

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 *Friday, 1st March* 1889.
 Issued by the Meteorological Office 63 Victoria Street, London. R.H. SCOTT, Secretary.

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STATIONS.	† YESTERDAY EVENING.					8 A.M. TO DAY.										PAST 24 HOURS.		
	Barometer at 32° F. and Sea Level.	Temp. in Shade.	WIND.		Weather.	BAROMETER.		SHADE TEMP.			WIND.		Sea. (0 to 9.)	SHADE TEMP.		Amount of Falls.		
			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	22	N	2	O	30.47	- 04	20	18	+ 3	NE	2	C	*	25	7	-
	Hernösand ...	30.39	21	NE	4	O	30.40	+ 05	19	18	+ 4	NE	4	S	*	21	12	0.04
	Stockholm ...	30.21	16	NNE	2	O	30.16	+ 02	16	15	- 5	N	2	O	*	28	16	-
	Wisby ...	30.03	23	NNE	4	O	30.03	+ 14	23	22	- 4	ENE	4	S	*	30	21	0.39
	Bodö ...	30.47	16	E	2	b	30.46	- 06	19	17	+ 2	ENE	4	b	2	19	14	-
	Christiansund...	30.25	26	ESE	3	b	30.17	- 05	22	20	- 5	ESE	2	b	2	30	19	-
	Skudesnaes ...	30.20	27	NNE	2	bc	30.20	+ 05	26	25	- 1	ESE	2	S	3	34	25	-
	Christiania Fjord (Fjord)	30.23	22	NNE	7	c	30.18	+ 03	21	18	- 2	NE	6	O	2	25	16	-
	Skagen (The Seaw)	30.15	20	E	6	bc	30.10	+ 05	20	19	- 3	E	4	O	3	37	19	-
	Fanö ...	29.99	25	E	4	S	29.99	+ 10	22	22	- 5	ENE	4	O	*	28	21	0.04
BRITISH ISLANDS.	Sumburgh Head	30.15	34	SE	3	O	30.14	+ 13	33	32	- 2	N	1	S	4	36	31	0.01
	Stornoway ...	29.98	37	SE	5	bc	30.08	+ 22	34	33	- 2	E	6	bc	5	39	32	-
	Wick ...	29.97	35	ESE	6	O	30.13	+ 20	35	33	- 2	ESE	3	O	3	37	32	0.12
	Nairn ...	30.04	30	E	1	b	30.08	+ 19	31	30	+ 4	E	1	O	1	36	25	0.02
	Aberdeen...	30.06	34	E	6	cqsp	30.10	+ 17	33	32	- 1	E	5	ogsp	6	38	31	0.03
	Leith ...	29.96	34	E	2	C	30.05	+ 22	31	30	- 3	ESE	2	C	*	37	28	0.07
	Shields ...	29.94	35	E	3	C	30.00	+ 16	33	33	- 3	E	2	C	5	38	30	0.03
	Spurn Head ...	29.83	34	E	6	S	29.91	+ 18	33	32	0	ENE	4	S	4	36	31	0.03
	York ...	29.85	32	E	1	bc	29.93	+ 17	29	28	- 3	NNE	1	O	*	38	25	0.09
	Loughborough	29.85	32	NE	2	C	29.93	+ 19	30	29	- 1	NE	1	ogsp	*	38	29	0.04
GERMANY.	Ardrossan ...	29.94	35	ENE	3	O	30.03	+ 20	31	31	- 3	ENE	2	bm	1	39	28	-
	Malin Head ...	29.85	35	SE	3	bcpq	29.96	+ 21	32	32	- 2	SSE	4	b	2	36	32	-
	Mullaghmore ...	29.81	37	ESE	5	og	29.94	+ 23	34	33	- 1	ESE	5	og	4	39	33	-
	Belmullet ...	29.77	38	SE	3	b	29.90	+ 21	33	32	+ 1	SSE	3	O	*	41	31	-
	Donaghadee ...	29.88	37	SE	4	bc	29.99	+ 24	35	33	- 2	SE	4	O	2	38	34	0.06
	Barrow-in-Furness	29.89	35	NE	3	O	29.97	+ 21	29	28	- 4	NE	2	b	*	39	28	-
	Liverpool (Bidston)	29.88	33	E	1	O	29.96	+ 19	29	28	- 3	ENE	2	b	2	35	28	0.02
	Holyhead ...	29.84	35	E	4	ogm	29.96	+ 23	32	31	- 2	ESE	3	bm	2	38	31	0.01
	Parsonstown ...	29.79	36	2	0	b	29.93	+ 21	30	28	+ 9	2	O	*	42	21	-	
	Valencia ...	29.77	40	WNW	1	bc	29.86	+ 19	37	35	+ 2	SE	1	bm	1	48	33	-
FRANCE & NETHERLANDS.	Roche's Point...	29.76	40	ESE	2	C	29.86	+ 18	38	35	+ 5	ESE	4	cm	4	43	33	0.05
	Pembroke ...	29.81	36	ESE	3	C	29.90	+ 20	31	30	- 2	ENE	4	bc	2	37	30	-
	Scilly ...	29.76	41	ESE	1	bc	29.84	+ 18	39	35	- 1	ENE	2	C	2	46	36	-
	Prawle Point ...	29.80	34	NNE	2	C	29.85	+ 17	32	30	0	N	2	C	2	40	26	-
	Jersey ...	29.75	38	N	2	C	29.81	+ 18	35	33	- 1	NNE	2	ogsp	2	40	34	0.02
	Hurst Castle ...	29.77	35	NNE	4	O	29.84	+ 15	31	31	- 2	NNE	2	oms	1	37	30	0.02
	Dungeness ...	29.71	33	ENE	4	O	29.81	+ 19	34	33	+ 3	E	4	C	3	36	30	0.13
	London ...	29.78	32	NE	2	bc	29.84	+ 17	33	32	+ 2	NE	1	cg	*	36	30	0.04
	Oxford ...	29.87	30	NE	2	S	29.89	+ 17	34	29	+ 3	NE	2	cs	*	36	29	0.01
	Cambridge ...	29.82	31	NE	1	O	29.91	+ 18	31	30	0	NE	1	b	*	38	29	0.01
PENINSULA.	Yarmouth ...	29.77	32	E	6	cqsp	29.87	+ 17	33	32	+ 1	E	4	csp	4	33	30	0.02
	Cuxhaven ...	29.85	29	ENE	5	O	29.90	+ 14	27	26	- 3	NE	5	S	*	30	24	-
	Berlin ...	29.76	25	NE	2	O	29.82	+ 06	24	23	- 1	NE	3	S	*	30	19	-
	Wiesbaden ...	*	*	*	*	*	29.76	+ 15	28	26	+ 2	2	O	S	*	34	2	-
	Munich ...	29.61	23	W	2	S	29.68	+ 18	24	24	+ 2	W	3	S	*	27	21	0.39
	The Helder ...	29.84	31	ENE	4	b	29.90	+ 16	28	27	- 2	E	1	C	2	41	2	-
	Brussels ...	*	*	*	*	*	29.83	+ 20	26	26	+ 2	NNE	3	O	*	35	7	-
	Cape Gris Nez...	?	33	ENE	4	O	?	?	29	28	- 2	ENE	4	O	3	36	28	-
	Paris ...	29.71	31	NNE	2	C	29.77	+ 21	25	?	- 3	SE	1	O	*	33	26	-
	Brest ...	29.84	39	E	1	O	29.84	+ 18	34	33	- 2	ENE	1	O	2	46	32	-
FRANCE & NETHERLANDS.	Lorient ...	29.72	42	NE	3	O	29.81	+ 16	36	33	- 2	NE	2	b	2	46	34	-
	Rochefort ...	29.78	42	NSW	3	O	29.85	+ 15	33	32	- 4	NE	2	f	2	46	28	-
	Belfort ...	29.66	31	W	1	O	29.73	+ 19	28	26	- 3	W	1	S	*	35	24	0.04
	Lyons ...	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Nice ...	29.57	41	W	6	b	29.56	+ 04	36	30	0	NE	4	b	1	50	32	-
	Perpignan ...	29.77	43	NW	3	O	29.80	+ 15	40	36	+ 7	NW	3	b	*	58	32	-
	Biarritz ...	29.76	49	NE	3	O	29.83	+ 21	43	40	- 1	W	5	O	3	50	39	0.16
	Corunna ...	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Lisbon ...	30.03	50	WNW	3	b	30.11	- 26	48	45	- 2	NW	3	bc	4	55	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

Friday, 1st March.

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.

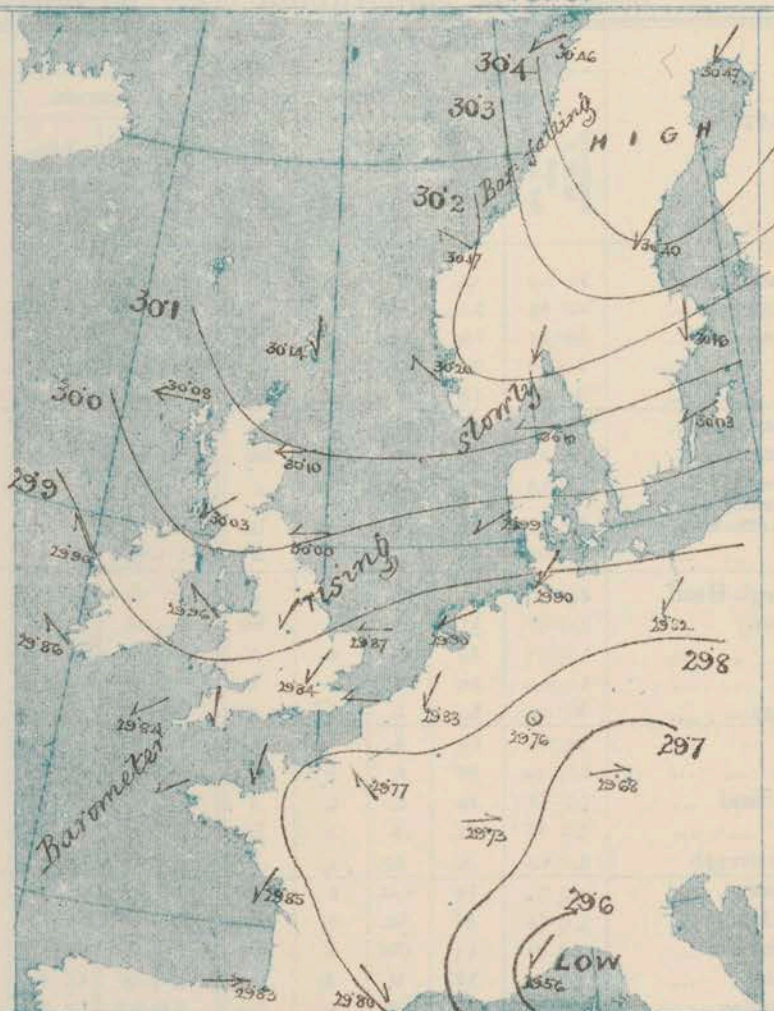
Sea Disturbance — where considerable, is shown thus.

— = Rough. — = High.

MEAN HEIGHT of the BAROMETER

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

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



TEMPERATURE, & WEATHER at 8 A.M., with RAINFALL in PAST 24 HOURS.

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

Weather is shown by Letters of the Beaufort Scale.

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

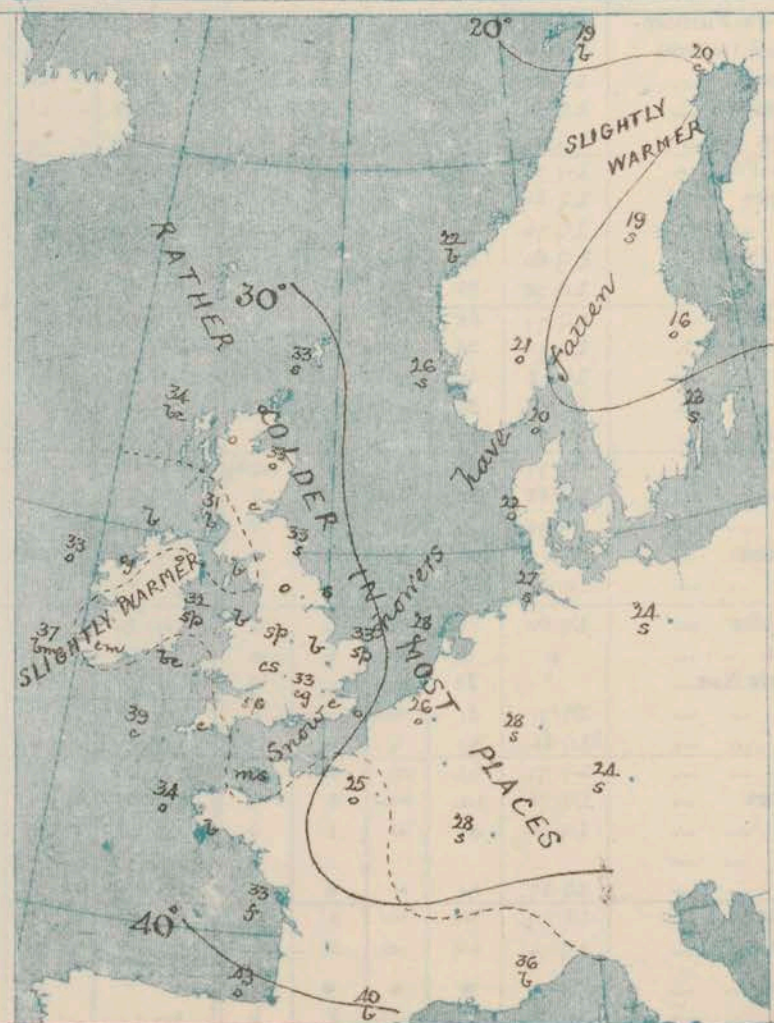
MEANS OF TEMPERATURE IN SHADE.

AND RAINFALL.

for the month of March.

STATIONS.	TEMPERATURE.				RAINFALL. (Inches)
	Daily Max.	Daily Min.	at 8 a.m. Dry	Wet	
Sumburgh Head	42.6	34.0	38.5	37.1	2.92
Stornoway	44.9	34.4	39.2	38.0	3.87
Wick	44.7	33.9	39.1	37.2	1.97
Nairn	45.6	34.2	38.2	36.3	1.72
Aberdeen	45.4	34.7	38.9	36.8	2.24
Leith	48.2	34.6	39.7	37.9	1.86
Shields	45.0	35.4	39.6	38.0	1.60
York	48.9	33.7	38.6	37.1	1.63
Loughborough	49.8	34.3	39.5	37.7	1.47
Ardrossan	46.8	36.6	40.5	38.7	2.59
Donaghadee	47.3	37.1	41.0	39.7	1.99
Holyhead	47.6	39.2	42.5	41.0	2.21
Liverpool	47.3	37.1	40.8	39.7	1.69
Parsonstown	50.1	35.5	41.2	39.6	2.85
Valencia	51.6	40.6	45.4	43.4	4.24
Roche's Point	50.2	40.0	43.8	42.1	3.71
Pembroke	47.1	39.5	42.6	40.8	2.45
Scilly	49.9	43.0	46.5	44.7	2.38
Jersey	49.9	40.5	44.7	42.7	2.32
Hurst Castle	48.3	37.7	41.6	40.7	1.80
Dover	46.9	37.8	41.6	39.9	1.86
LONDON	50.6	35.8	40.6	38.7	1.43
Oxford	49.5	35.3	39.4	37.9	1.52
Cambridge	50.6	33.8	39.2	37.7	1.33
Yarmouth	45.7	35.8	40.8	39.1	1.77

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



GENERAL SITUATION AT 8 A.M.

PRESSURE	<p>Highest, 30.2 ins. to 30.4 ins. over Scandinavia — 29.9 ins. to 30.1 ins. over Spain.</p> <p>Lowest, 29.6 ins. and less, over the southeast of France, 29.7 ins. and less, over South Germany and also off the south of Ireland.</p> <p>Gradients — slight generally. Barometer rising except in the northwest of Norway.</p>
TEMPERATURE	<p>Highest, 48° at Lisbon, 43° at Biarritz, 40° at Perpignan, 39° at Seilly, 37° at Valencia.</p> <p>Lowest, 16° at Stockholm, 13° at Helsingfors and Rode, 20° at the Scars, 24° at Munich and Berlin, 25° at Paris, 26° at Brussels, 29° at York, 30° at Glasgow, and 33° in London.</p> <p>It has risen somewhat in Ireland since yesterday; fallen in most other places.</p>
WIND	<p>Light to moderate in force generally; NE^{ly} over the Baltic, E^{ly} over the North Sea, our east coast, the Channel, and Bay of Biscay, SE^{ly} in Ireland.</p> <p>W^{ly} to NN^{ly} over Spain and the southwest of France.</p>
WEATHER	<p>Fine and bright at some of our western stations and in the east of Norway.</p> <p>Cloudy or overcast elsewhere, with snow over Germany, the eastern shores of the North Sea and many of our eastern and southern stations.</p> <p>The amount of snow measured this morning was slight except at Munich.</p>
SEA	<p>Rather rough on our northern and eastern coasts, moderate in the west, slight or smooth elsewhere.</p>

PROBABLE CHANGES IN SYSTEM NOW PREVALENT

There is no decided indication of any immediate change of weather over our Islands or their neighbourhood.

FORECASTS

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

DISTRICTS.

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

FORECASTS.

E^{ly} or SE^{ly} breezes, light; fair, very cold.

NE^{ly} or E^{ly} breezes, light; fair as a whole and cold, a little snow at times.

DISTRICTS.

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

FORECASTS.


SE^{ly} breezes, moderate; fair, cold.


NE^{ly} breezes, light; fair, cold.

SE^{ly} breezes, moderate; fair, cold.

WARNINGS

NONE ISSUED.

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

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

YESTERDAY'S 2 P.M. REPORTS.

	Bar.	Dry.	Wet.	Wind.	Wea.	Sea.		Bar.	Dry.	Wet.	Wind.	Wea.	Sea.
Skudesnaes ...	30.19	33	27	NNE 4	c	2	Holyhead ...	29.79	38	34	ESE 3	c	2
Sumburgh Head ...	30.01	35	33	SE 4	csp	5	Valencia ...	29.73	45	41	2 0	bcph	0
Stornoway ...	29.95	39	37	SE 5	bc	4	Scilly ...	29.72	43	39	ESE 1	c	2
Aberdeen ...	30.01	37	34	ESE 6	bcq	6	Jersey ...	29.71	38	35	NE 2	0	2
Shields ...	29.88	37	35	E 4	c	4	Dungeness ...	29.67	35	32	E 4	c	4
Ardrossan ...	29.88	38	36	ESE 3	bc	2	London ...	29.74	35	32	ESE 2	c	4
Malin Head ...	29.81	36	36	S 3	b	3	Yarmouth ...	29.73	33	32	E 6	csg	5
Mullaghmore ...	29.77	39	36	ESE 5	og	4	Rochefort ...	29.78	43	37	S 3	0	2
Belmullet ...	29.75	40	38	SSE 4	bc	*							

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

The reports for yesterday morning showed that while the highest pressures of all, 30.5 ins. and upwards, were still found over Lapland, the barometer had risen briskly over the Mediterranean, and a second area of high readings (30.0 ins. and upwards) had appeared over Algeria and the Straits of Gibraltar. The lowest pressures 29.5 ins. and less, were reported in an irregularly shaped area lying over Switzerland, Western Austria, and the northern parts of Italy and the Adriatic, but a small depression with readings below 29.7 ins. was lying over the Baltic Provinces. The wind was moderate to strong from the East or NEnd over Finland, Sweden, the Baltic, Denmark, North Germany and the greater part of England, and SE in Scotland and the north of Ireland. In the west of France, however, light NW^{ly} breezes were reported, and over Spain, the south of France, Italy, and the Mediterranean moderate to strong W^{ly} breezes prevailed, while in Algeria the wind was SW^{ly} or S^{ly}. The weather was fine in the south of Ireland, as well as in Norway, Algeria, and the south of France, but cloudy elsewhere, with snow over England, the east of France, Austria, the Baltic and the Gulf of Finland. Temperature had risen somewhat over the north of Scotland as well as in France, S. Germany and Russia, but fallen elsewhere; readings ranged from between 50° and 60° over the Central and southern parts of the Mediterranean to several degrees below the freezing point over Northern and Central Europe. The highest individual readings were 62° at Laibach, 58° at Cagliari, 57° at Palermo and Malta; 54° at San Fernando and Oran, 53° at Sanguinair, Algiers and Sfax, and 52° at Brindisi and Biskra; the lowest were 11° at Breslau and Warsaw, 13° at Archangel, 15° at Kuopio and Hernikund, 17° at Rode and Naparanda, 18° at Uleaborg, 19° at Helsinki, Moscow, and Neufahrwasser, and 20° at Prague.

In the course of the day the barometer rose slightly over Western Europe, but no material change occurred either 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 *Saturday, 2nd March 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.	BAROMETRE.		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 ..	30.51	5	Z	0	b	30.47	+0.0	1	0	-1.9	Z	0	b	*	25	?		
Hernösand ...	30.52	15	NE	4	S	30.57	+1.7	13	13	-6	NE	4	S	*	21	12		
Stockholm ...	30.29	15	NNE	4	O	30.35	+1.9	12	11	-4	NE	6	S	*	19	?		
Wisby ...	30.14	20	NE	4	S	30.18	+1.5	18	17	-5	ENE	4	S	*	28	?	0.04	
Bodö ...	30.49	20	ENE	4	b	30.46	+0.0	17	14	-2	ENE	4	b	2	27	14		
Christiansund...	30.19	24	ESE	6	b	30.25	+0.8	22	21	0	ESE	2	b	2	37	?		
Skudesnaes ...	30.18	25	SE	5	O	30.26	+0.6	22	19	-4	ESE	6	b	4	27	21		
Christiania Fjord (Færder)	30.16	22	NNE	6	C	30.32	+1.4	17	16	-4	NNE	6	O	2	23	14		
Skagen (The Scaw)	30.17	22	E	4	b	30.21	+1.1	19	18	-4	E	5	O	3	23	19		
Fanö ...	30.04	23	ENE	4	b	30.07	+0.8	22	21	0	ENE	4	C	*	27	21		
BRITISH ISLANDS.																		
Sumburgh Head	29.97	84	N	1	oph	29.91	-2.3	33	33	0	S	5	S	6	37	32	0.05	
Stornoway ...	20.05	33	E	2	C	29.93	-1.5	31	31	-3	W	2	C	3	38	25		
Wick ...	30.01	31	NW	1	b	29.96	-1.4	32	30	-3	S	1	O	2	40	29	0.12	
Nairn ...	30.03	32	ESE	1	b	29.98	-1.0	25	24	-6	Z	0	b	1	36	22		
Aberdeen...	30.06	31	SW	1	agms	30.06	-0.4	20	20	-13	WNW	2	agms	5	34	19	0.05	
Leith ...	30.03	34	ESE	2	O	30.01	-0.4	31	30	0	E	1	C	*	37	26	0.01	
Shields ...	30.00	33	NE	2	op	29.99	-0.1	30	30	-3	NW	1	cm	4	35	28	0.06	
Spurn Head ...	29.90	34	ENE	4	O	29.94	+0.3	31	30	-2	NNE	2	S	3	35	28	0.06	
York ...	29.93	32	NE	1	O	29.96	+0.3	27	27	-2	NNE	1	O	*	36	26	0.02	
Loughborough	29.93	31	NNE	2	C	29.97	+0.4	29	28	-1	N	1	cm	*	37	28		
Ardrossan ...	30.01	34	ENE	1	O	30.01	-0.2	30	29	-1	NE	3	b	1	38	26		
Malin Head ...	29.98	34	SSE	3	b	29.94	-0.2	30	30	-2	SSE	3	b	2	37	30		
Mullaghmore ...	29.95	36	E	5	b	29.92	-0.2	32	30	-2	ENE	5	C	3	39	31		
Belmullet ...	29.92	38	SE	5	b	29.90	-0.0	31	30	-2	SSE	3	b	*	41	30		
Donaghadee ...	29.99	36	ESE	5	C	29.97	-0.2	32	31	-3	ESE	4	S	2	39	32	0.04	
GERMANY.																		
Barrow-in-Furness	29.97	32	NE	2	b	29.97	+0.0	28	27	-1	NNE	2	b	*	38	26		
Liverpool (Bidston)	29.95	32	ENE	1	O	29.97	+0.1	30	29	+1	E	1	O	2	35	29	0.01	
Holyhead ...	29.95	34	ENE	3	Cg	29.94	-0.2	32	32	0	E	3	b	2	37	31	0.01	
Parsonstown ...	29.94	33	Z	0	b	29.92	-0.1	22	21	-6	Z	0	b	*	40	21		
Valencia ...	29.87	39	ESE	4	b	29.85	-0.1	37	34	0	ESE	1	b	2	44	35		
Roche's Point...	29.90	40	ESE	4	b	29.87	+0.1	34	32	-4	E	3	b	4	43	31		
Pembroke ...	29.91	34	ENE	2	m	29.91	+0.1	34	32	+3	E	3	C	2	37	30		
Scilly ...	29.88	39	NE	1	C	29.85	+0.1	40	37	+1	ESE	4	O	3	41	36		
Prawle Point ...	29.89	32	ENE	3	O	29.92	+0.0	31	30	-1	NE	3	b	3	37	27		
Jersey ...	29.84	38	ENE	3	ogm	29.92	+1.1	35	32	0	ESE	2	b	2	42	32		
FRANCE & NETHERLANDS.																		
Hurst Castle ...	29.89	34	ENE	4	C	29.94	+1.0	32	31	+1	NE	3	om	1	36	28	0.01	
Dungeness ...	29.85	33	ENE	4	C	29.91	+1.0	30	30	-4	ENE	3	S	1	37	25	0.03	
London ...	29.90	34	ENE	2	O	29.94	+1.0	31	30	-2	NE	1	og	*	39	30		
Oxford ...	29.93	30	E	1	O	29.96	+0.7	29	28	-5	NE	1	og	*	39	29		
Cambridge ...	29.91	32	E	1	O	29.96	+0.5	30	30	-1	N	1	O	*	40	27	0.01	
Yarmouth ...	29.88	32	ENE	3	C	29.94	+0.7	31	30	-2	E	1	W	4	34	26	0.17	
SPAIN.																		
Cuxhaven ...	29.92	28	ENE	5	O	29.98	+0.8	27	26	0	ENE	6	S	*	28	24		
Berlin ...	29.89	24	ENE	2	O	29.94	+1.2	20	19	-4	NE	4	O	*	27	19		
Wiesbaden ...	*	*	*	*	*	29.87	+1.1	26	25	-2	NE	2	S	*	30	25	0.04	
Munich ...	29.75	21	E	1	S	29.81	+1.3	18	18	-6	SE	2	S	*	30	14	0.12	
PORTUGAL.																		
The Helder ...	29.91	30	E	1	C	29.98	+0.8	?	25	?	E	1	C	2	30	27		
Brussels ...	*	*	*	*	*	29.95	+1.2	23	?	-3	NE	1	O	*	34	23	0.04	
Cape Gris Nez...	?	31	ENE	4	C	?	?	26	26	-3	SSE	2	C	2	36	?		
Paris ...	29.83	31	NNE	2	O	29.91	+1.4	24	24	-1	N	2	b	*	32	23		
Brest ...	29.94	33	Z	0	b	29.91	+0.7	32	32	-2	E	2	b	2	46	30		
AFRICA.																		
Lorient ...	29.83	42	N	2	C	29.86	+0.8	34	32	-2	E	4	b	2	46	34		
Rocheport ...	29.85	41	Z	0	O	29.95	+1.0	33	32	0	Z	0	C	1	45	27		
Belfort ...	29.75	39	W	1	O	29.82	+0.9	24	24	-4	W	1	O	*	32	21		
Lyons ...	29.87	30	ESE	1	S	29.89	+0.8	25	25	-2	N	1	m	*	37	24	0.04	
Nice ...	29.60	43	SE	2	b	29.70	+1.4	36	31	0	ENE	3	b	1	30	32		
ASIA.																		
Perpignan ...	29.82	45	N	2	b	29.86	+0.6	38	35	-2	W	2	b	*	53	32		
Biarritz ...	29.82	46	W	6	r	29.89	+0.6	39	37	-4	SW	4	O	2	48	37	0.12	
AMERICA.																		
Corunna ...	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	
Lisbon ...	30.13	49	NW	1	b	30.16	+0.05	47	45	-1	W	3	b	3	55	45	0.16	

WEATHER CHARTS

for 8 a.m. on

Saturday, 2nd March.

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.

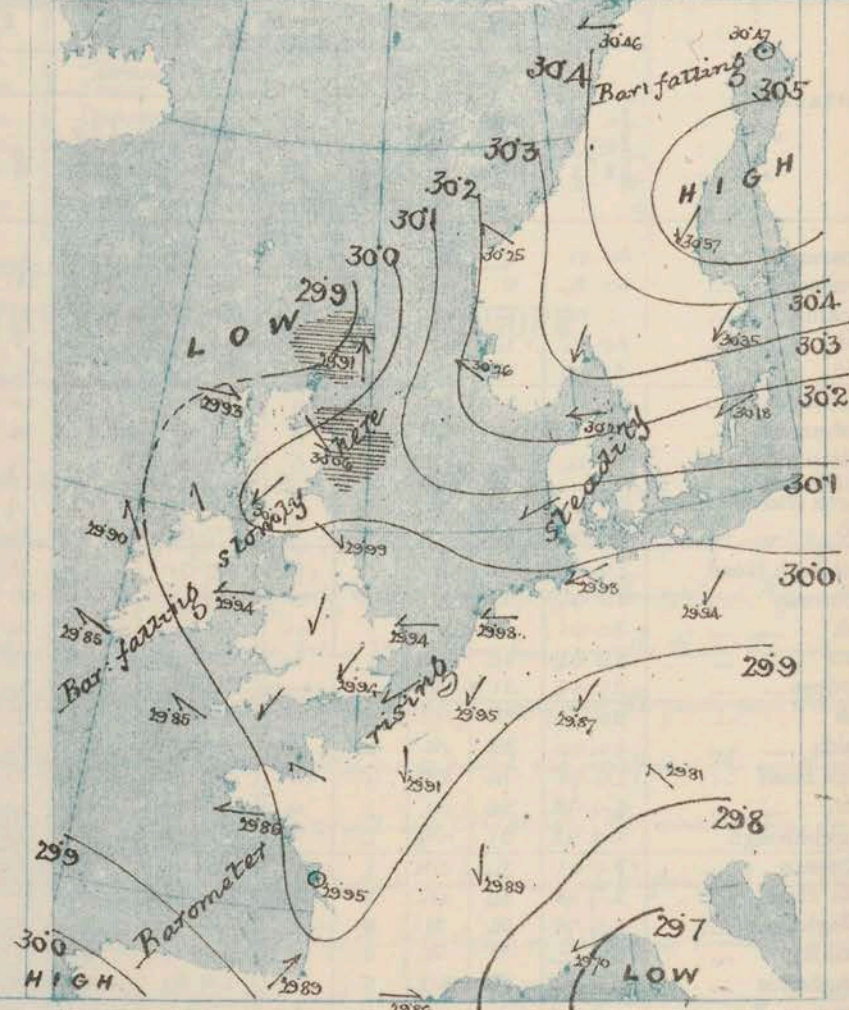
■ = Rough; ■ = High.

MEAN HEIGHT of the BAROMETER.

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

During the 16 Years 1871—1885.

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



TEMPERATURE, & WEATHER at 8 A.M., with RAINFALL in PAST 24 HOURS.

Temperature — Isotherms are drawn for each 10° changes since previous morning are stated in words.

Weather — is shown by Letters of the Beaufort Scale.

Rainfall — A dotted line separates the districts in which rain

has fallen from those where there has been none.

Falls of 0.5 in. or more, are quoted in figures.

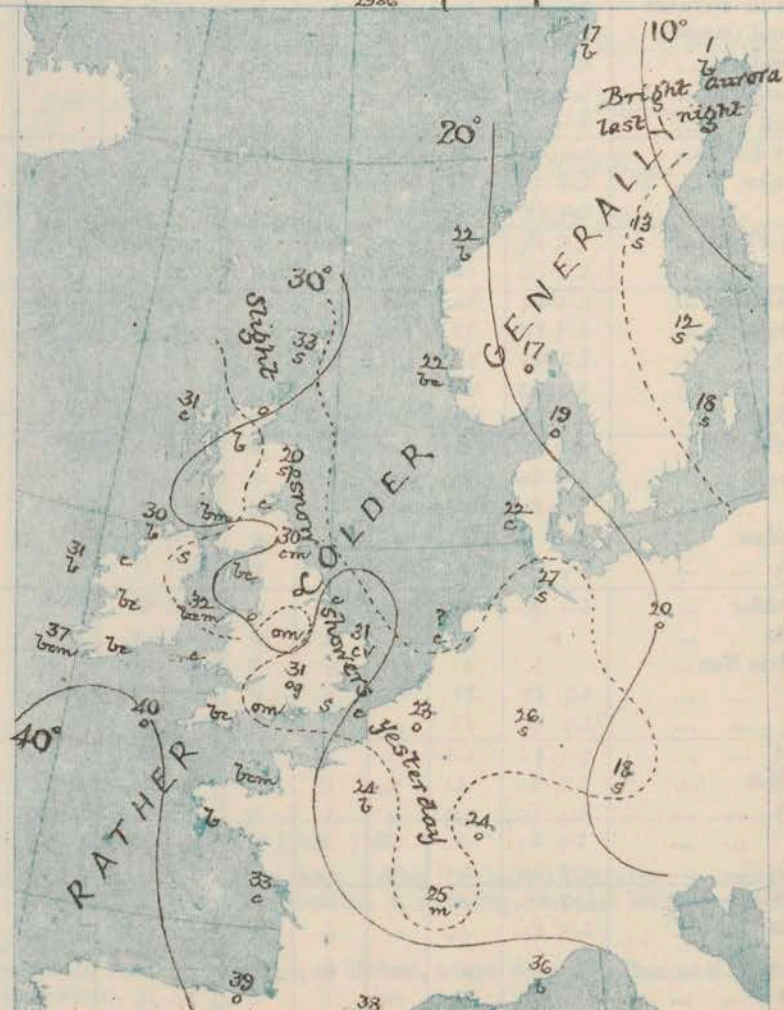
MEANS OF TEMPERATURE IN SHADE.

AND RAINFALL.

for the month of March.

STATIONS	TEMPERATURE.				RAINFALL. (Inches)
	Daily Max.	Daily Min.	at 8 a.m.		
			Dry	Wet	
Sumburgh Head	42.6	34.0	38.5	37.1	2.02
Stornoway	44.9	34.4	39.2	38.0	3.87
Wick	44.7	33.9	39.1	37.2	1.97
Nairn	45.6	34.2	38.2	36.3	1.72
Aberdeen	45.4	34.7	38.9	36.8	2.24
Leith	48.2	34.8	39.7	37.9	1.86
Shields	45.2	35.4	39.6	38.0	1.60
York	48.9	33.7	38.6	37.1	1.63
Loughborough	49.8	34.3	39.5	37.7	1.47
Ardrossan	46.8	36.6	40.5	38.7	2.59
Donaghadee	47.3	37.1	41.0	39.7	1.99
Holyhead	47.6	39.2	42.5	41.0	2.21
Liverpool	47.3	37.1	40.8	38.7	1.69
Parsonstown	50.1	35.5	41.2	39.6	2.35
Valencia	51.6	40.6	45.4	43.4	4.24
Roche's Point	50.2	40.0	43.8	42.1	3.71
Pembroke	47.1	39.5	42.6	40.8	2.45
Seilly	49.9	43.0	46.5	44.7	2.38
Jersey	49.9	40.5	44.7	42.7	2.32
Hurst Castle	48.3	37.7	41.6	40.7	1.80
Dover	46.9	37.8	41.6	39.9	1.86
LONDON	50.6	35.8	40.6	38.7	1.43
Oxford	49.5	35.2	39.4	37.9	1.52
Cambridge	50.6	33.3	39.2	37.7	1.33
Yarmouth	45.7	35.8	40.8	39.1	1.77

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



GENERAL SITUATION AT 8 A.M.

PRESSURE

Highest, 30.2 ins. to 30.5 ins. over Scandinavia — 29.9 ins. to 30.2 ins. over the Spanish Peninsula.
 Lowest, 29.7 ins. and less, over the Gulf of Genoa, about 29.8 ins. off the southwest of Ireland, and below 29.5 ins. off the northwest of Scotland.
 Gradients moderate over Scandinavia, Denmark, and the northern parts of the North Sea, slight elsewhere.
 Barometer falling a little in Scotland and Ireland, rising slowly elsewhere.

TEMPERATURE

Highest, 40° at Seilly, 38° at Biarritz, 38° at Perpignan, 37° at Valencia, and 36° at Nice.
 Lowest, 1° F. at Haparanda, 12° at Stockholm, 14° at Göteborg and Laredo, 20° at Aberdeen and Berlin, 23° at Brussels, 24° at Paris and Belfast, 25° at Lyons and Vienna, and 25° at Oxford.
 It is lower in most places than it was yesterday, especially in the East of Scotland, where it has fallen 15°. It is apparently now rising in the N.

WIND

Moderate to fresh from E. or NE. over the Baltic, Scandinavia and Denmark.
 Light from NE. at our southern stations, and in the northern parts of France.
 E. on our southwest coast, SE to S in the extreme northwest and north.

WEATHER

Fine at our southern, western and northwestern stations, as well as in the northwest of France and in Norway.
 Cloudy or overcast elsewhere, with some snow in many localities.
 In London the sky is densely overcast and gloomy. Brilliant Aurora was seen at Haparanda last night.

SEA

Rough on our extreme northeast coast, moderate in the East, slight or smooth elsewhere.

PROBABLE CHANGES IN SYSTEM NOW PREVALENT

It appears probable that milder weather will now become general in the north and west, with S^{ly} winds, but a very cold night is likely to be experienced over England, and perhaps fog.

FORECASTS

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

DISTRICTS.

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

FORECASTS.

SE^{ly} to SW^{ly} winds, light, becoming milder, cold rain or sleet.

Very light winds, mainly E^{ly}; cold unsettled, some cold showers.

DISTRICTS.

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

FORECASTS.

Same as N^{os} 0 to 2.

SE^{ly} winds, moderate, fair to unsettled and showery. Becoming milder.

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.
Skudesnaes ...	30.18	34	22	SE 2	c	2	Holyhead ...	29.95	37	34	E 3	bcp	2
Sumburgh Head ...	30.04	35	34	N 1	c	3	Valencia ...	29.87	43	39	SE 4	bc	4
Stornoway ...	30.07	38	37	E 4	bc	4	Scilly ...	29.86	40	36	NE 2	bc	3
Aberdeen ...	30.08	34	31	SE 2	o s p	5	Jersey ...	29.82	40	35	NNE 3	c	3
Shields ...	29.99	34	34	E 3	c	5	Dungeness ...	29.83	37	33	E 5	c	3
Ardrossan ...	30.02	38	35	E 1	bc	1	London ...	29.88	36	33	NNE 1	o	*
Malin Head ...	29.97	37	37	SSE 3	b	2	Yarmouth ...	29.87	34	33	E 4	c s	4
Mullaghmore ...	29.95	38	34	SSE 5	c	3	Rocheport ...	29.86	43	39	S 2	o	2
Belmullet ...	29.91	41	38	SSE 3	o	*							

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

The reports for yesterday morning showed that barometric pressure was still highest, 30.4 ins. and upwards, over Lapland, but that a second area of high readings, 30.1 ins. and upwards, was lying off the extreme south of Spain. The lowest readings, 29.6 ins. and less, were found in a depression lying over the Riviera and Northern Italy, but the barometer was low, 29.7 ins. and less, over nearly the whole of Italy, Austria and South Germany as well as the southeast of France. The wind was light to fresh from the NE^W or E^W over all the more northern parts of Europe, but SE^W in Ireland over Spain and the south of France moderate NW breezes were reported, while in Italy and Algeria the wind was chiefly SW^W. Cloudy weather prevailed very generally, and while snow was falling in many parts of Northern and Central Europe, as well as in the east and southeast of Great Britain, rain was reported at several of the Algerian and Italian stations. Temperature had risen a few degrees in the south of Ireland and also in Germany, but fallen elsewhere; readings ranged from a little above 55° over the central parts of the Mediterranean, and from between 45° and 50° on the coast of Spain and Algeria to many degrees below the freezing point over Poland and Northern Russia. The highest individual readings were 57° at Palermo and Malta, 54° at Biskidiri, 53° at Algiers, 51° at Cagliari, 50° at San Fernando, and 48° at Lisbon, Lighorn, Rome, Naples, and Lerina; the lowest were 34° at Moscow, Archangel, and Warsaw, 8° at St. Petersburg, 12° at Kuopio, 14° at Riga, 16° at Helsingfors, Stockholm and Moscow, 17° at Uleaborg, Hangö and Bräslau, 18° at Memel, and 19° at Rode and Hernösand.

In the course of the day the barometer fell decidedly in the extreme north of Scotland, but no important change took place in the winds or weather. Hard frost was experienced in the east of Scotland at night, the thermometer at Aberdeen falling to 19°.

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 5 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 3rd March 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 ..	30.51	4	N	2	b	30.35	- .12	-5	-4	-	6	N	4	b	*	12	?	-
Hernösand ...	30.54	4	Z	0	o	30.53	- .04	12	12	-	1	Z	0	s	*	19	0	-
Stockholm ...	30.38	9	NE	2	bc	30.35	.00	3	3	-	9	N	2	b	*	16	?	-
Wisby ...	30.25	18	NE	4	s	30.25	+ .07	19	18	+	1	NE	4	o	*	27	16	0.08
Bodö ...	30.38	19	ENE	2	b	30.30	- .16	19	17	+	2	ENE	2	b	1	21	16	-
Christiansund...	30.27	24	ESE	2	b	30.25	.00	21	19	-	1	Z	0	b	1	27	21	-
Skudesnaes ...	30.28	23	E	4	bc	30.30	+ .04	21	19	-	1	ESE	4	bc	4	27	21	-
Christiania Fjord (Farder)	30.34	18	NNE	5	o	30.36	+ .04	13	12	-	4	NNE	5	s	1	18	9	-
Skagen (The Scaw)	30.24	18	E	4	o	30.26	+ .05	16	16	-	3	E	4	o	1	25	15	-
Fanö ...	30.11	22	ENE	4	b	30.12	+ .05	21	21	-	1	ENE	4	c	*	27	19	0.04
BRITISH ISLANDS.																		
Sumburgh Head	30.06	32	SSE	4	o	30.08	+ .17	32	31	-	1	SSE	2	b	5	34	28	0.19
Stornoway ...	29.97	36	SW	2	bc	29.97	+ .04	33	32	+	2	SE	2	b	3	39	29	-
Wick ...	30.04	34	SE	1	c	30.05	+ .09	33	31	+	1	SE	4	c	3	37	29	0.10
Nairn ...	30.04	28	SE	1	b	30.02	+ .04	27	25	+	2	ESE	1	b	1	37	24	-
Aberdeen...	30.07	31	SE	1	ops	30.06	.00	25	24	+	5	WNW	1	bcap	4	35	20	0.10
Leith ...	30.02	31	E	3	c	30.02	+ .01	27	27	-	4	Z	0	b	*	38	25	-
Shields ...	30.04	32	Z	0	s	29.99	.00	28	28	-	2	NW	1	o	3	34	26	0.51
Spurn Head ...	29.97	34	ESE	3	bc	30.01	+ .07	30	28	-	1	SSW	3	c	3	37	28	0.04
York ...	29.95	31	NNE	1	b	29.98	+ .02	25	25	-	2	N	1	o	*	37	24	-
Loughborough	29.97	33	ENE	1	o	30.02	+ .05	22	22	-	7	NE	1	f	*	42	22	-
ARDROSSAN.																		
Ardrossan ...	29.99	33	ENE	1	b	29.99	- .02	29	28	-	1	ENE	3	b	1	38	26	-
Malin Head ...	29.92	33	SSE	3	om	29.89	- .05	32	32	+	2	SSE	3	bm	2	36	30	-
Mullaghmore ...	29.88	36	ESE	5	bc	29.86	- .06	34	32	+	2	ESE	5	c	4	40	31	-
Belmullet ...	29.85	37	SE	3	b	29.87	- .09	34	33	+	3	SE	3	b	*	44	30	-
Donaghadee ...	29.96	34	SE	3	bc	29.94	- .03	35	33	+	3	SE	3	o	2	38	32	0.04
FRANCE & NETHERLANDS.																		
Barrow-in-Furness	29.97	33	ENE	2	bc	30.00	+ .03	29	29	+	1	NNE	2	c	*	38	26	-
Liverpool (Bidston)	29.97	32	ESE	1	o	29.99	+ .02	29	28	-	1	ESE	2	o	3	37	29	-
Holyhead ...	29.94	36	Z	0	c	29.96	+ .02	32	30	0	SE	1	cmg	1	40	30	-	
Parsonstown ...	29.89	36	SE	1	bc	29.87	- .05	35	33	+	13	SE	2	o	*	42	21	-
Valencia ...	29.83	43	SE	3	cm	29.82	- .03	38	37	+	1	SE	1	og	2	46	37	0.07
Roche's Point...	29.86	40	SSE	5	c	29.86	- .01	39	39	+	5	S	6	r	5	43	34	0.46
Pembroke ...	29.92	36	E	4	c	29.94	+ .03	32	31	-	2	E	3	bm	2	38	31	-
Scilly ...	29.84	39	E	5	c	29.88	+ .03	39	36	-	1	ESE	2	c	3	44	36	-
Prawle Point ...	29.92	33	ENE	3	s	29.92	.00	33	33	+	2	E	3	o	3	36	29	0.04
Jersey ...	29.91	38	E	3	b	29.95	+ .03	36	32	+	1	ESE	3	bm	3	41	32	-
HURST CASTLE.																		
Hurst Castle ...	29.94	35	E	4	c	29.98	+ .04	32	31	0	E	5	o	1	38	30	0.01	
Dungeness ...	29.94	33	ENE	3	bc	29.96	+ .05	30	29	0	ESE	3	bc	2	36	28	-	
London ...	29.98	31	E	2	omg	30.00	+ .06	26	24	-	5	E	1	bc	*	35	24	0.03
Oxford ...	29.98	31	NE	1	o	30.02	+ .06	27	26	-	2	NE	1	b	*	36	26	-
Cambridge ...	29.98	31	E	1	s	30.04	+ .08	20	20	-	10	E	1	b	*	38	14	0.02
Yarmouth ...	29.98	31	ESE	3	cv	30.00	+ .06	29	29	-	2	W	1	c	3	33	25	0.01
Cuxhaven ...	30.01	28	ENE	5	o	30.01	+ .03	27	26	0	ENE	5	s	*	28	24	-	
Berlin ...	29.97	24	NNE	3	s	30.00	+ .06	22	21	+	2	NW	3	s	*	25	19	-
Wiesbaden ...	*	*	*	*	*	29.95	+ .08	24	23	-	2	NE	2	o	*	32	21	-
Munich ...	29.85	20	NE	1	c	29.88	+ .07	19	19	+	1	Z	0	s	*	28	?	0.04
PORTUGAL.																		
The Helder ...	30.04	28	E	3	c	30.02	+ .04	26	25	?	E	1	b	1	30	25	-	
Brussels ...	*	*	*	*	*	30.00	+ .05	21	21	-	2	NNE	1	b	*	28	21	-
Cape Gris Nez...	?	29	ENE	3	bc	?	?	24	24	-	2	ENE	3	b	2	34	23	-
Paris ...	29.93	29	NE	2	o	29.94	+ .03	22	22	-	2	N	2	s	*	36	21	-
Brest ...	29.88	42	ESE	3	o	29.90	- .01	31	28	-	1	E	3	b	2	50	28	-
FRANCE & NETHERLANDS.																		
Lorient ...	29.86	38	ESE	3	bc	29.87	+ .01	30	27	-	4	E	4	b	2	43	30	-
Rochefort ...	29.90	40	E	3	o	29.84	- .11	33	31	0	ENE	4	c	2	48	27	-	
Belfort ...	29.90	32	W	1	o	29.84	+ .02	24	?	-	3	W	1	o	*	38	18	-
Lyons ...	29.90	30	N	1	c	29.92	+ .03	24	23	-	1	ENE	1	m	*	36	28	-
Nice ...	29.92	41	SE	5	b	29.87	+ .11	36	30	0	ENE	3	b	1	52	32	-	
PERPIGNAN.																		
Perpignan ...	29.89	43	NW	2	b	29.86	.00	36	32	-	2	SE	1	b	*	50	31	-
Biarritz ...	29.83	50	ESE	4	o	29.78	- .11	38	36	-	1	S	3	bc	3	54	36	0.24
SPAIN.																		
Corunna ...	*	*	*	*	*	29.91	- .02	51	46	+	5	WNW	5	bc	5	54	41	0.35
Lisbon ...	30.12	50	W	3	b	30.10	- .06	48	44	+	1	W	3	r	3	55	45	0.04

1889

(Explanation of Map)

* \longrightarrow = forces above W ; \longrightarrow = forces B to W .
 \longrightarrow = forces S to T ; \longrightarrow = forces 1 to 4 .
 @ = dead calm.

 = Rough = High

at 8 a m, for the month of March
During the 15 Years, 1871 — 1885

A hand-drawn weather map of the United States, showing isobars, weather fronts, and barometer trends. The map includes handwritten notes such as "Bar. falling slightly", "Bar. rising slightly", and "Barometer rising". Isobars are labeled with values like 29.8, 29.9, 30.0, 30.1, 30.2, 30.3, 30.4, 30.5, and 30.6. A high-pressure system is marked with a circled "H" and "HIGH", and a low-pressure system is marked with a circled "L" and "LOW". Weather fronts are indicated by lines with various symbols, including triangles and semicircles. Arrows indicate the direction of wind or pressure changes.

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.

23.86

RAIN

RAILWAYS

MILDER

COLDER

PLACES

IN MOST

RAIN HAS FALLEN

SNOW

10°

20°

30°

40°

50°

60°

70°

80°

90°

100°

110°

120°

130°

140°

150°

160°

170°

180°

190°

200°

210°

220°

230°

240°

250°

260°

270°

280°

290°

300°

310°

320°

330°

340°

350°

360°

370°

380°

390°

400°

410°

420°

430°

440°

450°

460°

470°

480°

490°

500°

510°

520°

530°

540°

550°

560°

570°

580°

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610°

620°

630°

640°

650°

660°

670°

680°

690°

700°

710°

720°

730°

740°

750°

760°

770°

780°

790°

800°

810°

820°

830°

840°

850°

860°

870°

880°

890°

900°

910°

920°

930°

940°

950°

960°

970°

980°

990°

1000°

NOTE—The Temperature means are for the 45 years 1871–85, the Rainfall means are mainly those for the 20 years 1866–85

GENERAL SITUATION AT 8 A.M.

PRESSURE

Highest, 30.5 ins. and upwards, over central Sweden; 30.1 ins. at Lisbon.
 Lowest, 29.8 ins. and less, in an irregularly shaped area stretching from the west of Ireland to the southwest of France.
 Gradient slight and irregular. Barometer falling a little in Scandinavia, Ireland, and the southwest of France, but rising elsewhere.

TEMPERATURE

Highest, 51° at Corunna, 48° at Lisbon, 39° at Rocherpoint and Sully, 38° at Valencia and Biarritz, and 36° at Nice and Perpignan.
 Lowest, -5° at Haparanda, +3° at Stockholm, 12° at Helsingfors, 13° at Vaasa, 16° at Riga, and 19° at Rostock, Mity, and Munich.
 Hard frost was experienced over Great Britain last night; at Cambridge the thermometer in the screen fell to 14°.

WIND

SE in the west and extreme north of our islands, variable on our north-east coasts.
 E or NE in most other localities, but W at Corunna and Lisbon and S at Biarritz.

WEATHER

Fine in the west of Norway and the southeast of England, as well as in the Netherlands and south of France.
 Cloudy or overcast with rain at Rocherpoint and Lisbon and snow at some of the Swedish and German stations.
 Snow fell yesterday in many parts of the United Kingdom — heavily at Shrewsbury.

SEA

Rather rough at Wick and Rocherpoint, but moderate to smooth elsewhere.

PROBABLE CHANGES IN SYSTEM NOW PREVALENT

No important change in the weather is indicated at present.

FORECASTS

for the 24 hours ending at NOON on 4TH MARCH 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.

NONE ISSUED.

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.	Wea.	Sea.		Bar.	Dry.	Wet.	Wind.	Wea.	Sea.		
Skudesnaes ...	30.29	27	22	E	6	c	3	Holyhead ...	29.94	37	34	SSE	1	cg	1
Sumburgh Head ...	30.06	33	32	SSE	5	s	6	Valencia ...	29.83	40	41	SE	4	bc m	4
Stornoway ...	29.95	39	37	SW	4	o	4	Scilly ...	29.85	40	40	ESE	5	c	3
Aberdeen ...	30.06	34	30	SE	2	bc	4	Jersey ...	29.93	40	33	SE	2	b.	2
Shields ...	30.00	32	32	SW	3	o	3	Dungeness ...	29.93	34	32	ENE	3	bc	1
Ardrossan ...	29.99	37	34	ENE	2	c	1	London ...	29.96	35	33	ENE	2	omg	*
Malin Head ...	29.92	36	36	S	4	bc	2	Yarmouth ...	29.96	33	32	ESE	3	c	4
Mullaghmore ...	29.90	39	35	E	5	c	3	Rocheport ...	29.97	40	40	SE	2	o	2
Belmullet ...	29.87	41	37	SE	3	b	*								

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

The reports for yesterday showed a further, but slight increase of pressure over nearly the whole of Europe, and that readings varied from between 30.2 ins. and 30.35 ins. over Scandinavia, and from 30.0 ins. and 30.2 ins. over the Spanish Peninsula to about 29.8 ins. off our extreme southwest coast, to rather below 29.7 ins. over the Gulf of Genoa, and to rather below 29.6 ins. over Austria-Hungary. NE and E winds consequently prevailed over the whole of Northern Europe, the North Sea, England, and north of France, while SE to S breezes had begun to appear in Scotland and the north of Ireland. In Spain and over the southern half of the Mediterranean the wind was W^{ly} and in Austria NW^{ly}. The weather was fine and bright on the Atlantic coasts generally, as well as on the northern shores of the Mediterranean, cloudy, as a whole elsewhere, with snow or sleet in many places. Temperature was low (in the east of Scotland it had fallen decidedly) but at no station was the morning reading below zero F. The lowest values were 1st at Haparanda, 8° to 11° over Ireland, 12° at Stockholm and Riga, 15° at Muench and Breslau, 17° at Haparanda, Vaerde, and Prague, 20° at Aberdeen and Kiel, 22° at Portsmouth, 23° at Brussels, 24° at Paris, 29° at Oxford, 31° in London and 35° at Madrid. The highest were 55° at Malta and Algiers, 54° at Tunis and Cagliari, 53° at Palermo, 47° at Barcelona and Lisbon, 46° at Genua, and 40° at Scilly.

The changes observed subsequently were mainly of a local character, but over England the thermometer fell fast as night came on.

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, 4th March* 1889.
 Issued by the Meteorological Office 63 Victoria Street, London. R. H. SCOTT, Secretary.

Issued by the Meteorological Office 63 Victoria Street, London. R.H. SCOTT, Secretary.																		
STATIONS.	+ YESTERDAY EVENING.					8 A.M. TO DAY.										PAST 24 HOURS.		
	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 ..	30.43	0	Z	0	b	30.47	+ 12	-1	-1	+ 4	Z	0	b	*	12	?	-	
Hernösand ...	30.51	15	Z	0	o	30.55	+ 02	15	14	+ 9	Z	0	b	*	21	1	-	
Stockholm ...	30.41	16	Z	0	o	30.41	+ 06	14	13	+ 11	EHE	2	b	*	21	1	-	
Wisby ...	30.23	21	NE	4	b	30.26	+ 01	16	15	- 3	E	2	b	*	28	16	-	
Bodö ...	30.29	21	Z	0	b	30.32	+ 02	18	15	- 1	E	2	b	1	28	16	-	
Christiansund...	30.27	23	ESE	1	b	30.26	+ 01	21	19	0	ESE	1	b	1	27	19	-	
Skudesnaes ...	30.28	21	ESE	2	bc	30.31	+ 01	23	19	+ 2	ESE	4	c	4	?	21	-	
Christiania Fjord (Færdor)	30.31	20	NHE	5	o	30.34	- 02	21	19	+ 8	NHE	5	o	1	?	?	-	
Skagen (The Scaw)	30.22	21	E	4	o	30.23	- 03	21	21	+ 5	E	4	S	1	21	16	-	
Fanö ...	30.13	20	EHE	4	o	30.11	- 01	21	21	0	EHE	4	o	*	25	16	-	
BRITISH ISLANDS.																		
Sumburgh Head	30.09	32	SE	3	o	30.12	+ 04	30	30	- 2	SE	3	o	4	38	28	0.03	
Stornoway ...	29.95	33	SE	4	bc	29.95	- 02	34	34	+ 1	SE	4	c	3	37	30	0.01	
Wick ...	30.04	34	SE	5	c	30.02	- 03	32	31	- 1	SE	4	c	5	36	28	0.15	
Nairn ...	30.04	32	E	1	b	30.00	- 02	23	22	- 4	Z	0	b	1	36	21	-	
Aberdeen...	30.05	30	SE	6	ogsu	30.05	- 01	31	30	+ 6	SE	2	cusp.	5	36	25	0.27	
Leith ...	30.00	31	E	2	b	30.01	- 01	23	23	- 4	ESE	1	b	*	39	19	-	
Shields ...	29.99	31	N	2	c	30.04	+ 05	15	15	- 13	SW	1	f	2	35	15	-	
Spurn Head ...	30.01	33	ESE	2	b	30.06	+ 05	31	30	+ 1	WSW	2	bc	3	36	27	-	
York ...	29.98	32	E	1	bc	30.01	+ 03	25	25	0	SSE	1	b	*	35	23	-	
Loughborough	30.02	32	SE	1	b	30.06	+ 04	23	23	+ 1	SE	1	bcm	*	42	21	-	
Ardrossan ...	29.96	34	EHE	1	om	29.99	- 00	27	27	- 2	NE	3	b	2	35	25	-	
Malin Head ...	29.86	34	SSE	3	om	29.83	- 06	32	32	0	SSE	4	m	3	37	32	-	
Mullaghmore ...	29.81	37	SE	5	m	29.80	- 06	35	33	+ 1	E	6	sg	4	38	33	-	
Belmullet ...	29.75	39	ESE	5	o	29.76	- 05	34	34	0	SSE	4	c	*	41	33	0.08	
Donaghadee ...	29.93	37	SE	3	c	29.93	- 01	35	34	0	SE	4	o	2	37	33	0.01	
Barrow-in-Furness	29.98	33	SE	2	bc	30.00	- 00	28	28	- 1	EHE	1	b	*	37	28	-	
Liverpool (Bidston)	29.99	33	SE	2	b	29.99	- 00	28	26	- 1	ESE	3	o	3	35	25	-	
Holyhead ...	29.95	36	S	1	c	29.93	- 03	30	29	- 2	EHE	1	sgm	1	40	29	0.01	
Parsonstown ...	29.83	38	SE	2	o	29.81	- 06	36	35	+ 1	SE	2	o	*	41	33	-	
Valencia ...	29.76	42	NE	1	bcip	29.79	- 03	37	36	- 1	Z	0	b	1	45	36	0.20	
Roche's Point...	29.79	41	SSE	7	r	29.78	- 08	35	35	- 4	N	3	f	4	42	34	0.30	
Pembroke ...	29.91	36	ESE	5	bc	29.84	- 10	37	36	+ 5	SE	7	rsq	6	38	31	0.27	
Scilly ...	29.72	43	SSW	5	o	29.77	- 11	43	42	+ 4	WSW	1	r	2	46	37	0.67	
Prawle Point ...	29.98	32	E	2	S	29.92	- 06	37	34	+ 4	SSE	6	o	5	37	30	0.46	
Jersey ...	29.98	36	EHE	3	b	30.03	+ 05	35	32	- 1	ESE	3	bcm	3	40	33	-	
Hurst Castle ...	30.00	32	ESE	3	c	30.03	+ 05	34	34	+ 2	SE	4	orsm	1	38	32	-	
Dungeness ...	29.98	32	NE	3	c	30.04	+ 08	24	22	- 6	NE	3	bc	1	36	21	-	
London ...	30.02	32	ESE	1	bcm	30.06	+ 06	25	24	- 1	ESE	1	bf	*	37	20	-	
Oxford ...	30.04	29	SE	1	b	30.06	+ 04	28	27	+ 1	SE	1	b	*	37	23	-	
Cambridge ...	30.06	30	Z	0	b	30.04	- 02	20	19	0	Z	0	b	*	38	16	-	
Yarmouth ...	30.01	32	EHE	2	CV	30.06	+ 06	30	29	+ 1	E	3	S	3	33	25	0.06	
Cuxhaven ...	30.06	29	EHE	4	o	30.05	+ 04	27	27	0	NE	3	S	*	29	25	-	
Berlin ...	29.95	26	NW	3	S	30.02	+ 02	22	21	0	SE	2	S	*	28	21	0.04	
Wiesbaden ...	*	*	*	*	*	30.04	+ 09	24	23	0	NE	1	o	*	32	21	-	
Munich ...	29.88	16	Z	0	m	29.99	+ 11	16	16	- 3	SE	1	m	*	28	9	-	
FRANCE & NETHERLANDS.																		
The Helder ...	30.04	28	E	1	c	30.09	+ 07	25	24	- 1	E	1	bc	1	28	25	-	
Brussels ...	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	-
Cape Gris Nez...	?	30	E	3	c	?	?	28	28	+ 4	S	2	bc	2	36	23	-	
Paris ...	29.96	30	NHE	2	c	30.06	+ 12	20	?	- 2	NHE	1	b	*	36	20	-	
Brest ...	30.05	39	Z	0	b	29.91	+ 01	43	39	+ 12	S	7	bc	6	48	?	-	
Lorient ...	29.95	38	NE	2	b	29.98	+ 11	39	35	+ 9	S	4	e	2	41	30	-	
Rochefort ...	29.92	39	NE	4	o	30.12	+ 28	30	29	- 3	E	1	b	2	41	23	-	
Belfort ...	29.88	30	W	1	o	29.99	+ 15	25	25	+ 4	W	1	c	*	37	17	-	
Lyons ...	29.89	34	SE	1	bc	30.01	+ 09	29	27	+ 5	N	1	o	*	39	?	-	
Nice ...	29.86	39	SW	2	b	29.93	+ 12	35	32	- 1	EHE	4	bc	1	46	30	-	
Perpignan ...	29.86	43	NE	2	o	29.99	+ 13	38	38	+ 2	NW	3	o	*	47	34	0.04	
Biarritz ...	29.73	45	W	5	r	30.06	+ 28	37	34	- 1	SE	3	o	3	52	34	0.28	
SPAIN & PORTUGAL.																		
Corunna ...	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	-
Lisbon ...	30.15	49	NW	2	b	30.28	+ 18	46	42	- 2	NW	2	b	2	55	43	-	

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, 4th March.

1889.

BAROMETER, WIND & SEA.

(Explanation of Map)

Barometer — Iso-bars 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.

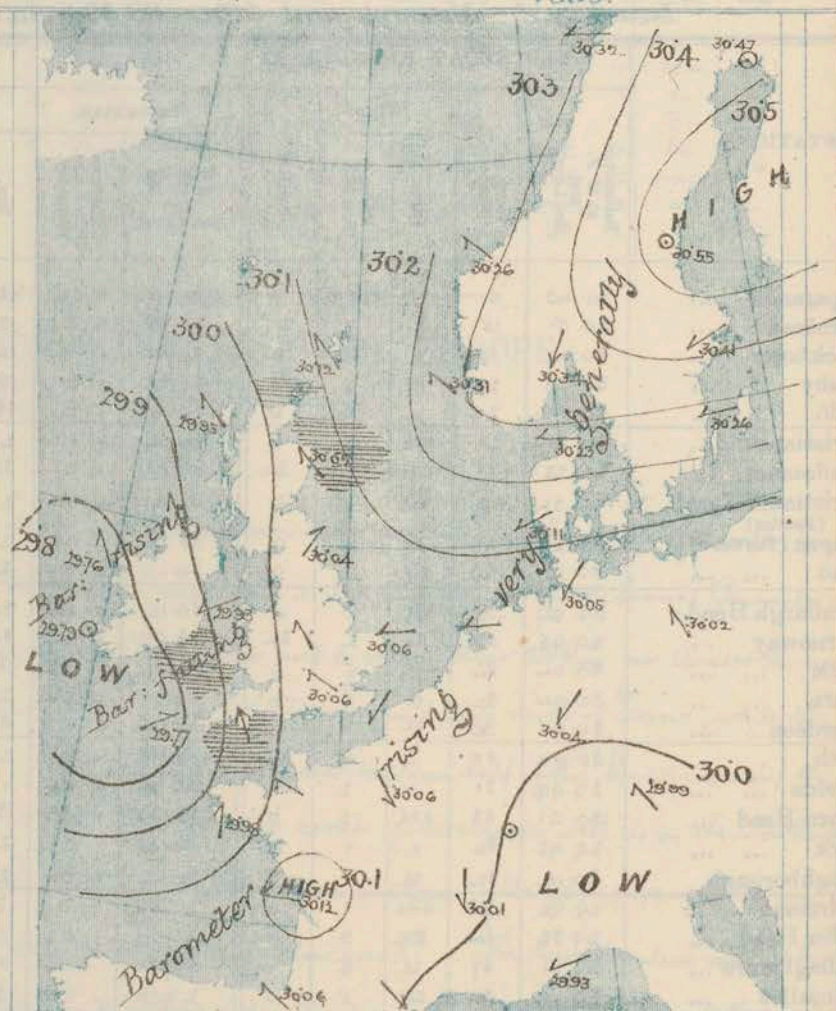
— Rough. — High

MEAN HEIGHT of the BAROMETER

at 6 a.m. for the month of March.

During the 15 Years 1871-1885.

STATIONS.	MEAN READINGS.
	in.
Sumburgh Head	29.751
Stornoway	29.779
Wick	29.797
Nairn	29.815
Aberdeen	29.830
Leith	29.862
Shields	29.866
York	29.925
Loughborough	29.948
Ardrossan	29.876
Donaghadee	29.892
Holyhead	29.919
Liverpool	29.925
Parsonstown	29.940
Valencia	29.938
Roche's Point	29.941
Pembroke	29.944
Scilly	29.966
Jersey	29.971
Hurst Castle	29.966
Dover	29.955
LONDON	29.967
Oxford	29.966
Cambridge	29.967
Yarmouth	29.988



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 1/10 in. or more, are quoted in figures.

