	3	c	3	50	41	—	—
Roche's Point...	29.88	45	ENE	1	r	29.92	+ .04	43	40	— 3	NE	3	o	3	47	40	—	—
Pembroke ...	29.87	45	NNE	3	c	29.92	+ .07	43	41	+ 1	NNE	5	bc	2	45	38	0.01	—
Scilly ...	29.76	47	NE	4	o	29.80	+ .04	47	42	0	NE	5	bc	4	48	34	—	—
Prawle Point ...	29.48	44	NE	2	o	29.79	+ .07	44	41	+ 1	NNE	3	bc	2	51	37	—	—
Jersey ...	29.44	45	NNW	3	o	29.78	+ .11	47	42	+ 2	NNW	3	cm	3	48	43	0.01	—
Hurst Castle ...	29.44	45	NNE	3	c	29.76	+ .06	40	39	— 3	NNE	3	c	2	46	38	—	—
Dungess ...	29.66	45	N	5	c	29.66	+ .03	39	38	— 2	NNW	4	r	3	50	37	0.07	—
London ...	29.72	44	N	3	op	29.71	+ .02	38	37	— 2	NNW	2	or	*	47	37	0.10	—
Oxford ...	29.76	41	NNE	2	o	29.76	+ .01	38	37	— 1	NNW	3	org	*	46	36	0.06	—
Cambridge ...	29.70	40	N	2	r	29.72	- .01	40	40	+ 1	N	1	r	*	49	36	0.18	—
Yarmouth ...	29.65	39	N	4	c	29.66	- .01	41	40	0	NNE	4	cg	4	43	36	0.24	—
Cuxhaven ...	29.55	39	ENE	1	c	29.58	+ .03	40	39	0	NNE	1	c	*	42	39	—	—
Berlin ...	29.52	47	NW	3	o	29.53	- .03	43	41	0	NW	3	o	*	48	41	0.04	—
Wiesbaden ...	*	*	*	*	*	29.62	+ .04	42	40	0	W	3	r	*	50	41	0.08	—
Munich ...	29.62	43	SW	5	c	29.66	+ .04	41	39	+ 1	W	5	bc	*	50	36	0.24	—
FRANCE & NETHERLANDS.																		
The Helder ...	29.55	40	NNW	1	r	29.61	+ .03	41	39	+ 2	NNE	2	c	1	41	29	0.04	—
Brussels ...	*	*	*	*	*	29.65	+ .07	40	38	— 2	WSW	3	m	*	44	35	—	—
Cape Gris Nez...	?	41	N	4	o	?	?	37	37	— 4	N	5	r	5	46	37	0.16	—
Paris ...	29.65	46	NNE	2	o	29.73	+ .13	41	39	— 3	W	3	o	*	52	39	0.24	—
Brest ...	29.48	50	N	4	o	29.81	+ .09	42	40	0	E	1	o	2	54	39	—	—
Lorient ...	29.71	47	N	1	b	29.76	+ .14	43	41	— 2	NE	3	b	2	54	41	0.08	—
Rochefort ...	29.77	50	N	5	c	29.78	+ .04	44	41	— 3	NE	2	c	2	57	37	—	—
Belfort ...	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
Lyons ...	29.67	49	WNW	2	bc	29.75	+ .06	45	40	+ 3	W	2	bc	*	52	41	—	—
Nice ...	29.58	49	E	4	c	29.63	+ .04	50	39	+ 2	NNW	4	b	1	61	40	—	—
Perpignan ...	29.76	57	NW	3	o	29.82	+ .10	48	45	— 1	Z	0	b	*	59	37	—	—
Biarritz ...	29.82	57	WNW	3	bc	29.75	- .01	42	40	— 4	SE	3	o	2	52	39	0.08	—
PENIN. SULL.																		
Corunna ...	*	*	*	*	*	29.64	- .20	51	48	0	S	1	c	3	57	41	0.20	—
Lisbon ...	29.84	52	SW	7	r	29.52	- .43	54	53	+ 3	WSW	5	o	6	57	50	2.09	—

For Explanation of Columns, see p. 4.

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

WEATHER CHARTS

for 8 a.m. on

Sunday, 14th April,

1889.

BAROMETER, WIND & 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.

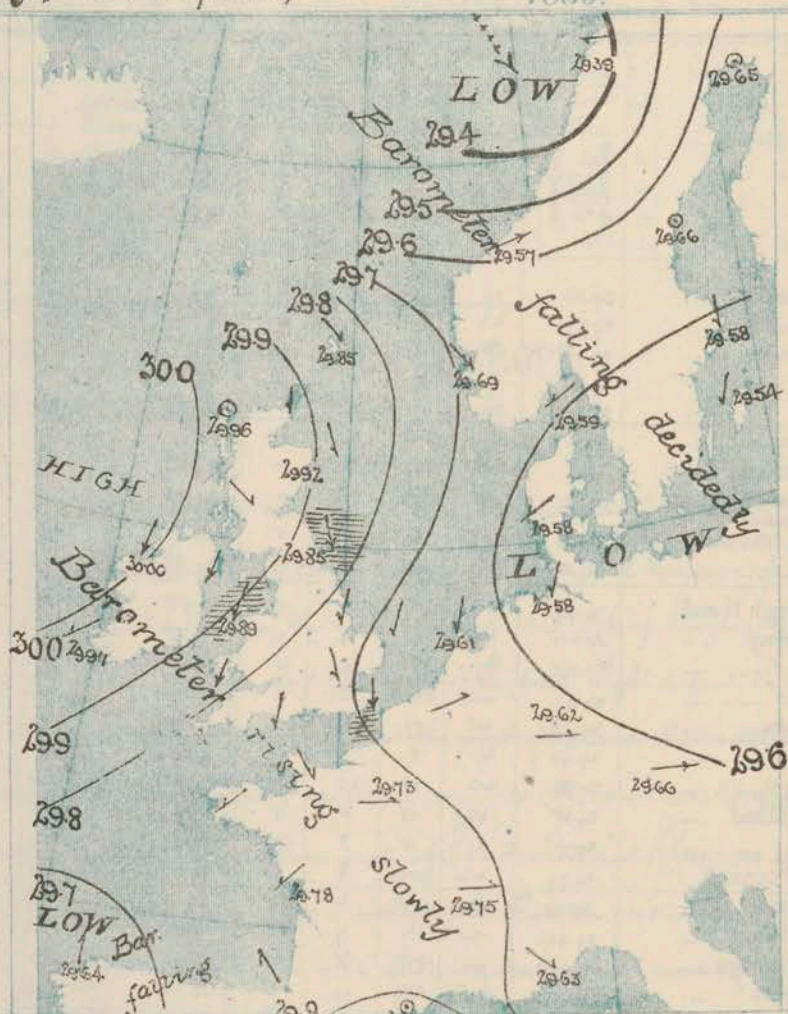
Sea Disturbance — where considerable is shown thus.

— Rough — High.

MEAN HEIGHT of the BAROMETER

at 6 a.m. for the month of April.
During the 15 Years 1871—85.

STATIONS.	MEAN READINGS.
Sumburgh Head	29.849
Stornoway	29.821
Wick	29.853
Nairn	29.853
Aberdeen	29.862
Leith	29.865
Shields	29.870
York	29.877
Loughborough	29.878
Ardrossan	29.857
Donaghadee	29.853
Holyhead	29.851
Liverpool	29.864
Parsonstown	29.863
Valencia	29.835
Roche's Point	29.838
Pembroke	29.844
Scilly	29.849
Jersey	29.867
Hurst Castle	29.867
Dover	29.866
LONDON	29.877
Oxford	29.882
Cambridge	29.879
Yarmouth	29.876



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 April.

STATIONS.	TEMPERATURE.				RAINFALL. (Inches.)
	Daily Max.	Daily Min.	at 8 a.m.		
			Dry.	Wet.	
Bumburgh Head	46.3	37.3	41.9	40.5	2.16
Stornoway	43.3	37.5	44.1	42.3	2.51
Wick	49.2	37.4	43.2	41.2	1.56
Nairn	51.5	37.9	43.1	40.6	1.23
Aberdeen	40.6	38.5	43.4	40.9	2.23
Leith	52.6	38.2	44.2	42.1	1.65
Shields	49.2	39.2	43.8	41.7	1.94
York	54.1	37.8	44.1	42.0	1.86
Loughborough	55.7	38.3	45.1	42.6	1.77
Ardrossar	52.1	39.9	44.6	42.3	2.23
Donaghadee	51.3	40.1	44.8	43.2	2.02
Holyhead	51.9	42.4	46.2	44.2	1.86
Liverpool	53.0	40.7	45.5	42.6	1.56
Parsonstown	55.0	38.3	45.7	43.0	2.15
Valencia	54.3	42.9	43.4	45.9	4.01
Roche's Point	54.2	42.4	47.0	44.9	3.43
Pembroke	50.6	42.1	45.6	43.6	2.10
Scilly	52.5	45.0	49.0	47.1	2.45
Jersey	54.8	45.6	49.0	46.4	2.04
Hurst Castle	52.3	41.4	45.9	44.0	1.87
Dover	51.5	42.4	47.1	44.5	1.81
LONDON	53.7	40.0	43.8	43.8	1.86
Oxford	55.1	39.3	45.0	42.7	1.79
Cambridge	56.2	37.7	45.5	43.3	1.76
Yarmouth	49.5	40.4	45.1	43.4	1.80

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



GENERAL SITUATION AT 8 A.M.

PRESSURE

Highest, 30.0 in: and upwards, in an anticyclone lying to the Wnd of our Islands.
 Lowest, 29.4 in: and less, in a depression lying off the north^{west} of Norway; 29.5 in: and less, over the southern part of the Baltic; 29.6 in: and less over Bohemia.
 Gradients slight and irregular. Barometer falling briskly in the north of Scandinavia and also in Bohemia, but rising elsewhere.

TEMPERATURE

Highest, 54° at Lisbon, 51° at Genoa, 50° at Nice, 48° at Copenhagen, 47° at Skilly and Jersey and 45° at Lyons.
 Lowest, 24° at Haparanda, 25° at Helsingfors, 32° at Rostock, 33° at Stockholm, 34° at Maly, 35° at Kopen and 37° at Christiania. Lander and O. F. N. N.

WIND

Light to fresh from the Nnd or NEnd over our Islands, Denmark and the north and west of France.
 Strong from WSW at Christiania; moderate from E. at Rostock; calm in the north of Sweden.
 Light to fresh from W in Germany; fresh from SW at Lisbon; light from SE at Helsingfors.

WEATHER

Fine in the west and north of our Islands and fine in the south of France.
 Cloudy or overcast elsewhere, with rain in the south of Ireland and also at Christiania and Rostock.
 Thunderstorms were experienced last evening at Lorient and Munich.

SEA

Rather rough at Shields, Holyhead and O. F. N. N. but moderate to smooth elsewhere.

PROBABLE CHANGES IN SYSTEM NOW PREVALENT

FORECASTS

for the 24 hours ending at NOON on 15th April 1889.

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 NORTH CONE was hoisted yesterday in districts 1, 2, and part of 3.

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

YESTERDAY'S 2 P.M. REPORTS.

	Bar.	Dry.	Wet.	Wind.	Wes.	Sea.		Bar.	Dry.	Wet.	Wind.	Wes.	Sea.
Skudesnaes ...	29.75	47	40	WNW 4	0	2	Holyhead ...	29.87	45	42	NNE 4	C	4
Sumburgh Head ...	29.95	41	38	NNE 3	0	4	Valencia ...	29.90	48	44	NE 4	om	4
Stornoway ...	30.04	42	41	E 5	0	4	Scilly ...	29.76	48	45	NE 4	0	4
Aberdeen ...	29.91	39	37	NNE 6	cpu	5	Jersey ...	29.73	48	45	NE 3	C	3
Shields ...	29.82	44	41	NNE 4	C	5	Dungeness ...	29.66	47	47	NE 5	C	4
Ardrossan ...	29.91	46	42	NNE 3	0	2	London ...	29.71	46	42	NE 2	ogm	*
Malin Head ...	29.96	45	44	NNE 4	6	3	Yarmouth ...	29.66	41	40	N 4	or	
Mullaghmore ...	29.94	50	46	ESE 4	C	2	Rechefort ...	29.76	54	48	WNW 4	bc	2
Belmullet ...	29.99	49	46	NE 4	6	*							

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

The reports for yesterday morning showed that the distribution of pressure over Europe was of a complex character. Readings were as high as 30.0 ins. to 30.3 ins. over Northern Europe, and 29.9 ins. to 30.0 ins. and more both over the northwestern part of the British Isles and the southwestern half of the Spanish Peninsula; while it was below 29.6 ins. in a large low pressure ^{area} covering central Europe (in which also there were three distinct minimas) and below 29.7 ins. in a hollow extending thence in a westerly direction over the Channel and north of France. E³ and NE² winds were consequently prevalent over the Baltic, North Sea, and British Isles, and blew strongly at the more southern of the Scandinavian stations. NW² winds prevailed over the Bay of Biscay, France, and Spain, and in all other regions the wind was very variable. The weather was clear in the far north, cloudy and changeable elsewhere, with rain in several places, snow at Lander. Temperature was as low as 4° F. at Archangel, 20° F. at Haparanda, 22° at Helsingfors and Kuopio, 32° at Stockholm, 33° at Helsingfors, and below 40° at the Baltic stations generally and at Oxford. On the other hand it stood at 53° at Brindisi and Tunis, 58° at Malta and Cagliari, 55° at Algiers, 54° at Lybourn, 53° at Naples, and 51° on the Portuguese coast. Throughout our Islands (excepting Scilly) it varied from 38° to 46°; in London and at Madrid it was 40°, at Berlin 43°, and at Paris 44°.

Later in the day the depression over Central Europe appeared to be spreading westwards across the North Sea to our Islands, and the N² wind increased to a slight gale on our north-east coast, while cold rain fell in several parts of Great Britain.

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, 15th April, 1889.*
 Issued by the Meteorological Office, 63 Victoria Street, London. R. H. SCOTT, Secretary.

STATIONS.	† YESTERDAY EVENING.					8 A.M. TO DAY.										PAST 24 HOURS.		
	Barometer at 32° F. and Sea Level.	Temp. in Shade.	WIND.		Weather.	BAROMETER.		SHADE TEMP.			WIND.		Weather.	Sea. (0 to 9.)	SHADE TEMP.		Amount of Rainfall.	
			Dir.	Force. (0 to 12.)		Reading at 8 a.m. and Sea Level.	Difference from 8 a.m. yesterday.	Dry.	Wet.	Difference from 8 a.m. yesterday.	Dir.	Force. (0 to 12.)			Max.	Min.		
SCANDINAVIA.																		
Haparanda ..	29.39	30	NE	2	0	29.24	- .41	28	27	+ .7	NNE	4	0	*	37	7	0.04	
Hernösand ...	29.37	30	SE	0	0	29.26	- .40	32	31	+ .7	NNE	4	S	*	36	10	-	
Stockholm ...	29.41	33	SE	0	S	29.22	- .36	29	28	- .4	NW	2	0	*	45	?	0.12	
Wisby ...	29.39	35	N	4	C	29.31	- .23	32	31	- .2	NNW	4	0	*	43	30	0.04	
Bodö ...	29.38	33	E	2	0	29.45	+ .06	29	28	+ .3	N	8	S	5	34	27	-	
Christiansund...	29.60	37	NNW	4	S	29.62	+ .05	34	32	- .3	NNW	4	S	5	37	30	0.24	
Skudesnaes ...	29.70	37	NNW	8	C	29.71	+ .02	39	36	0	NW	7	0	4	43	34	-	
Christiania Fjord (Færdø)	29.46	40	NNW	2	0	29.48	- .15	38	32	+ .1	WNW	4	0	1	?	36	-	
Skagen (The Scaw)	29.45	37	WNW	1	0	29.48	- .11	37	35	+ .2	N	3	0	2	41	34	-	
Fanö ...	29.62	37	NW	4	bc	29.59	+ .01	40	37	+ .2	NW	4	C	*	43	36	-	
BRITISH ISLANDS.																		
Sumburgh Head	29.86	38	NNW	2	0	29.90	+ .05	36	35	- .6	N	3	0	3	46	32	0.03	
Stornoway ...	29.95	48	N	4	C	30.01	+ .05	43	42	+ .1	N	5	C	4	49	35	0.02	
Wick ...	29.91	42	NW	4	C	29.96	+ .06	40	38	- .3	N	4	C	2	48	35	0.02	
Nairn ...	29.93	47	WNW	3	0	30.00	+ .15	40	37	0	NNE	2	C	1	50	38	0.01	
Aberdeen...	29.92	45	NW	2	0	29.97	+ .05	39	37	- .1	NW	4	C	3	48	36	0.03	
Leith ...	29.93	46	E	1	0	29.97	+ .03	43	40	+ .4	NE	1	om	*	48	36	-	
Shields ...	29.92	43	N	3	bc	29.94	+ .09	42	40	+ .2	N	3	0	4	44	34	-	
Spuen Head ...	29.86	41	NNE	4	C	? 29.85	+ .12	42	40	+ .1	NW	4	C	4	45	38	0.02	
York ...	? 29.87	42	N	3	C	? 29.91	+ .13	41	39	0	NNW	2	C	*	45	30	-	
Loughborough	29.89	41	NNE	2	0	29.96	+ .19	42	39	+ .3	WNW	2	0	*	42	36	0.05	
Ardrossan ...	29.93	48	W	2	0	29.96	+ .01	45	43	+ .2	NW	2	C	1	48	36	-	
Main Head ...	30.00	45	N	1	0	30.04	+ .06	43	42	+ .3	N	4	op	3	46	40	-	
Mullaghmore ...	30.01	47	NNW	5	C	30.07	+ .07	45	43	+ .3	NNW	2	C	2	50	41	-	
Belmullet ...	30.05	47	NNE	3	bc	30.10	+ .07	47	46	+ .4	N	3	0	*	48	41	-	
Donaghadee ...	29.98	45	NNE	3	0	30.01	+ .04	45	44	+ .4	N	4	bc	2	47	38	-	
Barrow-in-Furness	29.91	46	N	2	bc	29.96	+ .10	42	40	+ .2	NW	2	C	*	49	38	-	
Liverpool (Bidston)	29.91	42	NE	1	bc	29.99	+ .13	43	40	+ .4	W	2	C	3	45	36	-	
Holyhead ...	29.94	43	NNE	5	0	30.01	+ .12	45	43	+ .4	NNW	1	C	2	45	37	-	
Parsonstown ...	29.97	48	NW	1	C	30.06	+ .09	38	36	- .3	SE	0	0	*	50	30	-	
Valencia ...	30.00	48	N	3	bc	30.10	+ .13	45	42	+ .1	N	1	bc	2	49	37	-	
Roche's Point...	29.96	47	NE	2	0	30.04	+ .12	43	40	0	N	2	0	3	49	34	-	
Pembroke ...	29.90	44	NNE	4	C	30.00	+ .16	43	41	0	NE	3	0	1	46	37	-	
Scilly ...	29.83	47	NE	5	0	29.94	+ .14	45	41	- .2	ESE	5	0	4	48	43	-	
Prawle Point ...	29.83	43	NE	4	0	29.95	+ .16	43	40	- .1	NE	5	bc	3	48	39	-	
Jersey ...	29.81	44	N	3	0	29.90	+ .12	45	42	- .2	NE	4	om	3	48	43	-	
Hurst Castle ...	29.81	44	NNE	4	C	29.95	+ .19	40	39	0	NE	4	C	2	45	38	0.01	
Dungeness ...	29.81	39	NE	4	C	29.89	+ .23	40	38	+ .1	NE	4	0	3	45	39	0.02	
London ...	29.80	43	NNE	2	odp	29.94	+ .23	40	37	+ .2	NNE	2	odp	*	44	38	0.02	
Oxford ...	29.90	40	NE	3	0	29.98	+ .22	40	37	+ .2	N	2	0	*	43	36	0.03	
Cambridge ...	29.86	40	N	2	0	29.94	+ .22	42	40	+ .2	NNW	1	bc	*	43	34	0.05	
Yarmouth ...	29.77	41	NNE	4	0	29.87	+ .21	43	32	+ .2	N	3	C	4	43	37	0.02	
Cuxhaven ...	29.68	40	NW	3	0	29.66	+ .08	41	39	+ .1	NNW	6	bc	*	42	39	-	
Berlin ...	29.62	43	WNW	4	0	29.60	+ .07	41	39	- .2	? WNW	5	0	*	46	39	0.04	
Wiesbaden ...	*	*	*	*	*	29.79	+ .17	?	40	?	SE	0	0	*	?	?	-	
Munich ...	29.75	41	SW	4	0	29.79	+ .13	41	39	0	SW	4	C	*	50	34	0.12	
GERMANY.																		
The Helder ...	29.76	40	NNE	2	0	29.80	+ .19	41	39	0	NNW	2	C	2	45	39	-	
Brussels DAM.	*	*	*	*	*	29.86	+ .21	40	39	0	NNE	1	0	*	44	40	0.08	
Cape Gris Nez...	?	42	NE	3	0	?	?	40	39	+ .3	NE	4	0	4	46	?	0.04	
Paris ...	29.76	44	NNW	2	0	29.86	+ .13	42	39	+ .1	NNE	2	0	*	49	41	-	
Brest ...	? 29.84	47	ESE	4	0	? 29.90	+ .09	45	43	+ .3	ESE	3	0	2	54	37	-	
Lorient ...	29.76	47	NNW	2	0	29.83	+ .07	40	38	- .3	E	4	0	2	54	37	0.08	
Rochefort ...	29.74	55	NE	3	bc	29.78	00	43	41	- .1	ESE	5	bc	2	64	36	-	
Belfort ...	29.73	37	W	1	0	? 29.81	?	46	42	?	W	1	bc	*	51	35	0.20	
Lyons ...	29.69	51	N	1	bc	29.82	+ .07	41	39	- .4	N	1	0	*	59	37	-	
Nice ...	29.70	50	WSW	6	C	29.77	+ .14	47	44	- .3	E	2	0	3	63	45	-	
Perpignan ...	29.64	57	S	3	0	29.67	- .15	52	49	+ .4	SW	1	C	*	59	40	?	
Biarritz ...	? 29.61	51	SE	2	0	? 29.59	- .16	48	45	+ .6	E	4	0	1	55	?	0.08	
Corunna ...	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	
Lisbon ...	29.64	51	NNW	4	0	29.66	+ .14	48	46	- .6	SW	4	0	5	57	46	0.20	

WEATHER CHARTS

for 8 a.m. on Monday, 15th April

BAROMETER, WIND & SEA.

(Explanation of Map)

Barometer — Isobars are drawn for each tenth of an inch. Changes since previous morning are stated in words. Arrows show the prevalent winds. They fly with the wind and their barbs and feathers refer to force thus —

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

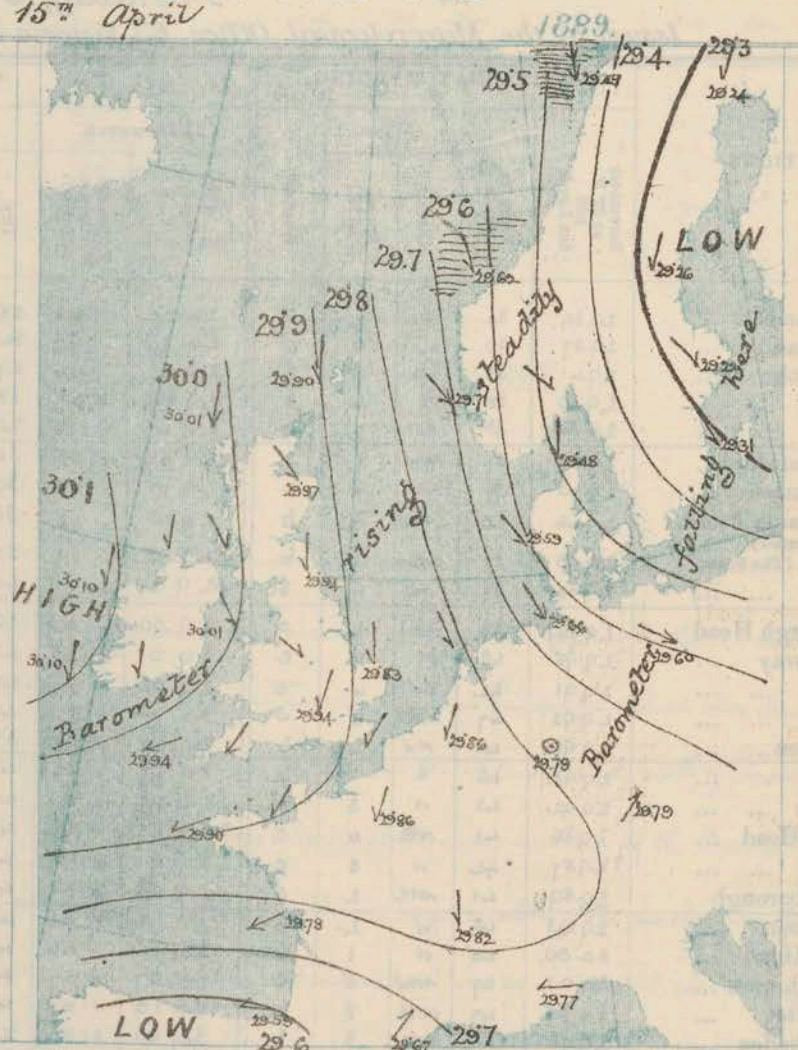
Sea Disturbance — where considerable is shown thus.

— Rough — High

MEAN HEIGHT of the BAROMETER

at 8 a.m. for the month of April.
During the 15 Years 1871 — 1885.

STATIONS	MEAN READINGS
Sumburgh Head	29.849
Stornoway	29.821
Wick	29.853
Nairn	29.853
Aberdeen	29.802
Leith	29.865
Shields	29.870
York	29.877
Loughborough	29.878
Ardrossan	29.867
Donaghadee	29.853
Holyhead	29.851
Liverpool	29.864
Parsonstown	29.853
Valencia	29.835
Roche's Point	29.838
Pembroke	29.844
Scilly	29.849
Jersey	29.867
Hurst Castle	29.867
Dover	29.856
LONDON	29.877
Oxford	29.882
Cambridge	29.879
Yarmouth	29.870



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.

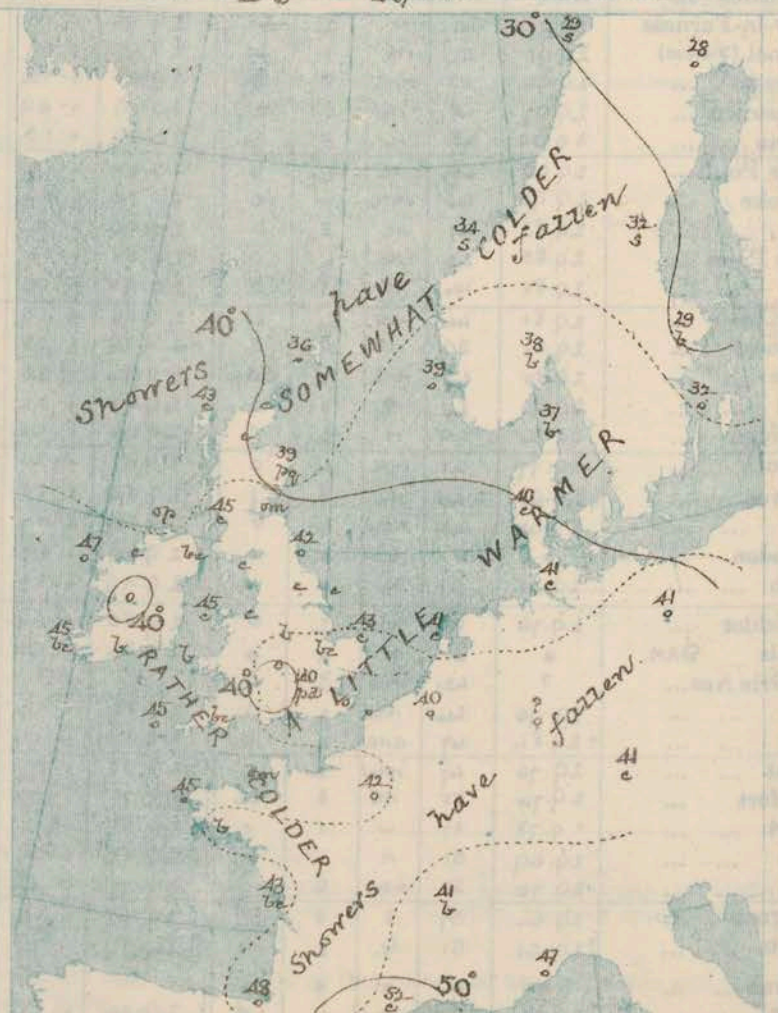
MEANS OF TEMPERATURE IN SHADE.

AND RAINFALL.

for the month of April.

STATIONS	TEMPERATURE				RAINFALL. (Inches.)
	Daily Max.	Daily Min.	at 8 a.m.		
			Dry.	Wet.	
Sumburgh Head	46.3	37.3	41.9	40.5	2.16
Stornoway	49.3	37.5	44.1	42.3	2.51
Wick	49.2	37.4	43.2	41.2	1.56
Nairn	51.5	37.9	43.1	40.6	1.23
Aberdeen	49.6	38.5	43.4	40.9	2.23
Leith	52.6	38.2	44.2	42.1	1.65
Shields	49.2	39.2	43.8	41.7	1.94
York	54.1	37.8	44.1	42.0	1.56
Loughborough	55.7	38.3	45.1	42.6	1.77
Ardrossan	52.1	39.9	44.6	42.2	2.23
Donaghadee	51.3	40.1	44.8	43.2	2.02
Holyhead	51.9	42.4	46.2	44.2	1.86
Liverpool	53.0	40.7	45.5	42.6	1.56
Parsonstown	55.0	38.2	45.7	43.0	2.15
Valencia	54.3	42.9	48.4	45.9	4.01
Roche's Point	54.2	42.4	47.0	44.9	3.43
Pembroke	50.8	42.1	45.6	43.6	2.10
Scilly	52.5	45.0	49.0	47.1	2.45
Jersey	54.6	43.6	49.0	46.4	2.04
Hurst Castle	52.3	41.4	45.9	44.6	1.87
Dover	51.5	43.4	47.1	44.5	1.81
LONDON	56.7	40.0	46.8	43.8	1.86
Oxford	55.1	39.3	45.0	42.7	1.79
Cambridge	56.2	37.7	45.5	43.3	1.78
Yarmouth	49.5	40.4	45.1	43.4	1.80

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



GENERAL SITUATION AT 8 A.M.

PRESSURE

Highest, 30.1 in. and upwards, in an anticyclone lying off the west of Ireland.
Lowest, 29.3 in. and less, over the Gulf of Gascogne and the northern part of the British Isles, and 29.6 in. and less, over the north of Spain.
Gradient moderate over Scandinavia, Denmark and the south of France, but slight elsewhere.
Barometer rising slowly at all but the Swedish, Danish and southern French stations.

TEMPERATURE

Highest, 57° at Perpignan, 48° at Biarritz and Lisbon, 47° at Richmond and Aix, and 45° at Anderson, Mullaghmore, Buncrana, Holyhead, Valentia, Lally, Jersey and Brest.
Lowest, 28° at Hafnarvordur, 23° at Oslo and Stockholm, 31° at Helsingfors and Viki, 34° at Christiania, and 36° at Lumburg Id.
The maxima registered yesterday were below 45° over the eastern and central part of England.

WIND

Moderate from the N^W or N^W over Scandinavia, Denmark, and the north and east of our Islands.
Moderate or fresh from NE. in the south of England and the west of France.
Light or moderate from the SW^W at Munich, Perpignan and Lisbon.

WEATHER

Fair generally but showery at some of our northern and eastern stations.
Snow is falling in the north of Scandinavia. A solar halo is reported at Holyhead.
A little rain fell yesterday over the eastern and southern part of Great Britain and also at some of the Continental stations.

SEA

Rather rough off the west of Norway and also at Lisbon, but moderate to smooth elsewhere.

PROBABLE CHANGES IN SYSTEM NOW PREVALENT

The anticyclone in the west is spreading slowly eastwards and a general improvement in the weather is probable over our Islands.
Temperature is, however, likely to remain low for the present.

FORECASTS

for the 24 hours ending at NOON on

16th APRIL

1889

DISTRICTS.

FORECASTS.

0	SCOTLAND NORTH	N ^W winds, light or moderate; fair generally, but some cold showers.
1	SCOTLAND EAST	
2	ENGLAND N.E.	N ^W and NE ^W winds, moderate or fresh; fair generally, but local showers.
3	ENGLAND EAST	
4	MIDLAND COUNTIES	
5	ENGLAND SOUTH	

DISTRICTS.

FORECASTS.

6	SCOTLAND WEST	NW and N ^W winds, light; fair generally.
7	ENGLAND N.W.	
8	ENGLAND S.W.	NE ^W winds, fresh; fair generally, but local showers.
9	IRELAND NORTH	N ^W winds, light or moderate; fair generally.
10	IRELAND SOUTH	
WARNINGS		The NORTH CONE has been lowered this morning in district 2 and part of 3.

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 sweep 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 sweep towards S. or S.W., the South Cone is hoisted in preference to the North Cone.

YESTERDAY'S 2 P.M. REPORTS.

	Bar.	Dry.	Wet.	Wind.	Woa.	Sea.		Bar.	Dry.	Wet.	Wind.	Woa.	Sea.
Skudesnaes ...	29.69	44	40	NW 8	0	4	Holyhead ...	29.94	42	39	NNE 5	60	5
Sumburgh Head ...							Valencia ...						
Stornoway ...	29.94	49	47	NW 3	60	3	Scilly ...						
Aberdeen ...							Jersey ...	29.79	46	41	NW 3	0	3
Shields ...							Dungeness ...	29.69	40	38	NE 4	C	3
Ardrossan ...							London ...						*
Malin Head ...	29.99	46	43	N 1	0	1	Yarmouth ...						
Mullaghmore ...							Rocheport ...	29.77	59	52	NE 2	C	2
Belmullet ...	30.04	48	45	NE 3	6	*							

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

The report for yesterday morning showed that pressure varied from 30.0 ins. and more, in a high pressure area lying off our western coast, from a similar value in another such system over Algeria, and from 29.8 ins. and more, over the northeastern half of Russia, to 29.4 ins. and less, in a large low pressure area lying over western and central Russia, to about the same value in another system advancing over the northern half of Norway from the northwestward, and to 29.6 ins. and less, in a third, which was approaching the Portuguese coast from the westward. The shallow depression noticed over Holstein on Saturday had filled up. Thus while N. and NE. winds of moderate strength prevailed over the British Islands and west of France, and strong W. (NW to SW) winds in the west of Norway, the wind over the Mediterranean and Germany was W., and that in other countries variable. The weather was unsettled generally except on our western and some of the Mediterranean coasts, cold rain was falling in several parts of England and the northern and central parts of Europe, snow at Bodo. Temperature was considerably below the freezing point in the northern parts of Sweden and Russia, and was low generally for the time of year. The lowest morning values were 21° at Archangel and Haparanda, 25° at Hernösand, 29° at Umeåborg, 31° at Kuopio, 35° at Helsingfors and the Sound, 37° at Christianund and Moscow, and 39° at Skudesnaes and Neu Fahrwasser, 40° at Brussels, Shields and Aberdeen, the highest were 61° at Brindisi and Cagliari, 59° at Algiers and La Calle, 54° at San Fernando, 56° at Barcelona, 55° at Lisbon and Sanguinaire, 51° at Barcelona, 50° at Nice and Trieste, 44° at Scilly. At Berlin the temperature was 43° at Madrid 42°, at Paris 41°, and in London 38°. Later on the depression near Norway moved southeastward, while that over Spain moved northeastward, but no change of importance occurred in the weather over the British Islands and their immediate neighbourhood.

SUMMARY OF CHANGES IN THE WEATHER OVER THE BRITISH ISLANDS AND THEIR NEIGHBOURHOOD. FROM THE 7TH TO THE 13TH APRIL. 1889.

During this week the distribution of pressure over our area and the winds reported have been of a complex character. Two high pressure systems have been almost continuously present—the SW. portion of one lying over northern Europe, the Baltic, North Sea and Germany, while the NE. part of the other spread over Spain, and occasionally over the southern parts of the Bay of Biscay and southwest of France. These systems have been separated by a zone of low pressure covering France and the southern parts of our Islands, and at times there have been other low pressure systems over the Gulf of Genoa and Mediterranean. The wind has consequently been E. (NE to SE) over the northern part of our area, NW. to W. in the southwest and south, and variable over the intermediate regions. Temperature has been low for the time of year, rain has fallen almost daily, most in the southwestern and west midland parts of England, and wet snow has fallen in the north, while thunder and lightning have been reported from time to time in various places. There was, however, a marked absence of gales, as the different systems were of little intensity. At the close of the week the barometer was beginning to rise in the southwest and south, and to fall over Scandinavia, so that the distribution of pressure was becoming more simple, and the wind was backing N. on our coasts, with cold rain weather, and some rain.

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, 16th April, 1889.*
Issued by the Meteorological Office, 63 Victoria Street, London. R. H. SCOTT, Secretary.

STATIONS.	† YESTERDAY EVENING.					8 A.M. TO DAY.										PAST 24 HOURS.		
	Barometer at 32° F. and Sea Level.	Temp. in Shade.	WIND.		Weather.	BAROMETER.		SHADE TEMP.			WIND.		Weather.	Sea (0 to 9.)	SHADE TEMP.		Amount of Rainfall.	
			Dir.	Force, (0 to 12.)		Reading at 8 a.m. and Sea Level.	Difference from 8 a.m. yesterday.	Dry.	Wet.	Difference from 8 a.m. yesterday.	Dir.	Force, (0 to 12.)			Max.	Min.		
Haparanda ..	29.14	28	NHE	6	0	29.25	+ 0.1	26	26	- 2	NE	3	S	*	32	23	0.20	
Hernösand ...	29.17	30	NHE	8	S	29.32	+ 0.6	28	26	- 4	NE	6	0	*	36	25	0.08	
Stockholm ...	29.24	32	NW	2	0	29.30	+ 0.8	27	26	- 2	NW	2	S	*	34	25	0.08	
Wisby ...	29.36	32	W	4	0	29.38	+ 0.7	30	29	- 2	W	6	S	*	41	30		
Bodö ...	29.60	29	N	6	C	29.61	+ 0.6	29	27	0	N	4	C	2	30	25		
Christiansund...	29.78	32	NHE	6	C	29.79	+ 0.7	34	32	0	NHE	2	S	4	34	28	0.04	
Skudesnaes ...	29.72	36	NHE	8	0	29.79	+ 0.8	36	31	- 3	NHE	7	C	4	41	32		
Christiania Fjord (Farder)	29.51	38	NHE	5	0	29.63	+ 0.15	34	28	- 4	NHE	6	0	1	43	30		
Skagen (The Scaw)	29.49	38	N	3	0	29.63	+ 0.15	34	30	- 3	NHE	6	0	4	45	32		
Fanö ...	29.60	36	NW	6	C	29.71	+ 0.12	36	34	- 4	NE	1	C	*	43	32		
Sumburgh Head	29.92	37	N	2	0	29.92	+ 0.2	39	37	+ 3	NHE	1	0	3	40	34		
Stornoway ...	30.02	46	NW	4	C	29.98	- 0.03	46	45	+ 3	N	0	0	3	49	40	0.02	
Wick ...	29.99	40	NW	4	0	29.93	- 0.03	43	42	+ 3	NW	2	0	2	46	35	0.02	
Nairn ...	29.99	47	NHE	3	0	29.98	- 0.02	43	40	+ 3	NHE	2	C	1	51	38	0.01	
Aberdeen...	29.97	44	NW	3	C	29.98	+ 0.01	42	40	+ 3	NW	3	C	3	46	37	0.02	
Leith ...	29.99	48	SE	1	m	30.00	+ 0.03	45	41	+ 2	NHE	1	cm	*	50	40		
Shields ...	29.97	44	NHE	3	C	29.98	+ 0.04	41	40	- 1	NHE	3	0	4	46	39		
Spurn Head ...	29.94	41	NHE	5	0	29.94	+ 0.09	43	41	+ 1	NHE	4	0	3	44	38		
York ...	29.94	45	NE	2	0	29.95	+ 0.04	43	40	+ 2	N	1	0	*	48	35		
Loughborough	29.96	45	N	2	0	30.00	+ 0.04	42	39	0	NW	1	0	*	52	35		
Ardrossan ...	29.98	50	NHE	1	C	30.01	+ 0.05	47	45	+ 2	NHE	3	C	2	52	41		
Malin Head ...	30.07	45	NHE	4	0	30.09	+ 0.05	45	44	+ 2	NHE	3	0	3	46	43		
Mullaghmore ...	30.08	46	NHE	5	C	30.12	+ 0.05	46	44	+ 1	NW	2	0	2	50	41		
Belmullet ...	30.13	45	NHE	3	0	30.15	+ 0.05	47	44	0	NHE	2	0	*	51	41	0.02	
Donaghadee ...	30.02	47	NHE	4	0	30.08	+ 0.07	45	43	0	NHE	3	C	2	49	41	0.01	
Barrow-in-Furness	29.97	48	NE	2	0	30.01	+ 0.05	44	42	+ 2	NW	3	C	*	49	41		
Liverpool (Bdston)	29.99	46	NW	1	0	30.02	+ 0.03	44	42	+ 1	NHE	3	C	3	49	40		
Holyhead ...	30.00	45	N	2	0	30.06	+ 0.05	45	43	0	NHE	2	0	2	49	42		
Parsonstown ...	30.05	49	NW	2	0	30.14	+ 0.08	38	37	0	N	0	0	*	51	32		
Valencia ...	30.09	45	N	2	cm	30.15	+ 0.05	49	43	+ 4	NE	2	C	2	52	42		
Roche's Point...	30.04	50	NE	2	0	30.11	+ 0.07	45	41	+ 2	N	3	0	3	51	42		
Pembroke ...	29.98	44	N	4	0	30.06	+ 0.06	43	42	0	NE	1	0	0	49	39		
Scilly ...	29.94	47	NHE	5	cm	30.01	+ 0.07	48	45	+ 3	NE	4	C	4	48	43		
Prawle Point ...	29.96	43	ENE	2	0	30.02	+ 0.07	47	41	+ 4	ENE	5	0	3	48	39		
Jersey ...	29.91	45	NE	4	0	29.97	+ 0.07	43	39	- 2	ENE	4	0	3	47	41		
Hurst Castle ...	29.93	47	NE	3	0	30.00	+ 0.05	43	40	+ 3	NE	3	0	1	48	34		
Dungeness ...	29.89	46	NE	4	C	29.93	+ 0.04	41	39	+ 1	NHE	4	0	3	48	32		
London ...	29.93	45	N	2	0	29.97	+ 0.03	41	38	+ 1	NHE	1	0	*	48	35		
Oxford ...	29.98	44	NE	2	0	30.01	+ 0.03	40	37	0	N	1	0	*	50	32		
Cambridge ...	29.95	42	N	2	0	29.98	+ 0.04	43	41	+ 1	NHE	1	0	*	50	31		
Yarmouth ...	29.90	42	N	3	C	29.92	+ 0.05	42	41	- 1	N	2	C	4	45	36	0.02	
Cuxhaven ...	29.68	39	NHE	5	0	29.68	+ 0.02	39	38	- 2	N	4	0	*	41	37		
Berlin ...	29.60	43	NHE	4	0	29.60	0.00	36	35	- 5	NW	5	C	*	46	34	0.08	
Wiesbaden ...	*	*	*	*	*	29.80	+ 0.01	39	36	?	N	4	C	*	48	37		
Munich ...	29.76	42	N	0	0	29.73	- 0.06	39	37	- 2	NW	4	0	*	48	37	0.04	
The Helder ...	29.84	39	NHE	2	C	29.86	+ 0.06	40	36	- 1	N	3	0	3	43	37		
Brussels 9 AM	*	*	*	*	*	29.90	+ 0.04	39	38	- 1	NHE	1	C	*	46	35	0.04	
Cape Gris Nez...	?	42	NE	4	C	?	?	40	37	0	NE	5	C	5	48	39		
Paris ...	29.85	46	NE	3	C	29.89	+ 0.03	37	35	- 5	NE	3	0	*	51	34		
Brest ...	? 29.92	46	ENE	4	0	? 29.98	+ 0.08	40	39	- 5	ENE	1	0	?	52	37		
Lorient ...	29.80	47	NE	5	0	29.84	+ 0.06	42	40	+ 2	NE	4	0	3	50	39		
Rochefort ...	29.68	54	ENE	5	0	29.76	- 0.02	42	37	- 1	ENE	6	0	4	64	36		
Beaufort ...	29.67	53	W	1	0	29.75	- 0.06	46	42	0	E	1	0	*	53	30		
Lyons ...	29.68	54	N	2	0	29.72	- 0.10	37	37	- 4	N	2	0	*	60	37	0.12	
Nice ...	29.76	47	ENE	3	0	29.65	- 0.12	46	46	- 1	ENE	5	0	3	54	45	0.51	
Perpignan ...	29.60	55	SE	2	0	29.63	- 0.04	48	46	- 4	SW	2	0	*	59	37		
Biarritz ...	? 29.55	52	E	3	0	? 29.65	+ 0.06	48	44	0	SW	3	0	1	59	45	0.24	
Corunna ...	*	*	*	*	*	29.80	+ 0.18	52	48	+ 3	NE	6	C	6	52	43	0.16	
London ...	29.65	49	NHE	6	0	29.71	+ 0.05	48	46	0	NHE	4	0	4	55	46	0.20	

WEATHER CHARTS

for 8 a.m. on Tuesday, 16th April.

1889.

BAROMETER, WIND & SEA.