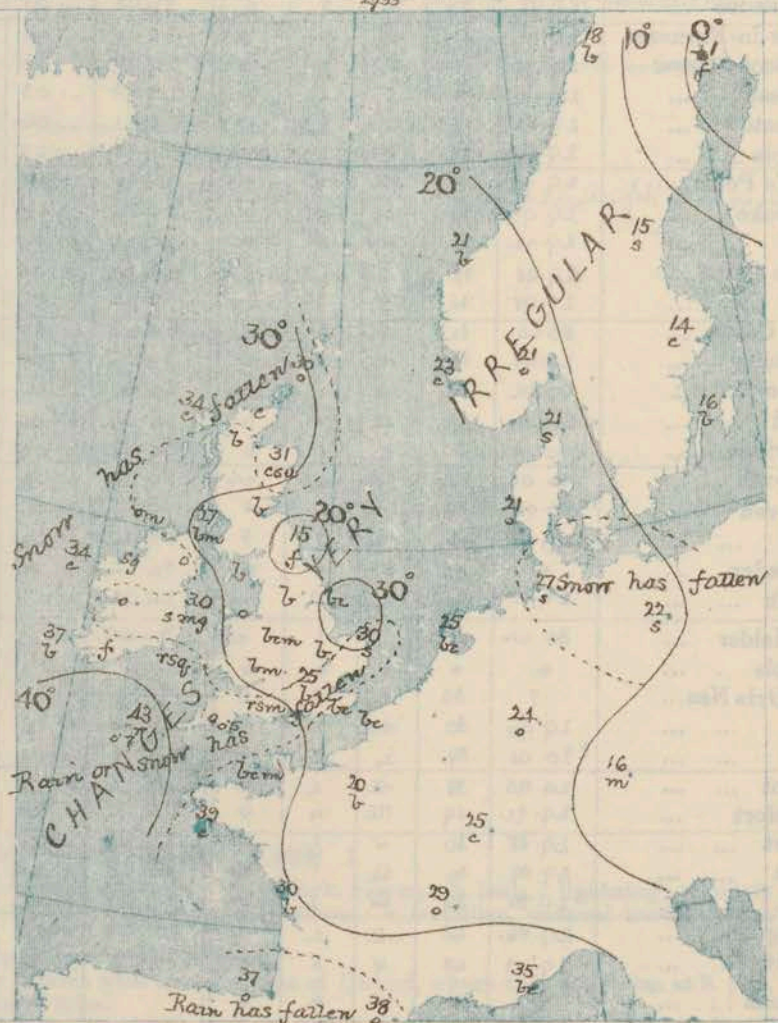
MEANS OF TEMPERATURE IN SHADE.

AND RAINFALL.

for the month of March.

STATIONS.	TEMPERATURE.				RAINFALL. (Inches)
	Daily Max.	Daily Min.	at 8 a.m.	at 4 p.m.	
Sumburgh Head	42.6	34.0	38.5	37.1	2.92
Stornoway	44.9	34.4	39.2	38.0	3.87
Wick	44.7	33.9	39.1	37.2	1.97
Nairn	45.6	34.2	38.2	36.3	1.72
Aberdeen	45.4	34.7	38.9	36.8	2.24
Leith	48.2	34.6	39.7	37.9	1.36
Shields	45.9	35.4	39.6	38.0	1.60
York	48.9	38.7	38.6	37.1	1.63
Loughborough	49.8	34.3	39.5	37.7	1.47
Ardrossan	46.8	36.6	40.5	38.7	2.59
Donaghadee	47.3	37.1	41.0	39.7	1.99
Holyhead	47.6	39.2	42.5	41.0	2.21
Liverpool	47.3	37.1	40.8	38.7	1.69
Parsonstown	50.1	35.5	41.2	39.6	2.35
Valencia	51.6	40.6	45.4	43.4	4.24
Roche's Point	50.2	40.0	43.8	42.1	3.71
Pembroke	47.1	39.5	42.6	40.8	2.45
Scilly	49.9	43.0	46.5	44.7	2.38
Jersey	49.9	40.5	44.7	42.7	2.32
Hurst Castle	48.3	37.7	41.6	40.7	1.80
Dover	46.9	37.8	41.6	39.9	1.86
LONDON	50.6	35.8	40.6	38.7	1.43
Oxford	49.5	35.2	39.4	37.9	1.52
Cambridge	50.6	38.3	39.2	37.7	1.33
Yarmouth	45.7	35.8	40.8	39.1	1.77

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



GENERAL SITUATION AT 8 A.M.

PRESSURE

Highest, 30.5 ins: and upwards, over the Gulf of Bothnia, 30.2 ins: and upwards, over the south of Portugal.
 Lowest, 29.8 ins: and less, in a large shallow area lying over the extreme west and southwest of our islands.
 Gradients slight. Barometer falling a little at some of our station stations and also in Denmark, but rising elsewhere.

TEMPERATURE

Highest, 46° at Lisbon, 43° at Sicily and Corsica, 35° at Lyons, 38° at Perpignan, and 37° at Valencia, Hambro, Copenhagen and Riga.
 Lowest, -1° at Haparanda, +14° at Stockholm, 15° at Helsingfors and Shields, 16° at Metchin, and 18° at Rode.
 During the night the thermometer has fallen to 15° at Shields, 16° at Cambridge, 13° at Leeds and 20° in London.

WIND

Moderate SE^{ly} over the greater part of our islands, but SW^{ly} in the northeast of England, and variable on our extreme southwest coasts.
 Moderate E^{ly} on the eastern shores of the North Sea, calm in the north of Sweden.
 Light and variable over central France, NW^{ly} at Perpignan and Lisbon.

WEATHER

Varying greatly in different localities but generally changeable and unsettled, with snow in many places.
 Heavy snow fell yesterday in the southwest of England and also in the east of Scotland.

SEA

Rough at Pembroke and rather rough at Pwllheli, as well as off the east of Scotland, but moderate to smooth elsewhere.

PROBABLE CHANGES IN SYSTEM NOW PREVALENT

The distribution of barometrical pressure is favourable for the development of small shallow depressions over the southern parts of our islands, and unsettled weather is therefore likely to continue generally, with decided falls of snow in many districts.
 Temperature will probably remain very low for the time of year.

FORECASTS

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

DISTRICTS.

FORECASTS.

0	SCOTLAND NORTH	SE ^{ly} winds, moderate or fresh; changeable; some snow showers.
1	SCOTLAND EAST	
2	ENGLAND N.E.	SW ^{ly} to SE ^{ly} winds, light; fair to unsettled and some snow.
3	ENGLAND EAST	
4	MIDLAND COUNTIES	E ^{ly} and SE ^{ly} winds, light or moderate; some snow.
5	ENGLAND SOUTH	

DISTRICTS.

FORECASTS.

6	SCOTLAND WEST	E ^{ly} winds, light or moderate; changeable; some snow showers.
7	ENGLAND N.W.	
8	ENGLAND S.W.	SE ^{ly} and variable breezes; unsettled; some snow.
9	IRELAND NORTH	Same as Nos 0 and 1.
10	IRELAND SOUTH	Variable breezes, changeable; some sleet or cold 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.	Wea.	Sea.		Bar.	Dry.	Wet.	Wind.	Wea.	Sea.
Skudesnaes ...	30.29	25	?	SE 2	c	3	Holyhead ...	29.96	39	33	S 2	bc	1
Sumburgh Head ...							Valencia ...						
Stornoway ...	29.96	37	36	S 4	b	3	Scilly ...						
Aberdeen ...							Jersey ...	29.97	38	34	ESE 3	bc	3
Shields ...							Dungeness ...	29.97	35	32	ESE 3	c	2
Ardrossan ...							London ...						*
Malin Head ...	29.87	36	36	SSE 4	bc	3	Yarmouth ...						
Mullaghmore ...							Rochefort ...	29.87	46	41	ESE 4	c	2
Belmullet ...	29.76	40	39	SSE 4	c	*							

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

The reports for yesterday morning showed that pressure was giving way a little both at the extreme northern and western stations, and still more decidedly over southeastern Europe; it varied from between 30.30 ins. and about 30.5 ins. over Scandinavia and Finland, and from between 30.00 and 30.15 ins. over the southern parts of the Spanish Peninsula, to somewhat below 29.8 ins. off the west of Ireland, to about the same value in some small depressions lying near Nîmes, Pesas and Warsaw, and to less than 29.7 ins. in another disturbance lying over the northern shores of the Black Sea. The gradients were consequently not steep, and the wind was moderate or light in force. In direction it was NE^{ly} to E^{ly} over the Baltic, the North Sea, the English Channel, and the north and west of France - variable over England, SE^{ly} over Ireland and Scotland. Over Spain and the southern parts of the Mediterranean it was W^{ly}, and a very light breeze from the same quarter was prevalent over Austria, Hungary. Temperature had recovered a little in Ireland, but decreased elsewhere, especially over northern Europe, where the cold was intense. The lowest morning values were -2.3° at Archangel, -5° at Naparanda, -6° at Riga, -3° at Moscow, +2° at Ulesborg, 3° at Stockholm, 4° at St. Petersburg, 6° at Memel, 13° at Faerder and Munster, 14° at Buda Pesth and Cracow, 16° at the Scau, 20° at Cambridge, 21° at Brussels, 22° at Berlin, Paris and Loughborough, 26° in London, 27° at Leith. The highest were 54° at Brindisi and Cagliari, 51° at Malta and Corunna, 50° at Gran and La Calle, 49° at Bilbao; all the British and Irish stations the readings were below 40°. Later, on a strong S^{ly} wind blew, and a great deal of cold rain and sleet fell on our southwest coasts owing to a local depression in that region, while a strong SE^{ly} wind, and snow was felt locally at Aberdeen.

SUMMARY OF CHANGES IN THE WEATHER OVER THE BRITISH ISLANDS AND THEIR NEIGHBOURHOOD FROM THE 24th FEB^y TO THE 2nd MAR. 1889.

During the week under notice the weather over the whole of Europe has been of a very quiet character. A high pressure area has been prevalent over northern Europe, and, generally, a second one has been observed over the Atlantic, in the immediate neighbourhood of Ireland at first, and of Portugal later. The depressions observed have been confined to the Mediterranean and central Europe, but have been comparatively shallow, while their movements have been slight and somewhat erratic. Temperature has been continuously low; the wind in our Islands has varied in direction between N. and E., and while occasional showers of graupel, sleet and snow have been recorded over Great Britain, the weather in Ireland, and indeed, on the Atlantic shores of Europe generally has been fair and bright. The sea has not been much disturbed.

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, 5th March* 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 ...	30.41	-1	Z	0	o	30.34	-13	-13	-13	-12	Z	0	b	*	5	?	-	
Hernösand ...	30.56	4	Z	0	b	30.56	+01	-4	-4	-19	Z	0	bc	*	21	?	-	
Stockholm ...	30.44	10	EHE	2	b	30.43	+02	10	9	-4	E	2	s	*	21	9	-	
Wisby ...	30.32	19	NE	4	bc	30.38	+07	23	23	+7	E	4	s	*	25	12	-	
Bodö ...	30.33	19	E	2	b	30.28	-04	21	19	+3	ESE	2	e	1	23	16	-	
Christiansund...	30.28	25	S	1	b	30.23	-03	25	23	+4	ESE	2	bc	1	28	19	-	
Skudesnaes ...	30.30	24	E	2	bc	30.25	-06	26	23	+3	E	2	o	4	?	23	-	
Christiania Fjord (Færder)	30.34	23	NE	4	o	30.30	-04	18	17	-3	NE	4	s	1	23	14	-	
Skagen (The Scaw)	30.23	24	ESE	3	s	30.19	-04	24	23	+3	SE	4	s	1	25	21	-	
Fanö ...	30.11	23	EHE	3	b	30.14	+03	20	19	-1	SE	3	b	*	27	16	-	
BRITISH ISLANDS.																		
Sumburgh Head	30.09	31	SE	5	o	30.05	-07	31	31	+1	SE	5	s	6	33	24	0.04	
Stornoway ...	29.94	34	E	2	o	29.83	-12	32	32	-2	SE	5	s	4	37	30	0.10	
Wick ...	30.00	33	SE	5	bc	29.95	-07	34	33	+2	SE	5	o	5	37	30	0.12	
Nairn ...	29.98	31	E	1	bc	29.92	-08	30	29	+7	ESE	1	cm	1	40	22	-	
Aberdeen...	30.03	27	W	2	bcsp	30.04	-01	10	10	-21	WNW	2	bcm	4	33	10	0.18	
Leith ...	30.03	32	ESE	2	b	29.99	-02	30	30	+7	ESE	1	c	*	40	23	-	
Shields ...	30.04	33	SE	3	o	30.04	+03	28	28	+13	S	2	c	2	35	15	-	
Spurn Head ...	30.05	34	ESE	3	b	30.13	+07	31	30	0	SSW	4	b	3	35	28	-	
York ...	30.02	33	ESE	1	b	30.08	+04	28	28	+3	S	1	b	*	38	24	-	
Loughborough	30.04	34	ESE	2	o	30.13	+04	28	24	+5	SE	1	cm	*	40	23	-	
Ardrossan ...	29.97	34	EHE	3	o	29.96	-03	32	32	+5	E	4	ospm	3	37	26	0.02	
Malin Head ...	29.83	35	SSE	4	om	29.83	00	38	37	+6	S	3	op	2	38	32	-	
Mullaghmore ...	29.82	40	ESE	5	om	29.89	+09	38	37	+3	SSW	3	e	3	41	34	0.06	
Belmullet ...	29.81	41	SSW	3	c	29.93	+14	40	39	+6	WSW	2	b	*	43	34	0.21	
Donaghadee ...	29.93	35	SSE	4	r	29.93	00	37	36	+2	WSW	3	c	1	38	34	0.13	
Barrow-in-Furness	29.99	35	SE	4	o	30.03	+03	31	31	+3	SE	5	c	*	35	27	-	
Liverpool (Bidston)	29.98	32	SE	3	o	30.05	+06	30	29	+2	SE	4	o	3	35	28	-	
Holyhead ...	29.93	35	SE	2	ogm	30.01	+08	36	35	+6	SSW	4	mgs	3	36	30	0.05	
Parsonstown ...	29.83	41	Z	0	b	29.99	+18	34	33	-2	Z	0	c	*	46	31	-	
Valencia ...	29.86	44	W	1	bc	30.04	+25	38	37	+1	Z	0	bc	1	50	37	0.19	
GERMANY.																		
Roche's Point...	29.83	43	WSW	2	bc	29.99	+21	37	35	+2	NW	2	b	4	46	33	-	
Pembroke ...	29.88	36	SE	6	r	30.03	+19	39	37	+2	SE	5	cp	4	39	34	0.15	
Scilly ...	29.81	45	E	2	o	30.03	+26	44	42	+1	SE	4	bc	5	50	40	0.02	
Prawle Point ...	29.92	36	SE	6	o	30.08	+16	38	35	+1	E	2	o	3	39	32	0.13	
Jersey ...	29.92	40	ESE	5	og	30.05	+02	35	32	0	E	4	om	3	40	34	-	
FRANCE & NETHERLANDS.																		
Hurst Castle ...	30.01	35	SE	4	og	30.12	+09	33	32	-1	E	4	b	1	38	32	-	
Dungeness ...	30.01	35	S	2	c	30.10	+06	30	29	+6	SE	4	c	2	38	23	-	
London ...	30.05	33	ESE	2	o	30.13	+07	29	27	+4	SE	1	bc	*	39	24	-	
Oxford ...	30.06	30	SE	1	s	30.14	+08	30	28	+2	SE	1	og	*	35	26	-	
Cambridge ...	30.06	31	SE	1	bc	30.16	+12	24	26	+7	ESE	1	b	*	41	18	-	
Yarmouth ...	30.08	31	SE	3	bc	30.13	+07	30	29	0	Z	0	bcf	3	33	26	0.01	
Cuxhaven ...	30.09	27	EHE	2	o	30.14	+09	12	12	-15	S	1	m	*	27	11	-	
Berlin ...	30.14	26	SSE	1	bc	30.23	+21	13	13	-9	SE	2	c	*	28	12	-	
Wiesbaden ...	*	*	*	*	*	30.13	+09	23	22	-1	NE	1	o	*	34	19	-	
Munich ...	30.03	17	NE	2	b	30.10	+11	9	9	-7	NW	2	b	*	28	5	-	
SPAIN & PORTUGAL.																		
The Helder ...	30.11	28	E	1	s	30.13	+04	22	21	-3	SSE	1	c	2	30	19	0.12	
Brussels ...	*	*	*	*	*	30.16	*	22	21	*	E	1	b	*	28	21	0.04	
Cape Gris Nez...	?	31	E	1	o	?	?	26	25	-2	E	3	o	2	37	25	-	
Paris ...	30.06	32	SSE	1	b	30.08	+02	23	23	+3	E	1	b	*	38	23	-	
Brest ...	29.79	38	SE	7	r	?	?	34	31	-9	NW	1	o	6	46	30	0.43	
Lorient ...	29.79	38	SSE	6	r	29.93	-05	33	32	-6	NNE	4	m	5	43	32	0.59	
Rochefort ...	29.99	42	SE	5	o	29.89	-23	40	40	+10	NNE	3	o	2	45	?	0.16	
Belfort ...	29.97	27	E	1	b	30.07	+08	25	24	0	E	1	b	*	35	13	-	
Lyons ...	30.09	33	N	1	bc	30.09	+08	25	25	-4	NE	1	m	*	39	23	-	
Nice ...	30.01	35	NE	4	r	30.05	+12	33	31	-2	EHE	3	b	1	51	?	0.08	
Perpignan ...	30.03	45	Z	0	bc	30.03	+04	39	37	+1	SW	1	o	*	53	36	-	
Biarritz ...	29.97	48	WSW	5	o	30.00	-06	48	45	+11	W	7	o	4	52	?	0.24	
PORTUGAL.																		
Corunna ...	*	*	*	*	*	*	*	*	*	*	WNW	2	o	2	55	?	0.04	
Lisbon ...	30.81	50	W	3	b	30.83	+05	50	48	+4	WNW	2	o	2	55	?	0.04	

WEATHER

CHARTS

for 8 a.m. on

Tuesday, 5th March

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.

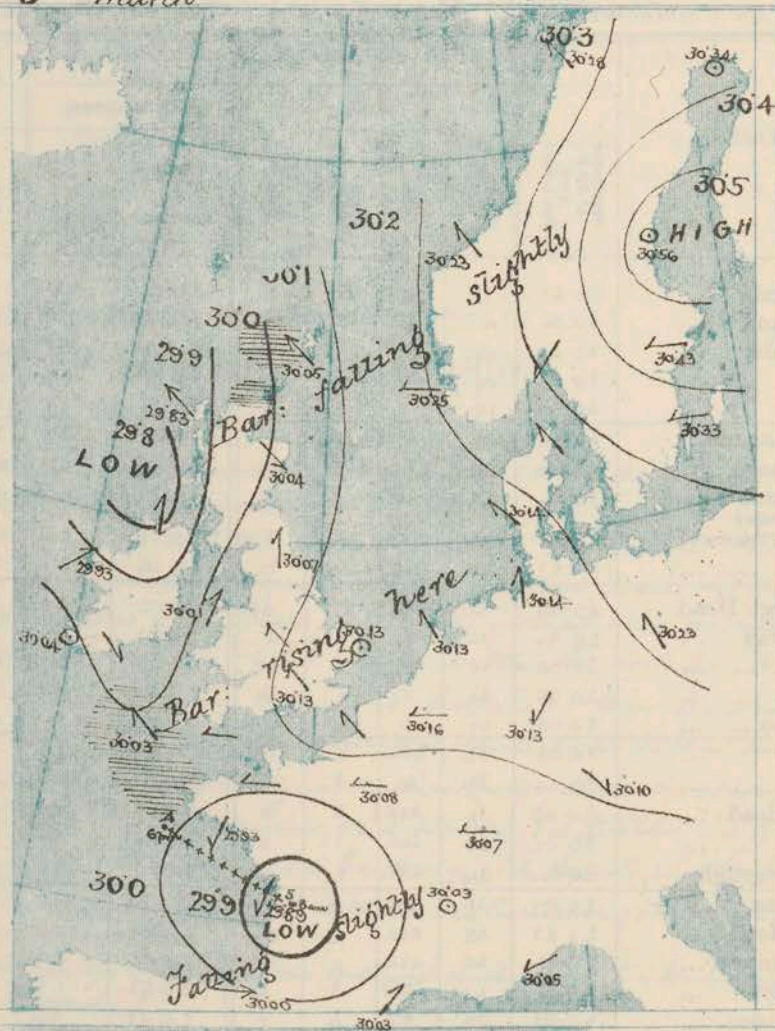
— Rough — High.

MEAN HEIGHT of the BAROMETER

at 8 a.m. for the month of March

During the 15 Years 1871–1885.

STATIONS	MEAN READINGS.
Sumburgh Head	29.751
Stornoway	29.779
Wick	29.797
Nairn	29.815
Aberdeen	29.830
Leith	29.862
Shields	29.896
York	29.925
Loughborough	29.948
Ardrossan	29.876
Donaghadee	29.892
Holyhead	29.919
Liverpool	29.925
Parsonstown	29.940
Valencia	29.988
Roche's Point	29.941
Pembroke	29.944
Scilly	29.966
Jersey	29.971
Hurst Castle	29.966
Dover	29.955
LONDON	29.967
Oxford	29.966
Cambridge	29.957
Yarmouth	29.988



TEMPERATURE, & WEATHER at 8 A.M., with RAINFALL in PAST 24 HOURS.

Temperature — Isotherms are drawn for each 10° changes since previous morning are stated in words.

Weather — is shown by Letters of the Beaufort Scale.

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

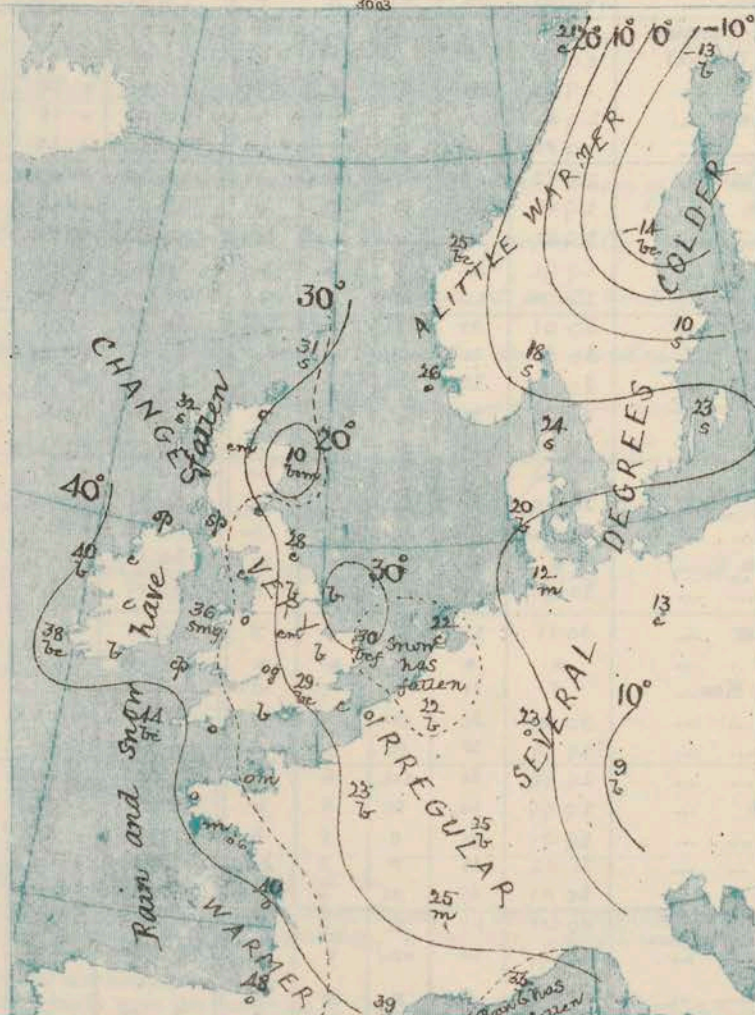
MEANS OF TEMPERATURE IN SHADE.

AND RAINFALL.

for the month of March.

STATIONS	TEMPERATURE.				RAINFALL. (Inches.)
	Daily Max	Daily Min	at 3 a m.		
			Dry	Wet.	
Samburgh Head	42.6	34.0	38.5	37.1	2.92
Stornoway	44.9	34.4	39.2	38.0	3.87
Wick	44.7	33.9	39.1	37.2	1.97
Nairn	45.6	34.2	38.2	36.3	1.72
Aberdeen	45.4	34.7	38.9	36.8	2.24
Leith	48.2	34.6	39.7	37.9	1.36
Shields	45.9	35.4	39.6	38.0	1.60
York	48.9	33.7	38.6	37.1	1.63
Loughborough	48.8	34.3	39.5	37.7	1.47
Ardrossan	46.8	36.6	40.5	38.7	2.59
Donaghadee	47.3	37.1	41.0	39.7	1.99
Holyhead	47.6	39.2	42.5	41.0	2.21
Liverpool	47.8	37.1	40.8	38.7	1.69
Parsonstown	50.1	35.5	41.2	39.6	2.35
Valencia	51.6	40.6	45.4	43.4	4.24
Roche's Point	50.2	40.0	43.8	42.1	2.71
Pembroke	47.1	39.5	42.6	40.8	2.45
Scilly	49.9	43.0	46.5	44.7	2.38
Jersey	49.9	40.5	44.7	42.7	2.32
Hurst Castle	48.3	37.7	41.6	40.7	1.80
Dover	46.9	37.8	41.6	39.9	1.86
LONDON	50.6	36.8	40.6	38.7	1.43
Oxford	49.5	35.2	39.4	37.9	1.52
Cambridge	50.6	33.3	39.2	37.7	1.33
Yarmouth	45.7	35.8	40.8	39.1	1.77

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



GENERAL SITUATION AT 8 A.M.

PRESSURE

Highest, 30.5 in: and upwards, over Iceland and Sweden, 30.3 in: and upwards over the south of Portugal.
Lowest, 29.8 in: and less, in a depression, lying off the west of Scotland; 29.9 in: and less, in another lying over the west of France.
Radiant slight and somewhat irregular.
Barometer falling a little in Scandinavia, the north of our Islands and Central France, but rising elsewhere.

TEMPERATURE

Highest, 50° at Lisbon, 48° at Biarritz, 44° at Bally, 40° at Bismullet, Brest, Rochefort, and Perpignan, and 39° at Limerick.
Lowest, -13° at Haparanda, -4° at Helsingfors, +9° at Munich, 10° at Stockholm and Almdorf, 12° at Copenhagen, and 13° at Berlin.
Hard frost was again experienced last night over Great Britain and the Continent; in London the thermometer fell to 24° in the evening and to 21° on the grass.

WIND

Moderate or fresh from the SE^{ly} over the major part of Great Britain and also in Denmark.
Light from E. or NE. over the northern and central part of France; strong from W. at Biarritz.
Light from SW. or W. at most of the Irish stations.

WEATHER

Fine on our Eastern, southern, and extreme western coast, as well as in Germany and the East and south of France and the north of Sweden.
Cloudy or overcast elsewhere, with snow in the west and north of Scotland, the northwest of England, and the south of Scandinavia.
Solar halo were seen yesterday at Oxford, Jersey and Biarritz.

SEA

Wavy at Lumburgh Head; and rather rough at Wick, Lally and Lorient, but moderate to smooth elsewhere.

PROBABLE CHANGES IN SYSTEM NOW PREVALENT

The depression off the west of Scotland will probably move away in a northerly direction, and the small disturbance over the west of France is likely to disperse.

No important change in the weather is indicated at present.

FORECASTS

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

DISTRICTS.

FORECASTS.

0	SCOTLAND NORTH	SE ^{ly} winds, fresh or strong; unsettled, some snow.
1	SCOTLAND EAST	{ S ^{ly} and SE ^{ly} winds, moderate or fresh; fair to unsettled and some snow.
2	ENGLAND N.E.	
3	ENGLAND EAST	{ E ^{ly} and SE ^{ly} winds, moderate or fresh; unsettled, some snow showers.
4	MIDLAND COUNTIES	
5	ENGLAND SOUTH	


DISTRICTS.


FORECASTS.

6	SCOTLAND WEST	{ SE ^{ly} winds, freshening; unsettled, some snow.
7	ENGLAND N.W.	
8	ENGLAND S.W.	
9	IRELAND NORTH	{ W ^{ly} and NW ^{ly} winds, moderate; changeable, some cold showers.
10	IRELAND SOUTH	

WARNINGS

The NORTH CONE was hoisted last evening in districts 3, 5, and part of 8, but the signals have been lowered again this morning.

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

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

YESTERDAY'S 2 P.M. REPORTS.

	Bar.	Dry.	Wet.	Wind.	Wca.	Sea.		Bar.	Dry.	Wet.	Wind.	Wca.	Sea.
Skudesnaes ...	30.30	29	23	E 4	C	3	Holyhead ...	29.92	85	82	SSE 3	oms p	2
Sumburgh Head ...	30.10	31	31	SE 3	o s p	5	Valencia ...	29.83	46	43	W 1	bc r h p	1
Stornoway ...	29.95	37	35	S 4	O	3	Scilly ...	29.77	47	44	NNE 1	C	6
Aberdeen ...	30.03	33	31	S 1	o g s p	4	Jersey ...	29.97	39	35	ESE 4	bc	3
Shields ...	30.02	35	35	SE 2	m	2	Dungeness ...	30.01	36	33	NE 3	bc	1
Ardrossan ...	29.97	37	35	NNE 3	C	2	London ...	30.05	36	32	ESE 1	om	*
Malin Head ...	29.84	36	34	SSE 4	C	2	Yarmouth ...	30.07	33	32	ESE 2	bc v	3
Mullaghmore ...	29.81	41	37	SE 5	om	4	Rochefort ...	30.10	44	37	ESE 4	C	2
Belmullet ...	29.79	43	42	SSE 3	C	*							

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

The reports for yesterday morning showed that pressure had again increased over northeastern, eastern, and southeastern Europe while in Ireland and the west of England it had decreased a little, and the fall was still in progress. A large high pressure area had been formed over Sweden, Finland, and Central Russia, the other high pressure systems over Spain and the adjacent parts of the Atlantic still held, the two systems being separated by a broad band of lower readings covering the British Isles, France, Western Germany, the Mediterranean and southeastern Europe, and in which were two shallow depressions — one over Ireland and the mouth of St. George's Channel, the second over Corsica and the Gulf of Genoa, and the third (very shallow) in the neighbourhood of Magdeburg. The wind was E⁴ over the Baltic, Scandinavia, and Denmark, SE³ over the eastern part of North Germany, and the British Isles, very variable elsewhere; it was mainly NE² in the Riviera, NW² to W² in Spain, SW² to W² over Algeria. The weather was very variable; at most of the Central and Eastern Continental stations the sky was overcast, and at several of them snow was falling, at many of the more western stations the weather was clear, but in other localities it was densely overcast, and on the eastern shores of the St. George's Channel a great deal of rain and wet snow was reported, as well as at Corunna and Biarritz. Temperature had risen on the shores of the White Sea, fallen in most other places, and was low generally — especially over Russia. The lowest morning values were -11° F. at Moscow, -6° at St. Petersburg, -1° at Haparanda, +1° at Kuopio and Helsingfors, 3° at Kiev, 4° at Cracow, 5° both at Kharkov and Uleaborg, 9° at Prague, 15° at Shields and Harwich, 16° at Munich, Vienna, and Buda Pesth, 17° at Munster, 20° at Paris, 22° at Berlin, 23° at Loughborough, and 25° in London, at York and the Hebrides. At Nice the temperature was 35°, at Florence 38° and at Naples 43°. The highest were 53° at Malta, 54° at Oran, 53° at Palermo, 52° at Rhindiri, 49° at Barcelona, 46° at Lisbon and Corunna, and 43° at Brest and Lillo.

Later on the depression at the mouth of St. George's Channel moved southwards to the Bay of Biscay, and caused much rain at Lorient; the barometer rose on all our coasts, and another very cold night was experienced over the British Isles generally.

EXPLANATION OF COLUMNS GIVEN ON PAGE 1.

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

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

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

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

DAILY WEATHER REPORT.

for WEDNESDAY 6TH FEBRUARY 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.			Sea. (0 to 8.)	SHADE TEMP.		Amount of Rainfall.	
			Dir.	Force. (0 to 12.)			Reading at 32° F. and Sea Level.	Difference from 8 a.m. yesterday.	Dry.	Wet.	Difference from 8 a.m. yesterday.	Dir.	Force. (0 to 12.)			Max.	Min.		
SCANDINAVIA.																			
Haparanda ..	30.25	14	2	0	5	30.28	+0.04	-8	-8	+5	5	2	5	*	1	?	—		
Hernösand ...	30.25	13	2	0	5	30.47	-0.09	-11	-11	-7	2	0	5	*	?	?	—		
Stockholm ...	30.44	19	ENE	2	0	30.37	-0.06	22	21	+12	ENE	2	5	*	?	?	0.04		
Wisby ...	29.97	23	ENE	4	0	30.32	-0.01	22	22	0	5	4	0	*	28	12	0.04		
Bodö ...	30.21	24	E	2	5	30.12	-0.16	21	18	0	5	2	5	1	27	18	—		
Christiansund...	30.17	29	ENE	1	5	30.12	-0.11	22	21	-2	ENE	1	5	1	?	?	—		
Skudesnaes ...	30.61	27	ENE	2	0	30.12	-0.13	22	26	+2	ENE	6	0	5	?	?	—		
Christiania Fjord	30.30	23	NNE	4	5	30.26	-0.04	22	22	+5	NE	3	5	1	28	18	—		
(Furder)																			
Skagen (The Scaw)	30.26	26	2	0	5	30.24	+0.05	22	22	-1	5	1	5	1	28	21	0.08		
Fanö ...	30.21	23	ENE	4	0	30.21	+0.07	20	19	0	5	2	5	*	25	18	—		
BRITISH ISLANDS.																			
Sumburgh Head	29.95	34	ENE	4	0	29.70	-0.25	28	26	+7	ENE	2	5	6	28	21	0.02		
Stornoway ...	29.75	28	SW	2	5	29.48	-0.27	29	28	+7	SW	6	0	4	44	20	0.20		
Wick ...	29.62	26	ENE	5	0	29.62	-0.27	29	27	+5	5	6	0	6	29	23	0.07		
Nairn ...	29.86	26	ENE	1	5	29.61	-0.25	28	25	+8	SW	1	5	1	29	29	—		
Aberdeen...	29.93	24	ENE	2	5	29.75	-0.18	28	26	+2	5	4	0	4	28	10	0.09		
Leith ...	29.93	27	ENE	1	5	29.78	-0.15	28	28	+1	5	2	0	*	41	28	0.03		
Shields ...	29.99	25	5	2	0	29.91	-0.08	24	27	+6	SW	2	5	2	26	27	0.02		
Spurn Head ...	30.10	26	5	4	5	30.03	-0.07	24	27	+2	SW	4	5	2	27	29	—		
York ...	30.04	27	5	2	5	29.96	-0.08	25	24	+7	5	1	0	*	29	27	0.02		
Loughborough	30.14	25	ENE	2	5	30.07	-0.06	22	20	+4	ENE	1	5	*	42	28	—		
Ardrossan ...	29.92	28	2	0	5	29.74	-0.18	24	24	+9	5	5	2	4	41	22	0.10		
Malin Head ...	29.88	42	SW	4	5	29.65	-0.23	29	28	+1	SW	4	0	2	46	27	0.11		
Mullaghmore ...	29.93	43	SW	4	5	29.72	-0.21	29	29	+2	SW	6	0	4	47	27	0.06		
Belmullet ...	29.93	44	SW	4	5	29.72	-0.21	29	29	+2	SW	5	0	*	48	29	0.15		
Donaghadee ...	29.97	40	5	2	0	29.81	-0.16	29	28	+2	SW	4	0	2	48	25	0.02		
GERMANY.																			
Barrow-in-Furness	30.01	28	SW	5	5	29.92	-0.09	27	26	+6	ENE	5	0	*	29	20	0.24		
Liverpool (Bidston)	30.06	26	5	2	5	29.97	-0.09	26	24	+6	ENE	2	0	2	40	20	0.02		
Holyhead ...	30.02	42	SW	5	5	29.92	-0.10	22	21	+6	SW	4	0	4	43	25	0.26		
Parsonstown ...	30.01	41	2	0	5	29.87	-0.14	27	26	+2	2	0	0	*	49	27	0.05		
Valencia ...	30.04	46	SW	2	5	29.88	-0.16	27	24	+9	SW	2	5	4	52	28	0.07		
FRANCE & NETHERLANDS.																			
Roche's Point...	30.05	46	W	1	5	29.92	-0.07	27	24	+6	W	2	5	2	47	26	—		
Pembroke ...	30.09	43	5	2	5	29.98	-0.11	24	22	+5	5	5	5	4	44	28	0.21		
Scilly ...	30.11	45	SW	5	5	30.00	-0.11	24	25	+4	5	5	5	4	52	42	0.01		
Prawle Point ...	30.17	28	ENE	2	5	30.09	+0.01	22	22	+5	SW	4	5	2	42	26	0.04		
Jersey ...	30.17	42	NE	2	5	30.18	+0.01	20	27	+5	ENE	2	5	2	46	29	—		
Hurst Castle ...	30.19	26	ENE	2	5	30.14	+0.02	20	29	+7	SW	2	5	1	41	22	—		
Dungeness ...	30.15	25	ENE	1	5	30.16	+0.06	27	24	+7	SW	2	5	1	37	29	—		
London ...	30.20	27	SW	1	5	30.15	+0.02	24	22	+5	ENE	2	5	*	40	27	—		
Oxford ...	30.19	27	ENE	1	5	30.12	-0.02	22	20	+2	ENE	2	5	*	40	20	—		
Cambridge ...	30.18	27	5	1	5	30.12	-0.04	22	21	+5	5	1	5	*	41	25	—		
GERMANY.																			
Yarmouth ...	30.17	22	SW	2	5	30.15	+0.02	22	22	+2	SW	2	5	2	25	28	—		
Cuxhaven ...	30.21	25	ENE	2	5	30.25	+0.04	18	18	+6	ENE	1	5	*	25	14	—		
Berlin ...	30.24	?	ENE	2	?	30.27	+0.04	19	19	+6	5	1	5	*	28	18	—		
Wiesbaden ...	*	*	*	*	*	30.28	+0.05	20	19	-2	NE	1	5	*	27	18	—		
Munich ...	30.15	19	NW	1	5	30.22	+0.07	2	2	-7	E	2	5	*	?	?	—		
FRANCE & NETHERLANDS.																			
The Helder ...	30.22	21	NW	1	5	30.21	+0.01	26	24	+4	5	1	5	1	24	?	—		
Brussels ...	*	*	*	*	*	30.25	+0.09	25	25	+2	ENE	1	0	*	20	22	—		
Cape Gris Nez...	?	20	ENE	1	5	?	?	29	28	+2	5	1	5	1	27	25	—		
Paris ...	30.16	24	NE	2	5	30.25	+0.09	22	22	-1	2	0	5	*	42	21	—		
Brest ...	?	?	?	?	?	30.17	?	22	20	+9	NE	4	5	4	48	27	—		
FRANCE & NETHERLANDS.																			
Lorient ...	30.18	43	N	1	5	30.17	+0.01	22	28	+9	5	2	5	2	46	22	—		
Rocheport ...	30.16	41	N	4	5	30.26	+0.10	24	27	-6	ENE	2	5	2	46	20	—		
Belfort ...	30.20	29	E	1	5	30.21	+0.01	27	26	+2	E	1	5	*	27	19	—		
Lyons ...	30.10	29	E	1	5	30.26	+0.16	27	27	+4	NW	2	5	*	44	?	—		
Nice ...	30.11	42	5	2	5	30.14	+0.03	27	?	+4	ENE	4	5	1	50	22	—		
FRANCE & NETHERLANDS.																			
Perpignan ...	30.12	47	NW	2	5	30.22	+0.10	24	29	+5	NW	2	5	*	49	28	0.04		
Biarritz ...	30.16	28	NW	5	5	30.22	+0.06	22	29	-6	5	4	0	2	50	29	0.16		
GERMANY.																			
Corunna ...	*	*	*	*	*	30.25	-0.01	22	20	+2	SW	2	5	?	55	50	—		
Lisbon ...	30.22	28	NW	2	0	30.25	-0.01	22	20	+2	SW	2	5	?	55	50	—		

WEATHER CHARTS

for 8 a.m. on WEDNESDAY 6TH MARCH

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.

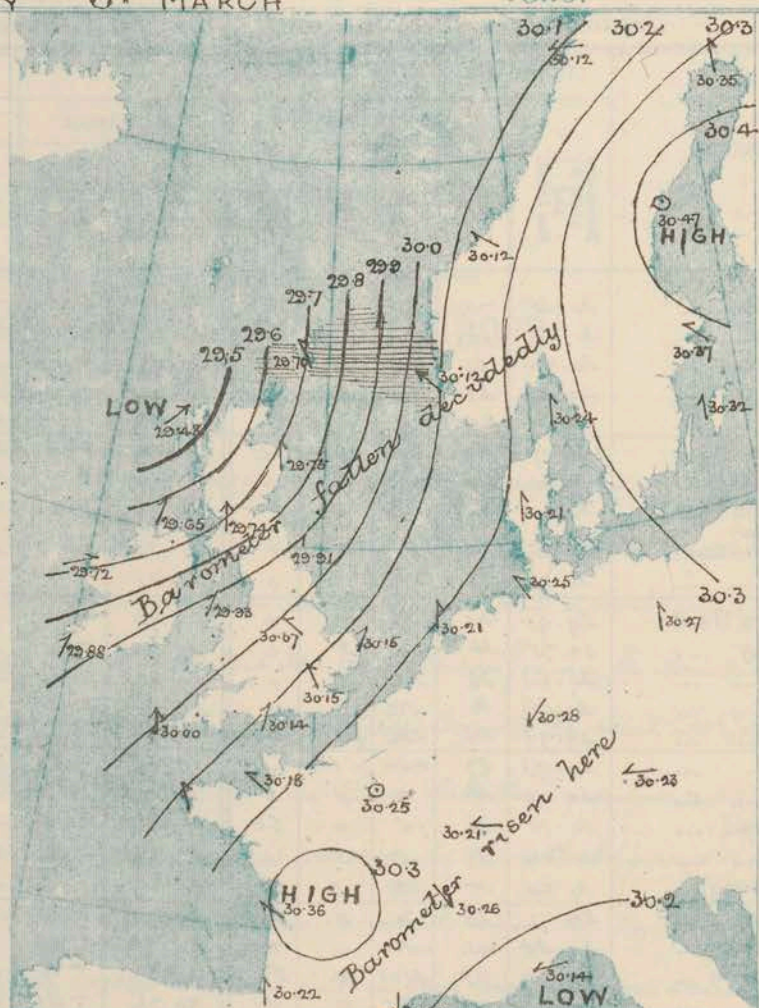
Sea Disturbance — where considerable, is shown thus:

— = Rough — = High.

MEAN HEIGHT of the BAROMETER.

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

STATIONS.	MEAN READINGS
Sumburgh Head	29.751
Stornoway	29.773
Wick	29.797
Nairn	29.815
Aberdeen	29.830
Leith	29.862
Shields	29.896
York	29.925
Loughborough	29.948
Ardrossan	29.876
Donaghadee	29.892
Holyhead	29.919
Liverpool	29.925
Parsonstown	29.940
Valencia	29.988
Roche's Point	29.941
Pembroke	29.944
Scilly	29.968
Jersey	29.971
Hurst Castle	29.986
Dover	29.955
LONDON	29.967
Oxford	29.966
Cambridge	29.957
Yarmouth	29.938



TEMPERATURE, & WEATHER at 8 A.M., with RAINFALL in PAST 24 HOURS.

Temperature — Isotherms are drawn for each 10° changes since previous morning are stated in words.

Weather — is shown by Letters of the Beaufort Scale.

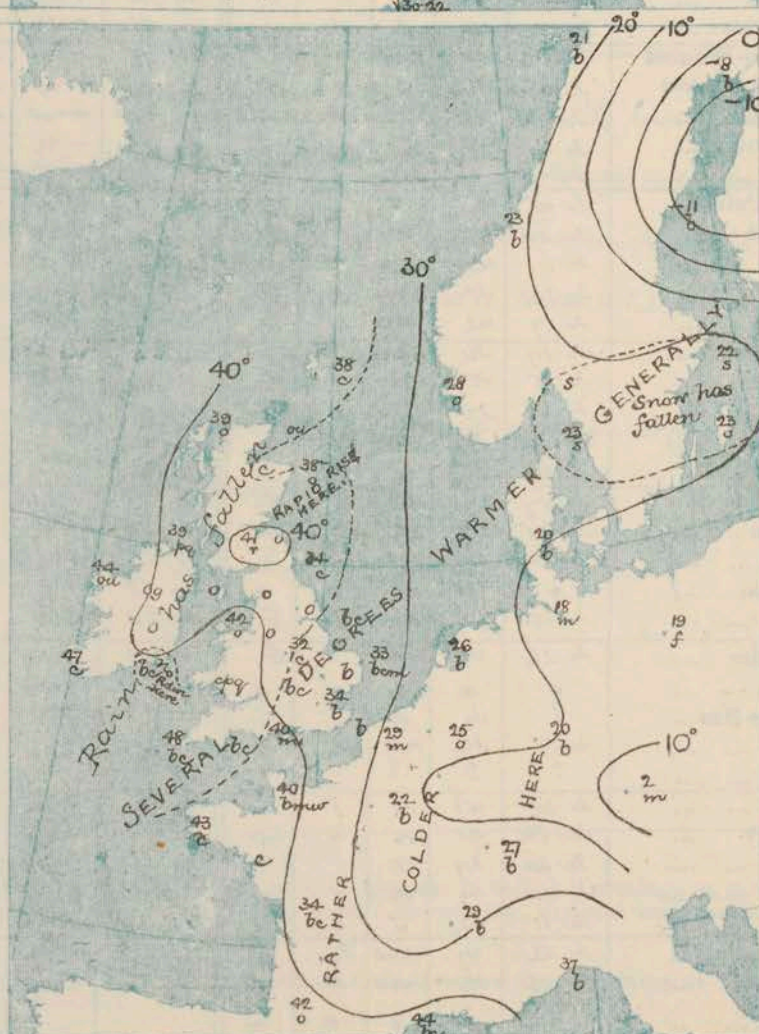
Rainfall — A dotted line separates the districts in which rain has fallen from those where there has been none. Falls of 0.5 in. or more, are quoted in figures.

MEANS OF TEMPERATURE IN SHADE.

AND RAINFALL.
for the month of March.

STATIONS	TEMPERATURE.				RAINFALL. (Inches).
	Daily Max	Daily Min	at 8 a.m.		
			Dry	Wet	
Sumburgh Head	42.6	34.0	38.5	37.1	2.92
Stornoway	44.9	34.4	39.2	38.0	3.87
Wick	44.7	33.9	39.1	37.2	1.97
Nairn	45.6	34.2	38.2	36.3	1.72
Aberdeen	45.4	34.7	38.9	36.8	2.24
Leith	43.2	34.6	39.7	37.9	1.86
Shields	45.0	35.4	39.6	38.0	1.60
York	48.9	33.7	38.6	37.1	1.63
Loughborough	49.8	34.3	39.5	37.7	1.47
Ardrossan	48.8	36.6	40.5	38.7	2.59
Donaghadee	47.3	37.1	41.0	39.7	1.99
Holyhead	47.6	35.2	42.5	41.0	2.21
Liverpool	47.3	37.1	40.8	38.7	1.69
Parsonstown	50.1	35.5	41.2	39.6	2.35
Valencia	51.6	40.6	45.4	43.4	4.24
Roche's Point	50.2	40.0	43.8	42.1	3.71
Pembroke	47.1	39.5	42.6	40.8	2.45
Scilly	49.9	43.0	46.5	44.7	2.38
Jersey	49.9	40.5	44.7	42.7	2.32
Hurst Castle	48.3	37.7	41.6	40.7	1.80
Dover	46.9	37.8	41.6	39.9	1.86
LONDON	50.6	35.8	40.6	38.7	1.43
Oxford	49.5	35.2	39.4	37.9	1.52
Cambridge	50.6	33.3	39.2	37.7	1.33
Yarmouth	45.7	35.8	40.8	39.1	1.77

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



GENERAL SITUATION AT 8 A.M.

PRESSURE	Highest 30.4 ins. and upwards over Sweden; 30.3 ins. and upwards over central France. Lowest 29.8 ins. and less in a depression lying off the northwest of Scotland. Gradients rather steep over the northern parts of our Islands and the North Sea, but slight elsewhere. Barometer falling at all but the French and German stations, - most in Scotland.
TEMPERATURE	Highest 62° at Lisbon, 48° at Seilly, 44° at Valencia, 44° at Belmullet, Pembroke and Perpignan, and 43° at Rocher Point, Prawle Point and Brest. Lowest -11° at Hermand, -8° at Haparanda, +2° at Munich, 18° at Cuxhaven, 19° at Berlin, 22° at Fano and Wiesbaden. Sharp frost was again experienced over England last night; in London the thermometer fell to 27° in the screen, & to 17° on the grass.
WIND	Chiefly S. (SE to SW); strong in force on our extreme north and northwest coasts, but light or moderate elsewhere. Light E. in the west of Norway, and the southern parts of Germany and France.
WEATHER	Cloudy in the west and north of our Islands, with rain at Ardrossan, and passing showers at Malin Head & Pembroke. Fine in most other localities, but snow reported in the south of Scandinavia. Since yesterday morning rain has fallen at most of our western and northern stations.
SEA	Rough off the north of Scotland, and rather rough at Skudesnaes, but moderate to smooth elsewhere.


PROBABLE CHANGES IN SYSTEM NOW PREVALENT


The depression off the northwest of Scotland will probably travel away in a northerly direction, but conditions are favourable for the advance of other disturbances towards our western coasts.

FORECASTS

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

DISTRICTS.	FORECASTS.	DISTRICTS.	FORECASTS.
0 { SCOTLAND NORTH	S. and SW. winds, strong; dull, some rain.	6 { SCOTLAND WEST	S. and SE. winds, fresh; dull, some rain.
1 { SCOTLAND EAST		7 { ENGLAND N.W.	
2 { ENGLAND N.E.		8 { ENGLAND S.W.	S. winds, increasing in force, unsettled, some rain.
3 { ENGLAND EAST	S. winds, moderate; fair at first, unsettled later.	9 { IRELAND NORTH	
4 { MIDLAND COUNTIES		10 { IRELAND SOUTH	
5 { ENGLAND SOUTH		WARNINGS	None Issued.

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

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

YESTERDAY'S 2 P.M. REPORTS.

	Bar.	Dry.	Wet.	Wind.	Wea.	Sea.		Bar.	Dry.	Wet.	Wind.	Wea.	Sea.
Skudesnaes ...							Holyhead ...	30.03	40	29	SW 5	2 m	4
Sumburgh Head ...	29.00	34	32	SE 5	oof	6	Valencia ...	2.07	50	45	WSW 3	bcw	3
Stornoway ...	29.74	27	27	SW 6	o	4	Scilly ...	2.09	48	45	S 4	c p	4
Aberdeen ...	29.77	25	22	SE 2	bcn	4	Jersey ...	30.13	44	39	E 3	bcn	3
Shields ...	30.04	34	33	S 2	sf	2	Dungeness ...	2.15	36	32	SE 3	c	2
Ardrossan ...	29.92	40	40	E 4	o	3	London ...	2.17	37	35	SE 2	bcn	*
Malin Head ...	29.88	45	44	WSW 3	f	2	Yarmouth ...	2.16	35	34	SW 2	bc	3
Mullaghmore ...	29.95	48	44	WSW 5	cm	3	Rochefort ...						
Belmullet ...	29.96	48	45	WSW 3	c	*							

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

Yesterday morning's observations showed that pressure was still high (30.2 ins. to 30.6 ins.) over Scandinavia, Poland, the Baltic and Russia, and also 30.0 ins. to 30.3 ins. and more, over the Spanish Peninsula. These two areas were separated by a broad low-pressure band which covered the British Islands, France, Italy, Greece and nearly the whole of the Mediterranean, and within it lay three shallow depressions, one off the west of Scotland, another off the southwest of France, and a third over northern Italy and the Gulf of Genoa; a fourth system lay near Malta. The wind was consequently SE⁴ to E⁴ over the whole of eastern and central Europe, the Baltic, North Sea and greater part of our Islands, but was of little strength; in France it was E⁴ or NE⁴, in Spain and the south of Ireland NW⁴, and, over the southern part of the Mediterranean, SW⁴ to NW⁴. Its force was light or moderate except at a few British stations, where the SE⁴ wind blew freshly, and at Biarritz where there was a moderate gale from W. The weather was rather showery in the west of our Islands, dull and rainy over the northern extremity of the Adriatic, fair as a whole elsewhere, and in many places clear. Temperature was changing irregularly, but remained low everywhere, especially over eastern and central Europe and the extreme east of Scotland. The lowest morning values recorded were -13° at Akerand, -12° at Helsingfors, -5° at St. Petersburg, -4° at Hernösand, 0° at Hangö, +3° at Uleaborg, 6° at Riga, Lemberg and Prague, 7° at Moscow, Kharkow and Warsaw, 9° at Munich, 10° at Aberdeen, Stockholm, Vienna, 13° at Berlin, 22° at Brussels, 23° at Paris, 28° at York, and 29° in London. At Nice it was 33°, at Florence 38°. The highest were 53° at Malta, 52° at Brindisi, 51° at Palermo and Corunna, 50° at Lisbon, 48° at Biarritz, and 44° at Scilly.

Little change occurred later beyond the tendency of the wind to become S⁴ over our Islands generally, with some recovery of temperature.

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 *Thursday, 7th March, 1889.*
 Issued by the Meteorological Office 63 Victoria Street, London. R. H. SCOTT, Secretary.

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STATIONS.	† YESTERDAY EVENING.					8 A.M. TO DAY.										PAST 24 HOURS.	
	Barometer at 32° F. Sea Level.	Temp. in Shade.	WIND.		Weather.	BAROMETER.		SHADE TEMP.			WIND.		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 ...	30.43	7	S	2	o	30.24	-14	5	5	+13	S	2	S	*	12	15	0.04
Hernösand ...	30.39	16	S	2	o	30.25	-12	8	8	+10	S	2	O	*	16	16	-
Stockholm ...	30.33	19	ESE	2	S	30.32	-05	15	15	-7	W	0	f	*	27	?	-
Wisby ...	30.28	26	SE	4	P	30.30	-02	26	26	+3	SE	4	f	*	30	14	-
Bodö ...	30.08	19	ESE	2	b	29.90	-12	20	14	-1	ESE	4	b	2	25	?	-
Christiansund...	29.46	43	ESE	2	P	29.67	-45	31	31	+8	SE	8	S	3	?	23	-
Skudesnaes ...	29.88	33	ESE	8	S	29.69	-48	34	34	+6	SSE	9	TS	7	?	27	-
Christiania Fjord (Farder)	30.19	27	S	4	bc	30.06	-20	28	28	+5	SSE	6	S	4	?	23	-
Skagen (The Seaw)	30.18	24	S	4	c	30.09	-15	26	24	+3	S	5	c	2	28	19	-
Fanö ...	30.16	25	S	5	o	30.02	-19	24	23	+4	SSE	6	o	*	32	19	-
BRITISH ISLANDS.																	
Sumburgh Head	29.45	40	SSE	3	o	29.29	-41	39	38	+1	S	3	c	6	41	38	0.09
Stornoway ...	29.38	38	W	5	P	29.31	-17	37	37	-2	SW	4	bc	4	41	34	0.19
Wick ...	29.42	35	W	3	bc	29.34	-25	37	35	-2	SW	3	bc	3	42	34	0.05
Nairn ...	29.44	37	WSW	2	c	29.37	-24	37	35	-1	SW	0	bc	1	46	32	0.10
Aberdeen...	29.56	38	SSW	3	c	29.48	-24	37	35	-1	S	2	om	4	40	35	0.01
Leith ...	29.61	40	SW	4	o	29.44	-34	39	37	-2	S	1	om	*	43	37	0.02
Shields ...	29.75	40	S	5	om	29.55	-36	36	35	+2	SW	2	cm	2	40	33	-
Spurn Head ...	29.88	40	S	5	o	29.60	-43	38	36	+4	S	6	o	4	42	33	-
York ...	29.83	43	S	2	o	29.55	-41	38	34	0	E	1	f	*	44	33	0.02
Loughborough	29.93	43	SSW	3	o	29.52	-55	34	33	+2	ESE	2	S	*	48	32	0.06
Ardrossan ...	29.61	42	SW	5	Op	29.46	-28	38	38	-3	ESE	2	o	2	43	37	0.14
Malin Head ...	29.58	43	SSW	4	bp	29.43	-22	39	37	0	S	2	bc	2	45	37	0.05
Mullaghmore ...	29.64	43	SW	5	om	29.44	-29	37	36	-3	SW	0	om	2	45	36	-
Belmullet ...	29.64	44	W	5	o	29.45	-27	39	38	-5	SSW	3	o	*	47	36	0.08
Donaghadee ...	29.69	39	WSW	4	P	29.47	-34	38	38	-1	ESE	3	P	2	44	37	0.38
Barrow-in-Furness	29.77	41	S	3	o	29.50	-42	38	35	+1	ESE	4	o	*	42	36	0.10
Liverpool (Bidston)	29.82	42	SSW	3	o	29.47	-50	36	35	0	ESE	3	o	3	45	36	-
Holyhead ...	29.79	44	SSW	5	mcp	29.43	-50	40	39	-2	HE	2	cm	2	46	38	0.06
Parsonstown ...	29.71	46	SW	0	o	29.45	-42	36	35	-1	SW	0	P	*	51	36	0.61
Valencia ...	29.68	47	ESE	1	o	29.42	-46	42	40	-5	HE	5	og	5	51	42	0.59
Roche's Point...	29.71	45	S	3	P	29.88	-54	43	42	0	ESE	4	P	5	49	42	0.45
Pembroke ...	29.82	45	SSE	5	c	29.31	-67	40	39	-1	E	5	c	4	47	37	0.13
Scilly ...	29.76	47	SSE	6	P	29.27	-73	50	50	+2	SW	4	f	6	52	43	0.42
Prawle Point ...	29.91	44	SE	5	bc	29.34	-75	49	49	+6	SSW	6	f	5	49	39	0.19
Jersey ...	30.01	45	ESE	3	cgm	29.49	-69	47	46	+7	S	7	opm	5	48	39	0.20
Hurst Castle ...	30.00	42	S	3	bc	29.49	-65	44	44	+4	SSW	7	P	3	46	40	0.30
Dungeness ...	30.08	41	SSW	4	c	29.59	-54	38	36	+1	S	7	P	5	45	35	0.15
London ...	30.02	39	SSW	2	bc	29.51	-64	38	37	+4	SSE	4	TS	*	48	34	0.06
Oxford ...	29.95	37	SW	2	b	29.45	-67	35	34	+3	SE	3	TS	*	46	32	0.23
Cambridge ...	29.99	39	S	1	b	29.52	-60	35	34	+3	SSE	2	S	*	46	30	0.34
Yarmouth ...	30.02	37	S	5	cf	29.64	-51	38	36	+5	SSE	6	cgm	5	38	33	-
Cuxhaven ...	30.26	29	SSE	2	b	30.07	-18	23	22	+5	SSE	3	bc	*	29	?	-
Berlin ...	30.33	27	SW	0	b	30.28	+01	12	12	-7	SSE	1	f	*	32	9	-
Wiesbaden ...	*	*	*	*	*	30.11	-17	23	22	+3	SW	0	b	*	37	19	-
Munich ...	30.26	17	SW	0	b	30.17	-06	10	10	+8	SE	3	b	*	25	1	-
FRANCE & NETHERLANDS.																	
The Helder ...	30.11	32	SSE	1	c	29.87	-34	31	30	+5	SSE	1	c	2	37	?	-
Brussels ...	*	*	*	*	*	29.86	-39	37	35	+12	SE	3	o	*	42	?	-
Cape Gris Nez...	?	39	SSE	1	bc	?	?	37	33	+8	S	5	o	5	45	28	-
Paris ...	30.15	38	SSE	2	bc	29.84	-41	37	32	+15	S	4	o	*	47	?	-
Brest ...	? 29.89	46	S	7	P	? 29.45	-72	49	47	+6	SSW	7	P	8	48	?	0.67
Lorient ...	29.95	45	SSE	5	o	29.54	-63	50	50	+8	SSW	6	P	7	?	41	0.71
Rochefort ...	30.10	48	SSE	4	o	29.83	-43	43	43	+9	SSE	5	P	3	?	37	0.24
Belfort ...	30.13	31	E	1	b	30.04	-17	33	32	+6	HE	3	c	*	40	25	-
Lyons ...	30.22	38	SW	0	b	30.05	-21	35	32	+6	SSE	3	c	*	45	29	-
Nice ...	30.15	44	SW	0	b	30.18	+04	39	36	+2	HE	3	bc	1	52	34	-
Perpignan ...	30.17	48	SE	1	o	29.99	-23	39	38	-5	SW	2	o	*	57	35	-
Biarritz ...	? 30.02	56	S	3	o	? 29.82	-40	55	47	+13	SW	5	o	1	61	?	-
SPAIN.																	
Corunna ...	*	*	*	*	*	? 29.69	-34	55	53	+2	S	7	c	3	57	50	0.20
Lisbon ...	30.10	55	SSW	5	o	29.93	-32	53	52	+1	S	4	P	4	57	52	0.16

For Explanation of Columns, see p. 4.

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

It will be observed that the front page of yesterday's Report was dated February instead of March. The 8 a.m. bar-reading at Rochefort should have read "30.26" and not "30.36".

WEATHER CHARTS

Thursday, 7th March.
for 8 a.m. on

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.

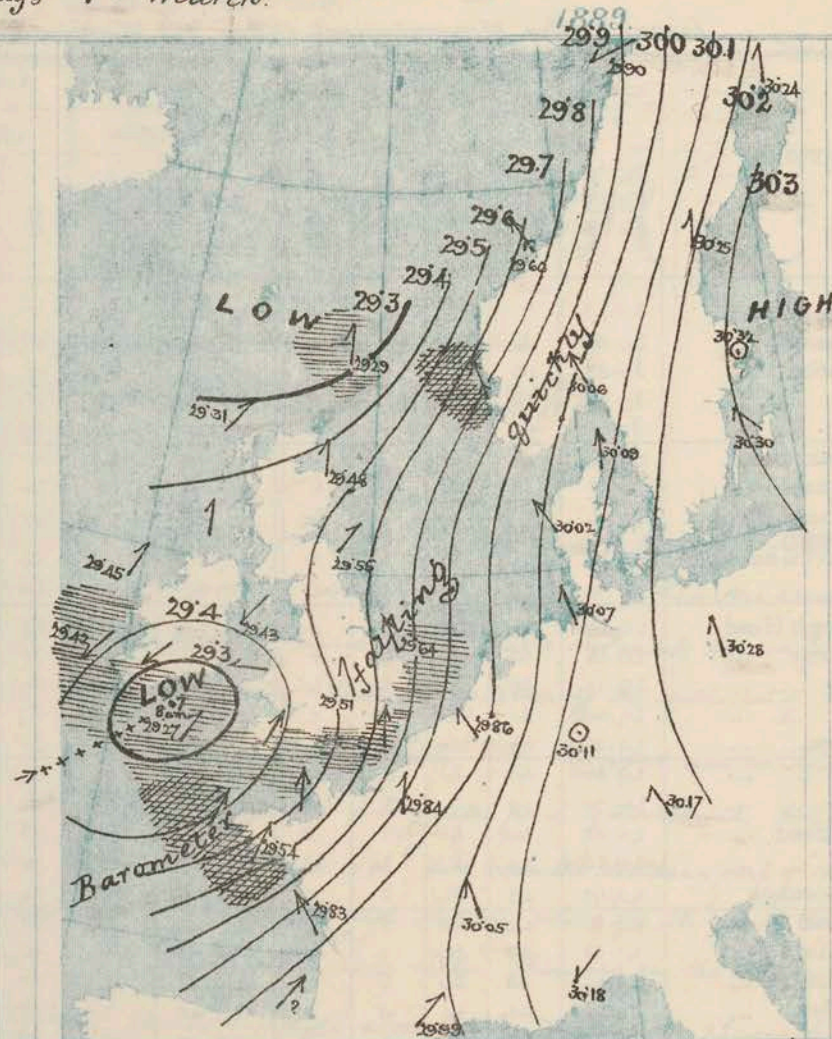
Sea Disturbance — where considerable, is shown thus.

— Rough — High

MEAN HEIGHT of the BAROMETER

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

STATIONS.	MEAN READINGS.
Sumburgh Head	29.751
Stornoway	29.779
Wick	29.797
Nairn	29.815
Aberdeen	29.830
Leith	29.862
Shields	29.896
York	29.925
Loughborough	29.948
Ardrossan	29.876
Donaghadee	29.892
Holyhead	29.919
Liverpool	29.925
Parsonstown	29.940
Valencia	29.938
Roche's Point	29.941
Pembroke	29.944
Scilly	29.966
Jersey	29.971
Hurst Castle	29.966
Dover	29.955
LONDON	29.967
Oxford	29.968
Cambridge	29.957
Yarmouth	29.939



TEMPERATURE, & WEATHER at 8 A.M., with RAINFALL in PAST 24 HOURS.

Temperature — Isotherms are drawn for each 10° changes since previous morning are stated in words.

Weather — is shown by Letters of the Beaufort Scale.

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

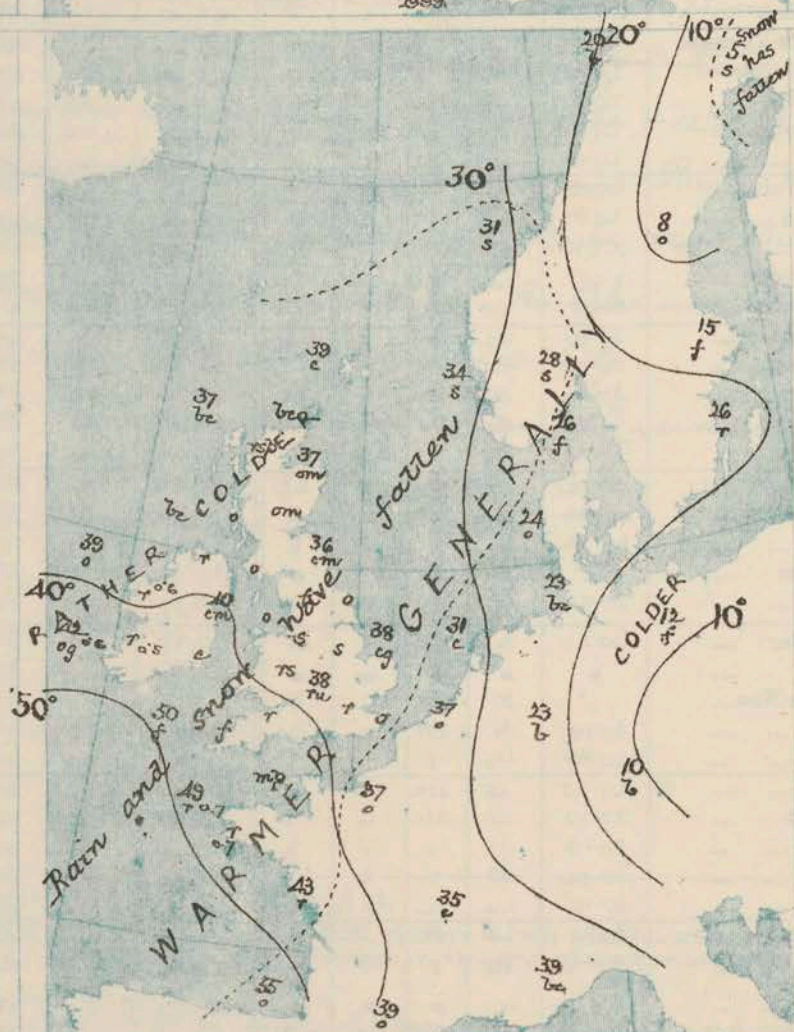
MEANS OF TEMPERATURE IN SHADE.

AND RAINFALL

for the month of March.

STATIONS.	TEMPERATURE.				RAINFALL. (Inches)
	Daily Max.	Daily Min.	At 8 a.m.	Wet.	
Sumburgh Head	42.6	34.0	38.5	37.1	2.93
Stornoway	44.9	34.4	39.2	38.0	3.87
Wick	44.7	33.9	39.1	37.2	1.97
Nairn	45.6	34.2	38.2	36.3	1.72
Aberdeen	45.4	34.7	38.9	36.8	2.24
Leith	48.2	34.6	39.7	37.9	1.36
Shields	45.9	35.4	39.6	38.0	1.60
York	48.9	33.7	38.6	37.1	1.69
Loughborough	49.8	34.3	39.5	37.7	1.47
Ardrossan	48.8	36.6	40.5	38.7	2.59
Donaghadee	47.3	37.1	41.0	39.7	1.59
Holyhead	47.8	39.2	42.5	41.0	2.21
Liverpool	47.3	37.1	40.8	38.7	1.69
Parsonstown	50.1	35.5	41.2	39.6	2.35
Valencia	51.8	40.6	45.4	43.4	4.24
Roche's Point	50.2	40.0	43.8	42.1	3.71
Pembroke	47.1	39.5	42.6	40.8	2.45
Scilly	49.9	43.0	46.5	44.7	2.38
Jersey	49.9	40.5	44.7	42.7	2.32
Hurst Castle	48.3	37.7	41.6	40.7	1.80
Dover	46.9	37.8	41.6	39.9	1.86
LONDON	50.6	35.8	40.6	38.7	1.43
Oxford	49.5	35.2	39.4	37.9	1.52
Cambridge	50.6	33.3	39.2	37.7	1.33
Yarmouth	45.7	35.8	40.8	39.1	1.77

NOTE — The Temperature means are for the 15 years 1871—85, the Rainfall means are mainly those for the 25 years 1866—85.



GENERAL SITUATION AT 8 A.M.

PRESSURE

Highest, 30.3 in. and upwards, over the Baltic and Gulf of Finland.
 Lowest, 29.8 in. and less, in a depression lying off the north of Scotland, and also in another disturbance lying over our southwest coasts.
 Gradients slight over our western and northern coasts, but rather steep elsewhere.
 Barometer falling generally—quickly in the south of England.

TEMPERATURE

Highest, 55° at Biarritz, 53° at Lisbon, 50° at Seilly, and 48° at Havre Point and Brest, and 47° at Jersey.
 Lowest, 5° at St. Petersburg, 8° at Helsingfors, 10° at Munich, 12° at Berlin, 15° at Stockholm, and 20° at Rode.

WIND

Strong to gale from the S.W. over the south and east of our Islands and the North Sea, and from S.E. in the west of Norway.
 Light or moderate from the S.W. in Scotland, Sweden, Germany and Central France.
 Light or moderate from E. or N.E. over the Irish Sea, the St. George's Channel, and the south of Ireland.

WEATHER

Cloudy or overcast generally, with fog in the southwest of England, rain in Ireland, the south of England, and the west of France, and snow over the Midland counties and the S. of Norway.
 In Germany, the south of France and the north of Scotland the weather is at present fine.
 Heavy rain has fallen in the south of Ireland and solar halos were observed yesterday at Loughborough, Jersey, and Biarritz.

SEA

Very high off the northwest of France, rough at Lumburg Ht. and Seilly, rather rough on our south and southeast coasts generally.

PROBABLE CHANGES IN SYSTEM NOW PREVALENT

The depression in the southwest will probably travel over our Islands in a northerly or north-northeasterly direction.
 As the barometer is falling steadily at Lisbon, while the wind there is backing, with rain, it is not unlikely that another disturbance will shortly approach our Islands from the southwestward.

FORECASTS

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

DISTRICTS.		FORECASTS.	
0	SCOTLAND NORTH	{	S ^w winds, light, to SE ^w , fresh; changeable, some rain or sleet.
1	SCOTLAND EAST		
2	ENGLAND N.E.	{	S ^w strong winds or gales, moderating later; squally, some rain.
3	ENGLAND EAST		
4	MIDLAND COUNTIES	{	S ^w to SW ^w strong winds or gales; squally and rainy at first, but improving temporarily later.
5	ENGLAND SOUTH		

DISTRICTS.		FORECASTS.	
6	SCOTLAND WEST	{	E ^w to Variable breezes; changeable, some rain
7	ENGLAND N.W.		
8	ENGLAND S.W.	{	SW ^w to S ^w winds, strong to a gale; unsettled, some rain.
9	IRELAND NORTH		
10	IRELAND SOUTH	{	Light or moderate breezes, chiefly N ^w ; changeable, some rain or sleet.
WARNINGS			
		The SOUTH CONE was hoisted last evening in districts 3, 5, 8 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 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.
Skudesnace ...	30.03	30	27	SE 8	S	5	Holyhead ...	29.55	45	44	SSW 5	o q	5
Sumburgh Head ...	29.55	30	38	SSW 4	o	6	Valencia ...	29.78	49	45	S 4	o	4
Stornoway ...	29.35	30	39	S 5	7	4	Scilly ...	29.88	50	48	S 5	cp	5
Aberdeen ...	29.61	40	38	S 5	agpg	4	Jersey ...	30.09	47	42	SSW 4	bc	3
Shields ...	29.81	40	38	SSW 3	om	2	Dungeness ...	30.09	43	40	SW 4	bc	3
Ardrossan ...	29.65	43	42	SW 6	p	5	London ...	30.06	48	41	SSW 3	bc	*
Malin Head ...	29.59	44	41	W 4	c	4	Yarmouth ...	30.08	38	37	S 4	cm	4
Mullaghmore ...	29.67	45	42	SW 6	agpg	5	Rochefort ...	30.21	51	45	SE 3	c	2
Belmullet ...	29.69	45	44	W-SW 5	o	*							

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

The reports for yesterday morning showed that pressure varied from between 30.3 ins. and 30.8 ins. in a large anticyclone lying over Russia and Poland, and from between 30.2 ins. and 30.3 ins. in a broad "col" which extended thence across Germany and France to Spain, to 29.5 ins. and less in a depression lying off our extreme northwest coast, to less than 30 ins. in a new disturbance advancing towards the Bay of Biscay from the SW, and to less than 30.1 ins. in a large shallow area of low pressure, which covered all the eastern and southern parts of the Mediterranean and the Balkan Peninsula. SE winds had become general over Western Europe and the North Sea, and blew freshly at some of the British stations, SE to S breezes over the Baltic and North Germany, variables over Western Germany and France. Over the eastern and northern parts of the Mediterranean the wind was mainly N (NE to NW), but in Algeria it varied between SSW and SSE. The weather was changing greatly; at the extreme western stations it was beginning to assume an unsettled appearance, and rain was falling in some places and had been general, but not heavy, in the west and north of the British Isles during the previous day, heavy over the northern parts of the Adriatic, and in some portions of Algeria. Over Eastern and Central Europe the weather was finer than of late. Temperature had begun to rise decidedly over Northern Europe, but remained low over the Eastern, Central, and Southern countries; it was below zero in many parts of Russia, and much below the freezing point over Scandinavia, the Baltic, Germany and France. Over the British Isles the frost was giving way. The lowest morning temperatures were -14° at Helsingfors, -12° at Kuopio, -11° at Helsingfors, -8° at Stockholm, -3° at St. Petersburg and also at Riga, +1° at Kief, Warsaw and Munich, 3° at Archangel and Kiev, 7° at Cracow, 11° at Leningrad, 13° at Berlin, 22° at Paris, 25° at Brussels. In London and at Florence the temperature was 34°, at Nice 37°, and at Rome 38°. The highest values were 53° at Oren and Bouma, 52° at Lisbon, Algiers and Tunis, 50° at Barcelona, 45° at Sanguinaria, 48° at Seville, and 47° at Valencia.

Later in the day the depression in the northwest passed off, but the new one in the southwest continued to approach the mouth of the Channel, and unsettled weather became general over the United Kingdom and west and north of 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 Friday, 8th March

1889.

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

Issued by the Meteorological Office 65 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 ..	30.15	19	S	2	0	29.98	-.26	21	20	+ .16	SSW	2	0	*	?	3	0.12	
Hernösand ...	30.07	21	S	8	S	30.03	-.22	25	24	+ .17	SSW	6	S	*	?	1	0.04	
Stockholm ...	30.28	25	SW	1	0	30.06	-.26	27	25	+ .12	SE	4	0	*	27	14	-	
Wisby ...	30.26	26	S	4	0	30.09	-.21	26	26	0	S	4	0	*	28	21	-	
Bodö ...																		
Christiansund...																		
Skudesnaes ...	29.67	36	SE	7	0	29.28	-.41	33	32	- .1	E	6	S	5	36	32	-	
Christiania Fjord (Fjorder)	29.95	31	SSE	5	0	29.68	-.38	28	28	0	SE	5	S	4	32	25	-	
Skagen (The Seaw)	29.68	30	S	6	0	29.58	-.51	28	28	+ .2	S	7	S	3	30	25	0.04	
Fanö ...	29.69	30	SSE	6	S	29.53	-.49	34	33	+ .10	SSE	6	C	*	34	23	0.16	
BRITISH ISLANDS.																		
Sumburgh Head	29.34	40	SSW	4	0	29.25	-.04	37	36	- .2	W	0	C	5	44	34	0.05	
Stornoway ...	29.29	39	W	2	r	29.26	-.05	35	34	- .2	W	2	bc	3	44	32	0.07	
Wick ...	29.32	36	NW	1	b	29.26	-.11	29	28	- .8	NW	1	b	1	45	27	-	
Nairn ...	29.30	39	SSW	1	C	29.28	-.09	34	33	- .3	NW	1	b	1	46	29	-	
Aberdeen...	29.37	37	SSE	2	omg	29.31	-.17	32	31	- .5	W	2	b	4	39	30	0.15	
Leith ...	29.34	40	NE	1	0	29.32	-.12	35	34	- .4	W	1	bm	*	40	33	-	
Shields ...	29.31	38	N	2	om	29.32	-.23	36	35	0	W	1	m	2	38	34	-	
Spurn Head ...	29.28	38	W	0	f	29.29	-.31	36	36	- .2	N	3	r	3	38	34	0.29	
York ...	29.30	37	NE	1	0	29.30	-.25	35	35	0	N	1	r	*	38	32	0.15	
Loughborough	29.30	38	NW	1	r	29.32	-.20	34	34	0	N	1	rfg	*	40	33	0.75	
Ardrossan ...	29.34	40	NE	1	0	29.33	-.13	36	36	- .2	N	1	bcpr	0	42	33	-	
Malin Head ...	29.34	42	W	1	b	29.34	-.09	39	38	0	S	2	b	2	46	37	-	
Mullaghmore ...	29.37	43	NW	3	0	29.37	-.07	40	38	+ .3	NW	5	bcpr	4	46	36	0.03	
Belmullet ...	29.41	44	NW	4	bc	29.40	-.05	38	38	- .1	NW	2	b	*	45	35	0.05	
Donaghadee ...	29.36	41	NE	3	0	29.36	-.11	35	35	- .3	NE	3	bc	1	42	34	0.03	
Barrow-in-Furness	29.31	39	NNE	2	0	29.31	-.19	35	35	- .3	ESE	2	om	*	40	35	0.02	
Liverpool (Bidston)	29.31	38	E	1	0	29.33	-.14	36	35	0	N	1	0	2	40	32	0.17	
Holyhead ...	29.32	40	NE	4	ogm	29.33	-.10	41	40	+ .1	NNE	3	om	3	43	38	0.03	
Parsonstown ...	29.38	41	W	0	0	29.41	-.04	30	29	- .6	W	0	0	*	43	29	0.06	
Valencia ...	29.41	45	N	2	og	29.44	+ .02	42	38	0	N	1	b	1	45	40	0.03	
Roche's Point...	29.36	40	NE	4	r	29.38	0.00	40	37	- .3	N	4	C	4	45	36	0.30	
Pembroke ...	29.26	41	NNE	3	r	29.29	-.02	39	38	- .1	NE	3	rgm	2	42	38	0.10	
Scilly ...	29.23	51	SW	6	fg	29.18	-.09	40	40	- .10	NNE	7	r	6	51	40	0.90	
Prawle Point ...	29.31	49	SSW	6	S	29.19	-.15	48	48	- .1	S	5	m	5	49	45	0.28	
Jersey ...	29.45	50	S	4	og	29.33	-.16	49	48	+ .2	SSE	5	bcnu	5	50	46	0.26	
Hurst Castle ...	29.35	48	SSW	8	rm	29.29	-.20	48	47	+ .4	SSW	8	C	5	49	44	0.43	
Dungeness ...	29.44	45	S	7	r	29.39	-.20	44	44	+ .6	S	6	r	5	45	37	0.45	
London ...	29.36	49	S	5	r	29.27	-.24	49	48	+ .11	S	4	od	*	50	38	0.35	
Oxford ...	29.29	49	S	4	r	29.27	-.18	39	39	+ .4	NW	1	rgm	*	51	35	0.35	
Cambridge ...	29.32	49	S	2	0	29.30	-.22	49	48	+ .14	SW	2	r	*	50	33	0.80	
Yarmouth ...	29.38	42	SSW	6	rgm	29.34	-.30	43	42	+ .5	SSW	4	ogm	4	44	33	0.56	
Cuxhaven ...	29.32	34	SSE	6	0	29.65	-.42	36	36	+ .13	S	4	bc	*	36	?	-	
Berlin ...	30.10	28	ESE	3	b	29.95	-.33	22	21	+ .10	SE	4	bc	*	36	?	-	
Wiesbaden ...	*	*	*	*	*	29.80	-.31	37	35	+ .14	SE	2	0	*	43	?	-	
Munich ...	29.99	22	E	2	b	29.91	-.26	17	16	+ .7	SE	2	C	*	30	10	-	
FRANCE & NETHERLANDS.																		
The Helder ...	29.52	38	S	4	r	29.48	-.39	40	40	+ .9	S	2	r	3	41	?	0.35	
Brussels ...	*	*	*	*	*	29.57	-.29	44	42	+ .7	SSE	3	0	*	45	?	0.08	
Cape Gris Nez...	?	47	SSW	5	r	?	?	46	45	+ .9	SW	6	0	6	48	36	0.89	
Paris ...	29.71	47	S	4	0	29.60	-.24	46	44	+ .9	S	2	0	*	51	?	0.08	
Brest ...	? 29.47	50	SW	6	r	? 29.28	-.17	51	51	+ .2	SSW	6	r	7	?	45	0.79	
Lorient ...	29.50	50	SSW	5	r	29.34	-.20	51	49	+ .1	SSW	4	0	5	52	48	0.20	
Rochefort ...	29.74	49	S	5	0	29.61	-.22	47	46	+ .4	S	5	0	3	52	41	0.12	
Belfort ...	29.91	36	W	1	C	29.83	-.21	38	38	+ .5	W	1	r	*	46	?	0.12	
Lyons ...																		
Nice ...	30.15	43	W	3	r	30.02	-.16	40	40	+ .1	NE	4	r	4	52	?	0.24	
Perpignan ...	29.78	56	SSW	3	C	29.75	-.24	46	?	+ .7	W	0	0	*	66	?	-	
Biarritz ...	? 29.72	57	SSW	5	r	? 29.57	-.25	58	48	+ .3	S	6	0	3	59	54	-	
Corunna ...	*	*	*	*	*													
Lisbon ...	29.80	57	SSW	5	r	29.68	-.25	57	56	+ .14	SSW	5	0	4	57	?	0.83	

For Explanation of Columns, see p. 2.

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

WEATHER CHARTS

for 8 a.m. on Friday, 8th March.

1889.

BAROMETER, WIND & SEA.

(Explanation of Map)

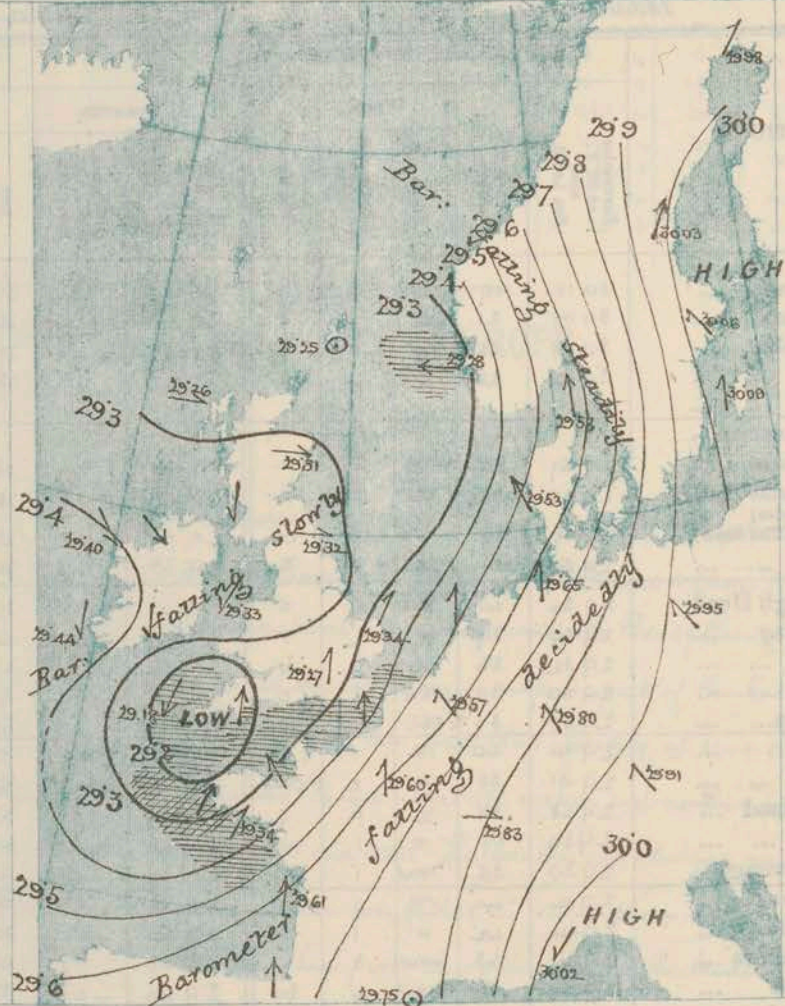
Barometer — Isobars are drawn for each tenth of an inch. Changes since previous morning are stated in words.
Wind — Arrows show the prevalent winds. They fly with the wind and their barbs and feathers refer to force, thus —
 — = forces above 10; — = forces 8 to 10;
 — = forces 5 to 7; — = forces 1 to 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 March.
 During the 15 Years 1871–85.

STATIONS.	MEAN READINGS.
Sumburgh Head	29.751
Stornoway	29.779
Wick	29.797
Nairn	29.815
Aberdeen	29.830
Leith	29.862
Shields	29.896
York	29.925
Loughborough	29.948
Ardrossan	29.876
Donaghadee	29.893
Holyhead	29.919
Liverpool	29.925
Parsonstown	29.940
Valencia	29.988
Roche's Point	29.941
Pembroke	29.944
Scilly	29.968
Jersey	29.971
Hurst Castle	29.966
Dover	29.955
LONDON	29.967
Oxford	29.966
Cambridge	29.957
Yarmouth	29.938



TEMPERATURE, & WEATHER at 8 A.M., with RAINFALL in PAST 24 HOURS.

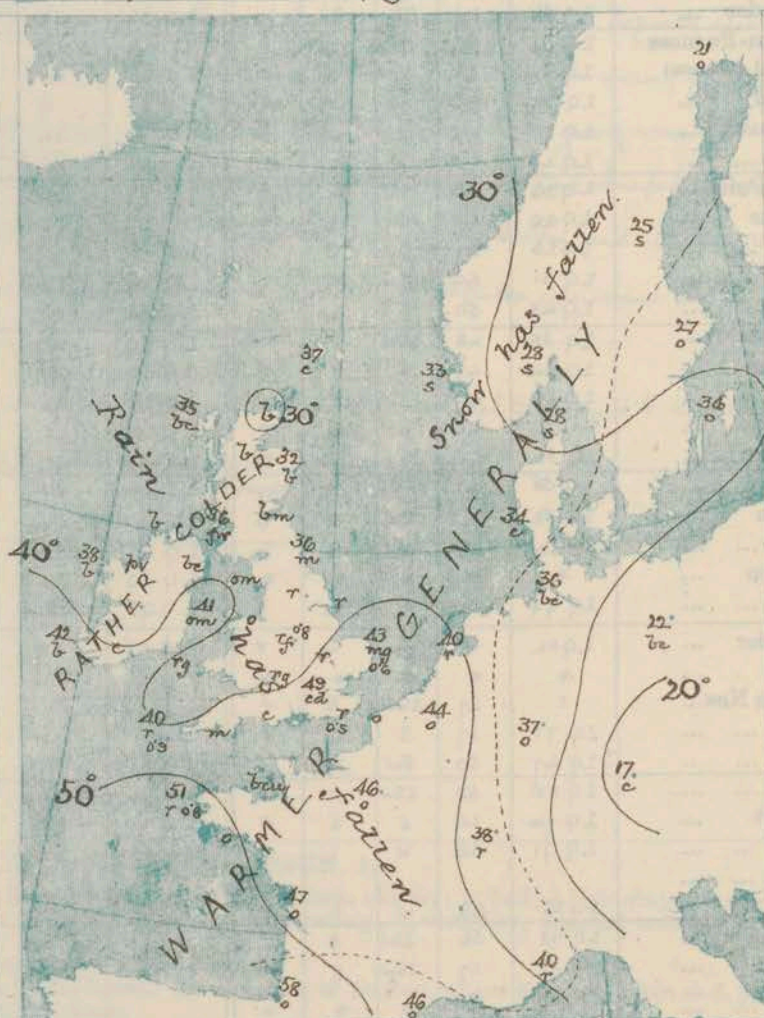
Temperature — Isotherms are drawn for each 10° changes since previous morning are stated in words.
Weather — is shown by letters of the Beaufort Scale.
Rainfall — A dotted line separates the districts in which rain has fallen from those where there has been none. Falls of 0.5 in. or more, are quoted in figures.

MEANS OF TEMPERATURE IN SHADE.

AND RAINFALL.
 for the month of March.

STATIONS	TEMPERATURE				RAINFALL (Inches)
	Daily Max.	Daily Min.	at 8 a.m. Dry	Wet	
Sumburgh Head	42.6	34.0	38.5	37.1	2.92
Stornoway	44.9	34.4	39.2	38.0	3.87
Wick	44.7	33.9	39.1	37.2	1.97
Nairn	46.8	34.2	38.2	36.3	1.72
Aberdeen	45.4	34.7	39.9	36.8	2.24
Leith	48.2	34.6	39.7	37.9	1.36
Shields	46.9	35.4	39.6	38.0	1.60
York	48.9	33.7	38.6	37.1	1.63
Loughborough	49.8	34.3	39.5	37.7	1.47
Ardrossan	46.8	36.6	40.5	38.7	2.59
Donaghadee	47.3	37.1	41.0	39.7	1.99
Holyhead	47.6	39.2	42.5	41.0	2.21
Liverpool	47.3	37.1	40.8	38.7	1.69
Parsonstown	50.1	35.5	41.2	39.6	2.35
Valencia	51.6	40.6	45.4	43.4	4.24
Roche's Point	50.2	40.0	43.8	42.1	3.71
Pembroke	47.1	39.5	42.6	40.8	2.45
Scilly	49.9	43.0	46.5	44.7	2.38
Jersey	49.9	40.5	44.7	42.7	2.32
Hurst Castle	48.3	37.7	41.6	40.7	1.80
Dover	46.9	37.8	41.6	39.9	1.86
LONDON	50.6	35.8	40.6	38.7	1.43
Oxford	49.5	35.2	39.4	37.9	1.52
Cambridge	50.6	33.3	39.2	37.7	1.33
Yarmouth	45.7	35.8	40.8	39.1	1.77

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



GENERAL SITUATION AT 8 A.M.

PRESSURE

Highest, 30.0 ins. and upwards, over the Gulf of Bothnia, and the Baltic as well as in the southeast of France.
 Lowest, 29.2 ins. and less, in a small depression lying over the southwest of England and the mouth of the Channel, 29.3 ins. and less over the south of England, the North Sea, and the north of Scotland.
 Gradients rather steep to the eastward and southward of our islands, but slight elsewhere.
 Barometer falling generally, slightly in our islands, but briskly on the eastern shores of the North Sea.

TEMPERATURE

Highest, 58° at Biarritz, 57° at Lisbon, 51° at Brest and Genoa, 48° at Jersey, Cambridge and in London, and 46° at Howle Point.
 Lowest, 17° at Munich, 21° at Haparanda, 22° at Berlin, 25° at Helsingfors, 26° at Umeå, and 27° at Stockholm.
 Frost was experienced last night in the north of Scotland.

WIND

Light from the W. in Scotland, and from the N. or N.E. over Ireland, Wales, and the north of England.
 S. or S.E. elsewhere; fresh or strong in force in most places, with a gale at Hurst Castle.

WEATHER

Fine at most of the Irish and Scotch stations, as well as in Germany.
 B. elsewhere, with rain over England, and snow in Scandinavia and the north of Denmark.
 Since yesterday morning 0.9 in. of rain has fallen at Kelly, 0.8 in. at Loughborough and Brest, 0.6 in. at Yarmouth, and 0.5 in. at Dumfries.

SEA

High at Brest, rough in the Channel and rather rough off the north of Scotland, but moderate or slight elsewhere.

PROBABLE CHANGES IN SYSTEM NOW PREVALENT

The changes in pressure are very irregular, but the trough of low readings noticed above is apparently spreading in an easterly direction. The strong S. winds in the Channel will probably moderate gradually.

FORECASTS

For the 24 hours ending at NOON on 9th MARCH 1889.

DISTRICTS.

FORECASTS.

0	SCOTLAND NORTH	Light breezes, chiefly W ^{ly} or NW ^{ly} ; fair to showery.
1	SCOTLAND EAST	
2	ENGLAND N.E.	Variable or N ^{ly} breezes; changeable, some rain.
3	ENGLAND EAST	S ^{ly} to Variable breezes; unsettled, some rain.
4	MIDLAND COUNTIES	Same as No 2
5	ENGLAND SOUTH	S ^{ly} winds, moderating in force; unsettled, some rain.

DISTRICTS.

FORECASTS.

6	SCOTLAND WEST	Same as No 2
7	ENGLAND N.W.	
8	ENGLAND S.W.	N ^{ly} winds, fresh or strong; changeable, some rain.
9	IRELAND NORTH	N ^{ly} and NW ^{ly} winds, moderate or fresh; changeable, some rain.
10	IRELAND SOUTH	

WARNINGS

The SOUTH CONE is still flying in districts 3, 5, and 8, but has been lowered elsewhere.

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 ...	29.72	36	34	SSE 9	0	7	Holyhead ...	29.32	40	39	NE 4	bm	3
Samburgh Head ...	29.34	44	41	SSW 3	6	5	Valencia ...	29.40	45	42	NHE 3	og	3
Stornoway ...	29.28	43	42	SW 4	0	4	Scilly ...	29.25	47	47	EHE 1	r f	6
Aberdeen ...	29.48	36	35	S 2	Or m	3	Jersey ...	29.46	50	48	SSW 5	0	4
Shields ...	29.37	38	37	SSE 3	0	2	Dungeness ...	29.45	43	43	SSW 7	r	5
Ardrossan ...	29.37	41	40	E 1	0	1	London ...	29.38	50	48	S 5	od	*
Malin Head ...	29.36	45	42	S 2	6	2	Yarmouth ...	29.41	38	37	SSE 7	rggm	5
Mullaghmore ...	29.38	44	42	WSW 4	c	2	Rochefort ...	29.79	50	48	SSW 5	0	3
Belmullet ...	29.41	44	42	WtW 2	bc	*							

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

The report for yesterday morning showed that pressure was still highest, 30.3 ins. to 30.2 ins., over Russia the Eastern Baltic, and Iceland, while it was lowest off our northwestern and southeastern coasts, the gradient being rather steep in some parts of our Island and France, moderate over southern, and slight over Eastern and northeastern Europe. A depression lying off the north of Scotland was apparently passing away to the N^W, another had advanced to the mouth of St. George's Channel from the S^W, while the barometer was still falling at all the western stations, and the change was spreading eastwards. The wind had become S^W over nearly the whole of Western and Northwestern Europe, and blew with the force of a moderate gale over the Bay of Biscay, and the Channel, and a fresh gale in the west of Norway, while it was moderate or light over France, Germany, the Baltic, and the Gulf of Bothnia. On parts of our western coasts, however, it was E^W (owing to the depression near Scilly). In E^W to NE^W wind blew over Southern Russia and the northeastern shores of the Mediterranean, drawing round to N. in Italy and Sicily, and to NW at Malta; its force, however, was moderate. The weather had become very unsettled over the United Kingdom and west of France with steady rain at the more southern stations, snow and sleet in the north, but over the more eastern and southern countries conditions were fair generally; at Palermo, however, rain was falling. Temperature had increased considerably over France, and was considerably above the freezing point over Western Europe generally; in Germany, Austria, Poland, and Sweden hard frost still held, and over Central Russia the readings were below zero. The lowest individual values were -9° F. at Archangel, -8° at Moscow, -3° at Kuopio, -1° at Kiev, +4° at Helsinki, 5° at Haparanda, 10° at Munich, 12° at Berlin, 13° at Prague, 15° at Stockholm, 20° at Rode and Macaboden, 23° at Munster, and 32° at Rome; the highest were (?) 57° at Cagliari, 55° at Algiers, Barcelona, Corunna, Bilbao, and Biarritz, 53° at Malta and Lisbon, 50° at Scilly and Lorient, 49° at Cape Point and 47° at Jerez; at Brussels and Paris temperature was 37°, in London 38°, and at Leith 39°.

Rain fell very generally over Western Europe during the day, heavily in some places, and the distribution of pressure was of a very unsettled type.

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, 9th March, 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 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 ..	29.91	21	S	2	O	† 29.70	- .28	22	22	+ 1	SW	4	S	*	27	9	0.51	
Hernösand ...	29.54	27	S	8	S	† 29.74	- .29	30	30	+ 5	S	6	S	*	30	25	0.51	
Stockholm ...	29.85	28	S	4	O	† 29.84	- .12	30	28	+ 3	S	4	O	*	30	25	-	
Wisby ...	29.94	28	SSE	6	bc	† 29.91	- .18	28	28	+ 2	SE	6	bc	*	28	21	-	
Bodö ...	29.50	16	E	6	O	29.62	- .14	25	23	+ 7	E	2	b	1	27	9	-	
Christiansund...	29.31	34	zo	O	O	29.43	- .03	36	34	+ 1	E	2	C	1	36	32	-	
Skudesnaes ...	29.39	37	SSE	4	r	† 29.23	- .05	40	37	+ 7	SSW	4	O	+	37	?	0.39	
Christiania Fjord (Farder)	29.54	31	SSE	4	S	† 29.56	- .12	31	31	+ 3	SE	3	S	+	32	28	-	
Skagen (The Scaw)																		
Fanö ...	29.48	36	SSE	5	O	† 29.34	- .19	35	34	+ 1	SSE	5	O	*	37	34	0.12	
BRITISH ISLANDS.																		
Sumburgh Head	29.28	38	zo	O	bc	29.31	+ .06	39	35	+ 2	NNE	2	O	4	43	35	-	
Stornoway ..	29.29	41	NW	2	bc	29.36	+ .10	36	35	+ 1	NW	3	bc	3	45	32	0.02	
Wick ...	29.29	40	NW	1	b	29.30	+ .04	32	30	+ 3	NW	2	C	1	45	28	-	
Nairn ...	29.30	40	zo	O	b	29.30	+ .02	35	34	+ 1	W	2	C	1	46	34	-	
Aberdeen...	29.33	37	SE	1	cm	29.27	- .04	36	35	+ 4	WNW	4	C	3	44	32	-	
Leith ...	29.31	41	E	1	m	29.32	- .00	38	35	+ 3	WNW	1	C	*	44	33	-	
Shields ...	29.29	36	NE	2	r	29.22	- .10	37	36	+ 1	NW	3	O	3	41	33	0.69	
Spurn Head ...	29.14	40	NNE	3	r	29.20	- .09	36	35	0	W	9	sq	6	44	33	0.80	
York ...	29.21	33	N	1	S	29.27	- .03	37	35	+ 2	WNW	2	O	*	38	32	1.10	
Loughborough	29.13	36	N	3	r	29.40	+ .08	36	34	+ 2	W	4	b	*	38	33	2.06	
Ardrossan ...	29.30	43	WNW	1	b	29.38	+ .05	40	38	+ 4	NW	3	bc	2	46	35	-	
Malin Head ...	29.34	41	N	4	b	29.45	+ .11	41	37	+ 2	WNW	4	C	3	47	39	-	
Mullaghmore ...	29.38	43	WNW	4	bv	29.52	+ .15	38	37	- 2	NW	2	bc	2	48	34	0.01	
Belmullet ...	29.41	45	N	3	C	29.56	+ .16	40	39	+ 2	NE	1	C	*	48	36	0.03	
Donaghadee ...	29.32	43	N	3	bc	29.44	+ .08	38	37	+ 3	SW	4	b	2	44	35	-	
Barrow-in-Furness	29.27	37	NE	2	O	29.37	+ .06	38	36	+ 3	WNW	3	bc	*	40	34	0.02	
Liverpool (Bidston)	29.25	33	NNE	2	S	29.41	+ .08	39	38	+ 3	WNW	5	b	3	40	33	0.62	
Holyhead ...	29.28	41	NNE	4	ogm	29.46	+ .13	43	41	+ 2	NW	4	b	4	43	39	0.02	
Parsonstown ...	29.37	44	NW	2	C	29.57	+ .16	29	28	- 1	zo	O	b	*	48	28	-	
Valencia ...	29.54	45	N	2	b	29.59	+ .15	35	34	- 7	zo	O	b	1	50	33	-	
Roche's Point...	29.38	45	WNW	3	b	29.57	+ .19	38	36	- 2	WNW	3	b	3	47	35	-	
Pembroke ...	29.27	38	NNE	3	C	29.55	+ .26	41	39	+ 2	NW	3	b	2	42	37	0.20	
Scilly ...	29.35	45	WNW	6	C	29.54	+ .36	46	43	+ 6	zo	O	C	5	46	40	0.32	
Prawle Point ...	29.14	37	WNW	6	O	29.58	+ .39	44	42	- 4	WNW	3	bc	2	48	35	0.10	
Jersey ...	29.16	45	WSW	6	cqrgu	29.63	+ .30	44	41	- 5	SW	4	ogm	4	52	42	0.02	
Hurst Castle ...	29.04	47	SSW	7	cpgg	29.57	+ .28	41	40	- 7	W	6	bc	5	50	38	0.11	
Dungeness ...	29.20	48	SSW	5	r	29.54	+ .15	42	40	- 2	W	5	b	4	49	39	0.04	
London ...	29.13	52	S	5	or	29.52	+ .25	41	39	- 8	WNW	4	b	*	54	35	0.19	
Oxford ...	28.99	49	SW	4	O	29.50	+ .23	38	36	- 1	SW	3	b	*	50	34	0.46	
Cambridge ...	29.12	51	S	2	r	29.44	+ .14	38	36	- 11	SW	2	b	*	53	33	0.22	
Yarmouth ...	29.26	43	S	4	cf	29.32	- .02	38	36	- 5	WNW	7	cqrg	4	46	33	0.15	
Cuxhaven ...	29.57	40	SSE	4	O	29.43	- .22	40	39	+ 4	S	4	bc	*	43	?	0.05	
Berlin ...	29.80	37	SSE	3	O	29.70	- .25	33	30	+ 11	SSE	3	C	*	41	?	-	
Wiesbaden ...	*	*	*	*	*	29.71	- .09	37	36	0	SE	1	O	*	41	36	0.20	
Munich ...	29.77	28	SE	1	b	29.81	- .10	35	33	+ 18	SW	2	O	*	39	17	-	
FRANCE & NETHERLANDS.																		
The Helder ...	29.37	43	SSE	2	bc	29.19	- .29	39	37	- 1	SW	8	O	4	46	39	-	
Brussels ...	*	*	*	*	*	29.59	+ .02	40	38	- 4	SSW	6	b	*	53	40	-	
Cape Gris Nez...	?	54	SSW	5	O	?	?	41	37	- 5	WSW	7	C	7	57	37	0.08	
Paris ...	29.41	55	S	5	O	29.73	+ .13	37	36	- 9	SW	3	b	*	61	37	0.20	
Brest ...	29.47	43	NW	6	O	29.63	+ .35	42	39	- 9	SSE	1	r	6	52	36	0.67	
Lorient ...	29.39	46	WNW	6	C	29.58	+ .24	44	43	- 7	S	2	r	5	52	43	0.32	
Rocheport ...	29.57	50	W	6	O	29.81	+ .20	45	44	- 2	S	4	bc	2	57	37	-	
Belfort ...	29.83	38	W	1	O	29.86	+ .03	42	41	+ 4	W	1	O	*	46	35	0.08	
Lyons ...	29.68	48	SSE	5	r	29.86	- .18	45	43	- 4	N	1	r	*	52	45	0.04	
Nice ...	29.95	45	NE	4	O	29.84	- .18	45	44	+ 5	SW	3	O	4	45	?	0.43	
Perpignan ...	29.65	52	ENE	1	O	29.87	+ .12	50	45	+ 4	NW	2	O	*	59	47	-	
Biarritz ...	29.65	51	WNW	6	r	29.83	+ .26	48	42	- 10	S	3	C	?	?	?	0.32	
SPAIN & PORTUGAL.																		
Corunna ...	*	*	*	*	*													
Lisbon ...	29.94	52	NW	4	b	29.93	+ .25	51	48	- 6	zo	O	O	2	59	48	0.04	

WEATHER CHARTS

for 8 a.m. on *Saturday, 9th March* 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 11 to 12,
 — force 5 to 7, — force 1 to 4,
 — dead calm.

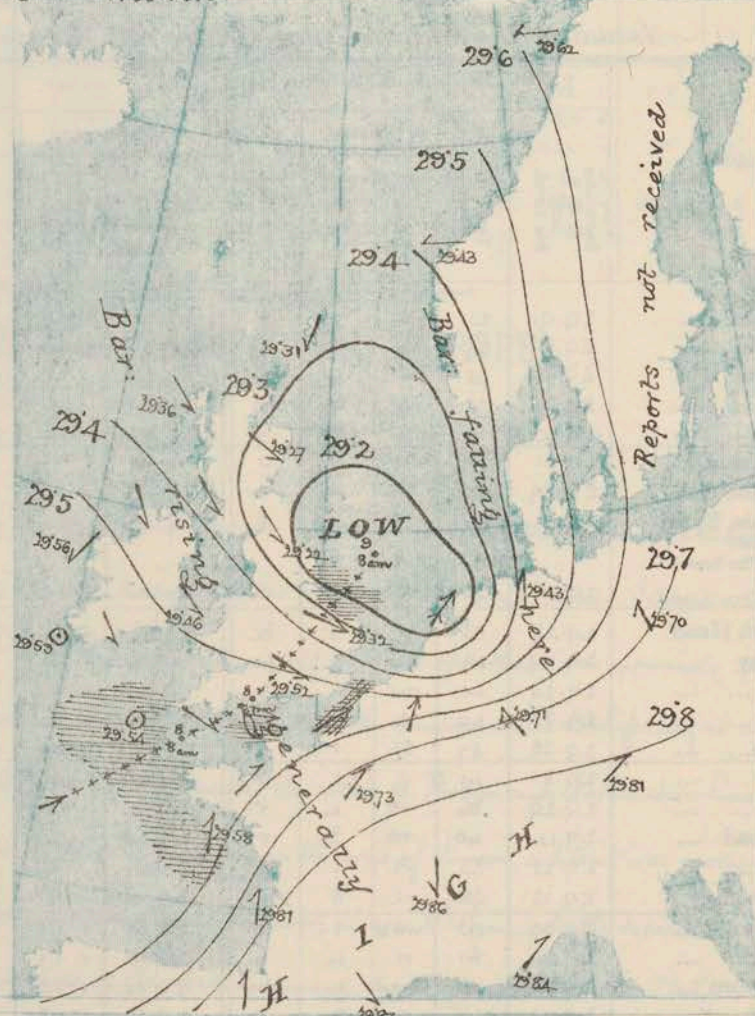
Sea Disturbance — where considerable is shown thus.

— Rough — High

MEAN HEIGHT of the BAROMETER

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

STATIONS.	MEAN READINGS
Sumburgh Head	29.751
Stornoway	29.779
Wick	29.797
Nairn	29.815
Aberdeen	29.830
Leith	29.882
Shields	29.898
York	29.925
Loughborough	29.948
Ardrossan	29.876
Dunghadue	29.802
Holyhead	29.819
Liverpool	29.925
Parsonstown	29.940
Valencia	29.938
Roches Point	29.941
Pembroke	29.944
Silly	29.960
Jersey	29.971
Hurst Castle	29.988
Dover	29.955
LONDON	29.987
Oxford	29.966
Cambridge	29.957
Yarmouth	29.938



TEMPERATURE & WEATHER at 8 a.m. with RAINFALL in PAST 24 HOURS.

Temperature — Isotherms are drawn for each 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 1/16 in. or more, are quoted in figures.

MEANS OF TEMPERATURE IN SHADE.

AND RAINFALL

for the month of March.

STATIONS	TEMPERATURE				RAINFALL (Inches)
	Daily Max	Daily Min	at 8 a.m.	Wet	
Sumburgh Head	42.6	34.0	38.5	37.1	2.92
Stornoway	44.9	34.4	39.2	38.0	3.87
Wick	44.7	38.9	39.1	37.2	1.97
Nairn	45.0	34.2	38.2	36.3	1.72
Aberdeen	45.4	34.7	38.9	36.8	2.24
Leith	48.2	34.6	39.7	37.9	1.35
Shields	45.9	35.4	39.6	38.0	1.60
York	48.9	33.7	38.6	37.1	1.83
Loughborough	49.8	34.3	39.5	37.7	1.47
Ardrossan	45.8	33.6	40.5	38.7	2.59
Dunghadue	47.3	37.1	41.0	39.7	1.99
Holyhead	47.6	39.2	42.5	41.0	2.21
Liverpool	47.3	37.1	40.8	38.7	1.69
Parsonstown	40.1	35.5	41.2	39.8	2.35
Valencia	51.6	40.6	45.4	43.4	4.24
Roches Point	50.2	40.0	43.8	42.1	3.71
Pembroke	47.1	39.5	42.6	40.8	2.45
Silly	49.9	43.0	46.5	44.7	2.38
Jersey	49.9	40.5	44.7	42.7	2.32
Hurst Castle	48.3	37.7	41.6	40.7	1.80
Dover	46.9	37.8	41.6	39.9	1.86
LONDON	50.6	35.8	40.6	38.7	1.43
Oxford	49.5	35.2	39.4	37.9	1.52
Cambridge	50.6	33.3	39.2	37.7	1.33
Yarmouth	45.7	35.8	40.8	39.1	1.77

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



GENERAL SITUATION AT 8 A.M.

PRESSURE

Highest, 29.9 inches and upwards over the S. of Portugal, 29.8 inches and upwards over the greater part of France and S. Germany.
Lowest, 29.2 inches and less in a depression lying over the Southern part of the North Sea.
Gradients rather steep over the Netherlands & East of England, and increasing over the Bay of Biscay, but slight elsewhere.
Barometer rising in most places. The Swedish and Danish reports have, however, not yet arrived.

TEMPERATURE

Highest 51° at Lisbon, 50° at Pauignon, 48° at Biarritz, 46° at Tilly, and 45° at Rochefort, Lyons and Nice.
Lowest 25° at Bodo, 29° at Bournemouth, 32° at Wick, 33° at Berlin and 35° at Vain and Allenich.
Frost occurred last night in many parts of our Islands; in London the thermometer on the grass fell to 27°.

WIND

Moderate from the NW over the greater part of the United Kingdom, but strong to a gale from W. in the east of England.
A fresh SW. gale is reported at the Helles, but light E. breezes in the west of Norway.
In the west of France the wind after veering to West has again backed to the Southward.

WEATHER

Fine over the greater part of Western Europe, but squally, with sleet in the east of England and rain in the NW of France.
Heavy rain fell yesterday at many of the English stations, the largest amounts at present reported being 2.1 inches at Loughborough, 1.1 inches at York, 0.8 inch at Spurn Head and 0.7 inch at Shields.

SEA

High at Cape Breton, rough at Spurn Head, and rather rough in the Channel as well as off the NW of France.

PROBABLE CHANGES IN SYSTEM NOW PREVALENT

Although the barometer is apparently rising in the west of France and also in the SW of our Islands, the wind in the former locality has backed to S. or S.E., while in the latter it has fallen to a calm. A new depression is evidently approaching from the SW, and an early renewal of unsettled, rainy weather is probable over our southern districts.

FORECASTS

For the 24 hours ending at NOON on 10th March 1889.

DISTRICTS.

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

FORECASTS.

0 & 1 NW and N winds, light or moderate, fair generally, but some cold showers.
2 W winds strong, to SW or S light; fair to unsettled and some rain.
3 Wind falling light and backing to the S or SE, fair to dull and rainy.

DISTRICTS.

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

FORECASTS.

6 Same as N^o 0 and 1.
7 NW winds, shifting to the E, fine to unsettled and some rain.
8 E and SE winds, freshening, unsettled, some rain.
9 Same as N^o 0 and 1.
10 N to NE winds, light or moderate, fine to cloudy and some rain.

WARNINGS

NONE ISSUED.

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

YESTERDAY'S 2 P.M. REPORTS.

	Bar.	Dry.	Wet.	Wind.	Wes.	Sea.		Bar.	Dry.	Wet.	Wind.	Wes.	Sea.
Skudesnaes ...	29.30	37	36	SSE 6	r	6	Holyhead ...	29.29	41	39	NNE 4	omg	3
Sumburgh Head ...	29.29	40	38	LS 0	c	5	Valencia ...	29.42	50	44	NW 4	bc	3
Stornoway ...	29.29	44	42	NW 3	bc	3	Scilly ...	29.21	43	42	NW 6	og	5
Aberdeen ...	29.32	43	38	WSW 1	c	3	Jersey ...	29.21	51	49	SSE 5	o	5
Shields ...	29.30	40	38	NE 1	om	2	Dungeness ...	29.32	48	46	SSW 5	c	4
Arrossau ...	29.31	44	42	W 1	c	1	London ...	29.23	54	50	SSE 4	o	4
Main Head ...	29.34	45	42	WNW 3	b	2	Yarmouth ...	29.31	46	45	S 4	omg	4
Malinbeg ...	29.36	47	44	NW 5	bcv	3	Rochefort ...	29.50	57	51	SSE 6	o	3
Belmullet ...	29.41	47	45	NW 2	c	*							

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

Yesterday morning's reports showed that pressure continued highest (30.3 ins. to nearly 30.9 ins) over Russia, whence a "col" spread south-southwestward across Hungary, the Adriatic and Italy, to another ill defined high pressure system lying over the southeastern parts of the Mediterranean. A well formed depression lay over the northern parts of the Black Sea, while over the whole of western Europe an irregular system of low-pressure prevailed, having only one well marked minimum, which lay at the mouth of the English Channel, and was advancing northeastwards. The wind, except over southern and southeastern Europe, was mainly S.W., and was strong to a gale in force in the English Channel and on the eastern shores of the North Sea. In Norway it was more E., and on the western coasts of the British Islands, it was N.W. The weather ^{was} fair to dull over Russia and Central Europe, with fog in several places, and was very cold; over western Europe it was unsettled, rain was falling at several stations (especially over England). Snow in several parts of Scandinavia. Temperature was still below zero F. in central Russia, but was less low than of late over France, north Germany and the Gulf of Bothnia. Hard frost prevailed over Austria-Hungary, but none in France or England. The lowest individual values were -4° F. at Moscow, +7° at Warsaw and Cracow, 8° at Kharkov and Kiev, 10° at Merid and Neu-Tschwassan, 12° at Prague, 17° at Munich, 18° at Vienna, Breslau and Bodo, 19° at Odessa, 22° at Berlin, 27° at Stockholm, and 28° at the Scaw, and 32° at Aberdeen. The highest were 60° to 66° along the Algerian coast, 59° at Bilbao, 58° at Biarritz, 57° at San Fernando and Lisbon, 56° at Barcelona, 52° at Brindisi and Malta, 51° at Brest, 49° in London, and 48° at Paris.

Later in the day, as the depression off our southwest coast moved northeastwards, large quantities of cold rain and wet snow fell over the midland counties of England, and smaller quantities in many other parts of our Islands and France.

[The newspapers report heavy floods to have occurred in several of the river valleys ^{and the west of England.} in consequence of the snow and 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 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 Sunday 10th March. 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 ..	29.89	23	E	2	S	29.94	+ .24	29	22	+ 1	S	2	o	*		30	16	0.28
Hernösand ...	29.76	30	S	8	o	29.78	+ .04	31	31	+ 1	S	4	o	*		32	27	—
Stockholm ...	29.87	30	S	4	r	29.86	+ .02	32	31	+ 2	SSE	2	f	*		36	24	—
Wisby ...	29.88	30	SE	6	o	29.91	.00	32	32	+ 4	S	4	o	*		34	24	—
Bodö ...	29.75	24	E	2	bc	29.59	— .09	25	23	0	E	6	s	3		27	21	—
Christiansund...	29.24	37	NE	6	o	29.11	— .32	39	36	+ 3	ESE	1	c	3		39	36	—
Skudesnaes ...	29.04	39	ESE	5	o	29.36	+ .13	38	37	— 2	SSE	6	o	5		?	36	—
Christiania Fjord (Færder)	29.39	32	SE	5	o	29.56	.00	35	34	+ 4	SSE	5	m	5		?	30	—
Skagen (The Scaw)																		
Fanö ...	29.58	36	SW	5	b	29.73	+ .39	33	33	— 2	SSW	4	b	*		29	32	0.04
BRITISH ISLANDS.																		
Sumburgh Head	29.17	36	NNE	2	o	29.21	— .10	37	36	— 2	N	4	o	4		40	35	0.16
Stornoway ...	29.24	39	NN	2	c	29.56	+ .20	36	35	0	N	2	o	3		45	39	0.08
Wick ...	29.25	37	NN	2	bc	29.46	+ .16	34	38	+ 2	N	4	esp	2		43	30	0.13
Nairn ...	29.32	36	WNW	2	bc	29.47	+ .17	37	36	+ 2	SW	2	ow	2		45	32	0.01
Aberdeen...	29.31	37	W	4	bc	29.48	+ .21	38	35	+ 2	W	3	bc	2		40	32	0.10
Leith ...	29.38	36	W	2	b	29.56	+ .24	39	35	+ 1	W	1	b	*		47	34	—
Shields ...	29.42	42	WSW	3	b	29.61	+ .39	38	35	+ 1	WSW	2	b	2		45	34	—
Spurn Head ...	29.55	39	WSW	3	b	29.70	+ .50	36	34	0	SW	3	c	3		43	33	0.04
York ...	29.52	41	W	1	b	29.67	+ .40	37	35	0	S	1	c	*		48	32	—
Loughborough	29.62	41	WSW	2	b	29.74	+ .34	32	31	— 4	E	1	om	*		48	30	—
Ardrossan ...	29.45	41	W	4	b	29.63	+ .25	43	41	+ 3	WNW	2	b	1		47	36	0.06
Malin Head ...	29.47	42	NN	5	bpg	29.65	+ .20	41	39	0	NNW	2	b	2		45	37	0.14
Mullaghmore ...	29.59	41	WSW	5	bc	29.70	+ .18	43	40	+ 5	NNW	5	c	3		48	37	0.07
Belmullet ...	29.61	43	N	2	b	29.74	+ .18	42	41	+ 2	NN	3	c	*		47	36	0.08
Donaghadee ...	29.54	40	WNW	2	bc	29.68	+ .24	37	36	— 1	W	3	b	1		47	36	—
Barrow-in-Furness	29.54	42	SW	3	b	29.68	+ .31	42	40	+ 4	SW	2	bc	*		46	37	—
Liverpool (Bidston)	29.60	40	W	3	b	29.72	+ .31	39	36	0	SW	2	bc	3		44	36	—
Holyhead ...	29.60	42	SW	3	bc	29.72	+ .26	39	37	— 4	SW	1	b	2		47	37	—
Parsonstown ...	29.62	43	Z	0	c	29.77	+ .20	30	29	+ 1	Z	0	b	*		49	28	—
Valencia ...	29.65	46	NN	1	b	29.78	+ .19	38	37	+ 3	NNE	1	b	1		53	39	—
Roches Point...	29.64	45	WSW	2	b	29.77	+ .20	37	35	— 1	N	2	b	3		49	33	—
Pembroke ...	29.65	42	NN	2	b	29.73	+ .18	37	36	— 4	ENE	2	c	1		46	35	—
Scilly ...	29.60	46	ESE	2	c	29.64	+ .10	41	40	— 5	ENE	6	r	4		54	39	0.18
Prawle Point ...	29.67	44	SSW	2	bc	29.68	+ .10	40	39	— 4	ENE	6	ru	4		51	38	0.09
Jersey ...	29.68	44	ESE	3	bc	29.63	.00	45	44	+ 1	E	3	ogm	3		47	38	0.21
Hurst Castle ...	29.67	43	WSW	4	b	29.71	+ .14	40	40	— 1	ENE	3	o	4		48	36	—
Dungeness ...	29.67	41	W	4	b	29.71	+ .17	39	39	— 3	ESE	2	c	1		45	35	—
London ...	29.65	45	W	2	b	29.74	+ .22	35	34	— 6	ESE	1	ofw	*		51	32	—
Oxford ...	29.70	39	WSW	2	b	29.76	+ .26	32	31	— 6	Z	0	om	*		49	31	—
Cambridge ...	29.67	39	W	1	bc	29.77	+ .23	33	32	— 5	Z	0	o	*		50	28	—
Yarmouth ...	29.57	43	W	4	bc	29.75	+ .43	36	35	— 2	WSW	1	cf	3		46	38	—
Cuxhaven ...	29.62	39	SW	4	b	29.77	+ .34	36	36	— 4	SSW	2	c	*		43	36	—
Berlin ...	29.88	36	Z	0	b	29.93	+ .23	31	31	— 2	SSE	1	c	*		43	28	—
Wiesbaden ...	*	*	*	*	*	29.88	+ .17	39	37	+ 2	Z	0	o	*		50	36	—
Munich ...	29.92	33	SW	1	b	29.93	+ .12	28	23	— 12	SE	3	b	*		45	23	0.04
FRANCE & NETHERLANDS.																		
The Helder ...	29.67	39	SW	3	b	29.78	+ .59	38	33	— 6	S	1	b	1		43	33	—
Brussels ...	*	*	*	*	*	?	?	42	41	+ 2	?	1	o	*		49	40	0.08
Cape Gris Nez...	?	40	SSW	5	b	?	?	38	36	— 3	SE	3	c	2		45	36	0.12
Paris ...	29.75	46	S	3	o	29.75	+ .02	41	40	+ 4	SE	2	c	*		49	37	0.16
Brest ...	29.66	48	Z	0	o	29.58	— .05	48	47	+ 6	SE	3	o	5		52	42	0.51
Lorient ...	29.64	48	S	1	o	29.53	— .05	46	43	+ 2	ESE	3	c	5		50	43	0.43
Rochefort ...	29.80	50	SSE	5	o	29.61	— .20	46	45	+ 1	SE	4	o	2		54	39	—
Belfort ...	29.85	42	W	1	o	29.86	.00	42	41	0	W	1	o	*		50	35	—
Lyons ...	29.76	48	ESE	1	bc	29.80	— .06	46	43	+ 1	SSE	3	o	*		55	45	—
Nice ...	29.92	48	Z	0	m	29.97	+ .13	45	45	0	Z	0	c	4		55	45	—
Perpignan ...	29.80	57	E	3	c	29.74	— .13	57	48	+ 1	SE	3	o	*		61	44	—
Biarritz ...	29.72	54	E	2	o	29.57	— .21	56	48	+ 8	S	4	c	2		63	46	—
PENIN- SULA.																		
Corunna ...	*	*	*	*	*													
Lisbon ...	29.64	53	SSE	5	r	29.53	— .40	49	47	— 2	WNW	5	bc	?		53	48	0.75

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, 10th March

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 6 to 10;
 — force 5 to 7; — force 1 to 4;
 ☉ — dead calm.

Sea Disturbance — where considerable is shown thus.

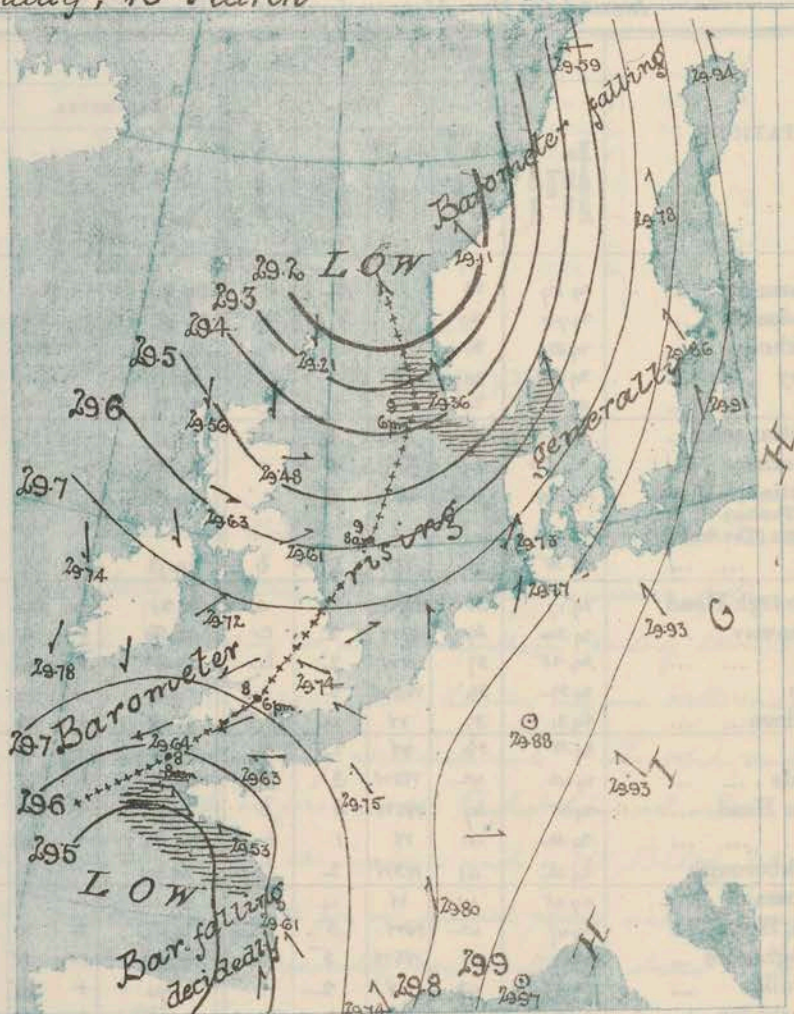
— Rough — High.

MEAN HEIGHT of the BAROMETER

at 6 a.m. for the month of March.

During the 15 Years 1871-1885.

STATIONS.	MEAN READINGS.
Sumburgh Head	29.751
Stornoway	29.779
Wick	29.797
Nairn	29.815
Aberdeen	29.830
Leith	29.852
Shields	29.896
York	29.925
Loughborough	29.948
Ardrossan	29.876
Donaghadee	29.892
Holyhead	29.919
Liverpool	29.925
Parsonstown	29.940
Valencia	29.938
Roches Point	29.941
Pembroke	29.944
Scilly	29.986
Jersey	29.971
Hurst Castle	29.966
Dover	29.955
LONDON	29.967
Oxford	29.966
Cambridge	29.957
Yarmouth	29.938



TEMPERATURE & WEATHER at 8 A.M., with RAINFALL in PAST 24 HOURS.

Temperature — Isotherms are drawn for each 10° changes since previous morning are stated in words.

Weather — is shown by Letters of the Beaufort Scale.

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

MEANS OF TEMPERATURE IN SHADE.

AND RAINFALL.

for the month of March.

STATIONS.	TEMPERATURE.				RAINFALL. (Inches)
	Daily Max.	Daily Min.	at 8 a.m.		
			Dry	Wet	
Sumburgh Head	42.6	34.0	38.5	37.1	2.92
Stornoway	44.9	34.4	39.2	38.0	3.87
Wick	44.7	33.9	39.1	37.2	1.97
Nairn	45.6	34.2	38.2	36.3	1.72
Aberdeen	45.4	34.7	38.9	36.8	2.24
Leith	48.2	34.6	39.7	37.9	1.36
Shields	45.9	35.4	39.6	38.0	1.60
York	48.9	33.7	38.6	37.1	1.03
Loughborough	49.8	34.3	39.5	37.7	1.47
Ardrossan	46.8	36.6	40.5	38.7	2.59
Donaghadee	47.3	37.1	41.0	39.7	1.29
Holyhead	47.6	39.2	42.5	41.0	2.21
Liverpool	47.3	37.1	40.8	38.7	1.09
Parsonstown	50.1	35.5	41.2	39.6	2.35
Valencia	51.6	40.6	45.4	43.4	4.24
Roches's Point	50.2	40.0	43.8	42.1	3.71
Pembroke	47.1	39.5	42.6	40.8	2.45
Scilly	49.9	43.0	46.6	44.7	2.38
Jersey	49.9	40.5	44.7	42.7	2.32
Hurst Castle	48.8	37.7	41.6	40.7	1.80
Dover	46.9	37.8	41.6	39.9	1.86
LONDON	50.6	35.8	40.6	38.7	1.43
Oxford	49.5	35.2	39.4	37.9	1.52
Cambridge	50.6	33.8	39.2	37.7	1.33
Yarmouth	45.7	35.8	40.8	39.1	1.77

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



GENERAL SITUATION AT 8 A.M.

PRESSURE

Highest, 29.2 in. and upwards, over Finland, the Baltic, Germany, and the southeast of France.
Lowest, 28.2 in. and less, in a depression, lying to the W. of Norway, 28.4 in. and less, in another disturbance lying over the Bay of Biscay and northwest of Spain.
Gradients rather steep over Scandinavia, but slight elsewhere.
Barometer falling in the west of Norway and also in Spain and the west of France, but rising in most other localities.

TEMPERATURE

Highest, 56° at Biarritz, 51° at Perpignan, 49° at Lisbon, 48° at Brest and 46° at Lorient, Rochefort and Lyons.
Lowest, 23° at Haparanda, and Munich, 25° at Bodo, 30° at Parsonstown and 31° at Helsingfors and Berlin.
Frost occurred last night over the inland parts of the United Kingdom.

WIND

Moderate from N. in the north of Scotland, light from SW over the north of England; moderate to strong from SE. in the W. of Norway.
Fresh from the W. at Lisbon, light or moderate from SE. in France, strong from ENE. in the western parts of the Channel.

WEATHER

Fine in Ireland and the central parts of Great Britain.
Cloudy or overcast, with rain in the southeast of England, and snow at Wick and Bodo.
Since yesterday morning 0.4 in. of rain has fallen at Lorient, 0.5 in. at Brest, and 0.6 in. at Lisbon.

SEA

Rather rough off the northwest of France and also off the coast of Norway, but moderate to smooth elsewhere.

PROBABLE CHANGES IN SYSTEM NOW PREVALENT

The depression of the past two days is now travelling northwards outside the west of Norway, but a new disturbance is advancing over the Bay of Biscay. Unsettled weather is therefore likely to continue in our southern districts.

FORECASTS

For the 24 hours ending at NOON on 11th March 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

FORECASTS.