(Explanation of Map)

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

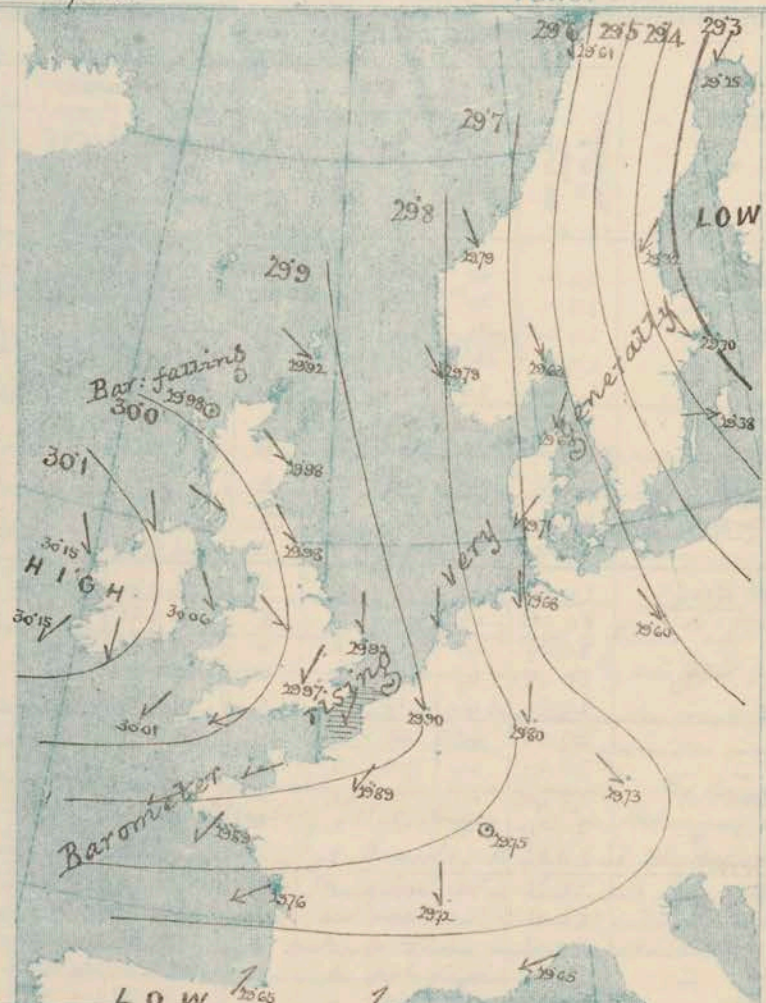
Sea Disturbance — where considerable, is shown thus.

— Rough — High

MEAN HEIGHT of the BAROMETER

at 8 a.m. for the month of April.
 During the 16 Years 1871 — 1886.

STATIONS	MEAN READINGS.
Sumburgh Head	29.849
Stornoway	29.821
Wick	29.859
Nairn	29.853
Aberdeen	29.862
Leith	29.865
Shields	29.870
York	29.877
Loughborough	29.878
Ardrossan	29.857
Donaghadee	29.853
Holyhead	29.851
Liverpool	29.864
Parsonstown	29.853
Valencia	29.835
Roche's Point	29.838
Pembroke	29.844
Scilly	29.849
Jersey	29.867
Hurst Castle	29.867
Dover	29.866
LONDON	29.877
Oxford	29.882
Cambridge	29.879
Yarmouth	29.876



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 April.

STATIONS.	TEMPERATURE.				RAINFALL. (Inches.)
	Daily Max.	Daily Min.	at 8 a.m.		
			Dry	Wet	
Sumburgh Head	46.3	37.3	41.9	40.5	2.16
Stornoway	49.3	37.5	44.1	42.3	2.51
Wick	49.2	37.4	43.2	41.2	1.56
Nairn	51.5	37.9	43.1	40.6	1.23
Aberdeen	49.6	38.5	43.4	40.9	2.23
Leith	52.6	38.2	44.2	42.1	1.65
Shields	49.2	39.2	43.8	41.7	1.94
York	54.1	37.8	44.1	42.0	1.86
Loughborough	55.7	38.3	45.1	42.6	1.77
Ardrossan	52.1	39.9	44.6	42.2	2.23
Donaghadee	51.3	40.1	44.8	43.2	2.02
Holyhead	51.9	42.4	46.2	44.2	1.86
Liverpool	53.0	40.7	45.5	42.6	1.56
Parsonstown	55.0	38.3	45.7	43.0	2.15
Valencia	54.3	42.9	48.4	45.9	4.01
Roche's Point	54.2	42.4	47.0	44.9	3.43
Pembroke	50.8	42.1	45.6	43.6	2.10
Scilly	52.5	45.0	49.0	47.1	2.45
Jersey	54.6	43.6	49.0	46.4	2.04
Hurst Castle	52.3	41.4	45.9	44.6	1.87
Dover	51.5	42.4	47.1	44.5	1.81
LONDON	56.7	40.0	46.8	43.8	1.86
Oxford	55.1	39.3	45.0	42.7	1.79
Cambridge	56.2	37.7	45.5	43.3	1.78
Yarmouth	49.5	40.4	45.1	43.4	1.80

NOTE — The Temperature means are for the 16 years 1871 — 86, the Rainfall means are mainly those for the 20 years 1866 — 85.



GENERAL SITUATION AT 8 A.M.

PRESSURE

Highest, 30.1 in. and upwards, over Ireland.

Lowest, 29.3 in. and less, over the Gulf of Bothnia and the northern part of the Baltic; 29.7 in. and less, over the south of France and the north of Spain.

Gradients moderate over Scandinavia, but slight elsewhere. Barometer rising at all but our extreme northern stations.

TEMPERATURE

Highest, 48° at Kilmere, 48° at Bally, Kilmory, Papsiguan, and Lisbon, and 47° at Andros, Balnakeil, and Grand Point.

Lowest, 26° at Haparanda, 27° at Stockholm, 28° at Helsingfors, 28° at Abo, 30° at Uusikaupunki, and 34° at Christiania, Thunders, and Svalbard.

Frost occurred last night over the central part of England and Ireland; in London the thermometer on the grass fell to 24°.

WIND

Light from the NWnd over the northern parts of our Islands; strong from the same quarter over the south of Scandinavia.

Moderate or fresh from the NEnd at our southern and most of the French stations.

Light or moderate from SW at Kilmere, Papsiguan, and Lisbon.

WEATHER

Fair over the greater part of Western Europe, but dull in the east and extreme north and northwest of our Islands.

Rain is falling in the south of France and snow in Sweden.

Slight showers fell yesterday at some of our northern and eastern stations.

SEA

Moderate or light generally, but rather rough at Cape Rey.

PROBABLE CHANGES IN SYSTEM NOW PREVALENT

The fall of the barometer which has commenced in the north of Scotland seems to indicate the approach of a depression from the NWnd or Nnd and freshening winds from the Wnd and NWnd with showery weather are probable over the northern parts of the kingdom.

In the southern districts no important change is likely at present.

FORECASTS

for the 24 hours ending at NOON on 17th APRIL 1889.

DISTRICTS.

FORECASTS.

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

Wnd and NWnd winds, freshening; dull, some rain.

NWnd winds, freshening; fair to showery.

NWnd winds, light or moderate; fair generally.

Nnd to NWnd 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

Same as Nos 1 and 2.

NEnd and Nnd winds, moderate; fair generally.

Same as Nos 1 and 2.

Same as No 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 ebb 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 ebb towards S. or S.W., the South Cone is hoisted in preference to the North Cone.

YESTERDAY'S 2 P.M. REPORTS.

	Bar.	Dry.	Wet.	Wind.	Woa.	Sea.		Bar.	Dry.	Wet.	Wind.	Woa.	Sea.
Skudesnaes ...	29.69	41	36	NW 8	c	4	Holyhead ...	30.60	47	44	NNW 2	c	2
Sumburgh Head ...	29.91	38	35	N 2	o	3	Valencia ...	30.08	52	46	N 3	om	3
Sornoway ...	30.03	48	46	N 4	c	4	Silly ...	29.95	47	42	NE 5	c	4
Aberdeen ...	29.97	45	40	NW 4	cq	3	Jersey ...	29.92	46	43	NE 4	o	3
Shields ...	29.96	45	41	N 4	o	4	Dungeness ...	29.90	46	43	NE 3	c	2
Ardrossan ...	29.97	47	46	NNW 1	c	1	London ...	29.93	47	41	NNW 2	o	*
Malin Head ...	30.07	45	43	N 4	o	4	Yarmouth ...	29.88	44	42	NNE 3	bcv	3
Mullaghmore ...	30.08	47	44	N 5	o	3	Rochefort ...	29.74	62	53	E 5	b	3
Belmullet ...	30.12	51	48	ESE 3	c	*							

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

The report for yesterday morning showed that pressure was highest, 30.1 ins: and upwards, in an anticyclone lying off the west of Ireland and lowest, 29.1 ins: and less, in a large and irregularly formed depression which extended from Central Russia to the Gulf of Finland. Another depression, with reading below 29.6 ins: was, however, lying over the north of Spain. The wind was moderate from the N^W or NW^W over the northern and eastern parts of the United Kingdom, and fresh or strong from the same quarters on the eastern shores of the North Sea, but over Germany, Austria and the south of Russia it drew into W, while over Northern Russia it was chiefly E^N. Over the south of our Islands and the greater part of France light to fresh breezes from E. or NE. were reported, while over the central and southern parts of Spain the wind was SW^N, in Algeria S^N and in Italy SE^N. The weather was fair over the greater part of our Islands and France, but showery at some of our northern and eastern stations. Elsewhere, however, conditions were dull and unsettled; rain was falling over Finland, Eastern Germany, and Poland, as well as in many parts of Italy, Spain, and the south of France, and snow was reported over the north of Scandinavia. Temperature had changed very irregularly, and reading ranged from a little above 65° on the Algerian coasts and above 55° over the Mediterranean generally to a little below the freezing point over Sweden and the north of Norway. The highest individual readings were 67° at Algiers, 66° at La Galle, 65° at Nemours, 62° at Paris, 61° at Malta, 59° at Brindisi and Tunis, and 58° at Cagliari and Oran; the lowest were 28° at Haparanda, 25° at Rode and Stockholm, 31° at Hango, 32° at Helsingfors and Näsby, 33° at Uleaborg, 34° at Christiansund and Hømel, 35° at Archangel and Riga, and 36° at St Petersburg and Sumburgh Head.

In the course of the day the depression over the north of Spain extended slightly, northwards, and the barometer fell a little over France. No important change was observed, however, in the winds or weather.

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 17TH APRIL

1889.

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

STATIONS.	† YESTERDAY EVENING.					8 A.M. TO DAY.										PAST 24 HOURS.		
	Barometer at 32° F. and Sea Level.	Temp. in Shade.	WIND.		Weather.	BAROMETER.		SHADE TEMP.			WIND.		Weather.	Sea. 0 to 9.)	SHADE TEMP.		Amount of Rain H.	
			Dirco.	Force. (0 to 12.)		Reading at 82° F. and Sea Level.	Difference from 8 a.m. yesterday.	Dry.	Wet.	Difference from 8 a.m. yesterday.	Dirco.	Force. (0 to 12.)			Max.	Min.		
Haparanda ..	29.52	23	N	6	0	29.61	+0.09	23	22	-1	NE	4	bc	*	30	19	-	
Hernösand ...	29.52	22	N	4	0	29.68	+0.16	24	21	-4	N	6	bc	*	29	23	-	
Stockholm ...	29.50	21	NNW	2	0	29.59	+0.09	30	27	+3	NNW	6	bc	*	29	25	0.04	
Wisby ...	29.54	21	NNW	6	0	29.60	+0.06	32	21	+1	NW	4	c	*	29	27	0.04	
Bodö ...	29.70	27	NNE	2	bc	29.69	+0.01	24	21	-3	ESE	4	bc	2	28	18	-	
Christiansund...	29.71	25	SE	2	bc	29.67	-0.04	26	22	+4	ESE	2	0	2	37	28	-	
Skudesnaes ...	29.77	26	NW	2	0	29.77	-0.01	40	35	+4	ESE	2	c	3	40	36	-	
Christiania Fjord (Farder)	29.65	28	ESE	2	0	29.75	+0.10	34	30	0	N	2	bc	1	39	34	-	
Skagen (The Scaw)	29.66	25	NW	1	0	29.73	+0.07	36	32	+2	NE	2	bc	1	41	32	-	
Fanö ...	29.76	25	NNW	4	c	29.74	+0.02	40	37	+4	NW	4	bc	*	43	34	-	
Sumburgh Head	29.70	44	W	3	d	29.75	-0.05	45	45	+6	NNW	2	bc	3	46	39	0.10	
Stornoway ...	29.89	47	W	5	r	29.92	-0.03	48	48	+2	W	4	bc	4	48	43	0.05	
Wick ...	29.80	47	NW	5	0	29.86	-0.06	49	48	+6	NW	4	0	2	49	41	0.02	
Nairn ...	29.87	48	W	4	0	29.90	-0.03	50	48	+7	SW	2	0	1	50	43	-	
Aberdeen...	29.89	47	W	2	og	29.87	-0.02	53	49	+11	NNW	5	bc	3	53	42	0.01	
Leith ...	29.93	49	NNW	3	c	29.94	-0.01	51	48	+6	W	2	c	*	53	44	-	
Shields ...	29.94	44	2	0	0	29.91	-0.03	49	46	+3	NNW	2	0	3	49	40	-	
Spurn Head ...	29.95	42	NNE	4	bc	29.90	-0.05	44	43	+1	W	3	0	3	46	40	-	
York ...	29.94	48	N	1	c	29.89	-0.05	46	44	+2	W	1	0	*	50	41	-	
Loughborough	29.98	47	N	1	c	29.96	-0.02	46	44	+4	NNW	2	om	*	48	39	-	
Ardrossan ...	29.98	47	W	3	0	30.00	-0.02	48	47	+1	NNW	3	0	2	52	40	-	
Malin Head ...	30.06	47	NNW	4	0	30.05	-0.01	46	44	+1	NNW	4	0	3	48	45	-	
Mullaghmore ...	30.12	48	NNW	3	0	?	?	47	44	+1	NW	4	0	2	50	45	-	
Belmullet ...	30.16	48	NW	3	0	30.11	-0.05	48	46	+1	NNW	2	0	*	51	46	-	
Donaghadee ...	30.05	47	NNE	4	c	30.04	-0.01	48	46	+3	N	4	m	2	51	44	-	
Barrow-in-Furness	29.98	47	N	2	c	29.96	-0.02	46	45	+2	NNW	4	bc	*	51	43	-	
Liverpool (Widston)	30.00	46	NNW	3	bc	29.99	-0.01	45	44	+1	NNW	4	0	4	50	42	-	
Holyhead ...	30.03	46	NNW	4	c	30.03	-0.01	46	44	+1	NNW	4	0	4	49	44	-	
Parsonstown ...	30.11	49	NW	1	0	30.12	-0.01	46	43	+8	2	0	0	*	51	37	-	
Valencia ...	30.17	49	N	2	0	30.16	+0.01	48	44	-1	NNW	1	0	1	52	44	-	
Roche's Point...	30.11	51	N	4	c	30.11	0.00	46	43	+1	N	3	0	3	52	44	-	
Pembroke ...	30.05	46	N	3	c	30.04	-0.01	49	47	+6	N	4	bc	2	51	43	-	
Scilly ...	30.04	48	N	5	bc m	30.05	+0.01	49	47	+1	N	5	c	4	51	46	-	
Prawle Point ...	29.99	49	NE	2	c	30.01	-0.02	47	44	0	NNW	3	c	2	53	29	-	
Jersey ...	29.97	48	NNW	4	bc	?	?	48	44	+5	NNE	2	bc m	2	51	42	-	
Hurst Castle ...	29.96	47	NNE	3	m	29.98	-0.02	47	45	+4	N	3	m	1	50	40	-	
Dungeness ...	29.91	44	E	4	c	29.93	0.02	44	39	0	NE	4	c	3	49	36	-	
London ...	29.95	40	N	2	bc	29.95	-0.01	43	41	+2	2	0	og m	*	49	40	-	
Oxford ...	29.99	43	NE	2	0	29.98	-0.01	44	42	+4	NNW	1	0	*	48	36	-	
Cambridge ...	29.96	43	N	1	0	29.93	-0.03	44	44	+1	NW	1	0	*	50	34	-	
Yarmouth ...	29.94	42	N	3	bc v	29.91	-0.03	42	41	0	NNW	2	of	3	44	36	0.02	
Cuxhaven ...	29.78	37	NNW	4	c	29.76	+0.02	39	38	0	N	3	bc	*	41	39	-	
Berlin ...	29.77	37	NW	4	bc	29.76	+0.01	38	35	+2	NNW	2	c	*	45	32	0.04	
Wiesbaden ...	*	*	*	*	*	29.85	+0.08	37	33	-2	N	4	bc	*	45	34	-	
Munich ...	29.75	26	NE	2	0	29.72	-0.03	33	32	-6	NE	5	bc	*	43	28	-	
The Helder ...	29.91	39	NNW	2	c	29.87	+0.04	41	39	+1	NNW	2	c	3	41	39	-	
Brussels ...	*	*	*	*	*	29.92	+0.01	40	37	+1	N	2	0	*	48	38	-	
Cape Gris Nez...	?	42	NNE	4	bc	?	?	41	38	+1	N	3	0	2	50	37	-	
Paris ...	29.85	45	NNE	4	0	29.90	+0.05	36	34	-1	N	3	bc	*	47	32	-	
Brest ...	30.02	47	ESE	6	c	30.04	+0.02	47	45	+7	N	1	0	*	54	37	-	
Lorient ...	29.90	48	NE	6	bc	29.97	+0.07	46	44	+4	NNE	3	0	2	48	41	-	
Rochefort ...	29.80	49	ESE	6	c	29.94	+0.14	43	41	+1	NNE	4	c	2	53	36	-	
Beifort ...	29.60	48	N	2	0	29.72	0.02	37	33	0	NW	4	bc	*	49	34	0.12	
Nice ...	29.51	44	2	0	2	29.40	-0.11	47	45	+1	NNE	2	bc	0	55	43	1.06	
Perpignan ...	29.60	51	SW	2	0	29.64	+0.04	47	43	-1	NW	3	c	*	62	45	0.24	
Biarritz ...	29.67	51	NNE	5	0	29.87	+0.20	48	39	-5	NNE	3	0	2	59	41	-	
Corunna ...	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	
Lisbon ...	29.80	52	NW	5	bc	29.90	+0.10	51	47	+3	NW	4	bc	5	57	48	0.08	

For Explanation of Columns, see p. 4.

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

WEATHER CHARTS

for 8 a.m. on Wednesday, 17th April.

1889.

BAROMETER, WIND & SEA.

(Explanation of Map)

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

Sea Disturbance — where considerable, is shown thus.

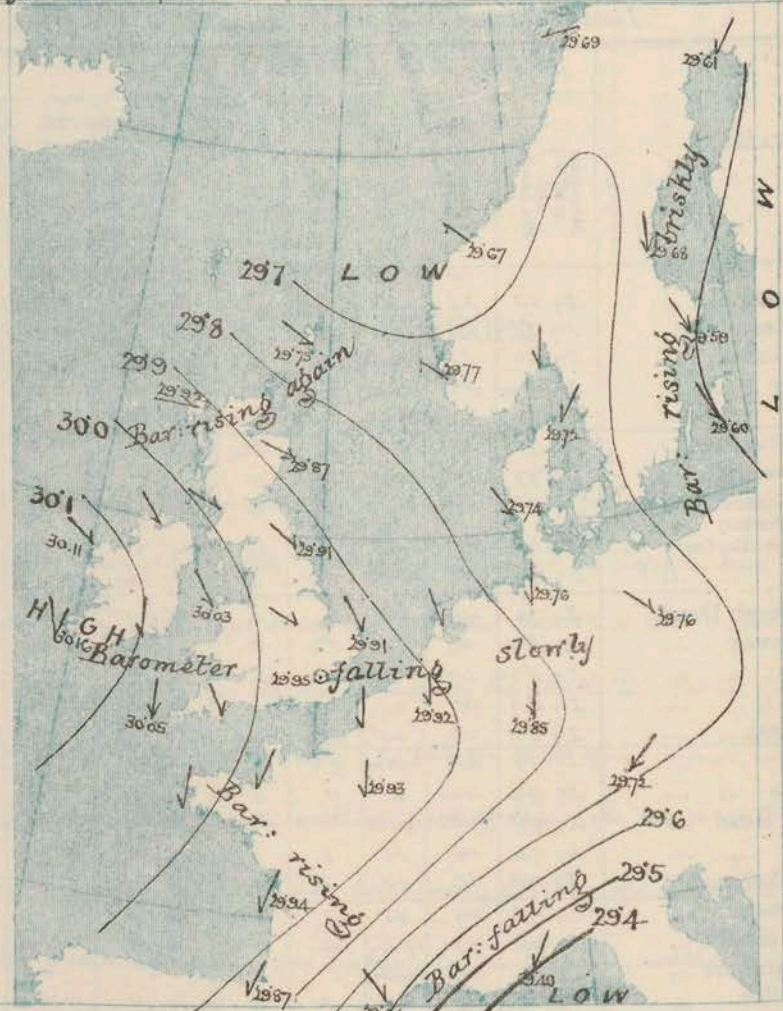
— Rough — High.

MEAN HEIGHT of the BAROMETER

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

During the 15 Years 1871—1885.

STATIONS.	MEAN READINGS.
Sumburgh Head	29.849
Stornoway	29.821
Wick	29.853
Nairn	29.853
Aberdeen	29.802
Leith	29.805
Shields	29.870
York	29.877
Loughborough	29.878
Ardrossan	29.857
Donaghadee	29.853
Holyhead	29.851
Liverpool	29.864
Parsonstown	29.853
Valencia	29.835
Roche's Point	29.838
Pembroke	29.844
Scilly	29.849
Jersey	29.867
Hurst Castle	29.867
Dover	29.866
LONDON	29.877
Oxford	29.882
Cambridge	29.879
Yarmouth	29.876



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.

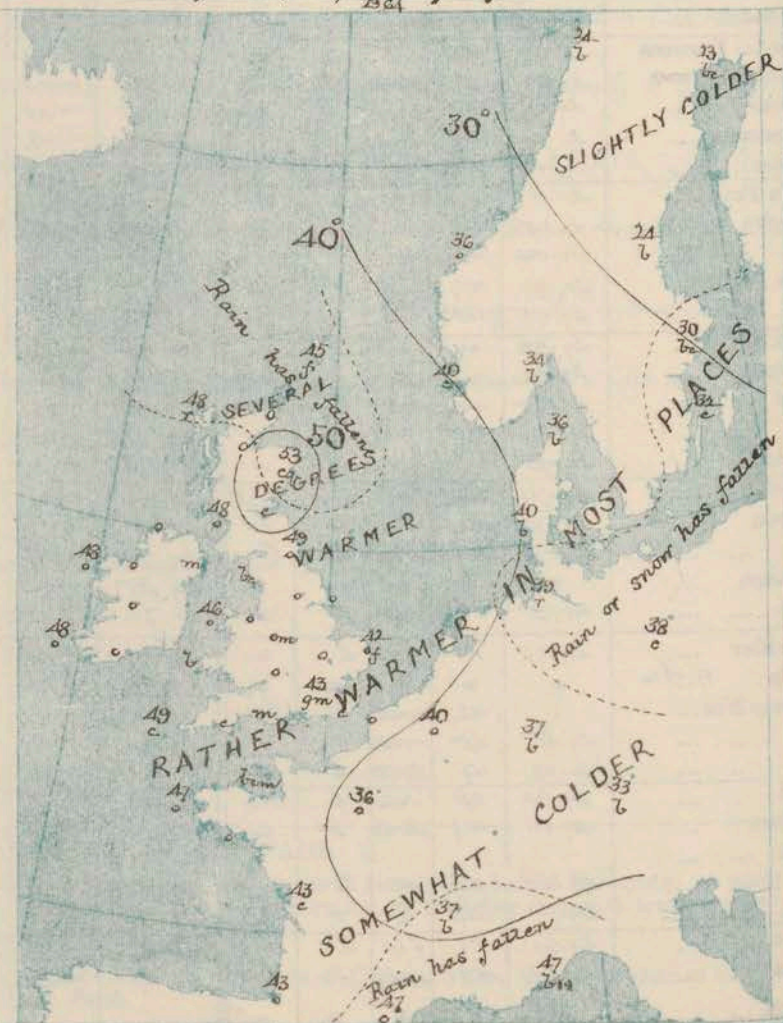
MEANS OF TEMPERATURE IN SHADE.

AND RAINFALL.

for the month of April.

STATIONS.	TEMPERATURE.				RAINFALL. (Inches)
	Daily Max.	Daily Min.	at 8 a.m.		
			Dry.	Wet.	
Sumburgh Head.	46.3	37.3	41.9	40.5	2.16
Stornoway.	49.3	37.5	44.1	42.3	2.51
Wick.	49.2	37.4	43.2	41.2	1.56
Nairn.	51.5	37.9	43.1	40.6	1.23
Aberdeen.	49.6	38.5	43.4	40.9	2.23
Leith.	52.6	38.2	44.2	42.1	1.65
Shields.	49.2	39.2	43.8	41.7	1.94
York.	54.1	37.8	44.1	42.0	1.86
Loughborough.	55.7	38.3	45.1	42.6	1.77
Ardrossan.	52.1	39.9	44.6	42.2	2.23
Donaghadee.	51.3	40.1	44.8	43.2	2.02
Holyhead.	51.9	42.4	45.2	44.2	1.86
Liverpool.	53.0	40.7	45.5	42.6	1.56
Parsonstown.	55.0	38.3	45.7	43.0	2.15
Valencia.	54.3	42.9	48.4	45.9	4.01
Roche's Point.	54.2	42.4	47.0	44.9	3.43
Pembroke.	50.8	42.1	45.6	43.6	2.10
Scilly.	52.5	45.0	49.0	47.1	2.45
Jersey.	54.6	43.6	49.0	46.4	2.04
Hurst Castle.	52.3	41.4	45.9	44.6	1.87
Dover.	51.5	42.4	47.1	44.5	1.81
LONDON.	56.7	40.0	46.8	43.8	1.86
Oxford.	55.1	39.3	45.0	42.7	1.79
Cambridge.	56.2	37.7	45.5	43.3	1.76
Yarmouth.	49.5	40.4	45.1	43.4	1.80

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



GENERAL SITUATION AT 8 A.M.

PRESSURE

Highest, 30.1 ins. and upwards, over the west and south of Ireland
 Lowest, 29.4 ins. and less, over the Gulf of Genoa, 29.6 ins. and less, over Finland and the Baltic.
 Gradual, rather steep over the southeast of France, but slight elsewhere.
 Barometer falling a little in the east of England and also on the eastern shores of the North Sea, but rising in most other localities.

TEMPERATURE

Highest, 53° at Aberdeen, 51° at Leith and Lisbon, 50° at Nain, and 49° at Wick, Shields, Pembroke and Lundy.
 Lowest, 23° at Haparanda, 24° at Rode and Helsingfors, 30° at Stockholm, 32° at Vicks, 33° at Munich, and 34° at Lander.

WIND

Moderate from NW. over the northern and eastern parts of the Kingdom; light from SE or E. in the west of Norway.
 Chiefly N. elsewhere; moderate in force, but strong at some of the Swedish stations.

WEATHER

Fine in Sweden, Denmark, Germany, and the south of France.
 B dull in most other localities, with rain in the Highlands.
 A little rain fell yesterday in the north of Scotland, and a much larger quantity (1.1 ins.) at Aberdeen.

SEA

Moderate to smooth.

PROBABLE CHANGES IN SYSTEM NOW PREVALENT

The depression off the west of Norway may possibly travel southwards and occasion some increase in the force of the NW^{ly} wind on the Scotch coast. A further rise of temperature is probable over England.

FORECASTS

for the 24 hours ending at NOON on 18th APRIL 1889.

DISTRICTS.

FORECASTS.

0	SCOTLAND NORTH	NW ^{ly} winds, moderate to strong; unsettled, some rain
1	SCOTLAND EAST	
2	ENGLAND N.E.	W ^{ly} and NW ^{ly} winds, freshening; cloudy, some showers.
3	ENGLAND EAST	NW ^{ly} winds, light or moderate; cloudy, some showers.
4	MIDLAND COUNTIES	
5	ENGLAND SOUTH	

DISTRICTS.

FORECASTS.

6	SCOTLAND WEST	Same as No 0 and 1
7	ENGLAND N.W.	Same as No 2
8	ENGLAND S.W.	N ^{ly} and NW ^{ly} winds, moderate, fair generally
9	IRELAND NORTH	Same as No 2
10	IRELAND SOUTH	Same as No 8.

WARNINGS

The NORTH CONE was hoisted last evening in districts 0-6, and part of 1.

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

The North Cone, point upwards (A) 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.	Dry.	Wet.	Wind.	Wes.	Sea.		Bar.	Dry.	Wet.	Wind.	Wes.	Sea.
Skudesnaes ...	29.79	39	33	NW 6	0	4	Holyhead ...	30.06	48	45	NNW 4	bc	2
Samburgh Head ...	29.79	42	43	W 2	2	2	Valencia ...	30.18	51	45	NNE 2	ov	2
Stornoway ...	29.94	43	47	W 4	2	4	Scilly ...	30.04	50	45	N 4	c	2
Aberdeen ...	29.93	50	45	WNW 3	c	2	Jersey ...	29.98	49	43	ENE 5	cm	4
Shields ...	29.99	46	42	NNE 1	bc	2	Dungeness ...	29.93	46	44	E 2	c	2
Ardrossan ...	30.00	51	48	W 2	0	2	London ...	29.98	48	43	N 2	c	*
Malin Head ...	30.09	47	45	NNW 2	0	2	Yarmouth ...	29.94	44	41	NNE 2	bc	2
Mullaghmore ...	30.13	49	45	NW 2	0	2	Rochefort ...	29.79	52	49	ENE 6	c	2
Belmullet ...	30.18	49	46	NNW 1	0	*							

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

Yesterday morning's reports showed that pressure continued highest over Northwestern, lowest over Northern and Southern Europe, the reading varying from between 30.00 in. and 30.15 in. over the western parts of the British Isles to 29.7 in. and less, over the southwestern and southern parts of France, and to about 28.2 in. in a depression which had appeared over the White Sea. N² winds of considerable force were experienced over Scandinavia and Denmark, NW² to W² over North Germany, and SW² to S² over the Baltic Provinces, Finland and Russia. In our Islands the wind was N² (NW to NE) while over France, the Bay of Biscay, and north of Spain it was NE² and in Algeria W². The weather over the United Kingdom was cloudy generally, with slight showers on our northeast coast; over Finland, Scandinavia, and the Baltic it was unsettled, and snow was falling in many places; and over Southern Europe it was dull and unsettled, with rain at several stations - especially in the south of France. Temperature was very uniform over the British Isles and Central Europe; it was below the freezing point over Sweden, Lapland, Finland, and the Baltic Provinces only, but was not much above it on the Norwegian coast, and was below 40° over Central Russia, on all the eastern shores of the North Sea and in the Shetlands. The lowest morning values were 26° at Haparanda, 27° at Stockholm, 28° at Helsingfors, 29° at Bodo, Ulsaborg, Hango, and Huga, 30° at Kuopio, 33° at Copenhagen, 34° at Christiania, 38° at Moscow, 39° at Samburgh Head, Cuxhaven, Warsaw, Brussels, and Munich. The highest values were 65° at Affai (Tunis) 62° at Palermo, 61° at Malta, 59° at Brindisi, 58° at Algiers and Barcelona, 57° at Cagliari, 54° at Genoa and Trieste, 53° at Leghorn, 52° at Courmas, 49° at Valencia, 48° at Scilly (and also at Odessa) and 47° at Belmullet. At Berlin the temperature was 36°, at Paris and Madrid 37°, at Brussels 39°, and in London 41°.

Later on the barometer fell a little in the north, and the wind in our Islands began to back slightly, but temperature did not change materially.

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, 18th April, 1889.*
Issued by the Meteorological Office, 63 Victoria Street, London. R. H. SCOTT, Secretary.

STATIONS.	+ YESTERDAY EVENING.						8 A.M. TO DAY.										PAST 24 HOURS.		
	Barometer at 32° F. and Sea Level.	Temp. in Shade.	WIND.		Weather.	BAROMETER.		SHADE TEMP.			WIND.		Weather.	Sea (0 to 9.)	SHADE TEMP.		Amount of Rainfall.		
			Dir.	Force. (0 to 12.)		Reading at 8 A.M. and Sea Level.	Difference from 8 A.M. yesterday.	Dry.	Wet.	Difference from 8 A.M. yesterday.	Dir.	Force. (0 to 12.)			Max.	Min.			
SCANDINAVIA.																			
Haparanda ..	29.68	22	Z	0	b	29.58	- 0.3	23	22	0	S	2	0	*	34	18	-		
Hernösand ...	29.76	23	Z	0	b	29.72	+ 0.4	30	27	+ 6	Z	0	0	*	45	18	-		
Stockholm ...	29.72	26	N	2	b	29.75	+ 1.6	33	29	+ 3	Z	0	bc	*	3	25	-		
Wisby ...	29.71	31	N	5	b	29.76	+ 1.6	30	28	- 2	NW	4	b	*	34	28	-		
Bodö ...	29.46	30	ESE	4	s	29.37	- 3.2	39	38	+ 15	SW	6	r	3	?	?	0.71		
Christiansund...	29.63	43	WSW	8	r	29.72	+ 0.5	44	43	+ 8	WSW	7	r	4	45	?	0.43		
Skudesnaes ...	29.85	39	SE	1	r	29.96	+ 1.9	45	43	+ 5	NW	2	0	2	?	39	-		
Christiania Fjord (Farder)	29.73	39	SSW	3	r	29.78	+ 0.3	38	37	+ 4	N	2	b	1	39	?	-		
Skagen (The Scaw)	29.76	37	WNW	1	bc	29.79	+ 0.6	38	38	+ 2	SW	1	f	1	45	36	-		
Fanö ...	29.86	38	NW	4	c	29.89	+ 1.5	41	41	+ 1	NW	4	m	*	46	37	-		
BRITISH ISLANDS.																			
Sumburgh Head	29.81	45	WNW	4	0	29.87	+ 1.2	45	43	0	WSW	2	0	1	48	43	0.02		
Stornoway ...	29.94	50	W	4	0	29.88	- 0.4	48	47	0	SW	5	c	4	52	44	0.02		
Wick ...	29.96	49	WNW	2	b	29.92	+ 0.6	47	45	- 2	SW	2	b	1	53	38	-		
Nairn ...	29.96	52	W	1	bc	29.95	+ 0.5	50	45	0	SW	3	bc	2	60	42	-		
Aberdeen...	29.95	52	SE	2	bc	29.99	+ 1.2	48	46	- 5	ESE	1	bc	2	60	42	-		
Leith ...	29.97	54	W	2	c	30.04	+ 1.0	47	43	- 4	W	3	om	*	62	42	-		
Shields ...	29.96	52	Z	0	om	30.06	+ 1.5	47	43	- 2	WSW	3	0	2	56	40	-		
Spurn Head ...	29.96	47	NW	3	0	30.08	+ 1.8	46	45	+ 2	Z	0	0	2	49	43	-		
York ...	29.95	54	NW	1	0	30.05	+ 1.6	47	46	+ 1	WSW	1	b	*	56	43	-		
Loughborough	30.00	52	WNW	1	0	30.12	+ 1.6	49	46	+ 3	WNW	2	c	*	54	46	-		
Ardrossan ...	30.05	51	WNW	3	b	30.08	+ 0.8	46	45	- 2	WSW	3	0	2	52	45	-		
Malin Head ...	30.07	48	W	2	0	30.05	0.0	47	45	+ 1	SSW	3	0	2	51	45	-		
Mullaghmore ...	30.10	49	W	2	0	30.09	?	47	45	0	SSW	4	0	2	51	45	-		
Belmullet ...	30.10	50	WSW	3	0	30.07	- 0.4	48	47	0	SW	5	0	*	51	46	0.02		
Donaghadee ...	30.08	49	NE	4	b	30.12	+ 0.8	46	44	- 2	W	3	m	0	53	41	-		
Barrow-in-Furness	30.00	50	NW	4	bc	30.12	+ 1.6	44	43	- 2	NW	3	0	*	52	42	-		
Liverpool (Bidston)	30.04	49	WNW	3	bc	30.15	+ 1.6	46	43	+ 1	WNW	1	0	2	50	41	0.01		
Holyhead ...	30.06	48	NW	1	b	30.14	+ 1.1	49	46	+ 3	SE	1	bc	1	52	41	-		
Parsonstown ...	30.09	56	Z	0	b	30.15	+ 0.3	45	42	- 1	Z	0	0	*	58	38	-		
Valencia ...	30.16	50	NW	2	b	30.17	+ 0.1	49	46	+ 1	SSW	3	0	3	54	42	-		
Roche's Point...	30.11	54	NW	3	b	30.16	+ 0.5	47	44	+ 1	N	1	b	2	55	41	-		
Pembroke ...	30.07	50	N	3	c	30.15	+ 1.1	48	46	- 1	E	1	b	0	52	44	-		
Scilly ...	30.10	49	NW	5	b	30.17	+ 1.2	51	50	+ 2	NW	2	b	2	51	46	-		
Prawle Point ...	30.03	50	NNE	3	bc	30.17	+ 1.6	54	51	+ 7	SE	1	bc	0	54	45	-		
Jersey ...	30.02	50	NW	3	c	30.14	?	50	48	+ 2	NW	2	om	2	51	46	-		
Hurst Castle ...	30.00	54	NW	2	m	30.15	+ 1.7	50	48	+ 3	N	1	om	1	56	46	-		
Dungeness ...	29.93	46	W	4	m	30.10	+ 1.7	46	45	+ 5	SE	1	0	1	49	40	-		
London ...	29.99	53	NW	1	0	30.11	+ 1.6	52	50	+ 9	NNE	1	0	*	55	43	-		
Oxford ...	30.04	50	N	2	0	30.14	+ 1.6	48	46	+ 4	N	1	0	*	54	44	-		
Cambridge ...	29.98	49	N	1	r	30.11	+ 1.8	51	50	+ 7	N	1	0	*	55	42	0.02		
Yarmouth ...	29.94	45	N	3	c	30.08	+ 1.7	46	45	+ 4	N	2	om	3	47	40	0.01		
Cuxhaven ...	29.82	40	NW	4	c	29.92	+ 1.6	41	40	+ 2	W	2	f	*	41	39	-		
Berlin ...	29.81	41	NW	3	bc	29.91	+ 1.5	40	34	0	NW	3	0	*	45	32	-		
Wiesbaden ...	*	*	*	*	*	30.01	+ 1.6	45	42	+ 8	N	2	c	*	46	?	-		
Munich ...	29.82	38	NW	2	0	29.93	+ 2.1	36	32	+ 3	W	3	0	*	43	30	-		
FRANCE & NETHERLANDS.																			
The Helder ...	29.93	43	N	1	f	30.04	+ 1.7	43	43	+ 2	NW	1	f	2	45	41	-		
Brussels 9.A.M.	*	*	*	*	*	30.08	+ 1.6	43	42	+ 3	WNW	1	f	*	46	?	0.04		
Cape Gris Nez...	?	44	E	2	a	?	?	43	42	+ 2	ESE	1	0	1	48	41	-		
Paris ...	29.95	47	NNE	3	0	30.09	+ 1.6	44	43	+ 8	NE	1	0	*	48	33	-		
Brest ...	30.09	51	NW	3	0	30.17	+ 1.1	49	48	+ 2	NW	1	0	2	54	39	-		
Lorient ...	30.03	51	WNW	1	0	30.13	+ 1.6	48	46	+ 2	NW	2	0	2	54	43	-		
Rocheport ...	29.99	51	NNE	4	c	30.12	+ 1.8	46	44	+ 3	ESE	3	0	2	57	37	-		
Belfort ...	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*		
Lyons ...	29.72	45	NW	3	b	29.99	+ 2.7	39	33	+ 2	NW	4	b	*	49	35	-		
Nice ...	29.52	47	E	6	c	29.76	+ 3.6	48	42	+ 1	ESE	2	b	1	54	39	0.04		
Perpignan ...	29.76	50	NW	8	0	29.95	+ 3.1	47	39	0	NW	3	b	*	54	41	-		
Biarritz ...	29.95	48	N	4	0	30.10	+ 2.3	46	41	+ 3	ESE	3	0	1	54	?	-		
PENINSULAR.																			
Corunna ...	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*		
Lisbon ...	29.98	51	NW	5	b	30.09	+ 1.9	52	48	+ 1	NW	4	b	?	59	48	-		

For Explanation of Columns, see p. 4.

† Received too late for insertion in *Chart* on p. 8.

WEATHER CHARTS

for 8 a.m. on

Thursday, 18th April.

BAROMETER, WIND & SEA.

(Explanation of Map)

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

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

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

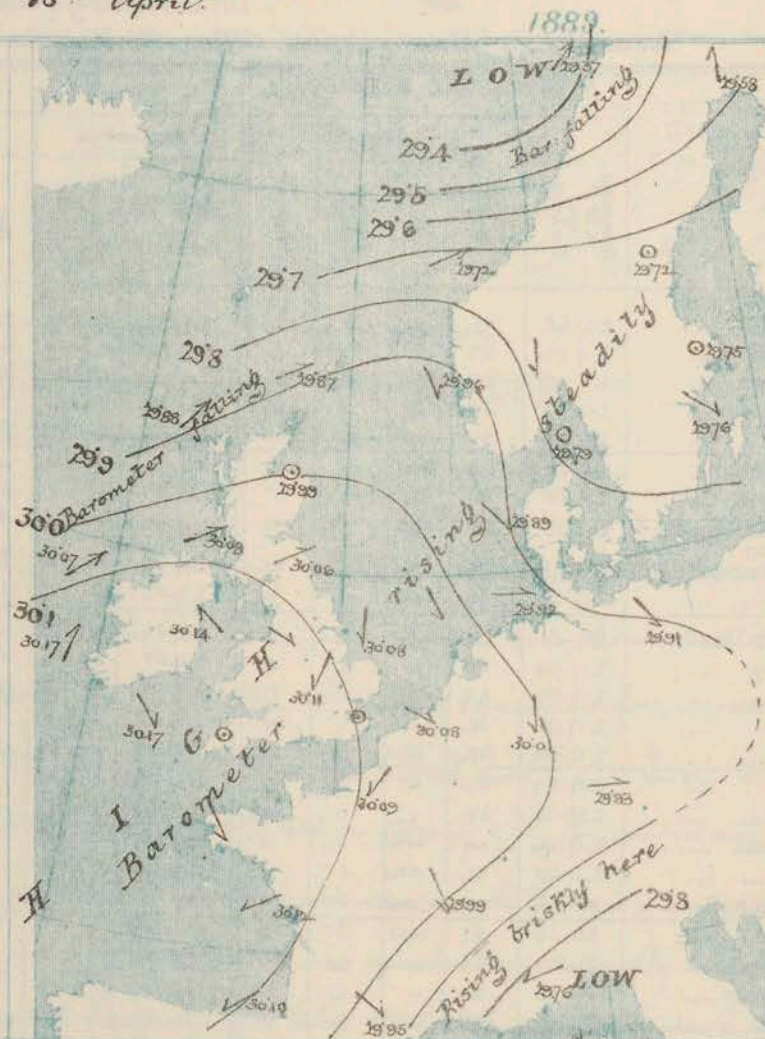
Sea Disturbance — where considerable is shown thus.

■ = Rough ■ = High

MEAN HEIGHT of the BAROMETER

at 8 a.m. for the month of April.
During the 15 Years 1871 — 1885.

STATIONS	MEAN READINGS.
	in.
Sumburgh Head	29.849
Stornoway	29.821
Wick	29.853
Nairn	29.863
Aberdeen	29.862
Leith	29.865
Shields	29.870
York	29.877
Loughborough	29.878
Ardrossan	29.857
Donaghadee	29.853
Holyhead	29.851
Liverpool	29.864
Parsonstown	29.853
Valencia	29.835
Roche's Point	29.833
Pembroke	29.844
Scilly	29.849
Jersey	29.867
Hurst Castle	29.867
Dover	29.866
LONDON	29.877
Oxford	29.882
Cambridge	29.879
Yarmouth	29.876



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.

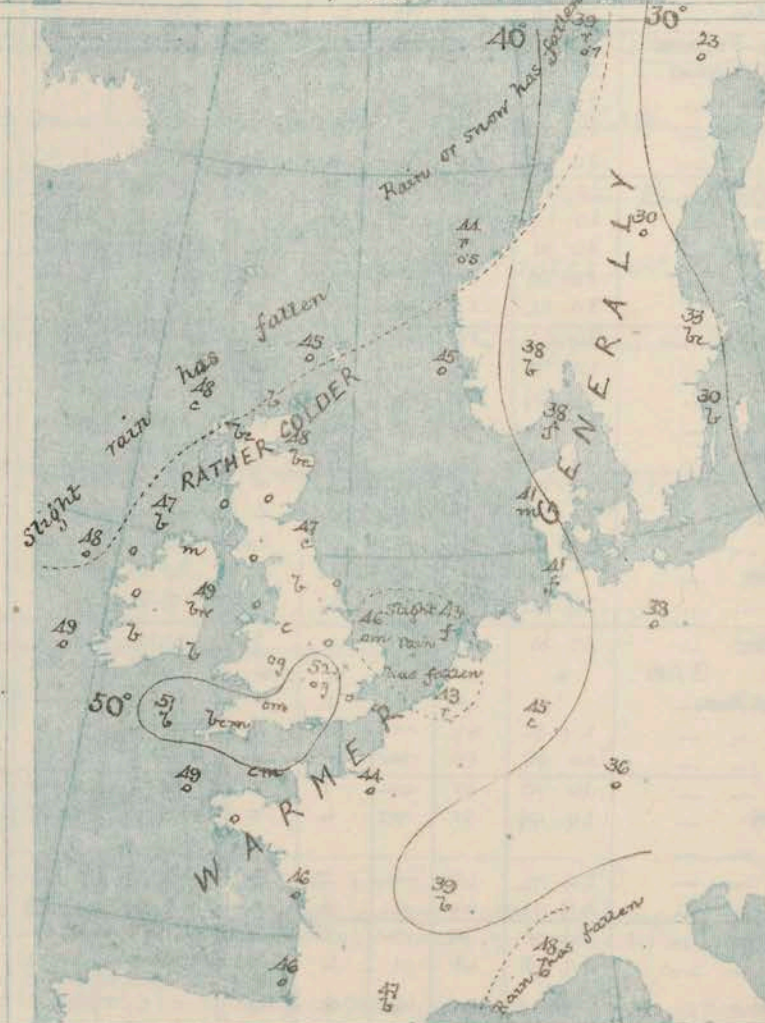
MEANS OF TEMPERATURE IN SHADE.