NONE ISSUED

WARNINGS

The NORTH CONE has been hoisted this morning in district 5 and part of 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.	Wea.	Sea.		Bar.	Dry.	Wet.	Wind.	Wea.	Sea.
Skudesnaes ...	29.17	40	36	SE 6	o	4	Holyhead ...	29.57	45	43	W 3	b	3
Sumburgh Head ...	29.24	38	37	NNE 3	op	4	Valencia ...	29.63	51	43	NNW 1	bm	2
Stornoway ...	29.33	44	41	NW 2	bc	2	Scilly ...	29.59	50	45	SE 1	bc	3
Aberdeen ...	29.27	29	27	ESE 5	cgrshp	3	Jersey ...	29.64	46	43	ESE 3	b	3
Shields ...	29.36	45	40	NW 3	c	3	Dungeness ...	29.62	41	40	W 4	c	3
Ardrossan ...	29.42	47	43	W 5	b	3	London ...	29.60	51	43	SW 3	bc	*
Malin Head ...	29.48	44	40	NW 4	bc	3	Yarmouth ...	29.57	46	42	W 5	bcg	4
Mullaghmore ...	29.58	43	40	W 4	chrp	2	Rocheport ...	29.80	51	49	SSW 5	o	3
Belmullet ...	29.59	46	43	W 3	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. to 30.8 ins.) over Russia and that it exceeded 30.0 ins. over the whole of the Balkan Peninsula, Greece and Southern Italy, as well as over the western and central parts of Algeria. From these regions it decreased to 29.2 ins. (and apparently much less) in a depression lying over the North Sea, and to 29.6 ins. and less over the Bay of Biscay and Ireland. Anticyclonic breezes prevailed in Russia, strong S winds (and gales locally) over the Baltic and Denmark, and light SW breezes over the greater part of France; over the east and south-east of England, ^{a gale} which had been general over the country during the night) still blew with considerable force from the Wnd, and in Holland it was SW². In Ireland the wind was moderate from the NWnd and Nnd, and over the Bay of Biscay it was S². The weather was extremely variable — clear in some localities especially in Ireland, Wales, and the northwestern parts of Great Britain, cloudy in others, with rain in Brittany, snow and rain on our northeastern coasts. [The rainfall over England during the previous twenty-four hours had been very heavy.] Temperature ranged from somewhat below zero F. over Central Russia and from many degrees below the freezing point over Iceland and some German stations to several degrees above the freezing point over Western Europe and Great Britain. The lowest individual values were -6° F. at Moscow, +9° at Odesa, 11° at Kiev and Riga, 13° at New-Takowarsan and Lemberg, 15° at Minsk and St. Petersburg, 17° at Athens and Helmsford, 18° at Archangel, Warsaw, and Breslau, 22° at Haparanda, 23° at Prague and 25° at Baronatow; at Berlin the temperature was 33°, at Paris 37°, at Brussels 40°, and in London 41°. The highest were 63° at Algiers, 59° at Malta, 56° at Barcelona, 55° at Palermo and Sanguinaria, 54° at Cagliari, 53° at Helao, 52° at Sindri and Corunna, 51° at Lisbon and Senous, 48° at Biarritz, and 46° at Lillo.

Later in the day the depression over the North Sea moved northwards, fine weather prevailed over the United Kingdom generally, but towards night the appearance on our southwest coasts again became unsettled.

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, 11th March, 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 8 a.m. and Sea Level.	Difference from 8 a.m. yesterday.	SHADE TEMP.			WIND.		Weather.	Bar. at 9 a.m.	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 ...	29.94	20	SSE	4	S	29.78	-16	22	21	-1	SSW	2	S	*	28	19	0.12		
Hernösand ...	29.76	29	SEW	4	O	29.67	-11	32	32	+1	S	4	O	*	34	27			
Stockholm ...	29.83	33	Z	O	O	29.78	-08	32	32	O	SSE	2	f	*	36	28			
Wisby ...	29.93	32	SSE	4	O	29.84	-07	33	32	+1	S	4	O	*	36	28			
Bodö ...	29.48	30	E	7	O	29.42	-17	34	31	+3	E	2	O	1					
Christiansund...	29.26	39	ENE	1	C	29.42	+31	38	36	-2	WSW	1	b	3	41	36			
Skudesnaes ...	29.52	37	WSW	6	O	29.57	+21	38	37	O	WSW	5	r	5		34	20		
Christiania Fjord (Farder)	29.60	35	SSE	4	m	29.62	+06	33	32	-1	SSW	3	b	4		30			
Skagen (The Seaw)	29.68	32	SW	2	b	29.68		32	32		WSW	2	f	1	34	30			
Fanö ...	29.78	32	SW	3	bc	29.76	+03	33	33	O	SW	1	f	*	37	30			
BRITISH ISLANDS.																			
Sumburgh Head	29.49	33	NNW	5	O	29.82	+61	37	33	O	N	4	C	4	40	33	0.03		
Stornoway ...	29.77	39	N	3	O	30.02	+46	35	34	-1	N	2	C	3	42	32	0.15		
Wick ...	29.76	34	N	3	O	29.99	+53	37	34	+3	N	4	C	2	40	33	0.10		
Nairn ...	29.74	37	W	1	O	30.01	+54	35	33	-2	SW	1	C	1	42	38	0.01		
Aberdeen...	29.74	37	WNW	3	bc	30.00	+52	36	33	-3	WNW	3	C	3	42	34			
Leith ...	29.76	37	W	1	b	30.03	+47	36	33	-3	W	1	C	*	52	30			
Shields ...	29.74	47	Z	O	bc	29.98	+37	34	32	-2	WNW	2	C	2	48	32			
Spurn Head ...	29.74	40	WNW	1	C	29.94	+24	36	35	O	WNW	3	b	3	43	31			
York ...	29.73	43	W	1	b	29.97	+30	33	32	-1	W	1	b	*	47	30			
Loughborough	29.78	42	WNW	1	O	30.00	+26	31	31	-1	W	1	m	*	47	29			
GERMANY.																			
Ardrossan ...	29.79	34	NW	2	b	30.06	+43	38	36	-2	N	2	b	1	48	32			
Malin Head ...	29.83	42	N	2	b	30.07	+42	38	37	-1	S	1	b	1	46	36			
Mullaghmore ...	29.87	44	WNW	2	b	30.09	+39	39	38	-1	SW	2	b	2	49	34	0.01		
Belmullet ...	29.89	43	N	2	b	30.12	+38	38	38	0	S	1	b	*	47	35	0.04		
Donaghadee ...	29.82	44	NNE	3	b	30.07	+39	36	35	-1	WNW	3	b	1	48	36			
FRANCE & NETHERLANDS.																			
Barrow-in-Furness	29.77	43	NW	3	b	30.01	+33	34	32	-2	EHE	1	b	*	47	32			
Liverpool (Biddon)	29.81	39	WNW	1	b	30.02	+30	36	35	-1	WNW	1	b	2	44	35			
Holyhead ...	29.79	43	NNE	1	b	30.05	+33	43	42	+1	N	2	bar	2	48	34			
Parsonstown ...	29.87	44	Z	O	b	30.12	+35	27	27	0	Z	O	b	*	50	25			
Valencia ...	29.92	46	N	2	b	30.16	+38	39	38	-1	Z	O	bcn	1	49	36			
ROEYAL NAVY.																			
Rocha's Point...	29.83	47	N	3	bc	30.11	+34	39	36	-3	N	2	b	3	50	36			
Pembroke ...	29.81	41	NE	2	bc	30.03	+30	39	38	-1	NE	2	b	1	46	36			
Scilly ...	29.71	45	NE	6	C	29.99	+28	45	42	+3	NNE	6	C	4	45	40	0.02		
Prawle Point ...	29.73	40	NE	5	O	29.95	+27	40	36	-4	NE	6	b	4	40	34	0.18		
Jersey ...	29.61	45	NE	4	r	29.85	+22	43	38	-5	NNE	4	bcn	3	50	40	0.11		
Hurst Castle ...	29.71	40	NE	5	r	29.92	+21	38	36	-2	NNE	4	m	4	43	35	0.14		
Dungeness ...	29.67	41	N	4	r	29.83	+12	39	38	-1	NE	5	bc	4	44	35			
London ...	29.74	43	NE	3	O	29.93	+19	38	36	-2	NNE	3	C	*	44	32			
Oxford ...	29.80	40	NE	1	C	29.97	+17	34	32	-2	NNE	2	b	*	46	31			
Cambridge ...	29.81	43	NW	1	O	29.96	+19	35	34	-1	N	1	b	*	47	31			
NETHERLANDS.																			
Yarmouth ...	29.74	39	Z	O	C	29.87	+12	39	37	-2	N	4	bc	4	41	35			
Cuxhaven ...	29.80	37	NE	1	C	29.71	-06	36	35	-1	NNE	4	O	*	38	34			
Berlin ...	29.86	40	SSE	3	O	29.71	-22	34	33	-1	SE	2	O	*	45	3			
Wiesbaden ...	*	*	*	*	*	29.65	-23	40	38	-2	Z	O	r	*	52	39	0.04		
Munich ...	29.78	32	NW	1	O	29.67	-26	29	29	0	NE	2	f	*	34	23			
FRANCE & NETHERLANDS.																			
The Helder ...	29.74	38	NNE	1	C	29.78	-00	38	37	-1	NNE	2	C	3	41	3			
Brussels ...	*	*	*	*	*	29.75	?	35	34	-1	NNE	3	r	*	54	35	0.21		
Cape Gris Nez...	?	41	E	4	O	?	?	40	38	-2	NE	5	O	5	43	37	0.08		
Paris ...	29.88	52	NE	2	O	29.64	-11	38	38	0	NNE	5	r	*	61	32	0.08		
Brest ...	29.61	48	EHE	5	O	29.86	+28	42	38	-4	NE	4	b	3	52	34	0.12		
Lorient ...	29.49	49	EHE	3	r	29.75	+22	42	38	-4	NE	6	C	4	48	39	0.16		
Rochefort ...	29.46	54	EHE	4	O	29.54	-07	49	49	0	NE	5	r	2	55	43	0.54		
Belfort ...	29.64	48	W	1	O	29.62	-24	42	42	0	W	1	r	*	54	37	0.12		
Lyons ...	29.60	54	SSE	5	O	29.51	-29	51	48	+3	SSE	3	O	*	56	3	0.61		
Nice ...	29.88	50	E	3	O	29.67	-30	50	49	-1	SSE	5	r	3	50	?	0.61		
PERIN. SULA.																			
Perpignan ...	29.62	56	S	3	O	29.48	-26	46	43	-3	SW	2	b	*	62	44	0.01		
Biarritz ...	29.36	63	S	5	O	29.48	-26	52	45	-7	WSW	4	O	2	64	48	0.01		
FRANCE & NETHERLANDS.																			
Corunna ...	*	*	*	*	*														
Lisbon ...	29.78	50	W	5	bc	29.93	+40	50	48	+2	NW	4	r	6	55	46	0.04		

WEATHER CHARTS

for 8 a.m. on

Monday, 11th March

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.

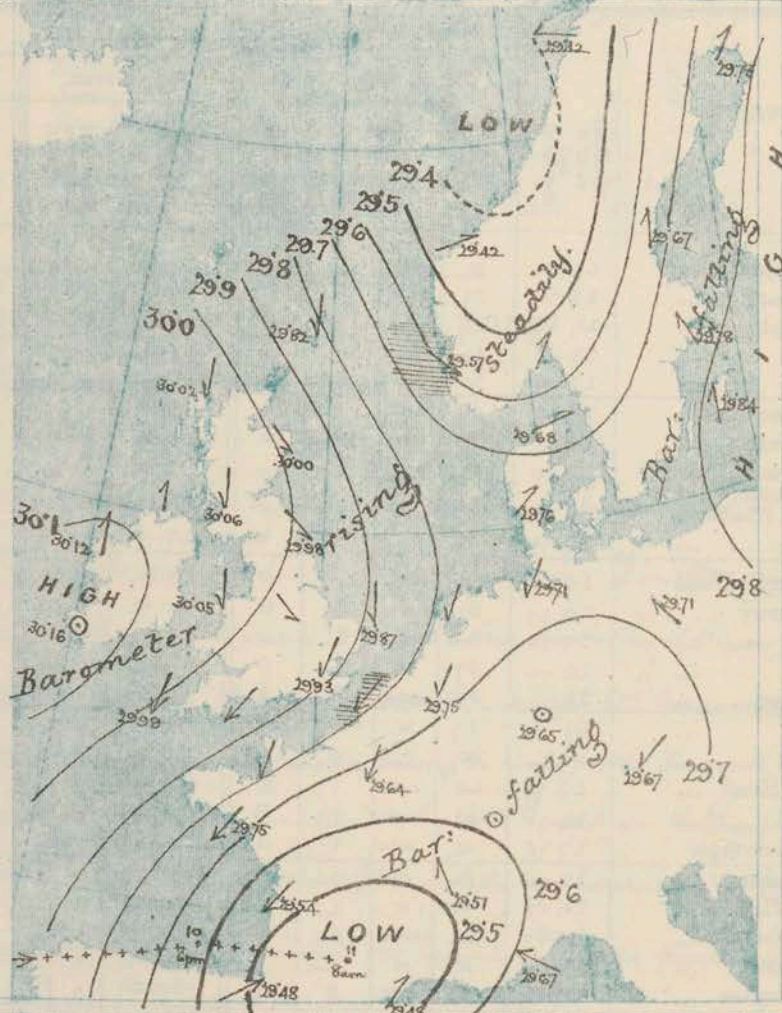
Sea Disturbance — where considerable is shown thus.

— Rough — High

MEAN HEIGHT of the BAROMETER

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

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



TEMPERATURE, & WEATHER at 8 A.M. with RAINFALL in PAST 24 HOURS

Temperature — Isotherms are drawn for each 10° changes since previous morning are stated in words.

Weather — is shown by Letters of the Beaufort Scale.

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

MEANS OF TEMPERATURE IN SHADE.

AND RAINFALL.

for the month of March.

STATIONS	TEMPERATURE				RAINFALL (Inches)
	Daily Max	Daily Min	at 5 a.m.		
			Dry	Wet	
Sumburgh Head	42.6	34.0	38.5	37.1	2.92
Stornoway	44.9	34.4	39.2	38.0	3.87
Wick	44.7	33.9	39.1	37.2	1.97
Nairn	45.6	34.2	38.2	36.3	1.72
Aberdeen	45.4	34.7	38.9	36.8	2.24
Leith	48.2	34.6	39.7	37.9	1.36
Shields	45.2	35.4	39.6	38.0	1.60
York	48.9	38.7	38.6	37.1	1.83
Loughborough	40.8	34.3	39.5	37.7	1.47
Ardrossan	46.8	36.6	40.6	38.7	2.59
Donaghadee	47.3	37.1	41.0	39.7	1.99
Holyhead	47.6	39.2	42.5	41.0	2.21
Liverpool	47.3	37.1	40.8	38.7	1.69
Parsonstown	50.1	35.5	41.2	39.6	2.35
Valencia	51.0	40.6	45.4	43.4	4.24
Roche's Point	50.2	40.0	43.8	42.1	3.71
Pembroke	47.1	39.5	42.6	40.8	2.45
Scilly	49.9	43.0	46.5	44.7	2.38
Jersey	49.9	40.5	44.7	42.7	2.32
Hurst Castle	48.3	37.7	41.8	40.7	1.80
Dover	46.9	37.8	41.6	39.9	1.86
LONDON	50.6	35.8	40.6	38.7	1.43
Oxford	49.5	35.2	39.4	37.9	1.52
Cambridge	50.6	33.3	39.2	37.7	1.33
Yarmouth	45.7	35.8	40.8	39.1	1.77

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



GENERAL SITUATION AT 8 A.M.

PRESSURE

Highest, 30.1 in: and upwards, over the coast and south of Ireland; 29.9 in: and upwards, in the south of Portugal; 29.8 in: and upwards, over Ireland and the northern part of the Baltic.
Lowest, 29.4 in: and less, in a depression lying off the northwest of Norway; 29.5 in: and less, in another lying over the south of France.
Gradients rather steep over the Channel and north of France, but slight elsewhere.
Barometer rising in our Islands, the south of Norway and the coast of France, but falling elsewhere - most in Germany.

TEMPERATURE

Highest, 52° at Biarritz, 51° at Lyon, 50° at Nice and Salsburg, 49° at Rochefort, 45° at Seely, and 43° at Jersey.
Lowest, 22° at Haparanda, 27° at Rönneby, 23° at Munich, 31° at Doughty, and 32° at Stockholm and Rügen.
Frost occurred last night over the central parts of our Islands.

WIND

Light from the NWth or Nth over the northern parts of Great Britain, fresh or strong from NE. over the south of England and north of France.
Moderate from NW. at Lisbon, and from SW. or S. in the south of France; light from SE or E. in Germany.
Light from SW. in Denmark, moderate from the SW. in Sweden.

WEATHER

Fine in our Islands as well as on the eastern shores of the North Sea and in the northwest of France.
Cloudy elsewhere with rain at many of the French and German stations.
Rain fell yesterday in France and the south of England, and a little snow in Scotland.

SEA

Rough at Lisbon, and rather rough at Rüdens, and Cape Finlay, but moderate to smooth elsewhere.

PROBABLE CHANGES IN SYSTEM NOW PREVALENT

In addition to the large depressions which lie over the south of France there are some indications of the formation of other disturbances over Germany. The NEth winds on our south and southeast coasts are therefore likely to increase in force, with rain in some localities.

FORECASTS

for the 24 hours ending at NOON on 12th March.

1889.

DISTRICTS.

FORECASTS.

0	SCOTLAND NORTH	N th winds, moderate; fair generally.
1	SCOTLAND EAST	
2	ENGLAND N.E.	N th winds, light, to NE th fresh; fair to showery
3	ENGLAND EAST	Same as No 5
4	MIDLAND COUNTIES	Same as No 2
5	ENGLAND SOUTH	NE th winds, strong; fair to unsettled with some rain or sleet.

DISTRICTS.

FORECASTS.

6	SCOTLAND WEST	N th to variable breezes, fine generally.
7	ENGLAND N.W.	
8	ENGLAND S.W.	N th winds, strong; fair generally.
9	IRELAND NORTH	S th to W th winds, light; unsettled; some cold showers.
10	IRELAND SOUTH	N th or NW th winds, light; fair generally.

WARNINGS

The NORTH CONE was hoisted yesterday in district 5 and part of 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.	Wet.	Sea.		Bar.	Dry.	Wet.	Wind.	Wet.	Sea.
Skudesnaes ...	29.40	38	37	S E	0	6	Holyhead ...	29.78	46	44	NW 2	6	2
Snmburgh Head ...							Valencia ...						
Stornoway ...	29.68	40	40	N H	5	4	Silly ...						
Aberdeen ...							Jersey ...	29.58	49	47	NE 3	0	3
Shields ...							Dungeness ...	29.68	41	41	E 3	7	2
Ardrossan ...							London ...						
Malin Head ...	29.78	45	42	NW 2	6	2	Yarmouth ...						
Mallaghmore ...							Rochefort ...	29.54	53	50	SE 4	7	2
Balmullet ...	29.83	47	43	NW 3	6	*							

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

Yesterday morning's reports showed that pressure remained high (30.3 in. to 30.8 in.) over Russia, and it decreased in a westerly direction to 29.9 in. and less in a depression which lay off the west of Norway, and to 29.4 in. and less in a new, but not deep, disturbance, which was advancing across the north-west of Spain towards the Bay of Biscay and France. The barometer was rising in most places, but falling at the Spanish and western French stations. The winds over the eastern half of Europe were anticyclonic - light from E at the southern stations, moderate from S in the north, over northwestern Europe they circulated round the depression near Christiansund - being SE to S in Norway, SW to W over the North Sea, and W to NW in the north of our Islands; but in western Europe they circulated round the new depression near Biscaya - being W at Iceland, S over Spain, SE over Brittany, and E to NE over our own southwestern coast. Weather was dull at nearly all the continental stations, and snow was falling at Warsaw; over many parts of the British Islands it was fine, but while snow showers fell in Caithness, and damp fog prevailed in London, a steady fall of rain had set in at our southwestern stations, and an ugly appearance of the sky was reported at Braemar Point. Temperature was still below zero at Moscow, much below the freezing point over Lapland and the northern, western and southern parts of Russia, and some few degrees below over Poland, Austria and some parts of North Germany; elsewhere the readings were above the freezing point, except over central England where at Oxford and Loughborough, the value was 32°. The lowest readings were -2° F at Moscow, +10° at Khabarov, 16° at Kiev, and 19° at Nicolaieff; 13° at St. Petersburg, 5° at Tientsin, 19° at Archangel, 20° at Hankow, 20° at Mian, 21° at Warsaw, 23° at Munich, 28° at Swinemünde, at Berlin it was 31°, in London 38°, at Paris 41° and at Brussels 42°. The highest values were 66° at La Caille, 62° at Algiers, 57° at Palermo and Cagliari, 56° at Biarritz, 54° at Brindisi and Langunair, 53° at Barcelona, 52° at Rome and Naples, and 48° at Brest.

Later on the depression in the southwest moved eastwards, a good deal of rain fell at the French stations, and a smaller quantity along the south coast of England. In London the sky was densely overcast throughout the day, but only a few spots of rain fell.

SUMMARY OF CHANGES IN THE WEATHER OVER THE BRITISH ISLANDS AND THEIR NEIGHBOURHOOD FROM THE 3RD TO THE 9TH MAR. 1889.

The weather of the past week has been exceedingly changeable and unsettled, especially over England, where heavy falls of rain and serious floods were reported at the close of the period. Temperature has changed suddenly and irregularly, but has been upon the whole rather below the average for the time of year.

At the commencement of the week pressure was highest over Scandinavia, and relatively high over Spain - the lowest readings being found in a shallow area which lay to the west and southwest of the British Islands. On the 4th this area split up into two well marked, though somewhat shallow depressions; and while one of these travelled south-eastwards to the Bay of Biscay and France and occasioned strong SE winds and heavy falls of rain or snow in the southwest of England, the other moved northwards along our extreme west coast, and produced unsettled weather over our northern and northwestern districts.

On the 6th the high pressure system over Scandinavia began to give way, while the barometer rose decidedly over France. The wind over our Islands therefore shifted from E. or SE. to S. and on the following day when a depression appeared over our southwest coast a moderate S. gale was experienced in the Channel and southeast of England, with heavy rain in many parts of our southern districts. The depression ultimately extended north-eastwards across England, but on the night of the 7th a new disturbance advanced to the mouth of the English Channel. This latter gradually increased in depth and travelled in an easterly and afterwards in a northeasterly direction to the North Sea, its progress being attended by unusually heavy rains over the Midlands and west of England, and by S. to W. gales over the Channel and our southeast coasts. At Loughborough 2.1 in. of rain fell during the 24 hours ending 8 a.m. on the 9th and at York 1.1 in., the largest falls being 0.8 in. at York and 0.7 in. at Shields. At Ross (Herefordshire) 2.2 in. fell between 9 a.m. of the 6th and 7 p.m. of the 8th, and 1.1 in. between 9 a.m. of the 8th and 7 p.m. of the same day.

At the close of the week the depression was moving northwards over the North Sea, and a very decided improvement had taken place in the weather over our Islands. During the early part of the week temperature was very low generally, the lowest readings being at Ullastown on the night of the 4th and 5th at Shields on the night of the 3rd. Later on, however, when the wind became more S. the thermometer rose decidedly, and on the 7th 8th and 9th maximum readings, slightly exceeding 50° were registered at several of our 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 5 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, 12th March, 1889.*
 Issued by the Meteorological Office 63 Victoria Street, London. R. H. SCOTT, Secretary.

Issued by the Meteorological Office, 55, Victoria Street, London, W. 1. 1907.																		
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 8 a.m. 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 ..	29.71	26	S	4	S	29.58	- 2.0	27	26	+ 5	2	0	0	*	27	19	0.08	
Hernösand ...	29.64	32	S	4	S	29.66	- 0.1	32	30	0	W	2	6c	*	37	27	-	
Stockholm ...	29.72	33	S	2	0	29.68	- 1.0	29	25	- 3	2	0	5	*	37	?	0.04	
Wisby ...	29.78	32	SE	4	S	29.70	- 1.4	32	32	- 1	S	4	5	*	37	30	0.28	
Bodö ...	29.45	34	E	3	0	29.55	+ 1.3	33	31	- 1	W	2	0	1	37	30	0.84	
Christiansund...	29.76	35	N	4	S	29.90	+ 4.8	31	30	- 7	W	6	S	4	?	28	0.16	
Skudesnaes ...	29.85	29	NW	7	6	30.00	+ 4.3	34	32	- 4	NW	4	6	3	39	32	-	
Christiania Fjord (Fæder)	29.67	32	SSW	2	6c	29.85	+ 2.3	33	31	0	NW	2	6c	1	34	28	-	
Skagen (The Scaw)	29.70	33	W	1	0	29.82	+ 1.4	33	33	+ 1	NNE	2	0	1	39	32	-	
Fanö ...	29.82	33	NW	4	c	29.90	+ 1.4	35	32	+ 2	NW	4	6	*	39	32	-	
BRITISH ISLANDS.																		
Sumburgh Head	30.02	36	Z	0	0	29.87	+ 0.5	38	38	+ 1	SSE	3	7	4	39	33	0.09	
Stornoway ..	30.00	42	SW	6	7	29.99	- 0.3	47	47	+ 12	W	4	7	3	47	34	0.06	
Wick ...	30.06	37	Z	0	0	29.96	- 0.3	45	44	+ 8	W	3	0	2	45	35	0.10	
Nairn ...	30.07	42	Z	0	0	29.99	- 0.2	47	46	+ 12	W	2	0	2	47	35	-	
Aberdeen...	30.12	37	NW	1	c	30.04	+ 0.4	42	40	+ 6	SW	1	cm	3	42	36	-	
Leith ...	30.12	39	W	1	m	30.10	+ 0.7	47	45	+ 11	W	1	e	*	50	34	-	
Shields ...	30.14	38	N	2	6c	30.12	+ 1.4	42	41	+ 8	W	2	cp	3	44	33	-	
Spurn Head ...	30.11	38	NW	5	c	30.16	+ 2.2	37	36	+ 1	WSW	2	0	3	44	34	-	
York ...	30.10	39	N	1	b	30.15	+ 1.8	40	39	+ 7	W	1	0	*	45	30	-	
Loughborough	30.16	39	N	2	m	30.23	+ 2.3	39	38	+ 8	W	3	0	*	47	29	-	
Ardrossan ...	30.15	43	S	1	0	30.18	+ 1.2	47	46	+ 9	NW	2	0	1	47	37	0.02	
Malin Head ...	30.13	44	SW	4	57	30.19	+ 1.2	45	45	+ 7	W	4	0	3	47	38	0.11	
Mullaghmore ...	30.21	46	WSW	4	om	30.28	+ 1.9	46	45	+ 7	WSW	4	0	3	50	38	0.02	
Belmullet ...	30.24	49	W	3	0	30.31	+ 1.9	47	46	+ 9	W	3	0	*	51	37	0.01	
Donaghadee ...	30.19	43	S	2	6c	30.24	+ 1.7	44	43	+ 8	W	3	0	1	46	35	0.05	
Barrow-in-Furness	30.16	40	NW	3	b	30.20	+ 1.9	44	43	+ 10	SW	3	cp	*	45	34	0.03	
Liverpool (Bidston)	30.20	37	NW	2	b	30.24	+ 2.2	43	42	+ 7	W	5	0	3	43	36	0.04	
Holyhead ...	30.21	42	NW	1	6c	30.28	+ 2.3	45	45	+ 2	WNW	3	6c	2	45	41	0.04	
Parsonstown ...	30.24	48	Z	0	0	30.35	+ 2.3	45	43	+ 18	Z	0	0	*	52	27	0.01	
Valencia ...	30.33	51	NW	1	c	30.44	+ 2.8	46	45	+ 7	NW	2	c	2	54	39	0.03	
Roche's Point...	30.28	48	NW	2	b	30.39	+ 2.8	47	44	+ 8	W	3	c	3	50	38	-	
Pembroke ...	30.24	42	NNE	2	b	30.34	+ 3.1	46	45	+ 7	NW	3	c	2	47	38	0.02	
Scilly ...	30.24	46	N	4	6c	30.38	+ 3.9	48	47	+ 3	NW	4	0	3	48	44	-	
Prawle Point ...	30.18	42	N	3	b	30.35	+ 4.0	42	41	+ 2	NW	2	agp	2	51	34	-	
Jersey ...	30.11	45	N	4	6c	30.37	+ 5.2	38	35	- 5	NW	2	om	2	47	34	-	
Hurst Castle ...	30.14	41	NNE	4	m	30.33	+ 4.1	38	38	0	WNW	3	om	2	41	32	0.01	
Dungeness ...	30.04	41	NE	5	6c	30.25	+ 4.2	31	30	- 8	NNE	2	b	1	44	27	-	
London ...	30.11	40	NNE	3	b	30.28	+ 3.5	33	32	- 5	WSW	1	0	*	46	28	-	
Oxford ...	30.21	35	NNE	1	b	30.29	+ 3.2	36	34	+ 2	W	1	7	*	47	31	-	
Cambridge ...	30.14	35	N	2	b	30.25	+ 2.9	34	33	- 1	SW	1	7	*	47	27	-	
Yarmouth ...	30.03	39	N	4	6c	30.20	+ 3.3	34	32	- 5	WNW	2	bcm	3	43	30	-	
Cuxhaven ...	29.78	35	N	4	0	29.97	+ 2.6	36	35	0	N	5	c	*	37	34	0.06	
Berlin ...	29.69	43	Z	0	0	29.90	+ 1.9	35	34	+ 1	NW	4	0	*	46	34	0.04	
Wiesbaden ...	*	*	*	*	*	30.04	+ 3.9	37	34	- 3	NW	3	0	*	45	36	0.35	
Munich ...	29.63	35	SW	1	m	29.86	+ 1.9	33	33	+ 4	SW	2	f	*	39	28	0.04	
FRANCE & NETHERLANDS.																		
The Helder ...	29.98	37	N	3	b	30.16	+ 3.8	38	35	0	NW	2	c	2	39	36	-	
Brussels ...	*	*	*	*	*	30.23	+ 4.5	36	34	+ 1	NW	1	b	*	41	34	0.08	
Cape Gris Nez...	?	39	NE	6	b	?	?	37	?	- 3	N	3	b	4	?	36	-	
Paris ...	29.91	40	N	4	0	30.25	+ 6.1	35	34	- 3	N	3	b	*	42	35	0.04	
Brest ...	? 30.21	46	N	4	6c	? 30.42	+ 5.6	42	37	0	N	1	6c	2	52	34	-	
Lorient ...	30.13	44	NNE	5	6c	30.34	+ 5.9	39	37	- 3	NNE	3	6c	2	48	36	-	
Rochefort ...	29.97	46	NNE	5	6c	30.36	+ 8.2	38	34	- 11	NNE	5	b	2	54	32	0.59	
Belfort ...	29.63	38	W	1	0	30.01	+ 3.9	35	35	- 7	W	1	7	*	32	31	0.28	
Lyons ...	29.63	52	WSW	3	c	30.07	+ 5.6	33	32	- 18	NW	3	75	*	61	32	0.04	
Nice ...	29.76	50	Z	0	c	29.78	+ 1.1	45	44	- 5	E	4	c	1	54	43	0.20	
Perpignan ...	29.79	48	WNW	2	0	30.08	+ 6.0	41	36	- 5	NW	5	6c	*	63	40	0.08	
Biarritz ...	? 29.84	43	N	6	7	? 30.29	+ 8.1	39	34	- 13	NE	6	c	4	?	36	0.16	
PENINSULA.																		
Corunna ...	*	*	*	*	*	*	*	*	*	*	NNE	5	b	3	55	46	0.04	
Lisbon ...	30.05	49	N	4	b	30.11	+ 1.8	47	42	- 3	NNE	5	b	3	55	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

Tuesday, 12th March.

1889.

BAROMETER, WIND & SEA.

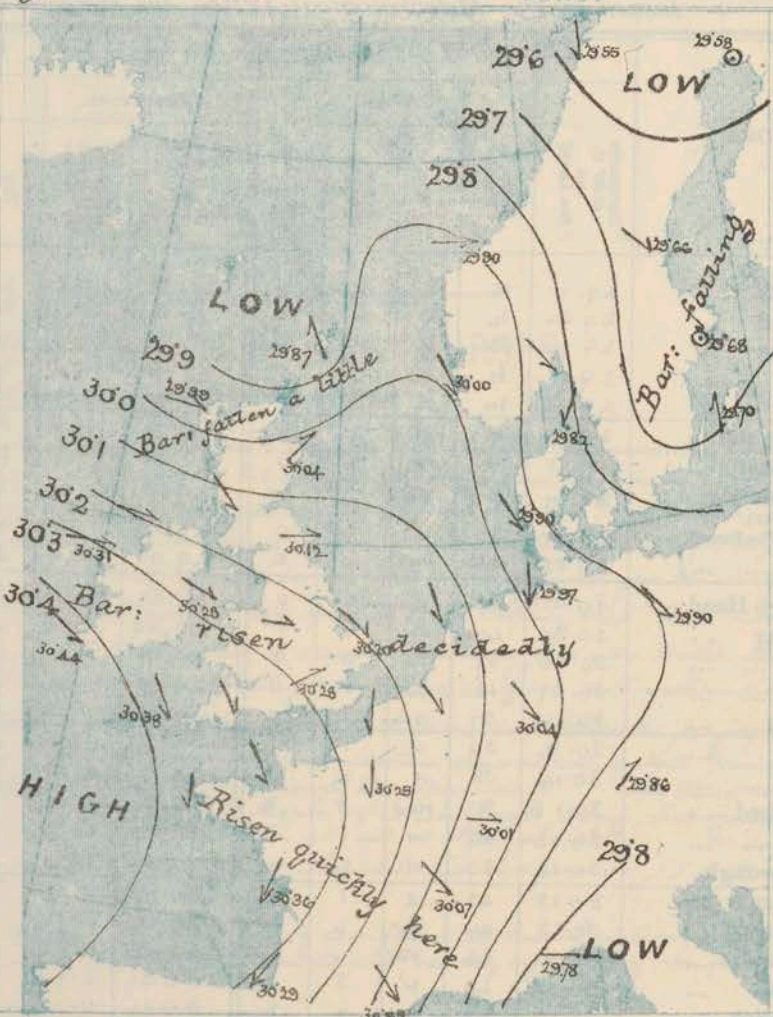
(Explanation of Map)

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 March
 During the 15 Years 1871—1885.

STATIONS	MEAN READINGS.
Sumburgh Head	29.751
Stornoway	29.779
Wick	29.797
Nairn	29.815
Aberdeen	29.830
Leith	29.862
Shields	29.896
York	29.925
Loughborough	29.948
Ardrossan	29.876
Donaghadee	29.892
Holyhead	29.919
Liverpool	29.925
Parsonstown	29.940
Valencia	29.938
Roche's Point	29.941
Pembroke	29.944
Scilly	29.960
Jersey	29.971
Hurst Castle	29.986
Dover	29.955
LONDON	29.937
Oxford	29.949
Cambridge	29.967
Yarmouth	29.938



TEMPERATURE, & WEATHER at 8 A.M., with RAINFALL in PAST 24 HOURS.

Temperature—Isotherms are drawn for each 10° Changes since previous morning are stated in words.
Weather—is shown by Letters of the Beaufort Scale.
Rainfall—A dotted line separates the districts in which rain has fallen from those where there has been none. Falls of 0.5 in. or more, are quoted in figures.

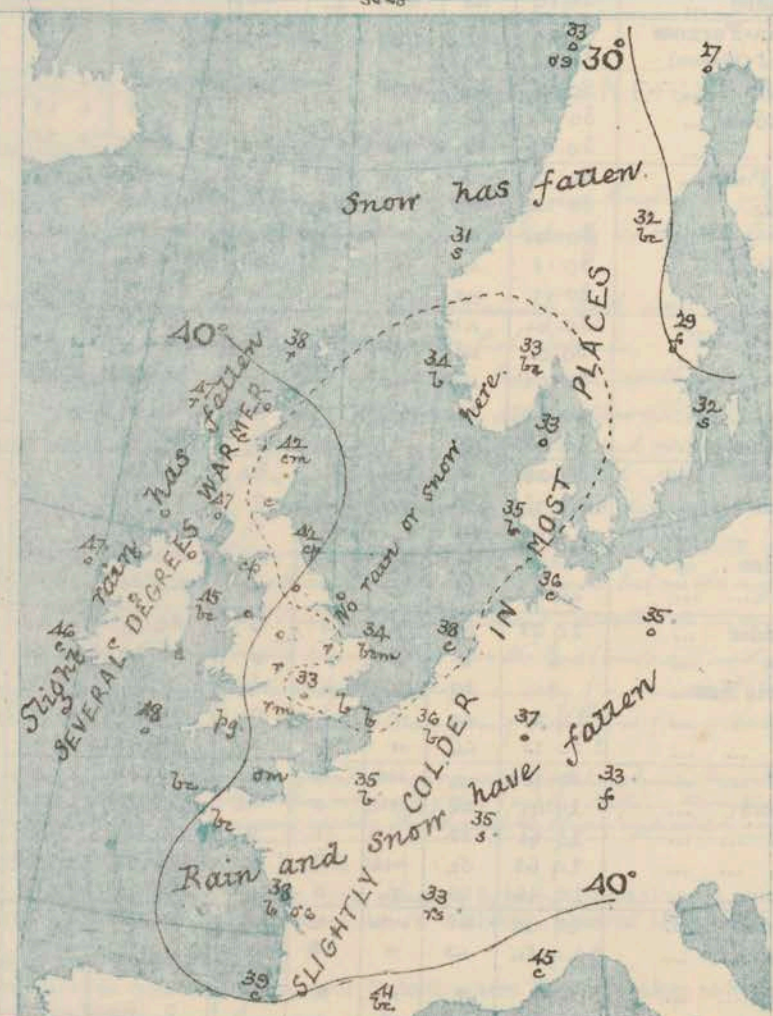
MEANS OF TEMPERATURE IN SHADE.

AND RAINFALL.

for the month of March.

STATIONS	TEMPERATURE				RAINFALL (Inches)
	Daily Max.	Daily Min.	at 8 a.m.	at 8 a.m.	
			Dry.	Wet.	
Sumburgh Head	42.8	34.0	38.5	37.1	2.02
Stornoway	44.9	34.4	39.2	35.0	3.87
Wick	44.7	33.9	39.1	37.2	1.97
Nairn	45.6	34.2	38.2	36.3	1.73
Aberdeen	45.4	34.7	38.9	36.8	2.24
Leith	48.2	34.6	38.7	37.9	1.36
Shields	45.2	35.4	39.6	38.0	1.80
York	48.9	33.7	38.6	37.1	1.63
Loughborough	49.8	34.3	39.5	37.7	1.47
Ardrossan	46.8	36.6	40.5	38.7	2.59
Donaghadee	47.3	37.1	41.0	39.7	1.89
Holyhead	47.6	39.2	42.5	41.0	2.21
Liverpool	47.3	37.1	40.8	38.7	1.69
Parsonstown	50.1	35.5	41.2	39.6	2.35
Valencia	51.6	40.6	45.4	43.4	4.24
Roche's Point	50.2	40.0	43.8	42.1	3.71
Pembroke	47.1	39.5	42.6	40.8	2.45
Scilly	49.9	43.0	46.5	44.7	2.38
Jersey	49.9	40.5	44.7	42.7	2.32
Hurst Castle	48.3	37.7	41.6	40.7	1.80
Dover	46.9	37.8	41.6	39.9	1.86
LONDON	50.6	35.8	40.6	38.7	1.43
Oxford	49.5	35.2	39.4	37.9	1.52
Cambridge	50.6	33.3	39.2	37.7	1.33
Yarmouth	45.7	35.8	40.8	39.1	1.77

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



GENERAL SITUATION AT 8 A.M.

PRESSURE	Highest, 30.20 ins. to 30.45 ins. in the eastern part of an anticyclone which spreads eastwards from the Atlantic, over Ireland, England, and the greater part of France. Lowest, 29.9 ins. and less, over the Shetlands, 29.6 ins. and less, over England, 29.7 ins. and less over Sweden, 29.8 ins. and less, over the Gulf of Genoa. Barometer inclined to fall in the north, rising in the south and over France.
TEMPERATURE	Highest, 48° at Scilly, 47° at Stornoway, Leith, Helmslet, Rochefort and Lisbon, 46° at Valencia. Lowest, 27° at Haparanda, 25° at Stockholm, 31° at Rungtörs, 35° at Munich, and in London, 35° at Paris and Berlin, and 36° at Brussels. It was as low as 28° in the shade and 15° on the grass in London early this morning, but subsequently rose quickly as the sky became overcast and the wind backed to the S.W.
WIND	Moderate from N. and S.W. at our most northern and northwestern stations, N.W. in the southeast and south. N. to N.E. over France and Spain — N. and N.W. to the eastward of the North Sea, but S. at Kiel, calm at Stockholm and Haparanda.
WEATHER	Cloudy, or overcast throughout our Islands, with cold showers in several places — fine in the north of France. Snow is falling in several parts of Scandinavia and over some of the southern parts of France. Snow has fallen in large quantities at some Norwegian stations.
SEA	Light as a whole — moderate in a few localities — smooth in others.

PROBABLE CHANGES IN SYSTEM NOW PREVALENT

The changes in pressure are so feeble and irregular that unsettled weather, with cold showers at times, will probably continue in most districts during the coming twenty-four hours.

FORECASTS

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

DISTRICTS.

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

FORECASTS.

Varying W^{ly} to NW^{ly} winds; dull, unsettled, rain and sleet at times.

SW^{ly} to NW^{ly} breezes, light; changeable, cold rain and sleet at times.

DISTRICTS.

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

FORECASTS.



Same as Nos 0 to 2.

NW^{ly} breezes, moderate or light; some cold showers.

Same as Nos 0 to 2.

WARNINGS

NONE ISSUED.

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

YESTERDAY'S 2 P.M. REPORTS.

	Bar.	Dry.	Wet.	Wind.	Wca.	Sea.		Bar.	Dry.	Wet.	Wind.	Wca.	Sea.
Skudesnaes ...	29.73	39	37	NW 6	C	4	Holyhead ...	30.16	44	42	NNE 2	6	2
Sumburgh Head ...	29.99	38	33	N 4	O	4	Valencia ...	30.27	53	48	NW 3	6v	3
Stornoway ...	30.04	45	42	SW 4	O	4	Scilly ...	30.16	47	43	N 5	6c	4
Aberdeen ...	30.09	40	35	NW 4	6c	3	Jersey ...	30.01	47	40	N 5	6	4
Shields ...	30.10	41	37	N 3	C	4	Dungeness ...	29.93	43	38	NE 5	C	4
Ardrossan ...	30.12	46	42	W 1	6	1	London ...	30.03	44	42	NE 5	C	*
Malin Head ...	30.13	46	45	NW 1	O	O	Yarmouth ...	29.97	43	40	N 5	6	4
Mullaghmore ...	30.19	47	44	NW 4	O	2	Rocheport ...	29.79	42	40	NE 6	r	4
Belmullet ...	30.19	50	46	W 2	6c	*							

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

Continental Information not received.

EXPLANATION OF COLUMNS GIVEN ON PAGE 1.

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

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

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

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DAILY WEATHER REPORT.

for WEDNESDAY 13TH MARCH

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. 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 ..	29.58	26	Z	0	bc	29.58	0.0	20	2	-7	E	4	0	*	30	?	0.04		
Hernösand ...	29.59	31	NW	4	0	29.60	+0.2	28	26	-4	N	2	c	*	41	27	—		
Stockholm ...	29.73	28	W	2	bc	29.72	+0.4	23	21	-6	Z	0	bc	*	36	27	—		
Wisby ...	29.82	32	W	4	bc	29.82	+0.12	28	28	-4	SW	2	bc	*	34	28	—		
Bodö ...	29.69	30	Z	0	c	29.70	+0.23	25	22	-8	E	2	bc	1	34	23	—		
Christiansund...	29.83	32	SW	2	bc	29.71	-0.19	29	27	-2	E	2	bc	3	34	27	0.08		
Skudesnaes ...	29.86	32	SE	6	s	29.54	-0.46	36	?	+2	ENE	4	bc	4	39	32	—		
Christiania Fjord (Fjorder)	29.87	34	SW	2	bc	29.46	-0.39	27	27	-6	N	5	0	1	36	23	—		
Skagen (The Seaw)	29.91	32	W	1	0	29.51	-0.31	33	32	0	SW	1	bc	1	39	32	0.16		
Fanö ...	30.07	34	W	4	0	29.71	-0.19	37	37	+2	WNW	4	bc	*	39	32	0.32		
BRITISH ISLANDS.																			
Sumburgh Head	29.65	45	W	4	bc	29.83	-0.04	38	37	0	N	4	bc	4	46	36	0.39		
Stornoway ...	29.90	50	W	6	bc	30.14	+0.15	45	44	-2	NW	4	0	4	50	43	0.12		
Wick ...	29.81	49	W	5	bc	30.00	+0.04	42	40	-3	NW	7	bc	4	51	40	0.05		
Nairn ...	29.90	50	WNW	4	0	30.06	+0.07	45	43	-2	W	4	0	2	54	44	0.01		
Aberdeen...	29.94	50	SW	4	bc	29.97	-0.07	46	42	+4	WNW	8	bc	5	58	42	—		
Leith ...	30.06	49	W	2	c	30.07	-0.03	47	43	0	W	2	bc	*	58	43	—		
Shields ...	30.10	49	W	4	bc	30.04	-0.08	48	40	+3	W	3	bc	2	55	41	0.01		
Spurn Head ...	30.16	44	W	3	c	30.05	-0.11	44	42	+7	W	4	c	3	45	36	—		
York ...	30.15	49	W	2	bc	30.06	-0.09	47	44	+7	W	2	bc	*	52	29	—		
Loughborough	30.25	47	W	2	0	30.15	-0.08	48	46	+9	WNW	4	0	*	52	39	—		
Ardrossan ...	30.15	50	WNW	4	0	30.15	-0.03	47	46	0	W	4	c	3	50	45	0.05		
Malin Head ...	30.16	47	WNW	4	dom	30.25	+0.06	46	45	+1	NW	4	om	3	49	45	0.02		
Mullaghmore...	30.28	48	SW	5	omp	30.35	+0.07	47	45	+1	WNW	4	om	3	52	45	0.04		
Belmullet ...	30.31	49	W	4	od	30.39	+0.08	48	47	+1	NW	2	0	*	51	47	0.04		
Donaghadee ...	30.24	50	W	3	c	30.24	0.0	48	46	+4	NW	4	c	2	54	44	0.01		
Barrow-in-Furness	30.23	45	SW	3	0	30.18	-0.02	45	44	+1	NW	4	0	*	47	43	0.03		
Liverpool (Bidston)	30.27	44	W	3	0	30.22	-0.02	45	43	+2	W	5	c	4	47	43	0.03		
Holyhead ...	30.30	49	WNW	3	og	30.27	-0.01	45	44	0	NW	3	cw	2	51	45	0.01		
Parsonstown ...	30.36	50	WNW	2	0	30.37	+0.02	45	45	0	Z	0	bc	*	53	44	0.02		
Valencia ...	30.44	50	W	3	0	30.45	+0.01	51	50	+5	NW	2	om	3	55	46	0.03		
Roche's Point...	30.39	50	WNW	4	c	30.36	-0.03	50	48	+3	WNW	3	c	3	51	46	—		
Pembroke ...	30.35	46	WNW	4	c	30.32	-0.02	47	46	+1	NW	4	cp	2	47	45	0.03		
Scilly ...	30.40	49	NW	5	0	30.38	0.0	49	48	+1	WNW	3	0	4	50	46	0.01		
Prawle Point ...	30.35	45	WNW	2	bc	30.34	-0.01	46	45	+4	NW	4	cq	2	52	40	0.01		
Jersey ...	30.34	47	WNW	2	bc	30.34	-0.03	46	45	+8	NW	3	ogm	3	47	37	0.05		
Hurst Castle ...	30.30	48	WNW	3	c	30.27	-0.06	43	42	+5	W	2	c	1	51	37	0.02		
Dungeness ...	30.24	41	W	3	bc	30.21	-0.04	42	41	+11	W	4	c	3	50	30	—		
London ...	30.28	47	NW	1	cf	30.20	-0.08	41	40	+8	WNW	2	0	*	48	32	0.03		
Oxford ...	30.31	46	WNW	2	0	30.22	-0.07	42	41	+6	SW	3	op	*	51	35	—		
Cambridge ...	30.24	47	NW	1	0	30.15	-0.10	46	45	+12	WNW	1	0	*	54	33	—		
Yarmouth ...	30.20	45	W	1	bc	30.06	-0.14	45	44	+11	WNW	4	c	3	45	34	0.01		
Cuxhaven ...	30.11	37	NW	2	bc	29.89	-0.08	37	37	+1	SW	6	f	*	40	35	0.06		
Berlin ...	30.11	37	NW	4	bc	30.09	+0.19	33	32	-2	WNW	3	f	*	43	30	—		
Wiesbaden ...	*	*	*	*	*	30.24	+0.20	32	30	-5	NW	2	bc	*	43	30	—		
Munich ...	30.19	31	SW	3	s	30.21	+0.35	31	30	-2	NW	1	0	*	34	28	0.51		
GERMANY.																			
The Helder ...	30.21	39	WNW	1	c	30.00	-0.16	41	40	+3	SW	3	f	3	41	37	—		
Brussels ...	*	*	*	*	*	30.20	-0.03	40	39	+4	SW	5	f	*	44	32	—		
Cape Gris Nez...	?	41	WNW	2	c	?	?	41	40	+4	WNW	2	m	2	43	36	—		
Paris ...	30.31	41	N	1	c	30.30	+0.05	32	32	-3	Z	0	m	*	47	30	—		
Brest ...	30.42	50	WNW	3	0	30.41	-0.01	48	44	+6	Z	0	0	2	52	36	—		
Lorient ...	30.37	48	N	2	0	30.37	+0.03	44	42	+5	NE	2	c	2	48	37	—		
Rochefort ...	30.37	46	NW	3	bc	30.34	-0.02	37	37	-1	E	2	bc	2	48	32	—		
Belfort ...	30.19	33	E	1	0	30.23	+0.22	37	35	+2	E	1	bc	*	37	27	—		
Lyons ...	30.21	35	N	5	s	30.23	+0.16	34	31	+1	WNW	6	c	*	37	32	—		
Nice ...	29.89	49	NW	1	c	29.99	+0.21	42	41	-3	ENE	2	bc	+	53	39	—		
Perpignan ...	30.17	41	NW	4	c	30.16	+0.08	41	34	0	NW	3	bc	*	46	39	—		
Biarritz ...	30.32	45	ENE	5	c	30.28	-0.01	38	35	-1	ENE	3	c	2	46	36	—		
FRANCE & NETHERLANDS.																			
Corunna ...	*	*	*	*	*	30.26	+0.15	43	37	-4	NNE	4	bc	?	57	41	—		
Lisbon ...	30.20	51	N	3	bc	30.26	+0.15	43	37	-4	NNE	4	bc	?	57	41	—		
PENIN. SULA.																			

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 13th March

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.

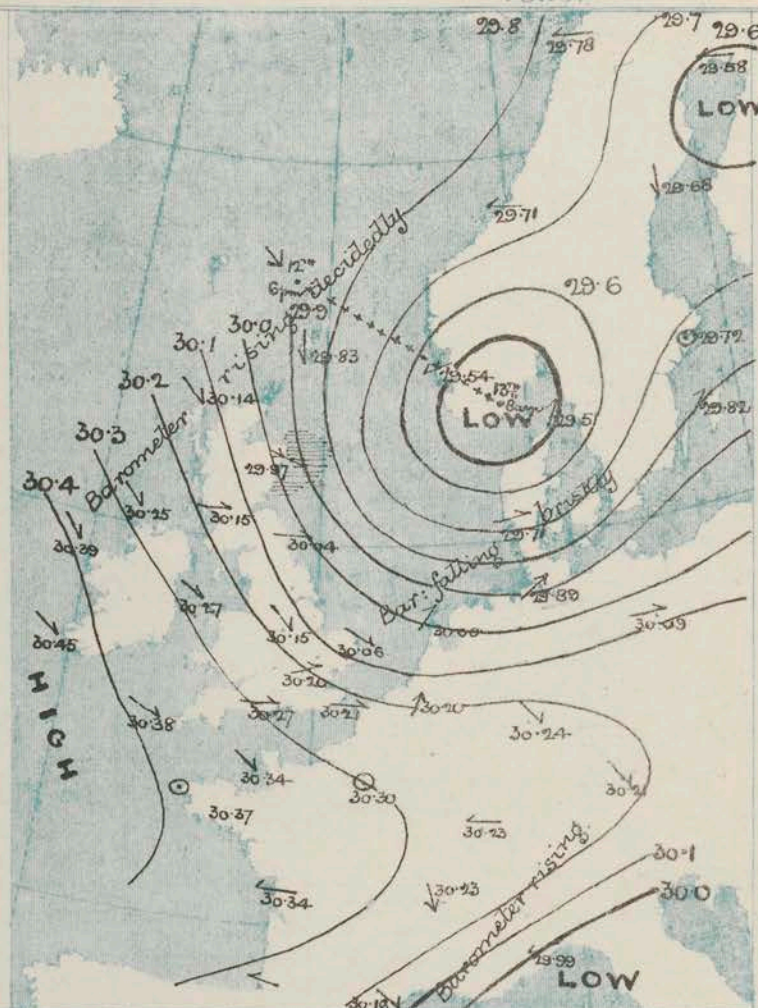
Sea Disturbance — where considerable, is shown thus:

— Rough — High

MEAN HEIGHT of the BAROMETER

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

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



TEMPERATURE & WEATHER at 8 a.m.

with RAINFALL in PAST 24 HOURS.

Temperature — Isotherms are drawn for each 10° changes since previous morning are stated in words.

Weather — is shown by Letters of the Beaufort Scale.

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

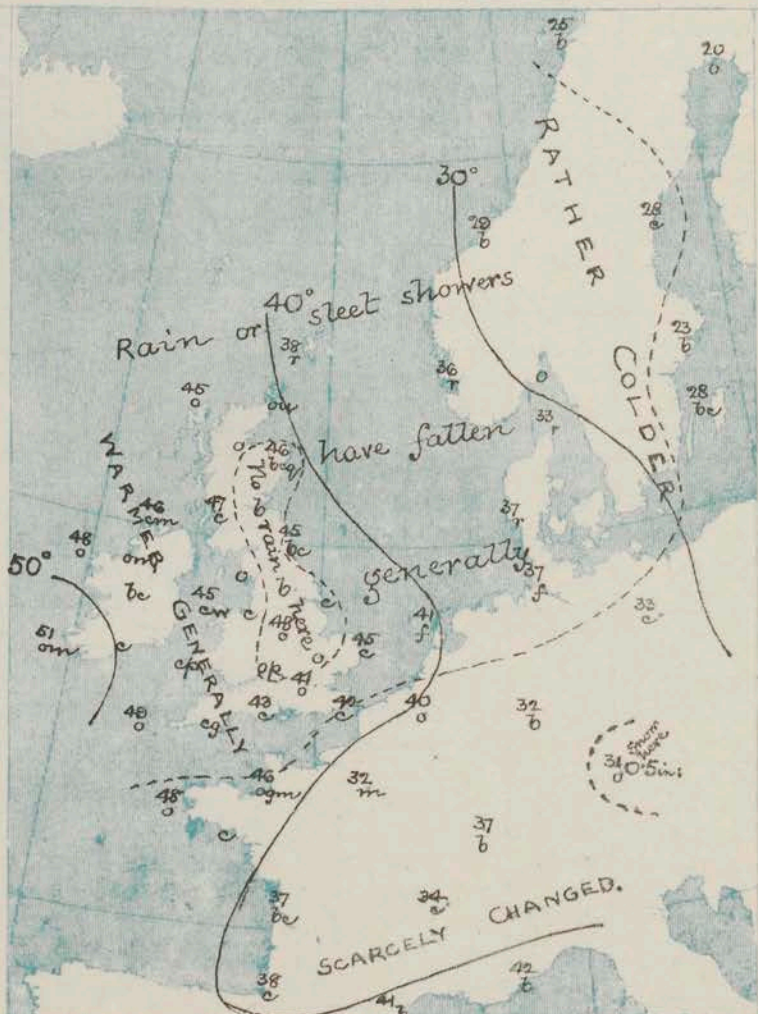
MEANS OF TEMPERATURE IN SHADE.

AND RAINFALL.

for the month of March.

STATIONS	TEMPERATURE				RAINFALL. (Inches)
	Daily Max	Daily Min	at 8 a.m.		
			Dry	Wet	
Sumburgh Head	42.6	34.0	38.5	37.1	2.92
Stornoway	44.9	34.4	39.2	38.0	3.87
Wick	44.7	33.9	39.1	37.2	1.97
Nairn	45.6	34.2	38.2	36.3	1.72
Aberdeen	45.4	34.7	38.9	36.8	2.24
Leith	45.2	34.6	39.7	37.9	1.36
Shields	45.9	35.4	39.6	38.0	1.60
York	45.9	33.7	38.6	37.1	1.63
Loughborough	49.8	34.3	39.5	37.7	1.47
Ardrossan	46.3	36.6	40.5	38.7	2.59
Donsghadee	47.3	37.1	41.0	39.7	1.93
Holyhead	47.6	39.2	42.5	41.0	2.21
Liverpool	47.3	37.1	40.8	38.7	1.69
Parsonstown	50.1	35.5	41.2	39.6	2.35
Valencia	51.6	40.6	45.4	43.4	4.24
Roche's Point	50.2	40.0	43.8	42.1	3.71
Pembroke	47.1	39.5	42.6	40.8	2.45
Scilly	49.9	43.0	46.5	44.7	2.38
Jersey	49.0	40.5	44.7	42.7	2.32
Hurst Castle	48.3	37.7	41.6	40.7	1.80
Dover	46.9	37.8	41.6	39.9	1.86
LONDON	50.6	35.8	40.6	38.7	1.43
Oxford	49.5	35.2	39.4	37.9	1.52
Cambridge	50.6	33.3	39.2	37.7	1.33
Yarmouth	45.7	35.8	40.8	39.1	1.77

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



GENERAL SITUATION AT 8 A.M.

PRESSURE	Highest, 30.20 in. to 30.45 in. over Ireland, the west and south of England, France, Spain and the Bay of Biscay. Lowest, 29.5 in. and less in a depression over the south of Norway, and in another over the northern extremity of the Gulf of Bothnia. Gradients are mainly favourable for W. and S.W. winds - moderate over our islands, rather steep over the North Sea. Barometer rising in our islands, most in the north, falling fast on the eastern shores of the North Sea.
TEMPERATURE	Highest 51° at Valencia, 48° at Seville, 48° at Belmullet and Brest, 47° at Leith and York, 46° at Bordeaux and Jersey. Lowest, 20° at Haparanda, 23° at Stockholm, 27° at Laredo, 31° at Munich, 32° at Paris, 33° at Berlin and 35° at Biarritz. It was as high as 58° at Bordeaux, 55° at Leith, Shields and Valencia and 54° at Ronghadee and Cambridge yesterday afternoon.
WIND	N.W. over the British Islands, generally - moderate in most places, but a gale in the north and east of Scotland. S.W. fresh in the Netherlands and Denmark - E. moderate over the Bay of Biscay - W. to N.E. in the south of France.
WEATHER	Cloudy and sunnied in the British Islands, squally and threatening in the north and east of Scotland, rather showery in some other localities. Fair in the northern parts of Scandinavia and over Central Europe. Snow and rain are falling in the Sizerack.
SEA	Rather rough off the north and east of Scotland, slight on our eastern, southern and western coasts.

PROBABLE CHANGES IN SYSTEM NOW PREVALENT

It is probable that the decrease of temperature in the north will become general by tomorrow, and that cold showers will occur except in the far west. A cold night is probable over England.

FORECASTS

For the 24 hours ending at NOON on 14th March 1889.

DISTRICTS.	FORECASTS.	DISTRICTS.	FORECASTS.
<div> <div>ft 0</div> <div>SCOTLAND NORTH</div> </div> <div> <div>ft 1</div> <div>SCOTLAND EAST</div> </div> <div> <div>ft 2</div> <div>ENGLAND N.E.</div> </div> <div> <div>3</div> <div>ENGLAND EAST</div> </div> <div> <div>4</div> <div>MIDLAND COUNTIES</div> </div> <div> <div>5</div> <div>ENGLAND SOUTH</div> </div>	<div> <div>ft 0</div> <div>NW gales and strong winds, moderating later; cold showers of rain and snow.</div> </div> <div> <div>ft 1</div> <div>NW winds, increasing; some cold showers.</div> </div> <div> <div>3</div> <div>NW winds; cloudy, perhaps a shower or two, cold and fine at night.</div> </div>	<div> <div>ft 6</div> <div>SCOTLAND WEST</div> </div> <div> <div>7</div> <div>ENGLAND N.W.</div> </div> <div> <div>8</div> <div>ENGLAND S.W.</div> </div> <div> <div>9</div> <div>IRELAND NORTH</div> </div> <div> <div>10</div> <div>IRELAND SOUTH</div> </div>	<div> <div>ft 6</div> <div>Same as N° 2.</div> </div> <div> <div>8</div> <div>NW breezes, moderate or fresh; fair as a whole, cold.</div> </div> <div> <div>10</div> <div>The North Cone was hoisted last evening in districts 0, 1, 6 and part of 2.</div> </div>

Note.—The South Cone, point downwards (ft) 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 (ft) 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.
Skudesnes ...	30.01	39	38	WNW 2	0	3	Holyhead ...	30.29	49	47	WNW 3	0	2
Sumburgh Head ...	29.81	45	44	W 2	2	4	Valencia ...	30.44	58	50	W 4	C	4
Stornoway ...	29.94	49	49	W 6	2m	5	Scilly ...	30.40	50	48	WNW 5	0	4
Aberdeen ...	30.00	54	48	SW 2	c/p	3	Jersey ...	30.27	45	43	WNW 3	od	3
Shields ...	30.12	50	50	W 3	b	3	Dungeness ...	30.24	43	40	W 4	2	3
Ardrossan ...	30.15	48	47	WNW 5	0	3	London ...	30.27	48	45	W 1	om g	*
Malin Head ...	30.19	49	48	WNW 4	C	3	Yarmouth ...	30.20	44	42	W 3	c/p	3
Mullaghmore ...	29.29	52	49	W 5	C	4	Rocheport ...	30.29	46	41	N 4	bc	2
Belmullet ...	30.32	51	50	W 5	0	*							

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

The reports for yesterday morning showed that pressure was highest, 30.8 in. and upwards, over central Russia, but high, 30 in. and upwards, in an anticyclone lying to the southwest of our Islands. The two high pressure systems were separated by a narrow trough of low readings which extended from Lapland across Sweden, the Baltic, eastern Germany and Austria to the Gulf of Genoa, but in addition to this low system there were indications of the existence of a shallow depression off the north of Scotland. The wind was moderate from the W in the north of our Islands, light from the NW and on our south coast, and moderate to strong from the SW in most other parts of western Europe. In Russia however, and also in Algeria, S breezes were reported, while in Italy the wind was chiefly W. The weather was fine in Spain and the west of France, as well as in Russia, and the south of Norway, but cloudy or overcast elsewhere, with rain at Sumburgh Head and Rome, and snow over Finland and the Baltic. Temperature had risen several degrees in the west and north of our Islands, and to a less extent in Austria and the south of Russia, but fallen elsewhere; readings ranged from between 50° and 60° over the Mediterranean and the Adriatic, to about zero over central Russia. The highest individual readings were 62° at Malta, 59° at Palermo and Sfax, 58° at Naples and La Cotta, 57° at Lesina and Brindisi, and 55° at Leghorn, Genoa and Algiers; the lowest were -1° at Moscow, +8° at Kharkov, 20° at St. Petersburg, and Kiev, 23° at Archangel, 24° at Kuopio and Helsingfors, 25° at Hangö and Odessa, 26° at Uleaborg and Riga, and 27° at Haparanda and Nicolaioff.

In the course of the day the depression to the northward of Scotland increased in depth, and began to travel in a southeasterly direction. During the ensuing night a moderate to fresh gale from the NW was experienced in the northeast of Scotland.

Remarks on the Weather over Europe for the 24 hours ending at 8 a.m. on March 12th.

The reports for yesterday morning showed that while the highest pressures, 30.6 in. and upwards, were still reported over central Russia, a new area of high readings, 30.4 in. and upwards, had appeared over the west and south of Ireland. The lowest readings, below 29.5 in., had advanced from the eastward to the south of France. The wind was moderate from the N in the northern parts of the United Kingdom, and fresh or strong from the NE over the south of our Islands and the north of France. In the south of France however, and in Algeria moderate SW or W breezes were reported, and in Austria and the south of Russia E. breezes, while in Sweden and northern Russia the wind was SE or S. The weather was fine in our Islands and the north of France, but cloudy or overcast in most other localities, with rain at several at the French and Italian stations, as well as at Lisbon, and fog in Germany and Denmark. Temperature had risen somewhat in Germany, Russia, Austria and Italy, but fallen in most other countries; readings ranged from 60° and upwards at some of the Algerian stations and 50° and upwards over the Mediterranean, to very little above zero over central Russia. The highest individual readings were 67° at Tunis, 63° at Sfax, 60° at Algiers and Malta, 59° at Caen and 54° at Sanguinaire, Rome and Nemours; the lowest were 4° at Moscow, 19° at Kuopio and Nicolaioff, 21° at Odessa, 22° at Haparanda and Uleaborg, 23° at Helsingfors, 24° at Hangö and Lemberg, and 27° at Riga and Parsonstown.