AND RAINFALL.

for the month of April.

STATIONS	TEMPERATURE.				RAINFALL.
	Daily Max.	Daily Min.	at 8 a.m.	at 8 a.m.	
			Dry	Wet	(Inches)
Sumburgh Head	48.3	37.3	41.9	40.5	2.16
Stornoway	40.3	37.5	44.1	42.3	2.61
Wick	49.2	37.4	43.2	41.2	1.56
Nairn	51.5	37.9	43.1	40.6	1.23
Aberdeen	49.6	38.5	43.4	40.9	2.23
Leith	52.6	38.2	44.2	42.1	1.65
Shields	49.2	39.2	43.8	41.7	1.04
York	54.1	37.8	44.1	42.0	1.86
Loughborough	55.7	38.3	45.1	42.6	1.77
Ardrossan	52.1	39.9	44.6	42.2	2.23
Donaghadee	51.3	40.1	44.8	43.2	2.02
Holyhead	51.9	42.4	46.2	44.2	1.86
Liverpool	53.0	40.7	45.5	42.6	1.56
Parsonstown	55.0	38.3	45.7	43.0	2.15
Valencia	54.8	42.9	48.4	45.9	4.01
Roche's Point	54.2	42.4	47.0	44.9	3.43
Pembroke	50.8	42.1	45.6	43.6	2.10
Scilly	52.5	45.0	49.0	47.1	2.45
Jersey	54.6	43.6	49.0	46.4	2.04
Hurst Castle	52.3	41.4	45.9	44.6	1.37
Dover	51.5	42.4	47.1	44.5	1.81
LONDON	55.7	40.0	46.8	43.8	1.86
Oxford	55.1	39.3	45.0	42.7	1.79
Cambridge	56.2	37.7	45.5	43.3	1.76
Yarmouth	49.5	40.4	45.1	43.4	1.80

Note — The Temperature means are for the 15 years 1871 — 85, the Rainfall means are mainly those for the 30 years 1866 — 95



GENERAL SITUATION AT 8 A.M.

PRESSURE

Highest, 30.1 in. and upwards, over the greater part of Ireland and England, and the west and north of France.
Lowest, 29.4 in. and less, in a depression lying off the northwest of Norway; 29.5 in. and less, over the Gulf of Genoa; 29.3 in. and less, in the extreme north and northwest of Scotland.
Gradients moderate over the north of Scandinavia, but slight elsewhere.
Barometer falling in the extreme north and northwest of our Islands and also in the north of Scandinavia, but rising elsewhere.

TEMPERATURE

Highest, 54° at Havre la Pout, 52° in London and at Lisbon, 51° at Cambridge and Leilly, and 50° at Hurst Castle and Jersey.
Lowest, 23° at Haparanda, 30° at Helsingfors and Wisby, 33° at Stockholm, 36° at Munich, and 38° at London, Prague and Berlin.
During yesterday the thermometer rose to 60° at Kinn and Aberdeen and 62° at Leith.

WIND

Moderate from the SW^{ly} over the greater part of Ireland and Scotland, strong from the same quarter in the west of Norway.
Light or moderate from the NW^{ly} over Denmark, Germany, the Netherlands, the south of England and the north of France.
Light from NE. in the south of France; calm over Central Sweden.

WEATHER

Fine in the south of Scandinavia, the north and east of Scotland, the west and southwest of England and the south of France.
Dull in most other localities, with fog in Denmark and Holland and rain in the west of Norway.
Since yesterday morning heavy rain has fallen in the west of Norway, and slight amounts in the extreme north of Scotland and east of England.

SEA

Slight or smooth generally.

PROBABLE CHANGES IN SYSTEM NOW PREVALENT

The anticyclone recently noticed in the west of our Islands is spreading eastwards over England and France, and fair weather is therefore likely to prevail for a time over our southern districts.

A depression which is approaching our extreme northwest coast will probably occasion freshening S^{ly} and SW^{ly} winds and showery weather in Ireland and Scotland.

FORECASTS

for the 24 hours ending at NOON on 19th APRIL 1889.

DISTRICTS.

FORECASTS.

1	SCOTLAND NORTH	SW ^{ly} winds, moderate to strong; cloudy, some rain.
7	SCOTLAND EAST	SW ^{ly} winds, freshening; fine to showery.
2	ENGLAND N.E.	SW ^{ly} and W ^{ly} winds, moderate; fair generally.
3	ENGLAND EAST	N ^{ly} to NW ^{ly} or W ^{ly} winds, light, fair, mild.
4	MIDLAND COUNTIES	
5	ENGLAND SOUTH	

DISTRICTS.

FORECASTS.

6	SCOTLAND WEST	Same as No 1.
7	ENGLAND N.W.	Same as No 2.
8	ENGLAND S.W.	Variable breezes, finally SW ^{ly} ; fair generally.
9	IRELAND NORTH	S ^{ly} and SW ^{ly} winds freshening; cloudy, some rain.
10	IRELAND SOUTH	

NONE ISSUED.

WARNINGS

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

YESTERDAY'S 2 P.M. REPORTS.

	Bar.	Dry.	Wet.	Wind.	Wes.	Sea.		Bar.	Dry.	Wet.	Wind.	Wes.	Sea.
Skudesnaes ...	29.84	40	86	W 3W 1	0	3	Holyhead ...	30.06	52	49	NW 4	bc	2
Sumburgh Head ...	29.81	47	47	WNW 3	5	4	Valencia ...	30.17	51	47	NW 2	ov	2
Stornoway ...	29.94	50	48	W 4	0	4	Saillly ...	30.09	50	46	N 4	0	4
Aberdeen ...	29.93	56	51	WNW 4	c	2	Jersey ...	30.02	50	46	WNW 3	c	3
Shields ...	29.95	55	51	NNE 1	0	3	Dungannon ...	29.95	46	44	W 4	0	3
Ardrossan ...	30.04	49	48	WNW 3	0	2	London ...	29.96	54	48	NW 2	0	*
Malin Head ...	30.07	50	47	W 3	0	3	Yarmouth ...	29.90	46	45	NW 3	odpm	3
Malcolm ...	30.11	50	46	W 3	0	2	Rochefort ...	29.98	52	45	NE 4	c	2
Belmullet ...	30.12	51	48	W 3W 3	0	*							

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

The reports for yesterday morning showed that pressure was highest, 30.1 ins. and upwards, in an anticyclone lying over and to the westward of Ireland, and lowest, 29.3 ins. and less, in a depression lying over the Baltic Provinces. In addition to the latter, however, an elongated depression with reading below 29.4 ins., extended from Turkey to the northern parts of the Adriatic, and a small disturbance, with similar reading lay over the Gulf of Genoa, while a shallow system with reading below 29.7 ins., was approaching the west of Norway. The wind was moderate from the NWnd over all the more northern and eastern parts of the United Kingdom, as well as over Denmark, North Germany, and the Baltic, and strong from the Nnd over Sweden and the Gulf of Bothnia, but in the west of Norway light E^{ly} or SE^{ly} breezes were general. Over France, the south of England, and the north of Spain the wind was N^{ly} or NE^{ly}, in the south of Spain NW^{ly}; and in Algeria and Southern Italy SW^{ly}. The weather was fine in Scandinavia, Denmark, Germany, the west of England and the southern parts of France and Spain, but cloudy or overcast elsewhere, with rain in the Hebrides and Northern Italy, and snow over Finland and the Baltic Provinces. Temperature had risen over the United Kingdom, Norway, Denmark, Spain, and the south of Italy, but fallen elsewhere; reading ranged from a little above 60° at some of the Mediterranean stations and a little above 50° in the east of Scotland and on the coast of the Iberian Peninsula to a few degrees below the freezing point over the northern parts of Sweden and Russia. The highest individual readings were 65° at Malta, 63° at Ales, 62° at Cagliari, 61° at Kismire, 60° at Lafora, 59° at Barcelona, and 58° at Amonio and Algiers; the lowest were 23° at Haparanda, 24° at Pödi and Hemsö, 26° at Uleaborg, 28° at Archangel, 29° at Kuopio and Nargo, 30° at Helsingfors and Stockholm and 31° at Riga and Breslau.

In the course of the day the shallow depression off the west of Norway appears to have dispersed, but the barometer began to fall a little on our extreme western coast, and the wind there backed to the Wnd. Temperature over Great Britain rose to a higher level than for some time past.

NOTICE.

The Daily Weather Report for tomorrow (19th) will be issued on Monday the 21st inst.

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. agly, 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).

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DAILY WEATHER REPORT.

for *Friday 19th April 1889.*
 Issued by the Meteorological Office, 63 Victoria Street, London. R.H. SCOTT, Secretary.

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 5.)	SHADE TEMP.		Amount of Rainfall.			
			Dir.	Force. (0 to 12.)			Reading at 32° F. and Sea Level.	Difference from 8 a.m. yesterday.	Dry.	Wet.	Difference from 8 a.m. yesterday.			Dir.	Force. (0 to 12.)		Max.	Min.	
SCANDINAVIA.																			
Haparanda ..	29.54	22	X	0	b	29.42	-16	37	35	+14	SW	4	bc	*	5	54	14	—	
Hernösand ...	29.74	29	X	0	b	29.55	-17	40	37	+10	Z	0	b	*	54	14	—		
Stockholm ...	29.82	42	Z	0	b	29.76	+01	47	42	+14	Z	0	b	*	52	19	—		
Wisby ...	29.82	32	W	4	b	29.80	+07	39	35	+9	SW	2	b	*	37	27	—		
Bodö ...	29.94	28	S	2	b	29.17	-20	39	36	0	SW	3	c	5	39	36	0.47		
Christiansund...	29.63	46	W	6	bc	29.50	-22	42	41	-1	W	3	b	5	46	41	0.08		
Skudesnaes ...	29.94	42	Z	0	o	29.87	-09	40	39	-5	SW	2	b	2	52	37	—		
Christiania Fjord (Farder)	29.85	41	SW	2	b	29.75	-08	37	37	-1	WNW	2	b	1	45	37	—		
Skagen (The Scaw)	29.85	40	W	1	b	29.82	+04	39	39	+1	WNW	5	b	3	46	37	—		
Fanö ...	30.01	39	NW	6	m	30.01	+12	42	42	+1	W	4	b	*	50	37	—		
BRITISH ISLANDS.																			
Sumburgh Head	29.75	48	W	6	o	29.71	-16	45	43	0	W	4	o	5	50	43	0.02		
Stornoway ...	29.78	48	SW	6	o	29.82	-06	48	46	0	NW	4	b	4	52	42	0.05		
Wick ...	29.84	49	W	2	c	29.82	-10	47	46	0	W	2	o	1	56	43	0.01		
Nairn ...	29.87	52	W	4	b	29.85	-10	45	45	-5	Z	0	2	1	57	45	0.08		
Aberdeen...	29.89	48	NE	1	bc	29.89	-10	51	46	+3	SW	4	bc	2	60	41	—		
Leith ...	30.00	49	W	2	c	29.96	-08	50	45	+3	W	4	c	*	54	45	—		
Shields ...	30.01	57	W	2	b	30.02	-04	50	46	+3	W	2	c	2	60	44	—		
Spurn Head ...	30.04	48	SE	1	b	30.11	+03	47	45	+1	W	2	b	2	49	42	—		
York ...	30.02	57	W	2	b	30.08	+03	49	47	+2	W	1	o	*	64	44	—		
Loughborough	30.09	61	W	1	b	30.20	+08	48	45	-1	W	2	o	*	64	44	—		
Ardrossan ...	30.02	47	S	2	o	29.99	-09	47	46	+1	SW	4	bc	3	48	45	—		
Malin Head ...	29.99	47	W	4	o	29.92	-13	49	48	+2	SW	5	om	4	53	47	—		
Mullaghmore ...	30.02	50	SW	4	o	29.98	-11	51	49	+4	SW	5	o	4	52	47	—		
Belmullet ...	30.01	49	SW	5	o	29.92	-15	51	50	+3	SW	7	o	*	52	48	—		
Donaghadee ...	30.06	54	W	2	bc	30.05	-07	52	50	+7	W	4	bc	2	59	46	—		
Barrow-in-Furness	30.11	48	SW	2	b	30.12	0.0	45	45	+1	SW	2	o	*	52	43	—		
Liverpool (Bidston)	30.11	54	WNW	1	b	30.16	+01	48	45	+2	W	1	o	2	53	44	—		
Holyhead ...	30.11	49	SW	2	b	30.15	+01	47	46	-2	SW	5	omg	4	53	44	—		
Parsonstown ...	30.10	52	WNW	1	c	30.11	-04	50	49	+5	W	1	o	*	56	44	—		
Valencia ...	30.14	51	S	5	o	30.13	-04	51	49	+2	S	5	o	5	51	47	—		
Roche's Point...	30.17	50	SW	2	c	30.16	0.0	50	47	+3	SW	4	o	4	54	45	—		
Pembroke ...	30.17	49	SW	2	b	30.22	+07	49	46	-1	SW	4	og	3	52	45	—		
Scilly ...	30.21	50	NW	2	o	30.25	+08	54	51	+3	SW	2	bc	4	54	46	—		
Prawle Point ...	30.18	52	W	2	bc	30.20	+13	48	41	-6	W	2	c	1	57	42	—		
Jersey ...	30.20	53	WNW	2	bc	30.32	+18	52	50	+2	WNW	2	bc	2	58	44	—		
Harst Castle ...	30.16	51	SW	2	o	30.28	+13	48	47	-2	NW	2	bc	0	57	44	—		
Dungeness ...	30.16	47	W	4	o	30.22	+12	48	47	+2	W	4	m	3	51	44	—		
London ...	30.20	57	WNW	2	bc	30.23	+12	48	46	-4	W	1	bc	*	60	43	—		
Oxford ...	30.15	53	NW	1	b	30.24	+10	48	45	0	W	2	c	*	64	44	—		
Cambridge ...	30.14	58	S	1	o	30.21	+10	47	46	-4	W	1	o	*	63	40	—		
Yarmouth ...	30.12	46	SE	2	bc	30.15	+07	51	49	+5	WNW	2	b	2	51	42	—		
Cuxhaven ...	29.95	41	WNW	4	c	30.04	+12	43	42	+2	W	4	o	*	45	40	—		
Berlin ...	29.95	44	WNW	2	bc	30.04	+13	44	42	+6	WNW	2	o	*	52	42	—		
Wiesbaden ...	*	*	*	*	*	30.23	+22	46	42	+1	NE	2	o	*	52	42	—		
Munich ...	30.07	39	W	4	o	30.16	+23	39	38	+3	W	5	o	*	45	36	0.24		
FRANCE & NETHERLANDS.																			
The Helder ...	30.13	40	WNW	1	b	30.14	+10	44	44	+1	SW	2	b	2	46	37	—		
Brussels ...	30.25	*	*	*	*	30.25	+17	48	47	+5	W	4	fo	*	51	43	—		
Cape Gris Nez...	?	46	NW	1	o	?	?	45	44	+2	SW	4	b	3	54	43	0.04		
Paris ...	30.16	52	N	2	b	30.31	+22	41	40	-3	S	1	b	*	55	34	—		
Brest ...	30.20	?	N	2	o	30.34	+17	48	48	-1	E	1	c	1	54	39	—		
Lorient ...	30.18	54	Z	0	m	30.28	+15	48	45	0	E	2	m	1	57	46	—		
Rocheport ...	30.19	52	NW	2	c	30.34	+22	48	46	+2	E	1	b	1	59	41	—		
Belfort ...	30.03	56	E	1	c	30.23	+20	52	49	+3	W	1	c	*	66	36	—		
Lyons ...	30.04	51	N	4	b	30.26	+27	47	42	+8	WNW	2	c	*	54	?	—		
Nice ...	29.93	51	N	2	b	30.07	+31	49	43	+1	E	2	b	1	59	43	—		
Perpignan ...	30.06	54	NW	2	b	30.21	+26	54	45	+7	NW	2	b	*	57	?	—		
Biarritz ...	30.20	51	WNW	2	o	30.32	+22	48	45	+2	S	2	o	1	57	46	—		
PORTUGAL.																			
Corunna ...	*	*	*	*	*	30.21	+23	52	49	0	ENE	2	b	3	57	43	—		
Lisbon ...	30.20	52	WNW	4	b	30.32	+24	52	50	+1	Z	0	b	2	61	48	—		

WEATHER CHARTS

for 8 a.m. on

Friday, 19th April,

1889.

BAROMETER, WIND & SEA.

(Explanation of Map)

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

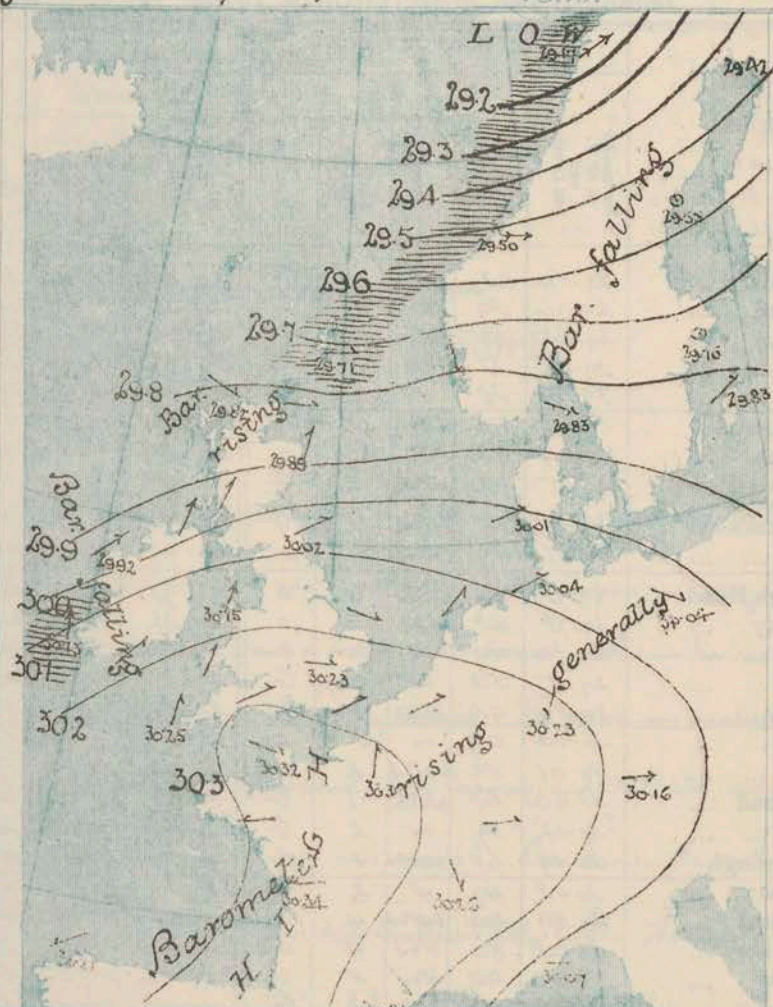
Sea Disturbance — where considerable, is shown thus.

— Rough — High

MEAN HEIGHT of the BAROMETER

at 8 a.m. for the month of April.
 During the 15 Years 1871—1885.

STATIONS.	MEAN READINGS.
	in.
Sumburgh Head	29.840
Stornoway	29.821
Wick	29.858
Nairn	29.853
Aberdeen	29.862
Leith	29.865
Shields	29.870
York	29.877
Loughborough	29.878
Ardrossan	29.857
Donaghadee	29.853
Holyhead	29.851
Liverpool	29.864
Parsonstown	29.858
Valencia	29.835
Roche's Point	29.838
Pembroke	29.844
Scilly	29.840
Jersey	29.867
Hurst Castle	29.867
Dover	29.860
LONDON	29.877
Oxford	29.882
Cambridge	29.879
Yarmouth	29.876



TEMPERATURE, & WEATHER at 8 A.M.

with RAINFALL in PAST 24 HOURS.

Temperature — Isotherms are drawn for each 1° change 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.

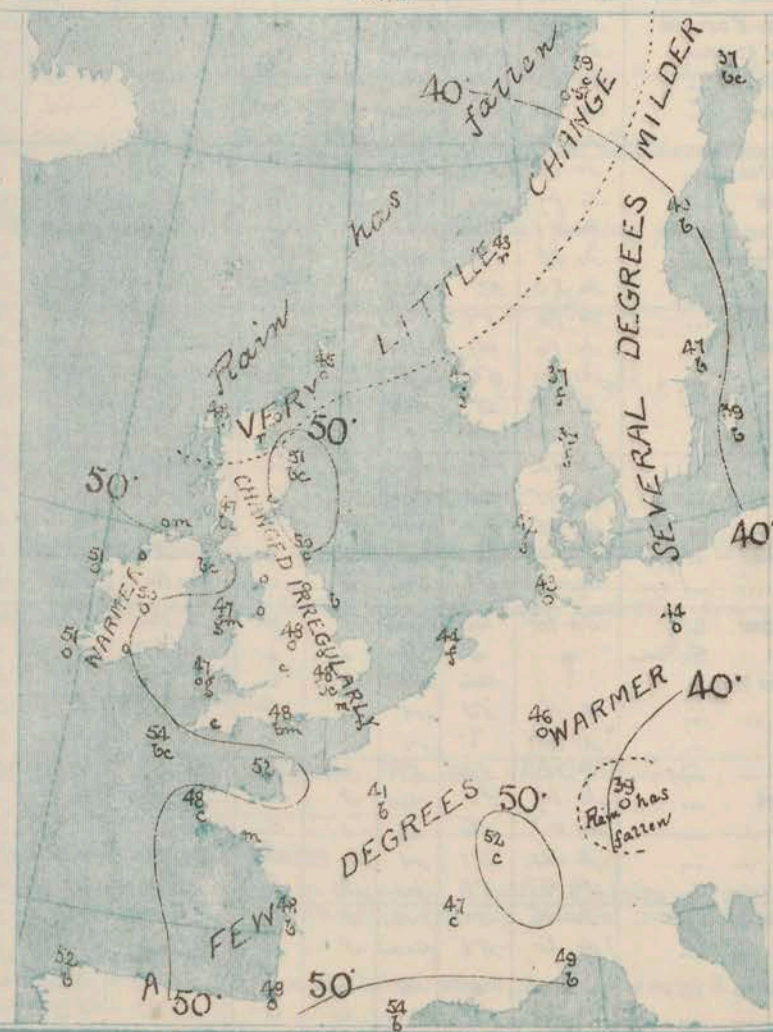
MEANS OF TEMPERATURE IN SHADE.

AND RAINFALL.

for the month of April.

STATIONS	TEMPERATURE.				RAINFALL. (Inches)
	Daily Max.	Daily Min.	at 8 a.m.		
			Dry.	Wet.	
Sumburgh Head	46.3	37.3	41.9	40.5	2.16
Stornoway	49.3	37.5	44.1	42.3	2.51
Wick	49.2	37.4	43.2	41.2	1.56
Nairn	51.5	37.9	43.1	40.6	1.23
Aberdeen	49.6	38.5	43.4	40.9	2.23
Leith	52.6	38.2	44.2	42.1	1.05
Shields	49.2	39.2	43.8	41.7	1.94
York	54.1	37.8	44.1	42.0	1.86
Loughborough	55.7	38.3	45.1	42.6	1.77
Ardrossan	52.1	39.9	44.6	42.2	2.23
Donaghadee	51.8	40.1	44.8	42.2	2.02
Holyhead	51.9	42.4	46.2	44.2	1.86
Liverpool	53.0	40.7	45.5	42.6	1.56
Parsonstown	55.0	38.3	45.7	43.0	2.15
Valencia	54.3	42.0	48.4	45.9	4.01
Roche's Point	54.2	42.4	47.0	44.9	3.43
Pembroke	50.8	42.1	45.6	43.6	2.10
Scilly	52.6	45.0	49.0	47.1	2.45
Jersey	54.6	43.6	49.0	45.4	2.04
Hurst Castle	52.3	41.4	45.9	44.6	1.87
Dover	51.5	42.4	47.1	44.5	1.81
LONDON	56.7	40.0	46.8	43.8	1.86
Oxford	55.1	39.3	45.0	42.7	1.79
Cambridge	56.2	37.7	45.5	43.3	1.76
Yarmouth	49.5	40.4	45.1	43.4	1.80

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



GENERAL SITUATION AT 8 A.M.

PRESSURE

Highest, 30.3 in. and upwards, in an anticyclone stretching from Spain across the west and north of France to the English Channel.
Lowest, 29.2 in. and less, in a depression lying off the extreme northwest of Norway.
Gradients rather steep over the north of Scandinavia and the west and north of Ireland, but moderate or slight elsewhere.
Barometer falling in Scandinavia and the west and north of our islands, but rising in nearly all other localities.

TEMPERATURE

Highest, 54° at Sally and Perpignan, 53° at Donaghadee and Lisbon, 52° at Jersey and Corunna, and 51° at Aberdeen, Belmullet, Mullaghmore & Valencia.
Lowest, 37° at Haparanda and Thorsden, 39° at Bodø, Trondheim and Skagen and 40° at Helsingfors, Stockholm and Munich.
During yesterday the thermometer rose to 63° at Cambridge and 64° at York, Loughborough and Oxford.

WIND

Moderate or fresh from the S.W. over our western coasts and the south and east of Scotland, but very strong at Belmullet.
Light from the W. in the south and east of England and moderate from the same quarter on the eastern shores of the North Sea.
Strong to a gale from W. and S.W. in the west of Norway; light from the E. in the west of France.

WEATHER

Fine in Sweden, France and the east and south of our islands.
Cloudy in most other localities, with fog in Denmark, Holland and the south of Norway and rain in the north of Scotland.
Since yesterday morning rain has fallen in the west of Norway, the largest amount being 0.5 in. at Bodø.

SEA

Rather rough off the Shetlands and west of Norway, as well as at Valencia, but moderate to smooth elsewhere.

PROBABLE CHANGES IN SYSTEM NOW PREVALENT

FORECASTS

For the 24 hours ending at NOON on 20th April 1889.

DISTRICTS.

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

FORECASTS.

ISSUED

NONE

DISTRICTS.

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

FORECASTS.

ISSUED

NONE

WARNINGS

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

YESTERDAY'S 2 P.M. REPORTS.

	Bar.	Dry.	Wet.	Wind.	Wca.	Sea.		Bar.	Dry.	Wet.	Wind.	Wca.	Sea.
Skudesnæs ...	29.97	49	45	WNW 4	bc	2	Holyhead ...	30.14	54	50	SW 1	bc	1
Samburgh Head ...	29.82	48	45	SW 2	c	4	Valencia ...	30.16	50	47	S 4	om	4
Sornoway ...	29.83	52	51	SW 6	c	5	Scilly ...	30.19	52	50	WNW 2	bc	2
Aberdeen ...	29.87	52	49	ESE 1	bc	2	Jersey ...	30.19	52	52	WNW 2	o	2
Shields ...	30.02	52	51	W 2	bc	2	Dungeness ...	30.15	48	46	SW 4	o	2
Ardrossan ...	30.07	48	46	SW 2	o	1	London ...	30.15	58	54	S 0	om	*
Malin Head ...	30.08	53	51	SW 2	c	2	Yarmouth ...	30.12	48	47	NNE 1	om	2
Mullaghmore ...	30.07	51	47	WSW 2	o	2	Rocheport ...	30.17	57	51	WNW 2	bc	2
Belmullet ...	30.06	51	50	SW 4	o	*							

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

The reports for yesterday morning showed that pressure varied from between 30.1 ins. and about 30.2 ins. over the western parts of our Islands, the Bay of Biscay, and the northern and western parts of France and Spain to 29.3 ins. and less over Southern Russia, to 29.4 ins. and less over the Baltic provinces, and to about the same value off the west coast of Lapland. Over Russia the mercury was falling; over central Europe and France it was rising, but on our northwestern coasts it was falling again. Northwesternly and northerly breezes were blowing over central Europe, Holland, and the eastern half of England and Northerly winds on the northern shores of the Mediterranean, but in Ireland, Scotland, and the northwest of Norway the wind was Southwesternly, and had increased to a moderate gale at the Norwegian stations. The weather was fine over southwestern Europe, cloudy generally elsewhere - with snow in several parts of Russia and steady rain in the west of Norway, as well as over the central parts of Italy. Temperature was increasing over western Europe generally; it was still below the freezing point in Sweden and in several parts of northern Russia. The lowest morning values were 23° at Haparanda, 30° at Uleaborg, Hernösand, Wisby, and Riga, 31° at Archangel and St. Petersburg, 32° at Moscow and Memel, 33° at Warsaw, 35° at Lemberg and Cracow, 36° at Munich, 38° at Berlin and the Scaur; the highest were 59° at Brindisi, 57° at Nemours and Palermo, 55° at San Fernando, 54° at Cagliari, 53° at Sanguinaires, 52° at Corunna and in London, 51° at Cambridge and Scilly, and 49° at Valencia. At Paris the temperature was 44° and at Berlin 38°.

Later in the day the Russian depressions underwent considerable modifications and a new system of low pressure began to approach northwestern Europe from the Atlantic. Temperature increased considerably over England 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 *Saturday, 20th April, 1889.*
Issued by the Meteorological Office, 63 Victoria Street, London. R. H. SCOTT, Secretary.

Issued by the Meteorological Office, 53, Abchurch Lane, London, E.C. 4, N.W. 1.

STATIONS.	† YESTERDAY EVENING.						§ A.M. TO DAY.										PAST 24 HOURS.		
	Barometer at 32° F. and Sea Level.	Temp. to Shade.	WIND.		Weather.	Reading at 32° F. and Sea Level.	Difference from 8 a.m. yesterday.	SHADE TEMP.			WIND.		Weather.	Sea. (0 to 2.)	SHADE TEMP.		Amount of Rainfall.		
			Dir.	Force. (0 to 12.)				Dry.	Wet.	Difference from 8 a.m. yesterday.	Dir.	Force. (0 to 12.)			Max.	Min.			
SCANDINAVIA.																			
Haparanda ..	29.38	36	W	2	b	29.48	+ .06	35	33	- 2	NW	4	b	*	41	18	-		
Hernösand ...	29.58	45	NW	2	b	29.67	+ .12	42	36	+ 2	WNW	2	bc	*	59	34	-		
Stockholm ...	29.60	45	W	4	b	29.69	- .07	43	39	- 4	2	0	c	*	61	36	-		
Wisby ...	29.72	41	SW	4	b	29.76	- .07	36	35	- 3	W	4	b	*	52	30	-		
Bodö ...	29.42	34	W	4	m	29.50	+ .33	34	32	- 5	SW	6	c	3	39	28	-		
Christiansund...	29.66	40	WSW	7	r	29.62	+ .12	41	40	- 2	WSW	4	r	4	43	37	0.63		
Skudesnaes ...	29.88	40	NE	1	0	29.76	- .11	42	40	+ 2	ESE	2	0	3	46	37	-		
Christiania Fjord	29.73	43	WSW	3	b	29.76	+ .01	41	38	+ 4	WSW	3	b	1	43	?	-		
(Færder)																			
Skagen (The Sea)	29.82	40	WNW	3	bc	29.80	- .03	42	41	+ 3	WNW	3	f	2	45	39	-		
Fanø ...	30.02	41	W	4	b	29.96	- .05	42	41	0	W	4	0	*	48	41	-		
BRITISH ISLANDS.																			
Sumburgh Head	29.75	46	W	3	b	29.59	- .12	44	43	- 1	SW	1	c	3	50	41	-		
Stornoway ..	29.79	50	W	4	c	29.56	- .26	48	47	0	W	4	c	4	52	41	0.08		
Wick ...	29.84	48	W	2	bc	29.58	- .24	47	46	0	SW	2	c	1	52	41	0.10		
Nairn ...	29.82	51	SW	1	b	29.63	- .22	47	45	+ 2	SW	1	b	1	52	39	0.19		
Aberdeen...	29.86	53	SW	3	c	29.66	- .23	47	44	- 4	SSW	2	cp	2	59	46	0.05		
Leith ...	29.92	51	W	4	0	29.71	- .25	50	47	0	W	5	cp	*	59	44	0.01		
Shields ...	30.00	53	SW	4	c	29.79	- .23	51	48	+ 1	SW	4	c	2	55	46	-		
Spurn Head ...	30.17	50	SSW	5	0	29.91	- .20	51	48	+ 4	SSW	5	bc	4	52	45	-		
York ...	30.07	51	WSW	1	0	29.86	- .22	50	47	+ 1	WSW	2	0	*	55	46	-		
Loughborough	30.19	50	W	4	0	29.96	- .24	49	46	+ 1	SW	4	cp	*	52	46	-		
Ardrossan ...	29.95	48	SW	4	r	29.75	- .24	48	47	+ 1	WSW	5	c	4	50	45	0.27		
Malin Head ...	29.92	48	WSW	2	0	29.74	- .18	48	46	- 1	SW	5	b	3	50	44	0.32		
Mullaghmore ...	29.94	51	SSW	5	r	29.82	- .16	49	46	- 2	SW	5	c	4	58	44	0.27		
Belmullet ...	29.93	50	WSW	4	r	29.81	- .11	50	48	- 1	SW	5	0	*	51	45	0.76		
Donaghadee ...	29.99	54	WSW	5	c	29.83	- .22	50	47	- 3	WSW	4	b	2	57	45	0.09		
Barrow-in-Furness	30.07	47	S	4	c	29.86	- .26	47	46	+ 2	S	5	0	*	48	45	0.05		
Liverpool (Bidston)	30.11	50	WSW	5	c	29.90	- .26	51	48	+ 3	WSW	3	0	4	55	47	0.04		
Holyhead ...	30.10	48	SW	5	0	29.90	- .25	50	47	+ 3	W	5	bcp	4	50	46	0.04		
Parsonstown ...	30.03	53	WSW	2	0	29.94	- .17	49	47	- 1	SW	2	0	*	56	44	-		
Valencia ...	30.03	52	S	6	om	30.00	- .13	52	48	+ 1	SW	4	0	5	53	46	0.15		
Roche's Point...	30.13	50	SW	4	0	30.02	- .14	50	48	0	W	4	bc	4	50	45	0.20		
Pembroke ...	30.18	47	SSW	5	0	30.03	- .19	48	46	+ 1	W	5	bcp	5	48	46	0.03		
Scilly ...	30.22	53	SSW	5	0	30.14	- .11	52	50	- 2	WSW	5	c	5	56	47	-		
Prawle Point ...	30.26	49	WSW	3	b	30.13	- .17	49	48	+ 1	WSW	4	c	3	53	45	-		
Jersey ...	30.31	55	SSW	2	og	30.22	- .10	52	49	0	SW	3	bcp	3	59	45	-		
Hurst Castle ...	30.28	50	WSW	3	b	30.12	- .16	48	47	0	WSW	5	om	2	54	46	-		
Dunagosa ...	30.24	49	WSW	5	bc	30.14	- .08	47	46	- 1	WSW	5	0	3	53	40	-		
London ...	30.20	59	WNW	2	bc	30.09	- .14	51	48	+ 3	WSW	2	0	*	65	45	-		
Oxford ...	30.23	50	WSW	2	c	30.05	- .19	49	47	+ 1	SSW	3	0	*	58	44	-		
Cambridge ...	30.19	52	W	1	c	30.03	- .13	51	48	+ 4	SW	2	0	*	61	40	-		
Yarmouth ...	30.18	53	WNW	2	bc	30.02	- .13	51	49	0	SW	4	bc	3	55	44	-		
Cuxhaven ...	30.10	44	WNW	3	b	30.06	+ .02	46	45	+ 3	WSW	3	f	*	50	43	-		
Berlin ...	30.07	53	WNW	2	b	30.11	+ .07	50	47	+ 6	WNW	4	0	*	57	?	-		
Wiesbaden ...	*	*	*	*	*	30.26	+ .03	50	49	+ 4	2	0	b	*	64	43	-		
Munich ...	30.32	45	W	3	c	30.34	+ .18	48	44	+ 9	SW	4	c	*	48	39	-		
FRANCE & NETHERLANDS.																			
The Helder ...	30.19	46	W	1	f	30.08	- .06	45	44	+ 1	SW	2	0	3	48	?	-		
Brussels 9 AM.	*	*	*	*	*	30.17	- .08	55	52	+ 7	WSW	3	0	*	64	?	-		
Cape Gris Nez...	?	48	SSW	4	b	?	?	50	48	+ 5	SW	3	0	2	52	43	-		
Paris ...	30.30	65	S	1	b	30.27	- .04	51	47	+ 10	SSW	2	b	*	69	?	-		
Brest ...	30.33	65	2	0	b	30.28	- .06	51	48	+ 3	SW	4	f	4	57	43	-		
Lorient ...	30.33	52	SW	2	m	30.27	- .01	50	48	+ 2	SW	3	m	2	59	46	-		
Rochefort ...	30.39	55	WNW	4	b	30.35	+ .01	48	45	0	WSW	1	f	2	68	41	-		
Belfort ...	30.24	59	E	1	b	30.27	+ .04	51	45	- 1	E	1	b	*	67	37	-		
Lyons ...	30.28	58	N	3	b	30.35	+ .09	49	45	+ 2	SSE	1	b	*	63	44	-		
Nice ...	30.15	55	2	0	bc	30.29	+ .22	54	50	+ 5	SE	1	b	1	59	48	-		
Perpignan ...	30.26	66	HW	3	b	30.34	+ .13	58	47	+ 1	SW	1	b	*	69	43	-		
Biarritz ...	30.35	56	WNW	4	b	30.34	+ .02	52	49	+ 4	S	3	b	1	61	46	-		
PORTUGAL.																			
Corunna ...	*	*	*	*	*	30.37	+ .04	53	51	0	N	3	c	1	63	48	-		
Lisbon ...	30.36	55	WNW	4	b														

SCANDINAVIA.

BRITISH ISLANDS.

GERMANY.

FRANCE & NETHERLANDS.

PORTUGAL.

For Explanation of Columns, see p. 2.

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

WEATHER CHARTS

for 8 a.m. on SATURDAY - 20TH APRIL. 1889.

BAROMETER, WIND & SEA.

(Explanation of Map)

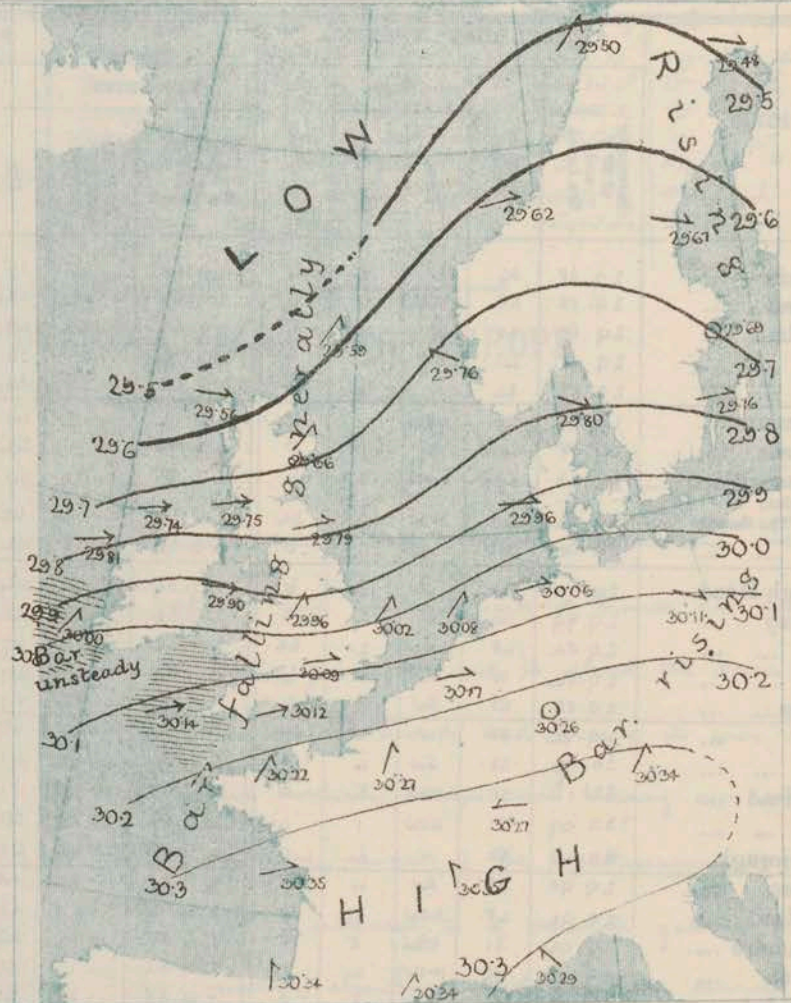
Barometer — Isobars are drawn for each tenth of an inch. Changes since previous morning are stated in words.
Wind — Arrows show the prevalent winds. They fly with the wind and their barbs and feathers refer to force, thus —
 * — forces above 10; — forces 8 to 10;
 — forces 5 to 7; — forces 1 to 4;
 ○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

Sea Disturbance — where considerable is shown thus:
 — Rough — High

MEAN HEIGHT of the BAROMETER

at 8 a.m. for the month of April.
 During the 16 Years 1871—1885.

STATIONS	MEAN READINGS
	in.
Sumburgh Head	29.849
Stornoway	29.821
Wick	29.853
Nairn	29.853
Aberdeen	29.862
Leith	29.865
Shields	29.870
York	29.877
Loughborough	29.878
Ardrossan	29.857
Donaghadee	29.853
Holyhead	29.851
Liverpool	29.864
Parsonstown	29.853
Valencia	29.835
Roche's Point	29.838
Pembroke	29.844
Selly	29.849
Jersey	29.867
Hurst Castle	29.867
Dover	29.896
LONDON	29.877
Oxford	29.882
Cambridge	29.879
Yarmouth	29.876



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.

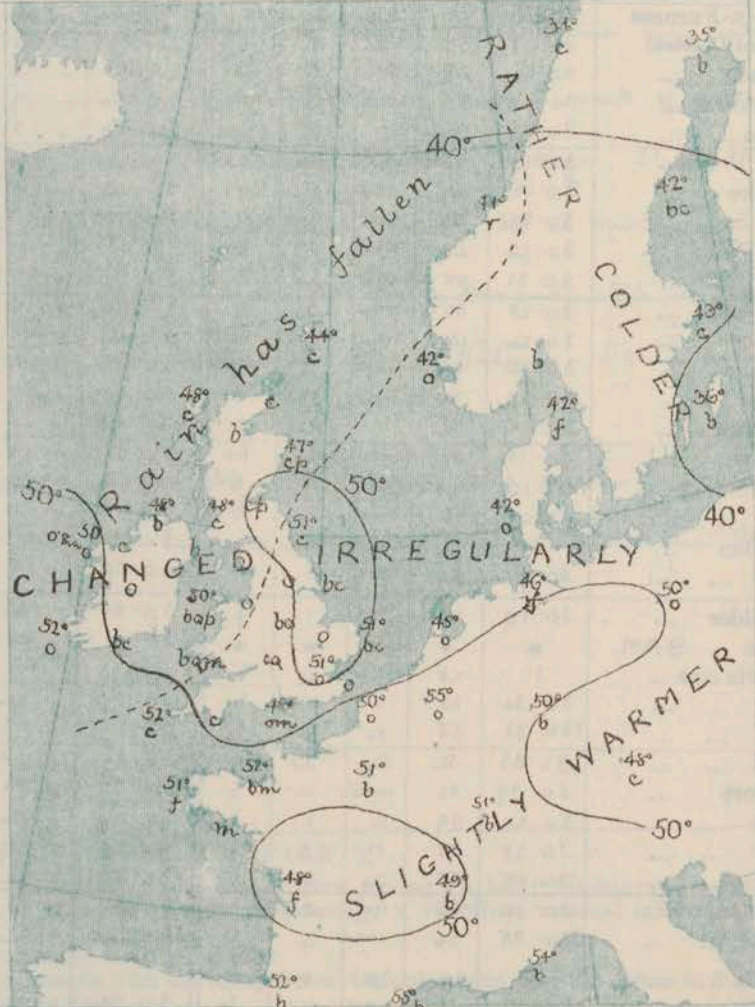
MEANS OF TEMPERATURE IN SHADE.

AND RAINFALL.

for the month of April.