In the course of the day the depressions over the south of France travelled northeastwards and partially dispersed, and the barometer rose steadily over France and the south of our Islands. In Scotland however, a new fall of the barometer set in, the change being accompanied by a backing wind and unsettled 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 *Thursday, 14th March* 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 3.)	SHADE TEMP.		Amount of Rainfall.	
			Dirac.	Force. (0 to 12.)		Reading at 32° F. and Sea Level.	Difference from 8 a.m. yesterday.	Dry.	Wet.	Difference from 8 a.m. yesterday.	Dirac.	Force. (0 to 12.)			Max.	Min.		
SCANDINAVIA.																		
Haparanda ..	29.94	12	N	6	b	30.27	+ .69	0	-1	-20	2	4	b	*	28	?	-	
Hornösand ...	29.94	21	N	2	b	30.10	+ .42	11	10	-17	2	4	b	*	34	9	-	
Stockholm ...	29.78	26	NE	2	b	29.93	+ .21	17	16	-6	2	6	S	*	34	?	-	
Wisby ...	29.69	30	ESE	4	o	29.79	+ .03	23	22	-5	2	6	S	*	36	?	0.20	
Bodö ...	29.99	23	?	2	o	30.32	+ .54	17	14	-8	E	4	b	2	27	14	-	
Christiansund...	29.87	33	SW	2	bc	30.09	+ .38	28	26	-1	E	1	b	3	36	25	0.12	
Skudesnaes ...	29.88	36	NW	7	o	30.04	+ .50	35	33	-1	NW	4	o	3	?	32	-	
Christiania Fjord	29.78	32	NW	2	bc	30.03	+ .57	26	25	-1	NE	5	S	2	34	23	-	
(Færdar)																		
Skagen (The Scaw)	29.74	34	N	4	c	29.96	+ .45	28	27	-5	E	3	S	2	34	28	0.04	
Fanö ...	29.84	33	NW	5	c	29.91	+ .20	32	32	-5	NW	2	c	*	41	32	0.28	
BRITISH ISLANDS.																		
Sumburgh Head	30.08	34	NW	5	c	30.24	+ .41	34	32	-4	NW	4	o	4	38	33	-	
Stornoway ...	30.30	44	NW	2	o	30.36	+ .22	41	41	-4	E	2	r	3	46	?	0.02	
Wick ...	30.23	36	NW	5	o	30.31	+ .31	38	37	-4	N	3	o	3	42	35	-	
Nairn ...	30.27	42	WNW	3	c	30.35	+ .29	41	40	-4	WNW	1	o	1	47	37	-	
Aberdeen...	30.23	38	NW	6	cq	30.35	+ .38	38	36	-8	NW	2	c	4	46	37	-	
Leith ...	30.22	45	W	1	c	30.36	+ .29	40	38	-7	W	1	f	*	58	35	-	
Shields ...	30.23	42	N	2	b	30.34	+ .30	36	35	-9	W	1	c	2	56	35	-	
Spurn Head ...	30.17	42	N	4	bc	30.31	+ .26	39	37	-5	WNW	5	o	4	49	37	-	
York ...	30.17	46	NNE	2	c	30.39	+ .27	39	37	-8	NW	1	b	*	56	34	-	
Loughborough	30.22	49	WNW	2	bc	30.38	+ .23	40	38	-8	NW	1	cm	*	54	39	0.01	
Ardrrossan ...	30.28	46	WNW	4	b	30.37	+ .22	46	45	-1	NW	3	o	2	50	41	-	
Malin Head ...	30.37	46	NW	3	om	30.41	+ .16	47	47	+1	NW	3	of	3	48	44	-	
Mullaghmore ...	30.44	47	NW	4	c	30.49	+ .14	47	47	0	W	4	om	2	51	45	0.02	
Belmullet ...	30.46	49	W	2	of	30.51	+ .12	47	47	-1	WNW	2	o	*	50	46	0.02	
Donaghadee ...	30.34	48	N	4	b	30.42	+ .18	45	45	-3	N	3	c	1	51	45	-	
GERMANY.																		
Barrow-in-Furness	30.25	45	N	4	b	30.37	+ .19	39	38	-6	NW	1	bc	*	50	38	-	
Liverpool (Bidston)	30.28	44	WNW	4	bc	30.40	+ .18	42	41	-3	WNW	3	b	3	49	38	0.01	
Holyhead ...	30.35	46	NW	2	b	30.45	+ .18	47	46	+2	NW	2	bcw	2	50	43	-	
Parsonstown ...	30.42	51	NW	2	b	30.49	+ .12	46	45	+1	WNW	1	o	*	58	41	-	
Valencia ...	30.48	50	NW	3	0.2m	30.53	+ .08	49	46	-2	N	1	o	2	62	45	0.01	
Roche's Point...	30.39	52	NW	4	b	30.47	+ .11	48	45	-2	WNW	3	b	3	57	45	-	
Pembroke ...	30.35	46	NW	3	b	30.44	+ .12	45	43	-2	N	3	b	1	51	43	-	
Scilly ...	30.38	49	NW	4	bc	30.44	+ .06	48	47	-1	NNE	4	b	4	51	42	0.01	
Prawle Point ...	30.29	50	NW	3	b	30.42	+ .08	44	42	-2	N	2	c	0	59	39	-	
Jersey ...	30.28	49	W	3	bc	30.37	+ .03	45	43	-1	NNE	3	bcw	3	52	44	-	
Hurst Castle ...	30.25	49	NE	2	bc	30.39	+ .12	44	43	+1	NNE	2	m	1	57	41	-	
Dungoness ...	30.16	50	WNW	3	o	30.31	+ .10	37	36	-5	N	3	c	1	54	33	-	
London ...	30.22	50	NW	2	bc	30.36	+ .16	41	38	0	WNW	1	og	*	52	39	-	
Oxford ...	30.27	45	NW	4	b	30.39	+ .17	41	39	-1	N	1	c	*	53	40	-	
Cambridge ...	30.20	48	NW	1	c	30.37	+ .22	40	38	-6	N	1	o	*	56	34	-	
Yarmouth ...	30.13	46	N	3	bc	30.28	+ .22	38	37	-7	WNW	4	cq	4	51	35	0.02	
Cuxhaven ...	29.73	37	WNW	6	r	29.92	+ .03	36	35	-1	WNW	5	b	*	40	35	0.20	
Berlin ...	29.76	37	SW	4	r	29.84	- .25	33	32	0	NW	5	o	*	41	32	0.28	
Wiesbaden ...	*	*	*	*	*	30.08	- .10	40	38	+8	NW	2	o	*	46	?	0.04	
Manich ...	30.10	31	W	4	o	30.04	- .17	35	34	+4	W	5	S	*	37	30	0.04	
FRANCE & NETHERLANDS.																		
The Helder ...	30.05	40	NW	3	c	30.15	+ .15	38	35	-3	WNW	3	c	3	43	36	0.12	
Brussels 9 a.m.	*	*	*	*	*	30.24	+ .04	37	36	-3	WNW	3	o	*	47	37	0.04	
Cape Gris Nez...	?	47	NW	2	m	?	?	39	36	-2	N	5	o	5	48	39	-	
Paris ...	30.20	33	WNW	2	bc	30.28	- .02	39	34	+7	N	3	bc	*	55	?	-	
Brest ...	? 30.38	51	N	3	o	30.41	- .00	44	43	-4	W	0	b	1	52	39	-	
Lorient ...	30.32	49	W	3	o	30.33	- .04	44	43	0	NNE	3	o	2	52	41	-	
Rochefort ...	30.32	48	NW	3	c	30.30	- .04	46	45	+9	NNE	4	o	2	52	?	-	
Belfort ...																		
Lyons ...	30.26	39	NE	1	b	30.18	- .05	37	34	+3	WNW	2	o	*	44	34	-	
Nice ...	30.01	49	W	0	b	29.87	- .12	44	41	+2	ESE	3	b	1	59	41	-	
Perpignan ...	30.16	45	NW	4	bc	30.06	- .10	46	39	+5	NW	4	b	*	52	?	-	
Biarritz ...	? 30.23	48	NNE	4	b	? 30.28	- .00	44	42	+6	S	2	o	1	50	?	-	
PENIN-SULA.																		
Coronna ...	*	*	*	*	*													
Lisbon ...	30.14	53	N	4	b	30.20	- .06	45	39	+2	NNE	4	b	5	59	43	-	

For Explanation of Columns, see p. 4.

† Received too late for insertion in *Chart* on p. 4.

WEATHER CHARTS

for 8 a.m. on Thursday, 14th March 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.

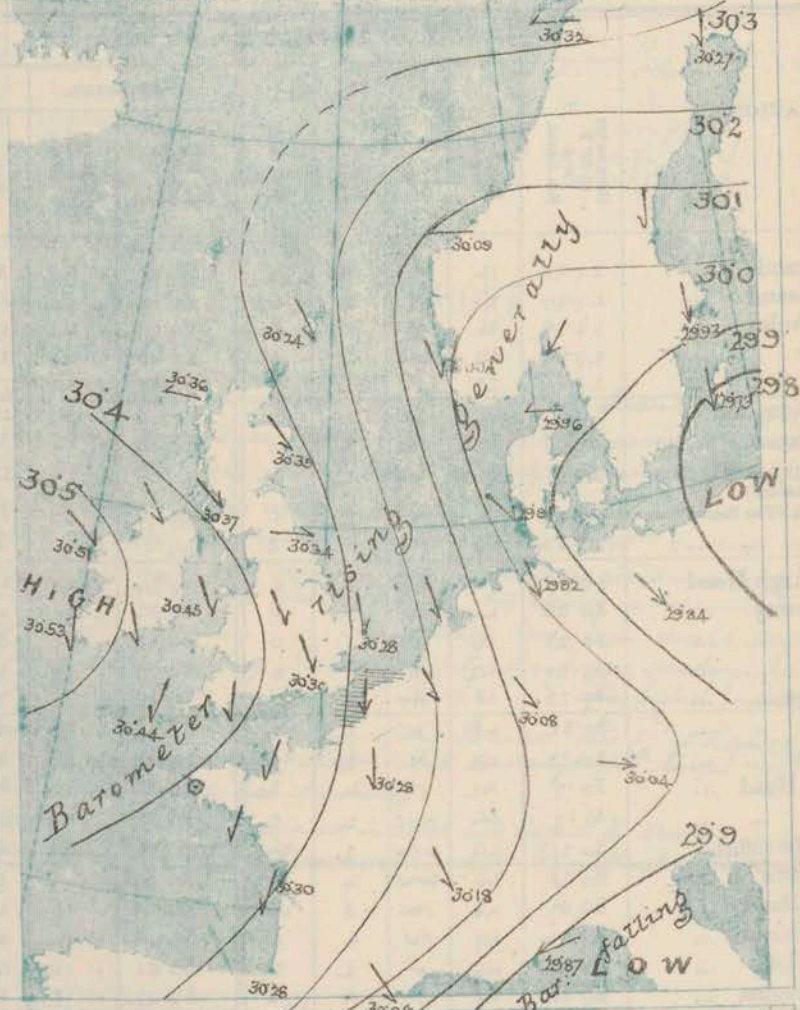
Sea Disturbance — where considerable is shown thus:
 — Rough — High

MEAN HEIGHT of the BAROMETER

at 8 a.m. for the month of March

During the 15 Years 1871 — 1885.

STATIONS.	MEAN READINGS
Sumburgh Head	29.751
Stornoway	29.779
Wick	29.815
Nairn	29.830
Aberdeen	29.862
Leith	29.896
Shields	29.925
York	29.948
Loughborough	29.876
Ardrossan	29.892
Donaghadee	29.919
Holyhead	29.925
Liverpool	29.940
Parsonstown	29.938
Valencia	29.941
Roche's Point	29.944
Pembroke	29.966
Scilly	29.971
Jersey	29.966
Hurst Castle	29.955
Dover	29.987
LONDON	29.966
Oxford	29.967
Cambridge	29.938
Yarmouth	29.938



TEMPERATURE, & WEATHER at 8 A.M., with RAINFALL in PAST 24 HOURS.

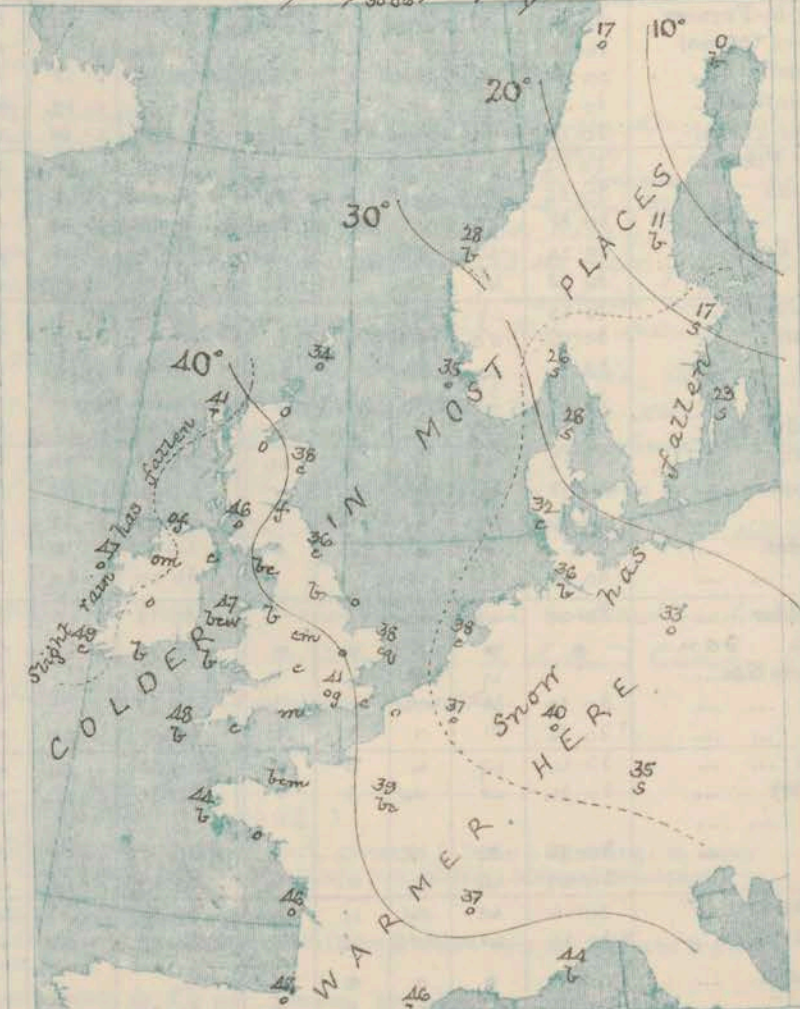
Temperature — Isotherms are drawn for each 1° change since previous morning are stated in words.
Weather — is shown by Letters of the Beaufort Scale.
Rainfall — A dotted line separates the districts in which rain has fallen from those where there has been none. Falls of 0.5 in. or more, are quoted in figures.

MEANS OF TEMPERATURE IN SHADE. AND RAINFALL.

for the month of March.

STATIONS.	TEMPERATURE.				RAINFALL. (Inches.)
	Daily Max.	Daily Min.	at 8 a.m.	at 8 a.m.	
			Dry	Wet	
Sumburgh Head	42.6	34.0	38.5	37.1	2.92
Stornoway	44.9	34.4	39.2	38.0	3.87
Wick	44.7	33.9	39.1	37.2	1.97
Nairn	45.6	34.2	38.2	36.3	1.72
Aberdeen	45.4	34.7	38.9	36.8	2.24
Leith	48.2	34.6	39.7	37.9	1.86
Shields	45.0	35.4	39.6	38.0	1.60
York	48.9	33.7	38.6	37.1	1.63
Loughborough	49.8	34.3	39.5	37.7	1.47
Ardrossan	48.8	36.6	40.5	38.7	2.59
Donaghadee	47.3	37.1	41.0	39.7	1.99
Holyhead	47.6	39.2	42.5	41.0	2.21
Liverpool	47.3	37.1	40.8	38.7	1.69
Parsonstown	50.1	35.5	41.2	39.6	2.36
Valencia	51.6	40.6	45.4	43.4	4.24
Roche's Point	50.2	40.0	43.8	42.1	3.71
Pembroke	47.1	39.5	42.6	40.8	2.45
Scilly	49.9	45.0	46.5	44.7	2.88
Jersey	49.9	40.5	44.7	42.7	2.32
Hurst Castle	48.3	37.7	41.6	40.7	1.80
Dover	46.9	37.8	41.6	39.9	1.86
LONDON	50.6	35.8	40.6	38.7	1.43
Oxford	49.5	35.2	39.4	37.9	1.52
Cambridge	50.6	33.3	39.2	37.7	1.33
Yarmouth	45.7	35.8	40.8	39.1	1.77

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



GENERAL SITUATION AT 8 A.M.

PRESSURE

Highest, 30.3 ins. to 30.5 ins. over the British Islands generally.
 Lowest, 29.8 ins. and less, over the Baltic Provinces; 29.9 ins. over Denmark.
 Gradient slight in our Islands, moderate elsewhere, and favourable for N. winds.
 Barometer rising, except perhaps on our extreme northwestern coasts, where the rise seems to have terminated.

TEMPERATURE

Highest, 43° at Valencia, 48° at Rockham and Scilly, 47° at Malin Head and Holyhead, 46° at Rochefort, and 45° at Birmmgham, Jersey, Brest, and London.
 Lowest, 0° F. at Haparanda, 11° at Helsingfors, 17° at Rode and Stockholm, 28° at the Cape, 33° at Berlin, 38° at Paris and York, and 44° at London.
 It has fallen somewhat at our northern stations, and rapidly in England and London since yesterday.

WIND

Light to moderate from the NWnd at our northern and eastern stations, from N. or NE. in the south and over France.
 To the eastward of the North Sea the wind is fresher, and in the south of Sweden it is strong from N.
 At Stromway, the wind has veered to E.

WEATHER

Bell at our northwestern stations, with rain at Stromway.
 Fair or fine in the southwest, south and east, and over the northern half of Scandinavia.
 Snow is falling in some parts of Norway and Sweden. Very slight showers fell at a few of our stations yesterday.

SEA

Moderate in the north and east, as well as at Scilly, slight or smooth elsewhere.

PROBABLE CHANGES IN SYSTEM NOW PREVALENT

Fair weather is still probable over England, but the changes in the northwest point to the probable advance of a new disturbance towards Scotland from the Atlantic.

FORECASTS

For the 24 hours ending at NOON on 15TH MARCH 1889.

DISTRICTS.

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

FORECASTS.

Wind varying greatly; weather changeable and showery—rain or sleet.
 Wind backing to NW. and W. slowly, light; fair, hazy locally.



DISTRICTS.

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

FORECASTS.

NW^{ly} to SW^{ly} breezes moderate; fair to showery.
 Same as Nos 2 to 5.
 Same as N^o 6 and 7.
 No NE 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 ...	29.76	40	36	NW 7	b	4	Holyhead ...	30.32	49	47	NW 1	b	2
Sumburgh Head ...	30.01	35	33	NW 5	c	5	Valencia ...	30.47	52	51	NW 3	om	3
Stornoway ...	30.26	46	44	NW 4	c	3	Scilly ...	30.36	51	50	NW 5	of	5
Aberdeen ...	30.14	42	38	NW 8	bc q	5	Jersey ...	30.31	50	48	NW 3	c	3
Shields ...	30.11	55	48	N 3	c	3	Dungeness ...	30.13	54	50	NW 4	c	3
Ardrossan ...	30.25	51	48	W 4	c	3	London ...	30.18	52	47	NW 5	c	*
Malin Head ...	30.34	48	47	NW 3	bc	3	Yarmouth ...	30.09	51	46	NW 4	bc	3
Mullaghmore ...	30.41	51	48	NW 5	c	4	Rochefort ...	30.35	50	44	NW 2	c	2
Belmullet ...	30.45	50	48	NW 2	o	*							

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 to the southward of the British Isles, and high, 30.2 ins: and upwards, over the southern parts of Central Russia. The lowest readings were found in two depressions, — one, a well defined and somewhat deep disturbance, lying over the south of Norway, the other a shallower system lying over Finland. The wind was NW² in our Islands and strong to gale in force in the East of Scotland, but SW² over the Netherlands, North Germany and Denmark, and E² in Norway. Over Finland a cyclonic circulation of light winds was shown round the depression existing in that region, while over Southern Europe the wind was chiefly NE². The weather was fine in the East of Great Britain, the west of Norway and the south of Sweden, as well as in Spain and the south of France. Elsewhere, however, the sky was cloudy or overcast, with rain in the Shetlands, Denmark, and the south of Norway, as well as in Algeria, and snow over Northern Russia. Temperature had risen in the west of our Islands, the west and north of France and the south of Russia, but fallen in most other localities; readings ranged from a little above 50° in the south of Ireland and above 55° over the central and southern parts of the Mediterranean to several degrees below the freezing point over Northern and Central Russia. The highest individual readings were 60° at Malta, 59° at Brindisi, 58° at Palma and Gax, 55° at Naples and Palermo, 54° at Laiballe and Tunis, and 53° at Oran and Algiers; the lowest were 11° at Khar'kov, 13° at Moscow, 17° at Har'gö, 19° at Kuopio, 20° at Waparsanda, 23° at Ulleaborg, St. Petersburg and Stockholm, 24° at Helsinki, and 26° at Kiew and Nicolaiëff.

In the course of the day the depression over the south of Norway travelled southwards to the Baltic, and the winds on our northern coasts moderated in force. No other change of importance 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).

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

DAILY WEATHER REPORT.

for Friday, 15 March, 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.		Amount of Rainfall.	
				Dirco.	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.	Dirco.	Force. (0 to 12.)			Max.	Min.		
SCANDINAVIA.	Haparanda ..	30.49	-3	Z	0	b	30.33	+0.06	0	-1	0	S	2	c	*	14	-4	-	
	Hernösand ...	30.58	3	Z	0	b	30.61	+0.51	-5	-5	-16	Z	0	b	*	19	0	-	
	Stockholm ...	30.32	12	NNE	4	b	30.49	+0.56	9	8	-8	N	2	b	*	?	?	-	
	Wisby ...	30.13	18	NE	8	S	30.34	+0.55	14	12	-9	NNE	6	b	*	28	14	0.08	
	Bodö ...	30.43	16	E	2	b	30.10	-0.22	18	17	+1	SE	4	S	2	19	12	-	
	Christiansund...	30.36	29	ESE	1	b	30.30	+0.21	33	30	+5	SSW	3	b	3	34	27	-	
	Skudesnaes ...	30.39	35	S	7	b	30.60	+0.56	28	26	-7	SSE	8	S	5	?	27	-	
	Christiania Fjord (Fæder)	30.41	25	NE	5	b	30.63	+0.60	16	13	-10	NNE	2	b	1	28	12	-	
	Skagen (The Scaw)	30.38	23	NE	6	b	30.59	+0.63	17	14	-11	NE	3	b	2	30	16	-	
	Fanö ...	30.32	24	ESE	6	b	30.53	+0.62	20	18	-12	ESE	5	b	*	37	18	-	
BRITISH ISLANDS.	Sumburgh Head	30.36	35	Z	0	b	30.34	+0.10	37	35	+3	SSW	1	r	3	39	34	0.01	
	Sornoway ...	30.34	42	SE	1	0	30.86	-0.00	46	46	+5	SW	2	0	2	46	39	0.05	
	Wick ...	30.40	40	N	2	b	30.36	+0.05	39	38	+1	SW	2	d	2	42	36	0.05	
	Nairn ...	30.38	42	Z	0	0	30.40	+0.05	41	40	0	WSW	1	0	1	43	37	-	
	Aberdeen...	30.42	38	NE	2	0	30.48	+0.13	38	35	0	S	3	0	3	42	35	-	
	Leith ...	30.38	41	E	1	0	30.52	+0.16	38	37	-2	E	1	orm	*	42	36	0.03	
	Shields ...	30.39	40	N	2	p	30.55	+0.21	36	34	0	SSW	1	om	3	44	33	-	
	Spurn Head ...	30.34	39	N	5	r	30.56	+0.25	37	34	-2	ESE	3	0	3	42	35	0.01	
	York ...	30.34	40	NNE	1	r	30.53	+0.20	36	34	-3	E	1	0	*	46	30	0.01	
	Loughborough	30.36	44	NE	2	r	30.58	+0.20	35	34	-5	Z	0	c	*	52	33	0.01	
GERMANY.	Ardrossan ...	30.36	47	W	2	0	30.51	+0.14	41	41	-5	SSW	2	dm	2	49	38	0.02	
	Malin Head ...	30.42	46	W	3	0	30.47	+0.06	45	45	-2	W	1	of	1	48	45	0.05	
	Mullaghmore ...	30.48	47	W	4	c	30.51	+0.02	46	46	-1	WSW	4	od	2	51	45	0.02	
	Belmullet ...	30.50	49	W	3	0	30.52	+0.01	46	46	-1	SSW	1	c	*	50	42	0.08	
	Donaghadee ...	30.42	47	NNE	3	c	30.52	+0.10	41	41	-4	SSW	3	m	1	50	41	0.05	
	Barrow-in-Furness	30.34	46	W	2	0	30.52	+0.15	38	36	-1	ESE	3	c	*	46	37	-	
	Liverpool (Bidston)	30.38	43	W	2	r	30.55	+0.15	38	35	-4	SE	2	0	2	46	37	0.03	
	Holyhead ...	30.41	47	W	3	0	30.51	+0.06	42	42	-5	SW	1	mg	1	53	40	0.01	
	Parsonstown ...	30.47	51	W	2	0	30.54	+0.05	45	44	-1	Z	0	0	*	56	30	0.01	
	Valencia ...	30.51	49	W	2	b	30.56	+0.03	42	41	-1	Z	0	b	1	55	37	-	
FRANCE & NETHERLANDS.	Roche's Point...	30.47	52	W	3	b	30.52	+0.05	47	45	-1	N	1	c	3	56	44	-	
	Pembroke ...	30.42	47	W	2	c	30.52	+0.08	40	39	-5	SE	5	od	3	51	40	-	
	Scilly ...	30.43	49	W	4	b	30.51	+0.07	49	48	+1	NE	3	0	3	50	47	-	
	Prawle Point ...	30.37	47	N	2	b	30.52	+0.10	39	37	-5	NE	3	og	2	52	37	0.04	
	Jersey ...	30.37	47	W	3	c	30.48	+0.11	42	36	-3	E	4	b	3	49	40	-	
	Hurst Castle ...	30.34	49	NE	2	c	30.53	+0.14	37	36	-7	NE	4	b	1	51	35	-	
	Dunooness ...	30.29	43	N	4	c	30.46	+0.15	37	35	0	ESE	5	c	4	46	35	-	
	London ...	30.32	45	NE	1	0	30.54	+0.18	35	32	-6	E	3	c	*	49	32	-	
	Oxford ...	30.38	42	NE	1	r	30.57	+0.18	37	35	-4	NE	1	b	*	51	33	0.02	
	Cambridge ...	30.37	40	N	2	0	30.58	+0.21	35	32	-5	NE	1	b	*	48	29	-	
PENINSULA.	Yarmouth ...	30.28	39	N	4	c	30.54	+0.26	33	31	-5	ESE	5	cy	5	41	32	-	
	Cuxhaven ...	30.12	32	NE	6	b	30.45	+0.53	23	?	-13	NE	5	b	*	?	21	-	
	Berlin ...	29.99	27	N	5	S	30.23	+0.39	22	21	-11	W	5	S	*	37	21	0.02	
	Wiesbaden ...	*	*	*	*	*	30.28	+0.20	27	26	-13	NNE	4	b	*	41	25	0.04	
	Munich ...	29.94	31	W	4	0	30.05	+0.01	21	19	-14	W	5	0	*	39	18	-	
	The Helder ...	30.23	36	NNE	3	b	30.50	+0.35	30	28	-8	NE	3	c	3	39	30	-	
	Brussels 9 a.m.	*	*	*	*	*	30.47	+0.23	28	26	-9	NNE	2	0	*	41	27	-	
	Cape Gris Nez...	?	39	N	5	0	?	?	35	30	-14	ESE	5	c	5	43	34	-	
	Paris ...	30.27	41	N	3	0	30.38	+0.10	32	30	-7	N	3	b	*	46	31	-	
	Brest ...	30.41	49	NNE	3	b	30.42	+0.01	47	46	+3	Z	0	0	1	52	41	-	

For Explanation of Columns, see p. 4.

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

1889

Explanation of Map

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

② = dextral column

Sea Disturbance—where considerable, is shown thus:

 = Rough = High

at 6 a. m. for the month of March

During the 16 Years 1871 — 1886

A hand-drawn weather map of the North Atlantic Ocean, showing isobars, wind directions, and weather conditions. The map is oriented with North at the top. Key features include:

- Isobars:** Labeled with values such as 30.1, 30.2, 30.3, 30.4, 30.5, 30.6, 30.7, 30.8, 30.9, 31.0, 31.1, 31.2, 31.3, 31.4, 31.5, 31.6, 31.7, 31.8, 31.9, 32.0, 32.1, 32.2, 32.3, 32.4, 32.5, 32.6, 32.7, 32.8, 32.9, 33.0, 33.1, 33.2, 33.3, 33.4, 33.5, 33.6, 33.7, 33.8, 33.9, 34.0, 34.1, 34.2, 34.3, 34.4, 34.5, 34.6, 34.7, 34.8, 34.9, 35.0, 35.1, 35.2, 35.3, 35.4, 35.5, 35.6, 35.7, 35.8, 35.9, 36.0, 36.1, 36.2, 36.3, 36.4, 36.5, 36.6, 36.7, 36.8, 36.9, 37.0, 37.1, 37.2, 37.3, 37.4, 37.5, 37.6, 37.7, 37.8, 37.9, 38.0, 38.1, 38.2, 38.3, 38.4, 38.5, 38.6, 38.7, 38.8, 38.9, 39.0, 39.1, 39.2, 39.3, 39.4, 39.5, 39.6, 39.7, 39.8, 39.9, 40.0, 40.1, 40.2, 40.3, 40.4, 40.5, 40.6, 40.7, 40.8, 40.9, 41.0, 41.1, 41.2, 41.3, 41.4, 41.5, 41.6, 41.7, 41.8, 41.9, 42.0, 42.1, 42.2, 42.3, 42.4, 42.5, 42.6, 42.7, 42.8, 42.9, 43.0, 43.1, 43.2, 43.3, 43.4, 43.5, 43.6, 43.7, 43.8, 43.9, 44.0, 44.1, 44.2, 44.3, 44.4, 44.5, 44.6, 44.7, 44.8, 44.9, 45.0, 45.1, 45.2, 45.3, 45.4, 45.5, 45.6, 45.7, 45.8, 45.9, 46.0, 46.1, 46.2, 46.3, 46.4, 46.5, 46.6, 46.7, 46.8, 46.9, 47.0, 47.1, 47.2, 47.3, 47.4, 47.5, 47.6, 47.7, 47.8, 47.9, 48.0, 48.1, 48.2, 48.3, 48.4, 48.5, 48.6, 48.7, 48.8, 48.9, 49.0, 49.1, 49.2, 49.3, 49.4, 49.5, 49.6, 49.7, 49.8, 49.9, 50.0, 50.1, 50.2, 50.3, 50.4, 50.5, 50.6, 50.7, 50.8, 50.9, 51.0, 51.1, 51.2, 51.3, 51.4, 51.5, 51.6, 51.7, 51.8, 51.9, 52.0, 52.1, 52.2, 52.3, 52.4, 52.5, 52.6, 52.7, 52.8, 52.9, 53.0, 53.1, 53.2, 53.3, 53.4, 53.5, 53.6, 53.7, 53.8, 53.9, 54.0, 54.1, 54.2, 54.3, 54.4, 54.5, 54.6, 54.7, 54.8, 54.9, 55.0, 55.1, 55.2, 55.3, 55.4, 55.5, 55.6, 55.7, 55.8, 55.9, 56.0, 56.1, 56.2, 56.3, 56.4, 56.5, 56.6, 56.7, 56.8, 56.9, 57.0, 57.1, 57.2, 57.3, 57.4, 57.5, 57.6, 57.7, 57.8, 57.9, 58.0, 58.1, 58.2, 58.3, 58.4, 58.5, 58.6, 58.7, 58.8, 58.9, 59.0, 59.1, 59.2, 59.3, 59.4, 59.5, 59.6, 59.7, 59.8, 59.9, 60.0, 60.1, 60.2, 60.3, 60.4, 60.5, 60.6, 60.7, 60.8, 60.9, 61.0, 61.1, 61.2, 61.3, 61.4, 61.5, 61.6, 61.7, 61.8, 61.9, 62.0, 62.1, 62.2, 62.3, 62.4, 62.5, 62.6, 62.7, 62.8, 62.9, 63.0, 63.1, 63.2, 63.3, 63.4, 63.5, 63.6, 63.7, 63.8, 63.9, 64.0, 64.1, 64.2, 64.3, 64.4, 64.5, 64.6, 64.7, 64.8, 64.9, 65.0, 65.1, 65.2, 65.3, 65.4, 65.5, 65.6, 65.7, 65.8, 65.9, 66.0, 66.1, 66.2, 66.3, 66.4, 66.5, 66.6, 66.7, 66.8, 66.9, 67.0, 67.1, 67.2, 67.3, 67.4, 67.5, 67.6, 67.7, 67.8, 67.9, 68.0, 68.1, 68.2, 68.3, 68.4, 68.5, 68.6, 68.7, 68.8, 68.9, 69.0, 69.1, 69.2, 69.3, 69.4, 69.5, 69.6, 69.7, 69.8, 69.9, 70.0, 70.1, 70.2, 70.3, 70.4, 70.5, 70.6, 70.7, 70.8, 70.9, 71.0, 71.1, 71.2, 71.3, 71.4, 71.5, 71.6, 71.7, 71.8, 71.9, 72.0, 72.1, 72.2, 72.3, 72.4, 72.5, 72.6, 72.7, 72.8, 72.9, 73.0, 73.1, 73.2, 73.3, 73.4, 73.5, 73.6, 73.7, 73.8, 73.9, 74.0, 74.1, 74.2, 74.3, 74.4, 74.5, 74.6, 74.7, 74.8, 74.9, 75.0, 75.1, 75.2, 75.3, 75.4, 75.5, 75.6, 75.7, 75.8, 75.9, 76.0, 76.1, 76.2, 76.3, 76.4, 76.5, 76.6, 76.7, 76.8, 76.9, 77.0, 77.1, 77.2, 77.3, 77.4, 77.5, 77.6, 77.7, 77.8, 77.9, 78.0, 78.1, 78.2, 78.3, 78.4, 78.5, 78.6, 78.7, 78.8, 78.9, 79.0, 79.1, 79.2, 79.3, 79.4, 79.5, 79.6, 79.7, 79.8, 79.9, 80.0, 80.1, 80.2, 80.3, 80.4, 80.5, 80.6, 80.7, 80.8, 80.9, 81.0, 81.1, 81.2, 81.3, 81.4, 81.5, 81.6, 81.7, 81.8, 81.9, 82.0, 82.1, 82.2, 82.3, 82.4, 82.5, 82.6, 82.7, 82.8, 82.9, 83.0, 83.1, 83.2, 83.3, 83.4, 83.5, 83.6, 83.7, 83.8, 83.9, 84.0, 84.1, 84.2, 84.3, 84.4, 84.5, 84.6, 84.7, 84.8, 84.9, 85.0, 85.1, 85.2, 85.3, 85.4, 85.5, 85.6, 85.7, 85.8, 85.9, 86.0, 86.1, 86.2, 86.3, 86.4, 86.5, 86.6, 86.7, 86.8, 86.9, 87.0, 87.1, 87.2, 87.3, 87.4, 87.5, 87.6, 87.7, 87.8, 87.9, 88.0, 88.1, 88.2, 88.3, 88.4, 88.5, 88.6, 88.7, 88.8, 88.9, 89.0, 89.1, 89.2, 89.3, 89.4, 89.5, 89.6, 89.7, 89.8, 89.9, 90.0, 90.1, 90.2, 90.3, 90.4, 90.5, 90.6, 90.7, 90.8, 90.9, 91.0, 91.1, 91.2, 91.3, 91.4, 91.5, 91.6, 91.7, 91.8, 91.9, 92.0, 92.1, 92.2, 92.3, 92.4, 92.5, 92.6, 92.7, 92.8, 92.9, 93.0, 93.1, 93.2, 93.3, 93.4, 93.5, 93.6, 93.7, 93.8, 93.9, 94.0, 94.1, 94.2, 94.3, 94.4, 94.5, 94.6, 94.7, 94.8, 94.9, 95.0, 95.1, 95.2, 95.3, 95.4, 95.5, 95.6, 95.7, 95.8, 95.9, 96.0, 96.1, 96.2, 96.3, 96.4, 96.5, 96.6, 96.7, 96.8,

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

[illegible]

NOTE - The Temperature means are for the 15 years 1871-85, the Rainfall means are mainly those for the 25 years 1866-85

GENERAL SITUATION AT 8 A.M.

PRESSURE	Highest, 30.40 in. to 30.65 in. in a high-pressure band over our islands, the North Sea, and greater part of Scandinavia. lowest, 30.1 in. and less, off the northwest of Norway, — 29.6 in. and less, in a depression over the northern part of the Mediterranean. Gradient slight within the high-pressure area, steep over Switzerland and the Alps. Barometer rising in the east, falling in the extreme south, and also in the extreme north.
TEMPERATURE	Highest, 45° at Sicily and Lisbon, 44° at Nice, Paris, and Rochester, 46° at Birmmham and Norway. lowest, —5° F. at Helsingfors, 0° at Haparanda, 3° at Stockholm, 14° at Mitz, 17° at the Cape, 21° at Munich, 22° at Berlin, and 32° at Paris and Lyons. It has fallen fast over Germany and the Baltic since yesterday, risen slightly in Scotland and the west of Norway.
WIND	Light from the SW rd on our northern and northern coasts and from SE. at odds. NE ^{er} over the Baltic, the southern part of the North Sea and England, the Channel and west of France. A strong "Mistral" seems to be blowing in the south of France.
WEATHER	Dull and gloomy at the western and northern stations, with slight rain in several places. Fair and dry generally in the south and east, and at many stations bright. The rainfall in the west and north, though general, has been very slight.
SEA	Very little disturbed.

PROBABLE CHANGES IN SYSTEM NOW PREVALENT

The SWrd wind current in the north, though light, appears to be spreading southwards very slowly.

FORECASTS

for the 24 hours ending at NOON on 16th MARCH 1889.

DISTRICTS.

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

FORECASTS.

SWrd and Wrd breezes, light or moderate; some rain at times.

NE^{er} breezes, light or moderate; dull at times, fair, cold.

DISTRICTS.

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

FORECASTS.


Same as No 0 to 2


Varying E^{er} breezes, dull, weather damp and uncertain.

S^{er} breezes, light; 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 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.
Skudesnaes ...	30.06	42	34	E 2	b	3	Holyhead ...	30.42	48	47	W 1	c	1
Sumburgh Head ...	30.32	38	35	N 1	b	4	Valencia ...	30.52	54	51	N 2	cm	3
Stornoway ...	30.34	42	42	SE 2	f	3	Scilly ...	30.43	49	47	N 5	bc	4
Aberdeen ...	30.37	41	37	N 2	c	3	Jersey ...	30.38	48	44	N 3	o	3
Shields ...	30.35	42	39	N 2	o	4	Dungeness ...	30.30	43	39	NHE 5	c	4
Ardrossan ...	30.36	48	47	WNW 2	o	1	London ...	30.34	47	40	NW 3	bcm	*
Malin Head ...	30.42	48	47	NW 3	c	2	Yarmouth ...	30.27	41	39	NW 4	cq	4
Mullaghmore ...	30.49	50	49	WNW 5	c	3	Rocheport ...	30.31	58	52	NE 3	bc	2
Belmullet ...	30.51	50	49	WNW 2	o	*							

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

Continental Information not yet received.

EXPLANATION OF COLUMNS GIVEN ON PAGE 1.

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

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

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

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

DAILY WEATHER REPORT.

Saturday, 16th March,

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.		
	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° 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 ..	29.72	13	SW	6	0	29.72	-1.21	22	22	+ 22	SSW	4	S	*	?	-13	0.32		
Hernösand ...	30.03	19	S	8	0	29.46	-1.15	29	27	+ 34	SW	2	O	*	?	-11	0.16		
Stockholm ...	30.41	6	W	0	6	29.82	-0.67	20	19	+ 11	SW	2	S	*	?	5	-		
Wisby ...	30.40	10	NE	4	6	30.07	- 27	21	19	+ 7	S	6	O	*	2.1	9	-		
Bodö ...	29.48	37	SW	6	7	29.37	- 73	29	26	+ 11	W	4	C	3	37	18	-		
Christiansund...	29.86	39	SW	8	7	29.58	- 72	40	39	+ 7	WSW	8	T	5	?	?	0.47		
Skudesnaes ...	29.98	34	SSW	7	0	30.01	- 59	39	39	+ 11	WSW	2	T	4	?	?	0.63		
Christiania Fjord	30.34	28	WSW	5	0	29.87	- 76	38	32	+ 17	SW	6	O	4	?	?	-		
(Færdet)																			
Skagen (The Scaw)	30.39	27	WNW	4	0	29.99	- 60	30	29	+ 13	W	5	O	3	32	16	-		
Fanø ...	30.53	23	N	2	6	30.28	- 25	32	30	+ 12	W	4	C	*	32	19	-		
BRITISH ISLANDS.																			
Sumburgh Head	30.17	44	W	4	m	29.88	- 46	45	45	+ 8	W	4	m	4	46	37	0.12		
Stornoway ...	30.33	48	W	4	bc	30.18	- 18	46	45	0	W	4	O	4	51	43	0.03		
Wick ...	30.29	46	W	2	0	30.07	- 29	47	46	+ 8	W	6	O	3	50	38	0.08		
Nairn ...	30.33	48	W	1	bc	30.18	- 22	48	46	+ 7	WNW	3	O	2	53	39	-		
Aberdeen...	30.37	48	SW	1	cm	30.18	- 30	49	45	+ 11	W	2	bc	2	49	34	0.02		
Leith ...	30.45	41	SE	1	0	30.25	- 27	47	45	+ 9	WSW	4	C	*	47	37	0.02		
Shields ...	30.50	42	SE	0	odp	30.31	- 24	45	42	+ 9	W	2	C	2	45	34	0.02		
Spurn Head ...	30.56	36	SSW	3	6	30.36	- 20	41	40	+ 4	WSW	3	O	3	41	?	-		
York ...	30.57	40	S	2	0	30.33	- 20	44	42	+ 8	W	1	6	*	44	35	-		
Loughborough	30.59	39	E	1	6	30.44	- 14	40	39	+ 5	WSW	2	bc	*	48	34	-		
Ardrossan ...	30.48	43	SSW	4	om	30.31	- 20	46	45	+ 5	WSW	4	O	3	46	40	0.01		
Malin Head ...	30.49	45	W	3	0	30.37	- 10	45	45	0	W	4	od	3	48	43	0.01		
Mullaghmore ...	30.53	47	WNW	2	C	30.47	- 04	46	45	0	WSW	5	O	4	50	43	0.01		
Belmullet ...	30.55	46	W	2	C	30.49	- 03	47	47	+ 1	W	3	O	*	49	45	0.01		
Donaghadee ...	30.51	45	WSW	3	bc	30.42	- 10	43	42	+ 2	WSW	4	bc	2	47	40	-		
Barrow-in-Furness	30.52	42	S	2	0	30.40	- 12	43	42	+ 5	W	3	C	*	43	38	-		
Liverpool (Bidston)	30.57	41	W	1	0	30.45	- 10	43	42	+ 5	W	5	C	3	45	36	0.02		
Holyhead ...	30.56	41	SSW	4	mq	30.49	- 02	45	43	+ 3	WNW	3	C	3	46	40	-		
Peasehead ...	30.54	41	Z	0	6	30.53	- 01	44	42	- 1	W	0	O	*	52	41	-		
Valencia ...	30.58	49	W	2	0	30.56	- 06	46	44	?	W	1	ag	1	53	44	-		
Roche's Point...	30.54	48	ESE	1	C	30.56	+ 04	47	44	0	W	2	C	3	53	44	-		
Pembroke ...	30.57	41	SE	2	0	30.52	00	46	45	+ 6	WSW	3	om	3	46	40	0.01		
Scilly ...	30.54	45	ESE	3	0	30.55	+ 04	45	43	- 4	SSW	1	cp	2	49	42	-		
Prawle Point ...	30.60	38	ESE	2	6	30.57	+ 05	39	38	0	W	2	ag	1	43	32	-		
Jersey ...	30.57	41	ESE	4	6	30.59	+ 11	37	30	- 10	ESE	1	burn	1	47	29	-		
Hurst Castle ...	30.59	38	ESE	3	C	30.53	- 60	38	38	+ 1	WNW	2	C	1	45	37	-		
Dungeness ...	30.56	34	NE	4	bc	30.52	+ 06	31	29	- 6	N	3	C	1	38	24	-		
London ...	30.60	36	ESE	2	bc	30.49	- 05	34	32	- 1	W	1	O	*	40	27	-		
Oxford ...	30.61	35	ESE	2	6	30.49	- 08	37	35	0	WSW	3	O	*	44	32	-		
Cambridge ...	30.61	34	Z	0	6	30.45	- 13	37	33	+ 2	SW	1	O	*	41	25	-		
Yarmouth ...	30.59	34	NE	3	bc	30.43	- 11	34	32	+ 1	SW	3	Cm	3	36	29	-		
Cuxhaven ...	30.51	25	NE	4	6	30.43	- 02	26	26	+ 3	SW	2	m	*	27	?	-		
Berlin ...	30.40	22	N	6	S	30.42	+ 19	20	19	- 2	W	3	C	*	27	19	-		
Wiesbaden ...	*	*	*	*	*	30.49	+ 21	19	18	- 8	NE	2	6	*	28	16	-		
Munich ...	30.27	15	W	2	bc	30.34	+ 29	13	12	- 8	W	4	S	*	25	12	0.04		
FRANCE & NETHERLANDS.																			
The Helder ...	30.55	29	NE	1	6	30.44	- 06	32	30	+ 2	SW	2	C	2	32	25	-		
Brussels ...	*	*	*	*	*	30.52	+ 05	26	24	- 2	WNW	1	O	*	35	23	-		
Cape Gris Nez...	?	32	NE	4	6	?	?	30	29	- 5	S	2	C	2	37	28	-		
Paris ...	30.47	34	NE	5	6	30.55	+ 17	24	23	- 8	N	1	6	*	40	22	-		
Brest ...	30.55	45	E	4	6	30.61	+ 19	31	29	- 16	E	2	6	2	50	30	-		
Lorient ...	30.49	45	NE	4	6	30.55	+ 17	33	29	- 12	ESE	4	6	2	48	30	-		
Rochefort ...	30.43	44	NE	4	6	30.56	+ 20	30	27	- 13	NE	4	6	2	52	23	-		
Belfort ...	30.23	26	E	3	6	30.37	+ 35	19	18	- 11	E	4	6	*	31	14	-		
Lyons ...	30.24	29	N	6	6	30.37	+ 26	20	17	- 12	N	6	6	*	35	20	-		
Nice ...	29.67	39	SW	3	bc	29.89	+ 35	34	29	- 13	NE	3	6	5	48	28	0.04		
Perpignan ...	30.05	46	W	7	6	30.17	+ 13	32	27	- 10	W	7	6	*	50	31	-		
Biarritz ...	30.32	47	N	5	6	30.40	+ 10	30	27	- 12	E	4	6	2	48	27	-		
PENINSULAR.																			
Corunna ...	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	
Lisbon ...	30.17	56	N	4	6	30.26	+ 06	47	41	- 2	NE	5	6	2	64	46	-		

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 16th March 1889.

BAROMETER, WIND & SEA.

(Explanation of Map)

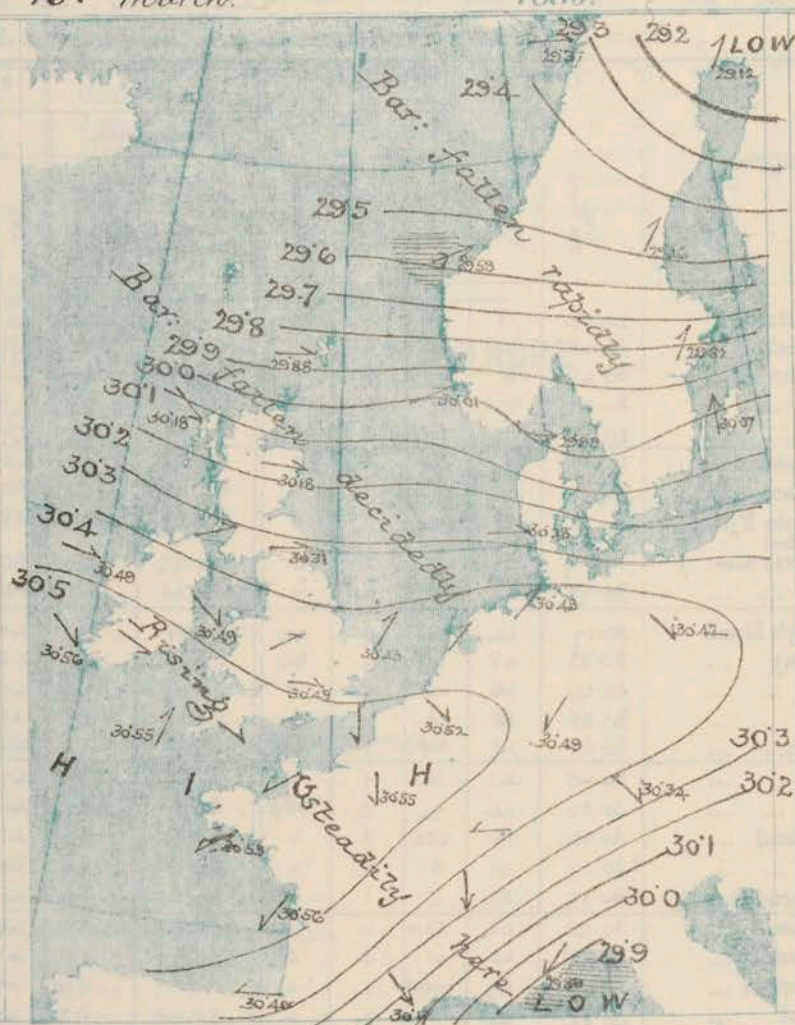
Barometer — Isobars are drawn for each tenth of an inch. Changes since previous morning are stated in words.
Wind — Arrows show the prevalent winds. They fly with the wind and their barbs and feathers refer to force thus —
 — force above 10; — force 8 to 10;
 — force 5 to 7; — force 1 to 4;
 — dead calm.

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

MEAN HEIGHT of the BAROMETER

at 6 a.m. for the month of March
 During the 15 Years 1871-1885.

STATIONS.	MEAN READINGS.
Sumburgh Head	29.751
Stornoway	29.779
Wick	29.797
Nairn	29.816
Aberdeen	29.830
Leith	29.862
Shields	29.896
York	29.925
Loughborough	29.948
Ardrossan	29.876
Donaghadee	29.892
Holyhead	29.919
Liverpool	29.925
Parsonstown	29.940
Valencia	29.988
Roche's Point	29.941
Pembroke	29.944
Scilly	29.966
Jersey	29.971
Hurst Castle	29.966
Dover	29.955
LONDON	29.967
Oxford	29.966
Cambridge	29.957
Yarmouth	29.938



TEMPERATURE, & WEATHER at 8 A.M., with RAINFALL in PAST 24 HOURS

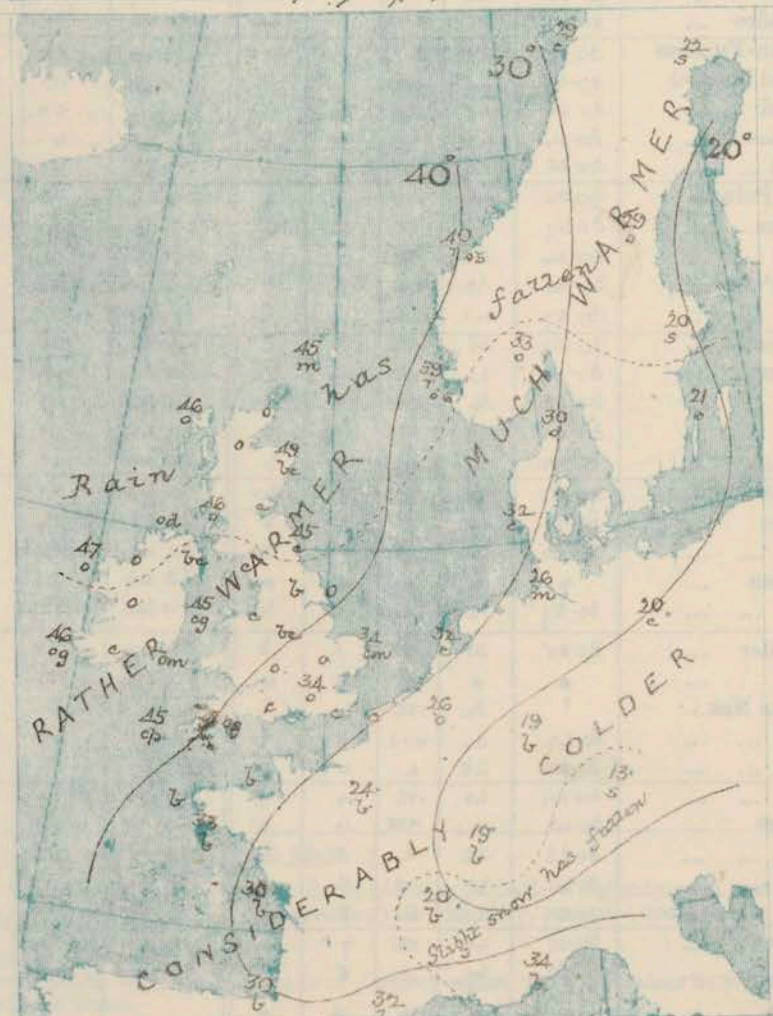
Temperature — Isotherms are drawn for each 10° changes since previous morning are stated in words.
Weather — is shown by letters of the Beaufort Scale.
Rainfall — A dotted line separates the districts in which rain has fallen from those where there has been none. Falls of 0.5 in. or more, are quoted in figures.

MEANS OF TEMPERATURE IN SHADE.

AND RAINFALL.
 for the month of March.

STATIONS	TEMPERATURE				RAINFALL. (Inches)
	Daily Max	Daily Min	at 8 a.m.		
			Dry	Wet	
Sumburgh Head.	42.6	34.0	38.5	37.1	2.02
Stornoway	44.9	34.4	39.2	38.0	3.87
Wick	44.7	33.9	39.1	37.2	1.97
Nairn	45.6	34.2	38.2	36.3	1.72
Aberdeen	45.4	34.7	38.9	36.8	2.24
Leith	48.2	34.6	39.7	37.9	1.36
Shields	45.9	35.4	39.6	38.0	1.60
York	48.9	38.7	38.6	37.1	1.63
Loughborough	49.8	34.3	39.5	37.7	1.47
Ardrossan	46.8	36.6	40.5	38.7	2.59
Donaghadee	47.3	37.1	41.0	39.7	1.99
Holyhead	47.6	39.2	42.5	41.0	2.21
Liverpool	47.3	37.1	40.8	38.7	1.69
Parsonstown	50.1	35.5	41.2	39.6	2.35
Valencia	51.6	40.6	45.4	43.4	4.24
Roche's Point	50.2	40.0	43.8	42.1	3.71
Pembroke	47.1	39.5	42.6	40.8	2.45
Scilly	49.9	43.0	46.5	44.7	2.38
Jersey	49.9	40.5	44.7	42.7	2.32
Hurst Castle	48.3	37.7	41.6	40.7	1.80
Dover	46.9	37.8	41.6	39.9	1.86
LONDON	50.6	35.8	40.6	38.7	1.43
Oxford	49.5	35.2	39.4	37.9	1.52
Cambridge	50.6	33.3	39.2	37.7	1.33
Yarmouth	45.7	35.8	40.8	39.1	1.77

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



GENERAL SITUATION AT 8 A.M.

PRESSURE	Highest, 30.4, to nearly 30.6 ins., over Ireland, England, the west and north of France, and north Germany. Lowest, 29.2 ins. and less over Lapland, 29.6 ins. and less off the northwest of Norway, 29.9 ins. and less over the Gulf of Genoa. Gradients becoming rather steep for W. winds in the north, for NE. winds over the south of France, slight over Ireland, England, and the north-west of France. Barometer rising in Spain and France, falling in our Islands and over the North Sea.
TEMPERATURE	Highest 64° at Lisbon and Belmullet, 65° at Valencia, Penbrooke, and Hørnøysund. Lowest 15° at Munich, 19° at Wiesbaden, 20° at Berlin, Lyons and Stockholm, 24° at Paris, 29° at Rome and Heriöland, and 34° in London. It is rising in our Islands generally, after being very cold with eastern countries during the night, falling over Germany and France.
WIND	SW. to S. over Scandinavia, moderate in the north, strong elsewhere, and a gale at Christiansund. N.W. to W. in our Islands, strong at Ullish, moderate to slight elsewhere. NE. over the Bay of Biscay and north of France - NW. very strong in the south of France.
WEATHER	Unsettled in the north - with rain in Norway, snow in Sweden. Cloudy or overcast over the greater part of the Kingdom. Clear over our northeastern countries, and in France.
SEA	Rather rough at Christiansund, moderate at our northern stations generally, slight or smooth elsewhere.

PROBABLE CHANGES IN SYSTEM NOW PREVALENT

The barometer is still falling in our Islands, and the distribution of pressure is favourable for the advance towards our north and northeast coasts of depression from the northwestward. The weather cannot therefore be considered as at all settled.

FORECASTS

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

DISTRICTS.	FORECASTS.	DISTRICTS.	FORECASTS.
0 { SCOTLAND NORTH	NW th winds, strong; squally, some cold showers	6 { SCOTLAND WEST	W th and NW th winds, freshening; squally, cold showers at times.
1 { SCOTLAND EAST		7 { ENGLAND N.W.	
2 { ENGLAND N.E.	NW th breezes, freshening; some cold showers, changeable.	8 { ENGLAND S.W.	NW th breezes, light or moderate; fair, colder.
3 { ENGLAND EAST		9 { IRELAND NORTH	Same as Nos 6 and 7.
4 { MIDLAND COUNTIES		10 { IRELAND SOUTH	NW th breezes, freshening; cold, fair.
5 { ENGLAND SOUTH			
		WARNINGS	NONE ISSUED.

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

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

YESTERDAY'S 2 P.M. REPORTS.

	Bar.	Dry.	Wet.	Wind.	Wca.	Sea.		Bar.	Dry.	Wet.	Wind.	Wca.	Sea.
Skudesnaes ...	30.54	30	28	SSE 8	0	5	Holyhead ...	30.56	41	41	SSW 3	omg	2
Sumburgh Head ...	30.23	44	44	W 8	m	4	Valencia ...	30.57	52	48	W 2	cm	2
Stornoway ...	30.34	57	49	SSW 14	c	3	Scilly ...	30.52	46	44	ENE 4	0	4
Aberdeen ...	30.41	43	41	S 3	cm	3	Jersey ...	30.53	45	40	ENE 4	bc	3
Shielda ...	30.54	42	38	S 2	c	2	Dungeness ...	30.54	37	34	NE 5	c	4
Ardrossan ...	30.51	43	43	SSW 2	0	2	London ...	30.59	38	34	ENE 3	bc	4
Malin Head ...	30.48	46	46	W 3	0	2	Yarmouth ...	30.58	36	33	ENE 4	bv	4
Mullaghmore ...	30.53	49	47	WSW 2	ov	2	Rocheport ...	30.42	48	41	NE 4	b	2
Belmullet ...	30.55	49	47	WSW 2	c	*							

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

The reports for yesterday morning showed that pressure was highest, 30.40 ins. to 30.65 ins., in a long and broad anticyclonic band which extended southwards from Finland across Scandinavia the North Sea and Great Britain to the extreme west of our Islands. The lowest readings were found over Southern Europe and the Mediterranean, where three well defined depressions existed. The first of these, with readings below 29.4 ins., lay over the Adriatic; the second, a deep disturbance with readings below 29.5 ins., over the Gulf of Genoa; and the third, with readings below 29.9 ins., over the Balearic Islands. In addition to these, however, there were indications of the advance of a depression towards the extreme north of Norway. The wind was light from the SWnd in Scotland and moderate to strong from the SEnd in the coast of Norway. In most other parts of Europe it blew from the NEnd, and at the Baltic ports it was strong, to a gale, but at the Mediterranean stations cyclonic circulations were shown round one or other of the depressions noticed above. In the south of France the "mistral" blew strongly. Snow was falling over Norway, Eastern Germany, Poland, and some parts of Austria and Russia, and rain at several of the Scotch stations, but elsewhere the weather, though dull in places, was mostly fair and dry. Temperature had risen a little in the north of our Islands and coast of Norway, as well as over Spain and the western parts of the Mediterranean, but fallen elsewhere, rapidly over Germany, the Baltic Provinces and Finland; readings ranged from a few degrees above 50° at the Portuguese and Mediterranean stations to several degrees below zero over Northern Russia. The highest individual readings were 57° at Barcelona, Brindisi and Malta, 56° at Oporto, 54° at Languis, Cagliari, and La Palme, 53° at Oran, and 52° at Palermo and Algiers; the lowest were -10° at Archangel and Kuopio, -9° at Allexborg, -5° at Helsingfors, -2° at St. Petersburg, -1° at Hango, 0° zero at Haparanda, +2° at Helsingfors, 3° at Riga, 6° at Memel, 9° at Stockholm, 12° at Warsaw, 14° at Minsk, and Copenhagen, and 18° at Rode.

In the course of the day a brisk fall of the barometer took place over Scandinavia, the northern portion of the anticyclonic band gave way entirely and SW^{ly} breezes extended over all our more northern districts. Over Central England, a sharp front was experienced at night and in London, the thermometer on the grass fell to 16°.

General Remarks on the Weather over Western Europe for 24 hours ended at 8 a.m. March 15th

The reports for Thursday morning showed that the highest pressures, 30.5 ins. and upwards, were found in an anticyclone lying over the coast of Ireland, while the lowest, 29.5 ins. and less, were reported in a depression lying over Russia and Western Russia. A second depression, with readings below 29.9 ins., was however, lying over Northern Russia, while a third, with readings below 29.7 ins., existed over Tunis and the adjacent parts of the Mediterranean. The wind over Western and Northern Europe was chiefly N^{ly} and light to fresh in force. Over Germany, Austria and Western Russia, however, a cyclonic circulation was shown round the first of the depressions noticed above, while at the Mediterranean stations the wind was E^{ly} or NE^{ly}. The weather was fine over England, the south of Ireland, and the northern parts of Scandinavia, as well as in Spain, the south of France and Northern Italy. Elsewhere, however, the sky was cloudy or overcast, with snow over the Baltic and Gulf of Finland, and heavy rain in Algeria. Temperature had risen a little in Spain the south of France and Western Germany, but fallen elsewhere—quickly over the northern parts of Sweden and Russia; readings ranged from between 50° and 60° at the Mediterranean stations to very little above zero over Northern Europe. The highest individual readings were 60° at Malta, 58° at Brindisi, 55° at Palermo and Tunis, 54° at Cagliari, 53° at Barcelona and Naples, 52° at Oran, and 51° at Languis, Lymon, and Algiers; the lowest were 0° zero at Haparanda, +1° at Allexborg, 4° at Archangel and Kuopio, 11° at Helsingfors and Moscow, 13° at St. Petersburg, 14° at Hango, 17° at Rode and Stockholm and 23° at Minsk.

In the course of the day the depression over Ireland travelled southeastwards over Russia, but other disturbances began to form over the Mediterranean. In our Islands little change was observed excepting over England, where rain fell during the latter part of the day.

EXPLANATION OF COLUMNS GIVEN ON PAGE 1.

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

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

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

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

DAILY WEATHER REPORT.

for Sunday 17th MARCH 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 ..	29.03	14	N	2	b	29.10	- .02	15	13	-	7	N	4	b	*	26	10	-
Hernösand ...	29.10	35	Z	0	b	29.34	- .12	26	23	-	3	NW	6	b	*	46	16	-
Stockholm ...	29.34	35	WSW	2	o	29.36	- .46	31	25	+	11	NNW	2	b	*	36	5	0.08
Wisby ...	29.53	32	SW	6	o	29.39	- .68	32	30	+	11	NNW	6	o	*	?	19	0.35
Bodö ...	29.17	31	W	6	o	29.45	+.08	25	22	-	4	NW	4	bc	3	32	23	-
Christiansund...	29.52	34	NNE	8	o	29.63	+.05	29	28	-	11	WNW	8	s	6	41	25	0.35
Skudeenes ...	29.67	39	WNW	8	r	29.83	- .18	34	31	-	5	NW	8	s	5	41	32	-
Christiania Fjord (Fjord)	29.41	36	WSW	5	b	29.60	- .27	34	33	+	1	Z	0	o	3	36	30	-
Skagen (The Seaw)	29.45	35	WNW	6	b	29.60	- .39	35	31	+	5	NE	1	o	1	41	30	-
Fanö ...	29.87	36	W	5	b	29.78	- .50	36	35	+	4	WNW	5	b	*	37	32	0.12
BRITISH ISLANDS.																		
Sumburgh Head	29.92	29	NW	6	r	30.02	+.14	33	32	-	12	N	2	o	5	47	30	0.01
Stornoway ..	30.20	45	NW	3	bc	30.09	- .09	43	43	-	3	N	2	r	2	50	40	0.14
Wick ...	30.08	44	NW	6	o	30.06	- .01	39	38	-	8	N	3	o	2	50	37	0.08
Nairn ...	30.14	46	W	3	c	30.06	- .12	42	42	-	6	Z	0	r	1	52	41	0.05
Aberdeen...	30.15	45	WNW	6	bc	30.09	- .09	40	39	-	9	NW	2	or	2	52	40	0.04
Leith ...	30.19	50	W	2	bc	30.14	- .11	44	43	-	3	W	1	om	*	57	39	0.02
Shields ...	30.18	50	W	2	b	30.12	- .19	44	43	-	1	W	1	op	2	53	37	-
Spurn Head ...	30.20	44	W	5	b	30.18	- .18	40	39	-	1	W	3	c	3	48	38	-
York ...	30.20	48	W	4	bc	30.15	- .18	46	44	+	2	W	1	o	*	54	36	-
Loughborough	30.31	47	WNW	3	c	30.24	- .20	45	44	+	5	WNW	3	ogm	*	52	40	-
Ardrossan ...	30.27	48	WNW	4	c	30.15	- .16	46	46	0	W	3	o	2	53	44	-	
Malin Head ...	30.33	45	NW	1	o	30.18	- .19	44	44	-	1	W	3	c	3	47	43	0.15
Mullaghmore ...	30.40	48	WSW	4	o	30.23	- .24	45	44	-	1	SW	4	o	2	50	44	-
Belmullet ...	30.41	48	W	3	bc	30.21	- .28	46	46	-	1	WSW	3	o	*	50	45	0.12
Donaghadee ...	30.33	48	NW	3	bc	30.22	- .20	45	44	+	2	WSW	4	c	2	50	42	0.06
Barrow-in-Furness	30.28	46	NNW	4	r	30.21	- .19	44	43	+	1	NW	3	c	*	46	43	0.08
Liverpool (Bidston)	30.32	44	W	6	o	30.25	- .20	44	43	+	1	W	4	c	3	47	43	0.04
Holyhead ...	30.37	48	WSW	4	o	30.28	- .21	44	43	-	1	WSW	2	og	2	51	44	-
Parsonstown ...	30.44	47	W	1	o	30.28	- .25	43	41	-	1	Z	0	o	*	49	41	0.01
Valencia ...	30.47	49	SSW	1	o	30.28	- .28	49	45	+	3	SSW	4	o	4	50	45	-
Roche's Point...	30.46	48	WNW	3	c	30.35	- .21	47	45	0	W	3	o	3	50	45	-	
Pembroke ...	30.44	46	WNW	4	c	30.32	- .20	45	43	-	1	SSW	2	c	2	48	44	-
Scilly ...	30.47	47	W	4	bc	30.36	- .19	47	45	+	2	WSW	1	o	2	50	43	-
Prawle Point...	30.45	45	NW	3	o	30.35	- .22	45	42	+	6	WNW	2	b	1	46	36	-
Jersey ...	30.48	46	WNW	3	c	30.38	- .21	48	44	+	16	WNW	3	bm	3	48	31	-
Hurst Castle ...	30.39	48	NW	4	bc	30.31	- .22	43	42	+	5	W	3	c	1	49	38	-
Dungeness ...	30.31	42	W	4	m	30.23	- .29	44	42	+	13	WNW	4	c	2	44	30	-
London ...	30.32	49	WNW	4	c	30.26	- .23	43	39	+	9	WNW	1	e	*	50	34	-
Oxford ...	30.35	44	WNW	3	b	30.29	- .20	41	40	+	4	WSW	1	o	*	52	36	-
Cambridge ...	30.30	48	NW	1	o	30.24	- .21	46	44	+	9	NW	1	c	*	54	35	-
Yarmouth ...	30.22	46	W	4	o	30.18	- .25	41	40	+	7	NW	3	b	2	47	33	-
Cuxhaven ...	30.12	35	SW	5	f	29.91	- .52	37	36	+	11	WNW	5	bc	*	37	34	0.08
Berlin ...	30.18	30	W	3	o	29.88	- .54	34	32	+	14	W	4	o	*	34	21	-
Wiesbaden ...	*	*	*	*	*	30.11	- .21	33	33	+	14	NE	1	o	*	?	?	0.04
Munich ...	30.35	13	SW	3	b	30.25	- .09	17	15	+	4	SW	5	o	*	23	7	-
FRANCE & NETHERLANDS.																		
The Helder ...	30.15	38	SW	2	r	30.11	- .33	39	38	+	7	WNW	2	c	2	41	32	0.20
Brussels ...	*	*	*	*	*	30.20	- .32	40	40	+	14	WSW	1	f	*	40	35	0.04
Cape Gris Nez...	?	41	WSW	4	c	?	?	41	39	+	11	WNW	3	c	2	46	30	-
Paris ...	30.43	37	S	1	o	30.38	- .17	41	40	+	17	W	1	o	*	?	36	-
Brest ...	30.53	43	NW	1	b	30.46	- .15	45	43	+	14	NW	1	o	1	48	39	-
Lorient ...	30.50	43	W	3	c	30.44	- .11	42	40	+	9	NW	1	o	2	45	34	-
Rocheport ...	30.51	43	NW	3	b	30.45	- .11	42	40	+	12	ENE	1	o	2	46	32	-
Beaufort ...	30.33	24	E	3	b	30.30	- .07	28	27	+	9	W	1	o	*	28	18	-
Lyon ...	30.24	29	N	4	b	30.40	+.03	29	25	+	9	NNW	3	o	*	32	24	-
Nice ...	29.91	39	SW	2	b	30.04	+.15	35	28	+	1	ENE	5	b	1	46	30	-
Perpignan ...	30.19	40	NW	6	b	30.26	+.09	41	34	+	9	NW	5	b	*	45	37	-
Biarritz ...	30.26	42	NNE	4	b	30.42	+.02	31	28	+	1	E	3	b	1	45	28	-
Corunna ...	*	*	*	*	*	30.25	- .18	53	46	+	6	E	1	b	4	55	39	-
Lisbon ...	30.20	58	NNW	5	b	30.13	- .13	44	38	-	3	NNW	5	bc	2	61	43	-
PORTUGAL.																		

WEATHER

CHARTS

for 8 a.m. on

Sunday, 17th March,

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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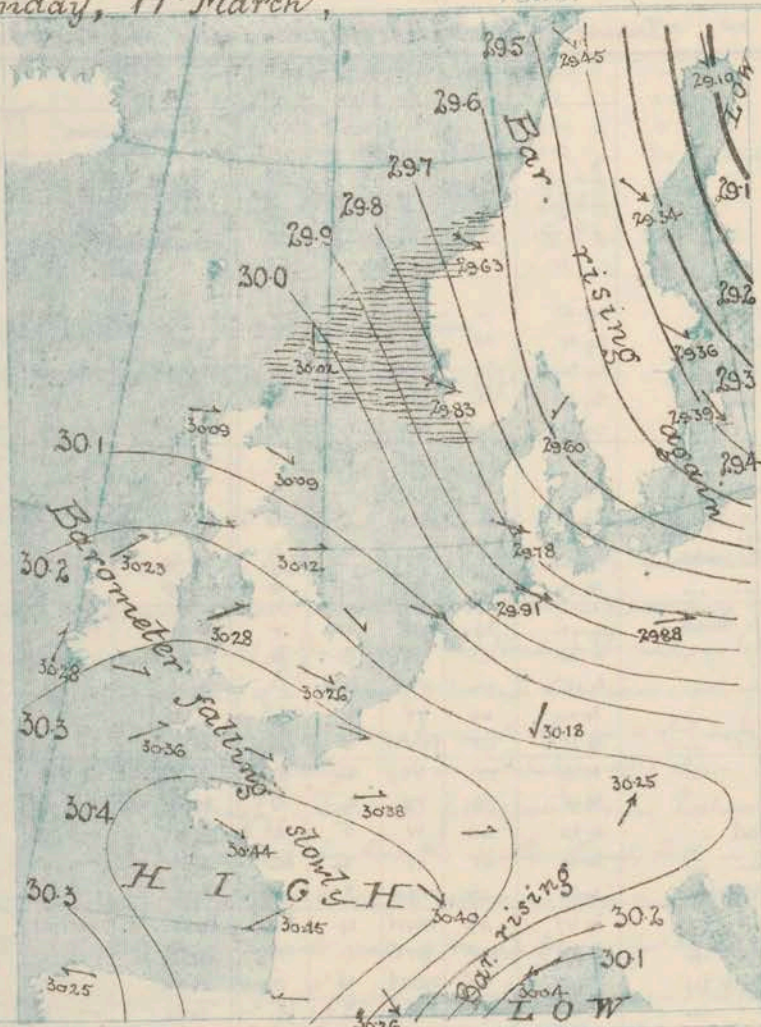
Sea Disturbance — where considerable, is shown thus:

— Rough — High

MEAN HEIGHT of the BAROMETER

at 6 a.m. for the month of March.
 During the 15 Years 1871-1885.

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	in.
Sumburgh Head	29.751
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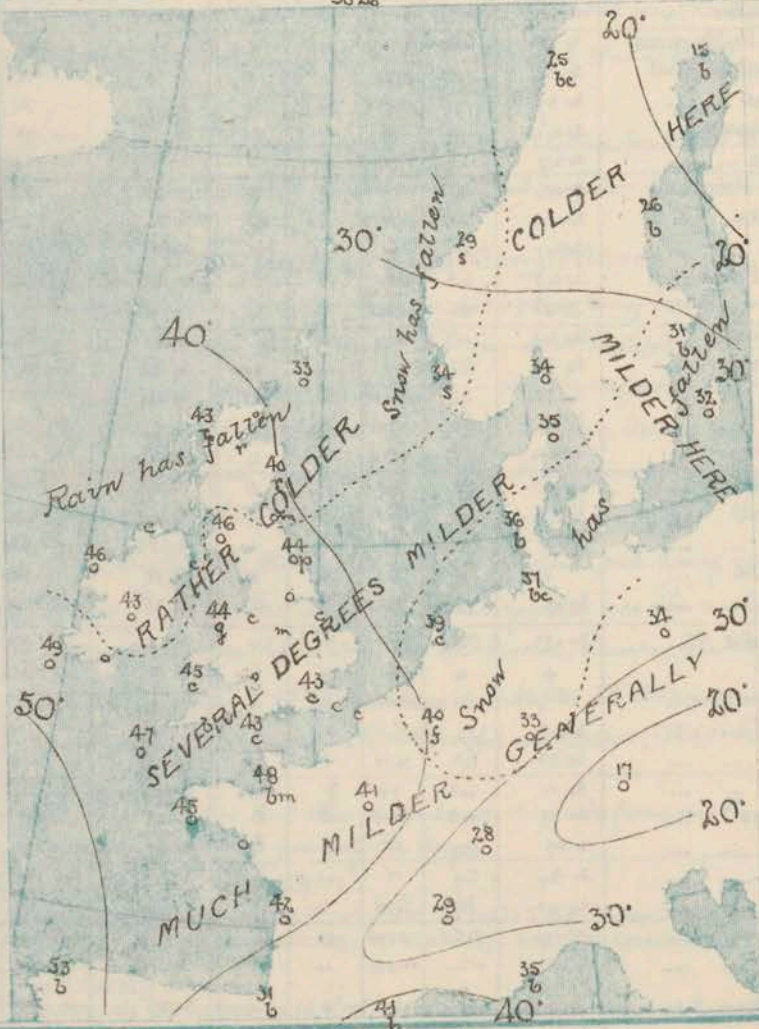
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AND RAINFALL.
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Aberdeen	45.4	34.7	38.9	36.8	2.24
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Shields	45.9	35.4	39.6	38.0	1.60
York	48.9	33.7	38.6	37.1	1.63
Loughborough	40.8	34.3	39.6	37.7	1.47
Ardrossan	46.3	36.6	40.5	38.7	2.59
Donaghadee	47.3	37.1	41.0	39.7	1.89
Holyhead	47.6	39.2	42.6	41.0	2.21
Liverpool	47.3	37.1	40.8	38.7	1.69
Parsonstown	50.1	35.5	41.2	39.6	2.85
Valencia	51.6	40.6	45.4	43.4	4.24
Roche's Point	50.2	40.0	42.8	42.1	3.71
Pembroke	47.1	39.6	42.6	40.8	2.45
Scilly	49.9	43.0	46.5	44.7	2.39
Jersey	49.9	40.5	44.7	42.7	2.82
Hurst Castle	48.3	37.7	41.6	40.7	1.80
Dover	46.9	37.8	41.6	39.9	1.86
LONDON	50.6	35.8	40.8	38.7	1.43
Oxford	49.5	35.2	39.4	37.9	1.52
Cambridge	50.8	33.3	39.2	37.7	1.23
Yarmouth	45.7	35.8	40.8	39.1	1.77

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



GENERAL SITUATION AT 8 A.M.

PRESSURE

Highest, 30.4 ins: and upwards, in an anticyclone lying over the Bay of Biscay, the west of France, and the northeast of Spain.
Lowest, 29.1 ins: and less, over Lapland.

Gradient moderate over Scandinavia, Denmark and Germany, but slight elsewhere. Barometer falling at all but the Scandinavian stations—most in the west of our islands.

TEMPERATURE

Highest, 53° at Garmna, 49° at Valencia, 48° at Jersey, 47° at Roker Point and Seilly, and 46° at Androsan and Helmslet.
Lowest, 15° at Staparanda, 17° at Munich, 25° at Rode, 26° at Helsingfors, 28° at Christiansund, and 31° at Stockholm.

WIND

Light or moderate from the S.W. on our western coasts, and from W. or N.W. in the east of our islands.
Strong to gale from W. or N.W. on the eastern shores of the North Sea.
Light to fresh from the E. in the south and southeast of France.

WEATHER

Fine in London, Denmark, and the southern parts of our islands and France.
Cloudy or overcast elsewhere, with rain at Stormoway, and snow in the west of Norway.
Since yesterday morning rain has fallen at several of our northernmost and northern stations.

SEA

Rather rough at Lumburgh Head and also off the west of Norway, but slight or smooth elsewhere.

PROBABLE CHANGES IN SYSTEM NOW PREVALENT

The anticyclone over the Bay of Biscay and France is apparently moving southwards and depressions are beginning to approach our western coasts from the Atlantic.

FORECASTS

For the 24 hours ending at NOON on 18TH MARCH 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.

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.	Ses.		Bar.	Dry.	Wet.	Wind.	Wea.	Ses.
Skudesnaes ...	29.87	41	41	W 2	af	4	Holyhead ...	30.43	49	46	W 3	c	2
Sumburgh Head ...	29.87	45	42	NW 6	o	5	Valencia ...	30.53	50	45	W 2	ov	2
Stornoway ...	30.21	50	47	NW 5	c	4	Scilly ...	30.53	49	46	WSW 4	c	3
Aberdeen ...	30.14	48	42	W 4	cq	3	Jersey ...	30.54	44	40	WNW 2	o	2
Shields ...	30.21	50	48	W 4	c	2	Dungeness ...	30.39	42	40	W 4	c	3
Ardrossan ...	30.27	47	45	WNW 4	o	3	London ...	30.38	50	45	WSW 1	c	*
Malin Head ...	30.36	46	46	NW 3	o	3	Yarmouth ...	30.29	46	44	WSW 3	ovg	3
Mullaghmore ...	30.43	49	48	W 5	ov	4	Rochefort ...	30.56	43	37	NNW 5	b	2
Belmullet ...	30.46	50	49	WNW 3	org	*							

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

The reports for yesterday morning showed that pressure was going way rapidly over Northern Europe, but increasing in the south, and that readings were as high as 30.20 ins. to nearly 30.60 ins. in an anticyclone which was spreading in from the Atlantic across Ireland, England, the Bay of Biscay, France and North Germany, whence it extended in a long ridge across the Baltic Provinces and Central Russia. To the northward readings decreased in value to 29.2 ins. and less, in a depression lying over Lapland, while to the southward they decreased to 29.6 ins. and less, over the southern half of Italy and Sicily. Westerly (NW to SW) winds were becoming general over all the northern countries, while E to N breezes were felt in the south; the former blew a gale at Christiansund only, while the latter blew hard as a "mistral" in the south of France and the northeast of Spain; in other places the force of the wind was generally light to fresh. The weather was clear and bright over France and southern Europe, as well as over some of the northeastern counties of Great Britain and on the shores of the Baltic; elsewhere it was cloudy, and unsettled. Rain was falling in the west of Norway and at Longjumeau, snow in Sweden, Finland, several parts of Germany, and even at Aumale (Algeria). Temperature was very low over Central, Southern and Eastern Europe, but was rising with rapidity in the north; it had risen 34° at Helsingfors, and 20° or more at Archangel, Uleaborg, and Haparanda since the previous day. The lowest morning readings reported were -5° F. at Moscow and Riga, -2° at St. Petersburg and Mermel, +4° at Warsaw, 6° at Archangel, 8° at Kuopio, 12° at Rostow 13° at Orsk and Munich, 17° to 20° at most of the German and Austrian stations and in the East of France, 20° at Berlin 24° at Paris, 26° at Brussels, 30° at Biarritz, 32° at Madrid and Perpignan, 33° at Florence, 34° at Nice and 35° at Aumale. The highest were 54° at Oran, 49° at Aberdeen, 48° at Nain, 47° at Belmullet, Wick and Cosmo, 46° at Valencia, 45° at Malin Head, Holyhead and Scilly.

Later in the day the fall of the barometer continued and the mild weather spread considerably to the southward, covering the whole of the British Isles and the northern parts of France.

EXPLANATION OF COLUMNS GIVEN ON PAGE 1.

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

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

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

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

DAILY WEATHER REPORT.

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

Issued by the Meteorological Office, 55, Victoria Street, London, W. 1. 1907.																	
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 ..	29.40	3	N	2	bc	29.42	+ 32	6	5	- 9	20	0	bc	*	19	3	-
Hernösand ...	29.52	216	N	0	b	29.59	+ 25	7	7	- 19	20	0	b	*	36	?	-
Stockholm ...	29.50	27	NW	2	bc	29.62	+ 26	20	19	- 11	NW	2	bc	*	36	23	0.12
Wisby ...	29.56	28	NNW	4	b	29.59	+ 20	27	26	- 5	NW	4	bc	*	37	27	-
Bodö ...	29.60	23	NW	4	c	29.50	+ 05	27	24	+ 2	W	5	bc	3	?	16	-
Christiansund...	29.70	29	NNE	4	s	29.75	+ 12	26	25	- 3	ESE	2	bc	4	32	23	0.20
Skudesnaes ...	29.83	30	NW	8	c	29.84	+ 01	27	26	- 7	NW	1	b	3	41	?	-
Christiania Fjord (Fjorder)	29.60	31	WNW	4	b	29.75	+ 15	26	22	- 8	NW	2	b	1	36	21	-
Skagen (The Scaw)	29.62	33	N	4	b	29.72	+ 12	30	26	- 5	N	2	b	1	37	28	-
Fanö ...	29.86	39	W	4	c	29.86	+ 08	33	31	- 3	NW	3	c	*	39	28	-
BRITISH ISLANDS.																	
Sumburgh Head	30.02	31	N	2	o	29.87	- 15	29	28	- 4	20	0	c	3	34	26	-
Sornoway ...	30.02	40	E	5	o	29.72	- 37	36	36	- 7	NE	4	r	4	43	33	0.32
Wick ...	30.03	36	NE	3	o	29.82	- 24	32	31	- 7	SE	4	o	3	39	30	0.05
Nairn ...	30.02	40	E	1	r	29.74	- 32	33	33	- 9	W	1	s	1	45	32	0.22
Aberdeen...	30.05	37	N	1	og	29.83	- 26	34	33	- 6	SE	4	ors	5	41	33	0.23
Leith ...	30.00	43	W	2	r	29.77	- 32	39	38	- 5	NE	1	orf	*	52	36	0.08
Shields ...	30.00	48	WSW	3	o	29.78	- 34	44	42	0	WSW	1	om	2	50	41	0.03
Spurn Head ...	30.06	44	WSW	4	o	29.87	- 31	42	40	+ 2	WSW	3	c	3	47	40	0.01
York ...	30.05	46	W	2	o	29.83	- 32	43	41	- 3	WSW	1	o	*	53	41	-
Loughborough	30.12	47	W	1	o	29.91	- 33	42	40	- 3	WSW	3	o	*	55	41	0.01
Ardrossan ...	30.02	47	WNW	1	op	29.76	- 39	39	39	- 7	NE	2	om	1	51	38	0.10
Malin Head ...	30.02	45	W	2	op	29.71	- 47	42	40	- 2	S	4	cm	2	48	42	0.03
Mullaghmore ...	30.04	49	SSW	3	o	29.70	- 53	45	42	0	SSE	5	c	2	51	43	0.02
Belmullet ...	30.02	48	SSW	5	o	29.66	- 55	50	49	+ 4	S	5	e	*	52	45	0.05
Donaghadee ...	30.05	48	WSW	2	c	29.79	- 43	43	42	- 2	WSW	3	bc	1	52	42	0.01
Barrow-in-Furness	30.09	43	SW	3	o	29.85	- 36	42	41	- 2	SW	3	d	*	46	41	0.03
Liverpool (Bidston)	30.11	45	W	3	o	29.88	- 37	42	40	- 2	SSW	2	o	2	47	41	0.02
Holyhead ...	30.13	46	SW	3	og	29.85	- 43	44	42	0	SSW	3	c	3	50	42	0.02
Parsonstown ...	30.10	46	SW	1	o	29.77	- 51	42	40	- 1	SE	1	o	*	49	41	-
Valencia ...	30.07	49	SSW	6	o	29.69	- 59	49	46	0	S	5	o	5	50	45	0.06
Roche's Point...	30.12	47	SW	4	o	29.77	- 58	47	44	0	S	4	c	4	49	45	-
Pembroke ...	30.18	45	SSW	3	o	29.87	- 45	45	42	0	S	5	og	4	47	44	0.03
Scilly ...	30.21	47	SSW	4	o	29.83	- 53	48	45	+ 1	SSE	5	o	4	50	44	-
Prawle Point ...	30.23	45	W	2	o	29.94	- 41	44	41	- 1	S	4	og	3	49	41	-
Jersey ...	30.27	48	WSW	3	og	29.99	- 39	41	39	- 7	SSW	1	cm	1	52	37	-
Hurst Castle ...	30.21	44	WSW	4	bc	29.98	- 38	44	42	+ 1	SW	3	c	1	50	43	-
Dungeness ...	30.16	45	W	4	c	30.00	- 23	42	41	- 2	W	4	o	3	54	41	-
London ...	30.16	51	WSW	1	o	29.97	- 29	43	40	0	SW	1	o	*	53	38	0.02
Oxford ...	30.15	45	W	2	o	29.96	- 33	42	40	+ 1	SW	2	o	*	53	40	-
Cambridge ...	30.14	48	W	1	o	29.94	- 30	43	41	- 3	SW	1	o	*	52	39	-
Yarmouth ...	30.10	49	WNW	3	bc	29.92	- 26	43	41	+ 2	W	3	c	2	50	34	-
Cuxhaven ...	29.95	34	WNW	5	b	29.91	- 00	35	34	- 2	WNW	2	c	*	38	33	-
Berlin ...	29.88	37	W	5	o	29.89	+ 01	35	33	+ 1	WNW	4	o	*	39	34	-
Wiesbaden ...	*	*	*	*	*	30.06	- 12	39	37	+ 6	W	2	o	*	43	?	-
Munich ...	30.22	31	SW	4	o	30.10	- 15	35	34	+ 18	SW	3	c	*	36	?	-
FRANCE & NETHERLANDS.																	
The Helder ...	*	*	*	*	*	30.06	+ 06	42	40	+ 2	WSW	3	o	*	49	?	0.04
Brussels ...	*	*	*	*	*	?	?	42	40	+ 1	W	2	o	2	48	39	-
Cape Gris Nez...	?	43	SW	1	o	30.06	- 32	42	40	0	SSE	1	o	*	53	40	-
Paris ...	30.26	49	WNW	2	o	?	?	41	40	0	SSE	4	o	5	52	39	-
Brest ...	30.28	50	SW	4	o	29.98	- 48	44	42	- 1	ESE	4	o	2	50	39	-
Lorient ...	30.28	45	S	1	b	29.91	- 53	44	41	+ 2	SSE	4	o	2	54	30	-
Rochefort ...	30.31	48	NW	2	b	30.02	- 43	37	36	- 5	ESE	4	o	2	54	30	-
Belfort ...	?	25	W	1	o	30.13	- 17	25	?	- 3	E	1	b	*	33	21	-
Lyons ...	30.35	36	NNE	1	o	30.18	- 22	30	30	+ 1	S	1	b	*	41	29	-
Nice ...	30.04	47	WNW	3	b	30.13	+ 09	45	36	+ 10	ESE	3	b	1	54	?	-
Perpignan ...	30.20	50	WNW	3	b	30.13	- 13	34	32	- 7	SW	1	o	*	58	30	-
Biarritz ...	30.18	52	E	4	b	29.93	- 49	45	39	+ 14	SW	2	o	0	55	?	-
PENINSULA.																	
Corunna ...	*	*	*	*	*	29.91	- 22	52	50	+ 8	ESE	3	o	3	63	?	0.12
Lisbon ...	30.02	54	SSE	5	r	*	*	*	*	*	*	*	*	*	*	*	*

For Explanation of Columns, see p. 4.

† Received too late for insertion in Charts on p. 3.

WEATHER CHARTS

for 8 a.m. on Monday, 18th March 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.

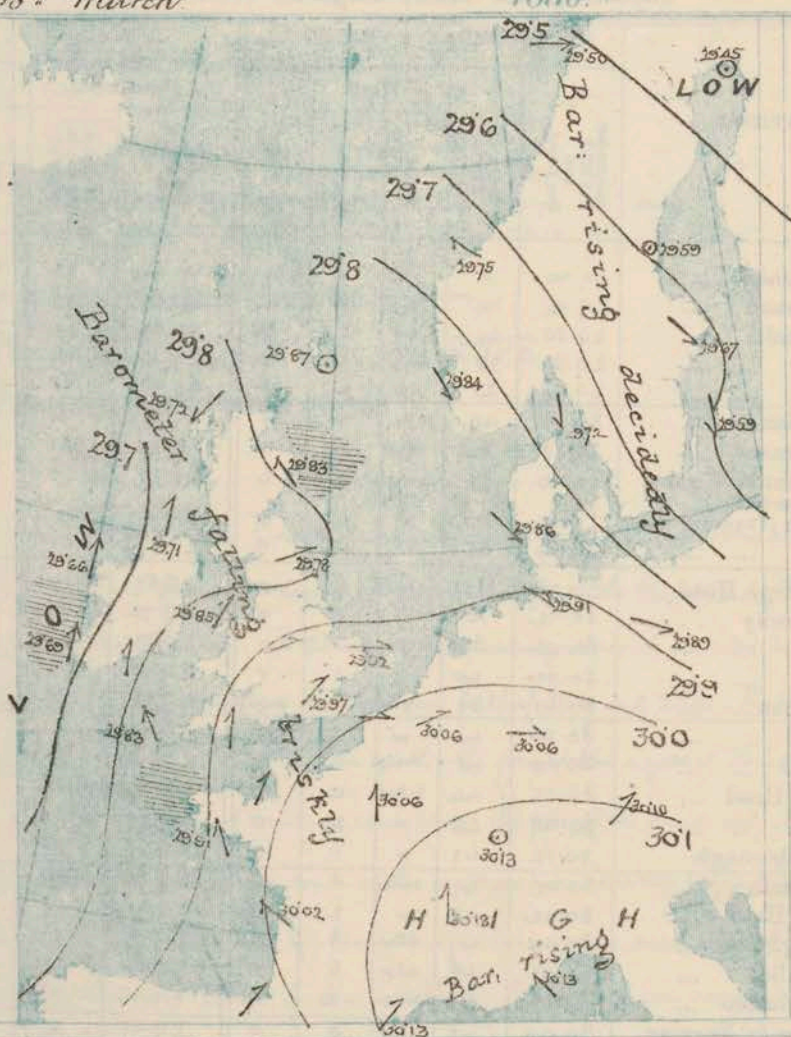
Sea Disturbance — where considerable is shown thus.

— Rough — High

MEAN HEIGHT of the BAROMETER

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

STATIONS	MEAN READINGS
Sumburgh Head	29.751
Stornoway	29.779
Wick	29.797
Nairn	29.815
Aberdeen	29.830
Leith	29.862
Shields	29.896
York	29.925
Loughborough	29.948
Ardrossan	29.876
Donaghadee	29.892
Holyhead	29.919
Liverpool	29.925
Parsonstown	29.940
Valencia	29.938
Roche's Point	29.941
Pembroke	29.944
Scilly	29.968
Jersey	29.971
Hurst Castle	29.968
Dover	29.965
LONDON	29.967
Oxford	29.966
Cambridge	29.967
Yarmouth	29.938



TEMPERATURE & WEATHER at 8 A.M., with RAINFALL in PAST 24 HOURS.

Temperature — Isotherms are drawn for each 10° changes since previous morning are stated in words.

Weather — is shown by Letters of the Beaufort Scale.

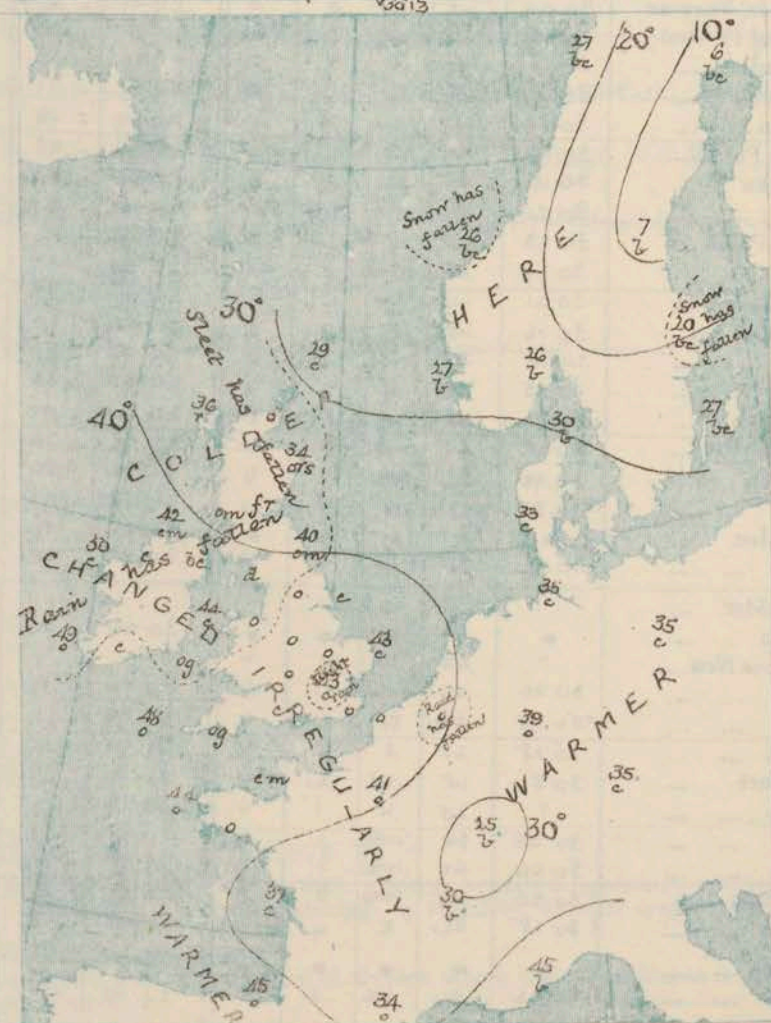
Rainfall — A dotted line separates the districts in which rain has fallen from those where there has been none. Falls of 1/16 in. or more, are quoted in figures.

MEANS OF TEMPERATURE IN SHADE.

AND RAINFALL
 for the month of March.

STATIONS	TEMPERATURE				RAINFALL (Inches)
	Daily Max.	Daily Min.	at 8 a.m.	at 11 a.m.	
Sumburgh Head	42.6	34.0	38.5	37.1	2.02
Stornoway	44.9	34.4	39.2	38.0	3.87
Wick	44.7	33.0	39.1	37.2	1.97
Nairn	45.6	34.2	38.2	36.3	1.72
Aberdeen	45.4	34.7	38.9	38.8	2.24
Leith	43.2	34.6	39.7	37.9	1.86
Shields	45.0	35.4	39.6	38.0	1.60
York	48.9	38.7	38.6	37.1	1.83
Loughborough	49.8	34.8	39.5	37.7	1.47
Ardrossan	48.8	38.6	40.5	38.7	2.69
Donaghadee	47.3	37.1	41.0	39.7	1.99
Holyhead	47.6	39.2	42.5	41.0	2.21
Liverpool	47.8	37.1	40.5	38.7	1.69
Parsonstown	50.1	35.5	41.2	39.6	2.35
Valencia	51.6	40.6	45.4	43.4	4.24
Roche's Point	50.2	40.0	43.8	42.1	3.71
Pembroke	47.1	39.5	42.6	40.8	2.45
Scilly	49.9	43.0	46.5	44.7	2.38
Jersey	49.9	40.8	44.7	42.7	2.32
Hurst Castle	48.3	37.7	41.6	40.7	1.80
Dover	46.9	37.8	41.6	39.9	1.86
LONDON	50.6	35.8	40.6	38.7	1.43
Oxford	49.5	35.2	39.4	37.9	1.52
Cambridge	50.6	33.3	39.2	37.7	1.33
Yarmouth	45.7	35.8	40.8	39.1	1.77

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



GENERAL SITUATION AT 8 A.M.

PRESSURE	Highest, 30.1 ins. and upwards, over the central and southern parts of France. Lowest, 29.5 ins. and less over Lapland, 29.7 ins. and less in the west of Ireland. Gradients slight generally. Barometer falling at all but the Swedish stations — most in the west.
TEMPERATURE	Highest, 52° at Lisbon, 50° at Bismmullet, 48° at Valencia, 48° at Seilly, and 47° at Rochefort. Lowest, 6° at Haparanda, 7° at Årnisand, 20° at Stockholm, 26° at Belfort, 26° at Christiansund and Londen, and 27° at Rode, Skudsmoer and Nizky. Frost was experienced last night in the north of Scotland.
WIND	Fresh from the S.W. in Ireland and the southwest of England, light from S.W. on our east and southeast coasts. Moderate from S.E. in the east of Scotland and also in the west of France. Light from N.W. in Denmark and the south of Scandinavia; W. or S.W. in Germany.
WEATHER	Fine in Scandinavia, Denmark, and the east and south of France. Cloudy, or overcast elsewhere, with rain and sleet in Scotland. A little rain fell yesterday in many parts of the United Kingdom.
SEA	Rather rough at Aberdeen, Valencia and Brest; but moderate to smooth elsewhere.

PROBABLE CHANGES IN SYSTEM NOW PREVALENT

The depression which is lying to the westward of our islands will probably occasion a further increase of wind on our west and southwest coasts, and unsettled rainy weather is likely to spread eastwards over the United Kingdom.

FORECASTS

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

DISTRICTS.	FORECASTS.	DISTRICTS.	FORECASTS.
0 SCOTLAND NORTH	SE ² winds, freshening; dull, some rain or sleet.	6 SCOTLAND WEST	SE ² winds, freshening; dull, some rain.
1 SCOTLAND EAST		7 ENGLAND N.W.	
2 ENGLAND N.E.	SW ² to S ² winds, freshening, fair at first, unsettled later, probably some rain.	8 ENGLAND S.W.	S ² winds, strong; cloudy, squally, some rain.
3 ENGLAND EAST		9 IRELAND NORTH	
4 MIDLAND COUNTIES		10 IRELAND SOUTH	
5 ENGLAND SOUTH			
		WARNINGS	NONE ISSUED.

Note—The South Cone, point downwards (↓) means that gales, or strong winds, are probable, at first from the Southward (from S.E. round by S. to N.W.) Should it appear likely that a gale beginning from between W. and N.W. is likely to veer towards N. or N.E., the North Cone is hoisted in preference to the South Cone.
The North Cone, point upwards (↑) means that gales, or strong winds, are probable, at first from the Northward (from N.W. round by N. to S.E.) Should it appear likely that a gale beginning from between E. and S.E. is likely to veer towards E. 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 ...	29.86	34	30	NW 8	S	5	Holyhead ...	30.21	48	45	SW 4	C	3
Sumburgh Head ...							Valencia ...						
Stornoway ...	30.05	41	40	E 4	O	3	Scilly ...						
Aberdeen ...							Jersey ...	30.38	51	46	SW 3	b	3
Shields ...							Dungeness ...	30.20	45	44	W 4	e	2
Ardrossan ...							London ...						*
Malin Head ...	30.10	48	46	W 3	b	3	Yarmouth ...						
Mullaghmore ...							Rochefort ...	30.41	51	47	NW 2	b	2
Belmullet ...	30.10	52	50	SW 4	C	*							

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

The reports for yesterday morning showed that pressure was high (30.20 ins. to 30.45 ins.) over Ireland, England, the Bay of Biscay, Spain, France and south Germany, and that it exceeded 30.0 ins. over Austria-Hungary and south Russia. To the northward it decreased to a little below 29.1 ins. over Finland, while to the southward it decreased to less than 29.7 ins. over Adria and the eastern part of Sicily. Over the northern half of Europe the wind varied from NW in Great Britain and over the North Sea and Scandinavia, to W over Germany and to SW over northern Germany, the Baltic provinces and northern Russia; over southern Europe it varied between E and N, while at Malta and in Tunis it was N to NW. The wind varied greatly; in Sweden the sky was clear, but at some Russian stations, and in Norway snow was falling, and in the British Islands the sky was overcast, and rain was falling in the north. Over southern Europe the sky was clear, but still further to the southward it was cloudy, and at Palermo rain was falling. Temperature had risen rapidly over France, Germany, the Baltic Provinces and England, but fallen over Scandinavia and the northern parts of the British Islands. Hard frost still prevailed over Russia, Austria-Hungary, south Germany and the east of France, but in our Islands, the north and west of France, and on the Spanish coasts the air was milder. The lowest individual readings were 3° F. at Kiev, 4° at Kharkov, 5° at Moscow and at Naparanda, 8° at Uleaborg, 13° at Archangel, 14° at Cracow, 19° at Munich, 19° at Warsaw, Lemberg and Vienna, 28° at Belfast, 29° at Lyons, 31° at Biarritz, and 32° at Madrid; the highest were 55° at Ayr, 53° at Corunna, 52° at Barcelona, 50° at Algiers, 49° at Valencia, 49° at Seville, 46° at Belmullet. In London the temperature was 43° at Paris 41°, Brussels 40°, and Berlin 32°. Later in the day rain or sleet fell in the north of our Islands, and some slight rain showers on our western coasts and in London, while the wind backed very generally, and the barometer continued to fall.

SUMMARY OF CHANGES IN THE WEATHER OVER THE BRITISH ISLANDS AND THEIR NEIGHBOURHOOD FROM THE 10TH TO THE 16TH MAR. 1889.

The changes in the distribution of pressure over Europe during the past week, and consequently in the winds and weather experienced, have been considerable. At first the highest pressures (30.1 ins. to 30.8 ins.) prevailed over Russia, and the lowest over western Europe, so that S.W. winds prevailed in most places, and while a depression off the west of Norway was passing away to the northward, another one was approaching the southwest of France from Spain, to fill up over Switzerland during Monday night. The Continental high-pressure area then gave way, while a new one arrived over western Europe from the Atlantic. Depressions of no great depth began at once to appear over the northern districts, and others over the Mediterranean - the former moving decidedly in a southeasterly direction to the Baltic, and Russia, and bringing about a spell of N.W. winds over the British Islands, while the latter caused NE winds over Spain and the south of France. By Friday morning the high-pressure system had spread NE across our Islands, the North Sea and Scandinavia to Finland, and as the Mediterranean depression had then grown deeper, the wind blew hard from between NE and NW over the south of France, and from about NNE on the Baltic coast of north Germany. This distribution of pressure, however, did not last long, for pressure at once gave way over northern Europe, and S.W. winds spread over the United Kingdom.

The weather over the United Kingdom has consequently been very changeable. On the earlier days it was cold but fair, a few places only reporting slight showers; some of the night frosts were very sharp. It then became milder, with bright intervals, but at the close of the week showers were becoming more general, as the wind was backing to the S.W.

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, 19th March, 1889.
Issued by the Meteorological Office 63 Victoria Street, London. R. H. SCOTT, Secretary.

Issued by the Meteorological Office, 65 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.		Sea. (0 to 9.)	SHADE TEMP.				
				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.	Force. (0 to 12.)			Max.	Min.	Amount of Rainfall.		
SCANDINAVIA.	Haparanda ..	29.19	10	SW	2	bc	29.34	+ .38.	8	7	+ 2.	SW	0	0	*	18	- 6	-	
	Hernösand ...	29.56	21	SW	0	b	29.45	- .14	23	20	+ 16	SW	2	c	*	30	- 2	-	
	Stockholm ...	29.69	18	SW	0	b	29.70	+ .08	16	14	- 4	SW	0	b	*	25	18	-	
	Wisby ...	29.77	21	SW	2	b	29.81	+ .22	22	21	- 5	S	2	b	*	25	18	-	
	Bodö ...	29.29	26	W	6	c	29.39	- .14	14	12	- 13	NE	2	b	2	28	10	-	
	Christiansund...	29.68	27	SW	6	S	29.52	- .23	28	27	+ 2	WSW	6	S	5	30	25	2.32	
	Skudesnaes ...	29.81	28	SW	0	b	29.67	- .17	30	26	+ 9	ESE	4	0	3	27	27	-	
	Christiania Fjord (Færdar)	29.76	29	SSW	2	b	29.70	- .06	25	23	- 4	SW	2	b	1	32	19	-	
	Skagen (The Sound)																		
	Fanö ...	29.80	80	NE	1	b	29.67	- .19	31	30	- 2	SE	4	b	*	36	28	-	
BRITISH ISLANDS.	Sumburgh Head	29.76	31	SW	0	csp	29.43	- .44	32	31	+ 3	ESE	3	S	4	34	29	0.02	
	Stornoway ...	29.56	40	SE	4	0	29.35	- .37	40	39	+ 4	E	2	bc	3	41	34	0.12	
	Wick ...	29.64	36	E	6	0	29.40	- .42	40	40	+ 5	SE	3	0	4	40	31	0.30	
	Nairn ...	29.60	38	SW	0	0	29.36	- .38	37	37	- 4	SW	0	0	1	38	32	0.08	
	Aberdeen...	29.67	37	SE	5	ogp	29.41	- .42	40	40	+ 6	SE	2	ogp	5	40	33	0.16	
	Leith ...	29.62	41	NE	1	0	29.36	- .41	41	41	+ 2	E	1	om	*	43	37	0.05	
	Shields ...	29.65	44	SW	0	0	29.40	- .38	41	41	- 3	SE	2	0	3	49	39	-	
	Spurn Head ...	29.69	44	SSW	1	0	29.39	- .48	41	40	- 1	SE	4	0	3	47	40	-	
	York ...	29.66	46	SW	1	0	29.37	- .46	41	39	- 2	E	1	0	*	49	39	-	
	Loughborough	29.71	45	SE	1	0	29.38	- .53	41	39	- 1	WSW	1	om	*	49	38	-	
GERMANY.	Ardrossan ...	29.60	45	ESE	2	0	29.30	- .46	42	40	+ 3	ESE	3	om	2	51	38	0.01	
	Malin Head ...	29.47	45	SSE	4	og	29.19	- .52	42	40	0	SE	5	og	3	49	41	-	
	Mullaghmore ...	29.44	48	SE	5	og	29.12	- .58	44	42	- 1	SE	5	og	4	49	43	11	
	Belmullet ...	29.38	48	S	5	0	29.03	- .63	44	43	- 6	SE	3	b	*	51	41	0.11	
	Donaghadee ...	29.58	45	S	3	c	29.25	- .54	43	42	0	SE	5	0	3	49	42	0.01	
	Barrow-in-Furness	29.64	43	ESE	2	0	29.32	- .53	41	39	- 1	E	4	og	*	44	40	0.02	
	Liverpool (Bidston)	29.66	44	SSE	1	0	29.31	- .57	40	38	- 2	SE	3	0	2	47	38	-	
	Holyhead ...	29.62	45	SSE	4	og	29.25	- .60	44	42	0	SE	3	c	*	47	41	0.02	
	Parsonstown ...	29.53	46	SE	1	0	29.11	- .66	44	43	+ 2	SW	0	0	*	52	41	0.03	
	Valencia ...	29.37	49	SSE	6	cm	29.06	- .63	42	40	- 7	SSW	3	fm	4	51	40	0.44	
FRANCE & NETHERLANDS.	Roche's Point...	29.47	47	S	5	ou	29.09	- .68	44	43	- 3	SW	3	T	4	49	43	0.25	
	Pembroke ...	29.59	45	SSE	5	0	29.20	- .67	46	45	+ 1	SSE	5	cqf	5	46	42	0.05	
	Scilly ...	29.55	48	S	6	op	29.19	- .64	49	47	+ 1	SSW	6	ogf	5	49	46	0.10	
	Prawle Point ...	29.65	44	SE	4	c	29.33	- .61	45	45	+ 1	S	6	pmu	4	47	42	0.01	
	Jersey ...	29.68	48	SE	1	ogm	29.47	- .52	47	45	+ 6	SSW	4	cqm	3	51	41	-	
	Hurst Castle ...	29.72	45	SE	3	c	29.40	- .58	47	46	+ 3	SSW	4	c	3	50	42	-	
	Dungeness ...	29.76	43	S	3	c	29.44	- .56	43	42	+ 1	SW	4	0	3	50	40	-	
	London ...	29.73	44	SSW	2	c	29.41	- .56	44	42	+ 1	SSW	1	0	*	53	41	-	
	Oxford ...	29.68	42	S	2	0	29.40	- .56	41	40	- 1	SE	2	og	*	47	40	-	
	Cambridge ...	29.72	46	S	1	0	29.40	- .54	41	40	- 2	S	1	0	*	51	37	-	
PORTUGAL.	Yarmouth ...	29.75	42	S	2	cm	29.43	- .49	40	39	- 3	SSE	3	bc	3	49	38	-	
	Cuxhaven ...	29.88	35	WSW	2	S	29.68	- .23	34	33	- 1	SSE	3	f	*	36	32	-	
	Berlin ...	29.85	34	WSW	2	0	29.78	- .11	33	32	- 2	SE	2	0	*	39	32	-	
	Wiesbaden ...	*	*	*	*	*	29.68	- .38	37	35	- 2	W	1	0	*	46	34	-	
	Munich ...	29.90	31	SW	0	bc	29.79	- .31	32	30	- 3	SW	3	b	*	43	27	-	
	The Helder ...	29.76	39	WSW	1	0	29.54	- .39	39	38	- 3	ESE	1	c	2	43	36	-	
	Brussels 9AM.	*	*	*	*	*	29.54	- .52	45	42	+ 3	SSW	5	0	*	51	40	-	
	Cape Gris Nez...	?	44	E	1	c	?	?	43	41	+ 1	SSW	4	0	2	46	41	-	
	Paris ...	29.77	47	SE	2	0	29.63	- .43	45	43	+ 4	SSW	2	0	*	55	3	-	
	Brest ...	29.68	49	SSE	4	0	29.48	- .50	50	49	+ 6	SW	5	0	6	56	41	-	
SPAIN.	Lorient ...	29.65	47	SSE	2	0	29.50	- .41	48	46	+ 4	SW	4	0	4	50	41	-	
	Rochefort ...	29.77	51	WSW	4	0	29.72	- .30	46	46	+ 9	S	4	T	2	55	25	9.20	
	Belfort ...	29.96	47	W	1	b	29.75	- .38	41	39	+ 16	W	1	b	*	52	23	-	
	Lyons ...	29.95	51	S	4	0	29.78	- .40	45	41	+ 15	S	4	c	*	60	?	-	
	Nice ...	30.06	48	SW	4	c	29.97	- .16	44	42	- 1	E	2	0	1	55	39	-	
	Perpignan ...	29.93	47	SW	0	0	29.79	- .34	43	41	+ 9	SW	0	0	*	55	2	-	
	Biarritz ...	29.80	65	SSW	4	0	29.71	- .22	53	47	+ 8	SW	4	0	2	68	2	0.12	
	Corunna ...	*	*	*	*	*													
	Lisbon ...	29.83	57	WSW	1	0	30.01	+ .10	51	48	- 1	WSW	3	b	*	61	?	-	

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, 19th March.

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 forces thus —
 * — force above 10; — force 8 to 10;
 — force 5 to 7; — force 1 to 4;
 ○ — dead calm.

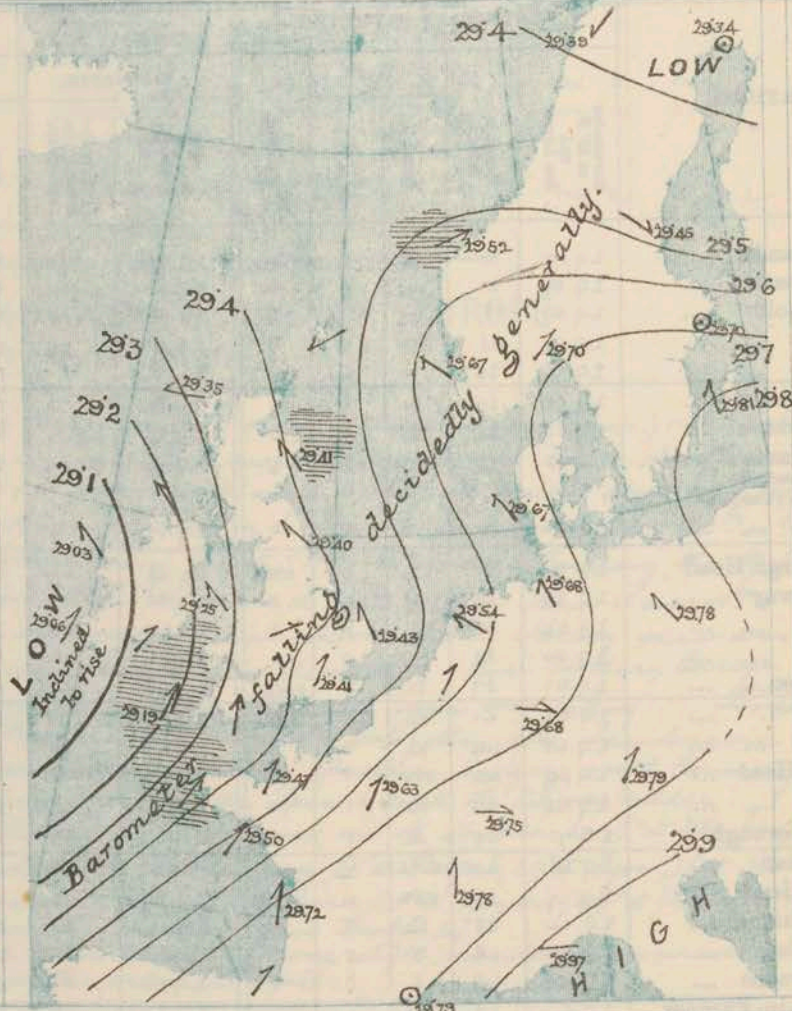
Sea Disturbance — where considerable, is shown thus.

— Rough — High

MEAN HEIGHT of the BAROMETER

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

STATIONS	MEAN READINGS
Sumburgh Head	29.751
Stornoway	29.779
Wick	29.797
Nairn	29.815
Aberdeen	29.830
Leith	29.862
Shields	29.896
York	29.925
Loughborough	29.948
Ardrossan	29.876
Donaghadee	29.892
Holyhead	29.919
Liverpool	29.925
Parsonstown	29.940
Valencia	29.988
Roche's Point	29.941
Pembroke	29.944
Scilly	29.956
Jersey	29.971
Hurst Castle	29.966
Dover	29.955
LONDON	29.967
Oxford	29.960
Cambridge	29.967
Yarmouth	29.938



TEMPERATURE, & WEATHER at 8 A.M., with RAINFALL in PAST 24 HOURS.

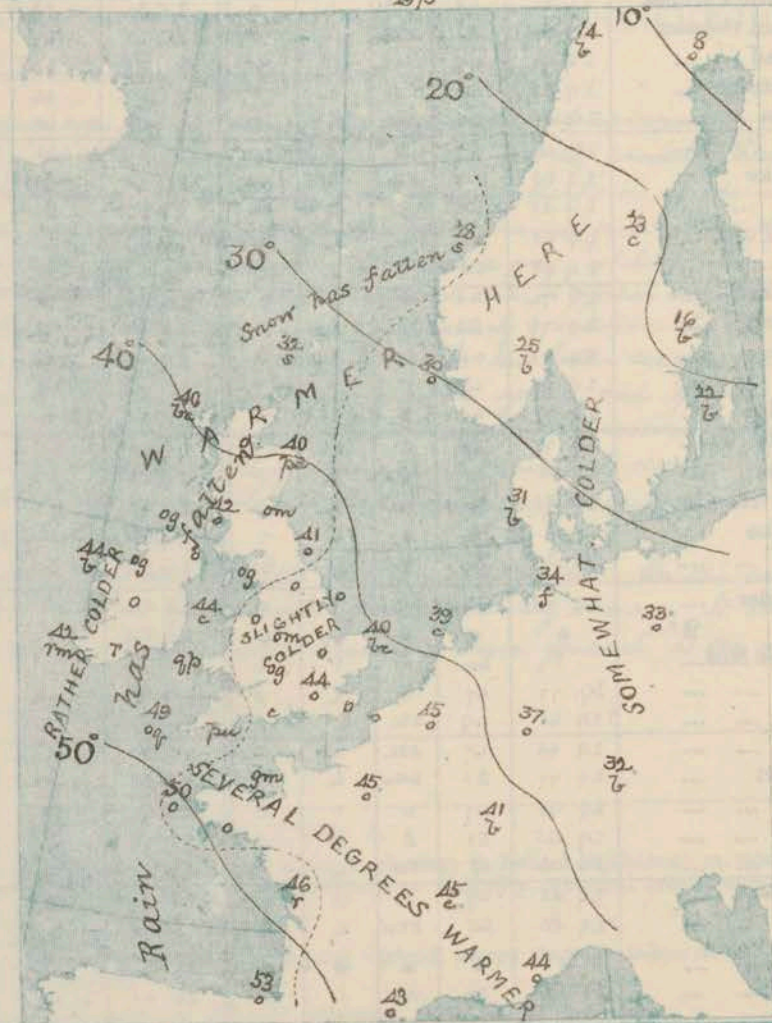
Temperature — Isotherms are drawn for each 10° changes since previous morning are stated in words.
Weather — is shown by Letters of the Beaufort Scale.
Rainfall — A dotted line separates the districts in which rain has fallen from those where there has been none. Falls of 0.5 in. or more, are quoted in figures.

MEANS OF TEMPERATURE IN SHADE.

AND RAINFALL
 for the month of March.

STATIONS	TEMPERATURE				RAINFALL (Inches)
	Daily Max	Daily Min	Day	Night	
Sumburgh Head	42.6	34.0	38.5	37.1	2.02
Stornoway	44.9	34.4	39.2	38.0	3.87
Wick	44.7	33.2	39.1	37.2	1.97
Nairn	45.6	34.2	38.2	36.3	1.72
Aberdeen	45.4	34.7	38.9	36.8	2.24
Leith	48.2	34.6	39.7	37.9	1.86
Shields	45.2	35.4	39.6	38.0	1.60
York	48.9	33.7	38.6	37.1	1.63
Loughborough	40.8	34.3	39.5	37.7	1.47
Ardrossan	46.8	26.6	40.5	35.7	2.59
Donaghadee	47.3	37.1	41.0	39.7	1.99
Holyhead	47.8	39.2	42.5	41.0	2.21
Liverpool	47.3	37.1	40.8	38.7	1.69
Parsonstown	50.1	35.5	41.2	39.6	2.35
Valencia	51.6	40.6	45.4	43.4	4.24
Roche's Point	50.2	40.0	43.8	42.1	3.71
Pembroke	47.1	39.5	42.6	40.8	2.45
Scilly	49.9	43.0	46.5	44.7	2.38
Jersey	49.9	40.5	44.7	42.7	2.32
Hurst Castle	48.3	37.7	41.6	40.7	1.80
Dover	46.9	37.8	41.6	39.9	1.86
LONDON	50.6	35.8	40.6	38.7	1.43
Oxford	49.5	35.2	39.4	37.9	1.52
Cambridge	50.6	33.2	39.2	37.7	1.33
Yarmouth	45.7	35.8	40.8	39.1	1.77

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



GENERAL SITUATION AT 8 A.M.

PRESSURE

Highest, 30.01 in: at Lisbon, 29.5 in: and upwards in the southeast of France.
Lowest, 29.1 in: and less, in the west and south of France; 29.4 in: and less, in the north of Scandinavia.
Gradient rather steep over the Bay of Biscay and the mouth of the Channel, but slight elsewhere.
Barometer still falling generally, but beginning to rise again at Valencia.

TEMPERATURE

Highest, 53° at Biarritz, 51° at Lisbon, 50° at Brest, 45° at Kelly, 44° at Orient and 47° at Jersey.
Lowest, 8° at Hafnarfjörður, 14° at Bordeaux, 16° at Stockholm, 22° at Malmö, 23° at Helsingfors, 25° at Faeröer, and 28° at Christiansund.

WIND

Light to fresh from the SEth over the northern and eastern parts of our islands and the eastern shore of the North Sea.
S. or SWth on our southern and the French coasts, moderate in force generally, but strong at the mouth of the Channel.
In Sweden and the south of France, calms or variable airs are reported.

WEATHER

Fine in Denmark, the south of Scandinavia, South Germany, and the east of France.
Cloudy elsewhere, with rain at several of the southwestern stations and snow at Christiansund and Dumburgh Head.
Rain fell yesterday at most of our western and northern stations.

SEA

Rather rough at the mouths of the English and Bristol Channels, as well as at Christiansund and Aberdeen, but slight or smooth elsewhere.

PROBABLE CHANGES IN SYSTEM NOW PREVALENT

The depression off the coast of Ireland seems likely to travel in a northeasterly or northerly direction, and the southeasterly winds on our northern coasts will probably increase somewhat in strength. Showery weather is likely to prevail in most districts.

FORECASTS

for the 24 hours ending at NOON on 20th March 1889.

DISTRICTS.

FORECASTS.

† 0	SCOTLAND NORTH	SE th winds, freshening; dull, some rain.
† 1	SCOTLAND EAST	
2	ENGLAND N.E.	
3	ENGLAND EAST	S th to SW th winds freshening; mild changeable, some showers.
4	MIDLAND COUNTIES	
5	ENGLAND SOUTH	

DISTRICTS.

FORECASTS.

† 6	SCOTLAND WEST	Same as No 0 to 2
7	ENGLAND N.W.	
8	ENGLAND S.W.	S th and SW th winds, strong; squally, showery.
† 9	IRELAND NORTH	S th winds, strong at times; changeable, some rain.
† 10	IRELAND SOUTH	

WARNINGS

The SOUTH CONE was hoisted last evening in districts 0, 1, 6, 9, and 10.

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

YESTERDAY'S 2 P.M. REPORTS.

	Bar.	Dry.	Wet.	Wind.	Wca.	Sea.		Bar.	Dry.	Wet.	Wind.	Wca.	Sea.
Skudesnaes ...	29.85	38	31	W SW 1	b	3	Holyhead ...	29.73	47	45	SSW 4	c y	3
Sumburgh Head ...	29.80	33	31	W SE 1	b	3	Valencia ...	29.82	51	48	SSW 5	o	5
Stornoway ...	29.63	39	39	SE 5	r	5	Scilly ...	29.67	48	46	SSW 6	o	4
Aberdeen ...	29.75	36	36	SE 4	o g r s	5	Jersey ...	29.83	50	45	SSW 3	c	3
Shields ...	29.71	48	44	W 1	o	2	Dungeness ...	29.87	48	45	W 4	b c	2
Ardrossan ...	29.68	45	44	W 0	o	0	London ...	29.84	48	42	SSW 3	o	*
Malin Head ...	29.58	47	44	S 4	o	2	Yarmouth ...	29.82	47	44	W 1	c	2
Mullaghmore ...	29.50	49	45	SE 5	o g	3	Rocheport ...	29.88	55	49	SE 4	o	2
Belmullet ...	29.52	51	49	S 5	o	*							

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

The reports for yesterday morning showed that the high pressure area noticed over France on Sunday had continued to move southwards, and that reading ranged from 30.3 ins. and more over Algeria, and from between 30.10 ins. and 30.25 ins. over the Mediterranean and south of France to rather below 29.7 ins. off the west of Ireland and to between 29.1 ins. and 29.7 ins. over the whole of Northern Europe, the eastern half of the Baltic and Central Russia. Thus, while S³ and SE³ winds prevailed on the coasts of Great Britain, the west of France and the Spanish Peninsula, NN³ winds were felt on the eastern shores of the North Sea, W³ over Germany, calms and NW³ airs over the Gulfs of Bothnia and Finland and variable airs over Russia. In the Mediterranean also the wind was very light and variable—except at Malta where it was strong from WSW. Temperatures had fallen again in the north and northwest, but the sudden rise observed over the British Isles and the Baltic on the previous day had spread southwards and eastwards to Southern and South Eastern Europe and to Central Russia. In the north of Russia the thermometer was still very low, and frost continued both there, in Scandinavia, the Fietlands, Poland, and Hungary, as well as over some of the southeastern parts of France; from other places it had disappeared. The lowest morning readings were 4° F. at Llesborg, 6° at Staparanda, 8° along the shores of the Gulf of Finland, at Kuopio, and also at Nicolaieff, 11° at Riga, 16° at Kharkov, 26° or 27° on the coast of Norway, 28° at Hermanstadt and Warsaw; the highest were 55° at Girona and Bilbao, 50° to 54° on the southern shores of the Mediterranean, 52° at Lisbon, 50° at Belmullet, 48° at Valencia and 48° at Scilly. In London the temperature was 43° at Brussels 42°, at Paris 41°, at Madrid 40°, and at Berlin 35°.

Later on the barometer continued to fall briskly over the British Isles and the wind on our southwest coast increased to a strong breeze from Snd. Rain fell in the west and north generally.

EXPLANATION OF COLUMNS GIVEN ON PAGE 1.

WEATHER.—Beaufort Scale is b. blue sky; c. detached clouds; d. drizzling rain; f. fog; g. dark, gloomy; h. hail; l. lightning; m. misty (hazy); o. overcast; p. passing showers; q. squally; r. rain; 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 6 p.m. in France and our Islands with the exception of Oxford, where they are taken at 8 p.m. In Sweden and Denmark, the observations are taken at 8 p.m. (Christiania time).

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DAILY WEATHER REPORT.

for Wednesday 20th March 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.	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 ..	29.41	23	W	0	bc	29.33	-0.01	23	23	-11	S	2	o	*	16	-4	—		
Hernösand ...	29.46	21	W	0	bc	29.42	-0.03	13	12	-10	W	0	bc	*	16	?	—		
Stockholm ...	29.60	43	SW	2	bc	29.52	-0.18	21	20	+5	W	0	bc	*	9	10	—		
Wisby ...	29.71	24	SW	4	bc	29.54	-0.27	27	26	+5	E	4	c	*	?	18	—		
Bodö ...	29.25	26	WSW	3	c	29.07	-0.22	23	22	+9	WSW	4	o	2	1	14	—		
Christiansund...	29.45	28	SW	4	S	29.37	-0.15	28	27	0	WSW	3	S	4	28	25	—		
Skudesnaes ...	29.72	32	SE	4	o	29.35	-0.22	29	28	-1	NNE	4	S	3	26	28	—		
Christiana Fjord (Færdar)	29.51	30	WSW	2	bc	29.43	-0.27	27	26	+2	ESE	2	S	1	30	28	—		
Skagen (The Scaw)	29.50	31	S	3	o	29.32	-0.36	28	26	0	SE	3	o	2	22	28	—		
Fanö ...	29.39	33	SE	5	o	29.17	-0.50	34	34	+3	SE	4	n	*	29	?	—		
BRITISH ISLANDS.																			
Sumburgh Head	29.29	32	ENE	4	S	29.40	-0.13	33	32	+1	NNE	4	c	5	34	31	0.04		
Stornoway ...	29.28	42	E	6	n	29.36	+0.01	37	37	-3	NW	7	S	6	44	34	0.08		
Wick ...	29.23	38	W	0	o	29.30	-0.10	36	35	-4	ESE	8	ow	6	45	35	0.35		
Nairn ...	29.21	340	SW	1	n	29.21	-0.15	38	37	+1	ENE	5	o	5	41	36	0.28		
Aberdeen...	29.28	38	E	3	ogz	29.14	-0.27	40	38	0	NW	7	ogz	6	41	37	0.53		
Leith ...	29.13	41	E	1	o	29.01	-0.25	40	39	-1	ENE	6	oz	*	44	38	0.22		
Shields ...	29.15	41	ESE	3	o	29.03	-0.37	41	40	0	NW	2	n	3	42	38	0.89		
Spurn Head ...	29.12	43	ESE	4	n	29.06	-0.63	39	38	-2	SW	7	n	5	44	36	0.45		
York ...	29.12	48	ESE	1	n	29.06	-0.61	37	37	-4	E	1	n	*	52	36	0.45		
Loughborough	29.10	46	ESE	3	n	29.05	-0.33	41	40	0	WSW	4	n	*	54	37	0.89		
Ardrossan ...	29.07	44	NE	3	n	29.08	-0.32	41	40	-1	NNE	5	n	2	46	39	0.08		
Malin Head ...	29.02	41	E	5	om	29.08	-0.11	41	39	-1	NNE	7	og	5	44	40	0.22		
Mullaghmore ...	29.00	42	ESE	5	c	29.07	-0.05	43	41	-1	NNE	7	og	5	45	39	0.37		
Belmullet ...	29.01	42	ENE	3	o	29.14	+0.11	42	42	-2	NE	8	n	*	46	37	0.37		
Donaghadee ...	29.02	45	SE	3	o	29.07	-0.28	42	41	-1	NE	7	n	5	45	39	0.62		
GERMANY.																			
Barrow-in-Furness	29.02	44	ENE	3	n	29.08	-0.34	39	39	-2	NE	2	n	*	48	38	0.49		
Liverpool (Ridston)	29.02	45	SE	1	o	29.00	-0.31	40	39	0	W	5	o	3	51	40	0.51		
Holyhead ...	29.09	44	ESE	4	o	29.08	-0.37	40	40	-4	NNE	5	og	4	49	40	0.25		
Parsonstown ...	29.05	44	W	0	c	29.01	-0.10	36	35	-8	W	0	n	*	48	29	0.19		
Valencia ...	29.06	45	WSW	1	c	29.02	-0.04	43	41	+1	NNE	5	n	5	49	39	0.52		
Roche's Point...	29.07	45	WSW	4	bc	29.07	-0.12	38	35	-6	NNE	3	bc	4	50	38	0.25		
Pembroke ...	29.07	43	S	3	c	29.04	-0.16	44	42	-2	WSW	4	bc	4	48	41	0.07		
Scilly ...	29.02	46	WSW	5	bc	29.06	-0.23	46	43	-3	WSW	3	bc	6	52	42	0.20		
Prawle Point ...	29.00	44	SW	6	c	29.08	-0.35	44	42	-1	SW	5	omg	4	47	38	0.20		
Jersey ...	29.15	48	S	5	ogmt	29.11	-0.36	45	42	-2	SW	6	bc	5	51	43	0.16		
FRANCE & NETHERLANDS.																			
Hurst Castle ...	29.09	46	SW	6	bc	29.03	-0.37	45	44	-2	SW	6	cpd	5	49	41	0.46		
Dungeness ...	29.23	45	S	5	c	29.05	-0.35	43	42	0	SW	6	n	5	49	42	0.10		
London ...	29.14	47	S	4	oz	29.01	-0.40	45	43	+1	SW	2	bc	*	55	40	0.20		
Oxford ...	29.06	46	S	2	n	29.06	-0.44	42	40	+1	SW	3	bc	*	52	39	0.37		
Cambridge ...	29.07	48	S	1	o	29.05	-0.45	43	41	+2	S	2	o	*	53	38	0.08		
Yarmouth ...	29.25	45	S	3	c	29.07	-0.46	44	43	+4	WSW	5	c	4	46	39	0.03		
Cuxhaven ...	29.49	38	SE	3	bc	29.23	-0.45	40	39	+6	S	2	c	*	40	?	—		
Berlin ...	29.54	38	SE	2	bc	29.29	-0.39	40	39	+7	S	2	o	*	41	?	—		
Wiesbaden ...	*	*	*	*	*	29.33	-0.35	44	43	+7	ESE	1	n	*	48	?	0.04		
Munich ...	29.63	25	W	0	c	29.46	-0.23	38	35	+6	ESE	3	o	*	52	32	—		
PENINSULA.																			
The Helder ...	29.20	44	ESE	1	o	29.09	-0.45	41	40	+2	SW	3	bc	3	46	39	0.08		
Brussels ...	29.20	*	*	*	*	29.20	-0.34	44	41	-1	WSW	4	o	*	52	42	0.08		
Cape Gris Nez...	?	50	S	4	bc	?	?	42	37	-1	SW	5	c	5	52	41	—		
Paris ...	29.43	52	SW	3	bc	29.31	-0.32	43	41	-2	SW	3	o	*	54	42	0.28		
Brest ...	29.23	46	W	6	o	29.15	-0.33	47	45	-3	WSW	5	o	8	50	41	0.47		
Lorient ...	29.24	47	WSW	6	bc	29.14	-0.36	46	43	-2	WSW	5	o	6	52	43	0.32		
Boulogne ...	29.50	51	S	4	o	29.43	-0.23	47	45	+1	SW	5	c	2	53	41	0.28		
Beaufort ...	29.54	45	W	2	f	29.45	-0.30	41	41	0	W	1	n	*	54	36	0.20		
Lyons ...	29.67	46	ESE	4	n	29.45	-0.33	48	44	+3	S	3	o	*	53	40	0.04		
Nice ...	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*		
Perpignan ...	29.68	52	ENE	2	o	29.52	-0.27	45	43	+2	SW	1	o	*	61	41	—		
Biarritz ...	29.52	61	WSW	6	o	29.48	-0.23	48	44	-5	WSW	5	o	5	66	43	0.28		
Corunna ...	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*		
Lisbon ...	29.95	33	SW	6	c	29.88	-0.13	53	49	+2	WSW	4	o	4	59	?	0.55		

WEATHER CHARTS

for 8 a.m. on

Wednesday, 20th March

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 4 to 5;
○ = dead calm.