STATIONS	TEMPERATURE.				RAINFALL. (Inches)
	Daily Max.	Daily Min.	at 8 a.m.		
			Dry.	Wet.	
Sumburgh Head	46.3	37.3	41.9	40.5	2.16
Stornoway	49.3	37.5	44.1	42.3	2.51
Wick	49.2	37.4	43.2	41.2	1.56
Nairn	51.6	37.9	43.1	40.6	1.23
Aberdeen	49.6	38.5	43.4	40.9	2.23
Leith	52.6	38.2	44.2	42.1	1.65
Shields	49.2	39.2	43.8	41.7	1.54
York	54.1	37.8	44.1	42.0	1.86
Loughborough	55.7	38.3	45.1	42.6	1.77
Ardrossan	52.1	39.9	44.6	42.2	2.23
Donaghadee	51.3	40.1	44.8	42.2	2.02
Holyhead	51.9	42.4	46.2	44.2	1.86
Liverpool	53.0	40.7	45.5	42.6	1.56
Parsonstown	55.0	38.3	45.7	43.0	2.15
Valencia	54.3	42.9	48.4	45.9	4.01
Roche's Point	54.2	42.4	47.0	44.9	3.43
Pembroke	50.8	42.1	45.6	43.6	2.10
Scilly	52.5	45.0	49.0	47.1	2.45
Jersey	54.6	43.6	49.0	46.4	2.04
Hurst Castle	52.3	41.4	45.9	44.8	1.87
Dover	51.5	42.4	47.1	44.5	1.81
LONDON	56.7	40.0	46.8	43.8	1.86
Oxford	55.1	39.3	45.0	42.7	1.79
Cambridge	56.2	37.7	45.5	43.3	1.76
Yarmouth	49.5	40.4	45.1	43.4	1.80

Note — The Temperature means are for the 16 years 1871—85, the Rainfall means are mainly those for the 20 years 1866—85



GENERAL SITUATION AT 8 A.M.

PRESSURE	Highest 30.2 in. to 30.3 in. and more, over France, the Bay of Biscay and Spain. Lowest 29.6 in. and less, to the northward of the British Islands. Gradients moderate, for S.W. winds, Barometer falling unsteadily.
TEMPERATURE	Highest 58° at Perpignan, 54° at Nice, 53° at Lisbon, 52° at Biarritz, Valencia, and Sicily, 51° at Liverpool, 49° at London, and 50° at Berlin. Lowest 34° at Bodo, 36° at Wisby, 41° at Christiansund and Faerder, 44° at Dunbar Head, and 47° at Aberdeen. It rose to 69° at Paris, 65° in London, 61° at Cambridge, and 59° at Aberdeen yesterday.
WIND	S.W. $\frac{1}{2}$, moderate to fresh, in our Islands generally, and is backing at Valencia. W. $\frac{1}{2}$ and S.W. $\frac{1}{2}$, moderate over the North Sea and Scandinavia. Variable and light over the central and southern parts of France.
WEATHER	Fine and bright in France and Spain, changeable over all the more northern countries, with showers and intervals of bright sunshine alternately. A great deal of rain has fallen at Belmullet since yesterday.
SEA	Rather rough on our southwest coasts, moderate in the west, slight or smooth elsewhere.

PROBABLE CHANGES IN SYSTEM NOW PREVALENT

Shallow depressions are passing from a southwesterly direction across our area at times, and these appear likely to increase in intensity. The South Cone was hoisted last evening in districts 7 to 10 and is still up.

FORECASTS

for the 24 hours ending at NOON on 17th April 1889.

DISTRICTS.	FORECASTS.	DISTRICTS.	FORECASTS.
0 SCOTLAND NORTH	S.W. breezes, moderate or fresh; mild, showery.	6 SCOTLAND WEST	S.W. breezes strong; squally, showery.
1 SCOTLAND EAST		7 ENGLAND N.W.	
2 ENGLAND N.E.	S.W. and S. winds, freshening; showers with bright intervals.	8 ENGLAND S.W.	S. winds, strong; squally, showery.
3 ENGLAND EAST		9 IRELAND NORTH	
4 MIDLAND COUNTIES	S.W. and S. winds, freshening; squally, showery, some bright intervals.	10 IRELAND SOUTH	The SOUTH CONE is still up in districts 7 to 10.
5 ENGLAND SOUTH			

WARNINGS

Note.—The South Cone, point downwards (∇) means that gales, or strong winds, are probable, at first from the Southward (from S.E. round by S. to N.W.) Should it appear likely that a gale beginning from between W. and N.W. is likely to veer towards N. or N.E. the North Cone is hoisted in preference to the South Cone.
The North Cone, point upwards (Δ) 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.	Dry.	Wet.	Wind.	Wea.	Sea.		Bar.	Dry.	Wet.	Wind.	Wea.	Sea.
Skudesnaes ...	29.68	46	44	W 4	c 6	3	Holyhead ...	30.14	48	47	SSW 5	o g m y	5
Samburgh Head ...	29.77	49	46	W 3	b	4	Valencia ...						
Stornoway ...	29.82	52	49	W 4	c	4	Sailly ...						
Aberdeen ...							Jersey ...	30.35	56	51	W 3	b	3
Shields ...							Dungeness ...	30.44	51	48	WSW 5	b c	4
Ardrossan ...	29.97	49	48	S 4	c	3	London ...						
Malin Head ...	29.93	48	48	WSW 4	o	3	Yarmouth ...						
Mullaghmore ...	29.98	53	49	WSW 5	o g r	5	Rocheport ...	30.31	67	55	NW 1	b	2
Belmullet ...	29.99	49	49	SW 3	o	*							

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

The reports for yesterday morning showed that pressure ranged from between 30.2 in. and 30.4 in. over Spain, France and the south of the British Islands to rather below 30.0 in. in a depression over Sardinia and the neighbouring parts of the Mediterranean, to 29.5 in. and less, in another over Central Russia, and to 29.2 in. and less, in the extreme north of Norway. The gradients were moderate generally, but while the barometer was rising at the French, the southern English, and the Scotch stations, it was beginning to fall again on our western coasts, as though some new disturbance was approaching the west of our Islands from the Atlantic. The wind, though NW^{ly} over Germany, Austria and western Russia, had become W^{ly} over England, the North Sea and Norway, and SW^{ly} on our western coasts, and in Lapland; in most places it was moderate, but at Bodø, Christiansund and Belmullet had increased to a gale, with an unsettled appearance. Temperature was increasing at many of the Continental stations; it was below the freezing point over Finland only. The lowest morning values were 29° at St Petersburg, 30° at Kuopio, 32° at Archangel and Lemberg, 33° at Warsaw, Racow and Kiev, 34° at Moscow 35° at Hermannstadt, 39° at Wiborg and Bodø; the highest were 58° at Brindisi, 59° at Palermo and La Galle, 54° at Gen and Perpignan, 63° at Lisbon, Toulon and Donaghadee, 51° in the west of Ireland.

Later in the day temperature rose to 69° at Paris, 65° in London, 61° at Cambridge, and 59° in the east of Scotland. A great deal of rain fell at Belmullet, and showers on our western and northern coasts generally, but in the south and east the weather was very fine.

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 21 per annum, payable in advance.

DAILY WEATHER REPORT.

for Sunday 21st April 1889.

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

STATIONS.	† YESTERDAY EVENING.						3 A.M. TO DAY.										PAST 24 HOURS.		
	Barometer at 32° F. and Sea Level.	Temp. in Shade.	WIND.		Weather.	Barometer. Reading at 32° F. and Sea Level.	Differ- ence from 8 a.m. yesterday.	SHADE TEMP.		Differ- ence from 8 a.m. yesterday.	WIND.		Weather.	Sea. (0 to 9.)	SHADE TEMP.		Amount of Rainfall.		
			Dir.	Force. (0 to 12.)				Dry.	Wet.		Dir.	Force. (0 to 12.)			Max.	Min.			
SCANDINAVIA.																			
Haparanda ..	29.53	31	Z	0	bc	29.68	+2.0	29	25	-6	Z	0	bc	*	41	21	—		
Hernösand ...	29.61	36	Z	0	bc	29.70	+0.3	36	35	-6	Z	0	bc	*	52	30	—		
Stockholm ...	29.66	38	Z	0	o	29.67	-0.2	43	40	0	Z	0	c	*	54	36	—		
Wistby ...	29.72	41	WSPW	4	o	29.74	-0.2	38	37	+2	S	4	o	*	48	34	0.08		
Bodo ...	29.59	34	WSPW	2	o	29.58	0.0	33	31	-1	ENE	4	o	2	36	30	—		
Christianstad...	29.53	45	ENE	2	c	29.49	-1.3	44	41	+3	ENE	3	bc	3	66	37	0.12		
Skudesnaes ...	29.67	40	WSPW	2	o	29.58	-1.8	41	40	-1	ENE	6	bc	4	?	37	—		
Obrosten Fjord (Furder)	29.67	40	SW	2	m	29.65	-1.1	40	39	-1	WSPW	3	bc	1	45	39	—		
Skagen (The Seaw)	29.69	42	WSPW	4	o	29.71	-0.9	40	40	-2	W	3	bc	2	45	39	0.16		
Faro ...	29.83	42	WSPW	4	o	29.81	-1.5	44	43	+2	WSPW	4	c	*	48	41	—		
BRITISH ISLANDS.																			
Sumburgh Head	29.50	47	SW	1	c	29.21	-3.8	45	44	+1	S	4	o	4	51	42	—		
Stornoway ...	29.39	49	SW	6	o	29.17	-3.9	43	42	-5	W	4	o	4	53	40	0.36		
Wick ...	29.49	49	SW	3	bc	29.20	-3.8	45	43	-2	SW	4	c	2	53	43	—		
Nairn ...	29.50	49	SW	2	bc	29.18	-4.5	47	44	0	SW	3	bc	2	57	43	—		
Aberdeen...	29.61	53	SW	3	bc	29.32	-3.4	44	42	-3	S	5	o	2	51	43	0.01		
Leith ...	29.68	54	W	4	c	29.38	-3.3	47	43	-3	W	5	o	*	57	40	0.22		
Shields ...	29.77	55	SW	3	c	29.48	-3.1	50	46	-1	SWW	5	o	2	58	46	—		
Spurn Head ...	29.86	52	WSPW	5	bc	29.61	-2.3	50	49	-1	S	5	c	4	56	43	—		
York ...	29.85	54	WSPW	4	c	29.58	-2.8	50	46	0	S	4	o	*	60	46	—		
Loughborough	29.94	56	WSPW	3	c	29.72	-2.4	50	46	+1	SWW	4	o	*	61	44	—		
Ardrossan ...	29.68	50	S	4	c	29.37	-3.8	46	45	-2	SWW	5	c	4	52	44	0.13		
Malin Head ...	29.52	51	SWW	6	om	29.31	-4.3	43	42	-5	SW	4	o	4	53	40	0.28		
Mullaghmore ...	29.60	52	SW	7	c	29.40	-4.2	42	41	-7	W	6	o	4	56	40	0.30		
Belmullet ...	29.59	52	SW	7	o	29.40	-4.1	44	43	-6	WSPW	4	o	*	53	41	0.25		
Donaghadee ...	29.71	50	WSPW	4	bc	29.43	-4.0	47	45	-3	WSPW	5	bc	3	57	44	0.06		
Barrow-in-Furness	29.81	48	SWW	6	bc	29.54	-3.2	44	43	-3	SWW	5	o	*	51	42	0.13		
Liverpool (Bidston)	29.87	50	WSPW	5	o	29.62	-2.8	43	41	-8	W	4	o	3	56	41	0.05		
Holyhead ...	29.85	49	SWW	5	om	29.56	-3.4	45	44	-5	SWW	5	om	4	53	41	0.23		
Parsonstown ...	29.77	54	SW	2	o	29.52	-4.2	45	42	-4	SW	3	bc	*	53	40	0.07		
Valencia ...	29.80	52	SWW	7	om	29.58	-4.2	45	42	-7	WSPW	5	bc	6	54	42	0.06		
Roche's Point...	29.89	57	SW	5	c	29.60	-4.2	46	43	-4	WSPW	4	bc	4	54	44	0.10		
Pembroke ...	29.97	47	SWW	6	c	29.66	-3.7	45	45	-3	WSPW	6	o	5	50	44	0.10		
Scilly ...	30.06	51	SW	5	c	29.74	-4.0	51	49	-1	SWW	6	o	6	57	48	—		
Prawle Point ...	30.10	49	WSPW	5	bc	29.82	-3.1	50	48	+1	SWW	6	bc	4	52	45	—		
Jersey ...	30.18	53	W	3	bc	29.96	-2.6	52	48	0	SW	5	bc	4	56	47	—		
Hurst Castle ...	30.08	50	WSPW	6	bc	29.87	-2.5	48	47	0	SW	6	bc	4	58	47	—		
Dungeness ...	30.03	48	SW	6	c	29.95	-1.9	48	46	+1	SW	6	c	4	52	45	—		
London ...	30.02	56	W	3	bc	29.86	-2.3	50	47	-1	S	4	c	*	60	44	—		
Oxford ...	30.01	48	SW	3	bc	29.80	-2.5	50	46	+1	SWW	4	o	*	58	46	—		
Cambridge ...	29.97	58	SW	3	bc	29.78	-2.5	52	48	+1	S	3	c	*	62	42	—		
Yarmouth ...	29.92	56	W	4	bc	29.81	-2.1	51	49	0	SW	5	bc	3	60	42	—		
Cuxhaven ...	29.94	44	W	3	o	29.90	-1.6	46	45	0	SW	3	f	*	52	43	—		
Berlin ...	29.99	56	SW	2	o	29.99	-1.2	51	48	+1	WSPW	5	c	*	61	45	—		
Wiesbaden ...	*	*	*	*	*	30.08	-1.8	54	50	+4	SW	2	c	*	68	45	—		
Munich ...	30.17	52	SW	1	bc	30.15	-1.9	54	46	+6	W	4	bc	*	63	43	—		
FRANCE & NETHERLANDS.																			
The Helder ...	29.96	46	SW	2	c	29.88	-2.0	45	44	0	SW	3	bc	3	48	45	—		
Brussels ...	30.00	*	*	*	*	30.00	-1.7	51	47	-4	SW	2	c	*	64	43	—		
Cape Gris Nez...	30.18	57	W	2	o	30.09	-1.8	48	47	-3	SW	2	o	*	67	42	—		
Brest ...	30.19	52	WSPW	1	bc	30.06	-2.2	52	49	+1	WSPW	6	c	5	53	43	—		
Lorient ...	30.27	52	SW	3	bc	30.02	-2.5	50	48	0	SW	3	o	2	53	48	—		
Rochefort ...	30.28	56	WSPW	3	bc	30.17	-1.8	51	49	+3	S	3	o	2	59	43	0.08		
Belfort ...	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*		
Lyons ...	30.22	63	E	1	bc	30.19	-1.6	51	47	+2	SWW	2	bc	*	68	45	—		
Nice ...	30.28	54	SW	2	bc	30.22	-0.7	51	48	-3	SW	2	bc	1	63	48	—		
Perpignan ...	30.25	63	SE	2	bc	30.21	-1.3	53	51	-2	NE	2	bc	*	73	43	—		
Biarritz ...	30.28	56	W	3	bc	30.17	-1.7	54	51	+2	W	3	o	1	63	50	—		
Corunna ...	*	*	*	*	*	30.23	-1.4	53	50	-2	SW	4	o	3	61	48	0.04		
Lisbon ...	30.30	55	NW	4	bc	30.28	-0.9	53	49	0	N	4	bc	2	66	48	—		

WEATHER CHARTS

for 8 a.m. on Sunday 21st April 1889

BAROMETER, WIND & SEA.

(Explanation of Map)

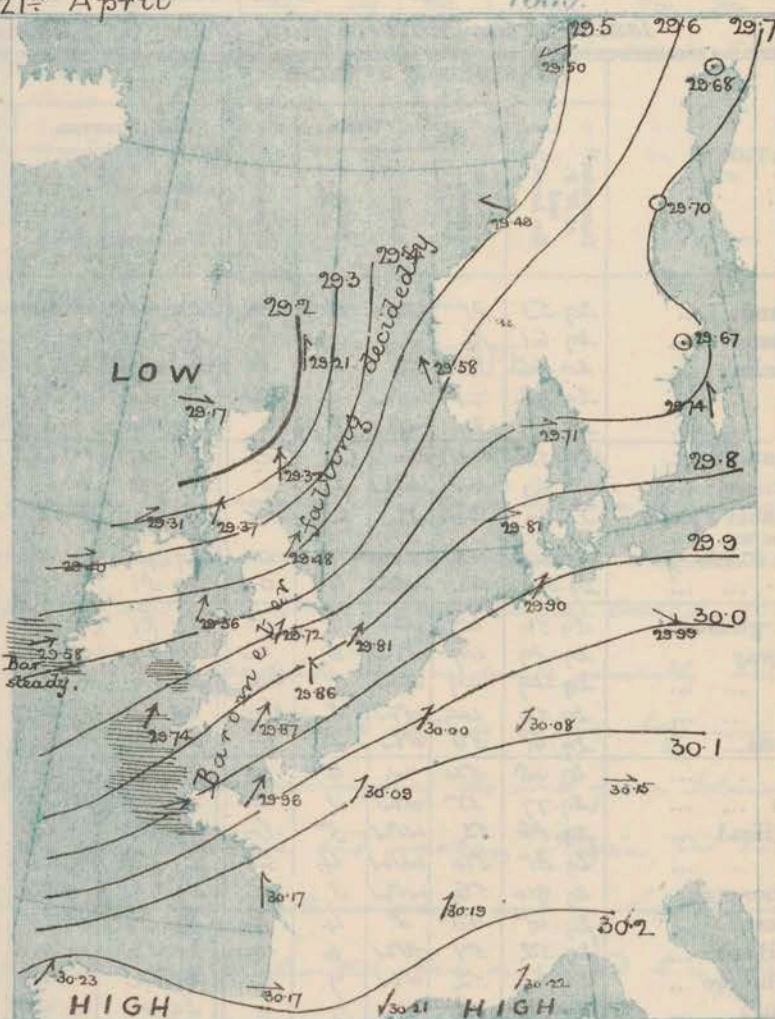
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Wind — Arrows show the prevalent winds. They fly with the wind and their barbs and feathers refer to force, thus —
 — = forces above 10; — = forces 8 to 10;
 — = forces 5 to 7; — = forces 1 to 4;
 ○ = dead calm.

Sea Disturbance — where considerable, is shown thus.

MEAN HEIGHT of the BAROMETER

at 8 a.m. for the month of April.
 During the 15 Years 1871—1885.

STATIONS.	MEAN READINGS.
Sumburgh Head	29.849
Stornoway	29.821
Wick	29.853
Nairn	29.853
Aberdeen	29.862
Leith	29.865
Shields	29.870
York	29.877
Loughborough	29.878
Ardrossan	29.867
Donaghadee	29.853
Holyhead	29.851
Liverpool	29.864
Parsonstown	29.853
Valencia	29.835
Roche's Point	29.838
Pembroke	29.844
Scilly	29.849
Jersey	29.867
Hurst Castle	29.867
Dover	29.866
LONDON	29.877
Oxford	29.882
Cambridge	29.879
Yarmouth	29.878



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.

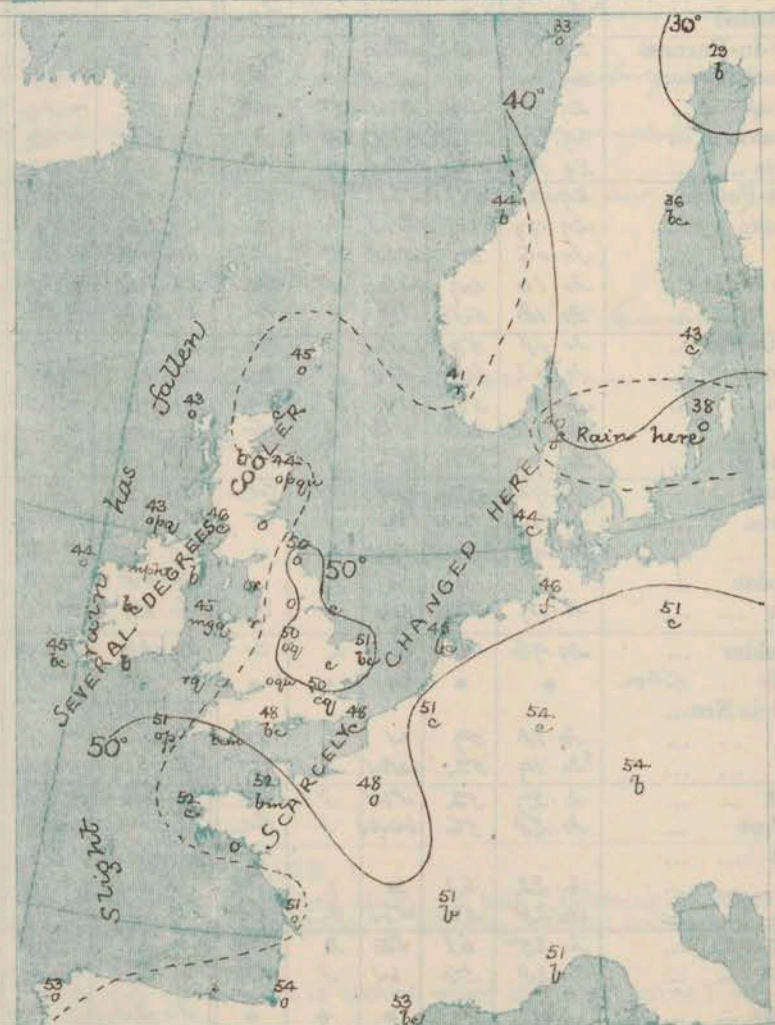
MEANS OF TEMPERATURE IN SHADE.

AND RAINFALL.

for the month of April.

STATIONS	TEMPERATURE.				RAINFALL. (Inches.)
	Daily Max	Daily Min.	at 8 a.m.		
			Dry.	Wet	
Samburgh Head	46.3	37.3	41.9	40.5	2.16
Stornoway	49.3	37.5	44.1	42.3	2.51
Wick	49.2	37.4	43.2	41.2	1.56
Nairn	51.5	37.9	43.1	40.6	1.23
Aberdeen	49.6	38.5	43.4	40.9	2.23
Leith	52.6	38.2	44.2	42.1	1.65
Shields	49.2	39.2	43.8	41.7	1.94
York	54.1	37.8	44.1	42.0	1.86
Loughborough	55.7	38.3	45.1	42.6	1.77
Ardrossan	52.1	39.9	44.6	42.2	2.23
Donaghadee	51.3	40.1	44.8	42.2	2.02
Holyhead	51.9	42.4	46.2	44.2	1.86
Liverpool	53.0	40.7	45.5	42.6	1.56
Parsonstown	55.0	38.3	45.7	43.0	2.15
Valencia	54.3	42.9	48.4	45.9	4.01
Roche's Point	54.2	42.4	47.0	44.9	3.43
Pembroke	50.3	42.1	45.8	43.6	2.10
Scilly	52.5	45.0	49.0	47.1	2.45
Jersey	54.6	43.6	49.0	46.4	2.04
Hurst Castle	52.3	41.4	45.9	44.8	1.87
Dover	51.5	42.4	47.1	44.5	1.81
LONDON	56.7	40.0	46.8	43.8	1.86
Oxford	55.1	39.3	45.0	42.7	1.79
Cambridge	56.2	37.7	45.5	43.3	1.76
Yarmouth	49.5	40.4	45.1	43.4	1.80

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



GENERAL SITUATION AT 8 A.M.

PRESSURE

Highest 30.2 ins. and upwards, over Spain and the south of France.
 Lowest 29.2 ins. and less, in a depression lying over the northwest of Scotland.
 Gradients rather steep over our Islands and their immediate neighbourhood, but slight elsewhere.
 Barometer falling generally, - most on our north coasts, but steady at Patensie.

TEMPERATURE

Highest 54° at Biarritz, 53° at Perpignan and Lisbon, 52° at Cambridge, Jersey and Brest, and 51° at Scilly, Falmouth, Brussels, Rochefort, Lyons and Nice.
 Lowest 39° at Haparanda, 33° at Bodø, 36° at Hernösand, 38° at Stockholm, 40° at Lænder and Skagen, 41° at Skudesnæs and 43° at Stockholm & Stenö.
 The highest maxima registered over our Islands yesterday were 61° at Aberdeen and Loughborough, and 65° at York.

WIND

SW over our Islands, France and the eastern shores of the North Sea, moderate to fresh in force generally, but strong on the Channel coast.
 SE or E in the west of Norway, calm in Sweden, moderate in Germany.
 On our extreme West coasts it appears to be veering to the W.

WEATHER

Showery over the United Kingdom, but fair at most of the Continental stations.
 Foggy at Skagen and Cuxhaven; dull in the west of France.
 Since yesterday morning rain has fallen at nearly all our western, and at several of our northern stations.

SEA

Rough on our southwest coasts, but moderate to smooth elsewhere.

PROBABLE CHANGES IN SYSTEM NOW PREVALENT

FORECASTS

for the 24 hours ending at NOON on 22ND APRIL 1889.

DISTRICTS.

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

FORECASTS.

NONE ISSUED

DISTRICTS.

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

WARNINGS

FORECASTS.

NONE ISSUED

The South cone has been hoisted this morning in districts 2, 3, and 5, and is now flying on all coasts.

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

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

YESTERDAY'S 2 P.M. REPORTS.

	Bar.	Dry.	Wet.	Wind.	Wes.	Sea.		Bar.	Dry.	Wet.	Wind.	Wes.	Sea.
Skudesnes	29.67	41	40	SE 4	2	4	Holyhead	29.93	52	49	SEW 5	cmq	4
Sumburgh Head	29.54	49	46	SW 4	bc	3	Valencia	29.91	54	51	SEW 7	om	6
Stornoway	29.51	51	50	SW 6	o	5	Scilly	30.13	55	53	WSEW 5	bc	5
Aberdeen	29.63	58	48	WSEW 3	bc	2	Jersey	30.22	58	50	W 3	bc	3
Shields	29.78	57	50	SW 3	c	2	Dungeness	30.07	51	49	SW 6	m	5
Ardrossan	29.73	51	49	S 4	c	3	London	30.04	58	52	WSEW 3	c	*
Malin Head	29.67	51	48	SW 5	o	4	Yarmouth	29.96	57	53	WSEW 4	c	3
Mullaghmore	29.72	54	49	SW 6	cm	4	Rochefort	30.34	56	53	WNW 2	c	1
Belmullet	29.70	52	51	SW 7	o	*							

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

The reports for yesterday morning showed that pressure was highest, 30.5 ins. and upwards, over Algeria and high, 30.4 ins. and upwards, over central Spain and the southwestern parts of the Mediterranean. The lowest readings 29.5 ins. and less, were found in a large and irregularly formed depression lying over northern Russia, but another disturbance with similarly low readings was apparently advancing towards the north of our Islands from the westward. The wind was moderate or fresh from the SW^W over the whole of western Europe, but over Sweden, Denmark and Germany it drew into W, while on the eastern and southern shores of the Baltic, and also over Austria and the southern parts of Italy and Russia it was NW. Over southern Europe variable breezes were reported, but at the Algerian stations the wind was SE⁴ or S⁴. ~~The weather was fine in all the more southern countries, the wind was SE⁴ or S⁴.~~ The weather was fine in all the more southern countries as well as in Sweden, Finland and the southwest of our Islands. Elsewhere, however, the sky was cloudy or overcast, with passing showers in many parts of the United Kingdom, fog in Denmark and north Germany, and snow at Kiew. Temperature had changed slightly and irregularly in our Islands, but risen at most of the continental stations; readings ranged from between 55° and 60° at the Mediterranean stations, and from a little above 50° in the east and extreme south west of our Islands to 35° or a little below over Lapland and the northern and central parts of Russia. The highest individual readings were 60° at Barcelona, 59° at San Fernando and La Cella, 58° at Brindisi, Palma and Algiers, 57° at Barcelona and Leghorn, and 56 at Gran; the lowest were 33° at St Petersburg, Moscow and Kiew, 34° at Bodo and Kermanshah, 35° at Haparanda and Uleaborg, 36° at Hangö, Wisby and Kharkov, 37° at Archangel, Lemberg and Odessa, and 38° at Helsingfors.

In the course of the day the barometer fell briskly in the west and north of our Islands, and the wind increased to a strong breeze or moderate gale from the SW on the west coasts of Ireland and Scotland. The weather, however, cleared in many parts of the United Kingdom.

EXPLANATION OF COLUMNS GIVEN ON PAGE 1.

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

* AN ASTERISK is inserted in all places for which information is not usually received.
† The evening observations are taken at 6 p.m. in France and our Islands with the exception of Oxford, where they are taken at 8 p.m. In Sweden and Denmark, the observations are taken at 8 p.m. (Christiania time).

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

DAILY WEATHER REPORT.

for *Monday 22nd April* 1889.

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

		+ YESTERDAY EVENING.					8 A.M. TO DAY.										LAST 24 HOURS.		
STATIONS.		Barometer at 32° F. and Sea Level.	Temp. in Shade.	WIND.		Weather.	BAROMETER.		SHADE TEMP.		WIND.		Weather.	Sea. 0 to 5.	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.)	Aux.		Min.	
SCANDINAVIA.	Haparanda ..	29.74	27	S	2	c	29.68	0.0	33.1	29	+2	SSE	2	bc	*	41	21	—	
	Hernösand ...	29.68	32	S	0	bc	29.61	-0.09	36	35	0	SSE	2	o	*	48	25	—	
	Stockholm ...	29.76	40	S	0	bc	29.73	-0.06	46	43	+3	S	2	o	*	50	32	—	
	Wisby ...	29.83	41	S	4	c	29.84	+0.01	49	44	+11	S	4	bc	*	?	34	—	
	Bodo ...	29.42	39	ENE	2	o	29.28	-0.14	44	39	+11	S	0	o	1	?	?	0.04	
	Christiansund...	29.28	47	SE	2	o	29.27	-0.01	43	41	-1	WNW	2	o	3	52	41	—	
	Skudesnæs ...	29.47	42	S	8	n	29.43	-0.04	41	40	0	S	6	f	4	43	39	0.39	
	Christiansfjord (Faroer)	29.66	41	SEW	2	m	29.49	-0.16	40	40	0	SEW	5	n	3	41	39	—	
	Skagen (V. Søw)	29.69	43	WNW	2	o	29.57	-0.14	43	42	+3	W	5	n	4	46	39	0.04	
	Faro ...	29.72	46	S	4	bc	29.72	0.0	47	45	+2	SW	4	bc	*	48	43	—	
BRITISH ISLANDS.	Sumburgh Head	29.18	45	SW	2	bc	29.29	+0.11	40	39	-5	NW	4	o	4	49	38	0.11	
	Stornoway ...	29.21	48	W	4	bc	29.39	+0.18	40	39	-3	NW	4	o	4	50	34	0.30	
	Wick ...	29.18	43	SW	2	c	29.48	+0.30	38	37	-7	NW	4	op	3	51	37	0.07	
	Nairn ...	29.27	47	W	2	c	29.54	+0.27	40	37	-7	W	4	bc	2	53	39	0.01	
	Aberdeen...	29.30	47	SW	2	bc	29.54	+0.24	44	39	0	WNW	6	bc	4	54	37	0.02	
	Leith ...	29.38	49	W	3	c	29.59	+0.21	46	42	-1	W	1	c	*	54	40	0.01	
	Shields ...	29.44	49	SW	3	c	29.58	+0.14	46	43	-4	SW	3	c	2	52	41	—	
	Spurn Head ...	29.56	45	WNW	6	n	29.70	+0.14	47	45	-3	SW	4	bc	4	53	40	0.09	
	York ...	29.51	50	SW	2	c	29.64	+0.13	46	44	-4	SW	2	bc	*	51	40	0.05	
	Loughborough	29.62	46	SW	2	c	29.74	+0.12	47	45	-3	WNW	2	bc	*	55	40	0.12	
GERMANY.	Ardrossan ...	29.39	50	SW	2	c	29.63	+0.24	46	45	0	NW	5	bc	3	52	42	0.20	
	Malin Head ...	29.37	46	W	5	op	29.71	+0.34	44	40	+1	WNW	2	bc	4	48	41	0.17	
	Mullaghmore ...	29.45	48	WNW	5	c	29.77	+0.32	45	43	+3	NW	2	bc	3	51	41	0.27	
	Belmullet ...	29.48	48	WNW	5	o	29.81	+0.33	46	44	+2	WNW	2	bc	*	50	41	0.11	
	Donaghadee ...	29.45	48	SW	4	bc	29.70	+0.25	46	43	-1	N	5	bc	3	53	41	0.06	
	Barrow-in-Furness	29.50	37	SW	5	c	29.64	+0.14	45	44	+1	SW	4	bc	*	51	42	—	
	Liverpool (Bidston)	29.53	47	WNW	4	c	29.71	+0.18	45	43	+2	W	5	bc	4	52	42	0.05	
	Holyhead ...	29.54	47	WNW	5	bc	29.73	+0.19	49	46	+4	W	4	bc	4	53	42	—	
	Parsonstown ...	29.54	45	SW	2	c	29.80	+0.26	45	42	0	NW	1	bc	*	52	37	0.13	
	Valencia ...	29.65	49	WNW	5	o	29.90	+0.25	46	43	+1	NW	1	cp	2	53	41	0.14	
FRANCE & NETHERLANDS.	Roche's Point...	29.62	49	W	4	c	29.82	+0.20	47	44	+1	WNW	4	bc	4	52	43	0.10	
	Pembroke ...	29.66	47	WNW	6	bc	29.81	+0.15	46	45	+1	WNW	5	bc	4	49	43	0.07	
	Scilly ...	29.77	50	WNW	6	c	29.86	+0.09	50	46	-1	NW	2	bc	6	52	45	0.14	
	Prawle Point ...	29.78	47	WNW	6	bc	29.87	+0.09	48	46	-2	WNW	2	bc	2	52	42	0.03	
	Jersey ...	29.87	50	WNW	5	o	29.91	+0.04	49	45	-3	WNW	4	bc	3	57	45	0.05	
	Hurst Castle ...	29.77	48	SW	7	bc	29.85	+0.08	50	48	+2	WNW	5	bc	4	53	46	0.02	
	Dungeness ...	29.79	50	SW	6	bc	29.83	+0.04	46	45	-2	SW	5	c	4	54	45	—	
	London ...	29.72	50	SW	4	bc	29.81	+0.09	49	46	-1	WNW	2	c	*	54	40	0.03	
	Oxford ...	29.75	44	SW	2	c	29.80	+0.05	47	44	-3	SW	2	bc	*	54	39	0.17	
	Cambridge ...	29.68	49	SW	2	n	29.79	+0.11	49	46	-3	SW	2	bc	*	53	35	0.09	
PENINSULA.	Yarmouth ...	29.66	54	SW	6	c	29.78	+0.12	47	45	-4	WNW	4	bc	3	53	39	0.02	
	Cuxhaven ...	29.84	46	SW	2	c	29.79	-0.05	49	48	+3	SW	4	c	*	54	46	—	
	Berlin ...	29.93	53	WNW	1	c	29.91	-0.02	51	49	0	SW	2	c	*	61	46	—	
	Wiesbaden ...	*	*	*	*	*	29.97	-0.11	53	50	-1	SW	1	bc	*	63	50	—	
	Munich ...	30.01	54	NE	2	o	30.06	+0.05	52	49	-2	SE	1	bc	*	63	45	0.04	
	The Helder ...	29.76	48	SW	4	c	29.82	+0.06	46	45	+1	SW	2	bc	3	54	45	—	
	Brussels ...	*	*	*	*	*	29.91	+0.09	49	47	-2	SW	2	c	*	60	48	0.08	
	Cape Gris Nez...	?	49	SW	4	bc	?	?	47	45	-2	SW	2	bc	3	54	45	—	
	Paris ...	29.95	58	SW	4	c	29.96	-0.01	47	45	-1	SW	2	o	*	64	46	—	
	Brest ...	29.97	51	SW	2	o	29.97	0.0	47	45	-5	SW	2	o	4	57	41	—	
FRANCE & NETHERLANDS.	Lorient ...	29.94	52	SW	2	c	29.94	0.0	47	45	-3	NW	1	o	3	53	45	0.04	
	Rocheport ...	30.09	54	WNW	4	c	30.00	-0.09	50	?	-1	WNW	3	c	2	57	43	—	
	Belfort ...	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	
	Lyons ...	30.04	60	SW	4	n	30.01	-0.03	50	45	-1	SE	1	o	*	70	48	0.04	
	Nice ...	30.17	54	SW	1	c	30.12	-0.05	50	44	-1	E	2	bc	1	61	43	—	
	Perpignan ...	30.07	57	NE	2	c	30.02	-0.05	56	52	+3	NE	2	o	*	62	50	—	
PENINSULA.	Biarritz ...	30.12	53	NW	2	o	29.95	-0.17	52	50	-2	E	2	o	2	67	50	—	
	Corunna ...	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	
PENINSULA.	Lisbon ...	30.17	53	NW	2	c	30.04	-0.13	57	49	-2	WNW	2	n	2	64	50	0.08	

WEATHER CHARTS

for 8 a.m. on Monday, 22nd April.

1889.

BAROMETER, WIND & SEA.

(Explanation of Map)

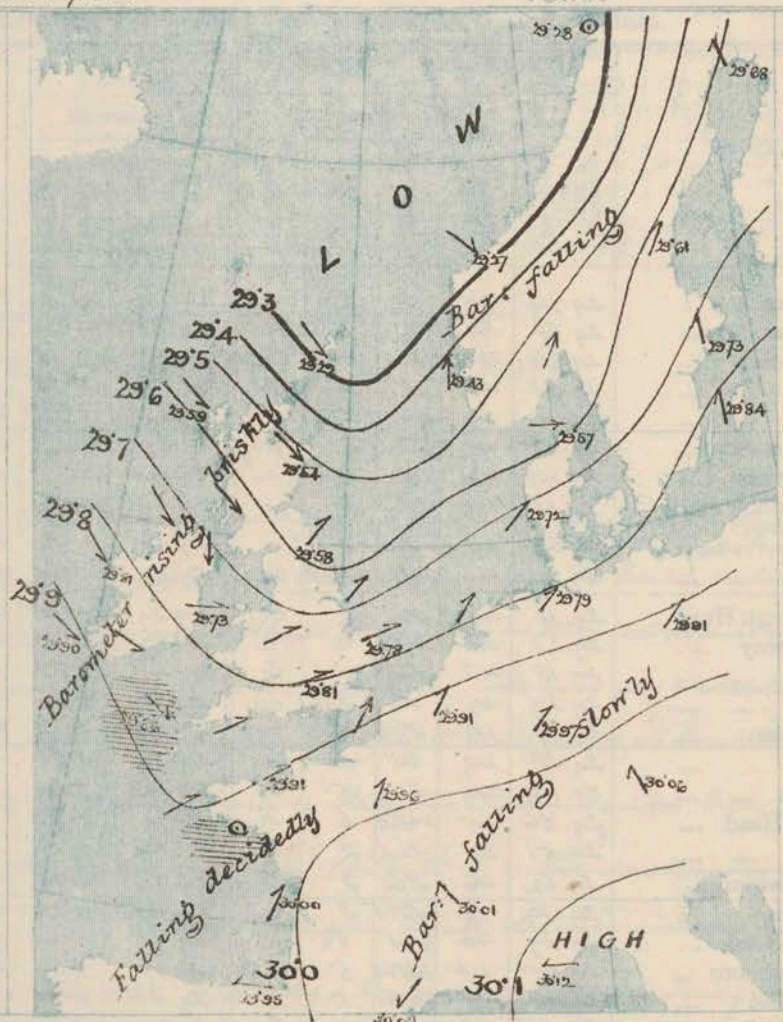
Barometer — Isobars are drawn for each tenth of an inch. Changes since previous morning are stated in words.
Wind — Arrows show the prevalent winds. They fly with the wind and their barbs and feathers refer to force, thus —
 — force above 10; — force 8 to 10;
 — force 5 to 10; — force 1 to 4;
 ○ = dead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

Sea Disturbance — where considerable, is shown thus.

MEAN HEIGHT of the BAROMETER

at 8 a.m. for the month of April.
 During the 15 Years 1871-1885.

STATIONS.	MEAN READINGS.
Sumburgh Head	29.849
Stornoway	29.831
Wick	29.853
Nairn	29.853
Aberdeen	29.862
Leith	29.866
Shields	29.870
York	29.877
Loughborough	29.878
Ardrossan	29.867
Donaghadee	29.858
Holyhead	29.861
Liverpool	29.864
Parsonstown	29.859
Valencia	29.836
Roche's Point	29.838
Pembroke	29.844
Scilly	29.849
Jersey	29.862
Hurst Castle	29.867
Dover	29.866
LONDON	29.877
Oxford	29.882
Cambridge	29.879
Yarmouth	29.876



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.

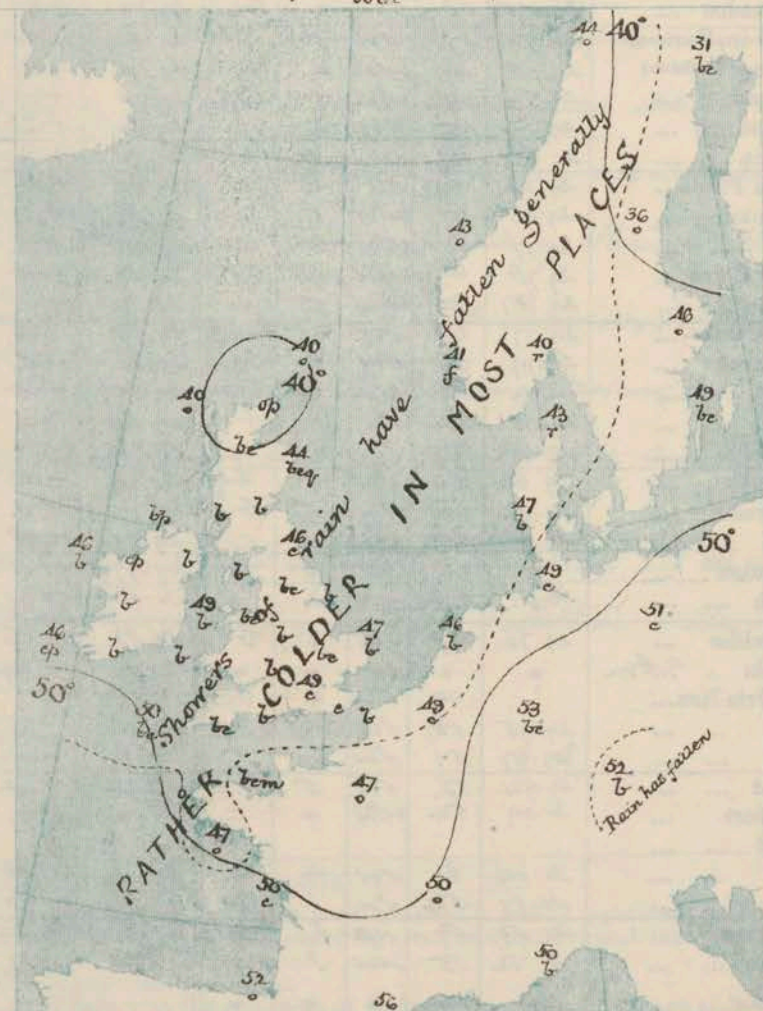
MEANS OF TEMPERATURE IN SHADE.

AND RAINFALL.

for the month of April.

STATIONS	TEMPERATURE.				RAINFALL. (Inches)
	Daily Max.	Daily Min.	Dry at 8 a.m.	Wet.	
Sumburgh Head	46.3	37.3	41.9	40.5	2.16
Stornoway	49.3	37.6	44.1	42.3	2.51
Wick	49.2	37.4	43.2	41.2	1.56
Nairn	51.5	37.9	43.1	40.6	1.23
Aberdeen	49.6	38.5	43.4	40.9	2.23
Leith	52.6	38.2	44.2	42.1	1.66
Shields	49.2	39.2	43.8	41.7	1.94
York	54.1	37.8	44.1	42.0	1.80
Loughborough	55.7	38.3	45.1	43.0	1.77
Ardrossan	52.1	39.9	44.6	42.2	2.22
Donaghadee	51.3	40.1	44.8	43.2	2.02
Holyhead	51.9	42.4	46.2	44.2	1.86
Liverpool	53.0	40.7	45.5	42.6	1.56
Parsonstown	55.0	38.3	45.7	43.0	2.15
Valencia	54.3	42.9	48.4	45.9	4.01
Roche's Point	54.2	42.4	47.0	44.9	3.43
Pembroke	50.8	42.1	45.8	43.6	2.10
Scilly	52.5	45.0	49.0	47.1	2.45
Jersey	54.6	43.6	49.0	46.4	2.04
Hurst Castle	52.3	41.4	45.9	44.6	1.87
Dover	51.5	42.4	47.1	44.5	1.51
LONDON	56.7	40.0	48.8	43.8	1.88
Oxford	55.1	39.3	45.0	42.7	1.79
Cambridge	56.2	37.7	45.5	43.3	1.76
Yarmouth	49.5	40.4	45.1	43.4	1.80

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



GENERAL SITUATION AT 8 A.M.

PRESSURE

Highest, 30.0 to 30.1 in: over the southern half of France and the southwest of Spain—29.9 in: and more off our extreme southwest coast.
Lowest, 29.3 in: and less, off the Shetland Islands and the west of Norway.
Gradient moderate. Barometer falling both in the northwest of Norway and over France, Spain, and the Bay of Biscay, rising fast on our W. and N.W. coast.

TEMPERATURE

Highest, 56° at Perpignan, 52° at Biarritz, 51° at Lisbon and Berlin, 50° at Nice, Lyons and Bells.
Lowest, 31° at Haparanda, 36° at Hornsund, 38° at Niek, 40° at Lumburg, the Hornsund, and Kani.
It is below 50° throughout Ireland, England, and the northern parts of France.

WIND

SW: over the south and east of our Islands and the North Sea—S: in Sweden and the south of Norway.
NW in Ireland and Scotland (strong at Aberdeen) W: at Holyhead.
NW: at Lisbon, Variable over the Bay of Biscay and France.

WEATHER

Fine and bright in most parts of our Islands, showery in the west of Ireland and northeast of Scotland—not settled generally.
Rain fell generally yesterday, but amounts were small.

SEA

Rough on parts of our southernmost coast, moderate to slight elsewhere.