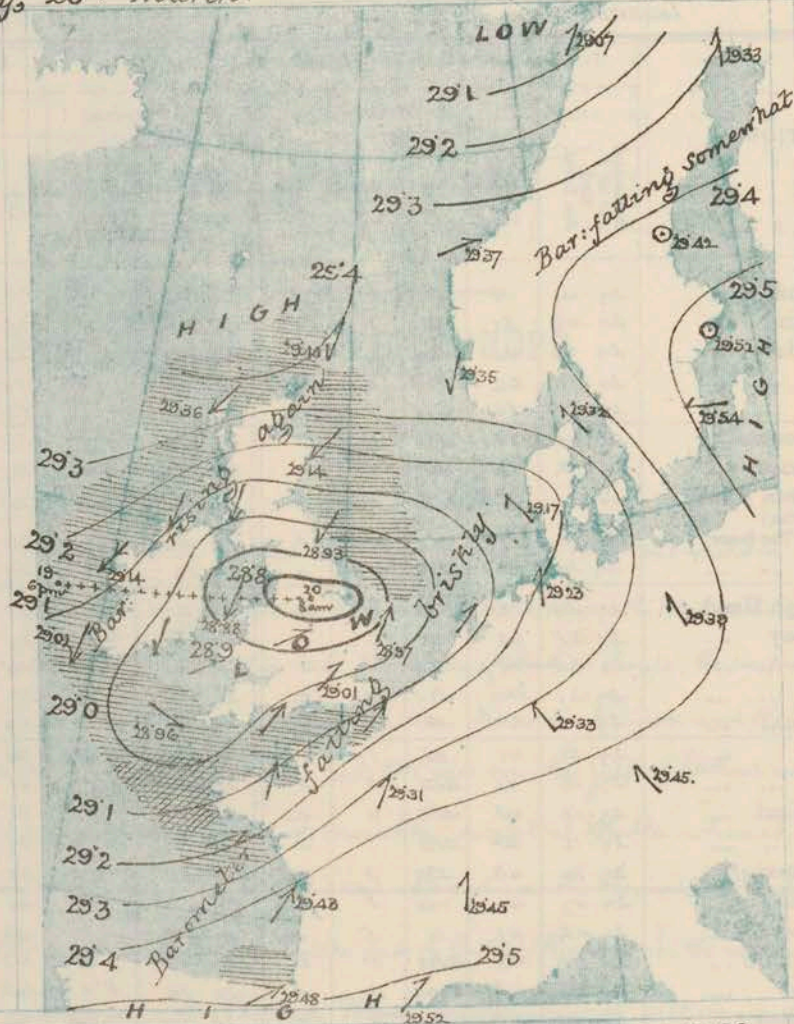
Sea Disturbance — when considerable is shown thus.

— = Rough; — = High

MEAN HEIGHT of the BAROMETER

at 6 a.m. for the month of March
During the 15 Years 1871-1885.

STATIONS	MEAN READINGS.
Samburgh Head	29.751
Stornoway	29.779
Wick	29.797
Nairn	29.816
Aberdeen	29.830
Leith	29.862
Shields	29.896
York	29.926
Loughborough	29.948
Ardrossan	29.876
Dunghadde	29.892
Holyhead	29.919
Liverpool	29.925
Parsonstown	29.940
Valencia	29.938
Roche's Point	29.941
Pembroke	29.944
Scilly	29.966
Jersey	29.971
Hurst Castle	29.966
Dover	29.955
LONDON	29.967
Oxford	29.966
Cambridge	29.957
Yarmouth	29.938



TEMPERATURE, & WEATHER at 8 A.M., with RAINFALL in PAST 24 HOURS.

Temperature — Isotherms are drawn for each 10° changes since previous morning are stated in words.

Weather — is shown by Letters of the Beaufort Scale.

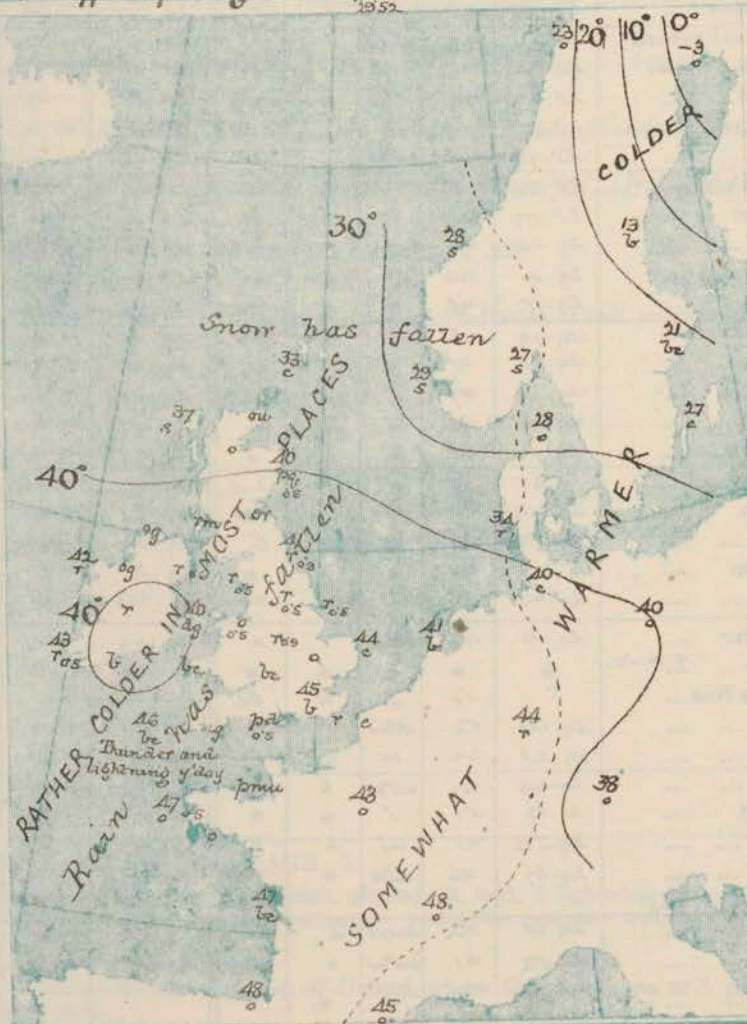
Rainfall — A dotted line separates the districts in which rain has fallen from those where there has been none. Falls of 0.1 in. or more, are quoted in figures.

MEANS OF TEMPERATURE IN SHADE.

AND RAINFALL.
for the month of March.

STATIONS	TEMPERATURE				RAINFALL (Inches)
	Daily Max.	Daily Min.	Dry at 8 a.m.	Wet	
Samburgh Head	42.6	34.0	38.5	37.1	2.92
Stornoway	44.9	34.4	39.2	38.0	3.87
Wick	44.7	33.9	39.1	37.2	1.97
Nairn	45.6	34.2	38.2	36.3	1.72
Aberdeen	45.4	34.7	38.9	36.8	2.24
Leith	48.2	34.6	39.7	37.0	1.36
Shields	45.9	35.4	39.6	38.0	1.60
York	48.9	33.7	38.6	37.1	1.63
Loughborough	49.8	34.3	39.5	37.7	1.47
Ardrossan	46.8	36.6	40.5	38.7	2.59
Dunghadde	47.3	37.1	41.0	39.7	1.99
Holyhead	47.6	39.2	42.5	41.0	2.21
Liverpool	47.3	37.1	40.8	38.7	1.69
Parsonstown	50.1	35.5	41.2	39.6	2.35
Valencia	51.6	40.6	45.4	43.4	4.24
Roche's Point	50.2	40.0	43.8	42.1	3.71
Pembroke	47.1	39.5	42.6	40.8	2.45
Scilly	49.9	43.0	46.5	44.7	2.38
Jersey	49.9	40.6	44.7	42.7	2.32
Hurst Castle	48.3	37.7	41.6	40.7	1.80
Dover	46.9	37.8	41.6	39.9	1.86
LONDON	50.6	35.8	40.6	38.7	1.43
Oxford	49.5	35.2	39.4	37.9	1.52
Cambridge	50.6	33.3	39.2	37.7	1.33
Yarmouth	45.7	35.8	40.8	39.1	1.77

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



GENERAL SITUATION AT 8 A.M.

PRESSURE

Highest, 29.8 in: and upwards, over the south of Portugal; 29.5 in: and upwards, over the south of Sweden; 29.4 in: and upwards, to the northward of Scotland. Lowest, 28.8 in: and less, in a depression lying over the north of England; 29.1 in: and less, in another disturbance which is approaching the NW. of Norway. Gradients rather steep over our islands and the north of France — for E. winds in the north, and for SW winds in the south. Barometer rising in Ireland and Scotland, but falling elsewhere.

TEMPERATURE

Highest, 53° at Lisbon, 48° at Biarritz and Lyons, 47° at Krist and Rostock, and 46° at Shelly and Lorient. Lowest, -3° at Haparanda, +13° at Helsingfors, 21° at Stockholm, 23° at Rode, and 27° at Viki, and Tander.

WIND

Strong to gale from E. or NE. over Scotland and the north of Ireland, moderate to fresh from NE. in the northwest of England and south of Ireland. Fresh or strong from the SW. over the Channel and Bay of Biscay. Moderate from E. over Denmark and Germany, and from SW. in the north of Scandinavia.

WEATHER

Foggy over the south of Scotland and the northern part of Ireland and England, and showery at most of our southern stations. Snow is falling in Norway and also in the Hebrides, but in Sweden the weather is at present fine. Since yesterday morning 0.5 in. of rain has fallen at Dronghader, and 0.9 in. at Shille and Loughboro. Thunder and lightning were experienced in the latter part of the day.

SEA

Moderate in the St. George's Channel and off the northwest of England, but rough or rather so elsewhere.

PROBABLE CHANGES IN SYSTEM NOW PREVALENT

The depression over the north of England will probably move slowly backwards, but the general appearance remains very unsettled. Some further increase of wind is likely to occur on our northern coast, with a continuance of showery weather in most districts.

FORECASTS

for the 24 hours ending at NOON on 21st March 1889.

DISTRICTS.

- 10 SCOTLAND NORTH
- 11 SCOTLAND EAST
- 2 ENGLAND N.E.
- 3 ENGLAND EAST
- 4 MIDLAND COUNTIES
- 5 ENGLAND SOUTH

FORECASTS.

10 and 11 E. and NE. gales and strong winds; squally; some rain or sleet.
2 Variable breezes, finally NE.; unsettled, rain at times.
3, 4, 5 SW. winds, fresh or strong; squally, showery.

DISTRICTS.

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

FORECASTS.

6 NE. strong winds or gales, squally, some rain or sleet.
7 NE. and N. winds, freshening; squally, some rain.
8 SW. and W. winds, strong, squally, showery.
9 Same as No. 6 and 1.
10 Same as No. 7.
The signals are still flying in districts 6, 7, 9, and 10.

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 ...	29.57	35	31	SE 4	0	3	Holyhead ...	29.08	48	46	SE 5	c f	4
Sumburgh Head ...	29.44	32	32	ENE 4	5	4	Valencia ...	29.99	47	44	W 3	c f	3
Stornoway ...	29.27	44	43	E 4	6	4	Scilly ...	29.07	47	42	W 4	r	4
Aberdeen ...	29.30	41	40	ENE 2	0 2 2	5	Jersey ...	29.20	49	47	S 5	0	4
Shields ...	29.24	42	41	ENE 2	0	3	Dungeness ...	29.35	45	44	SW 4	0	3
Ardrossan ...	29.15	46	43	ENE 2	0	2	London ...	29.30	50	48	S 2	c f	*
Malin Head ...	29.09	43	41	ENE 5	0	3	Yarmouth ...	29.32	44	42	S 2	c m	3
Mullaghmore ...	29.99	43	41	E 5	0 2 2	4	Rocheport ...	29.67	54	52	SW 6	bc	3
Belmullet ...	29.99	45	44	E 3	0	*							

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

The reports for yesterday morning showed some increase of pressure over northeastern and Central Europe, but a further considerable fall in the west, and at the time of observation readings varied from between 30.0 in. and nearly 30.2 in. over the south of Spain and all the southern and southeastern shores of the Mediterranean, to rather below 29.7 in. over Central Russia, to about 29.3 in. over Lapland, and to 29.1 in. and less off the west of Ireland; towards the last named district a depression was advancing from the West.

Strong S² (SW to SE) winds were reported on the Atlantic coast, of the British Isles and the Continent, accompanied by mild dull weather and in several places rain; at the inland stations the wind was more moderate, and the weather fair, while over Russia, Poland, and a great part of Austria the wind was light and the weather fine and bright. Temperature had risen over southwestern and southern Europe, fallen generally elsewhere, and hard frost still prevailed at the stations in Poland, Russia, and Lapland. The lowest morning readings were -3° F. at Archangel, -1° at St. Petersburg, +5° at Uleaborg and Moscow, 8° at St. Petersburg, 10° at Helsinki, 11° at Riga and Kiev, 11° at Mennel, 14° at Bodo, 17° at Narvik, and 31° at Breslau and Kuda-Kud; the highest were 62° to 63° on the Algerian coast, 60° at Bilbao, 55° at Comuna, 51° at Barcelona, Sanquian and Valencia, 50° at Trieste, and 49° at Killy and Florence. At Madrid the temperature was 46°, at Paris and Brussels 45°, in London 44°, and at Berlin and Vienna 33°.

Later on the depression in the west advanced eastwards over the United Kingdom, and grew deeper, while the weather became wet, squally and unsettled.

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 *Thursday, 21st March, 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 ..	29.23	11	20	0	bc	29.36	+ 03	- 2	- 2	+ 1	20	0	f	*	16	- 8	.	
	Hernösand ...	29.34	15	20	0	b	29.46	+ 04	9	9	- 4	20	0	bc	*	36	7	.	
	Stockholm ...	29.33	26	ENE	2	S	29.29	- 23	25	24	+ 4	N	6	S	*	36	14	0.28	
	Wisby ...	29.28	31	SE	4	S	29.25	- 29	32	32	+ 5	NW	4	O	*	?	18	0.16	
	Bodö ...	29.18	23	N	6	bc	29.36	+ 20	27	25	+ 4	W	4	C	2	?	19	.	
	Christiansund...	29.41	27	N	4	S	29.57	+ 20	26	24	- 2	SW	2	b	3	28	21	0.12	
	Skudesnaes ...	29.29	31	NW	6	b	29.50	+ 15	27	24	- 2	N	2	bc	2	39	25	.	
	Christiania Fjord (Fjorder)	29.28	28	NNE	4	S	29.43	00	25	23	- 2	NNE	5	b	2	28	21	.	
	Skagen (The Scaw)	29.08	29	E	6	O	29.29	- 03	27	27	- 1	ESE	6	O	4	30	27	0.20	
	Fanö ...	29.18	35	SW	1	C	29.30	+ 13	31	30	- 3	NNE	4	C	*	41	30	0.32	
	Sumburgh Head	29.50	30	N	3	C	29.68	+ 28	30	27	- 3	N	1	b	3	35	27	.	
	Stornoway ...	29.59	35	NE	5	C	29.80	+ 44	32	31	- 5	N	4	S	4	38	29	0.06	
	Wick ...	29.52	34	E	5	O	29.73	+ 43	32	31	- 4	N	3	O	4	38	29	0.06	
	Nairn ...	29.47	36	NNE	6	O	29.74	+ 53	33	31	- 5	ESE	3	C	3	38	31	0.06	
	Aberdeen...	29.40	35	NNE	8	opqsh	29.71	+ 57	33	32	- 7	NW	4	opqsp	6	40	31	0.05	
	Leith ...	29.28	38	NE	7	O	29.69	+ 68	35	32	- 5	N	2	e	*	40	32	0.12	
	Shields ...	29.06	37	NE	8	r	29.56	+ 73	37	34	- 4	NE	5	O	7	42	34	0.48	
	Spurn Head ...	28.91	40	WSW	3	C	29.40	+ 64	38	35	- 1	NNE	8	O	6	41	35	0.81	
	York ...	28.88	39	W	1	r	29.49	+ 73	37	34	0	NE	4	O	*	45	37	0.41	
	Loughborough	28.97	39	NW	2	O	29.42	+ 57	35	34	- 6	NNE	5	O	*	49	34	0.14	
BRITISH ISLANDS.	Ardrossan ...	29.32	40	NNE	7	bc	29.74	+ 76	37	33	- 4	N	2	b	1	42	31	.	
	Malin Head ...	29.40	40	NNE	6	b	29.77	+ 69	36	35	- 5	N	5	opqsp	4	42	35	.	
	Mullaghmore ...	29.43	42	N	7	C	29.81	+ 74	39	34	- 4	NNE	6	C	5	45	36	.	
	Belmullet ...	29.48	42	NNE	8	O	29.87	+ 73	39	39	- 3	N	6	bc	*	43	34	0.16	
	Donaghadee ...	29.31	41	NNE	7	C	29.73	+ 76	38	35	- 4	NNE	6	bc	5	50	37	0.06	
	Barrow-in-Furness	29.09	39	N	6	O	29.59	+ 81	36	33	- 3	NE	4	bc	*	45	35	.	
	Liverpool (Bidston)	29.07	40	N	6	C	29.56	+ 76	37	33	- 3	NNE	5	C	4	43	34	0.07	
	Holyhead ...	29.14	40	NE	8	opqj	29.62	+ 74	38	35	- 2	NNE	7	Cqj	6	43	37	0.09	
	Parsonstown ...	29.32	43	Z	0	C	29.77	+ 76	36	33	0	NW	3	O	*	45	34	0.05	
	Valencia ...	29.37	46	N	5	om	29.84	+ 82	42	37	- 1	N	4	C	4	46	39	0.02	
	Roche's Point...	29.25	43	NNE	5	cp	29.75	+ 78	39	35	+ 4	NNE	4	C	4	45	37	0.08	
	Pembroke ...	29.05	43	N	6	O	29.54	+ 60	39	35	- 5	N	7	Cqj	4	46	36	0.03	
	Scilly ...	29.06	46	NW	6	bc	29.48	+ 52	43	39	- 3	N	9	Oqj	6	52	39	0.05	
	Prawle Point ...	29.02	44	W	2	bc	29.34	+ 36	37	36	- 7	N	6	opqm	2	47	35	0.11	
	Jersey ...	29.04	45	NW	3	bc	29.26	+ 15	42	40	- 3	NW	4	opqmc	4	50	40	0.17	
	Hurst Castle ...	29.00	43	WSW	5	C	29.27	+ 24	40	39	- 5	N	4	Cqj	4	47	38	0.11	
	Dungeness ...	29.02	44	SW	6	C	29.18	+ 13	41	41	- 2	N	2	m	1	49	41	0.10	
	London ...	28.99	46	SW	3	C	29.23	+ 22	39	38	- 6	NNE	1	or	*	54	39	0.22	
	Oxford ...	29.03	42	NW	2	O	29.33	+ 37	35	34	- 7	N	5	Sqj	*	51	35	0.15	
	Cambridge ...	28.99	45	SSW	1	C	29.32	+ 37	37	37	- 6	N	4	r	*	54	36	0.27	
	Yarmouth ...	28.90	44	SSW	4	C	29.27	+ 30	38	37	- 6	NE	6	opqj	6	48	36	0.05	
	Cuxhaven ...	29.19	42	S	1	r	29.21	- 02	38	37	- 2	E	1	m	*	43	36	0.10	
	Berlin ...	29.30	44	Z	0	b	29.25	- 14	42	41	+ 2	N	1	r	*	52	?	0.20	
	Wiesbaden ...	*	*	*	*	*	29.30	- 03	40	39	- 4	SW	2	O	*	48	39	0.04	
	Munich ...	29.22	37	SW	2	O	29.36	- 10	36	35	- 2	SW	3	C	*	56	32	0.24	
FRANCE & NETHERLANDS.	The Helder ...	29.14	42	ESE	1	b	29.25	+ 16	40	39	- 1	E	1	C	1	48	39	0.04	
	Brussels ...	*	*	*	*	*	29.21	+ 01	42	41	- 2	SSE	2	r	*	50	40	0.08	
	Cape Gris Nez...	?	44	SW	4	C	?	?	42	41	0	W	1	O	1	50	41	.	
	Paris ...	29.17	50	SSW	3	O	29.24	- 07	41	40	- 2	SSE	1	bc	*	56	37	.	
	Brest ...	? 29.13	48	SE	1	r	? 29.45	+ 30	43	41	- 4	NW	6	O	6	52	39	0.28	
	Lorient ...	29.11	48	W	3	C	29.80	+ 16	42	41	- 4	NW	5	T	7	50	41	0.12	
	Roche fort ...	29.30	47	WSW	6	r	29.26	- 17	47	46	0	NW	6	C	3	52	39	0.51	
	Belfort ...	29.37	34	W	1	O	29.35	- 10	40	40	- 1	W	1	r	*	41	30	0.32	
	Lyons ...	29.43	40	E	1	C	29.37	- 08	42	39	- 6	S	3	C	*	50	37	0.28	
	Nice ...	29.39	50	NW	6	C	29.38	- 08	45	38	- 6	NNE	4	b	2	52	41	0.24	
	Perpignan ...	29.45	52	S	1	O	29.47	- 05	40	38	- 5	NW	2	b	*	61	36	0.20	
	Biarritz ...	? 29.44	53	NW	2	bc	? 29.45	- 03	46	44	- 2	WSW	7	rlqj	7	66	43	0.24	
PENINSULA.	Corunna ...	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	
	Lisbon ...	29.85	51	WSW	4	r	? 29.43	+ 05	51	48	- 2	W	4	b	5	50	48	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

Thursday, 21st March

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.

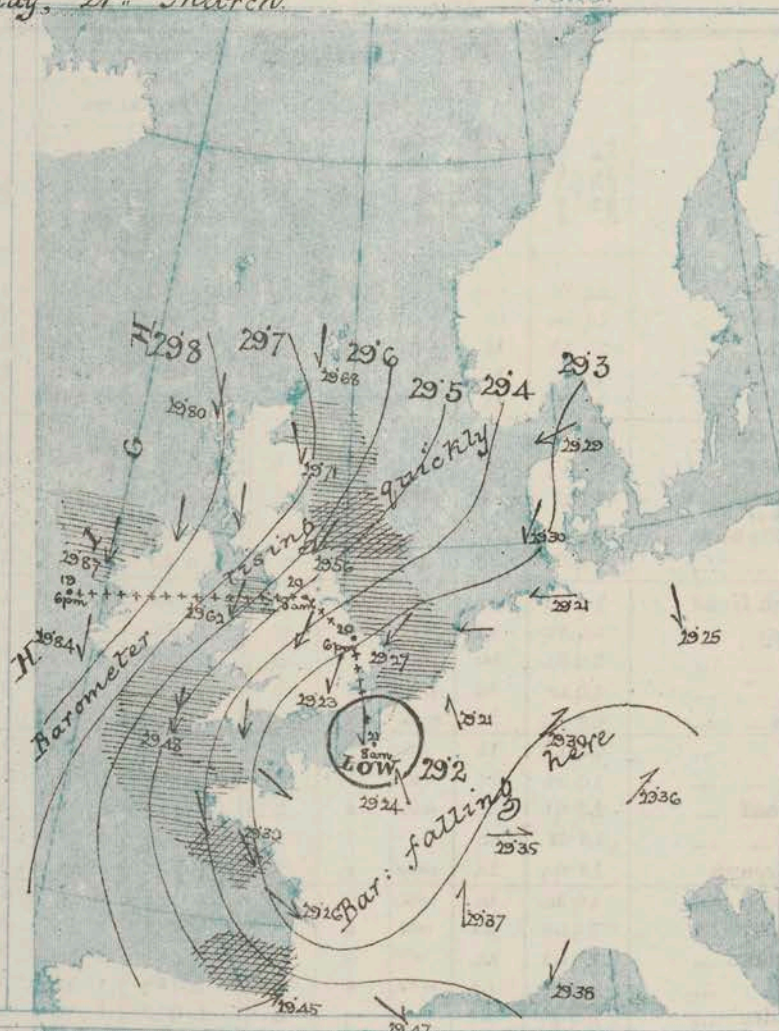
Sea Disturbance—where considerable, is shown thus.

■ = Rough, ■ = High.

MEAN HEIGHT of the BAROMETER.

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

STATIONS.	MEAN READINGS
Sumburgh Head	29.751
Stornoway	29.779
Wick	29.797
Nairn	29.815
Aberdeen	29.830
Leith	29.862
Shields	29.896
York	29.925
Loughborough	29.948
Ardrossan	29.876
Donaghadee	29.892
Holyhead	29.919
Liverpool	29.925
Parsonstown	29.940
Valencia	29.938
Roche's Point	29.941
Pembroke	29.944
Scilly	29.966
Jersey	29.971
Hurst Castle	29.966
Dover	29.955
LONDON	29.987
Oxford	29.960
Cambridge	29.967
Yarmouth	29.938



TEMPERATURE, & WEATHER at 8 A.M.

with RAINFALL in PAST 24 HOURS.

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

Weather—is shown by Letters of the Beaufort Scale.

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

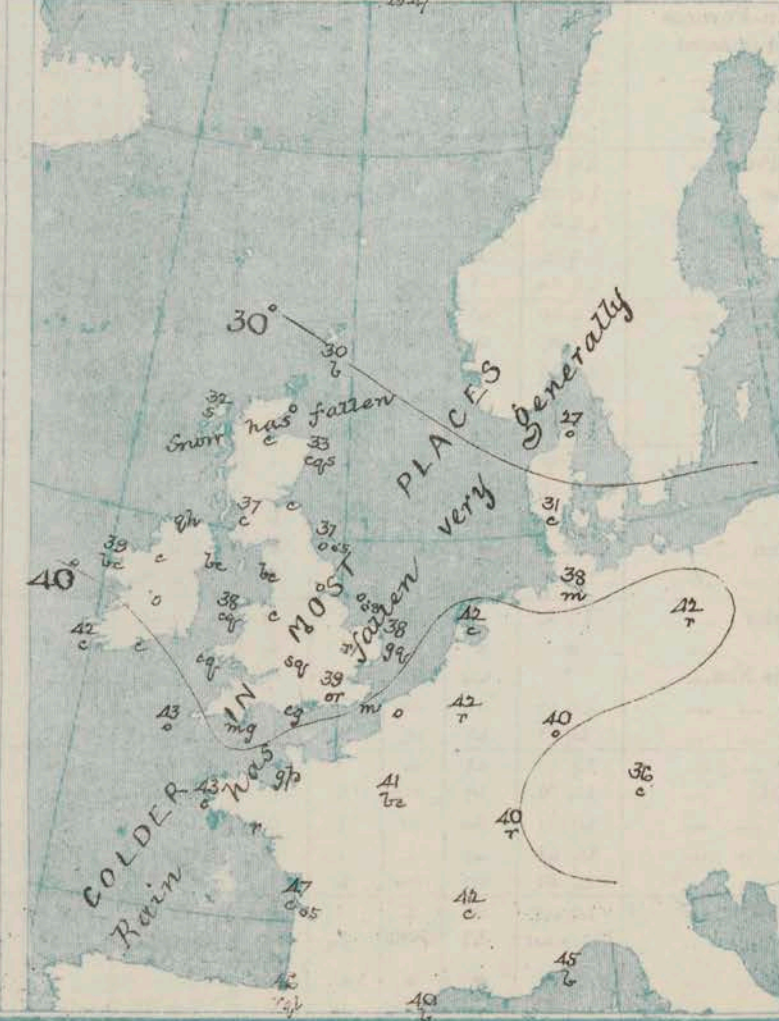
MEANS OF TEMPERATURE IN SHADE.

AND RAINFALL.

for the month of March.

STATIONS	TEMPERATURE.				RAINFALL. (Inches.)
	Daily Max.	Daily Min.	at 8 a.m.		
			Dry	Wet	
Sumburgh Head	42.6	34.0	38.5	37.1	2.32
Stornoway	44.9	34.4	39.2	38.0	3.87
Wick	44.7	33.9	39.1	37.2	1.97
Nairn	45.6	34.2	38.2	36.3	1.72
Aberdeen	45.4	34.7	38.9	36.8	2.24
Leith	48.2	34.6	39.7	37.9	1.86
Shields	45.0	35.4	39.6	38.0	1.60
York	48.9	33.7	38.6	37.1	1.63
Loughborough	49.8	34.3	39.5	37.7	1.47
Ardrossan	46.8	36.6	40.6	38.7	2.59
Donaghadee	47.3	37.1	41.0	39.7	1.99
Holyhead	47.6	39.2	42.5	41.0	2.21
Liverpool	47.3	37.1	40.8	38.7	1.69
Parsonstown	50.1	35.5	41.2	39.6	2.35
Valencia	51.6	40.6	45.4	43.4	4.24
Roche's Point	50.2	40.0	43.8	42.1	3.71
Pembroke	47.1	39.5	42.6	40.8	2.45
Scilly	49.9	43.0	46.5	44.7	2.39
Jersey	49.9	40.5	44.7	42.7	2.32
Hurst Castle	48.3	37.7	41.6	40.7	1.80
Dover	46.9	37.8	41.6	39.9	1.86
LONDON	50.6	35.8	40.6	38.7	1.43
Oxford	49.5	35.2	39.4	37.9	1.52
Cambridge	50.6	33.3	39.2	37.7	1.33
Yarmouth	45.7	35.8	40.8	39.1	1.77

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



GENERAL SITUATION AT 8 A.M.

PRESSURE	<p>Highest, 29.9 in. and upwards, over the south of Portugal, 29.8 in. and upwards in the west of Ireland.</p> <p>Lowest, 29.2 in. and less, in a depression lying over the northeast of France; 29.3 in. and less, over the coasts of Denmark, the Baltic, the Netherlands, and the northern part of France and Germany.</p> <p>Gradient rather steep over England and its immediate neighbourhood, but moderate or slight elsewhere.</p> <p>Barometer rising in all localities excepting the south of Sweden, North Germany, and the east of France - quickly on our western coasts.</p>
TEMPERATURE	<p>Highest, 51° at Lisbon, 47° at Rochefort, 46° at Biarritz, 45° at Nice, 43° at Seilly and Brest, and 42° at Valencia, Jersey, Genoa, and Lyons.</p> <p>Lowest, -2° at Haparanda, +9° at Helsingfors, 25° at Stockholm and Frederik, 26° at Christiania, and 27° at Riga and Skagen.</p> <p>Frost was experienced last night in Scotland.</p>
WIND	<p>Strong from the NE. over the southern parts of the North Sea, with a gale at Spurn Head.</p> <p>Moderate from the N. in Scotland, strong to a gale from the same quarter on our western coasts.</p> <p>Strong from NW. or W. in the west of France, light from S. in the east of France, and from SE. or E. over the Netherlands.</p> <p>A fresh to strong gale from the NE. was experienced yesterday on our northwest, north, and northeast coasts.</p>
WEATHER	<p>Fine in Norway, as well as in the south of France and some parts of Ireland.</p> <p>Cloudy elsewhere, with rain at some of the French stations, and sleet or snow in many parts of Great Britain.</p> <p>Rain fell yesterday in most parts of Western Europe, the largest amounts being 0.8 in. at Spurn Head, and 0.5 in. at Shields and Rochefort.</p>
SEA	<p>High at Shields and Genoa, and rough on our northeast, east, and the more exposed parts of our western coasts.</p>

PROBABLE CHANGES IN SYSTEM NOW PREVALENT

The depression over the northeast of France is inclined to fill up, but pressure is increasing briskly on our western coasts and strong winds seems likely to continue over England for a time.

Cold showers are probable in many parts of Great Britain.

FORECASTS

For the 24 hours ending at NOON on 22nd March 1889.

DISTRICTS.

FORECASTS.

0	SCOTLAND NORTH	N ^w Winds, moderate or fresh; changeable, some cold showers.
1	SCOTLAND EAST	
2	ENGLAND N.E.	NE ^w and N ^w strong winds or gales; squally, some cold showers.
3	ENGLAND EAST	
4	MIDLAND COUNTIES	N ^w Winds, strong to moderate; changeable, some cold showers.
5	ENGLAND SOUTH	

DISTRICTS.

FORECASTS.

6	SCOTLAND WEST	Same as N ^o 0 and 1
7	ENGLAND N.W.	
8	ENGLAND S.W.	N ^w Winds, strong, a gale in places; squally, some cold showers.
9	IRELAND NORTH	
10	IRELAND SOUTH	N ^w Winds, moderate or fresh; fair generally, but local showers.

WARNINGS

The NORTH CONE was hoisted yesterday in districts 7, 8, and 9.

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

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

YESTERDAY'S 2 P.M. REPORTS.

	Bar.	Dry.	Wet.	Wind.	Wca.	Sea.		Bar.	Dry.	Wet.	Wind.	Wca.	Sea.
Skudesnaes ...	29.28	39	33	N H	C	5	Holyhead ...	28.98	42	40	NE 6	o qm	5
Snaburgh Head ...	29.47	34	32	NNE 3	O	5	Valencia ...	29.23	46	43	N 5	o qm	5
Stornoway ...	29.50	37	36	NE 6	S	6	Scilly ...	28.99	49	45	WSW 2	o p	6
Aberdeen ...	29.28	35	34	NNE 9	qphsu	7	Jersey ...	29.02	45	42	SW 4	O	3
Shields ...	28.91	40	39	NE 6	O	5	Dungeness ...	29.04	47	40	SW 6	C	5
Ardrossan ...	29.28	42	39	NNE 7	C	4	London ...	28.99	51	45	SSW 5	CP	*
Malin Head ...	29.26	42	40	NNE 6	6	5	Yarmouth ...	28.87	45	44	S 5	C	4
Mullaghmore ...	29.27	45	40	NNE 8	C	6	Rochefort ...	29.34	46	45	SW 6	T	3
Belmullet ...	29.34	43	41	NNE 9	O	*							

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

The report for yesterday morning showed that pressure had again decreased over the whole of Western, Southern and Central Europe, while it had increased considerably over the Central and Southern parts of Russia, and that readings varied from between 29.7 ins. and 30.3 ins. in a large high pressure region lying over the latter regions, and from between 29.8 ins. and 30.0 ins. over Algeria and the southern part of Spain, to about 29.0 ins. off the west coast of Lapland, and to less than 28.8 ins. in a well marked depression, which lay over the north of England. The wind, therefore, varied greatly; it was light from SE. and S. over Russia, Central Europe, the Baltic, and the eastern shores of the North Sea, moderate to strong from SW. in the north of France, the Channel, and east of England, but strong to gale from the NE^{ast} over Ireland and Scotland, with a tendency to increase. Weather was in a very changeable condition, rainy over the British Isles, France, and Spain, but especially over the northern districts of the British Isles, where wet snow fell also—dull in most other places, with occasional snow or rain showers locally, fine and bright at many of the Russian stations, and on the southern shores of the Mediterranean. Temperature had risen over Central, Southern and Eastern Europe, as well as in Lapland, fallen in our Islands and the north and west of France. It was still very low over Russia and Sweden, and somewhat low in Poland and Norway, but decidedly above the freezing point elsewhere. The lowest individual values were -9° at Uleaborg, -3° at Haparanda, +1° at Moscow, 2° at Archangel, 6° at Kiga, 7° at Kharkov, 8° at Kuopio, 12° at St. Petersburg, 13° at Helsingfors, 17° at Memel, 21° at Stockholm, 29° at Warsaw and Skudesnaes; the lowest were 64° at Palermo, 62° at Algiers, 57° at San Fernando, 54° at Brindisi and Bilbao, 53° at Lisbon, and 43° to 46° at our Channel stations.

Later in the day the depression over our northern counties moved southwards, and the NE³ gale in Scotland and Ireland began to spread over the northeastern and northwestern coasts of England, accompanied by rain and wet snow.

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, 22nd March,* 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 ..	29.56	-4	Z	0	b	29.63	+27	-6	-6	-4	S	2	b	*	16	-13	.	
Hernösand ...	29.73	9	Z	0	b	29.75	+29	1	1	-8	Z	0	b	*	36	0	.	
Stockholm ...	29.60	17	N	2	b	29.65	+36	13	12	-12	N	4	b	*	?	16	.	
Wisby ...	29.52	28	NNE	8	0	29.57	+32	18	18	-14	NNE	6	b	*	?	?	.	
Bodö ...	29.47	28	W	4	c	29.36	00	28	24	+1	ESE	2	S	1	28	23	.	
Christiansund...	29.68	28	SSW	6	b	29.38	-19	32	30	+6	S	6	0	4	32	?	.	
Skudesnaes ...	29.78	28	NNE	1	b	29.78	+28	31	28	+4	SSE	6	0	4	?	27	.	
Christiania Fjord (Færdar)	29.67	31	N	5	b	29.76	+34	22	19	-3	WSW	2	b	1	30	19	.	
Skagen (The Seaw)	29.65	29	NE	4	b	29.78	+29	27	23	0	Z	0	b	0	32	21	.	
Fenö ...	29.67	28	N	5	b	29.86	+56	30	28	-1	N	1	b	*	32	25	.	
BRITISH ISLANDS.																		
Sumburgh Head	29.78	33	Z	0	0	29.67	-01	43	41	+13	WNW	3	c	4	43	30	0.38	
Stornoway ...	29.89	38	NW	3	0	29.89	+09	42	42	+10	W	3	c	4	42	30	0.08	
Wick ...	29.85	35	NW	2	0	29.80	+07	42	41	+10	NW	5	0	4	42	32	0.10	
Nairn ...	29.90	35	SW	1	bc	29.89	+15	40	38	+7	SW	3	c	1	40	31	.	
Aberdeen...	29.90	35	NW	2	c	29.90	+19	42	39	+9	WSW	2	bc	3	42	32	0.02	
Leith ...	29.92	39	N	2	c	29.98	+29	41	38	+6	W	3	cm	*	44	32	.	
Shields ...	29.84	36	NNE	5	rshp	30.01	+45	35	33	-2	W	3	c	4	41	30	0.02	
Spurn Head ...	29.85	38	NNE	6	bc	30.05	+65	36	33	-2	NW	4	bc	4	40	32	0.02	
York ...	29.79	37	N	4	bc	30.03	+54	33	31	-4	WNW	1	b	*	42	29	0.02	
Loughborough	29.80	37	NNE	4	b	30.12	+70	34	31	-1	WNW	2	b	*	41	29	.	
Ardrossan ...	29.92	41	N	2	c	30.01	+27	44	43	+7	W	3	0	2	44	34	.	
Malin Head ...	29.98	39	N	3	c	30.06	+29	43	42	+7	WNW	4	bp	3	43	36	.	
Mullaghmore ...	30.03	41	WNW	5	op	30.15	+34	42	41	+3	WSW	3	p	3	44	38	0.04	
Belmullet ...	30.06	42	N	3	bc	30.17	+30	45	44	+6	WNW	2	0	*	45	37	0.06	
Donaghadee ...	29.96	41	NNE	4	bc	30.11	+38	37	36	-1	W	3	0	1	43	36	.	
Barrow-in-Furness	29.90	36	NE	4	c	30.08	+49	37	34	+1	NW	3	bc	*	43	34	.	
Liverpool (Bidston)	29.89	37	NNE	3	c	30.12	+56	40	36	+3	WNW	3	bc	3	42	34	.	
Holyhead ...	29.92	39	NE	5	bcap	30.15	+53	43	39	+5	WNW	3	b	3	43	36	.	
Parsonstown ...	30.00	40	NW	2	0	30.20	+43	37	35	+1	Z	0	0	*	42	33	.	
Valencia ...	30.05	45	NNE	3	bcv	30.27	+43	38	37	-4	Z	0	b	1	47	35	.	
Roche's Point...	29.99	43	NNE	5	bc	30.23	+48	38	34	-1	WNW	4	bc	4	47	34	.	
Pembroke ...	29.90	37	NNE	6	bc	30.19	+65	41	36	+2	N	3	b	2	42	34	0.01	
Scilly ...	29.83	43	N	8	0	30.20	+72	43	38	0	WNW	5	c	5	44	39	.	
Prawle Point ...	29.78	38	N	6	e	30.10	+76	38	34	+1	NW	2	b	2	44	29	0.01	
Jersey ...	29.62	40	N	6	op	30.12	+86	39	35	-3	NE	4	cq	4	44	38	0.14	
Hurst Castle ...	29.70	39	NNE	8	c	30.13	+86	35	33	-5	N	4	m	3	45	31	0.04	
Dungeness ...	29.53	35	NNE	7	S	30.03	+85	34	32	-7	NNE	5	c	4	47	32	0.07	
London ...	29.68	38	NNE	5	oq	30.09	+86	35	32	-4	NNE	2	c	*	42	33	0.22	
Oxford ...	29.86	36	NNE	3	bc	30.13	+80	34	31	-1	WNW	2	b	*	40	30	0.11	
Cambridge ...	29.76	35	N	4	0	30.10	+78	35	32	-2	SE	1	0	*	39	30	0.10	
Yarmouth ...	29.61	36	NNE	7	cqphs	30.01	+74	37	35	-1	NNE	4	c	5	38	33	0.03	
Cuxhaven ...	29.41	32	NE	6	c	29.82	+61	31	30	-7	NNE	5	b	*	?	29	.	
Berlin ...	29.41	42	NW	1	0	29.68	+43	34	33	-8	WNW	4	0	*	45	32	0.16	
Wiesbaden ...	*	*	*	*	*	29.68	+38	38	36	-2	N	4	0	*	48	37	.	
Munich ...	29.43	35	E	1	b	29.62	+26	36	35	0	SW	2	c	*	48	30	.	
FRANCE & NETHERLANDS.																		
The Helder ...	29.63	35	NNE	4	0	29.96	+71	35	32	-5	NNE	2	c	3	41	34	0.08	
Brussels 9 A.M.	*	*	*	*	*	29.96	+75	32	29	-10	NNE	4	b	*	46	32	0.08	
Cape Gris Nez...	?	37	NE	6	T	?	?	36	?	-6	NE	6	e	6	46	36	0.12	
Paris ...	29.42	44	WNW	2	c	?	?	33	32	-8	NNE	4	bc	*	56	32	0.16	
Brest ...	29.76	41	N	6	c	30.19	+74	40	35	-3	N	1	0	1	52	37	.	
Lorient ...	29.66	41	N	6	c	30.09	+79	40	35	-2	NNE	5	0	5	48	39	.	
Rochefort ...	29.60	44	NW	6	T	30.01	+75	40	37	-7	NNE	6	0	3	50	32	.	
Belfort ...	29.43	39	W	1	T	29.65	+30	39	39	-1	W	1	T	*	?	34	0.35	
Lyons ...	29.45	46	WNW	2	c	29.71	+34	39	37	-3	W	2	c	*	50	37	0.04	
Nice ...	29.43	49	W	5	c	29.86	+18	43	36	-2	ESE	4	b	3	59	41	.	
Perpignan ...	29.57	52	NW	3	b	29.80	+33	45	37	+5	NW	2	b	*	59	?	.	
Biarritz ...	29.71	48	NW	7	c	29.93	+48	44	42	-2	N	7	rhp	7	52	41	0.32	
Corunna ...	*	*	*	*	*	30.24		48	45		NNE	1	T	6	52	39	0.91	
Lisbon ...	30.08	50	NW	4	b	30.17	+24	47	42	-4	N	3	b	5	57	45	.	
PENINSULA.																		

WEATHER CHARTS

for 8 a.m. on Friday, 22nd March.

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.

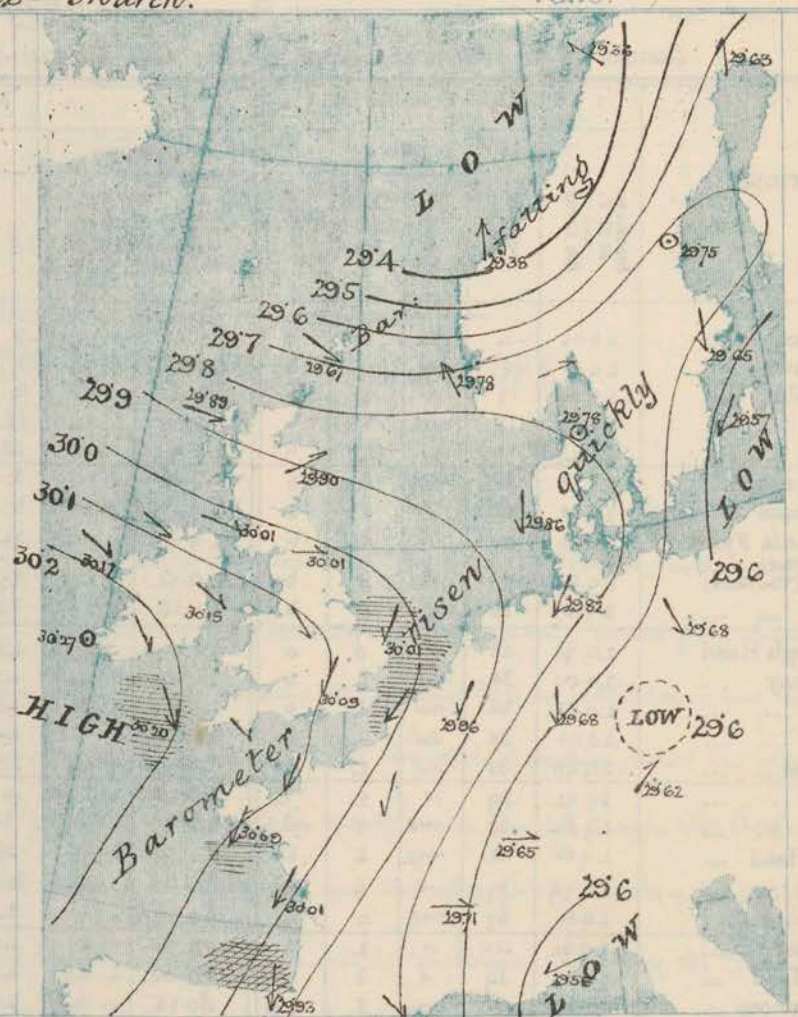
Sea Disturbance — where considerable, is shown thus.

— = Rough — = High.

MEAN HEIGHT of the BAROMETER

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

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



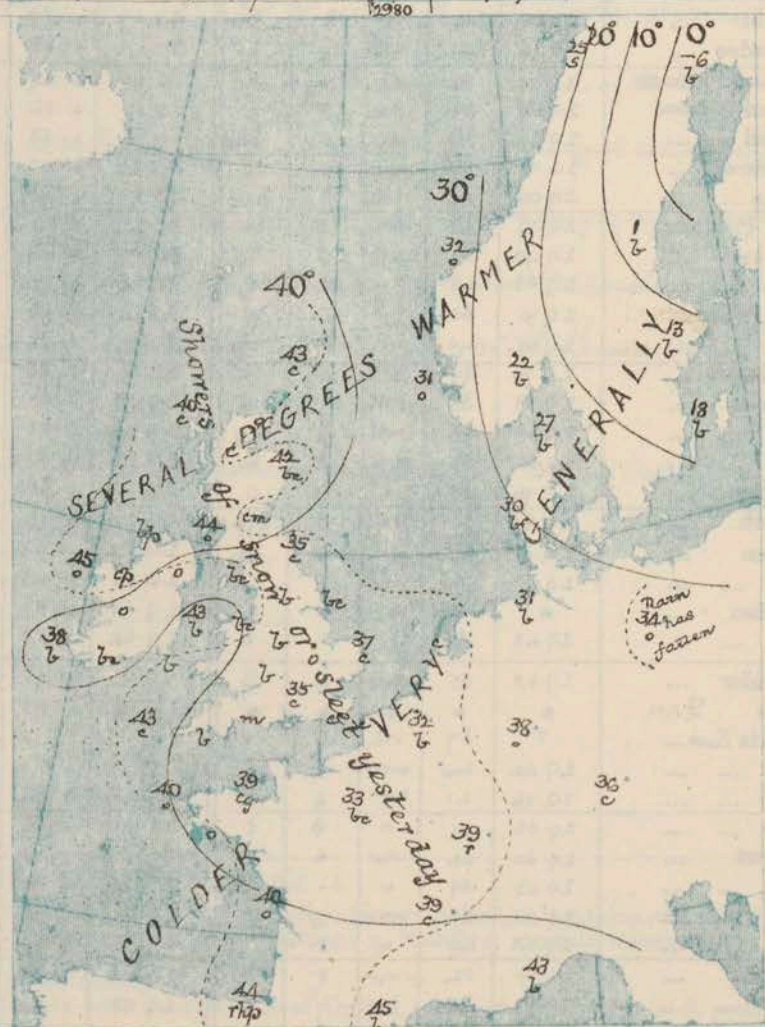
TEMPERATURE & WEATHER at 8 A.M. with RAINFALL in PAST 24 HOURS

Temperature — Isotherms are drawn for each 10° changes since previous morning are stated in words.
Weather — is shown by Letters of the Beaufort Scale.
Rainfall — A dotted line separates the districts in which rain has fallen from those where there has been none. Falls of 0.5 in. or more, are quoted in figures.

MEANS OF TEMPERATURE IN SHADE AND RAINFALL for the month of March.

STATIONS	TEMPERATURE				RAINFALL. (Inches)
	Daily Max	Daily Min	at 3 a.m.		
			Dry	Wet.	
Sumburgh Head	42.6	34.0	38.5	37.1	2.92
Stornoway	44.9	34.4	39.2	38.0	3.87
Wick	44.7	33.9	39.1	37.2	1.97
Nairn	45.6	34.2	38.2	36.3	1.72
Aberdeen	45.4	34.7	38.9	36.8	2.24
Leith	48.2	34.6	39.7	37.9	1.36
Shields	45.9	35.4	39.6	38.0	1.60
York	48.9	33.7	38.6	37.1	1.68
Loughborough	49.8	34.3	39.5	37.7	1.47
Ardrossan	46.8	36.6	40.5	38.7	2.59
Donaghadee	47.3	37.1	41.0	39.7	1.99
Holyhead	47.6	39.2	42.5	41.0	2.21
Liverpool	47.3	37.1	40.8	38.7	1.69
Parsonstown	50.1	35.5	41.2	39.6	2.35
Valencia	51.6	40.6	45.4	43.4	4.24
Roche's Point	50.2	40.0	43.8	42.1	3.71
Pembroke	47.1	39.5	42.6	40.8	2.45
Scilly	49.9	43.0	46.5	44.7	2.38
Jersey	49.9	40.5	44.7	42.7	2.32
Hurst Castle	48.3	37.7	41.6	40.7	1.80
Dover	46.9	37.8	41.6	39.9	1.86
LONDON	50.6	35.8	40.6	38.7	1.43
Oxford	49.5	35.2	39.4	37.9	1.52
Cambridge	50.6	33.3	39.2	37.7	1.33
Yarmouth	45.7	35.8	40.8	39.1	1.77

NOTE — The Temperature means are for the 15 years 1871-85, the Rainfall means are mainly those for the 25 years 1866-85.



GENERAL SITUATION AT 8 A.M.

PRESSURE

Highest, 30.2 ins. and upwards, in an anticyclone lying to the southward of our Islands.
lowest, 29.4 ins. and less, in a large depression lying off the west of Norway; 29.6 ins. and less, over Central Germany and the southeast of France.
Gradients, rather rough over the west of Norway, but moderate or slight elsewhere.
Barometer, falling in the north of Scotland and the west of Norway, but rising in all other localities.

TEMPERATURE

Highest, 47° at Lisbon, 43° at Balmuccia and Perpignan, 44° at Andover and Riancho, and 43° at Lismore Head, Malin Head, Holyhead, Lally, and other places.
lowest, -6° at Haparanda, +1° at Helsingfors, 15° at Stockholm, 18° at Malmö, 22° at Falmouth, 27° at Rügen and 28° at Rode.
Frost occurred over Great Britain last night; the thermometer on the grass falling to 26° in London and 24° at Buryborough.

WIND

Slight or moderate from the NW over the northern parts of our Islands; strong from the SW in the west of Norway.
Chiefly N. elsewhere; fresh or strong in force over the Bay of Biscay.
A moderate to fresh gale from the NE was experienced yesterday in the southeast of England.

WEATHER

Fair generally, but dull in Norway and France, with snow at Rode, rain at Belfast, and hail showers at Riancho.
Snow or sleet was experienced yesterday in many parts of Great Britain.

SEA

High at Brixia, and rather rough off the southeast of England and at the mouth of the Channel.

PROBABLE CHANGES IN SYSTEM NOW PREVALENT

The large depression in the far north seems likely to spread southwards, and some increase of wind from the NW is probable on the Scotch coast. Over the southern parts of our Islands the weather is likely to become temporarily milder.

FORECASTS

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

DISTRICTS.

FORECASTS.

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

W^{ind} Winds, moderate, to NW^{ind}; strong; unsettled, some cold rain or sleet.
W^{ind} and NW^{ind} winds, freshening; fair to unsettled and some rain.
N^{ind} to NW^{ind} winds, moderate; fair to showery. Becoming temporarily milder.

DISTRICTS.

FORECASTS.

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

Same as N^o 0 and 1
Same as N^o 2.
N^{ind} and NW^{ind} winds, moderate; fair generally.
Same as N^o 0 and 1
Same as N^o 8
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 ...	29.65	40	32	E.N.E. 4	b	2	Holyhead ...	29.82	39	35	N.N.E. 6	b.c.g.	6
Sumburgh Head ...	29.75	34	32	N 1	b	3	Valencia ...	29.97	47	42	N 4	b.c.v.	4
Stornoway ...	29.88	39	36	N 3	c	3	Scilly ...	29.72	43	39	N 8	o.g.	6
Aberdeen ...	29.83	37	33	N.W. 4	c.g.	5	Jersey ...	29.56	41	39	N.W. 5	o	4
Shields ...	29.74	39	35	N.N.E. 5	o	7	Dungeness ...	29.37	38	37	N.N.E. 6	o.s.p.	4
Ardrossan ...	29.86	41	36	N 4	c	1	London ...	29.51	39	36	N.E. 5	o.p.s.g.	*
Malin Head ...	29.92	39	37	N.N.E. 4	o	3	Yarmouth ...	29.49	37	36	N.N.E. 7	c.p.s.h.	6
Mullaghmore ...	29.95	44	38	N.N.E. 5	b.c.v.	4	Rochefort ...	29.55	48	44	N.W. 6	o	3
Belmullet ...	30.00	43	41	N.N.E. 3	b.c.	*							

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

The reports for yesterday morning showed that pressure was still giving way over Russia, and Southeastern and Southern Europe, but that a decided increase was in progress over the British Isles, the North Sea and Norway. The depression noticed over the north of England on the previous day had moved southwards to Belgium, and a large shallow area of low pressure covered all the northern parts of France, Germany, the Baltic, and Baltic Provinces. Thus, while S.W. and S. winds prevailed over the Mediterranean, European Turkey, and the western parts of Russia, N.E. winds, strong to gale in force had become prevalent over the United Kingdom and the greater part of the North Sea. The weather was fair over the Mediterranean, the south of France, and Northern Europe, cloudy and unsettled elsewhere with rain in Germany and the north of France, and a good deal of rain and wet snow at times over the British Isles.

Temperature had risen fast over Russia and Eastern Europe generally, but was falling in the west and northwest. Sharp frost still prevailed over Northern Europe, and had extended to the north of the British Islands; elsewhere the air was much less cold. The lowest morning values reported were -2° F. at Haparanda, +9° at Uleaborg and Helsingfors, 10° at Kuopio, 15° at Archangel, 21° at Moscow, 24° at St. Petersburg, 25° at Hango and Stockholm, 26° at Christiansund, 27° at Rodeanaes, 30° at Sumburgh Head and 32° at Wick. In London and at Madrid the temperature was 33°, at Paris 41°, and Brussels, Berlin and Vienna 42°. The highest readings were 61° at Oran and Algiers, 59° at Cagliari, 57° at Brindisi, 55° at Barcelona, 54° at Leghorn, 52° at Trieste, 51° at Lisbon, 50° at Humantadt, 46° at Biarritz, 43° at Scilly, and 42° at Valencia.

Later on the N.E. gales died down, the barometer rose quickly in our Islands, and a cold night was experienced over 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. equally; 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, 23rd March, 1889.

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

STATIONS.	† YESTERDAY EVENING.						8 A.M. TO DAY.										PAST 24 HRS.		
	Barometer at 3 p.m. 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.	Avg. at 8 a.m.
SCANDINAVIA.																			
Haparanda ...	29.54	-5	Ze	0	b		29.64	+0.1	-7	-7	-1	N	2	b	*		10	-11	-
Hernösand ...	29.47	23	S	2	bc		29.76	+0.1	24	22	+23	N	4	b	*		37	-8	-
Stockholm ...	29.62	22	Ze	0	o		29.71	+0.6	21	18	+8	NW	2	b	*		28	10	-
Wisby ...	29.75	19	NW	4	b		29.77	+2.0	24	24	+6	NW	1	b	*		?	18	-
Bodö ...	29.40	25	E	2	c		29.60	+2.4	24	23	-4	E	2	c	1		30	19	-
Christiansand ...	29.64	33	NW	6	c		29.62	+2.4	33	31	+1	ENE	4	c	4		34	28	0.12
Skudesnaes ...	29.83	36	NW	4	bc		29.87	+0.9	36	34	+5	ENE	4	o	4		43	30	-
Christiania Fjord (Fjord)	29.62	31	NW	4	b		29.85	+0.9	31	30	+9	Ze	0	b	1		32	?	-
Skagen (The Sound)	29.63	35	W	3	b		29.88	+1.0	33	30	+6	N	1	bc	1		36	26	-
Fanö ...	29.41	36	W	4	o		29.99	+1.3	36	36	+6	W	4	f	*		37	30	-
BRITAIN & IRELAND.																			
Sumburgh Head	29.81	42	Ze	0	o		29.53	-1.4	45	42	0	WSW	4	r	4		47	36	0.09
Sornoway ...	29.88	46	SW	4	c		29.57	-3.2	49	49	+7	SW	4	o	4		49	40	0.03
Wick ...	29.90	42	W	2	b		29.63	-1.7	44	43	+2	SW	4	o	3		49	39	0.05
Nairn ...	29.92	44	SW	1	bc		29.66	-2.3	46	44	+6	SW	4	c	4		51	37	-
Aberdeen ...	29.97	46	WSW	2	bc		29.79	-1.1	43	40	+1	SSW	4	cq	3		52	38	0.02
Leith ...	30.00	48	W	3	bc		29.88	-1.0	45	41	+4	SW	5	cqm	*		54	40	-
Shields ...	30.04	46	W	3	bc		30.00	-0.1	46	41	+11	SW	4	m	3		51	35	-
Spurn Head ...	30.09	43	W	2	c		30.15	+1.0	42	39	+6	WSW	4	bc	3		45	36	-
York ...	30.07	46	W	2	bc		30.10	+0.7	41	39	+8	S	3	c	*		51	32	-
Loughborough	30.16	45	NW	3	b		30.22	+1.0	43	39	+9	WSW	3	c	*		50	34	-
Ardrossan ...	30.07	47	W	1	bc		29.93	-0.8	44	44	0	SW	6	rm	5		51	42	0.08
Malin Head ...	30.05	45	SW	5	bc		29.79	-2.7	46	45	+3	SSW	6	og	4		50	43	0.03
Mallaghmore ...		No observations taken					29.90	-2.5	47	46	+5	SSW	7	op	6		50	41	0.16
Belmullet ...	30.10	46	SW	5	o		29.89	-2.8	49	49	+4	SW	6	om	*		49	42	0.16
Doughadee ...	30.14	48	W	3	bc		29.99	-1.2	43	42	+6	W	5	r	3		51	37	0.01
Barrow-in-Fariness	30.13	44	SW	3	o		30.09	+0.1	43	40	+6	SSW	5	o	*		47	36	-
Liverpool (Blanton)	30.17	43	W	3	c		30.16	+0.4	43	40	+3	SW	3	o	3		47	39	-
Holyhead ...	30.18	46	WSW	3	bc		30.14	-0.1	45	43	+2	SSW	5	cq	4		49	42	-
Portsmouth ...	30.20	46	Ze	0	o		30.08	-1.2	45	43	+8	SW	2	o	*		50	36	0.05
Valencia ...	30.24	48	SSW	4	o		30.12	-1.5	49	48	+11	SSW	7	rm	6		50	37	0.10
Reine's Point ...	30.27	47	SW	4	b		30.18	-0.5	48	47	+10	SW	4	op	4		51	36	-
Pembroke ...	30.23	44	WSW	3	b		30.23	+0.4	46	43	+5	SSW	6	c	4		46	40	-
Soilly ...	30.29	44	NW	4	c		30.36	+1.6	48	43	+5	SW	5	o	4		48	39	-
Prawle Point ...	30.26	40	WSW	2	bc		30.35	+2.5	42	38	+4	WSW	4	bc	2		44	34	-
Jersey ...	30.27	42	NW	3	c		30.39	+2.7	40	37	+1	SE	1	bm	1		43	33	-
Hurst Castle ...	30.23	43	c	2	b		30.34	+2.1	43	42	+8	W	2	bc	1		46	33	-
Dungeness ...	30.17	41	NW	3	c		30.29	+2.6	42	39	+8	NW	3	b	2		45	30	-
London ...	30.18	41	W	1	b		30.30	+2.1	38	36	+3	SW	2	b	*		45	31	-
Oxford ...	30.23	40	NW	1	b		30.29	+1.6	38	37	+4	WSW	2	bc	*		49	33	-
Cambridge ...	30.16	43	SW	1	o		30.26	+1.6	42	39	+7	WSW	1	b	*		51	33	-
Yarmouth ...	30.11	41	SSW	2	c		30.20	+1.9	42	40	+5	WSW	3	bc	3		44	33	-
Cuxhaven ...	30.03	37	NW	2	b		30.06	+2.4	38	37	+7	W	3	bc	*		39	?	-
Berlin ...	30.02	33	NW	2	b		30.10	+4.2	34	32	0	NW	5	o	*		41	26	-
Wiesbaden ...	*	*	*	*	*		30.29	+6.1	32	30	-6	NE	2	c	*		43	27	-
Munich ...	29.90	36	NE	3	o		30.22	+6.0	29	28	-7	NW	3	o	*		46	28	0.04
FRANCE & NETHERLANDS.																			
The Helder ...	30.12	39	W	1	c		30.19	+2.3	40	39	+5	W	1	c	2		41	34	-
Brussels ...	*	*	*	*	*		30.30	+3.4	35	35	+3	SSW	3	bc	*		39	?	-
Cape Gris Nez ...	?	37	NE	2	bc		?	?	39	37	+3	SW	1	m	2		43	34	-
Paris ...	30.16	37	NE	3	c		30.36	?	29	28	-4	Ze	0	b	*		40	26	0.02
Brest ...	30.32	44	NE	1	o		30.38	+1.9	44	42	+4	Ze	0	o	2		52	39	-
Lorient ...																			
Rocheport ...	30.21	42	NE	5	o		30.41	+4.0	36	33	-4	NE	4	b	2		45	30	-
Belfort ...	30.05	35	W	1	o		30.23	+5.8	34	33	-5	W	1	o	*		45	28	-
Lyon ...	30.00	33	N	4	r		30.24	+5.3	33	31	-6	N	4	o	*		42	30	0.12
Nice ...	29.67	46	E	3	bc		29.97	+4.1	42	39	-1	E	3	c	3		57	39	-
Perpignan ...	29.98	?	NW	4	?		30.21	+4.1	39	35	-6	NW	4	o	*		50	36	-
Biarritz ...	30.18	43	NE	5	o		30.37	+4.4	38	34	-6	E	3	o	3		46	36	0.04
PORTUGAL.																			
Corunna ...	*	*	*	*	*		30.43	?	46	42	?	ENE	3	o	5		54	41	-
Lisbon ...	30.21	49	N	5	b		30.27	+1.0	46	40	-6	NE	5	b	2		54	43	-

For Explanation of Columns, see p. 4.

‡ Received too late for insertion in Charts on p. 1.

WEATHER

CHARTS

for 8 a.m. on *Saturday 23rd March*

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.

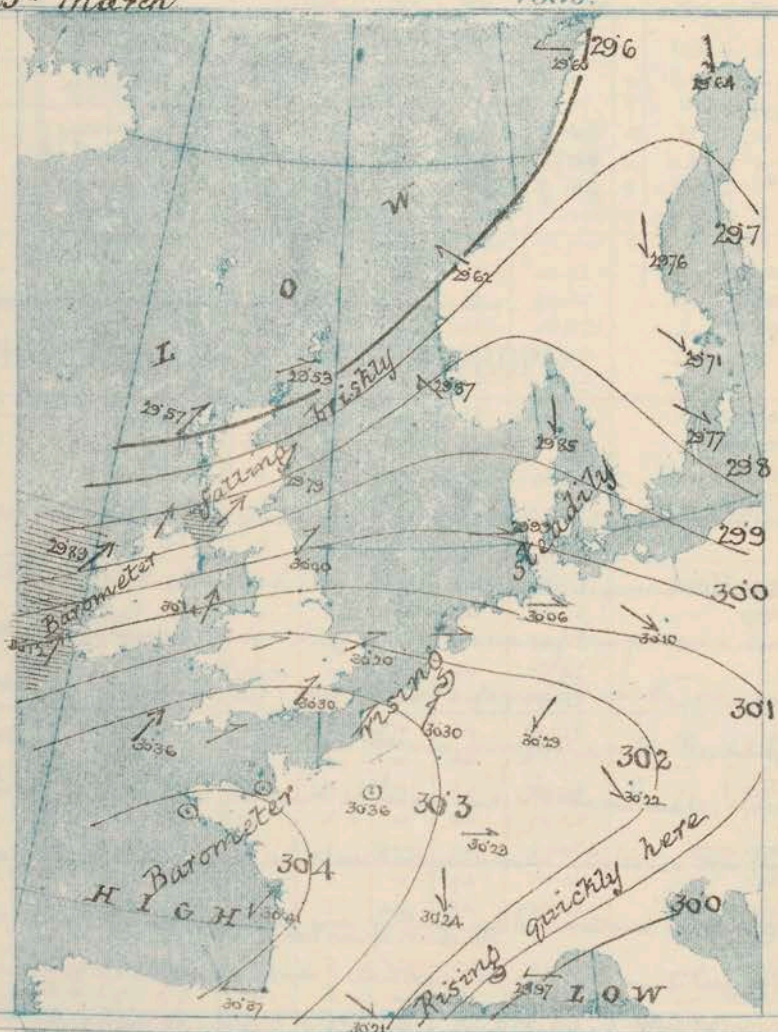
Sea Disturbance — where considerable, is shown thus.