PROBABLE CHANGES IN SYSTEM NOW PREVALENT

As the barometer is rising so quickly in the northwest the wind will probably increase considerably in the northeast of Scotland, and that coast has consequently been warned. N: winds are likely to spread all over England today, and after a few showers the night seems likely to be bright and cold.

FORECASTS

for the 24 hours ending at NOON on 23rd April 1889.

DISTRICTS.	FORECASTS.	DISTRICTS.	FORECASTS.
0 SCOTLAND NORTH	NW ² winds, strong to a gale; squally, cold showers.	6 SCOTLAND WEST	NW ² winds, moderate or fresh; some showers. Cold tonight.
1 SCOTLAND EAST		7 ENGLAND N.W.	
2 ENGLAND N.E.	W ² to NW ² winds, unsettled, cold showers then finer.	8 ENGLAND S.W.	NW ² to N ² winds, moderate or light; fair. Very cold tonight.
3 ENGLAND EAST		9 IRELAND NORTH	
4 MIDLAND COUNTIES	SW ² to NW ² winds, showery to fair, colder.	10 IRELAND SOUTH	
5 ENGLAND SOUTH			

WARNINGS

The NORTH CONE has been hoisted this morning in district 0 and part of 1.

The S. CONE has been lowered in districts 2, 3 and 5.

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

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

YESTERDAY'S 2 P.M. REPORTS.

	Bar.	Dry.	Wet.	Wind.	Wes.	Sea.		Bar.	Dry.	Wet.	Wind.	Wes.	Sea.
Skudesnaes ...							Holyhead ...	29.53	46	44	SW 5	bc fog	4
Sumburgh Head ...							Valencia ...						
Stornoway ...	29.20	49	47	W 4	0	4	Scilly ...						
Aberdeen ...							Jersey ...	29.90	53	50	SW 5	bc	4
Shields ...							Dungeness ...	29.94	52	49	SW 6	bc	5
Ardrossan ...							London ...	29.75	54		SW 5	og	
Malin Head ...	29.35	43	42	SW 5	0	4	Yarmouth ...						
Mullaghmore ...							Rocheport ...						
Balmullet ...	29.43	48	47	W 3	C	*							

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

Continental Information not yet received.

SUMMARY OF CHANGES IN THE WEATHER OVER THE BRITISH ISLANDS AND THEIR NEIGHBOURHOOD FROM THE 14TH APRIL TO THE 20TH APRIL 1889.

The past week has witnessed a gradual but decided change from the cold, unsettled conditions which have recently prevailed to brighter and more genial weather, and at the close of the period temperature over Great Britain was high for the time of year.

During the first three days of the week barometrical pressure was highest in an anticyclone lying over or to the west of Ireland, and lowest in a large depression which travelled SE^{ward} across the northern parts of Scandinavia to Russia. Another large though shallow disturbance was, however, lying over Spain, so that while N^W or N^W winds prevailed over all the more northern parts of the United Kingdom, NE^{ward} winds were reported in the south. The weather was generally cold and showery, but the amount of rainfall was everywhere slight, and in some districts there was none at all.

On Wednesday 17th the high pressure system in the west began to extend E^{ward} and SE^{ward} over England and France, and the wind over our Islands backed first to the W^{ard} and afterwards to the SW^{ard} while temperature rose steadily. In the extreme W. and N. conditions were affected by some depressions which shifted the Irish and Scotch coasts on their way to the Scandinavian peninsula, and the wind in those regions was therefore strong from the SW^{ard} with cloudy weather and occasional falls of rain. Over all the more Sth and Eth parts of the Kingdom, however, light or moderate breezes from the W^{ard} or SW^{ard} were experienced with fine, bright weather and a high temperature. On Thursday 18th the thermometer rose to a maximum of 63° at Cambridge and 64° at York, Loughborough & Oxford, while on the following day it reached 65° in London. At the close of the week the depressions in the far west and north appeared to be advancing nearer to our Islands, and squally, showery weather was extending to most 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 23rd April 1889.
Issued by the Meteorological Office, 63 Victoria Street, London. R. H. SCOTT, Secretary.

STATIONS.	+ YESTERDAY EVENING.					3 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 2.)	SHADE TEMP.		Amount of Rainfall.	
			Dir.	Force. (0 to 12.)		Reading at 32° F. and Sea Level.	Difference from 8 a.m. yesterday.	Dry.	Wet.	Difference from 8 a.m. yesterday.	Dir.	Force. (0 to 12.)			Max.	Min.		
SCANDINAVIA.																		
Haparanda ..	29.46	36	SE	2	2	29.48	-20	36	35	+5	SW	4	C	*	39	21	0.16	
Hernösand ...	29.47	40	SEW	2	2	29.51	-10	39	36	+3	S	2	C	*	39	28	—	
Stockholm ...	29.69	39	2	0	2	29.71	-02	46	41	0	SW	4	C	*	52	36	—	
Wisby ...	29.81	41	S	4	2	29.85	+01	45	42	-4	SEW	2	C	*	57	37	—	
Bodö ...	29.22	38	2	0	2	29.24	+06	37	35	-7	W	2	C	1	45	34	0.12	
Christiansund...	29.22	45	SW	3	0	29.54	+27	37	36	-6	W	4	C	5	46	34	0.35	
Skudesnaes ...	29.59	41	W	2	0	29.68	+25	40	38	-1	SE	2	C	4	41	36	—	
Christiania Fjord	29.58	41	SEW	6	m	29.64	+15	40	37	0	W	6	C	4	43	37	—	
(Farder)																		
Skagen (The Scaw)	29.60	41	W	3	0	29.73	+16	41	39	-2	W	3	C	1	52	37	0.04	
Fanö ...	29.79	41	SW	2	2	29.78	+06	43	43	-4	SW	2	C	*	48	41	—	
BRITISH ISLANDS.																		
Sumburgh Head	29.53	37	NW	3	0	29.50	+21	41	38	+1	SE	3	C	4	42	37	0.02	
Stornoway ...	29.65	42	NW	4	2	29.22	-37	43	42	+3	SW	3	C	3	44	36	0.08	
Wick ...	29.62	43	NW	2	2	29.33	-15	43	41	+5	S	6	C	5	45	32	0.03	
Nairn ...	29.60	45	W	2	2	29.31	+23	44	40	+4	SW	5	C	2	47	37	0.02	
Aberdeen...	29.69	42	W	3	C	29.43	-11	43	41	-1	SE	6	C	4	48	38	—	
Leith ...	29.70	43	W	1	2	29.40	-19	46	41	0	SW	5	C	3	53	37	0.01	
Shields ...	29.72	44	S	2	2	29.53	-03	43	41	-3	S	4	C	2	48	36	0.24	
Spurn Head ...	29.75	45	NE	2	C	29.68	-02	48	45	+1	SW	4	C	4	53	37	—	
York ...	29.70	53	W	1	2	29.62	-02	46	43	0	S	2	C	*	57	35	—	
Loughborough	29.80	48	W	3	C	29.73	-01	45	43	-2	SW	3	C	*	57	35	0.06	
ARDROSSAN.																		
Ardrossan ...	29.78	48	W	2	2	29.24	-29	43	43	-3	SW	3	C	3	50	41	0.20	
Malin Head ...	29.72	45	SE	3	2	29.32	-39	42	40	-2	W	5	C	4	48	40	0.14	
Mullaghmore ...	29.76	48	W	2	C	29.44	-33	43	40	-2	W	6	C	5	50	40	0.40	
Belmullet ...	29.75	48	W	3	0	29.47	-34	44	43	-2	W	6	C	*	51	42	0.12	
Donaghadee ...	29.80	44	SW	3	2	29.40	-30	45	44	-1	W	5	C	2	50	43	0.07	
GERMANY.																		
Barrow-in-Furness	29.77	46	SW	3	2	29.56	-08	45	43	0	SE	6	C	*	50	43	—	
Liverpool (Bidston)	29.81	47	W	3	2	29.58	-13	46	42	+1	SW	3	C	4	50	40	—	
Holyhead ...	29.82	47	W	2	2	29.53	-20	45	45	-4	SW	5	C	4	57	44	0.08	
Parsonstown ...	29.81	52	NW	1	C	29.56	-24	43	41	-2	SW	2	C	*	56	40	0.06	
Valencia ...	29.87	49	SW	3	0	29.69	-21	47	44	+1	W	5	C	5	54	43	0.10	
Roche's Point...	29.85	51	W	3	2	29.64	-18	51	46	+4	W	5	C	4	53	45	0.02	
Pembroke ...	29.86	48	W	4	2	29.64	-17	46	46	0	SW	7	C	6	50	45	0.01	
Scilly ...	29.92	49	W	5	C	29.80	-06	50	48	0	W	6	C	6	52	45	—	
Prawle Point ...	29.90	49	W	4	2	29.84	-03	49	45	+1	S	5	C	4	53	40	—	
Jersey ...	29.93	52	W	3	2	29.95	+04	49	45	0	SW	4	C	3	54	42	—	
HURST CASTLE.																		
Hurst Castle ...	29.87	50	W	3	2	29.86	+01	49	47	-1	W	4	C	3	53	40	0.01	
Dungeness ...	29.84	49	SW	5	C	29.86	+02	47	45	+1	W	4	C	3	57	37	0.10	
London ...	29.84	51	W	2	2	29.83	+02	47	44	-2	SW	3	C	*	54	38	0.08	
Oxford ...	29.87	45	W	3	2	29.79	-01	46	43	-1	SW	3	C	*	58	33	0.02	
Cambridge ...	29.77	57	SW	2	2	29.79	0.0	47	44	-2	S	2	C	*	58	33	0.02	
Yarmouth ...	29.77	52	SW	3	2	29.78	0.0	48	45	+1	W	3	C	2	54	36	0.01	
Cuxhaven ...	29.85	46	SW	3	2	29.85	+06	45	44	-4	SW	2	C	*	53	43	—	
Berlin ...	29.89	56	2	0	2	29.87	-04	51	48	0	NW	3	C	*	64	48	0.08	
Wiesbaden ...	*	*	*	*	*	29.91	-06	51	48	-2	SW	1	C	*	63	46	0.04	
Munich ...	29.87	54	2	0	C	29.95	-11	51	48	-1	SE	2	C	*	64	39	0.04	
FRANCE & NETHERLANDS.																		
The Helder ...	29.88	46	SW	1	2	29.82	0.0	46	45	0	SW	1	C	2	52	41	—	
Brussels ...	*	*	*	*	*	29.92	+01	47	40	0	W	2	C	*	57	44	0.04	
Cape Gris Nez...	?	48	W	4	2	29.92	-06	45	45	-1	SW	4	C	2	54	45	—	
Paris ...	29.92	50	SW	2	2	29.97	+01	47	47	+1	W	1	C	*	60	44	0.02	
Brest ...	30.06	53	NW	3	2	29.97	+11	50	46	+3	W	5	C	5	53	39	—	
Lorient ...	29.94	52	W	4	2	30.00	+06	48	43	+1	W	3	C	3	53	45	—	
Rocheport ...	29.96	54	NW	3	2	30.05	+09	48	46	-2	N	3	C	2	63	41	—	
Belfort ...	29.94	52	W	1	C	29.93	-01	53	52	0	NW	1	C	*	64	38	0.04	
Lyons ...	29.92	56	SW	1	0	29.97	-04	50	47	0	SW	1	C	*	63	48	—	
Nice ...	30.00	54	SE	5	C	29.98	-14	48	48	-2	SE	4	C	4	63	46	0.12	
Perpignan ...	29.91	53	E	2	0	29.95	-07	52	51	-4	SE	2	C	*	61	50	0.12	
Biarritz ...	29.90	53	N	5	2	30.03	+08	52	48	0	N	5	C	4	61	48	0.43	
PENINSULA.																		
Corunna ...	*	*	*	*	*	30.13	+09	52	47	+1	NW	6	C	4	53	50	0.04	
Lisbon ...	30.05	50	NW	5	2	30.13	+09	52	47	+1	NW	6	C	4	53	50	0.04	

WEATHER CHARTS

for 8 a.m. on

Tuesday, 23rd April,

1889.

BAROMETER, WIND & SEA.

(Explanation of Map)

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

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

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

Sea Disturbance — where considerable, is shown thus.

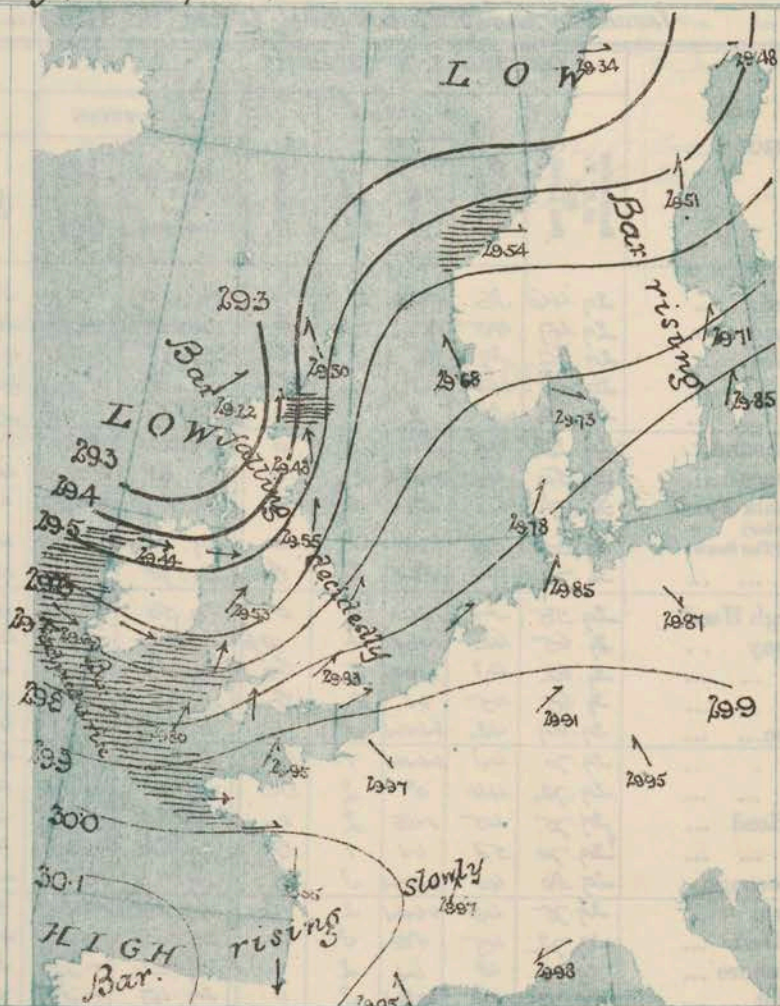
— Rough — High

MEAN HEIGHT of the BAROMETER

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

During the 15 Years 1871 — 1885.

STATIONS.	MEAN READINGS.
Sumburgh Head	29.849
Stornoway	29.821
Wick	29.853
Nairn	29.853
Aberdeen	29.862
Leith	29.865
Shields	29.870
York	29.877
Loughborough	29.878
Ardrossan	29.857
Donaghadee	29.853
Holyhead	29.851
Liverpool	29.864
Parsonstown	29.858
Valencia	29.835
Roches Point	29.838
Pembroke	29.844
Scilly	29.849
Jersey	29.867
Hurst Castle	29.867
Dover	29.866
LONDON	29.877
Oxford	29.882
Cambridge	29.879
Yarmouth	29.876



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.

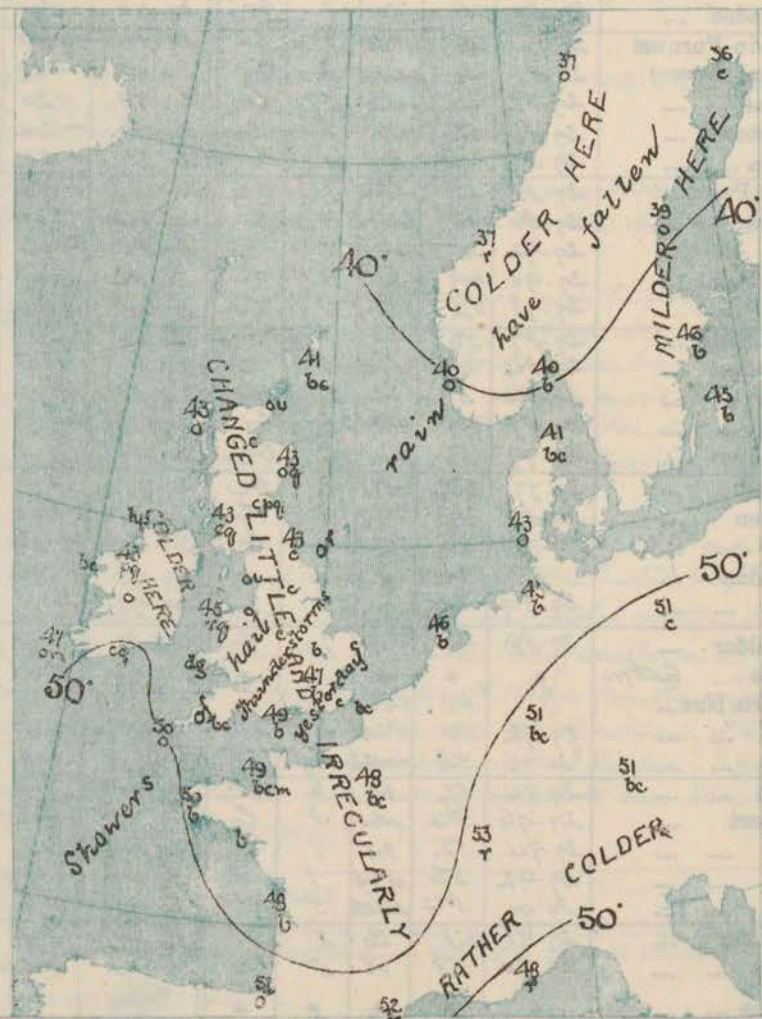
MEANS OF TEMPERATURE IN SHADE.

AND RAINFALL.

for the month of April.

STATIONS	TEMPERATURE.				RAINFALL. (Inches.)
	Daily Max.	Daily Min.	at 8 a.m.		
			Dry	Wet.	
Sumburgh Head	46.3	37.3	41.9	40.5	2.16
Stornoway	49.3	37.5	44.1	42.3	2.51
Wick	49.2	37.4	43.2	41.2	1.56
Nairn	51.5	37.9	43.1	40.6	1.23
Aberdeen	49.6	38.5	43.4	40.9	2.23
Leith	52.6	38.2	44.2	42.1	1.65
Shields	49.2	39.2	43.8	41.7	1.94
York	54.1	37.8	44.1	42.0	1.86
Loughborough	55.7	38.3	45.1	42.6	1.77
Ardrossan	52.1	39.2	44.6	43.2	2.23
Donaghadee	51.3	40.1	44.8	43.2	2.02
Holyhead	51.9	42.4	46.2	44.2	1.86
Liverpool	53.0	40.7	45.5	42.6	1.56
Parsonstown	55.0	38.3	45.7	43.0	2.15
Valencia	54.3	42.9	48.4	45.9	4.01
Roche's Point	54.2	42.4	47.0	44.9	3.43
Pembroke	50.8	42.1	45.6	43.6	2.10
Scilly	52.5	45.0	49.0	47.1	2.45
Jersey	54.6	43.6	49.0	46.4	2.04
Hurst Castle	52.3	41.4	45.9	44.6	1.87
Dover	51.5	43.4	47.1	44.5	1.81
LONDON	56.7	40.0	46.8	43.8	1.86
Oxford	55.1	39.3	45.0	42.7	1.79
Cambridge	56.2	37.7	45.5	43.3	1.76
Yarmouth	49.5	40.4	45.1	43.4	1.80

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



GENERAL SITUATION AT 8 A.M.

PRESSURE

Highest 29.9 ins. and more over eastern France and western Germany, 30.0 to 30.1 ins. over western France, the Bay of Biscay and western parts of the Spanish Peninsula.

Lowest 29.3 ins. and less in a new depression which has reached the west of Scotland from the Atlantic.

Gradients rather steep in the northwest and north. Bar falling except over the Bay of Biscay and at Valencia.

TEMPERATURE

Highest 53° at Belfort, 52° at Lisbon, Perpignan and Biarritz, 51° at the German stations, Fort Lyons and Scilly.

Lowest 36° at Haparanda, 39° at Bodø and Christiansund, 40° at Skudesnaes, 41° at Lumburgh Head.

It has been changing fitfully during past 24 hours. Frost occurred on the grass over England early this morning.

WIND

S. strong in north and east of Scotland, Wales, and west of England.

W. fresh to strong in Ireland - S.W. moderate, but gusty, over England.

S. in Sweden, S. in the west of Norway, variable over France and Germany.

WEATHER

Very changeable, fine at present in the East and South, squally and showery in the west and north, with an unsettled, windy appearance in the west of Scotland.

Rain fell generally, in showers, yesterday, hail and thunder occurred in some places, including London.

SEA

Rough on our west and southwest coasts, moderate in the north and northeast, slight elsewhere.

PROBABLE CHANGES IN SYSTEM NOW PREVALENT

The squally showery weather is likely to spread all over England during the day, and be followed by a decrease of temperature tonight, and possibly a temporary clearance of the sky.

FORECASTS

for the 24 hours ending at NOON on 24th April 1889.

DISTRICTS.

FORECASTS.

0	SCOTLAND NORTH	S ^W to W ^W winds, strong, squally, showery.
1	SCOTLAND EAST	
2	ENGLAND N.E.	
3	ENGLAND EAST	S.W. winds fresh or strong, some passing showers.
4	MIDLAND COUNTIES	
5	ENGLAND SOUTH	

DISTRICTS.

FORECASTS.

6	SCOTLAND WEST	W ^W winds, strong, squally, showery. Finer later.
7	ENGLAND N.W.	
8	ENGLAND S.W.	
9	IRELAND NORTH	
10	IRELAND SOUTH	

WARNINGS

The NORTH CONE is still flying in district 0. and part of 1.

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

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

YESTERDAY'S 2 P.M. REPORTS.

	Bar.	Dry.	Wet.	Wind.	Wes.	Sea.		Bar.	Dry.	Wet.	Wind.	Wes.	Sea.
Skudesnaes ...	29.49	41	40	S 7	o	5	Holyhead ...	29.81	51	47	WNW 2	b	2
Sumburgh Head ...	29.46	40	38	NW 4	o p	4	Valencia ...	29.87	54	48	S 2	bc	3
Stornoway ...	29.66	44	41	NW 4	c	4	Scilly ...	29.91	51	46	WNW 5	bc	5
Aberdeen ...	29.65	46	41	WNW 3	c p	3	Jersey ...	29.92	54	46	W 3	bc m	2
Shields ...	29.69	46	43	X 0	c p	2	Dungeness ...	29.88	52	48	SW 6	c	5
Ardrossan ...	29.72	50	46	W 4	b	3	London ...	29.81	54	49	WNW 3	c p	*
Malin Head ...	29.76	47	42	WNW 1	b	3	Yarmouth ...	29.77	53	50	WNW 4	bc p	3
Mullaghmore ...	29.79	50	46	W 2	b	3	Rocheport ...	29.97	58	53	W 4	c	2
Belmullet ...	29.80	50	47	WNW 3	bc	*							

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

The reports for yesterday morning show that pressure varied from between 30.0 in. and 30.2 in. over all the southern and southeastern parts of Europe and the Mediterranean, and from a little above 30.0 in. off the Portuguese coast to rather below 29.3 in. in a depression, which lay off the west of Norway. The wind was SW in the south and east of England, SW and variable over the greater part of the Continent and S over Sweden, but was NW over Portugal, Ireland, and Scotland and was blowing strongly at Aberdeen. The weather was fair, but rather changeable in the northwest, and showers of rain were reported in a few localities. Temperature had decreased over England and in daylight, but not changed much as a whole. It was below the freezing point over Northern Europe only, but was below 50° all over Ireland, England, and Scotland, and below 40° at Helsingfors. The lowest individual values were 25° at Haparanda and Uleaborg, 26° at Krasnoyarsk, 35° at Moscow, St. Petersburg and Harbin, 36° at Heringsand, 38° at Nork, and 40° at Stornoway, Sumburgh Head, and Naism. The highest were 73° at La Caba, and 71° at Algiers, 61° at Brindisi, 60° at Palermo, 59° at Sanquinar, 58° at Bilbao, 57° at Leganes, 56° at Perpignan, Leghorn and Cagliari, 54° at Porto, 51° at Berlin and 50° at Scilly. At Paris the temperature was 47° at Brussels and in London 43°.

Later in the day showers of rain and hail fell in many parts of the United Kingdom, the wind varied greatly between SW and NW and frost occurred on the ground over England at night.

General Remarks on the Weather over Europe for the 24 hours ended 8 a.m. April 12th

The reports for Sunday morning showed that pressure was highest, 30.3 in. and upwards, over Tunis, South Italy, and the adjacent parts of the Mediterranean, and high, 30.2 in. and upwards, over the whole of the Mediterranean and Southern Europe. The lowest pressures, 29.2 in. and less, were found in a depression lying over the north and northwest of Scotland, but another depression, with readings below 29.4 in., was situated in the neighbourhood of the White Sea. The wind was fresh or strong from the SWnd over our Islands, and light or moderate from the same quarter over the Netherlands, France and the north of Spain, but in the west of Norway it drew into SE. or E., while over Central Europe light W or NW winds were reported. Over Algeria and Southern Europe it was rather variable but chiefly S in direction and light in force. The weather was fine in all the more southern countries as well as in Finland and the north of Sweden, but showery in most parts of the United Kingdom, and foggy at Helsingfors and Copenhagen. Over Central and Eastern Europe the sky was cloudy or overcast. Temperature had risen a little in most of the southern and central countries, but fallen in nearly all other localities; readings ranged from 55° and upwards over the Mediterranean and a little above 50° in the south and southeast of England to a few degrees below the freezing point over Lapland and Finland. The highest individual readings were 69° at Algiers, 61° at Palma, 59° at Leghorn, 57° at Barcelona, Cagliari, Palermo, Lyons, and San Fernando, and 56° at La Caba, the lowest were 28° at Uleaborg, 29° at Haparanda, Krasnoyarsk, and Helsingfors, 32° at St. Petersburg, 33° at Porto, 34° at Archangel, 37° at Murmansk, and 38° at Khabarovsk.

In the course of the day the depression over the north and northwest of Scotland moved slowly northwards and the barometer rose a little on our western coast while the wind there veered to the Wnd. Showery weather extended to nearly all parts of Western Europe.

EXPLANATION OF COLUMNS GIVEN ON PAGE 1.

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

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

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

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

DAILY WEATHER REPORT.

for WEDNESDAY 24TH APRIL

1889.

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

STATIONS.	+ YESTERDAY EVENING.						8 A.M. TO DAY.										PAST 24 HOURS.		
	Barometer at 32° F. Sea Level.	Temp. in Shade.	WIND.		Weather.	BAROMETER.		SHADE TEMP.		WIND.		Weather.	Sea. 0 to 9.	SHADE TEMP.		Amount of Rainfall.			
			Dir.	Force. (0 to 12.)		Reading at 8 a.m. and Sea Level.	Difference from 8 a.m. yesterday.	Dry.	Wet.	Difference from 8 a.m. yesterday.	Dir.			Force. (0 to 12.)	Max.		Min.		
SCANDINAVIA.																			
Haparanda ..	29.59	35	SW	2	0	29.67	+ .19	34	32	-	2	W	2	bc	*	37	30	-	
Hernösand ...	29.44	37	Z	0	0	29.95	+ .44	39	33	-	6	Z	0	b	*	37	34	-	
Stockholm ...	29.49	40	SSW	2	0	29.93	+ .22	43	39	-	3	Z	0	b	*	54	37	-	
Wisby ...	29.86	41	SSE	4	0	29.95	+ .10	42	40	-	3	SE	2	b	*	54	36	-	
Bodo ...																			
Christiansund...																			
Skudesnaes ...	29.78	40	SE	2	0	29.79	+ .11	46	41	+	6	ENE	4	c	3	?	34	0.08	
Christiania Fjord (Færd)	29.77	40	SSW	4	0	29.88	+ .24	35	35	-	5	NNE	3	f	1	43	34	-	
Skagen (The Scaw)	29.76	41	SE	1	0	29.81	+ .08	43	40	+	2	SE	1	b	1	50	39	-	
Fanø ...	29.75	39	S	1	0	29.68	- .10	48	45	+	5	SE	4	c	*	48	39	-	
Sumburgh Head	29.51	42	SE	5	0	29.76	+ .26	43	40	+	2	ENE	3	c	5	44	39	0.01	
Stornoway ...	29.38	46	N	3	0	29.74	+ .32	45	44	+	2	N	5	o	5	49	41	0.20	
Wick ...	29.34	43	SE	6	0	29.72	+ .39	43	41	0	0	E	4	o	5	47	41	0.30	
Nairn ...	29.31	43	W	1	0	29.65	+ .34	42	40	-	2	ENE	3	a	4	50	38	0.36	
Aberdeen...	29.34	43	SE	3	0	29.59	+ .16	42	42	-	1	NE	6	oqr	5	47	37	0.14	
Leith ...	29.31	49	SW	3	0	29.55	+ .15	45	42	-	1	NNE	1	om	*	52	38	0.16	
Shields ...	29.37	50	W	1	0	29.47	- .08	44	42	+	1	N	2	b	2	51	37	0.01	
Spurn Head ...	29.43	45	SW	4	0	29.43	- .25	44	43	-	4	SE	3	c	3	49	39	0.14	
York ...	29.42	50	W	3	0	29.42	- .20	43	41	-	3	ENE	1	c	*	51	35	0.05	
Loughborough	29.48	50	W	1	0	29.41	- .32	44	43	-	1	W	2	o	*	52	40	0.23	
Ardrossan ...	29.30	45	SE	3	0	29.57	+ .23	48	45	+	5	ENE	3	bm	2	50	40	0.46	
Malin Head ...	29.31	40	NNE	4	0	29.60	+ .28	46	43	+	4	NNE	5	bpq	4	46	40	0.26	
Mullaghmore ...	29.35	42	NNW	6	0	29.65	+ .21	47	44	+	4	NNW	6	c	5	49	41	0.35	
Belmullet ...	29.42	48	NNW	8	0	29.75	+ .28	47	46	+	3	N	6	bc	*	50	43	0.34	
Donaghadee ...	29.38	46	SW	3	0	29.55	+ .15	45	43	0	0	NNE	4	b	2	52	43	0.12	
Barrow-in-Furness	29.40	48	SSW	4	0	29.42	- .14	45	43	0	0	N	2	c	*	49	41	0.20	
Liverpool (Bidston)	29.42	50	WSW	4	0	29.44	- .14	45	42	-	1	NE	2	o	3	53	41	0.16	
Holyhead ...	29.43	46	WSW	5	0	29.47	- .06	44	43	-	1	N	6	cmgq	5	52	42	0.22	
Parsonstown ...	29.47	50	SW	2	0	29.67	+ .11	45	43	+	2	NNW	1	o	*	52	37	0.15	
Valencia ...	29.70	51	WNW	6	0	29.83	+ .14	52	48	+	5	NNW	5	cqj	5	54	45	0.09	
Roche's Point...	29.59	50	NNW	5	0	29.69	+ .05	49	45	-	2	NNW	5	bc	4	52	45	0.08	
Pembroke ...	29.54	46	WSW	7	0	29.55	- .09	44	42	-	2	NNW	4	bcq	6	50	43	0.16	
Scilly ...	29.72	50	W	6	0	29.65	- .25	50	46	0	0	NNW	4	c	6	53	46	0.06	
Prawle Point ...	29.65	47	W	6	0	29.58	- .26	45	43	-	4	NNW	3	bc	3	50	40	0.29	
Jersey ...	29.76	50	W	4	0	29.62	- .23	49	45	0	0	WSW	6	bomp	4	56	45	0.21	
Hurst Castle ...	29.63	45	W	6	0	29.57	- .35	42	44	-	4	W	6	bc	4	51	42	0.21	
Dungeness ...	29.65	49	WSW	6	0	29.49	- .37	47	46	0	0	WSW	6	c	5	55	45	?	
London ...	29.57	43	S	4	0	29.45	- .38	45	43	-	2	SW	2	c	*	54	41	0.40	
Oxford ...	29.56	45	WSW	4	0	29.43	- .36	44	42	-	2	WSW	3	o	*	53	40	0.23	
Cambridge ...	29.50	48	S	1	0	29.42	- .37	46	45	-	1	S	1	o	*	57	38	0.15	
Yarmouth ...	29.55	47	SSW	6	0	29.47	- .31	47	46	-	1	SSW	4	c	3	54	40	0.11	
Cuxhaven ...	29.79	48	NNW	1	0	29.69	- .16	45	44	0	0	SSE	4	bc	*	55	42	0.10	
Berlin ...	29.86	51	SE	1	0	29.85	- .02	48	47	-	3	ESE	3	o	*	61	45	0.08	
Wiesbaden ...	*	*	*	*	*	29.78	- .13	57	49	0	0	SW	1	o	*	59	45	0.04	
Munich ...	29.92	52	Z	0	0	29.89	- .06	51	49	0	0	SE	1	o	*	61	46	0.04	
FRANCE & NETHERLANDS.																			
The Helder ...	29.69	46	S	2	0	29.56	- .26	47	45	+	1	SSW	2	c	3	52	45	0.08	
Brussels ...	29.65	*	*	*	*	29.65	- .27	47	44	-	2	SSW	5	c	*	59	44	0.12	
Cape Gris Nez...	?	49	SW	5	0	?	?	47	45	+	1	WSW	5	bc	5	52	45	0.20	
Paris ...	29.84	56	SW	3	0	29.74	- .23	47	44	-	1	SW	3	bc	*	62	44	-	
Brest ...	29.94	52	WNW	6	0	29.86	- .22	49	45	-	1	WNW	6	o	5	55	44	-	
Lorient ...	29.83	50	WSW	6	0	29.79	- .21	49	45	+	1	W	5	bc	4	54	45	0.08	
Rochefort ...	30.05	53	W	5	0	29.92	- .13	50	47	+	2	W	6	o	3	59	48	0.08	
Belfort ...	29.87	54	W	1	0	29.87	- .06	52	48	-	1	W	1	bc	*	61	46	0.04	
Lyons ...	29.93	56	S	1	0	29.91	- .06	51	45	+	1	SSW	2	b	*	62	45	-	
Nice ...	29.95	55	SW	2	0	29.89	- .09	54	51	+	6	SE	1	c	2	57	46	0.16	
Perpignan ...	29.98	55	W	3	0	29.99	+ .04	53	48	+	1	W	2	b	*	58	46	0.08	
Biarritz ...	30.10	55	NNW	3	0	30.03	- .07	53	50	+	1	WSW	4	o	3	59	45	-	
PENINSULA.																			
Corunna ...	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	
Lisbon ...	30.21	63	NNW	4	0	30.23	+ .10	54	52	+	2	NNW	4	c	2	59	50	-	

For Explanation of Columns, see p. 4.

‡ Received too late for insertion in *Charts* on p. 2

WEATHER

CHARTS

for 8 a.m. on Wednesday, 24th April.

1889

BAROMETER, WIND & SEA.

(Explanation of Map.)

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

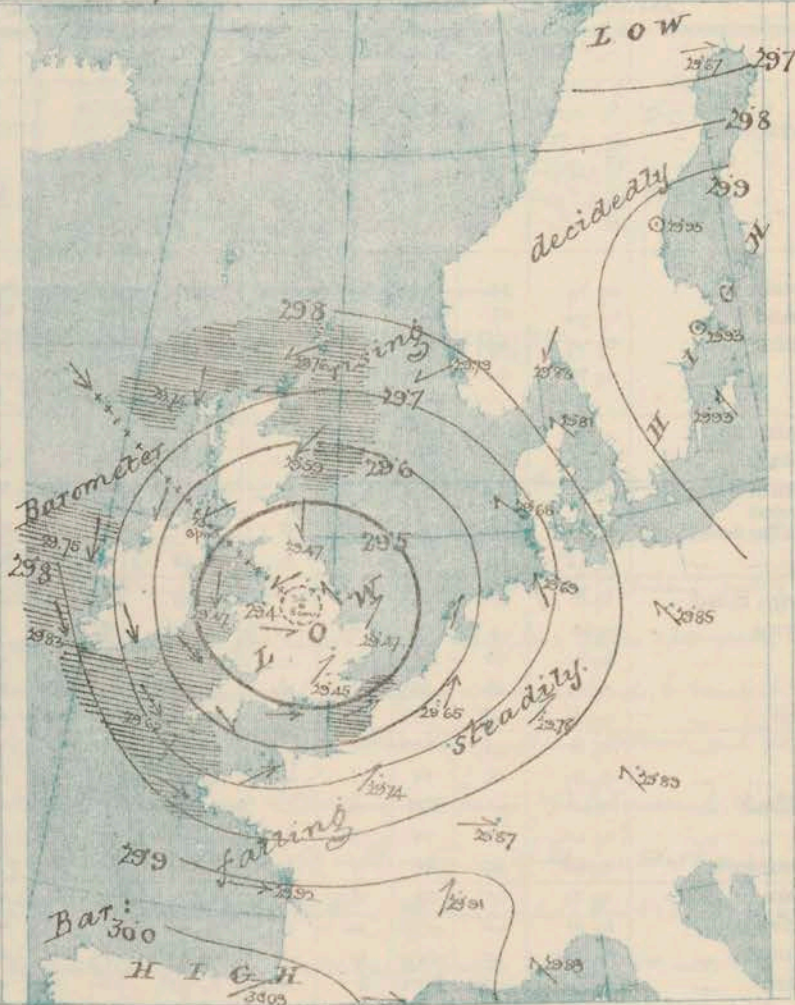
Sea Disturbance — where considerable is shown thus.

— Rough. — High.

MEAN HEIGHT of the BAROMETER

at 8 a.m. for the month of April.
 During the 15 Years 1871—1885.

STATIONS.	MEAN READINGS.
Sumburgh Head	29.849
Stornoway	29.821
Wick	29.853
Nairn	29.853
Aberdeen	29.862
Leith	29.866
Shields	29.870
York	29.877
Loughborough	29.878
Ardrossan	29.867
Donaghadee	29.853
Holyhead	29.851
Liverpool	29.864
Parsonstown	29.853
Valencia	29.835
Roche's Point	29.838
Pembroke	29.844
Scilly	29.849
Jersey	29.867
Hurst Castle	29.867
Dover	29.866
LONDON	29.877
Oxford	29.882
Cambridge	29.879
Yarmouth	29.876



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.

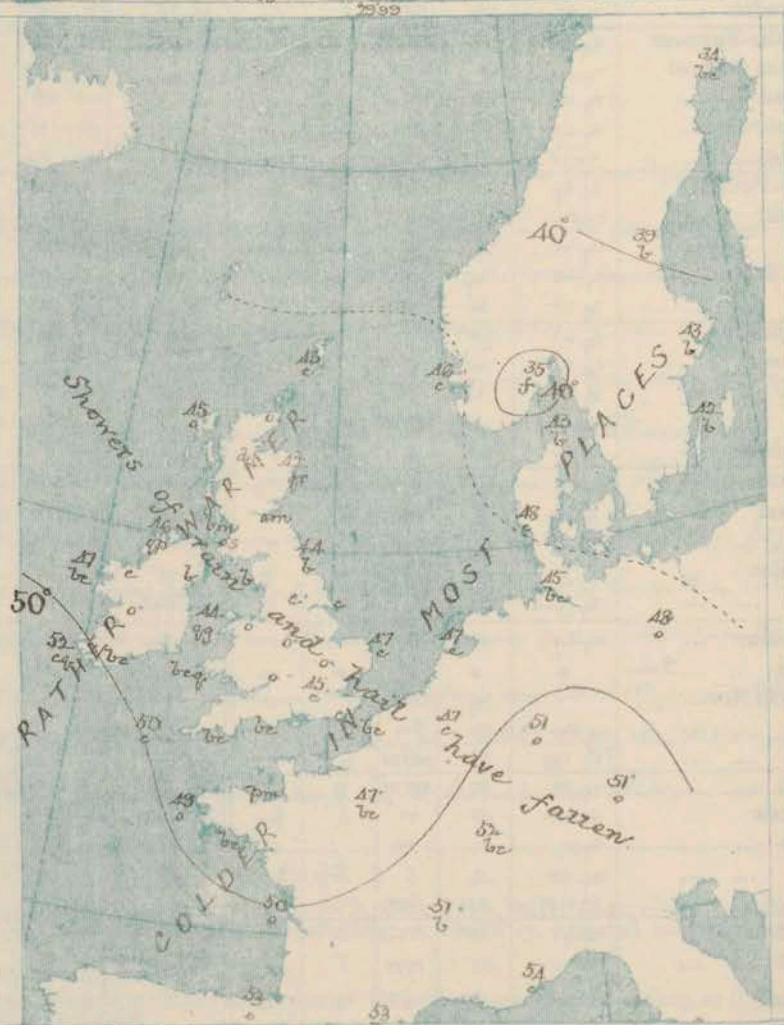
MEANS OF TEMPERATURE IN SHADE.

AND RAINFALL.

for the month of April.

STATIONS.	TEMPERATURE.				RAINFALL. (Inches).
	Daily Max.	Daily Min.	at 8 a.m.		
			Dry.	Wet.	
Sumburgh Head	46.3	37.3	41.9	40.5	2.16
Stornoway	49.3	37.5	44.1	42.3	2.51
Wick	49.2	37.4	43.2	41.2	1.56
Nairn	51.5	37.9	43.1	40.6	1.23
Aberdeen	49.6	38.5	43.4	40.9	2.23
Leith	52.6	38.2	44.2	42.1	1.65
Shields	49.2	39.2	43.8	41.7	1.94
York	54.1	37.8	44.1	42.0	1.86
Loughborough	55.7	38.3	45.1	42.6	1.77
Ardrossan	52.1	39.9	44.6	42.2	2.23
Donaghadee	51.3	40.1	44.8	43.2	2.02
Holyhead	51.9	42.4	46.2	44.2	1.86
Liverpool	53.0	40.7	45.5	42.6	1.56
Parsonstown	55.0	38.3	45.7	43.0	2.15
Valencia	54.3	42.9	48.4	45.9	4.01
Roche's Point	54.2	42.4	47.0	44.9	3.48
Pembroke	50.8	43.1	45.6	43.0	2.10
Scilly	52.5	45.0	49.0	47.1	2.45
Jersey	54.6	43.6	49.0	46.4	2.04
Hurst Castle	52.3	41.4	45.9	44.6	1.87
Dover	51.5	42.4	47.1	44.5	1.81
LONDON	56.7	40.0	46.8	43.8	1.86
Oxford	55.1	39.3	45.0	42.7	1.70
Cambridge	56.2	37.7	45.5	43.3	1.76
Yarmouth	49.5	40.4	45.1	43.4	1.80

Note — The Temperature means are for the 15 years 1871—85, the Rainfall means are mainly those for the 10 years 1866—85.



GENERAL SITUATION AT 8 A.M.

PRESSURE

Highest 30.2 inches and upwards over the S. of Portugal, 29.9 in. and upwards over the south of Sweden.
Lowest 29.41 inches at Loughborough, 29.5 in. and less in a depression lying over nearly the whole of England and the adjacent parts of the North Sea.
Gradients moderate generally.
Barometer falling in Denmark, Germany, the Netherlands, France and the S. of England, but rising quickly on our northern coasts.

TEMPERATURE

Highest 54° at Nice and Lisbon, 53° at Biarritz and Perpignan, 52° at Valencia and Belfast and 51° at Wiesbaden and Edinburgh.
Lowest 44° at Kaparanda, 45° at Fiondon, 46° at Lenoirland, 47° at Wisby, Väner and Aberdeen, and 48° at Stockholm, Thagen, Lumburg, Leod, Wick and York.

WIND

Moderate or fresh from the N.E. in Scotland and the S. of Norway.
Strong from N. or N.W. on our west and south-west coasts, and from the W. over the Channel and Bay of Biscay.
Moderate from S.W. over the S.E. of England and the east of France; S.E. in Germany and Denmark, calm over Central Sweden.

WEATHER

Cloudy and showery in many parts of Great Britain, and dull in Germany and the S.W. of France.
Fair or fine in most other localities.
Rain or hail fell yesterday over the whole of Western Europe, and thunder was heard at Loughboro' and Greenwich.

SEA

Rough or rather so on all but our east coasts.

PROBABLE CHANGES IN SYSTEM NOW PREVALENT

The depression over England will probably continue to travel slowly south-eastwards, and is likely to fill up gradually. Showery weather will probably continue over our islands for a time, with strong N.W. winds on our West S. coasts.

FORECASTS

For the 24 hours ending at NOON on 25th April 1889.

DISTRICTS.

FORECASTS.

DISTRICTS.

FORECASTS.

0	SCOTLAND NORTH	} N.E. winds, moderate or fresh; cloudy and showery to fair.
1	SCOTLAND EAST	
2	ENGLAND N.E.	} E. and N.E. winds freshening; fair generally, but some showers.
3	ENGLAND EAST	
4	MIDLAND COUNTIES	} W. to N.W. winds, fresh; fair generally, but some cold showers.
5	ENGLAND SOUTH	

6	SCOTLAND WEST	} N.E. and N. winds light; fair generally.
7	ENGLAND N.W.	
8	ENGLAND S.W.	} N.W. strong winds or gales; squally, some showers.
9	IRELAND NORTH	
10	IRELAND SOUTH	} Same as N. 7.

WARNINGS

The NORTH CONE is flying in Districts 7 & 10 and the SOUTH CONE in Districts 3 and 5, but the SIGNALS have been lowered this morning in District 6.

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

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

YESTERDAY'S 2 P.M. REPORTS.

	Bar.	Dry.	Wet.	Wind.	Wet.	Sea.		Bar.	Dry.	Wet.	Wind.	Wet.	Sea.
Skudesnaes ...	29.71	43	40	SSE 6	0	4	Holyhead ...	29.49	51	46	SW 5	bca	5
Sumburgh Head ...	29.49	43	40	SE 4	c	5	Valencia ...	29.68	53	48	W 6	cmq	6
Stornoway ...	29.28	44	45	NN 3	c	3	Scilly ...	29.74	49	46	W 6	rm	6
Aberdeen ...	29.35	43	41	SE 6	ogpq	5	Jersey ...	29.86	52	48	SSW 4	c	3
Shields ...	29.39	44	44	SSW 5	p	2	Dungeness ...	29.76	51	48	WSW 6	c	5
Ardrossan ...	29.33	50	46	W 3	bc	2	London ...	29.67	51	47	SSW 5	opq	*
Malin Head ...	29.28	42	41	S 2	0	3	Yarmouth ...	29.64	51	49	S 5	bc	4
Mullaghmore ...	29.31	48	46	WSW 6	cpq	5	Rochefort ...	30.08	55	50	NW 4	b	2
Balmullet ...	29.44	49	46	NNW 7	bcpq	*							

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

The reports for yesterday morning showed that pressure was increasing decidedly over Russia, decreasing over the British Islands and North-western Europe, and that readings varied from between 30.0 inches and 30.5 inches over Poland and Southern Russia, and from between 30.0 inches and 30.1 inches over Spain, the west of France and Bay of Biscay, to rather below 29.5 inches both in the west of Lapland and off our north-west coast, and to rather below 29.9 inches over the eastern half of the Mediterranean. The wind was light and very variable over Central and Eastern Europe, but had become moderate to strong from between South and West in the British Islands, and was Easterly in the south of France, North-easterly over Spain. Weather was very changeable and showery in Norway and the British Islands, fair or fine elsewhere, except in the south of France, where it was dull and rainy. Temperature had risen in Sweden, and was below the freezing point in the extreme north of Russia only. In Austria it had risen to above 50°. The lowest values were 29° at Archangel, 36° at Kaparanda, 37° in the NW. of Norway, and at Helsingfors, 40° in the S. of Norway, 41° at the Shaw, and Sumburgh Head, & 42° at Malin Head. The highest were 64° at Algiers, 63° at Brindisi and Cagliari, 62° at Sfax, 60° at Tangier and Malta, and 59° at Lescia, Naples and Palermo.

In the course of the day the depression to the north-west of our Islands moved south-eastwards and a considerable increase of wind took place on our coasts, — from NW. in the west and from W. or SW. in the south and south-east. Heavy showers fell in all parts of the Kingdom, and thunder was heard at some of the English stations.

EXPLANATION OF COLUMNS GIVEN ON PAGE 1.

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

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

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

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

DAILY WEATHER REPORT.

for *Thursday, 25th April, 1889.*
Issued by the Meteorological Office, 63 Victoria Street, London. R. H. SCOTT, Secretary.

STATIONS.	+ YESTERDAY EVENING.						8 A.M. TO DAY.										PAST 24 HOURS.		
	Barometer at 32° F. and Sea Level.	Temp. in Shade.	WIND.		Weather.	Barometer. Reading at 32° F. and Sea Level.	Difference from 8 a.m. yesterday.	SHADE TEMP.			WIND.		Weather.	Sea. (0 to 9.)	SHADE TEMP.		Amount of Rainfall.		
			Dir.	Force. (0 to 12.)				Dry.	Wet.	Difference from 8 a.m. yesterday.	Dir.	Force. (0 to 12.)			Max.	Min.			
SCANDINAVIA.																			
Haparanda ..	29.95	32	SW	2	b	30.17	+ 50	37	34	+ 3	2	2	c	*	43	25	-		
Hernösand ...	30.15	33	W	0	b	30.34	+ 39	35	32	- 4	2	0	bc	*	50	25	-		
Stockholm ...	30.09	33	SE	2	b	30.19	+ 26	44	39	+ 1	NE	2	b	*	57	?	-		
Wisby ...	30.05	37	S	4	o	30.07	+ 12	46	40	+ 4	E	4	c	*	48	32	-		
Bodö ...	30.08	35	W	2	c	30.27	+ 43	36	33	+ 2	W	0	c	1	36	30	-		
Christiansund...	30.07	39	ESE	6	b	30.11	+ 19	39	37	0	E	2	h	3	41	32	-		
Skudesnaes ...	29.90	46	ESE	2	o	29.94	+ 15	46	43	0	N	4	r	4	43	?	-		
Christiania Fjord (Færder)	29.93	45	ESE	3	o	30.01	+ 13	43	41	+ 8	NNE	5	o	1	45	?	-		
Skagen (The Scaw)	29.84	45	E	1	c	29.89	+ 08	44	43	+ 1	SE	2	r	1	52	43	0.51		
Fanö ...	29.70	47	E	4	c	29.74	+ 06	44	44	- 4	ESE	2	o	*	54	?	0.16		
BRITISH ISLANDS.																			
Sumburgh Head	29.98	41	ESE	3	c	30.06	+ 30	43	38	0	NE	4	b	6	46	39	-		
Stornoway ...	29.98	46	E	5	c	30.06	+ 32	44	42	- 1	E	4	c	4	48	37	0.02		
Wick ...	29.95	42	E	6	o	30.04	+ 32	43	40	0	NE	3	bc	2	44	39	0.01		
Nairn ...	29.88	43	ESE	5	o	30.06	+ 41	42	40	0	ESE	1	c	2	44	39	0.15		
Aberdeen ...	29.78	43	NNE	4	o	30.01	+ 42	42	40	0	N	4	og	5	43	40	0.39		
Leith ...	29.74	41	NE	5	r	29.98	+ 43	43	41	- 2	NE	3	o	*	45	38	0.34		
Shields ...	29.63	43	W	0	c	29.89	+ 42	43	42	- 1	NNE	2	o	2	49	40	0.05		
Spurn Head ...	29.56	44	NE	3	o	29.82	+ 39	43	42	- 1	NNE	6	o	4	48	41	0.06		
York ...	? 29.55	48	NE	1	o	? 29.84	+ 42	43	42	0	NNE	3	o	*	58	40	0.19		
Loughborough	29.52	49	NNE	1	c	29.82	+ 41	43	42	- 1	NNE	4	og	*	55	41	0.15		
GERMANY.																			
Ardsanan ...	29.73	49	N	5	bc	30.00	+ 43	48	44	0	NE	1	o	1	52	43	-		
Malin Head ...	29.84	46	N	5	b	30.02	+ 42	46	44	0	E	2	b	3	48	43	-		
Mullaghmore ...	29.92	49	N	6	c	30.04	+ 39	48	44	+ 1	NNE	2	bc	2	51	42	-		
Belmullet ...	29.98	49	N	6	c	30.06	+ 31	48	45	+ 1	NE	1	b	*	? 51	41	0.01		
Donaghadee ...	29.76	49	NE	5	c	30.00	+ 45	45	42	0	NE	6	bc	4	53	44	0.01		
FRANCE & NETHERLANDS.																			
Barrow-in-Farress	29.60	47	N	4	c	29.88	+ 46	44	42	- 1	N	3	b	*	54	40	-		
Liverpool (Bidston)	29.61	46	NNE	5	c	29.90	+ 46	46	42	+ 1	NNE	2	bc	3	51	41	0.11		
Holyhead ...	29.69	46	N	5	c	29.94	+ 47	45	43	+ 1	NNE	4	c	4	49	44	0.01		
Parsonstown ...	29.85	52	NW	2	c	30.03	+ 36	45	43	0	NW	2	b	*	53	37	-		
Valencia ...	29.99	51	N	5	c	30.09	+ 26	51	46	- 1	N	2	bc	3	54	44	0.02		
Roche's Point...	29.83	52	N	5	b	30.02	+ 33	47	42	- 2	N	4	b	4	54	43	-		
Pembroke ...	29.71	48	N	6	b	29.92	+ 37	46	45	+ 2	N	5	c	3	51	43	0.02		
Scilly ...	29.76	49	NW	6	c	29.94	+ 29	48	45	- 2	NW	6	c	5	52	45	-		
Prawle Point ...	29.66	47	NW	6	b	29.84	+ 26	50	45	+ 5	NNE	4	b	3	52	40	0.02		
Jersey ...	29.65	49	NNE	5	bc	29.78	+ 16	47	44	- 2	NNE	4	cp	3	53	43	0.22		
Hurst Castle ...	29.55	47	NNE	4	c	29.75	+ 24	44	44	- 1	N	3	o	4	51	42	0.10		
Dungeness ...	29.50	47	NNE	4	c	29.66	+ 17	43	43	- 4	N	2	c	2	53	41	?		
London ...	29.52	47	SW	2	cm	29.71	+ 26	44	43	- 1	N	2	or	*	52	42	0.44		
Oxford ...	29.60	44	NW	3	c	29.78	+ 35	44	42	0	N	4	oprh	*	51	41	0.23		
Cambridge ...	29.51	45	N	1	c	29.75	+ 33	46	45	0	N	2	r	*	53	39	0.24		
Yarmouth ...	29.51	45	S	3	c	29.70	+ 23	45	44	- 2	NNE	4	cg	4	48	42	0.14		
Cuxhaven ...	29.69	48	E	2	r	29.69	00	48	47	+ 3	S	1	c	*	55	?	0.14		
Berlin ...	29.75	57	SE	1	c	29.71	- 14	54	52	+ 6	SE	1	c	*	63	48	0.04		
Wiesbaden ...	*	*	*	*	*	29.73	- 05	48	45	- 3	SW	2	c	*	55	43	-		
Munich ...	29.76	50	NW	3	o	29.78	- 11	36	36	- 15	SW	5	r	*	59	34	0.35		
PENINSULA.																			
The Helder ...	29.62	46	E	1	b	29.68	+ 12	47	46	0	ESE	1	c	1	52	45	0.04		
Brussels 9AM.	*	*	*	*	*	?	?	45	43	- 2	N	2	o	2	52	41	0.12		
Cape Gris Nez...	?	47	NNE	3	c	?	?	45	43	- 2	N	2	o	2	?	?	0.04		
Paris ...	29.63	47	SW	2	bc	29.68	- 06	47	44	0	SW	2	bc	6	55	41	0.08		
Brest ...	*	51	NNE	7	o	?	?	49	45	0	NNE	6	bc	6	55	41	0.08		
Lorient ...	29.80	50	NNE	5	bc	29.86	+ 07	48	46	- 1	NW	4	bc	4	54	45	0.24		
Rocheport ...	29.88	50	NNE	6	r	29.92	00	50	45	0	NW	5	bc	2	57	41	0.32		
Belfort ...	29.72	53	W	1	o	29.76	- 11	48	46	- 4	W	2	o	*	60	38	0.16		
Lyons ...	29.78	56	NNE	3	o	29.82	- 09	46	41	- 5	NNE	2	c	*	66	39	-		
Nice ...	29.82	55	SW	2	c	29.64	- 25	52	42	- 2	NW	5	bc	2	64	46	0.04		
Perpignan ...	29.91	58	W	4	o	29.91	- 08	52	45	- 1	NW	5	b	*	70	48	-		
Biarritz ...	? 30.02	54	NNE	6	o	30.02	- 01	52	48	- 1	NNE	7	o	5	61	46	0.12		
Corunna ...	*	*	*	*	*	?	?	55	51	+ 1	NNE	2	b	2	61	50	-		
Lisbon ...	30.23	54	NW	3	c	30.22	- 01	55	51	+ 1	NNE	2	b	2	61	50	-		

For Explanation of Columns, see p. 4.

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

WEATHER CHARTS

for 8 a.m. on

Thursday, 25th April

1889.

BAROMETER, WIND & SEA.

(Explanation of Map)

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

Sea Disturbance — where considerable, is shown thus.

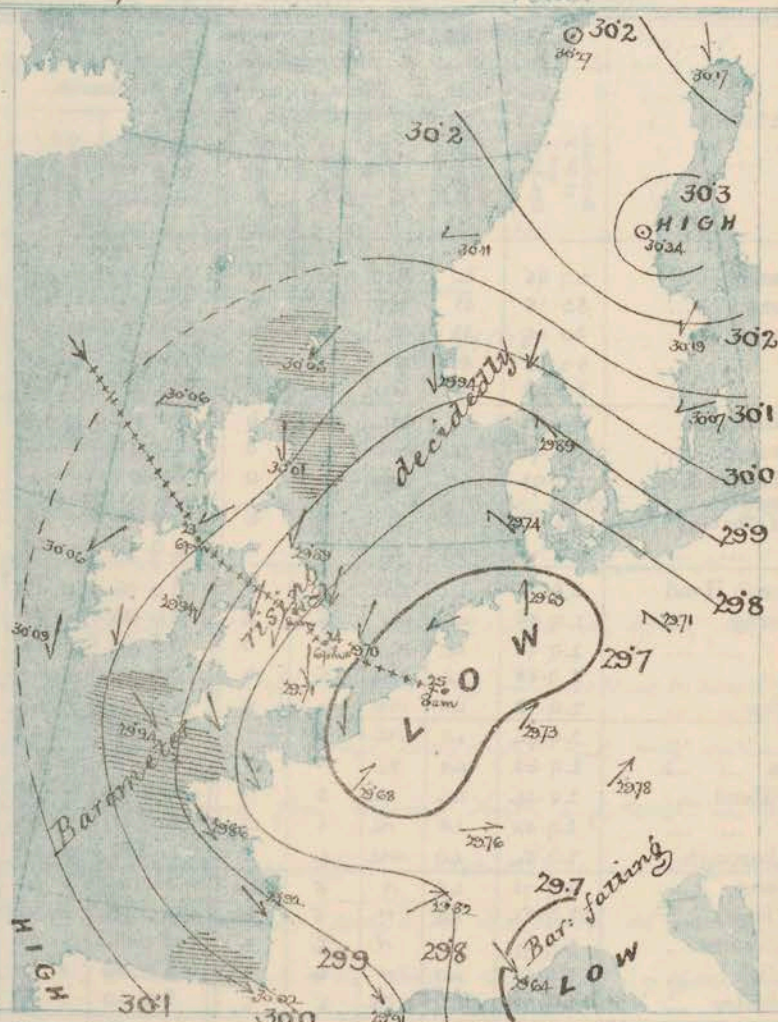
— Rough — High.

MEAN HEIGHT of the BAROMETER

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

During the 15 Years 1871—1885.

STATIONS.	MEAN READINGS.
	in.
Sumburgh Head	29.849
Stornoway	29.831
Wick	29.853
Nairn	29.853
Aberdeen	29.862
Leith	29.865
Shields	29.870
York	29.877
Loughborough	29.878
Ardrossan	29.857
Donaghadee	29.853
Holyhead	29.851
Liverpool	29.864
Parsonstown	29.853
Valencia	29.835
Roche's Point	29.835
Pembroke	29.844
Scilly	29.849
Jersey	29.867
Hurst Castle	29.867
Dover	29.866
LONDON	29.877
Oxford	29.882
Cambridge	29.879
Yarmouth	29.876



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.

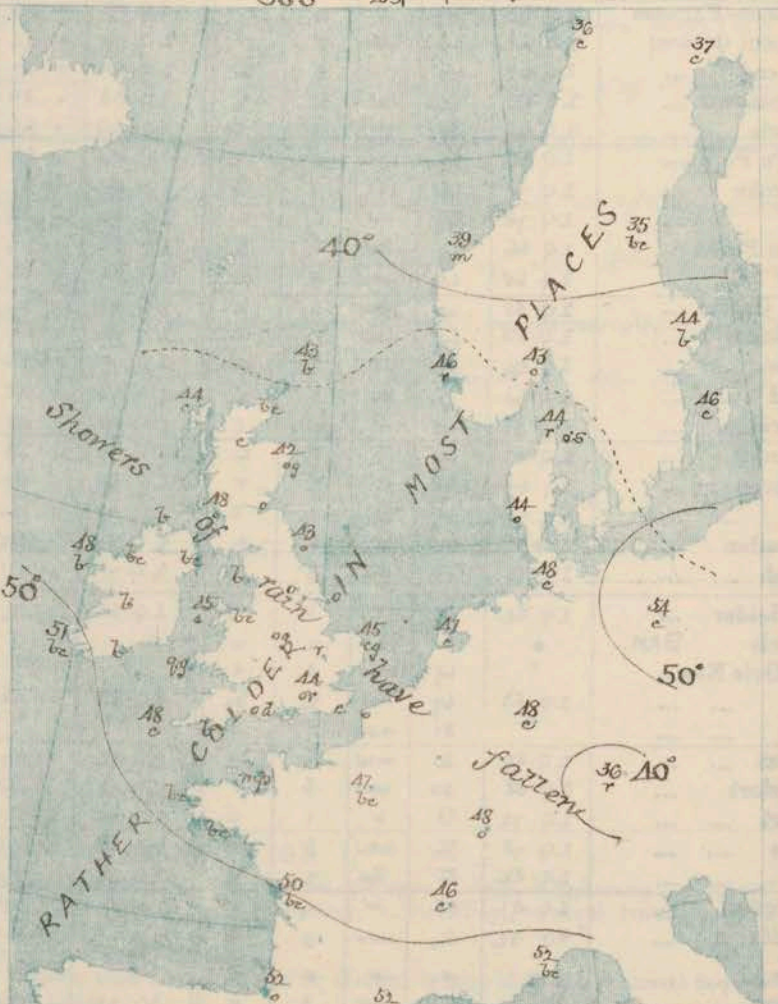
MEANS OF TEMPERATURE IN SHADE.

AND RAINFALL.

for the month of April.

STATIONS	TEMPERATURE.				RAINFALL. (Inches.)
	Daily Max.	Daily Min.	at 8 a.m.		
			Dry.	Wet.	
Sumburgh Head	48.3	37.3	41.9	40.5	2.18
Stornoway.	49.3	37.5	44.1	42.3	2.51
Wick	49.2	37.4	43.2	41.2	1.56
Nairn.	51.5	37.9	43.1	40.6	1.23
Aberdeen	49.6	38.5	43.4	40.9	2.23
Leith	53.6	38.2	44.2	42.1	1.65
Shields.	49.2	39.2	43.8	41.7	1.94
York	54.1	37.8	44.1	42.0	1.66
Loughborough	55.7	38.3	45.1	42.6	1.77
Ardrossan	52.1	39.9	44.6	43.2	2.23
Donaghadee	51.8	40.1	44.8	43.2	2.02
Holyhead	51.9	42.4	46.2	44.2	1.86
Liverpool	53.0	40.7	45.5	42.6	1.56
Parsonstown	55.0	38.8	45.7	43.0	2.15
Valencia	54.3	42.9	48.4	45.9	4.01
Roche's Point	54.2	42.4	47.0	44.9	3.43
Pembroke	50.8	42.1	45.6	43.6	2.10
Scilly	52.5	45.0	49.0	47.1	2.45
Jersey	54.6	43.6	49.0	46.4	2.04
Hurst Castle	52.8	41.4	45.9	44.6	1.87
Dover	51.5	42.4	47.1	44.5	1.81
LONDON	50.7	40.0	46.8	43.8	1.88
Oxford	55.1	39.3	45.0	42.7	1.79
Cambridge	56.2	37.7	45.5	43.3	1.76
Yarmouth	49.5	40.4	45.1	43.4	1.80

NOTE — The Temperature means are for the 15 years 1871—85, the Rainfall means are mainly those for the 10 years 1866—85.



GENERAL SITUATION AT 8 A.M.

PRESSURE

Highest, 30.0 ins. to 30.3 ins. over Scandinavia — 30.0 ins. to 30.2 ins. over Spanish Peninsula.
Lowest, 29.7 ins. and less, in a depression lying over Belgium and the Netherlands — 29.6 ins. and less, over the Gulf of Genoa.
Gradients moderate over our islands and the south of France, slight elsewhere.
Barometer rising generally — quickly in the west and north.

TEMPERATURE

Highest, 55° at Lisbon, 54° at Berlin, 52° at Biarritz, Perpignan and Nice, 51° at Valencia, 50° at Rochefort, 48° at Dublin.
Lowest, 35° at Harisund, 36° at Munich, 37° at Haparanda, 39° at Christiansund.
It is low generally in our islands.

WIND

Light to moderate from NE. on our northern coasts, from N. in the south of Ireland.
Moderate to fresh N. over England and the Channel, NW over Bay of Biscay.
Strong to a gale from NW. in the southwest and south of France. Light W. in the east of France. SW to SE over Germany and Denmark.

WEATHER

Fine in Scotland and the north and west of Ireland.
Cloudy over England, with rain at times over the southern counties and in the Channel.
Rain fell in most places yesterday, hail in several parts of England.

SEA

Moderate on nearly all coasts, rather rough at a few isolated stations

PROBABLE CHANGES IN SYSTEM NOW PREVALENT

As the depression in the southeast passes off, it will probably fill up completely, and the weather become dry but cold all over England. Frost is likely to occur at the inland stations tonight.

FORECASTS

for the 24 hours ending at NOON on 26th APRIL 1889.

DISTRICTS.

FORECASTS.

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

NE^{ly} to E^{ly} winds, moderate or light; cold, weather improving.

NE^{ly} winds, moderate to light; some cold showers then finer. Frost tonight.

DISTRICTS.

FORECASTS.

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

Wind falling light and becoming variable, fair as a whole. Very cold at night.

WARNINGS

The NORTH CONE has been lowered in districts 0 to 7. 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 rise 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 rise towards S. or S.W., the South Cone is hoisted in preference to the North Cone.

YESTERDAY'S 2 P.M. REPORTS

	Bar.	Dry.	Wet.	Wind.	Wes.	Sea.		Bar.	Dry.	Wet.	Wind.	Wes.	Sea.
Skudesnaes ...	29.87	49	43	E.N.E. 4	0	3	Holyhead ...	29.64	49	46	N 5	6	4
Samburgh Head ...	29.92	44	41	E.N.E. 3	c	5	Valencia ...	29.93	52	47	N.W. 5	c p q m	5
Stornoway ...	29.90	48	48	N.E. 5	c	5	Scilly ...	29.75	52	48	N.W. 7	c	6
Aberdeen ...	29.70	43	42	N.E. 7	o r q g	6	Jersey ...	29.65	52	47	N.W. 6	6	4
Shields ...	29.55	44	44	Z. 0	r	2	Dungeness ...	29.51	49	46	N.W. 5	c	4
Ardrossan ...	29.63	51	46	N 6	b c	3	London ...	29.49	45	43	W 3	o r	*
Malin Head ...	29.78	48	45	N.E. 6	6	5	Yarmouth ...	29.48	46	45	S 1	p	3
Mullaghmore ...	29.84	49	45	N.W. 6	c	5	Rochefort ...	29.89	54	49	W 6	0	3
Belmullet ...	29.91	52	49	N 6	c	*							

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

The reports for yesterday morning showed that pressure was highest, 30.3 in: and upwards, over Central Russia, but high, 30.2 in: and upwards, over the southwest of the Iberian Peninsula. The lowest readings, 29.5 in: and less, were found in a well marked depression, the centre of which lay over the English Midlands, but a shallower system, with readings below 29.7 in: lay over Eastern Lapland, and a third disturbance with similar readings between the coast of Sicily and Tunis, while a fourth depression, with readings below 29.9 in: was found over Iceland. With these conditions the wind varied greatly in different localities. Over North Western Europe a well defined cyclonic circulation was shown round the English depression, so that while strong N.E. winds prevailed in Scotland, and strong N. or N.W. winds on our western coasts, fresh W. breezes were reported over the Bay of Biscay, and moderate S.E. breezes on the shores of the North Sea. In Spain and Algeria the wind was chiefly N.W., and in Sardinia and Sicily S.E., but over Austria and Russia it was light and very variable. The weather was fine in Sweden, Finland, and Denmark, and also over the greater part of Southern Europe, but cloudy elsewhere, with showers in many parts of the United Kingdom, and rain at Oran and La Calle. Temperature had fallen considerably over Algeria, and slightly over England and Central Europe, but risen elsewhere; readings ranged from 60° and upwards, over the Central and Eastern parts of the Mediterranean, and a little above 50° over Austria, Spain, the southern parts of France and Germany, and the extreme southwest of our Islands to very little above the freezing point in the north of Scandinavia. The highest individual readings were 66° at Palermo, 63° at Naples and Malta, 61° at Cagliari and Sfax, 60° at Oran, 59° at Legna and Nemours, 58° at Trieste and Brindisi, and 57° at Lghorn and Longuenais; the lowest were 34° at ^{Stango} Rodø, and Haparanda, 35° at Tander, 37° at Archangel, Uleaborg and Kuopio, 39° at Helsingfors and Christianund, 41° at Higa and New Fahrwasser, and 42° at St. Petersburg, Mity, Memel, Kain and Aberdeen.

In the course of the day the depression over England travelled slowly southwards and partially filled up, while a considerable increase of pressure took place over Northern Europe. The weather over England remained very showery and unsettled, and a thick high fog passed over London during the afternoon.

EXPLANATION OF COLUMNS GIVEN ON PAGE 1.

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

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

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

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

DAILY WEATHER REPORT.

for Friday, 26th April, 1889.

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

Issued by the Meteorological Office, 53 Victoria Street, London, W.1. A.H. 3001, 1, Saturday.																			
STATIONS	+ YESTERDAY EVENING.						8 A.M. TO DAY.										PAST 24 HOURS.		
	Barometer at 32° F. and Sea Level.	Temp. in Shade.	WIND.		Weather.	Reading at 32° F. and Sea Level.	Difference from 8 a.m. yesterday.	SHADE TEMP.		Difference from 8 a.m. yesterday.	WIND.		Weather.	Sea (0 to 9.)	SHADE TEMP.		Amount of Rainfall.		
			Dir.	Force (0 to 12.)				Dry.	Wet.		Dir.	Force (0 to 12.)			Max.	Min.			
SCANDINAVIA.																			
Haparanda ...	30.38	30	Z	0	b	30.49	+ .32	33	32	- 4	Z	0	b	*	39	21	-		
Hornsund ...	30.40	32	Z	0	b	30.49	+ .15	34	32	- 1	Z	0	b	*	52	23	-		
Stokholm ...	30.26	38	ENE	4	b	30.31	+ .12	43	37	- 1	E	4	b	*	50	30	-		
Wibby ...	30.12	43	E	6	b	30.15	+ .08	47	41	+ 1	ESE	6	b	*	52	32	-		
Bodo ...	30.25	36	ENE	2	b	30.23	- .04	42	38	+ 6	ENE	4	b	2	?	32	-		
Christiansund...	30.07	46	E	1	b	30.07	- .04	48	45	+ 9	ESE	3	c	2	48	?	-		
Skudsmoes ...	30.03	45	E	4	o	30.02	- .08	44	42	- 2	ENE	4	r	3	50	43	0.24		
Christiania Fjord (Fjorden)	30.12	41	N	4	o	30.13	+ .12	50	39	- 3	NNE	5	r	2	45	39	0.35		
Skagen (The Skaw)	29.97	44	E	5	o	29.99	+ .10	41	39	- 3	E	3	o	3	45	39	0.59		
Faeroe ...	29.81	45	NE	4	o	29.82	+ .08	48	47	+ 4	ENE	2	c	+	52	?	0.04		
BRITISH ISLANDS.																			
Stornoway Head	30.02	43	ENE	2	bc	29.98	- .08	43	42	0	SE	2	o	3	45	37	-		
Stornoway ...	29.97	47	E	3	b	29.96	- .30	48	47	+ 4	S	5	c	4	48	36	-		
Wick ...	30.03	42	E	1	b	29.86	- .18	45	43	+ 2	SE	3	o	2	49	38	-		
Nairn ...	30.00	48	E	1	b	29.85	- .21	40	38	- 2	Z	0	b	1	49	33	-		
Armagh ...	30.01	44	N	3	b	29.93	- .08	42	40	0	SSW	1	cm	3	47	35	-		
Lough ...	30.00	43	SE	2	bc	29.93	- .05	47	43	+ 4	SE	3	bc	*	48	35	0.01		
Shields ...	29.95	44	N	2	o	29.94	+ .05	43	42	0	Z	0	o	2	46	40	0.02		
Sparrow Head ...	29.89	45	N	5	c	29.97	+ .15	45	44	+ 2	W	2	bc	3	46	42	0.02		
Yell ...	29.91	47	N	2	o	29.94	+ .10	45	43	+ 2	W	1	b	*	53	41	-		
Loughborough ...	29.93	49	NNE	1	o	30.01	+ .19	46	43	+ 3	SE	1	bmw	*	52	36	-		
Donaghadee ...	29.98	49	WSW	1	cm	29.87	- .13	48	46	0	SE	3	bc	2	53	37	-		
Malin Head ...	29.96	46	SSE	3	bc	29.70	- .32	46	44	0	S	4	ogr	1	49	44	-		
Malinbegmore ...	29.93	50	Z	0	o m	29.69	- .35	47	44	- 1	SE	6	gpd	4	56	45	-		
Donaghadee ...	29.98	50	W	2	o	29.66	- .40	49	49	+ 1	SW	4	or	*	53	45	0.09		
Donaghadee ...	30.01	51	NNE	3	bc	29.88	- .12	46	45	+ 1	SE	4	c	3	53	43	-		
Harbour in-Furness	29.95	50	NE	3	b	29.96	+ .08	42	41	- 2	ESE	4	om	+	55	38	-		
Liverpool (Midston)	29.96	48	WNW	2	b	29.96	+ .06	48	44	+ 2	SSE	1	b	2	52	36	-		
Holyhead ...	30.00	46	N	1	b	29.93	- .01	48	45	+ 3	S	2	bw	2	49	38	-		
Portsmouth ...	30.01	53	Z	0	o	29.78	- .25	45	44	0	SE	2	o	*	55	43	0.04		
Valencia ...	30.03	50	SW	2	cm	29.82	- .27	50	49	- 1	NW	5	om	5	56	46	0.32		
Rock Point ...	30.04	51	WSW	3	c	29.81	- .21	49	49	+ 2	SSW	5	r	4	54	46	0.20		
Penrith ...	30.01	47	NW	4	b	29.96	+ .04	48	47	+ 2	S	4	ogr	3	51	44	-		
Scilly ...	30.05	49	NW	4	b	29.96	+ .02	49	48	+ 1	S	5	r	5	51	45	0.07		
Stawley Point ...	29.99	52	NW	4	bc	30.04	+ .20	47	45	- 3	S	1	c	3	57	36	-		
Jersey ...	29.97	51	WNW	4	b	30.10	+ .32	49	46	+ 2	W	3	cm	3	52	42	-		
Harbour Castle ...	29.96	50	NNE	3	c	30.06	+ .31	45	44	+ 1	WNW	2	m	2	52	37	0.02		
Dunfermline ...	29.84	48	NNE	2	c	30.04	+ .38	46	44	+ 3	Z	0	c	2	51	35	0.05		
London ...	29.93	47	N	2	c	30.03	+ .32	45	43	+ 1	SW	1	b	*	52	35	0.01		
Oxford ...	29.98	43	NW	1	c	30.03	+ .25	40	40	- 4	Z	0	bf	*	49	32	-		
Cambridge ...	29.93	47	N	1	b	30.03	+ .28	45	43	- 1	Z	0	b	*	50	34	0.03		
Yarmouth ...	29.84	44	N	3	c	29.98	+ .28	44	43	- 1	WNW	2	cm	3	47	39	0.02		
Guxhaven ...	29.73	48	NE	2	r	29.76	+ .07	48	47	0	NE	3	r	*	54	46	0.44		
Berlin ...	29.68	60	Z	0	o	29.78	+ .07	59	55	+ 5	SE	1	c	*	64	54	0.04		
Wiesbaden ...	29.80	38	W	3	r	29.91	+ .18	46	43	- 2	NW	4	o	*	55	33	-		
Munich ...	29.80	38	W	3	r	29.87	+ .09	37	36	+ 1	W	5	r	*	41	36	0.39		
FRANCE & NETHERLANDS.																			
The Helder ...	29.82	45	N	2	o	29.95	+ .27	41	40	- 6	NW	2	o	3	52	41	-		
Bombay ...	?	?	?	?	?	30.03	+ .37	43	42	- 2	WNW	3	o	*	54	42	0.04		
Cape ...	?	45	N	5	o	?	?	44	42	- 1	NW	3	m	3	52	43	0.05		
Paris ...	29.83	48	NW	3	c	30.10	+ .42	43	42	- 4	NW	2	o	*	56	43	0.04		
Brest ...	?	51	NW	4	c	?	?	49	48	0	W	3	o	3	54	43	-		
Loirent ...	30.03	52	NW	5	c	30.13	+ .27	48	46	0	Z	0	bc	2	54	45	-		
Rochefort ...	30.00	53	NW	6	bc	30.18	+ .26	47	46	- 3	WNW	2	bc	2	55	39	-		
Belfort ...	29.83	45	W	2	o	29.94	+ .18	46	43	- 2	W	2	o	*	63	39	0.08		
Lyon ...	29.77	44	W	2	c	30.06	+ .24	46	42	0	NW	3	o	*	56	41	0.04		
Nice ...	29.66	57	W	4	b	29.71	+ .07	53	42	+ 1	N	5	b	2	63	45	-		
Perpignan ...	29.95	83	NW	4	bc	30.12	+ .21	52	45	0	NW	4	b	*	63	45	0.04		
Monte ...	30.12	53	WNW	6	o	30.21	+ .19	52	47	0	WNW	3	o	3	57	48	0.04		
Corunna ...	?	?	?	?	?	?	?	?	?	?	?	?	?	?	?	?	?		
Lisbon ...	30.21	57	NW	4	c	30.20	- .02	53	50	- 2	N	4	b	2	63	48	-		

For Explanation of Columns, see p. 4. *Station* - The amount of Rainfall entered to London & Received too late for insertion in Charts on p. 8 in yesterday's Report should read "0.23 in." instead of "0.44 in."

WEATHER CHARTS

for 8 a.m. on Friday, 26th April, 1889.

BAROMETER, WIND & SEA.

(Explanation of Map)

Barometer — Isobars are drawn for each tenth of an inch. Changes since previous morning are stated in words. Arrows show the prevalent winds. They fly with the wind and their barbs and feathers refer to force, thus —

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

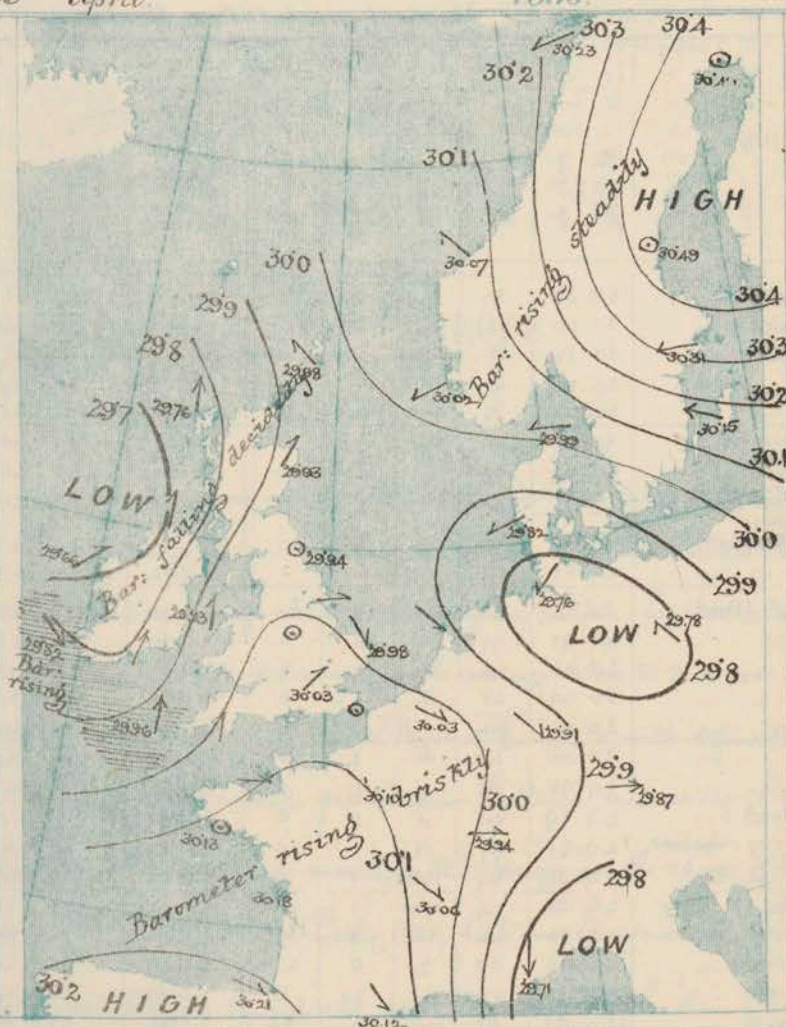
Sea Disturbance — where considerable, is shown thus.

— Rough — High.

MEAN HEIGHT of the BAROMETER

at 8 a.m. for the month of April.
 During the 15 Years 1871 — 1885.

STATIONS	MEAN READINGS.
Sumburgh Head	29.849
Stornoway	29.821
Wick	29.853
Nairn	29.853
Aberdeen	29.862
Leith	29.865
Shields	29.870
York	29.877
Loughborough	29.878
Ardrossan	29.857
Donaghadee	29.853
Holyhead	29.851
Liverpool	29.864
Parsonstown	29.853
Valencia	29.835
Roche's Point	29.838
Pembroke	29.844
Scilly	29.849
Jersey	29.867
Hurst Castle	29.867
Dover	29.866
LONDON	29.877
Oxford	29.882
Cambridge	29.879
Yarmouth	29.876



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.

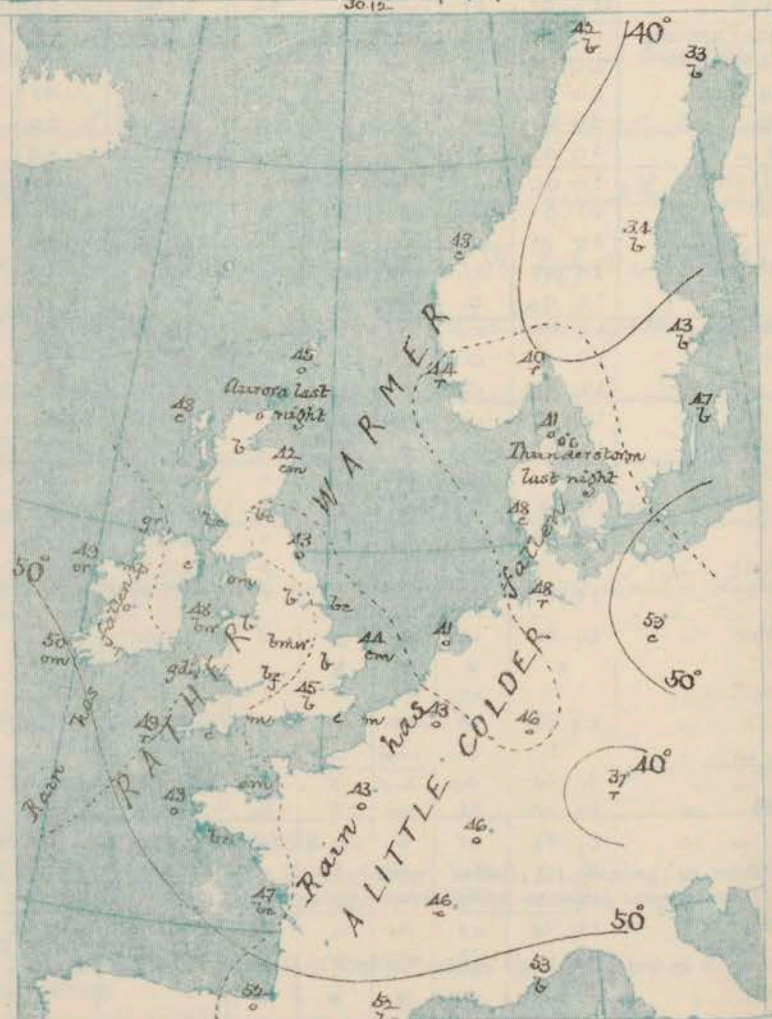
Rainfall A dotted line separates the districts in which rain has fallen from those where there has been none. Falls of 0.5 in. or more, are quoted in figures.

MEANS OF TEMPERATURE IN SHADE.

AND RAINFALL.
 for the month of April.

STATIONS.	TEMPERATURE.				RAINFALL. (Inches)
	Daily Max.	Daily Min.	at 8 a.m.		
			Dry.	Wet.	
Sumburgh Head	46.3	37.3	41.9	40.5	2.16
Stornoway	49.3	37.5	44.1	42.3	2.51
Wick	49.2	37.4	43.2	41.2	1.56
Nairn	51.5	37.9	43.1	40.6	1.23
Aberdeen	50.6	38.5	43.4	40.9	2.23
Leith	52.6	38.2	44.2	42.1	1.65
Shields	49.2	39.2	43.8	41.7	1.94
York	54.1	37.8	44.1	42.0	1.86
Loughborough	55.7	38.8	45.1	42.6	1.77
Ardrossan	52.1	39.9	44.6	42.2	2.23
Donaghadee	51.8	40.1	44.8	43.2	2.02
Holyhead	51.9	42.4	46.2	44.2	1.86
Liverpool	58.0	40.7	45.5	42.6	1.56
Parsonstown	55.0	38.3	45.7	43.0	2.15
Valencia	54.3	42.9	48.4	45.9	4.01
Roche's Point	54.2	42.4	47.0	44.9	3.43
Pembroke	50.8	42.1	45.6	43.6	2.10
Scilly	52.5	45.0	49.0	47.1	2.45
Jersey	54.6	43.6	49.0	46.4	2.04
Hurst Castle	52.3	41.4	45.9	44.6	1.87
Dover	51.5	42.4	47.1	44.5	1.81
LONDON	56.7	40.0	46.8	43.5	1.86
Oxford	55.1	39.3	45.0	42.7	1.79
Cambridge	56.2	37.7	45.5	43.3	1.76
Yarmouth	49.5	40.4	45.1	43.4	1.80

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



GENERAL SITUATION AT 8 A.M.

PRESSURE

Highest 30.4 ins. to 30.0 ins. over Scandinavia, 30.2 ins. to 30.0 ins. over Spain, France and the southeast of England.
 Lowest 29.8 ins. and less over the Gulf of Genoa, and also over north Germany - 29.7 ins. and less over our northwestern coasts.
 Gradients rather steep in the south of France, moderate or slight elsewhere.
 Barometer unsteady - rising at our southeastern station, falling in the west and northwest.

TEMPERATURE

Highest 54° at Berlin, 53° at Nice and Lisbon, 52° at Biarritz and Perpignan, 50° at Valencia.
 Lowest 33° to 36° in the north of Sweden and 37° at Munich, 40° at Nurn, 41° at the Scaw and the Hadden.
 A sharp frost occurred on the grass over central England early this morning; the thermometer is now rising fast.

WIND

Very variable over France (N^W at the southern stations), nearly calm over England.
 Variable from the S^W on our western coasts (but N^W at Valencia).
 E^W on the eastern shores of the North Sea, SE^W to S^W in Scotland.

WEATHER

Fine and bright in Sweden, England and the west and south of France.
 Dull and rainy in the west of our Islands and the southwest of Norway and at the mouth of the Elbe. Aurora was seen at Wick last night.
 Thunderstorm occurred at the Scaw yesterday.

SEA

Rather rough on our southwest coasts, slight or smooth in most other places.

PROBABLE CHANGES IN SYSTEM NOW PREVALENT

The unsettled weather in the west appears likely to spread over Great Britain during the coming 24 hours. A good deal of rain is likely in many places, and thunderstorms locally.

FORECASTS

for the 24 hours ending at NOON on 27TH APRIL 1889.

DISTRICTS.

FORECASTS.

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

Varying S^W and SW^W winds; unsettled, rain at times.
 Wind S^W and variable, moderate; becoming unsettled again, and raining; thunder locally.

DISTRICTS.

FORECASTS.

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

Variable breezes, moderate or fresh;
 cloudy, unsettled, a good deal of rain at times.

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.	Dry.	Wet.	Wind.	Wes.	Sen.		Bar.	Dry.	Wet.	Wind.	Wes.	Sen.
Skudesnaes ...	29.95	50	44	E 8	0	4	Holyhead ...	29.99	47	44	NNE 4	c	4
Sumburgh Head ...	30.03	44	40	NE 3	c	5	Valencia ...	30.07	56	50	WNW 3	cm	3
Stornoway ...	30.02	46	45	E 3	0	3	Seilly ...	30.01	50	46	NW 5	bc	5
Aberdeen ...	30.02	44	41	N 3	0.9	4	Jersey ...	29.91	49	45	WNW 4	0	3
Shields ...	29.40	44	44	N 3	0.2	2	Dungeness ...	29.76	48	46	NNE 2	r	2
Ardrossan ...	30.00	52	49	WNW 3	c	2	London ...	29.84	49	45	N 3	c	
Malin Head ...	30.01	49	46	NNE 2	0	2	Yarmouth ...	29.79	44	43	N 4	cp	4
Mullaghmore ...	30.03	51	48	WNW 2	bc	2	Rochefort ...	29.94	54	50	NW 6	bc	1
Belmullet ...	30.03	51	46	NW 2	c	*							

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

Yesterday morning's reports showed that pressure was high (between 30.0 ins. and 30.2 ins.) over the Spanish Peninsula, the southeast of Russia, and Scandinavia, low (29.8 ins. and less) over the whole of Central Europe and Italy. Within this large area of low pressure were 3 minima, one over Holland and Belgium, another over the Riviera, and a third at the northern extremity of the Adriatic. Thus while NW^{ly} winds prevailed over Spain and the south and west of France, and blew strongly in most places, those over our islands were NE^{ly} and N^{ly}, and were moderate, those over the Baltic E^{ly} and those in Italy and Germany SW^{ly}. Elsewhere the wind was very variable and light. The weather was fine and bright over northern Europe, as well as at the Scotch and Irish stations, the south of Spain, Algeria and on the shores of the Black Sea. At all the more central stations, in the south of England, and on the shores of the North Sea, it was cloudy and unsettled, with rain at many stations. Temperature had changed little and irregularly. It was above 60° on the southern shores of the Mediterranean only; it was below 50° at all our own stations excepting Valencia, but was not below the freezing point anywhere. The lowest individual values were 32° at Ulenberg, 33° at Archangel, 34° at Kuopio and St. Petersburg, 36° at Bodo, 39° at Hango and Christiansund, and 42° at Aberdeen and Naism; the highest were 64° at La. Calle, 63° at Brindisi, 61° at Malta, 60° at Cagliari, 59° at Barcelona and Rome, 56° at Corunna, San Fernando, Leghorn, Gracow and Breslau, 54° at Berlin and Vienna, 52° at Biarritz, and 51° at Valencia. At Madrid the temperature was 50°, at Paris 47°, and in London 44°.

Later in the day the sky cleared over England and temperature fell fast, while in Ireland and Scotland the barometer began to fall, the wind to draw towards S, and temperature to rise.

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 (foggy); o. overcast; p. passing shower; q. squally; r. rain; a. 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. 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, 27th April, 1889.*
Issued by the Meteorological Office, 63 Victoria Street, London. R. H. SCOTT, Secretary.

+ YESTERDAY EVENING.																			8 A.M. TO DAY.										PAST 24 HOURS.		
STATIONS.	Barometer at 32° F. and Sea Level.	Temp. in Shade.	WIND.			Weather.	BAROMETER.		SHADE TEMP.			WIND.		Weather.	Sea. (0 to 9.)	SHADE TEMP.															
			Dir.	Force. (0 to 12.)			Reading at 32° F. and Sea Level.	Difference from 8 a.m. yesterday.	Dry.	Wet.	Difference from 8 a.m. yesterday.	Dir.	Force. (0 to 12.)			Max.	Min.	Amount of Rainfall.													
SCANDINAVIA.																															
Haparanda ..	30.47	27	Z	0	b		30.41	- .08	29	28	- .4	Z	0	b	*		43	18	-												
Hernösand ...	30.44	31	Z	0	b		30.47	- .02	34	32	- 0	Z	0	b	*		50	19	-												
Stockholm ...	30.33	37	ESE	4	b		30.33	+ .02	42	37	- 1	E	4	b	*		50	30	-												
Wisby ...	30.17	42	E	6	b		30.17	+ .02	45	40	- 2	E	4	b	*		59	37	-												
Bodö ...	30.13	45	ESE	5	o		30.14	- .09	43	39	+ 1	E	4	o	2		48	34	-												
Christiansund...	30.01	49	WSW	1	o		29.97	- .10	51	47	+ 3	ESE	3	o	2		54	43	0.04												
Skudesnaes ...	29.96	46	E	1	r		30.04	+ .02	43	42	- 1	SE	4	r	4		46	41	0.75												
Christiania Fjord (Fæder)	30.15	46	ESE	4	o		30.19	+ .06	42	38	+ 2	NNE	4	bc	1		46	?	0.08												
Skagen (The Scaw)	30.06	46	SE	3	b		30.13	+ .14	43	40	+ 2	ESE	3	o	2		54	41	-												
Fanö ...	30.01	48	ESE	4	o		30.02	+ .20	45	45	- 3	SSE	2	m	*		54	45	0.04												
BRITISH ISLANDS.																															
Sumburgh Head	29.80	42	SSE	4	o		29.77	- .21	44	44	+ 1	SSE	3	o	5		44	42	0.03												
Stornoway ..	29.59	46	WNW	7	r		29.70	- .06	45	44	- 3	W	4	o	4		48	40	0.15												
Wick ...	29.70	46	S	5	p		29.77	- .09	47	46	+ 2	S	4	c	3		50	43	0.07												
Nairn ...	29.67	45	W	3	o		29.73	- .12	45	42	+ 5	SW	1	o	1		53	40	0.01												
Aberdeen...	29.80	42	SE	4	c		29.83	- .10	49	45	+ 7	SW	2	bc	3		50	42	0.02												
Leith ...	29.78	48	SW	2	o		29.86	- .07	48	44	+ 1	W	4	c	*		57	35	0.12												
Shields ...	29.81	46	S	2	c		29.88	- .06	50	48	+ 7	W	1	cm	2		52	41	0.03												
Spurn Head ...	29.89	47	E	4	b		29.93	- .04	50	49	+ 5	SW	1	c	2		50	44	0.01												
York ...	29.82	57	S	1	bc		29.89	- .05	51	48	+ 6	W	1	b	*		59	44	0.05												
Loughborough	29.91	54	SSW	3	o		29.96	- .05	53	48	+ 7	W	1	b	*		61	45	0.02												
Ardrossan ...	29.73	46	ESE	4	dm		29.86	- .01	46	44	- 2	WSW	3	bc	3		49	44	0.27												
Malin Head ...	29.70	47	WSW	3	op		29.81	+ .11	43	40	- 3	S	4	b	3		48	40	0.18												
Mullaghmore ...	29.75	45	W	4	cp		29.83	+ .14	46	40	- 1	SSW	5	b	3		51	39	0.06												
Belmullet ...	29.75	50	WSW	5	b		29.80	+ .14	46	43	- 3	SW	5	bc	*		52	42	0.14												
Donaghadee ...	29.74	47	SW	5	o		29.90	+ .02	47	45	+ 1	SW	4	bc	2		50	44	0.18												
Barrow-in-Furness	29.85	47	SE	4	r		29.89	- .07	47	45	+ 5	S	5	o	*		53	41	0.17												
Liverpool (Bidston)	29.85	48	S	2	r		29.94	- .02	51	45	+ 3	SW	1	b	2		57	43	0.19												
Holyhead ...	29.81	47	S	4	dm		29.93	- .00	47	45	- 1	WSW	3	op	3		51	42	0.19												
Parsonstown ...	29.81	52	SSW	2	bc		29.90	+ .12	45	42	0	SE	1	b	*		54	37	0.01												
Valencia ...	29.88	51	WSW	5	bc		29.90	+ .08	48	43	- 2	SW	4	bc	5		55	38	0.05												
Roche's Point...	29.86	53	WNW	3	b		29.91	+ .10	48	44	- 1	S	1	b	3		55	41	0.06												
Pembroke ...	29.84	48	SW	5	o		29.96	- .00	46	46	- 2	SSW	5	rq	4		48	45	0.09												
Scilly ...	29.93	50	W	4	c		29.99	+ .03	53	51	+ 4	SSW	4	o	4		53	46	0.13												
Prawle Point ...	29.95	48	SW	6	r		30.03	- .01	48	47	+ 1	SSW	2	b	2		51	39	0.12												
Jersey ...	30.06	52	SSW	4	ogem		30.05	- .05	50	48	+ 1	WNW	3	cm	3		56	47	0.27												
Hurst Castle ...	30.03	48	SW	4	r		30.02	- .04	50	49	+ 5	W	3	c	2		54	45	0.24												
Dungeness ...	30.02	49	WSW	4	b		30.01	- .03	47	47	+ 1	SW	4	r	3		53	45	0.10												
London ...	30.60	52	S	3	c		29.99	- .04	51	49	+ 6	WSW	1	bc	*		61	44	0.14												
Oxford ...	29.98	47	S	3	r		30.01	- .02	47	46	+ 7	SW	2	c	*		57	40	0.05												
Cambridge ...	29.96	55	SW	2	b		29.98	- .05	53	50	+ 3	W	1	c	*		60	43	0.06												
Yarmouth ...	29.97	46	S	4	c		29.98	- .00	48	47	+ 4	SSW	3	cd	3		50	43	0.04												
Cuxhaven ...	29.92	?	WNW	2	b		30.01	+ .25	47	46	- 1	NW	4	b	*		52	44	-												
Berlin ...	29.85	61	NW	1	b		29.94	+ .16	57	?	- 2	Z	0	bc	*		72	54	-												
Wiesbaden ...	*	*	*	*	*		30.09	+ .18	45	43	- 1	SW	1	r	*		48	45	0.04												
Munich ...	29.98	37	W	5	r		30.08	+ .21	40	39	+ 3	W	5	r	*		40	36	0.79												
FRANCE & NETHERLANDS.																															
The Helder ...	30.06	45	WSW	1	b		30.06	+ .11	46	45	+ 5	SSW	1	b	1		48	36	-												
Brussels 9 A.M....	*	*	*	*	*		30.09	+ .06	52	46	+ 9	SSW	3	bc	*		53	43	-												
Cape Gris Nez...	?	48	SSW	2	b		?	?	47	46	+ 3	S	3	r	2		54	43	0.08												
Paris ...	30.11	54	E	1	b		30.12	+ .02	44	42	+ 1	S	2	o	*		58	38	-												
Brest ...	?	48	SW	5	r		?	?	49	47	0	Z	0	bc	1		54	43	0.16												
Lorient ...	30.10	50	SSW	3	o		30.04	- .09	50	49	+ 2	NNE	1	o	2		55	45	0.12												
Rochefort ...	30.19	54	WNW	3	o		30.15	- .03	53	49	+ 6	S	2	o	2		63	45	-												
Belfort ...	30.08	43	W	2	o		30.04	+ .10	50	46	+ 4	W	1	o	*		61	36	-												
Lyons ...	30.11	50	WNW	4	b		30.14	+ .08	45	41	- 1	N	2	b	*		54	39	-												
Nice ...	29.75	60	ESE	3	b		29.91	+ .20	51	45	- 2	E	2	bc	0		66	48	-												
Perpignan ...	30.08	58	NW	3	b		30.08	- .04	57	48	+ 5	NW	3	bc	*		63	47	-												
Biarritz ...	30.14	57	NE	3	b		30.12	- .09	52	48	0	SW	1	o	0		63	46	-												
Corunna ...	*	*	*	*	*		30.19	- .01	55	54	+ 1	NW	3	o	3		61	48	0.08												
Lisbon ...	30.19	54	WNW	4	b		30.19	- .01	54	52	+ 1	WNW	4	c	3		64	52	-												

For Explanation of Columns, see p. 4.

Received too late for insertion in Charts on p. 2

WEATHER CHARTS

for 8 a.m. on Saturdays 27th April.

1889.

BAROMETER, WIND & SEA.

(Explanation of Map)

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

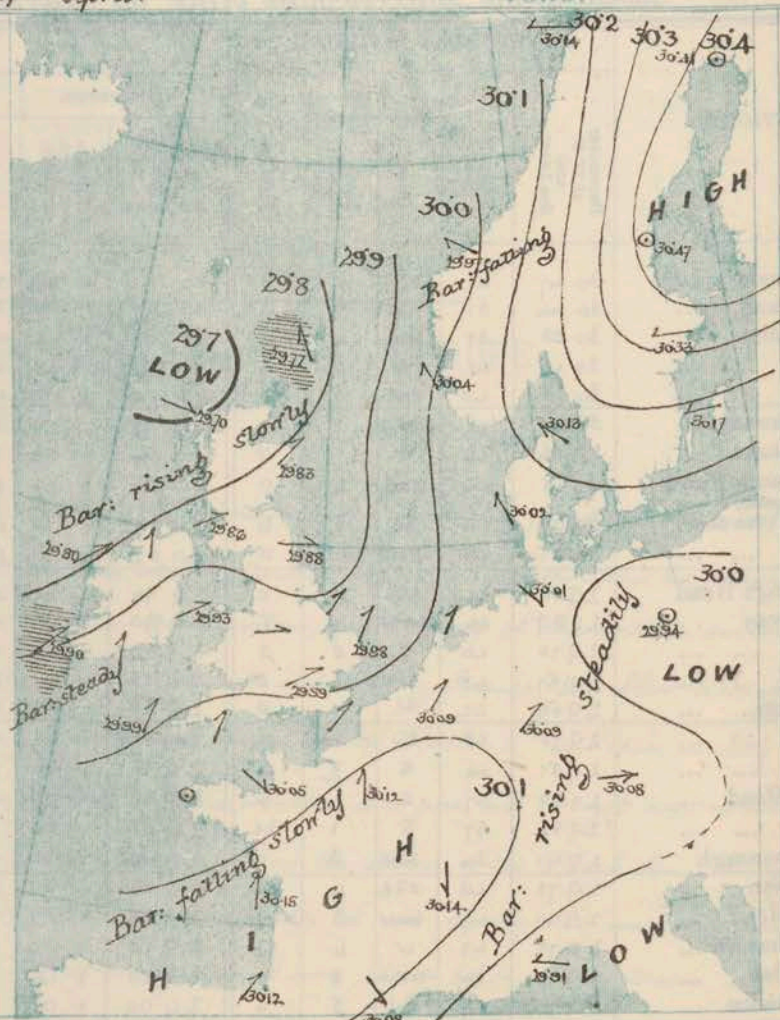
Sea Disturbance — where considerable, is shown thus.

— = Rough — = High.

MEAN HEIGHT of the BAROMETER

at 8 a.m. for the month of April.
 During the 15 Years 1871—1885.

STATIONS	MEAN READINGS.
Sumburgh Head	29.849
Stornoway	29.821
Wick	29.853
Nairn	29.853
Aberdeen	29.862
Leith	29.865
Shields	29.870
York	29.877
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Ardrossan	29.857
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Parsonstown	29.853
Valencia	29.835
Roche's Point	29.838
Pembroke	29.844
Scilly	29.849
Jersey	29.867
Hurst Castle	29.867
Dover	29.866
LONDON	29.877
Oxford	29.882
Cambridge	29.879
Yarmouth	29.876



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.

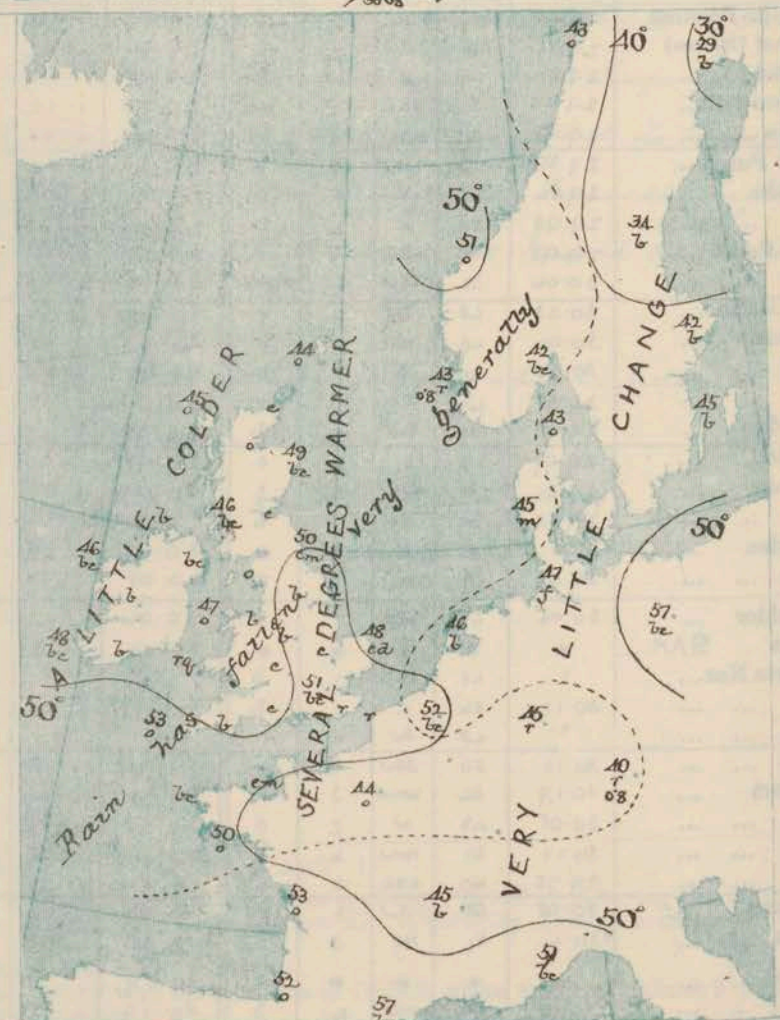
Rainfall — A dotted line separates the districts in which rain has fallen from those where there has been none. Falls of 0.5 in. or more, are quoted in figures.

MEANS OF TEMPERATURE IN SHADE.

AND RAINFALL.
 for the month of April.

STATIONS	TEMPERATURE.				RAINFALL. (Inches)
	Daily Max.	Daily Min.	at 8 a.m.	at 8 a.m.	
			Dry	Wet	
Sumburgh Head	43.3	37.3	41.9	40.5	2.16
Stornoway	40.3	37.5	44.1	42.3	2.51
Wick	49.2	37.4	43.2	41.2	1.56
Nairn	51.5	37.9	43.1	40.6	1.23
Aberdeen	49.6	38.5	43.4	40.9	2.23
Leith	52.6	38.2	44.2	42.1	1.65
Shields	49.2	39.2	43.8	41.7	1.94
York	54.1	37.8	44.1	42.0	1.86
Loughborough	55.7	38.3	45.1	42.6	1.77
Ardrossan	52.1	39.9	44.6	43.2	2.23
Donaghadee	51.3	40.1	44.8	43.2	2.03
Holyhead	51.9	42.4	46.2	44.2	1.86
Liverpool	53.0	40.7	45.5	42.6	1.56
Parsonstown	55.0	39.3	45.7	43.0	2.15
Valencia	54.3	42.9	48.4	45.9	4.01
Roche's Point	54.2	42.4	47.0	44.9	3.43
Pembroke	50.8	42.1	45.6	43.6	2.10
Scilly	52.5	45.0	49.0	47.1	2.45
Jersey	54.6	43.6	49.0	46.4	2.04
Hurst Castle	52.3	41.4	45.9	44.6	1.87
Dover	51.5	42.4	47.1	44.5	1.81
LONDON	56.7	40.0	46.8	43.8	1.88
Oxford	55.1	39.3	45.0	42.7	1.79
Cambridge	56.2	37.7	45.5	43.3	1.76
Yarmouth	49.5	40.4	45.1	43.4	1.80

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



GENERAL SITUATION AT 8 A.M.

PRESSURE

Highest, 30.00 ins. to 30.47 ins. over Sweden, 30.1 ins. and more, over Spain and Central France.
Lowest, 29.70 ins. and less, off the extreme northwest of Scotland — 30.0 ins. and less, over North Germany and the north of Italy.
Gradients slight and irregular. Barometer unsteady generally, but no great change in progress.

TEMPERATURE

Highest, 57° at Berlin, 54° at Lisbon, 53° at Rochefort and Seilly, 51° in London, Liverpool and York.
Lowest, 29° at Haparanda, 34° at Helsingfors, 40° at Munich, 42° at Stockholm, and 44° at Lumburgh Head.
It rose during yesterday to 72° at Berlin to between 60° and 66° in the south of France, to 61° in London, and to 57° at Liverpool and Seilly.

WIND

E^{ly} over the Baltic and Scandinavia — S^{ly} to W^{ly} and variable over the British Isles.
Very variable over France and Germany — Calm at Berlin.
In force it is light to moderate generally.

WEATHER

Changeable; showery at times, but occasionally clear and bright.
Rainfall since yesterday has been slight except at Altdon and Munich.

SEA

Rather rough at Lumburgh Head and Valencia, moderate on our southwest coasts generally, slight or smooth elsewhere.

PROBABLE CHANGES IN SYSTEM NOW PREVALENT

The changes in progress are slight, and a continuation of mild and rather changeable weather seems probable — rain at times perhaps thunder and SE to SW winds.

FORECASTS

for the 24 hours ending at NOON on 28th April 1889.

DISTRICTS.

FORECASTS.

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

SW^{ly} and S^{ly} breezes, light or moderate;
some showers, bright intervals.

SW^{ly} and S^{ly} breezes, light; mild, local
showers, bright intervals, possibly thunder.

DISTRICTS.

FORECASTS.

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

Same as Nos 0 to 2

Varying S^{ly} breezes, changeable,
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.	Dry.	Wet.	Wind.	Wca.	Sea.		Bar.	Dry.	Wet.	Wind.	Wca.	Sea.
Skudesnae ...	30.01	45	45	NW 1	r	3	Holyhead ...	29.85	47	47	S 4	r q m	4
Sumburgh Head ...	29.86	44	42	SE 3	o	5	Valencia ...	29.88	55	51	W 1	b c m	1
Stornoway ...	29.65	47	47	S 5	r	5	Scilly ...	29.90	51	51	WSW 5	r f	
Aberdeen ...	29.85	46	43	SSE 4	bc	4	Jersey ...	30.08	56	49	S 3	c	3
Shields ...	29.85	46	45	ESE 4	m	2	Dungeness ...	30.02	52	50	WSW 4	b	3
Ardrossan ...	29.80	48	47	SSW 4	r	3	London ...	29.99	60	50	SW 3	bc	*
Malin Head ...	29.64	47	46	SSW 5	o	3	Yarmouth ...	29.98	48	46	SE 4	c	4
Mullaghmore ...	29.72	50	48	W 5	o g m	5	Rochefort ...	30.21	55	50	NW 3	b	2
Belmullet ...	29.76	51	48	WNW 3	bc	*							

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

The reports for yesterday morning showed that pressure was highest, 30.4 ins. and upwards, in an anticyclone lying over Finland and the north of Sweden and high, 30.2 ins. and upwards, in another system lying over Portugal and the north of Spain. The lowest readings 29.7 ins. and less were found in a depression lying to the northward of our Islands, and also in a large and somewhat irregularly formed disturbance which extended from the south of Austria to the Gulf of Genoa. The wind was light or moderate from the E. over Russia and Northern Europe and from the SE. over the northern and northwestern parts of our Islands, but on our southwest coast it was fresh from the S. Over the Channel and France W. or NW. breezes were reported with a strong mistral at Toulon and also at Tanguinac, but in Italy the wind was moderate from the SW. while in Spain and Algeria it was light and variable. The weather was dull and rainy in Ireland and the southwest of England, as well as in the south of Norway and some parts of Austria and South Germany. Elsewhere, however, conditions were generally fair. Temperatures had fallen in London and several parts of Central and Southern Europe, but risen elsewhere; readings ranged from a little above 60° at some of the Mediterranean stations to a few degrees below 40° over the northern parts of Sweden and Russia. The highest individual readings were 63° at Brindisi, 62° at Algiers and Cagliari, 60° at Malta, 59° at Berlin, 58° at Luda Beeth, San Fernando and Oron, 57° at Breslau, Cracow, Bilbao, Ligny, and Palermo, and 55° at Pavia and Anversa; the lowest were 33° at Haparanda, 32° at Helsingfors, 35° at Uleaborg and Kuopio, 37° at Munich, 39° at Hango, 40° at Lander and Kain, 41° at Helsingfors and Hagen, and 42° at Rode and Aberdeen.

In the course of the day the depression to the northward of our Islands travelled northwards, but some shallow secondary disturbances advanced eastward over England, and stormy unsettled weather consequently spread all over the United Kingdom.

EXPLANATION OF COLUMNS GIVEN ON PAGE 1.

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

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

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

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

DAILY WEATHER REPORT.

for Sunday 28th April 1889.
Issued by the Meteorological Office, 63 Victoria Street, London. R. H. SCOTT, Secretary.

STATIONS.	† YESTERDAY EVENING.						2 A.M. TO DAY.										PAST 24 HOURS.		
	Barometer at 32° F. and Sea Level.	Temp. in Shade.	WIND.		Weather.	Barometer. Reading at 32° F. and Sea Level.	Difference from 8 a.m. yesterday.	SHADE TEMP.		Difference from 8 a.m. yesterday.	WIND.		Weather.	Sea. (0 to 9.)	SHADE TEMP.		Amount of Rainfall.		
			Dir.	Force. (0 to 12.)				Dry.	Wet.		Dir.	Force. (0 to 12.)			Max.	Min.			
SCANDINAVIA.																			
Haparanda ..	30.49	31	S	2	b	30.43	+ .02	31	29	+ 2	S	2	b	*	39	18	—		
Hernösand ...	30.43	31	L	0	b	30.47	+ .00	33	32	— 1	L	0	b	*	50	21	—		
Stockholm ...	30.34	35	NE	2	b	30.34	+ .01	41	37	— 1	E	2	b	*	?	?	—		
Wäsby ...	30.20	42	E	4	b	30.21	+ .04	46	41	+ 1	E	4	b	*	55	36	—		
Bodö ...	30.20	45	E	6	f	30.25	+ .11	48	41	+ 5	E	2	b	1	?	41	—		
Christiansund...	30.13	46	E	1	b	30.10	+ .13	46	44	— 5	ESE	1	b	1	51	37	—		
Skudesnæs ...	30.08	44	L	0	r	30.07	+ .03	47	45	+ 4	L	0	o	2	?	43	0.20		
Christiania Fjord (Fæder)	30.19	47	E	3	b	30.18	— .01	42	39	0	N	6	o	1	50	41	—		
Skagen (The Skaw)	30.10	47	SE	3	b	30.10	— .03	44	43	+ 1	E	2	o	1	59	41	—		
Fanö ...	30.06	47	SSE	4	o	29.98	— .04	45	45	0	SSE	4	o	*	50	43	—		
BRITISH ISLANDS.																			
Sumburgh Head	29.91	47	SSE	1	c	29.88	+ .11	44	44	0	SE	1	m	4	50	39	—		
Stornoway ...	29.78	48	S	5	b	29.67	— .03	47	45	+ 2	S	4	o	4	50	37	—		
Wick ...	29.84	50	S	2	b	29.78	+ .01	43	42	— 4	S	3	f	3	55	40	0.03		
Nairn ...	29.80	50	L	0	b	29.73	— .00	44	45	+ 3	L	0	c	1	55	41	—		
Aberdeen...	29.89	46	SE	3	b	29.81	— .02	4	42	— 7	SE	2	f	3	54	41	0.02		
Leith ...	29.86	47	SW	3	b	29.76	— .10	4	46	+ 1	SE	1	b	*	58	41	—		
Shields ...	29.90	49	E	2	c	29.77	— .11	45	45	— 5	E	1	m	2	55	42	—		
Spurn Head ...	29.91	48	ESE	4	c	29.83	— .10	46	45	— 4	SSE	4	r	3	54	44	0.01		
York ...	29.87	57	S	1	c	29.76	— .13	49	47	— 2	SSE	2	o	*	62	43	—		
Loughborough	29.93	58	SSW	2	o	29.81	— .15	46	44	— 7	SE	2	c	*	63	41	—		
Ardrossan ...	29.84	50	S	1	b	29.67	— .19	52	49	+ 6	ESE	3	b	2	52	41	—		
Malin Head ...	29.69	50	SSE	5	b	29.51	— .30	47	45	+ 4	SSE	6	og	4	53	43	—		
Mullaghmore ...	29.67	52	SSE	5	c	29.52	— .31	40	39	— 6	SSW	4	or	3	53	39	0.50		
Belmullet ...	29.60	50	S	7	c	29.55	— .25	41	40	— 5	SE	3	o	*	52	40	0.02		
Donaghadee ...	29.84	47	SSW	4	b	29.66	— .24	48	46	+ 1	S	4	b	2	53	44	—		
Barrow-in-Furness	29.90	49	ESE	3	b	29.74	— .15	49	46	+ 2	ESE	4	b	*	54	45	—		
Liverpool (Bidston)	29.90	51	SW	1	c	29.73	— .21	47	44	— 4	SSE	3	b	3	57	43	0.04		
Holyhead ...	29.88	49	SW	3	b	29.66	— .27	49	45	+ 2	SE	3	c	3	54	44	—		
Parsonstown ...	29.75	49	SSE	2	c	29.51	— .39	36	35	— 9	L	0	o	*	53	35	0.62		
Valencia ...	29.65	51	S	7	o	29.61	— .29	43	41	— 5	SE	1	chpr	1	57	39	0.26		
Roche's Point...	29.77	50	SSE	5	b	29.56	— .35	43	41	— 5	WSW	4	c	4	52	39	0.60		
Pembroke ...	29.89	48	S	4	b	29.61	— .35	47	46	+ 1	SSE	7	rmq	5	57	45	0.09		
Scilly ...	29.89	51	SSW	5	b	29.66	— .33	47	44	— 6	W	5	cp	6	56	45	0.25		
Prawle Point ...	29.96	48	S	3	b	29.74	— .29	49	47	+ 1	SSE	5	cg	4	57	44	—		
Jersey ...	30.00	51	SE	1	ogm	29.82	— .23	53	49	+ 3	SSE	3	b	3	56	44	0.01		
Hurst Castle ...	29.98	48	SW	3	c	29.80	— .22	49	48	— 1	S	2	c	1	54	44	—		
Dungeness ...	29.92	47	SW	4	f	29.94	— .07	48	48	+ 1	S	4	c	3	52	45	0.03		
London ...	29.95	54	SSW	3	o	29.81	— .18	57	49	0	S	2	o	*	62	45	0.07		
Oxford ...	29.95	50	SW	2	c	29.81	— .20	47	44	0	SSW	2	c	*	59	42	—		
Cambridge ...	29.94	55	SW	1	c	29.82	— .16	50	49	— 3	S	1	o	*	61	43	0.18		
Yarmouth ...	29.97	49	S	2	b	29.88	— .15	46	45	— 2	SSE	4	orm	3	50	48	0.06		
Cuxhaven ...	30.04	45	NNW	3	f	30.00	— .01	47	46	0	SE	1	o	*	47	44	—		
Berlin ...	30.81	55	WNW	4	o	30.01	+ .07	54	53	— 3	WNW	1	o	*	70	52	0.04		
Wiesbaden ...	*	*	*	*	*	29.99	— .10	50	48	+ 5	L	0	o	*	52	46	0.08		
Munich ...	30.09	42	L	0	c	30.03	— .05	45	42	+ 5	SE	4	o	*	46	32	—		
FRANCE & NETHERLANDS.																			
The Helder ...	30.05	50	ENE	1	c	29.94	— .12	52	50	+ 6	ESE	1	o	1	54	46	—		
Brussels ... 9am	*	*	*	*	*	29.92	— .17	54	48	+ 2	S	1	o	*	61	49	—		
Cape Gris Nez...	?	50	S	2	c	?	?	50	49	+ 3	SSE	2	o	1	52	46	0.08		
Paris ...	30.03	59	SW	3	o	29.91	— .21	52	49	+ 8	SW	1	o	*	64	44	—		
Brest ...	30.10	54	SSW	4	b	29.83	?	50	47	+ 1	SW	6	r	5	55	43	—		
Lorient ...	30.00	57	W	3	c	29.84	— .20	52	50	+ 2	SSW	4	c	2	54	46	—		
Rochefort ...	30.08	55	SW	4	o	29.99	— .16	52	?	— 1	SW	4	o	2	63	45	—		
Belfort ...	30.06	45	W	2	o	30.02	— .02	48	46	— 2	W	1	b	*	62	36	—		
Lyons ...	30.02	58	NNE	1	c	29.99	— .15	57	?	+ 6	ESE	1	b	*	62	41	—		
Nice ...	29.90	58	W	2	c	29.90	— .01	56	47	+ 5	ENE	1	b	1	64	48	—		
Perpignan ...	30.00	66	NNW	3	b	29.98	— .10	58	53	+ 1	NNW	2	b	*	78	44	—		
Biarritz ...	30.08	57	NNW	3	b	30.00	— .12	53	50	+ 1	SSE	2	o	2	63	50	—		
PENIN- SULA.																			
Cornuna ...	*	*	*	*	*	30.02	— .15	53	57	— 2	W	3	r	4	64	50	0.04		
Lisbon ...	30.12	56	NNW	4	b	30.13	— .06	54	50	0	NNW	4	b	2	64	52	—		

WEATHER CHARTS

for 8 a.m. on

Sunday, 28th April,

1889.

BAROMETER, WIND & SEA.

(Explanation of Map)

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

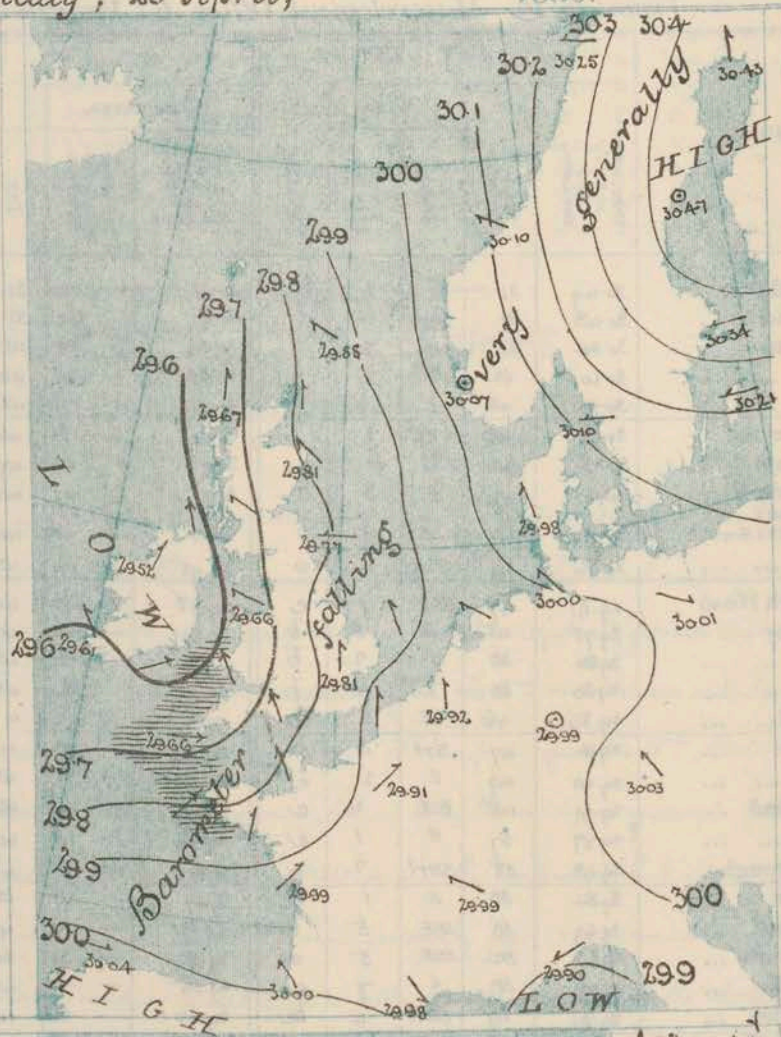
Sea Disturbance — where considerable, is shown thus.

— = Rough — = High.

MEAN HEIGHT of the BAROMETER

at 8 a.m. for the month of April.
 During the 15 Years 1871—1885.

STATIONS	MEAN READINGS.
Sumburgh Head	29.849
Stornoway	29.821
Wick	29.853
Nairn	29.853
Aberdeen	29.862
Leith	29.865
Shields	29.870
York	29.877
Loughborough	29.878
Ardrossan	29.867
Donaghadee	29.853
Holyhead	29.851
Liverpool	29.864
Parsonstown	29.858
Valencia	29.885
Roche's Point	29.838
Pembroke	29.844
Scilly	29.849
Jersey	29.867
Hurst Castle	29.867
Dover	29.866
LONDON	29.877
Oxford	29.882
Cambridge	29.879
Yarmouth	29.876



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 April.

STATIONS	TEMPERATURE.				RAINFALL. (Inches)
	Daily Max.	Daily Min.	Dry 8 a.m.	Wet.	
Sumburgh Head	46.3	37.3	41.9	40.5	2.18
Stornoway	49.3	37.5	44.1	42.3	2.61
Wick	49.2	37.4	43.2	41.2	1.66
Nairn	51.5	37.9	43.1	40.6	1.23
Aberdeen	49.6	38.5	43.4	40.9	2.23
Leith	52.6	38.2	44.2	42.1	1.65
Shields	49.2	39.2	43.8	41.7	1.94
York	54.1	37.8	44.1	42.0	1.88
Loughborough	55.7	38.3	45.1	42.6	1.77
Ardrossan	52.1	39.9	44.8	42.2	2.23
Donaghadee	51.3	40.1	44.8	43.2	2.02
Holyhead	51.9	42.4	46.2	44.2	1.86
Liverpool	53.0	40.7	45.6	42.6	1.66
Parsonstown	55.0	38.3	45.7	43.0	2.15
Valencia	54.3	45.9	48.4	45.9	4.01
Roche's Point	54.2	42.4	47.0	44.9	3.43
Pembroke	50.8	42.1	45.6	43.6	2.10
Scilly	52.5	45.0	49.0	47.1	2.45
Jersey	54.6	43.6	49.0	46.4	2.04
Hurst Castle	52.3	41.4	45.9	44.6	1.87
Dover	51.5	42.4	47.1	44.5	1.81
LONDON	56.7	40.0	46.8	43.8	1.86
Oxford	55.1	39.3	45.0	42.7	1.79
Cambridge	56.2	37.7	45.5	43.3	1.76
Yarmouth	49.5	40.4	45.1	43.4	1.80

NOTE — The Temperature means are for the 15 years 1871—85, the Rainfall means are mainly those for the 30 years 1866—85.



GENERAL SITUATION AT 8 A.M.

PRESSURE

Highest, 30.4 in. and upwards, over the north of Sweden; 30.1 in. and upwards, over Portugal.
 Lowest, 29.6 in. and less, in a depression lying over Ireland and to the westward of Scotland.
 Gradient moderate or slight generally. Barometer falling at all but the Swedish stations, mostly in the west of our Islands.

TEMPERATURE

Highest, 58° at Cork, 56° at Nice, 54° at Berlin and Lisbon, 53° at Jassy, Biarritz and Comua, and 52° at Anderson, Tientsin, and Paris.
 Lowest, 31° at Haparanda, 33° at Helsingfors, 36° at Paros, 40° at Mullaghmore, 41° at Stockholm and Kilmullet, and 42° at Tander and Aberdeen.

WIND

SE³ over the greater part of our Islands and the eastern shores of the North Sea; fresh or strong in force on our southwest coasts.
 Moderate from the SW² over the north and west of France; light from the E¹ in the south of Sweden.
 Variable in Germany and the south of France.

WEATHER

Fine in Scandinavia and France, but cloudy or overcast elsewhere, with fog on the east coast of Scotland, and showers in the southern parts of the United Kingdom.
 Since yesterday morning 0.7 in. of rain has fallen at Paros, and 0.5 in. at Mullaghmore.

SEA

Rough off the southwest of England, but moderate to smooth elsewhere.

PROBABLE CHANGES IN SYSTEM NOW PREVALENT

FORECASTS

for the 24 hours ending at NOON on 29th April. 1889.

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 districts 6 to 10.

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

YESTERDAY'S 2 P.M. REPORTS.

	Bar.	Dry.	Wet.	Wind.	Wea.	Sea.		Bar.	Dry.	Wet.	Wind.	Wea.	Sea.		
Skudesnaes ...	30.08	42	41	SSE	4	0	4	Holyhead ...	29.92	53	49	SSW	4	b	3
Sumburgh Head ...	29.85	49	40	S	3	b	5	Valencia ...	29.77	50	45	S	7	ang	b
Stornoway ...	29.78	49	40	S	6	bc	5	Scilly ...	29.94	50	48	S	5	bc	5
Aberdeen ...	29.88	54	48	SSE	4	b	3	Jersey ...	30.04	54	49	SSE	2	0	2
Shields ...	29.92	50	48	E	2	c	2	Dungeness ...	30.09	51	50	SSW	4	f	3
Ardrossan ...	29.87	48	46	SSW	1	b	1	London ...	29.98	59	51	W	1	0	*
Malin Head ...	29.78	51	44	S	4	c	3	Yarmouth ...	29.98	48	47	S	4	c	4
Mullaghmore ...	29.77	52	43	S	5	c	3	Rocheport ...	30.13	59	52	WSW	4	0	2
Belmullet ...	29.72	51	48	SSW	6	bc	*								

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

The reports for yesterday morning showed that pressure was highest, 30.1 ins. to nearly 30.6 ins., over Northern Europe, and somewhat high, 30.1 ins. and more, over Spain and the southwestern and central parts of France. From these regions it decreased to 29.6 ins. and less in a large depression, the centre of which lay over Transylvania, and to 29.7 ins. and less, off the extreme northwestern coast of the British Isles. The wind over the Baltic and Scandinavia was consequently E², that prevalent over the British Isles SW², that over Spain, the Mediterranean, and France variable, while over southeastern Europe there was a cyclonic circulation of light winds round the depression mentioned above. The weather was very changeable and stormy over Northwestern, dull over Southeastern, and rainy over Central Europe, but over Russia and Sweden, as well as in Spain, Algeria and Italy it was fine. Temperature was below the freezing point in the far north only; it was above 50° at several of the English stations, as well as over Germany and Southern Russia, but exceeded 60° at very few other stations. The lowest morning values were 29° at Haparanda, 31° at Archangel, 34° at Helsingfors and St. Petersburg, 36° at Kuopio and Helsingfors, 37° at Moscow, 38° at Hango; the highest were 62° at Algiers, 61° at Brindisi, and 60° at Barcelona and Bilbao, 59° at San Fernando, 57° at Perpignan and Berlin, 56° at Madrid, 55° at Kiev, 54° at Leningrad, Gerson, and Hamburg, 53° at Scilly, Cambridge, and Oxford, and 49° at Aberdeen. At Brussels the temperature was 52°, in London 51°, and at Paris 44°.

Later in the day, a good deal of rain fell over the southwestern and western part of the British Isles, with hail in places, and showers occurred in many other localities; thunder was reported in some parts of England.

EXPLANATION OF COLUMNS GIVEN ON PAGE 1.

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

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

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

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

DAILY WEATHER REPORT.

for *Monday, 29th April, 1889.*
Issued by the Meteorological Office, 63 Victoria Street, London. R. H. SCOTT, Secretary.

ISSUED BY THE METEOROLOGICAL OFFICE, 55, PARADE STREET, LONDON, W.1. 11.11.11, 11.11.11.																			
STATIONS.	+ YESTERDAY EVENING.						8 A.M. TO DAY.										PAST 24 HOURS.		
	Barometer at 32° F. and Sea Level.	Temp. in Shade.	WIND.		Weather.	Reading at 32° F. and Sea Level.	Difference from 8 a.m. yesterday.	SHADE TEMP.			WIND.		Weather.	Sea. (0 to 9.)	SHADE TEMP.		Amount of Rainfall.		
			Dir.	Force. (0 to 12.)				Dry.	Wet.	Difference from 8 a.m. yesterday.	Dir.	Force. (0 to 12.)			Max.	Min.			
SCANDINAVIA.																			
Haparanda ..	30.42	32	Z	0	b	30.39	-.04	37	34	+ 6	N	2	b	*	39	23	-		
Hernösand ...	30.43	33	Z	0	b	30.39	-.08	36	33	+ 3	Z	0	b	*	54	21	-		
Stockholm ...	30.32	35	NE	2	b	30.28	-.06	44	38	+ 3	NE	2	b	*	48	30	-		
Wisby ...	30.21	39	E	4	b	30.19	-.04	48	42	+ 2	SSE	4	b	*	55	36	-		
Bodö ...	30.22	49	E	2	b	30.21	?	50	41	+ 2	E	4	b	2	55	41	-		
Christiansund...	30.06	53	ESE	1	b	30.03	-.07	52	46	+ 6	ESE	3	b	2	63	43	-		
Skudesnaes ...	29.95	50	E	5	o	29.94	-.13	46	41	- 1	ESE	6	o	4	50	45	-		
Christiania Fjord (Færdar)	?	48	?	2	r	30.19	-.01	41	39	- 1	NE	5	b	1	50	39	-		
Skagen (The Scaw)	30.08	48	Z	0	c	30.06	-.04	44	41	0	ESE	3	b	2	59	41	-		
Fanö ...	29.94	48	SSE	4	c	29.92	-.06	46	45	+ 1	SE	4	c	*	57	45	0.04		
BRITISH ISLANDS.																			
Sumburgh Head	29.81	44	SE	3	o	29.68	-.20	44	43	0	SE	5	o	6	48	39	0.10		
Stornoway ...	29.49	52	SE	6	o	29.51	-.16	46	44	- 1	S	5	bc	4	56	41	0.01		
Wick ...	29.47	44	SE	5	f	29.63	-.15	46	45	+ 3	S	3	b	3	46	42	0.05		
Nairn ...	29.55	50	ESE	2	c	29.59	-.14	48	45	0	SSE	3	b	1	58	41	0.04		
Aberdeen...	29.67	43	SE	4	o	29.70	-.11	46	43	+ 4	SSE	3	bc	4	49	41	0.86		
Leith ...	29.55	51	S	1	c	29.70	-.06	49	43	0	SW	2	c	*	59	40	0.18		
Shields ...	29.60	45	SE	5	c m	29.77	.00	47	43	+ 2	S	2	b	2	49	38	0.08		
Spurn Head ...	29.65	47	SSE	4	r	29.84	+ .01	48	45	+ 2	SSW	4	b	3	49	41	0.12		
York ...	29.61	53	E	2	c	29.77	+ .01	46	43	- 3	S	1	b	*	59	37	0.09		
Loughborough	29.66	50	SW	4	c	29.63	+ .02	47	43	+ 1	S	3	bcw	*	60	36	0.02		
Ardrossan ...	29.52	49	E	2	o	29.65	-.02	47	45	- 5	S	4	b	4	54	42	0.01		
Malin Head ...	29.45	44	SW	3	o	29.54	+ .03	43	41	- 4	S	4	b	3	47	38	0.12		
Mullaghmore ...	29.49	42	W	2	op	29.54	+ .02	43	40	+ 3	S	5	bc	3	46	38	0.28		
Belmullet ...	29.47	46	SW	3	CV	29.50	-.05	42	41	+ 1	S	4	c	*	50	40	0.09		
Donaghadee ...	29.53	47	SW	3	c	29.66	.00	45	43	- 3	SSW	4	bc	2	50	42	0.10		
Barrow-in-Furness	29.59	46	S	4	o	29.71	-.03	42	41	- 7	SE	5	b	*	55	40	0.07		
Liverpool (Bidston)	29.64	46	WSW	3	o	29.77	+ .04	46	41	- 1	SSE	3	b	3	55	36	0.02		
Holyhead ...	29.61	47	WSW	4	c	29.70	+ .04	47	44	- 2	S	4	bcpp	4	51	40	0.08		
Parsonstown ...	29.54	46	Z	0	r	29.61	+ .10	44	41	+ 8	SE	2	b	*	48	34	0.10		
Valencia ...	29.59	45	W	4	cp	29.54	-.07	46	43	+ 3	WSW	2	cp	2	49	40	0.30		
Roche's Point...	29.61	44	WSW	5	cp	29.61	+ .05	42	41	- 1	SW	2	p	4	50	41	0.35		
Pembroke ...	29.68	46	WSW	5	b	29.70	+ .09	47	45	0	SSE	4	bcpp	4	48	42	0.11		
Soilly ...	29.78	47	WSW	5	c	29.68	+ .02	51	48	+ 4	S	6	cp	6	52	42	0.07		
Prawle Point ...	29.77	46	WSW	5	b	29.80	+ .06	48	45	- 1	SSE	5	bcpp	4	49	41	0.06		
Jersey ...	29.82	52	W	4	b	29.88	+ .06	50	46	- 3	SSW	4	cm	3	56	44	0.11		
Hurst Castle ...	29.75	48	WSW	5	bc	29.87	+ .07	49	48	0	SSW	5	bc	2	54	44	0.12		
Dungeness ...	29.76	52	SSW	3	bc	29.92	-.02	48	47	0	SW	3	bc	2	53	45	0.05		
London ...	29.73	52	SSW	2	op	29.89	+ .08	49	45	- 2	SW	2	bc	*	57	40	0.06		
Oxford ...	29.75	45	SSW	3	b	29.86	+ .05	47	44	0	SSE	2	b	*	58	39	0.03		
Cambridge ...	29.77	55	S	1	r	29.88	+ .06	48	45	- 2	S	1	b	*	59	34	0.16		
Yarmouth ...	29.73	48	SSE	3	bc	29.88	+ .05	48	45	+ 2	SW	2	b	2	49	40	0.03		
Cuxhaven ...	29.92	48	ESE	3	o	29.90	-.10	51	50	+ 4	SSE	2	o	*	52	?	-		
Berlin ...	29.97	59	Z	0	c	29.98	-.03	59	55	+ 5	SE	2	c	*	64	52	0.12		
Wiesbaden ...	*	*	*	*	*	29.97	-.02	53	50	+ 3	Z	0	b	*	57	45	-		
Munich ...	29.95	49	NE	1	b	29.99	-.04	52	48	+ 7	Z	0	b	*	59	37	-		
FRANCE & NETHERLANDS.																			
The Helder ...	29.82	52	ESE	1	r	29.92	-.02	49	48	- 3	SW	1	c	1	55	48	0.08		
Brasels ...	*	*	*	*	*	29.97	+ .05	52	47	- 2	SSW	2	bc	*	64	46	-		
Cape Gris Nez...	?	52	SW	2	b	?	?	47	46	- 3	S	2	b	1	59	45	0.04		
Paris ...	29.90	57	SW	3	c	29.96	+ .05	46	44	- 6	SSW	1	b	*	62	45	-		
Brest ...	?	50	WSW	1	c	?	?	50	48	+ 3	WSW	5	c	5	55	43	-		
Lorient ...	29.88	50	W	4	o	29.86	+ .02	48	44	- 4	SSW	4	b	4	54	43	0.20		
Rocheport ...	29.99	54	WSW	4	o	29.97	-	50	46	-	S	3	o	2	59	43	-		
Belfort ...	29.96	58	W	1	b	29.94	-.08	55	52	+ 7	W	1	o	*	69	37	-		
Lyons ...	29.88	63	SE	1	r	29.95	-	50	49	-	WSW	1	o	*	69	48	0.08		
Nice ...	-	-	-	-	-	29.98	+ .08	51	50	- 5	ESE	2	o	2	60	48	-		
Perpignan ...	29.91	60	E	2	o	29.93	-.05	56	54	- 2	NE	2	o	*	69	51	0.04		
Biarritz ...	29.98	57	NE	3	c	29.94	-.06	50	48	- 3	ESE	3	o	3	66	46	0.04		
PORTUGAL.																			
Corunna ...	*	*	*	*	*	-	-	-	-	-	-	-	-	-	-	-	-		
Lisbon ...	30.08	54	WSW	4	o	30.02	-.11	54	49	0	WSW	4	o	6	63	48	-		

For Explanation of Columns, see p. 4.

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

WEATHER

CHARTS

for 8 a.m. on Monday, 29th April.

1889.

BAROMETER, WIND & SEA.

(Explanation of Map)

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

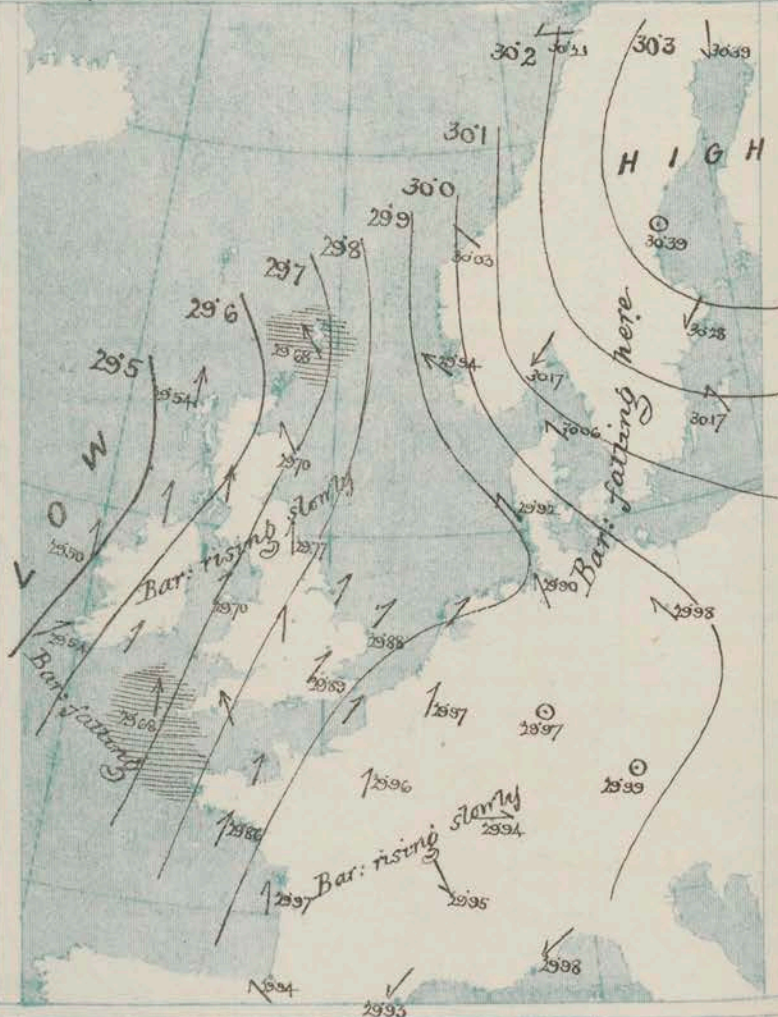
Sea Disturbance — where considerable, is shown thus.

— = Rough — = High

MEAN HEIGHT of the BAROMETER

at 8 a.m. for the month of April.
 During the 15 Years 1871—1885.

STATIONS.	MEAN READINGS.
Sumburgh Head	29.849
Stornoway	29.821
Wick	29.853
Nairn	29.853
Aberdeen	29.862
Leith	29.865
Shields	29.870
York	29.877
Loughborough	29.878
Ardrossan	29.857
Donaghadee	29.853
Holyhead	29.851
Liverpool	29.864
Parsonstown	29.853
Valencia	29.835
Roche's Point	29.838
Pembroke	29.844
Scilly	29.849
Jersey	29.867
Hurst Castle	29.867
Dover	29.866
LONDON	29.877
Oxford	29.882
Cambridge	29.879
Yarmouth	29.876



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.

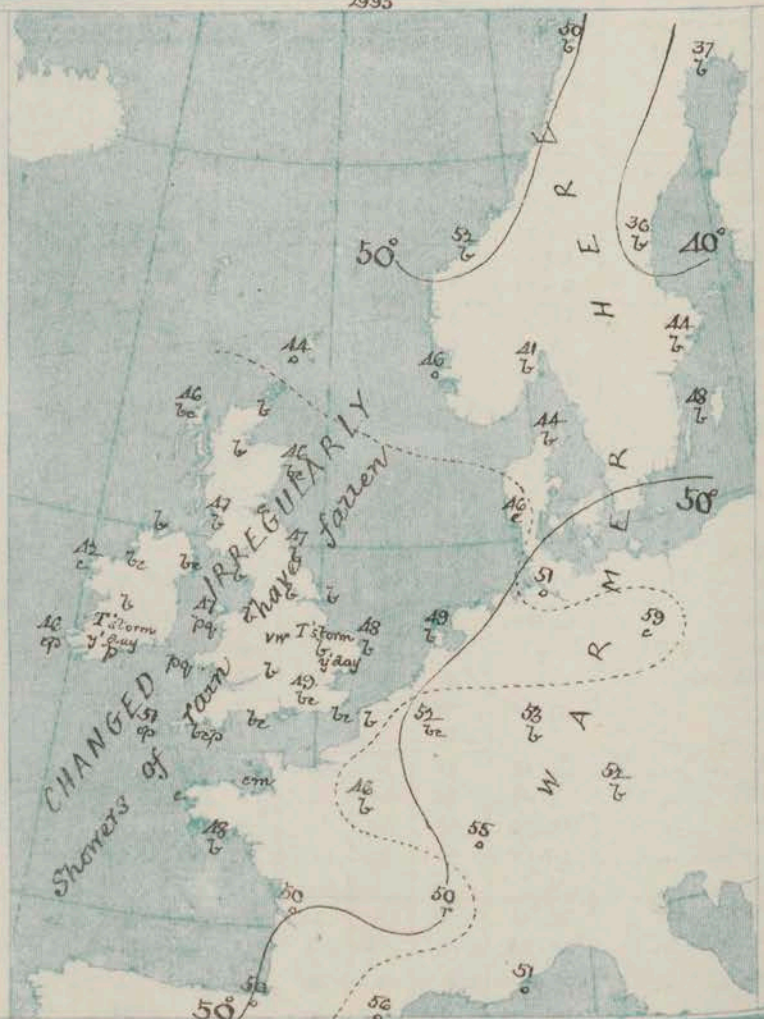
MEANS OF TEMPERATURE IN SHADE.

AND RAINFALL.

for the month of April.

STATIONS	TEMPERATURE.				RAINFALL. (Inches)
	Daily Max.	Daily Min.	at 8 a.m.		
			Dry.	Wet.	
Sumburgh Head	46.3	37.3	41.9	40.5	2.16
Stornoway	49.3	37.5	44.1	42.3	2.51
Wick	49.2	37.4	43.2	41.2	1.56
Nairn	51.5	37.9	43.1	40.6	1.23
Aberdeen	49.5	38.5	43.4	40.9	2.23
Leith	52.6	38.2	44.2	42.1	1.65
Shields	49.2	39.2	43.5	41.7	1.94
York	54.1	37.8	44.1	42.0	1.86
Loughborough	55.7	38.3	45.1	42.6	1.77
Ardrossan	52.1	39.9	44.6	42.2	2.23
Donaghadee	51.3	40.1	44.8	43.2	2.02
Holyhead	51.9	42.4	45.2	44.2	1.86
Liverpool	53.0	40.7	45.5	42.6	1.56
Parsonstown	55.0	38.3	45.7	43.0	2.15
Valencia	54.3	42.9	45.4	45.9	4.01
Roche's Point	54.2	42.4	47.0	44.9	3.43
Pembroke	50.8	42.1	45.6	43.6	2.10
Scilly	52.5	45.0	49.0	47.1	2.45
Jersey	54.8	43.6	49.0	46.4	2.04
Hurst Castle	52.8	41.4	45.9	44.8	1.87
Dover	51.5	42.4	47.1	44.5	1.81
LONDON	56.7	40.0	48.8	43.8	1.88
Oxford	55.1	39.3	45.0	42.7	1.79
Cambridge	56.2	37.7	45.5	43.3	1.76
Yarmouth	40.5	40.4	45.1	43.4	1.80

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



GENERAL SITUATION AT 8 A.M.

PRESSURE

Highest, 30.3 ins: and upwards, over the north of Sweden.
 Lowest, 29.5 ins: and less, in a large but somewhat shallow depression lying to the westward of our Islands.
 Gradients moderate or slight generally. Barometer rising over Great Britain and also in Germany, but falling elsewhere.

TEMPERATURE

Highest, 59° at Berlin, 56° at Perpignan, 55° at Belfast, 54° at Lisbon, 53° at Nicolson, 52° at Christiania and Helsingfors, and 51° at Copenhagen, Rilly and Kiev.
 Lowest, 36° at Helsingfors, 37° at Haparanda, 41° at Umeå, 42° at Belmullet, 43° at Tromsø and Rotherhithe, and 43° at Malin Head and Mullaghmore.

WIND

S over our Islands and the west and north of France; moderate or fresh in force in most places, but strong at the mouth of the Channel.
 Moderate to strong from the SE. or E. on the eastern shores of the North Sea.
 Calms or light variable airs are reported over South Germany and the east of France, and light NE breeze in the south of France.

WEATHER

Fine generally, but dull in the south of France and stormy in the southwest of our Islands.
 Showers fell yesterday in nearly all parts of Western Europe, and thunderstorms occurred at Rotherhithe and Cambridge.

SEA

Rough at Sunning Head and Bally, but moderate to smooth elsewhere.

PROBABLE CHANGES IN SYSTEM NOW PREVALENT

The motion of the cirrus clouds in London and at Jersey seems to indicate the approach of slight disturbances from the southward, and unsettled showery weather is therefore likely to continue, with thunder locally.

FORECASTS

For the 24 hours ending at NOON on 30th APRIL 1889.

DISTRICTS.

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

FORECASTS.

S^w or SE^w winds, moderate; fair generally, but perhaps local showers.
 S^w winds, moderate or fresh; changeable, some showers, thunder locally.

DISTRICTS.

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

FORECASTS.

Same as Nos 0 and 1.

SE^w and S^w winds freshening, unsettled, some showers, thunder locally.

S^w and SW^w winds, moderate, changeable, some showers.

WARNINGS

The SOUTH CONE has been lowered this morning in districts 6, 9, and 10, but is still flying in districts 7 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.	Dry.	Wet.	Wind.	Wes.	Sea.		Bar.	Dry.	Wet.	Wind.	Wes.	Sea.
Skudesnaes ...	30.03	46	44	W 2	0	2	Holyhead ...	29.57	47	45	SSW 5	0	5
Sumburgh Head ...							Valencia ...						
Stornoway ...	29.52	54	51	SE 5	0	4	Scilly ...						
Aberdeen ...							Jersey ...	29.78	50	48	WSW 3	0	3
Shields ...							Dungeness ...	29.77	52	50	SSW 4	6c	3
Ardrossan ...							London ...						*
Malin Head ...	29.43	45	45	SSE 5	0	3	Yarmouth ...						
Mullaghmore ...							Rochefort ...	30.00	56	52	SW 5	0	2
Belmullet ...	29.48	50	46	WNW 2	6c	*							

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

The reports for yesterday morning showed that pressure was high (30.0 ins. to 30.5 ins.) over northern Europe, and somewhat high (30.0 ins. to 30.1 ins.) over Spain and Portugal; but that it was low (29.6 ins. and less) over Ireland, 29.7 ins. and less, over Transylvania and 29.9 ins. and less, over the northern parts of the Mediterranean. The wind was consequently E⁴ over the Baltic and Germany, SE⁴ over the North Sea and north of England, S⁴ in the north of Scotland and South of England. On our southwestern coasts and over the Bay of Biscay it was W⁴, while over France, the Mediterranean and southeastern Europe it varied greatly. Over the greater part of Europe, the weather was fine, but in the British Islands and their neighbourhood it was very changeable - showers of rain and hail alternately, with intervals of clear sky, while off the east of Scotland a thick wet fog was reported. Temperature was not much below the freezing point even in Lapland and on the shores of the White Sea, and was well above 50° in Austria, southern Russia and many parts of France and Spain. The lowest morning readings were 30° at Archangel, 31° at Haparanda, 34° at Moscow, 36° at Parsonstown, 37° at Niopis and St. Petersburg, 41° at Helsingfors and Stockholm, 42° at Aberdeen; the highest were 64° at La Calle, 61° at Brindisi, Cagliari and Barcelona, 54° at Buda Pesth, 56° at Nice, 54° at Odessa, Legina, Nemours, Lisbon, Berlin and Brussels, 53° at Jersey and Breslau, 52° at Paris; throughout Great Britain and Ireland it was below 50°. Later on showery weather continued prevalent in our Islands, a thunderstorm occurred at Roche's Point, and temperature fell temporarily at our southwestern stations.

SUMMARY OF CHANGES IN THE WEATHER OVER THE BRITISH ISLANDS AND THEIR NEIGHBOURHOOD FROM THE 21ST TO THE 27TH APRIL 1889.

During the earlier part of this week barometric pressure was highest over southern and central Europe, and lowest in the low-pressure systems which lay off the northwestern coasts of the British Islands. The wind was consequently SW⁴ to S⁴ over the United Kingdom and neighbourhood, moderate to strong in force, and the weather (which had previously been very fine) was becoming showery, with intervals of bright sunshine. On April 23rd, however, conditions became more complex; the high-pressure area became located over the Spanish Peninsula, and a well-marked depression which at 8 a.m. lay off our northwestern coasts, travelled steadily in a southeasterly direction, and passing directly over England, reached the Netherlands by the morning of the 25th, whence it passed eastwards to north Germany. The changes of wind and temperature which accompanied this disturbance, were, of course, considerable, the rainfall large and general, but as the system passed off the sky cleared and a sharp frost occurred on the grass at the English stations. On the 26th another, complex, depression appeared off our western coasts, and began to spread over us, so that while the wind shifted to the SWnd and Snd generally, temperature rose, and showers again became prevalent in all districts.

EXPLANATION OF COLUMNS GIVEN ON PAGE 1.

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

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

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

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DAILY WEATHER REPORT.

for Tuesday, 30th April, 1889.
Issued by the Meteorological Office, 63 Victoria Street, London. R. H. SCOTT, Secretary.

STATIONS.	+ YESTERDAY EVENING.					8 A.M. TO DAY.										PAST 24 HOURS.		
	Barometer at 32° F. and Sea Level.	Temp. in Shade.	WIND.		Weather.	BAROMETER.		SHADE TEMP.			WIND.		Weather.	Sea. (0 to 9.)	SHADE TEMP.		Amount of Rainfall.	
			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 ..	30.40	38	NE	2	b	30.32	- .07	40	38	+ .3	N	2	b	*	46	21	-	
Hernösand ...	30.34	38	Z	0	b	30.34	- .05	41	37	+ .5	Z	0	b	*	57	23	-	
Stockholm ...	30.23	42	Z	0	b	30.21	- .07	46	39	+ .2	Z	0	b	*	55	30	-	
Wisby ...	30.20	41	SE	4	b	30.18	+ .01	40	36	- .8	N	4	b	*	61	36	-	
Bodö ...	30.17	44	E	2	b	30.26	+ .05	48	40	- .2	ENE	4	b	2	58	41	-	
Christiansund...	30.05	52	WSW	6	b	30.18	+ .15	49	45	- .3	ENE	2	b	1	63	41	-	
Skudesnaes ...	30.05	45	Z	0	o	30.10	+ .16	49	46	+ .3	ENE	4	o	3	?	43	0.08	
Christiania Fjord (Færd)	30.10	50	ENE	2	o	30.19	+ .02	46	44	+ .5	E	2	c	1	50	?	-	
Skagen (The Scaw)	30.06	49	S	2	c	30.13	+ .07	47	43	+ .3	SE	2	b	1	55	?	-	
Fanö ...	30.02	46	NW	1	bc	29.96	+ .04	47	45	+ .1	E	4	c	*	59	45	-	
BRITISH ISLANDS.																		
Sumburgh Head	29.84	45	SE	3	bc	30.05	+ .37	42	41	- .2	SE	3	o	4	48	40	-	
Sornoway ..	29.69	47	SE	4	c	29.83	+ .32	49	47	+ .3	SE	4	o	4	51	39	0.04	
Wick ...	29.79	50	S	4	c	29.96	+ .33	47	45	+ .1	S	4	bc	3	54	42	0.01	
Nairn ...	29.74	51	SEE	3	b	29.88	+ .29	48	45	0	ESE	2	b	1	58	35	-	
Aberdeen...	29.84	45	SE	4	b	29.97	+ .27	42	42	- .1	SE	3	b	3	50	40	-	
Leith ...	29.79	51	WSW	3	c	29.86	+ .16	49	45	0	E	4	b	*	56	37	-	
Shields ...	29.82	47	SE	4	c	29.83	+ .06	44	43	- .3	NE	3	o	3	55	41	0.01	
Spurn Head ...	29.85	47	ESE	5	b	29.72	- .12	46	45	- .2	ENE	5	r	4	58	44	0.02	
York ...	29.73	56	S	3	b	29.74	- .03	49	45	+ .3	E	2	o	*	58	41	-	
Loughborough	29.82	56	SEE	2	b	29.67	- .16	49	48	+ .2	E	3	op	*	59	40	-	
Ardrossan ...	29.72	49	SE	4	b	29.76	+ .11	49	46	+ .2	E	3	b	2	49	39	0.03	
Malin Head ...	29.59	48	SEE	5	bqph	29.64	+ .10	46	44	+ .3	SE	5	cm	3	52	42	0.06	
Mullaghmore ...	29.55	49	SE	3	bcv	29.54	0	48	44	+ .5	ESE	5	cm	3	51	42	0.14	
Belmullet ...	29.56	49	NE	3	c	29.50	0	46	45	+ .4	ESE	6	o	*	52	41	0.11	
Donaghadee ...	29.71	48	S	3	b	29.68	+ .02	47	46	+ .2	SE	6	c	4	50	44	0.02	
GERMANY.																		
Barrow-in-Furness	29.78	45	S	3	bc	29.71	0	46	42	+ .4	NE	4	c	*	53	42	0.04	
Liverpool (Bidston)	29.76	52	SEE	1	bc	29.64	- .13	50	45	+ .4	E	4	o	3	55	43	0.04	
Holyhead ...	29.73	50	SEE	4	cp	29.59	- .11	50	46	+ .3	ENE	5	bc	5	54	43	0.01	
Parsonstown ...	29.58	51	SE	2	o	29.48	- .13	49	46	+ .5	NE	3	o	*	55	43	0.13	
Valencia ...	29.47	48	ESE	3	c	29.25	- .29	51	48	+ .5	ESE	5	bcu	6	51	40	0.41	
Roche's Point...	29.54	46	S	5	r	29.32	- .29	49	48	+ .7	SE	8	r	5	52	42	0.90	
Pembroke ...	29.67	48	SEE	5	c	29.43	- .27	48	47	+ .1	ESE	7	c	4	50	43	0.02	
Scilly ...	29.54	50	SEE	7	oq	29.29	- .39	48	46	- .3	ESE	6	oq	6	54	45	0.38	
Prawle Point ...	29.72	49	SEE	5	bc	29.43	- .37	49	48	+ .1	ESE	6	oq	5	52	44	-	
Jersey ...	29.76	55	E	4	bc	29.50	- .38	50	49	0	ESE	5	oq	4	57	48	-	
FRANCE & NETHERLANDS.																		
Hurst Castle ...	29.81	51	SE	3	bc	29.54	- .33	51	50	+ .2	ESE	5	c	3	53	47	-	
Dungeness ...	29.87	51	SEE	3	bc	29.66	- .26	48	47	0	E	4	4	3	57	47	0.02	
London ...	29.85	54	S	2	b	29.59	- .30	50	49	+ .1	E	2	o	*	58	44	0.01	
Oxford ...	29.84	48	SEE	1	b	29.59	- .27	49	48	+ .2	E	1	o	*	56	43	0.01	
Cambridge ...	29.84	54	S	1	b	29.63	- .25	52	51	+ .4	E	1	p	*	60	42	-	
Yarmouth ...	29.91	47	SE	4	b	29.70	- .18	47	46	- .1	E	4	cqm	4	49	44	0.08	
Cuxhaven ...	29.97	49	N	2	m	29.92	+ .02	51	50	0	E	4	b	*	57	48	-	
Berlin ...	29.98	60	ESE	2	b	29.96	- .02	57	52	- .2	ENE	3	b	*	70	50	-	
Wiesbaden ...	*	*	*	*	*	29.79	- .18	59	54	+ .6	NW	1	o	*	66	46	0.04	
Munich ...	29.91	54	NE	2	bc	29.83	- .16	53	49	+ .1	E	3	c	*	63	39	-	
PENINSULA.																		
The Helder ...	29.97	48	ENE	1	c	29.74	- .18	52	50	+ .3	E	2	c	3	52	48	0.12	
Brussels 9 A.M.	*	*	*	*	*	29.69	- .28	55	53	+ .3	SE	1	o	*	61	51	-	
Cape Gris Nez...	?	48	NE	2	bc	?	?	52	49	+ .5	SE	3	o	2	55	46	-	
Paris ...	29.84	57	NE	1	o	29.66	- .30	52	50	+ .6	S	2	o	*	60	?	0.08	
Brest ...	?	52	S	7	c	?	?	49	45	- .1	S	5	o	5	55	41	0.67	
Lorient ...	29.71	52	S	5	bc	29.47	- .39	50	47	+ .2	SSW	4	o	5	55	46	0.08	
Beaufort ...	29.82	50	SE	3	o	29.63	- .34	54	52	+ .4	WSW	5	o	3	70	45	-	
Belfort ...	29.82	59	W	1	o	29.76	- .18	53	52	- .2	N	1	o	*	68	36	0.39	
Lyons ...	29.84	55	ESE	2	o	29.78	- .17	50	47	0	S	2	r	*	57	50	0.16	
Nice ...	29.96	54	SSW	1	m	29.89	- .09	50	50	- .1	ENE	4	r	2	63	48	0.32	
Perpignan ...	29.81	56	SE	3	o	29.72	- .21	58	54	+ .2	SE	1	b	*	64	50	0.04	
Barritz ...	29.73	59	ESE	4	c	29.72	- .22	54	51	+ .4	SEE	5	r	3	63	?	0.08	
Corunna ...	*	*	*	*	*													
Lisbon ...	29.92	55	S	6	r	29.92	- .10	56	55	+ .2	SSW	2	o	2	59	57	0.24	

For Explanation of Columns, see p. 4.

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

WEATHER CHARTS

for 8 a.m. on

Tuesday, 30th April

1889.

BAROMETER, WIND & SEA.

(Explanation of Map)

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

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

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

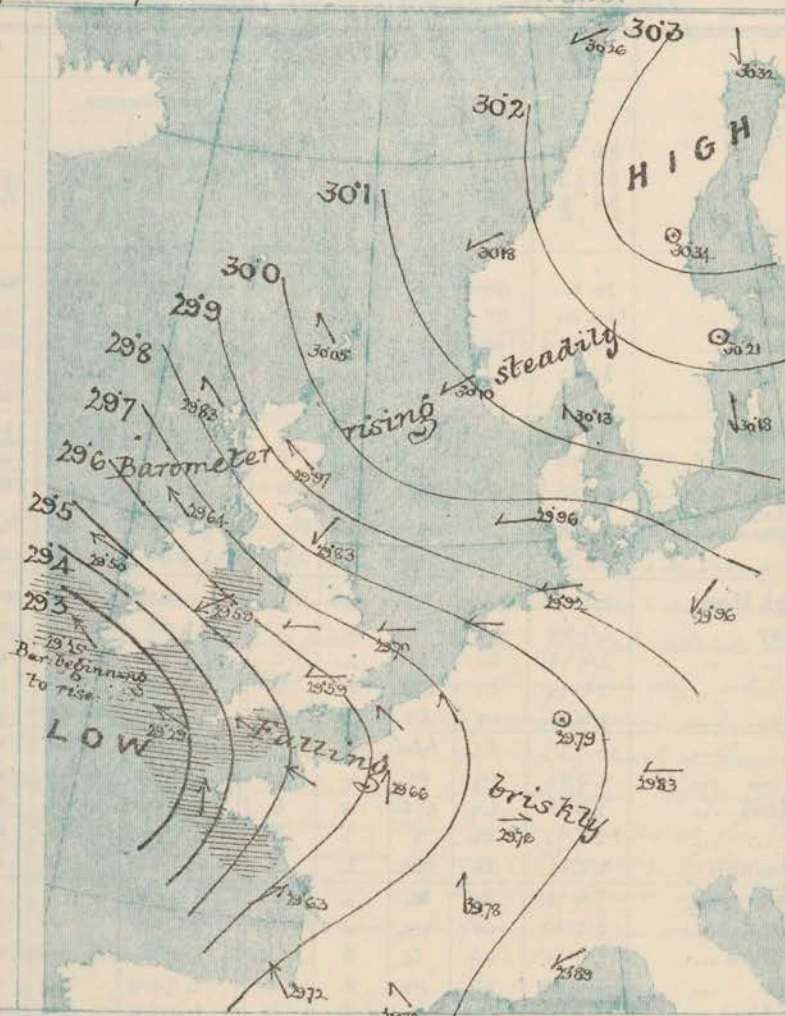
Sea Disturbance — where considerable is shown thus:

— Rough — High

MEAN HEIGHT of the BAROMETER

at 8 a.m. for the month of April.
During the 15 Years 1871 — 1885.

STATIONS.	MEAN READINGS.
Sumburgh Head	29.849
Stornoway	29.821
Wick	29.853
Nairn	29.853
Aberdeen	29.862
Leith	29.865
Shields	29.870
York	29.877
Loughborough	29.878
Ardrossan	29.887
Donaghadee	29.853
Holyhead	29.851
Liverpool	29.864
Parsonstown	29.853
Valencia	29.835
Roche's Point	29.838
Pembroke	29.844
Scilly	29.849
Jersey	29.867
Hurst Castle	29.867
Dover	29.866
LONDON	29.877
Oxford	29.882
Cambridge	29.879
Yarmouth	29.876



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 April.

STATIONS	TEMPERATURE.				RAINFALL. (Inches.)
	Daily Max.	Daily Min.	at 8 a.m.		
			Dry.	Wet.	
Sumburgh Head	46.3	37.3	41.9	40.5	2.16
Stornoway	49.3	37.6	44.1	42.3	2.51
Wick	49.2	37.4	43.2	41.2	1.56
Nairn	51.5	37.9	43.1	40.6	1.23
Aberdeen	49.6	38.5	43.4	40.9	2.23
Leith	52.6	38.2	44.2	42.1	1.65
Shields	49.2	39.2	43.8	41.7	1.94
York	54.1	37.8	44.1	42.0	1.86
Loughborough	55.7	38.3	45.1	42.6	1.77
Ardrossan	52.1	39.9	44.6	42.2	2.23
Donaghadee	51.8	40.1	44.8	43.2	2.02
Holyhead	51.9	42.4	46.2	44.2	1.86
Liverpool	53.0	40.7	45.5	42.6	1.56
Parsonstown	55.0	38.8	45.7	43.0	2.15
Valencia	54.8	42.9	48.4	45.9	4.01
Roche's Point	54.2	42.4	47.0	44.9	3.43
Pembroke	50.8	42.1	45.6	43.6	2.10
Scilly	52.5	45.0	49.0	47.1	2.45
Jersey	54.6	43.6	49.0	46.4	2.04
Hurst Castle	52.3	41.4	45.9	44.6	1.87
Dover	51.5	42.4	47.1	44.5	1.81
LONDON	56.7	40.0	46.8	43.8	1.86
Oxford	55.1	39.3	45.0	42.7	1.79
Cambridge	55.2	37.7	45.5	43.3	1.76
Yarmouth	49.5	40.4	45.1	43.4	1.80

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



GENERAL SITUATION AT 8 A.M.

PRESSURE

Highest, 30.3 ins. and upwards, over the north of Sweden; 29.9 ins. and upwards over the south of Portugal.
 Lowest, 29.3 ins. and less, in a depression lying off our extreme south-west coast.
 Gradients steep over the south-west of our Islands and the north-west of France, but moderate or slight elsewhere.
 Barometer falling at nearly all but the Scandinavian and Scotch stations, but beginning to rise again at Valencia.

TEMPERATURE

Highest, 53° at Wiesbaden, 58° at Perpignan, 57° at Berlin, 56° at Liebow, 55° at Brussels, and 54° at Rochester and Bismarck.
 Lowest, 40° at Haparanda and Utsky, 41° at Hirmöand, 42° at Lumburgh Head and Aberdeen, 44° at Shields, and 46° at Stockholm, Freder. Spang, H. Malm, H. and Bismarck.
 The highest readings registered over our Islands yesterday were 60° at Cambridge, and 59° at Loughborough, but at Rochester and Berlin the thermometer rose to 70°.

WIND

E or SE at all but the French and Swedish stations; strong to a gale in force in the south-west of our Islands.
 In Sweden calms or N breezes are reported, while in France the wind is light to fresh from the S.W.
 During the past night a whole gale from the SEth has been experienced at Scilly.

WEATHER

Dull and showery over France and the southern parts of the United Kingdom, but fine in Scotland, Scandinavia, Denmark and Germany.
 Since yesterday morning 0.9 in. of rain has fallen at Rochestert and 0.7 in. at Bristol. A thunderstorm occurred yesterday at Liverpool.

SEA

Rough on all our south-west coast, but moderate to smooth elsewhere.

PROBABLE CHANGES IN SYSTEM NOW PREVALENT

The depression in the south-west seems likely to travel in an easterly or a southeasterly direction towards France, and increasing winds from the End are probable over England, with a continuance of cloudy showery weather in the more southern districts.

FORECASTS

for the 24 hours ending at NOON on 1st MAY 1889.

DISTRICTS.

FORECASTS.

0	SCOTLAND NORTH	SE th and E th winds, freshening; fair generally, but local showers.
1	SCOTLAND EAST	
2	ENGLAND N.E.	E th winds, increasing in force; changeable, rain at times.
3	ENGLAND EAST	
4	MIDLAND COUNTIES	
5	ENGLAND SOUTH	

DISTRICTS.

FORECASTS.

6	SCOTLAND WEST	E th winds, freshening considerably; fair generally, but local showers.
7	ENGLAND N.W.	
8	ENGLAND S.W.	E th strong winds and gales; squally, rain at times.
9	IRELAND NORTH	E th and SE th winds, strong to a gale at first but moderating later; fair generally, but some showers.
10	IRELAND SOUTH	

WARNINGS

The SOUTH CONE was hoisted last evening in districts 3, 5, 8, 9, 10, and parts of 2 and 7.

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.	Dry.	Wet.	Wind.	Wes.	Sea.		Bar.	Dry.	Wet.	Wind.	Wes.	Sea.
Skudesnaes ...	29.99	47	42	ESE 6	0	4	Holyhead ...	29.72	52	48	S 4	6	4
Sumburgh Head ...	29.77	47	46	SE 3	c	6	Valencia ...	29.52	49	46	SE 3	cp	3
Stornoway ...	29.63	51	47	SW 5	bc	4	Sailly ...	29.63	51	49	SE 6	cq	6
Aberdeen ...	29.79	49	45	SE 4	6	4	Jersey ...	29.82	56	50	ESE 3	6	3
Shields ...	29.78	54	47	S 3	c	2	Dungeness ...	29.90	54	50	SW 3	bc	1
Ardrossan ...	29.72	48	47	SE 4	r	3	London ...	29.87	56	46	S 4	bcv	*
Malin Head ...	29.57	51	47	SE 5	bc	3	Yarmouth ...	29.90	48	46	ESE 4	6	3
Mullaghmore ...	29.56	49	46	SE 4	cp	2	Rocheport ...	29.91	66	55	SE 2	c	2
Belmullet ...	29.54	52	48	SW 2	bcp	*							

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

The reports for yesterday morning showed that pressure continued highest (30.0 ins. to 30.4 ins.) over Scandinavia and Northern Russia and that it was as high as 30.0 ins. over the southwestern part of Spain and also over Italy. From these regions it decreased to 29.5 ins. and less off our extreme northwestern coast and to 29.9 ins. and less over Southern Russia. SW winds prevailed over Spain, the Bay of Biscay and north of France, S in the British Isles, and SE at the Norwegian and Danish stations; over Central Europe the wind was light and very variable. The weather was fine in most places, but changeable and showery in the west of our Islands and dull in the south of Russia. In London the sky had a showery appearance, large quantities of Cum being observed coming from southwest and south. Temperature had risen in the north, and was above the freezing point at all stations. The lowest individual values were 36° at Helsingfors and Moscow, 37° at Haparanda, 40° at Humanaetadt, 44° at the Scaw and Harrowtown, 46° at Aberdeen and 47° at Shields. It was above 60° at a few of the Mediterranean stations only, the highest values reported being 63° at Cagliari and La Calle, 61° at Rhindisi and Amale, 60° at Nemours, Barcelona, and Trieste, 59° at Berlin, 57° at Buda Pesth, 55° at Lyons, 53° at Corunna, and 52° at Brussels.

During the day fine bright weather prevailed over the eastern half of England, but still later a depression began to approach our southwestern coast, and showery weather spread over us from the westward.

EXPLANATION OF COLUMNS GIVEN ON PAGE 1.

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

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

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

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

CORRECTIONS AND ADDITIONS TO THE REPORTS FOR APRIL 1889.

1. REPORTS RECEIVED TOO LATE FOR INSERTION DAILY.

DATE.	STATIONS.	† YESTERDAY EVENING.					8 A.M. TO DAY.										PAST 24 HOURS.		
		Barometer at 32° F. and Sea Level.	Temp. in Shade.	WIND.		Weather.	BAROMETER.		SHADE TEMP.			WIND.		Weather.	Sea. (0 to 9.)	SHADE TEMP.		Amount of Rainfall.	
				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.		
1	Corunna...	*	*	*	*	*	30.18	-.07	53	50	0	N	6	c	6	59	?	?	
2	Belfort.....	29.93	39	W	1	c	29.82	-.06	35	-	-10	W	3	S	*	48	35	0.08	
	Corunna...	*	*	*	*	*	30.34	+1.16	54	49	-1	NE	5	bc	6	55	46	-	
3	Lorient.....	30.23	53	NW	4	c	30.14	-.03	49	-	+3	NW	2	c	2	54	43	-	
	Corunna...	*	*	*	*	*	? 30.18	-.16	54	51	0	NE	4	b	4	57	48	-	
4	Belfort....	29.83	33	W	1	b	29.68	-.07	35	34	-1	W	1	S	*	42	30	0.08	
	Corunna...	*	*	*	*	*	29.92	-.26	53	50	-1	WNW	4	0	5	59	48	0.12	
6	Corunna...	*	*	*	*	*	29.90	-.02	54	-	+1	WNW	6	bc	6	57	46	-	
8	Corunna...	*	*	*	*	*	29.65	+1.36	51	50	0	SW	5	0	6	57	32	0.32	
9	Corunna...	*	*	*	*	*	29.77	+1.12	51	48	0	WNW	7	r	7	59	43	0.08	
10	Bodo.....	30.00	34	Z	0	b	30.01	.06	?	?	?	E	2	0	1	34	30	-	
	Christiansund	29.82	41	Z	0	b	29.88	+1.14	37	36	0	ESE	2	b	1	46	34	-	
	Corunna...	*	*	*	*	*	29.81	-.46	45	43	-6	W	4	S	6	55	43	0.32	
11	The Helder	29.56	44	SEW	1	0	29.60	+0.04	43	-	+4	ESE	1	c	1	46	39	0.12	
	Brussels...	*	*	*	*	*	29.58	-.09	45	-	-2	ESE	1	0	*	51	42	0.04	
	Corunna...	*	*	*	*	*	29.67	+1.36	49	46	+4	WSW	3	c	6	54	45	-	
12	Corunna...	*	*	*	*	*	29.77	-.10	51	48	+2	W	1	bc	4	57	43	0.20	
13	Nice.....	29.62	53	SE	3	c	29.60	-.02	48	-	+3	NE	2	c	1	59	45	-	
15	Corunna...	*	*	*	*	*	29.62	-.02	49	46	-2	ENE	2	0	3	57	43	0.24	
17	Corunna...	*	*	*	*	*	30.02	+1.22	50	47	-2	NE	6	c	6	57	43	-	
18	Corunna...	*	*	*	*	*	30.18	+1.16	52	49	+2	ENE	5	f	5	57	46	-	
20	Corunna...	*	*	*	*	*	30.37	+1.16	55	53	+3	WNW	8	b	2	64	46	-	
21	Cape Gris Nez	30.11	47	W	5	b	29.99	?	48	-	-2	SW	3	c	4	52	45	-	
22	Corunna...	*	*	*	*	*	30.04	-.19	50	49	-3	NE	4	b	7	61	45	0.47	
23	Corunna...	*	*	*	*	*	30.15	+1.1	53	51	+3	E	1	b	7	59	41	-	
24	Bodo.....	29.63	35	SW	4	c	29.84	+1.50	34	32	-3	SW	4	c	2	37	30	-	
	Christiansund	29.78	39	ESE	1	bc	29.92	+1.38	39	36	-2	ESE	1	bc	3	?	32	0.08	
	Corunna...	*	*	*	*	*	30.15	.00	54	52	+1	WSW	3	0	3	59	48	0.24	
25	Brussels...	*	*	*	*	*	29.66	-.01	45	43	-2	S	1	0	*	55	42	0.16	
	Corunna...	*	*	*	*	*	30.19	+1.04	56	53	+2	WNW	2	c	4	59	50	-	
26	Corunna...	*	*	*	*	*	30.19	.00	52	49	-4	E	1	b	4	63	42	-	
29	Corunna...	*	*	*	*	*	29.88	-.16	53	49	0	SSW	2	b	4	59	48	0.08	
30	Corunna...	*	*	*	*	*	29.74	-.14	52	48	-1	SW	6	bc	4	59	45	0.32	

NOTICE.—The Table containing the "Summary of Meteorological Observations made at the Telegraphic" was lithographed on the back of the monthly sheet of "Corrections and Additions", is now issued in a separate form for it in writing to the Secretary, Meteorological Office, 63 Victoria St. SW.

2. CORRECTIONS.

DATE.	STATIONS.	† YESTERDAY EVENING.					8 A.M. TO DAY.								PAST 24 HOURS.			
		Barometer at 32° F. and Sea Level.	Temp. in Shade.	WIND.		Weather.	BAROMETER.		SHADE TEMP.			WIND.		Weather.	Sea. (0 to 9.)	SHADE TEMP.		Amount of Rainfall.
				Dir.	Force. (0 to 12.)		Reading at 8 a.m. and Sea Level.	Difference from 8 a.m. yesterday.	Dry.	Wet.	Difference from 8 a.m. yesterday.	Dir.	Force. (0 to 12.)			Max.	Min.	
4	Donaghadee	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.25
-	Jersey	29.82	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	Cape Gris Nez	-	? 40	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	Mullaghmore 2pm	-	-	-	-	-	29.32	-	-	-	-	-	-	-	-	-	-	-
6	Aberdeen	29.76	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
8	Shields	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.25
-	Glasgow	-	-	-	-	-	-	-	40	-	1	-	-	-	-	-	-	-
9	Spurn Head	-	-	-	-	-	-	-	-	40	-	-	-	-	-	-	-	-
-	Holyhead	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1.18
10	Valencia	-	-	-	-	-	-	-	-	-	-	20	0	-	-	-	-	-
-	Belmullet 2pm	-	-	-	-	-	-	-	44	-	-	-	-	-	-	-	-	-
11	Wick	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.55
-	Nairn	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.53
-	Belmullet	-	-	-	-	-	-	-	-	-	-	-	-	-	44	-	-	-
-	Valencia	-	-	-	-	-	-	-	-	-	-	-	-	-	-	41	-	-
13	Isle	-	-	-	-	-	-	-	-	-	-	-	-	-	-	?	-	-
-	Holyhead	-	-	-	-	-	-	-	-	-	-	-	-	-	52	-	-	-
-	Mullaghmore 2pm	-	-	-	-	-	-	-	-	-	-	W. W.	-	-	-	-	-	-
14	Nairn	-	-	-	-	-	-	-	-	-	-	-	-	-	43	-	-	-
-	Scilly	-	-	-	-	-	-	-	-	-	-	-	-	-	-	43	-	-
15	Spurn Head	-	-	-	-	-	29.40	+ 17	-	-	-	-	-	-	-	-	-	-
16	York	-	-	-	-	-	-	-	-	41	-	-	-	-	-	-	-	-
17	Jersey	-	-	-	-	-	29.99	+ 02	-	-	-	-	-	-	-	-	-	-
20	Loughborough	-	-	W. S. W.	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	Holyhead	-	-	-	-	-	-	-	49	-	+ 2	-	-	-	-	-	-	-
24	Dung.	-	-	-	-	-	-	-	-	-	-	-	-	-	52	-	-	0.04
25	Dungeneess	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.10
-	London	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.23
26	Mullaghmore 2pm	-	-	-	-	-	-	-	-	-	-	-	-	-	4	-	-	-
27	Mullaghmore	-	49	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
28	Nairn	-	-	-	-	-	-	-	-	-	-	-	-	-	-	40	-	-
-	Parsonstown	-	-	-	-	-	29.55	- 35	-	-	-	-	-	-	-	-	-	-
29	Wick	29.57	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Reporting Stations in the British Islands" during the various months, and which, until the end of the year 1888 form. A copy will be forwarded gratuitously to those Subscribers to the Daily Weather Report who apply