■ = Rough. ■ = High.

MEAN HEIGHT of the BAROMETER

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

STATIONS	MEAN READINGS
Sumburgh Head	29.751
Stornoway	29.779
Wick	29.797
Nairn	29.815
Aberdeen	29.830
Leith	29.862
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York	29.925
Loughborough	29.948
Ardrossan	29.876
Donaghadee	29.892
Holyhead	29.919
Liverpool	29.925
Parsonstown	29.940
Valencia	29.938
Roche's Point	29.941
Pembroke	29.944
Scilly	29.966
Jersey	29.971
Hurst Castle	29.966
Dover	29.955
LONDON	29.967
Oxford	29.960
Cambridge	29.967
Yarmouth	29.928



GENERAL SITUATION AT 8 A.M.

PRESSURE	Highest, 30.4 in. and upwards, in an anticyclone lying over the Bay of Biscay; lowest, 29.6 in. and less, in a large depression lying to the northward and northward of the British Isles. Gradients rather steep over our western and northern coasts, but slight elsewhere. Barometer falling briskly in the north and northwest of our islands, but rising at our southeastern and the Continental stations.
TEMPERATURE	Highest, 49° at Larnaca, Balmuccia, and Valencia; 48° at Rochepoint and Scilly; 47° at Mullaghmore, and 46° at Malin. H. B. B. Lowest, -7° at Hafnarvordur, +21° at Stockholm, 24° at Riga, 25° at Helsingfors and Nisby, 25° at Paris and Munich, and 31° at Tander. Frost occurred over England last night; in London the thermometer on the grass fell to 20°.
WIND	SW ^{ly} in our islands, light to moderate in force in the east and south, strong in the west and northwest. Moderate SE or E in the west of Norway; W or NW in Denmark, Germany, and the south of Sweden. Light or moderate from between N and E in the south of France.
WEATHER	Fine at our eastern, southern and most of the Continental stations. Hazy in Ireland and the west and north of Scotland. A faint Aurora was seen last night at Aberdeen.
SEA	Wrough off the west of Ireland and rather rough off the west of Scotland, but moderate or slight elsewhere.

PROBABLE CHANGES IN SYSTEM NOW PREVALENT

The large depression in the north seems likely to travel eastwards, and the unsettled rainy weather now prevailing on our western coast will probably extend to most parts of the United Kingdom. A further increase of wind from the Wnd is anticipated on our northern and northwestern coasts.

FORECASTS

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

DISTRICTS.	FORECASTS.	DISTRICTS.	FORECASTS.
0 SCOTLAND NORTH	SW ^{ly} to W ^{ly} or NW ^{ly} winds, increasing to a gale; squally, some rain.	6 SCOTLAND WEST	SW ^{ly} to W ^{ly} winds, increasing to a gale; squally, some rain.
1 SCOTLAND EAST		7 ENGLAND N.W.	
2 ENGLAND N.E.	SW ^{ly} winds, moderate, to W ^{ly} , strong; unsettled, some rain.	8 ENGLAND S.W.	SW ^{ly} to W ^{ly} winds, fresh or strong; fair generally, but some showers.
3 ENGLAND EAST	SW ^{ly} winds, light, to W ^{ly} , fresh; fine to unsettled and some rain.	9 IRELAND NORTH	Same as Nos 6 and 7.
4 MIDLAND COUNTIES		10 IRELAND SOUTH	Same as No 8.
5 ENGLAND SOUTH			

WARNINGS

The SOUTH CONE was hoisted last evening in districts 0, 6, 7, 9, 10 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 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 N. 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.	Wca.	Sea.		Bar.	Dry.	Wet.	Wind.	Wca.	Sea.
Skudesnes	29.71	43	40	W 2	bc	5	Holyhead	30.18	48	45	W 3	bc	2
Sumburgh Head	29.79	42	40	WSW 2	c	4	Valencia	30.27	49	44	WSW 3	c v	3
Stornoway	29.92	48	46	W 4	c	4	Scilly	30.26	45	39	N 4	c	4
Aberdeen	29.95	48	43	W 4	c	3	Jersey	30.23	42	37	NNE 4	c	3
Shields	30.02	50	45	W 4	b	3	Dungeness	30.13	41	36	NNE 4	c	3
Ardrossan	30.07	48	47	W 3	c	2	London	30.16	44	37	NW 3	c	*
Malin Head	30.09	48	46	W 4	c	3	Yarmouth	30.08	41	38	NNE 3	b	4
Mullaghmore	No observations taken.						Rochefort	30.15	41	36	NNE 6	c	3
Belmullet	30.16	49	46	SW 4	bc	*							

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

The reports for yesterday morning showed that while the barometer had risen decidedly over the whole of Western and Central Europe, as well as in Sweden, it had fallen over Russia, and that the high pressure area in that country was still moving eastwards, while the new ^{high} pressure system which had appeared in the west was spreading eastwards over the North Sea to the south of Sweden. In the meantime a new depression was appearing off the northwest of Norway and advancing eastwards, so that the barometer was falling in that region, and the fall was spreading to Scotland. Thus, while over the British Isles, Western Europe and the Baltic the wind was NW² to N³ it had backed to the SW² in Norway, and was blowing strongly. The weather had improved very much over the United Kingdom, and was fair over France, but dull over Germany, in the Baltic Provinces and Poland snow was falling and rain in the north of Spain. Temperature had decreased in most places, but a recovery was in progress over Scotland and the north of Ireland; the readings were again below zero F. at the northern extremity of the Gulf of Bohnia and hard frost prevailed over Finland and Sweden. Over Central Russia however, the frost was slight, and at the other Continental stations the thermometer readings were above the freezing point. The lowest morning readings were -6° F. at Haparanda, -4° at Uleaborg, +4° at Hernösand, 6° at Kuopio, 13° at Stockholm, 18° at Vicksy, 19° at Hango, 22° at Helsinki and Laender, 26° at Copenhagen, 28° at Rode and Moscow, 29° at Memel and Kewstahawane, 30° at Lissabon, 32° at Warsaw; at Paris the thermometer was 33°, at Berlin 34°, and in London 35°. The highest values were 59° at Cagliari, 57° at Brindisi, 55° at Palermo, 53° at Naples and Leghorn, 52° at Barcelona, 51° at Genoa, 48° at San Fernando and Gouanna, 45° at Belmullet, 44° at Biarritz, 43° at Scilly, Malin H² and Sumburgh Head.

Late in the day pressure began to give way decidedly on our northwestern coast, and the wind thus backed to SW, with milder weather. In the southeast the sky cleared, and a sharp frost occurred at night.

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).

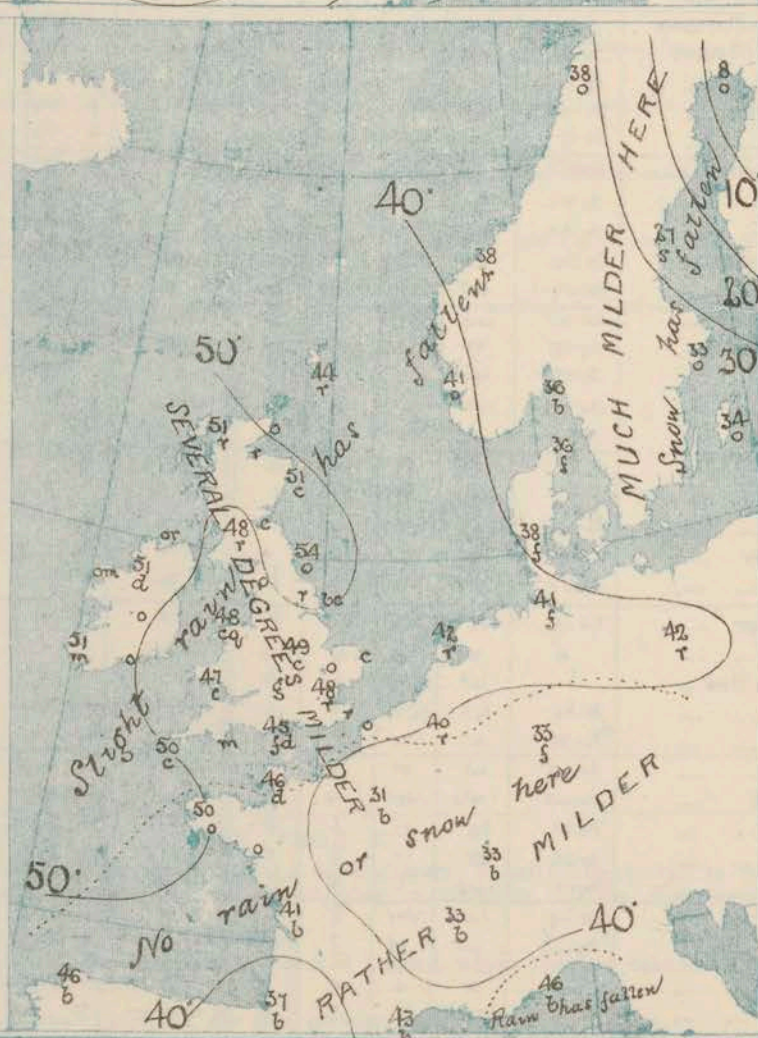
The Subscription for these Reports, forwarded by book post, is £1 per annum, payable in advance.

DAILY WEATHER REPORT.

for Sunday 24th March. 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 ..	29.70	-4	Z	0	b	29.52	-12	8	7	+ 15	S	2	0	*	23	-13	—														
Hernösand ...	29.73	23	Z	0	b	29.47	-29	27	27	+ 3	Z	0	s	*	32	18	0.04														
Stockholm ...	29.82	27	Z	0	b	29.59	-12	33	32	+ 12	SW	2	0	*	37	18	0.04														
Wisby ...	29.90	28	NW	4	b	29.70	-07	34	33	+ 10	SSW	4	0	*	?	23	0.04														
Bodö ...	29.27	33	E	4	0	29.10	-50	38	35	+ 14	SSE	2	0	1	43	33	0.10														
Christiansund...	29.35	42	SW	6	r	29.29	-23	38	37	+ 5	WSW	8	r	5	?	36	0.34														
Skudesnaes ...	29.70	37	S	6	r	29.74	-13	41	41	+ 5	W	4	0	4	?	31	0.04														
Christiania Fjord (Forder)	29.74	34	SSW	4	r	29.59	-26	36	34	+ 5	WSW	2	0	2	39	32	0.08														
Skagen (The Sea)	29.87	36	SW	4	r	29.65	-23	36	36	+ 3	WNW	4	f	3	41	36	—														
Fanö ...	30.01	37	WSW	4	0	29.92	-07	38	38	+ 2	W	4	f	*																	
BRITISH ISLANDS.																															
Sumburgh Head	29.51	45	WSW	4	c	29.64	+11	44	44	+ 1	W	1	r	3	47	40	0.09														
Stornoway ..	29.65	49	W	3	0	29.61	+04	51	51	+ 2	W	4	r	3	51	44	0.04														
Wick ...	29.63	48	NW	1	bc	29.63	+00	48	47	+ 4	SW	2	0	2	53	43	0.25														
Nairn ...	29.67	53	SW	3	c	29.67	+01	51	50	+ 5	WSW	4	r	1	56	44	0.05														
Aberdeen...	29.73	50	SW	4	c	29.74	+05	51	49	+ 8	S	3	c	3	51	43	—														
Loith ...	29.84	51	SW	5	c	29.84	+04	53	51	+ 8	WSW	5	c	*	53	45	—														
Shields ...	29.93	49	WSW	5	0	29.93	+07	54	50	+ 8	SW	4	0	2	54	44	—														
Spurn Head ...	30.08	48	SW	6	0	30.05	+10	48	46	+ 6	SW	4	bc	3	50	41	0.04														
York ...	30.04	48	SSW	3	0	30.02	+08	51	50	+ 10	W	2	r	*	51	40	0.02														
Loughborough	30.17	48	WSW	3	0	30.15	+07	49	47	+ 6	WSW	2	c	*	51	42	—														
Ardrossan ...	29.88	46	SSW	4	a	29.91	+02	48	48	+ 4	WSW	5	r	4	48	36	0.11														
Malin Head ...	29.84	49	SW	4	od	29.86	+07	49	49	+ 3	SW	5	or	4	50	46	0.09														
Mullaghmore...	29.94	51	SSW	5	om	29.97	+07	51	50	+ 4	SW	6	a	5	52	46	0.14														
Belmullet ...	29.94	50	SW	4	om	29.99	+10	50	50	+ 1	SW	6	om	*	51	48	0.17														
Donaghadee ...	29.94	51	SW	6	r	29.99	+00	52	50	+ 9	WSW	6	0	4	52	43	0.02														
GERMANY.																															
Barrow-in-Farress	30.02	45	S	6	r	30.07	+02	46	46	+ 3	SW	4	0	*	46	42	0.14														
Liverpool (Biston)	30.09	48	WSW	5	0	30.09	+07	53	50	+ 10	WSW	1	0	2	53	43	—														
Holyhead ...	30.10	46	SW	6	rg	30.12	+02	48	47	+ 3	SSW	5	om	5	48	45	0.11														
Parsonstown ...	30.06	51	SW	1	0	30.12	+04	51	49	+ 6	SW	3	0	*	51	44	0.02														
Valencia ...	30.11	52	SW	6	om	30.18	+06	51	50	+ 2	SSW	6	om	6	52	47	0.10														
Roche's Point...	30.15	48	SW	5	r	30.23	+05	50	49	+ 2	WSW	4	0	4	50	45	0.01														
Pembroke ...	30.22	46	SSW	6	r	30.22	+01	47	47	+ 1	WSW	6	c	5	47	45	0.17														
Scilly ...	30.32	49	SW	5	0	30.34	+02	50	49	+ 2	W	5	c	5	52	47	0.08														
Prawle Point ...	30.34	46	WSW	5	c	30.33	+02	47	47	+ 5	W	5	m	3	49	40	0.05														
Jersey ...	30.42	48	W	3	bm	30.42	+03	46	45	+ 6	WSW	5	odm	4	49	39	0.01														
FRANCE & NETHERLANDS.																															
Hurst Castle ...	30.35	44	WSW	5	c	30.30	+04	45	45	+ 2	WSW	6	ofa	4	46	42	0.02														
Dungeness ...	30.28	44	W	5	b	30.25	+04	44	43	+ 2	W	6	r	5	48	41	0.09														
London ...	30.28	46	SW	2	c	30.24	+06	48	46	+ 10	WSW	3	or	*	51	38	0.04														
Oxford ...	30.27	45	WSW	3	0	30.22	+07	48	47	+ 10	WSW	3	og	*	50	38	—														
Cambridge ...	30.23	48	SW	2	0	30.18	+08	49	47	+ 7	SSW	2	0	*	52	40	—														
Yarmouth ...	30.18	48	W	4	bc	30.13	+07	49	48	+ 7	W	4	c	2	51	42	—														
Cuxhaven ...	?	42	W	3	0	30.03	+03	41	40	+ 3	SW	5	f	*	43	38	0.12														
Berlin ...	30.19	44	WNW	4	0	30.15	+05	42	39	+ 8	W	4	r	*	45	34	—														
Wiesbaden ...	*	*	*	*	*	30.36	+07	38	32	+ 8	SW	1	f	*	46	32	—														
Munich ...	30.38	31	W	3	b	30.39	+17	20	28	+ 1	SW	3	b	*	36	25	—														
PENINSULA.																															
The Helder ...	30.19	41	SW	2	b	30.13	+06	42	41	+ 2	SW	3	r	3	46	39	0.08														
Brussels ...	*	*	*	*	*	30.31	+01	40	39	+ 5	SW	3	r	*	51	35	—														
Cape Gris Nez...	?	43	WSW	5	b	?	?	44	43	+ 5	W	5	0	5	48	39	0.08														
Paris ...	30.39	45	SSW	1	b	30.45	+09	31	31	+ 2	SSW	1	b	*	51	29	—														
Brest ...	30.50	47	SW	3	0	30.47	+09	50	48	+ 6	WNW	3	0	4	52	41	—														
Lorient ...	30.45	45	W	3	b	30.46	+09	46	43	+ 5	WSW	2	0	2	50	36	—														
Rochefort ...	30.45	46	NW	4	b	30.50	+09	41	39	+ 5	NNE	3	b	2	54	32	—														
Belfort ...	30.31	39	E	1	b	30.34	+11	33	31	+ 1	E	1	b	*	53	26	—														
Lyons ...	30.36	38	N	3	c	30.45	+21	33	31	+ 0	N	3	b	*	40	31	—														
Nice ...	30.13	44	Z	0	b	30.23	+26	46	43	+ 4	E	3	b	1	50	39	0.04														
Perpignan ...	30.29	43	NW	5	b	30.38	+17	43	35	+ 4	NW	3	b	*	48	39	—														
Biarritz ...	30.43	43	N	3	b	30.49	+12	37	34	+ 1	S	2	b	1	46	36	—														
Corunna ...	*	*	*	*	*	30.50	+07	46	41	+ 0	ENE	1	b	3	55	34	—														
Lisbon ...	30.32	49	N	5	b	30.42	+15	45	40	+ 1	NNE	3	b	2	55	41	—														

1889



GENERAL SITUATION AT 8 A.M.

PRESSURE

Highest, 30.5 ins. and upwards, in an anticyclone lying over the Bay of Biscay.
lowest, 29.1 ins. and less, in a depression lying off the north-west of Norway.
Gradients slight over France, but moderately steep elsewhere.
Barometer rising over the greater part of our Islands and France, but falling on the eastern shores of the North Sea.

TEMPERATURE

Highest, 54° at Shields, 53° at Lark and Liverpool, 52° at Donaghadee and 51° at Stromness, Nams, Aberdeen, York, Belmullet, Carrington and Valencia.
lowest, 8° at Haparanda, 24° at Helsingfors, 30° at Munich, 31° at Paris, and 33° at Stockholm, Wiesbaden, Belfort and Lyons.

WIND

Chiefly, S.W. or W., moderate in force on our north and east coasts, but strong in the west and south.
N. over the southern part of France and also at Lisbon.

WEATHER

Cloudy or overcast at all but the French stations, with fog in Denmark, rain in many parts of our Islands and snow at Helsingfors.
In the course of the past 24 hours rain has fallen in most parts of the Kingdom. Solar halos were seen yesterday at many of the English stations.

SEA

Rather rough on the exposed parts of our western and southern coasts, but moderate to smooth elsewhere.

PROBABLE CHANGES IN SYSTEM NOW PREVALENT

The depressions which lay to the northward and north-westward of our Islands yesterday has travelled away to Scandinavia, but some shallow secondary disturbances are now moving eastwards across Ireland and England.

FORECASTS

for the 24 hours ending at NOON on 25th March. 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 S. cone is still flying in districts 0, 6, 7, 9, 10, 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.		
Skudeenaes ...	29.78	38	37	SSE	6	r	4	Holyhead ...	30.12	46	45	SW	6	dy	5
Samburgh Head ...	29.48	46	46	WSW	4	r	4	Valencia ...	30.10	52	51	SW	6	om	6
Stornoway ...	29.58	50	50	N	5	r	5	Scilly ...	30.46	51	47	SW	5	c	4
Aberdeen ...	29.72	47	44	S	5	og	3	Jersey ...	30.43	48	42	WSW	3	bc	3
Shields ...	29.96	49	45	SSW	5	o	2	Dungeness ...	30.31	47	44	W	5	b	4
Ardrossan ...	29.88	45	45	SSW	3	o	3	London ...	30.29	51	44	WSW	3	bc	*
Malin Head ...	29.80	50	49	SW	4	o	4	Yarmouth ...	30.20	51	46	W	4	b	3
Mullaghmore ...	29.91	52	51	SW	6	og	5	Rochefort ...	30.45	50	43	NNE	3	b	2
Belmullet ...	29.92	51	51	SW	5	og	*								

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 the Bay of Biscay, and the west of France, and lowest, 29.5 ins. and less, in a shallow depression lying over Finland, and also (apparently) in a large disturbance lying to the northward and north-westward of the British Isles. The wind was SW³ over the United Kingdom, and strong in force on our western coasts, but W in Germany, and SE⁴ or E⁴ in the west of Norway. Over Northern Russia, however, a cyclonic circulation was shown round the depression lying over Finland, while over Southern Europe the wind was chiefly NE² or N². In Algeria SW³ or S² breezes are reported. The weather was fair in the east and southeast of Great Britain, as well as in Finland, Sweden, the Netherlands, France and Spain. Elsewhere, however, the sky was cloudy or overcast with rain in Ireland and the west of Scotland and some parts of Southern Russia and snow at Archangel, Moscow, and Vienna. Temperature had risen somewhat over our Islands, as well as in Denmark, Scandinavia and North Germany, but fallen elsewhere; readings ranged from between 50° and 60° over the central and southern parts of the Mediterranean, and considerably above 45° in the west of our Islands to a few degrees below zero in Lapland. The highest individual readings were 58° at Malta and Sfax, 57° at Alexandria, 55° at Cagliari, 54° at Palermo, 52° at La Galle, and 51° at Leningrad and Algiers; the lowest were -7° at Haparanda, +5° at Umeå, 8° at Hango, 9° at Helsingfors, 15° at Riga, 21° at Stockholm, 23° at St. Petersburg, 24° at Rode, Helsingfors, Malmö, and Norway, 28° at Breslau, and 29° at Archangel, Kharkov, Minsk and Munich.

In the course of the day the large disturbance to the northward of our Islands travelled eastwards towards Scandinavia. No important change was, however, 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).

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DAILY WEATHER REPORT.

for *Monday, 25th March,* 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.		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 ..	29.32	21	S	2	0	29.26	- 26	20	20	+ 12	Z	0	0	*	21	- 9	0.28													
Hernösand ...	29.49	36	NW	2	6	29.54	+ 07	36	31	+ 9	NW	2	bc	*	21	18	0.08													
Stockholm ...	29.56	35	W	2	6	29.63	+ 04	34	31	+ 1	Z	0	b	*	23	27	-													
Wisby ...	29.64	33	WSW	4	0	29.68	- 02	32	31	- 2	W	4	bc	*	?	25	-													
Bodö ...	29.41	33	WSW	6	m	29.26	+ 16	35	33	- 3	W	6	0	3	?	30	0.08													
Christiansund...	29.61	38	SW	4	c	29.41	+ 02	38	36	0	ESE	2	c	5	41	34	0.08													
Skudesnaes ...	29.70	39	W	2	r	29.54	- 20	38	38	- 3	SSE	6	f	4	43	36	-													
Christians Fjord (Færder)	29.61	36	WSW	3	c	29.57	- 02	35	34	- 1	Z	0	b	1	37	34	-													
Skagen (The Scaw)	29.63	36	W	2	f	29.60	- 05	37	37	+ 1	W	4	f	3	41	36	-													
Fandö ...	29.85	39	W	4	r	29.80	- 12	39	39	+ 1	W	4	f	*	41	37	0.16													
Sumburgh Head	29.57	45	W	2	r	29.33	- 31	44	43	0	W	5	c	5	47	40	0.28													
Stornoway ...	29.69	53	W	3	0	29.50	- 11	47	45	- 4	W	5	bc	4	53	44	0.06													
Wick ...	29.66	52	NW	5	bc	29.47	- 16	46	44	- 2	NW	6	cu	3	56	43	0.10													
Nairn ...	29.73	55	W	2	c	29.56	- 11	47	45	- 4	W	3	c	5	60	44	0.09													
Aberdeen ...	29.79	59	SW	3	bc	29.59	- 15	50	44	- 1	W	3	b	3	66	47	-													
Leith ...	29.88	52	SW	3	c	29.69	- 15	49	44	- 4	W	4	b	*	56	46	0.07													
Shields ...	29.95	55	SW	5	c	29.72	- 21	52	49	- 2	WSW	3	op	2	57	49	-													
Spurn Head ...	30.03	51	WSW	4	c	29.83	- 22	49	48	+ 1	SW	4	r	3	54	46	0.01													
York ...	30.03	53	W	2	bc	29.80	- 22	50	49	- 1	WSW	3	m	*	55	48	0.01													
Loughborough	30.15	53	W	3	c	29.91	- 24	50	48	+ 1	WSW	4	op	*	63	47	0.05													
Ardrossan ...	29.93	48	SW	4	op	29.78	- 13	48	45	0	W	4	op	3	51	45	0.30													
Malin Head ...	29.89	50	SW	4	0	29.81	- 05	44	43	- 5	W	5	bc	4	50	44	0.42													
Mullaghmore ...																														
Belmullet ...	29.94	51	SW	6	0	30.01	+ 02	48	45	- 2	WNW	5	0	*	51	46	0.43													
Donaghadee ...	29.99	55	W	6	c	29.89	- 10	47	45	- 5	W	5	b	3	58	46	0.04													
Barrow-in-Furness	30.07	46	SW	4	0	29.85	- 22	45	45	- 1	NW	3	r	*	47	44	0.40													
Liverpool (Baldwin)	30.10	51	WSW	5	0	29.90	- 19	46	45	- 7	W	6	0	4	58	46	0.07													
Holyhead ...	30.13	47	SW	5	dm	29.96	- 16	49	48	+ 1	W	5	b	5	57	46	0.36													
Parsonstown ...	30.09	52	SW	2	0	30.04	- 08	46	44	- 5	SW	2	b	*	54	44	0.19													
Valencia ...	30.13	51	SSW	6	adm	30.18	- 05	50	47	- 1	WNW	4	b	5	54	46	0.18													
Roche's Point...	30.19	50	WSW	5	0	30.12	- 11	49	45	- 1	WNW	4	b	4	52	48	0.10													
Pembroke ...	30.24	47	SW	5	c	30.04	- 18	48	48	+ 1	W	6	cq	5	48	46	0.16													
Sally ...	30.34	50	SW	4	0	30.16	- 18	50	50	0	WSW	5	rf	5	54	48	0.05													
Prawle Point ...	30.34	47	WSW	4	c	30.15	- 18	47	47	0	WSW	6	rm	4	51	44	0.07													
Jersey ...	30.40	50	W	4	cgm	30.27	- 15	48	45	+ 2	WSW	4	cgm	3	52	45	0.03													
Hurst Castle ...	30.30	46	WSW	6	bc	30.11	- 19	45	45	0	WSW	7	orm	5	50	44	0.08													
Dungeness ...	30.20	45	W	5	c	30.08	- 17	45	44	+ 1	W	5	c	4	48	42	0.04													
London ...	30.22	52	SW	3	bc	30.05	- 19	47	46	- 1	SW	2	op	*	60	45	0.01													
Oxford ...	30.22	48	SW	4	bc	30.02	- 20	48	48	0	SW	5	0	*	58	46	-													
Cambridge ...	30.17	57	SW	1	0	29.96	- 22	49	48	0	SW	2	r	*	65	44	-													
Yarmouth ...	30.08	58	W	4	bc	29.93	- 20	50	49	+ 1	W	4	c	3	62	45	0.03													
Cuxhaven ...	29.98	42	W	5	f	29.92	- 11	43	43	+ 2	W	4	f	*	43	40	0.56													
Berlin ...	30.07	43	W	3	r	29.96	- 19	46	45	+ 4	W	4	0	*	46	?	0.16													
Wiesbaden ...	*	*	*	*	*	30.15	- 21	45	44	+ 12	Z	0	r	*	50	?	0.04													
Munich ...	30.34	37	SW	2	c	30.22	- 17	38	35	+ 8	W	4	0	*	43	30	-													
FRANCE & NETHERLANDS.																														
The Helder ...	30.09	43	SW	2	0	29.97	- 16	43	42	+ 1	SW	2	c	3	45	41	-													
Brussels 9 A.M.	*	*	*	*	*	30.13	- 18	46	44	+ 6	WSW	3	0	*	48	?	0.04													
Cape Gris Nez...	?	45	SW	4	0	?	?	45	43	+ 1	SW	5	0	5	46	43	0.04													
Paris ...	30.38	47	SW	2	0	30.29	- 16	46	42	+ 15	WSW	1	0	*	54	?	-													
Brest ...	30.49	49	W	3	0	30.36	- 11	51	45	+ 1	SW	3	0	3	52	39	-													
Lorient ...	30.47	49	W	3	bc	30.37	- 09	49	45	+ 3	W	4	0	4	52	45	-													
Rocheport ...	30.50	48	NW	4	0	30.43	- 07	47	47	+ 1	NW	4	c	2	54	41	-													
Belfort ...	30.22	37	?	1	b	30.27	- 07	43	41	+ 10	W	1	0	*	51	23	-													
Lyons ...	30.39	45	N	1	b	30.30	- 15	42	40	+ 9	WNW	2	0	*	50	?	-													
Nice ...	30.15	52	SW	2	b	30.00	- 23	49	39	+ 3	E	4	bc	0	59	41	-													
Perpignan ...	30.32	51	WSW	4	c	30.22	- 16	49	42	+ 6	NW	4	b	*	54	?	-													
Biarritz ...	30.50	49	N	4	b	30.43	- 06	45	41	+ 8	ESE	2	0	2	50	?	-													
PENINSULAR.																														
Corunna ...	*	*	*	*	*																									
Lisbon ...																														

WEATHER

CHARTS

for 8 a.m. on Monday, 25th March

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.

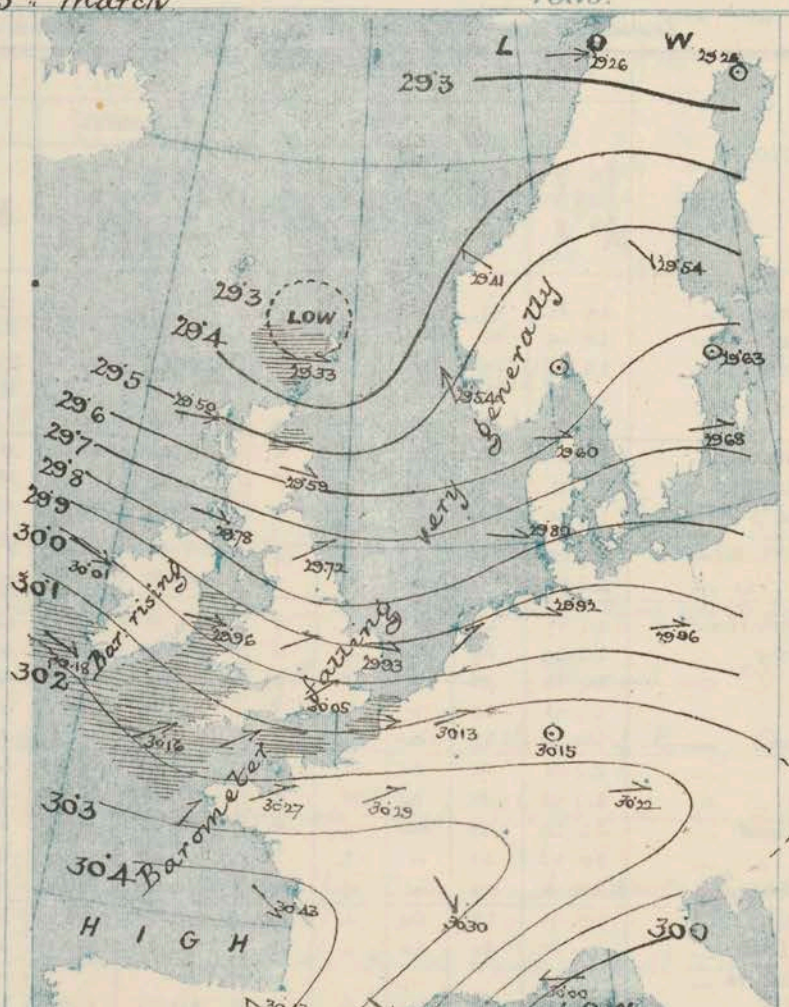
— Rough — High

MEAN HEIGHT of the BAROMETER

at 6 a.m. for the month of March.

During the 15 Years 1871—1885.

STATIONS.	MEAN READINGS.
	in.
Sumburgh Head	29.751
Stornoway	29.779
Wick	29.797
Nairn	29.815
Aberdeen	29.830
Leith	29.862
Shields	29.896
York	29.925
Loughborough	29.948
Ardrossan	29.876
Donaghadee	29.892
Holyhead	29.919
Liverpool	29.925
Parsonstown	29.940
Valencia	29.938
Roche's Point	30.941
Pembroke	29.944
Scilly	29.966
Jersey	29.971
Hurst Castle	29.966
Dover	29.955
LONDON	29.967
Oxford	29.966
Cambridge	29.957
Yarmouth	29.938



TEMPERATURE, & WEATHER at 8 A.M., with RAINFALL in PAST 24 HOURS.

Temperature — Isotherms are drawn for each 10° changes since previous morning are stated in words.

Weather — is shown by Letters of the Beaufort Scale.

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

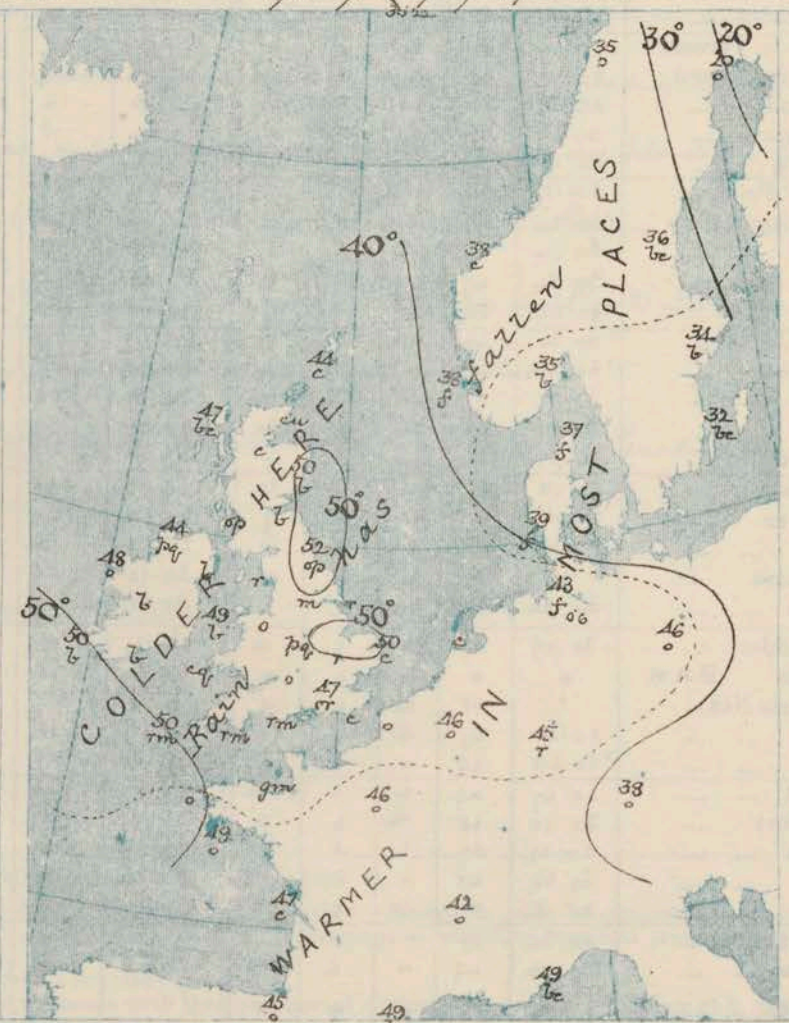
MEANS OF TEMPERATURE IN SHADE.

AND RAINFALL.

for the month of March.

STATIONS.	TEMPERATURE.				RAINFALL. (Inches.)
	Daily Max.	Daily Min.	at 8 a.m.		
			Dry	Wet	
Sumburgh Head	42.6	34.0	38.5	37.1	2.92
Stornoway	44.9	34.4	39.2	38.0	3.87
Wick	44.7	33.9	39.1	37.2	1.97
Nairn	45.6	34.2	38.2	36.3	1.72
Aberdeen	45.4	34.7	38.9	36.8	2.24
Leith	48.2	34.6	39.7	37.9	1.36
Shields	45.9	35.4	39.6	38.0	1.60
York	48.0	33.7	38.6	37.1	1.63
Loughborough	49.8	34.3	39.5	37.7	1.47
Ardrossan	46.8	36.6	40.5	38.7	2.59
Donaghadee	47.8	37.1	41.0	39.7	1.99
Holyhead	47.6	39.2	42.5	41.0	2.21
Liverpool	47.3	37.1	40.8	38.7	1.69
Parsonstown	50.1	35.5	41.2	39.6	2.35
Valencia	51.6	40.6	45.4	43.4	4.24
Roche's Point	50.2	40.0	43.8	42.1	3.71
Pembroke	47.1	39.5	42.6	40.8	2.45
Scilly	49.9	43.0	46.5	44.7	2.38
Jersey	49.9	40.5	44.7	42.7	2.32
Hurst Castle	48.3	37.7	41.6	40.7	1.80
Dover	46.9	37.8	41.6	39.9	1.86
LONDON	50.6	35.8	40.6	38.7	1.43
Oxford	49.5	35.2	39.4	37.9	1.52
Cambridge	50.6	33.3	39.2	37.7	1.33
Yarmouth	45.7	35.8	40.8	39.1	1.77

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



GENERAL SITUATION AT 8 A.M.

PRESSURE

Highest, 30.30 to about 30.45 ins: over the Bay of Biscay, France, and the north of Spain.
 Lowest, 29.3 ins: and less, in a small depression lying near the Shetland Islands, and in a larger disturbance over Scotland.
 Gradients rather steep for W winds over the British Isles and North Sea, and for NE winds over the southeast of France.
 Barometer falling except apparently in the west of Ireland.

TEMPERATURE

Highest, 51° at Shields, 51° at Brest, 50° at Leilly, Valenciennes, Yarmouth, Loughborough, York, and Aberdeen, 48° in the south of France, 48° at Antwerp.
 Lowest, 20° at Haparanda, 32° at Moby, 35° at Bodo and Tuerlain.
 It was very high (60° to 66°) in several parts of Great Britain yesterday.

WIND

Mainly W (SW to NW) over the British Isles and North Sea, SE in the west of Norway.
 Strong, and squally at most exposed stations, moderate elsewhere.
 Over the southern parts of France, is NW to NE.

WEATHER

Bright and clear at present in the west of our Islands, cloudy and unsettled elsewhere, with rain in several places.
 Rain fell very generally yesterday or in the night except over France and Spain.
 The fall was greatest (about 0.4 ins) at some of our northwestern stations.

SEA

Rather rough, except on our northeastern and eastern coast and over the Bay of Biscay.

PROBABLE CHANGES IN SYSTEM NOW PREVALENT

A continuation of showery, changeable weather seems probable, with considerable variations in temperature, and W (NW to SW) winds.

FORECASTS

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

DISTRICTS.

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

FORECASTS.

W and NW winds, becoming strong, squally and showery.
 Wind veering to NW; colder, squally, showery, with bright intervals.

DISTRICTS.

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

FORECASTS.

Same as Nos 0 to 2.
 Wind changeable between NW and SW; squally, rainy, very unsettled.
 The SOUTH CONE was hoisted last evening in districts 5, 8, and 10, and is still up.

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.
Skudesnæboe ...	29.73	42	41	SSW 1	0	3	Holyhead ...	30.14	49	48	SW 5	7	5
Stumburgh Head ...							Valencia ...						
Stornoway ...	29.69	52	52	W 5	0	5	Silly ...						
Aberdeen ...							Jersey ...	30.40	50	48	W 4	0	3
Shields ...							Dungeness ...	30.21	45	45	W 5	1	4
Ardrossan ...							London ...						*
Malin Head ...	29.91	50	50	SW 6	0	4	Yarmouth ...						
Mullaghmore ...							Rocheport ...	30.54	52	47	WNW 3	6	2
Belmullet ...	29.98	51	51	SW 4	0	*							

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 in an anticyclone lying over the Bay of Biscay, and lowest 29.1 ins. and less, in a depression lying off the northwest of Norway. A large area of low readings (29.7 ins. and less) was however, reported over Central Russia, while another area of relatively low reading (30.1 ins. and less) existed over the central parts of the Mediterranean. Over northwestern and central Europe the prevailing winds were SW⁴ or W⁴, and in the west and south of our Islands they blew strongly. Over Sweden and the Baltic however, light S⁴ breezes were reported, while over southern Europe the wind was NE⁴ or N⁴. The weather was fine in France, Spain, northern Italy, and the southern parts of Germany and Austria, but cloudy or overcast elsewhere, with fog in Denmark, rain in many parts of northwestern and central Europe, and snow at some of the Russian stations. Temperature had fallen in Russia, Spain, Algeria and south Italy, but risen elsewhere; readings ranged from a little above 55° at some of the Mediterranean stations, and a little above 50° in the west and north of our Islands, to between 5° and 10° over Lapland and Finland. The highest individual readings, were 57° at Brindisi, 56° at Sanguinaire, 54° at Shields and Cagliari, 53° at Leith, Liverpool and Lesina, and 52° at Donaghadee; the lowest were 5° at Kuopio and Helmingfors, 6° at Uleaborg and Hangö, 8° at Haparanda, 17° at St. Petersburg and Riga, 24° at Archangel, 25° at Moscow, 27° at Hernösand, 28° at Kiew, 29° at Kharkov, and 31° at Mémel. In the course of the day the sky cleared over Great Britain, and temperature rose to a maximum of 63° at Loughborough, 65° at Cambridge and 66° at Aberdeen. In the evening however, the barometer was again falling in the west of Ireland, and unsettled weather appeared to be again spreading over the Kingdom.

SUMMARY OF CHANGES IN THE WEATHER OVER THE BRITISH ISLANDS AND THEIR NEIGHBOURHOOD. FROM THE 17th TO THE 23rd MAR. 1889.

The weather of the past week has been generally changeable and unsettled, with some heavy falls of rain over the northern parts of England and Ireland. Snow or sleet was experienced over Great Britain on the 21st, and solar halos were seen over England on the 23rd. At the commencement of the period an anticyclone lay over the Bay of Biscay and the west of France, while a large depression was travelling eastwards across Lapland. On the 16th however, the anticyclone moved away in a southeasterly direction, and a long continued fall of the barometer set in over western Europe. No definite depression was however, observed until the evening of the 19th, when the centre of a rather deep disturbance appeared off the west of Ireland. During the ensuing night the system travelled eastwards to the north of England, and on the 20th and 21st it moved southeasterly to western Germany, where it eventually filled up. In the front of the disturbance gradients were slight, but in its rear the barometer rose quickly, the wind increased to a gale from the northeastward, with showers of snow and sleet. As the depression moved away an anticyclone appeared over our west and southwest districts, and gradually extended eastwards across France and the south of England. On the night of the 22nd however, a large depression appeared off our extreme northwest coasts, and in the course of the following 24 hours this travelled eastwards to Scandinavia. Its progress was marked by strong SW⁴ winds and rain on all our north and northwest coasts, and by a decided rise of temperature over the entire Kingdom. At the close of the week shallow secondary disturbances were approaching from the westward, and the unsettled weather seemed to be extending eastwards. Temperature has upon the whole differed little from the average. On the 20th and 21st however, when NE⁴ winds extended over the country a decided fall of the thermometer took place, and cold weather was experienced generally. Sharp frost was experienced over Great Britain on the night of the 21st and over the central parts of England on the night of the 22nd; on the latter occasion the thermometer in London fell to 25° on the grass.

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, March 26th 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.	Force. (0 to 12.)	Weather.	Sea. (0 to 9.)	SHADE TEMP.		Amount of Rainfall.			
			Dir.	Force. (0 to 12.)				Dry.	Wet.					Max.	Min.				
SCANDINAVIA.																			
Häperanda ..	29.33	14	2	0	b	29.41	+15	10	10	-10	N	2	b	*	27	?	-		
Hernösand ...	29.35	36	2	0	o	29.14	-37	29	28	-7	NNE	6	S	*	46	27	0.28		
Stockholm ...	29.40	34	2	0	o	29.30	-33	37	36	+3	WSW	2	o	*	50	27	0.08		
Wisby ...	29.50	38	SSW	4	o	29.45	-23	37	36	+5	S	4	b	*	?	28	0.04		
Bodö ...	29.35	33	2	0	b	29.33	+07	38	29	-2	ENE	4	C	2	36	28	-		
Christiansund...	29.14	39	ESE	3	o	29.20	-21	40	39	+2	Z	0	P	4	?	36	0.08		
Skudesnaes ...	29.36	40	WNW	6	r	29.23	-31	37	36	-1	SSE	4	o	4	41	37	0.13		
Christiania Fjord (Fjorder)	29.27	35	SW	4	b	29.28	-29	37	36	+2	WSW	4	b	4	?	34	0.04		
Skagen (The Scaw)	29.36	37	WNW	5	b	29.38	-22	37	37	0	W	2	m	1	43	36	0.08		
Fanö ...	29.60	36	WSW	3	b	29.34	-26	37	37	-2	WSW	2	C	*	41	36	0.12		
BRITISH ISLANDS.																			
Sumburgh Head	29.17	42	W	6	cp	29.43	+10	37	37	-7	N	8	r	7	48	35	0.14		
Sornoway ..	29.56	41	WNW	6	q, h, r, p	29.06	+46	37	36	-10	WNW	7	S	6	48	33	0.10		
Wick ...	29.40	42	WNW	8	C	29.71	+24	37	36	-9	WNW	8	OSW	4	49	35	0.05		
Nairn ...	29.55	44	W	4	C	29.86	+30	37	35	-10	WNW	5	OP	3	51	35	0.05		
Aberdeen...	29.56	46	W	6	bq	29.73	+14	37	34	-13	NW	8	CQSW	5	55	35	0.01		
Leith ...	29.68	43	W	4	b	29.86	+17	41	36	-8	WNW	3	C	*	53	37	-		
Shields ...	29.74	47	WSW	3	b	29.84	+12	42	39	-10	NW	4	C	2	54	35	-		
Spurn Head ...	29.81	47	WSW	6	b	29.82	-01	42	39	-7	NW	6	bc	4	50	40	-		
York ...	29.81	49	W	4	b	29.83	+03	42	38	-3	WNW	4	bc	*	57	38	0.01		
Loughborough	29.92	50	WNW	4	b	29.91	-00	43	39	-7	NW	4	bc	*	55	40	-		
Ardrossan ...	29.80	46	W	6	o	29.96	+18	41	39	-7	NW	7	b	5	50	38	0.04		
Malin Head ...	29.89	43	NW	6	bq, p	30.09	+28	41	39	-3	NW	5	bcq, p	5	47	37	0.06		
Mullaghmore ...	30.12	48	WNW	6	o	30.24	+26	46	43	-2	WNW	5	bc	*	50	43	0.05		
Belmullet ...	29.93	44	WNW	6	b	30.04	+15	40	38	-7	WNW	6	bcq, p	5	53	40	0.12		
Barrow-in-Furness	29.90	43	W	4	bc	29.91	+06	42	39	-3	NW	5	cp	*	48	40	0.09		
Liverpool (Bidston)	29.93	45	W	6	bc	29.94	+07	42	39	-4	WNW	7	bc	5	51	39	0.05		
Holyhead ...	30.07	42	WNW	5	bcq, p	30.04	+08	43	41	-6	NW	6	CQ, p	6	53	42	0.01		
Parsonstown ...	30.13	48	WNW	2	C	30.22	+18	42	40	-4	WNW	2	bc	*	53	40	0.03		
Valencia ...	30.26	50	WNW	4	bm	30.33	+15	48	42	-2	WNW	4	CQ	4	55	46	-		
Roche's Point...	30.17	49	WNW	5	b	30.24	+12	46	42	-3	WNW	5	b	4	53	44	-		
Pembroke ...	30.08	48	WNW	5	b	30.16	+12	44	41	-4	NW	6	bcq	4	50	44	0.01		
Scilly ...	30.17	50	WNW	5	b	30.22	+06	46	44	-2	NW	6	C	5	51	46	0.01		
Prawle Point ...	30.10	49	NW	4	bc	30.15	-00	46	43	-1	NW	4	bc	3	53	39	0.02		
Jersey ...	30.10	48	W	4	b	30.14	-13	47	42	-1	WNW	5	bm	4	50	43	0.03		
Hurst Castle ...	30.01	50	WNW	4	b	30.04	-07	45	43	0	WNW	6	b	4	55	41	0.03		
Dunoon ...	29.89	45	W	4	m	29.89	-19	42	40	-3	WNW	4	b	3	47	38	0.05		
London ...	29.94	52	WNW	3	bc	29.93	-12	43	40	-4	NW	3	bc	*	58	40	0.05		
Oxford ...	30.00	46	WNW	3	b	29.99	-03	42	39	-6	WNW	4	r	*	58	40	-		
Cambridge ...	29.92	50	W	1	b	29.88	-08	45	41	-4	NW	2	b	*	59	38	0.02		
Yarmouth ...	29.84	50	NW	4	C	29.81	-12	42	40	-8	NW	4	C	3	55	38	-		
Cuxhaven ...	29.71	42	WSW	3	r	29.64	-28	39	38	-4	WSW	2	b	*	45	38	0.26		
Berlin ...	29.81	49	W	4	r	29.64	-32	44	43	-2	W	2	r	*	50	43	0.12		
Wiesbaden ...	*	*	*	*	*	29.76	-39	45	43	0	NW	2	o	*	54	43	0.20		
Munich ...	30.02	41	SW	2	o	29.78	-44	38	38	0	W	4	r	*	46	37	0.12		
GERMANY.																			
The Helder ...	29.80	42	WSW	2	bc	29.72	-25	41	39	-2	W	2	C	3	45	39	0.28		
Brussels 9 A.M.	*	*	*	*	*	29.86	-27	41	39	-5	W	3	C	*	53	41	0.28		
Cape Gris Nez...	?	43	SW	5	o	?	?	41	39	-4	WNW	5	bc	5	46	41	0.08		
Paris ...	30.05	48	SW	3	o	30.02	-27	44	41	-2	NW	3	bc	*	53	42	0.08		
Brest ...	30.20	50	WSW	4	C	30.27	-09	48	46	-3	WNW	4	o	?	?	?	-		
Lorient ...	30.17	49	W	4	b	30.20	-17	45	43	-4	NW	4	b	4	50	41	0.08		
Rochefort ...	30.27	50	W	5	r	30.19	-24	45	44	-2	NW	5	b	2	54	41	?		
Belfort ...	29.94	40	W	1	o	29.82	-45	44	43	+1	W	1	o	*	46	37	0.12		
Lyons ...	30.14	44	WNW	4	o	29.97	-33	40	40	-2	WNW	1	p	*	48	39	0.16		
Nice ...	29.73	60	E	2	b	29.56	-44	53	44	+4	E	4	C	0	63	41	-		
Perpignan ...	30.05	51	NW	7	b	29.93	-29	53	47	+4	NW	4	o	*	57	47	-		
Biarritz ...	? 30.36	50	W	3	b	30.23	-20	50	45	0	N	4	o	3	52	45	0.28		
FRANCE & NETHERLANDS.																			
Corunna ...	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*		
Lisbon ...	30.33	55	N	4	b	30.32	-08	53	49	+5	N	5	b	5	66	50	-		
FINLAND.																			

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 26th March

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.

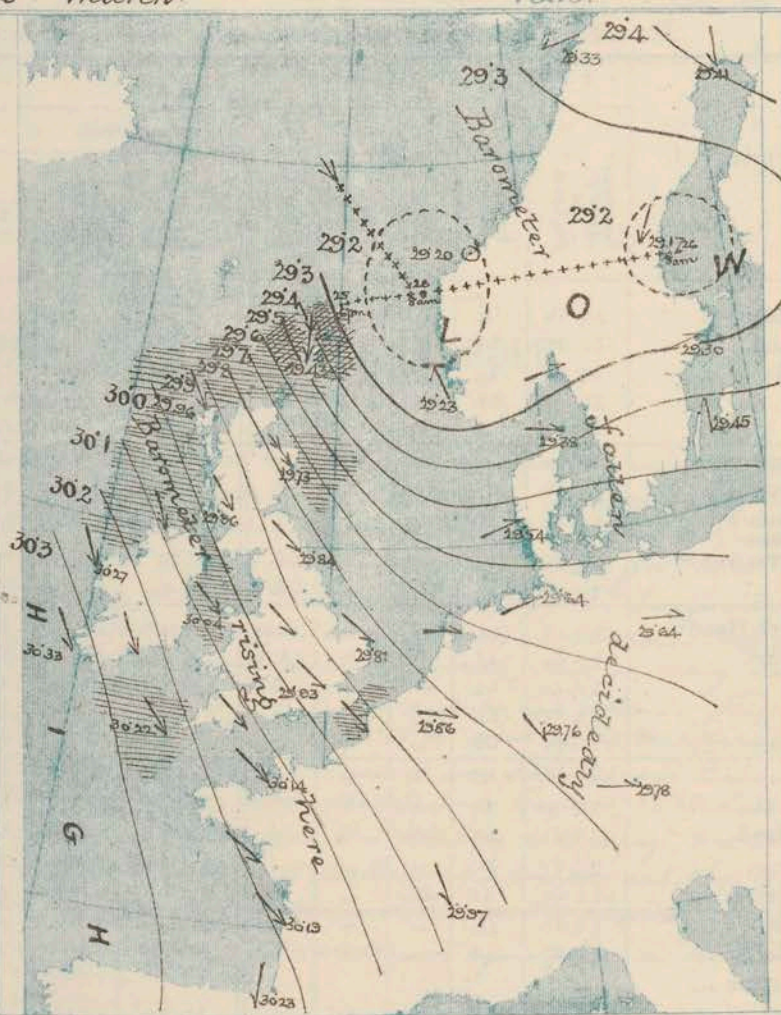
Sea Disturbance — where considerable, is shown thus.

■ = Rough ■ = High.

MEAN HEIGHT of the BAROMETER

at 6 a.m. for the month of March.
 During the 15 Years 1871-1885.

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



TEMPERATURE & WEATHER at 8 A.M., with RAINFALL in PAST 24 HOURS.

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

Weather — is shown by Letters of the Beaufort Scale.

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

MEANS OF TEMPERATURE IN SHADE.

AND RAINFALL.
 for the month of March.

STATIONS	TEMPERATURE.				RAINFALL. (Inches)
	Daily Max.	Daily Min.	at 3 a.m.		
			Dry.	Wet.	
Sumburgh Head.	42.6	34.0	38.5	37.1	2.02
Stornoway.	44.9	34.4	39.2	38.0	3.87
Wick.	44.7	33.9	39.1	37.2	1.97
Nairn.	45.6	34.2	38.2	36.3	1.72
Aberdeen.	45.4	34.7	38.9	36.8	2.24
Leith.	48.2	34.6	39.7	37.9	1.36
Shields.	45.9	35.4	39.6	38.0	1.60
York.	48.9	32.7	38.6	37.1	1.63
Loughborough.	49.8	34.3	39.5	37.7	1.47
Ardrossan.	46.8	36.6	40.5	38.7	2.59
Donaghadee.	47.3	37.1	41.0	39.7	1.99
Holyhead.	47.6	39.2	42.5	41.0	2.21
Liverpool.	47.3	37.1	40.8	38.7	1.69
Parsonstown.	50.1	35.5	41.2	39.6	2.35
Valencia.	51.6	40.6	45.4	43.4	4.24
Roche's Point.	50.2	40.0	43.8	42.1	3.71
Pembroke.	47.1	39.5	42.6	40.8	2.45
Scilly.	49.9	43.0	46.5	44.7	2.38
Jersey.	49.9	40.5	44.7	42.7	2.32
Hurst Castle.	48.3	37.7	41.6	40.7	1.80
Dover.	46.9	37.8	41.6	39.9	1.86
LONDON.	50.6	35.8	40.6	38.7	1.43
Oxford.	49.5	35.2	39.4	37.9	1.52
Cambridge.	50.6	38.3	39.2	37.7	1.33
Yarmouth.	45.7	35.8	40.8	39.1	1.77

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



GENERAL SITUATION AT 8 A.M.

PRESSURE	Highest, 30.20 in: apparently to about 30.40 in: over Spain, the west of France, the Bay of Biscay, and southwest of our Islands. Lowest, 29.2 in: and less, in a complete depression, lying over Sweden and Norway. Gradients, steep for NW winds between Scotland and Norway, moderate over Ireland and England. Barometer rising on our northern, western and southern coasts, falling over the Continent generally.
TEMPERATURE	Highest, 53° at Dublin, 50° at Birmingham, 48° at Valencia, 46° at Kilmallit, 43° at Holyhead and in London. Lowest, 10° F. at Haparanda, 13° at Helsingfors, 17° at Kuchinass, the Scaw, and the NE Scotch stations, 38° at Munich, 35° at Copenhagen and at Laffjord. It has fallen generally - most in Scotland, and is still falling over England, after being as high as 57° at York, 58° in London and 53° at York yesterday.
WIND	NW ⁴ throughout our Islands and the west and north of France; fresh to strong in most places and blowing rapidly in Scotland. W, light, over Germany, SW to S over the Baltic, N over Sweden.
WEATHER	Clear at present over Ireland and England - snow and sleet squalls in Scotland, the latter appear likely to become general. Light rain showers fell very generally yesterday.
SEA	High in the north, rough in the west, rather so in east and south, moderate over the Bay of Biscay.

PROBABLE CHANGES IN SYSTEM NOW PREVALENT

A continuation of strong squally NW⁴ winds is probable in most places, with cold showers during the daytime, but finer and much colder weather inland at night. The gale in Scotland seems likely to subside very gradually.

FORECASTS

for the 24 hours ending at NOON on 27th March 1889.

DISTRICTS.	FORECASTS.	DISTRICTS.	FORECASTS.
0 { SCOTLAND NORTH	{ NW ⁴ winds, strong but moderating; some cold showers.	6 { SCOTLAND WEST	{ Same as Nos 0 and 1.
1 { SCOTLAND EAST		7 { ENGLAND N. W.	
2 { ENGLAND N. E.	{ NW ⁴ winds, strong, squally, a few cold showers. Fair and very cold at night.	8 { ENGLAND S. W.	{ NW ⁴ winds, fresh or strong; gusty, very little rain or sleet.
3 { ENGLAND EAST		9 { IRELAND NORTH	
4 { MIDLAND COUNTIES		10 { IRELAND SOUTH	
5 { ENGLAND SOUTH			
		WARNINGS	NONE ISSUED.

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

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

YESTERDAY'S 2 P.M. REPORTS.

	Bar.	Dry.	Wet.	Wind.	Wea.	Sea.		Bar.	Dry.	Wet.	Wind.	Wea.	Sea.
Skudeanaes ...	29.45	41	41	WSW 1	o f	4	Holyhead ...	30.02	52	49	W 5	cp	4
Sumburgh Head ...	29.20	45	44	W 6	o	6	Valencia ...	30.25	55	50	NW 3	bcm	4
Stornoway ...	29.55	42	41	NW 6	op	5	Scilly ...	30.17	51	49	NW 6	c	5
Aberdeen ...	29.57	53	45	W 6	b c q	4	Jersey ...	30.15	49	48	WSW 5	o	4
Shields ...	29.73	53	45	WSW 5	b c	2	Dungeness ...	29.95	45	45	W 5	f	4
Ardrossan ...	29.75	50	46	WNW 6	c	5	London ...	29.94	56	53	W 3	cp	4
Malin Head ...	29.88	44	42	WNW 5	o	5	Yarmouth ...	29.84	54	52	WNW 5	c	3
Mullaghmore ...							Rochefort ...	30.38	53	50	WNW 4	o	2
Belmullet ...	30.10	50	47	WNW 6	op	*							

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, in an anticyclone lying over the Bay of Biscay, and north of Spain. The lowest readings, 29.3 ins: and less, were found in a large area lying over Lapland, and also in a small depression lying to the northward of the Shetlands, but a large disturbance, with readings below 29.7 ins: was reported over Sicily and the adjacent parts of the Mediterranean. With the exception of the west of Norway, where SE⁴ or E² breezes were general, the prevailing winds over northwestern, northern, and Central Europe were W⁴, and in the south and extreme north of our Islands they blew strongly. Over the south of France, however, and also in Algeria the wind was NW⁴, while in Spain and Italy it was light or moderate from the NE⁴. The weather was fair at several of the Irish and Scotch stations, as well as in Sweden, Spain, and the south of France, but cloudy, or overcast elsewhere, with fog over Denmark, North Germany, the south of Norway and the Baltic Provinces, rain over England, Central Germany, and Tunis, and snow at Annale. Temperature had fallen a little in the west and north of our Islands and also in Norway, but risen in most other localities; readings ranged from between 50° and 60° on the shores of the Mediterranean to several degrees below the freezing point over Russia and the north of Sweden. The highest individual readings were 53° at Cagliari, 58° at Brindisi, 57° at Palma, 55° at Oporto, Barcelona and Malta, 52° at Legonia and La Felle, and 51° at Sanguinaria; the lowest were 8° at Moscow, 19° at Stango, 20° at Kaparanda, 23° at Kharkov, 24° at Uleaborg and Kuopio, 26° at St. Petersburg, 27° at Archangel and Krasnaya, 28° at Hermannstadt, and 32° at Riga and Kiev. At Annale (Central Algeria) the thermometer was as low as 35°.

In the course of the day the depression to the northward of our Islands moved eastwards, but owing to the development of further low pressure systems in the same neighbourhood the wind in the extreme north of Scotland rose to again from the NW² with showers of snow or sleet. Colder weather gradually extended southwards 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 WEDNESDAY 27TH MARCH 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.	Reading at 32° F. and Sea Level.	Difference from 8 a.m. yesterday.	SHADE TEMP.			WIND.	Force. (0 to 12.)	Weather.	Sea. (0 to 9.)	SHADE TEMP.		Amount of Rainfall.		
			Dir.	Force. (0 to 12.)				Dry.	Wet.	Difference from 8 a.m. yesterday.					Max.	Min.			
SCANDINAVIA.																			
Haparanda ..	29.45	21	2	0	bc	29.54	+1.13	21	19	+11	N	2	C	*	28	27	—		
Hernösand ...	29.38	27	2	0	C	29.63	+1.46	32	30	+2	NNW	4	bc	*	34	25	0.04		
Stockholm ...	29.47	37	WNW	2	bc	29.64	+1.34	33	30	-4	NNW	4	bc	*	46	?	—		
Wisby ...	29.55	36	SW	4	bc	29.67	+1.22	34	?	-3	WNW	4	bc	*	36	28	—		
Bodö ...	29.57	32	2	0	bc	29.63	+1.30	30	27	-3	SW	4	C	2	36	28	—		
Christiansund...	29.67	36	N	4	bc	30.01	+1.81	35	31	-5	N	4	bc	5	39	32	0.20		
Skudesnaes ...	29.54	39	NW	4	bc	30.02	+1.79	37	32	0	NNW	4	bc	1	43	34	—		
Christiania Fjord (Færder)	29.45	36	SW	3	bc	29.83	+1.33	37	33	0	NNW	4	bc	1	37	30	—		
Skagen (The Bear)	29.49	37	2	0	bc	29.76	+1.38	36	34	-1	NNE	4	C	3	43	34	0.12		
Fanø ...	29.47	37	WNW	4	bc	29.73	+1.19	35	35	-2	NNE	5	0	*	43	?	0.08		
BRITISH ISLANDS.																			
Sumburgh Head	29.98	34	N	7	0	30.28	+1.85	36	33	-1	N	2	C	5	39	31	0.02		
Sornoway ...	30.23	38	N	5	0	30.35	+1.33	37	35	0	2	0	bc	3	40	29	0.02		
Wick ...	30.10	36	WNW	6	0	30.36	+1.65	36	34	-1	WNW	3	0	2	36	33	0.02		
Nairn ...	30.18	37	WNW	5	0	30.36	+1.50	35	33	-2	2	0	bc	1	42	33	—		
Aberdeen...	30.07	36	NW	8	bc	30.37	+1.64	37	33	0	NW	2	C	4	40	35	—		
Leith ...	30.10	39	WNW	4	bc	30.38	+1.52	37	32	-4	N	1	bc	5	43	31	—		
Shields ...	30.02	40	NNW	5	C	30.31	+1.47	39	35	-3	NNW	4	0	5	44	36	—		
Spurn Head ...	29.98	41	NW	6	C	30.23	+1.41	41	38	-1	N	6	C	5	43	35	0.01		
York ...	29.99	42	NNW	2	0	30.27	+1.44	39	35	-3	N	3	0	*	45	35	—		
Loughborough	30.05	43	WNW	3	0	30.32	+1.41	38	34	-5	NW	2	0	*	40	35	—		
GERMANY.																			
Ardrasan ...	30.14	41	NW	5	bc	30.39	+1.43	35	33	-6	ENE	2	bc	2	46	28	—		
Malin Head ...	30.26	40	NNW	5	0	30.39	+1.30	40	37	-1	NE	1	C	3	44	40	—		
Mullaghmore ...	30.30	44	NNW	5	C	30.41	?	39	37	?	SE	2	C	3	53	35	—		
Belmullet ...	30.35	46	N	5	0	30.40	+1.13	41	40	-5	SSE	3	0	*	34.8	39	—		
Donaghadee ...	30.20	42	N	7	bc	30.41	+1.37	40	38	0	ENE	4	bc	3	45	38	0.01		
FRANCE & NETHERLANDS.																			
Barrow-in-Furness	30.19	43	NW	5	C	30.33	+1.42	32	30	-10	N	2	bc	*	46	31	—		
Liverpool (Bidston)	30.11	42	WNW	6	bc	30.39	+1.42	37	32	-5	NNE	1	bc	3	45	32	—		
Holyhead ...	30.20	42	NNW	6	bc	30.40	+1.36	41	38	-2	ENE	2	bc	2	45	38	—		
Parsonstown ...	30.31	45	NW	1	C	30.43	+1.21	30	29	-12	2	0	C	*	50	28	—		
Valencia ...	30.37	48	N	3	cm	30.42	+1.10	45	42	-3	SSE	1	cm	2	52	40	—		
Roche's Point...	30.20	48	NNW	5	bc	30.43	+1.19	40	37	-6	N	1	bc	3	52	35	—		
Pembroke ...	30.20	46	NNW	4	bc	30.37	+1.21	42	39	-2	N	4	bc	2	49	38	—		
Seilly ...	30.25	49	NW	5	bc	30.37	+1.15	45	41	-3	NNW	4	bc	4	50	43	—		
Prawle Point ...	30.19	44	NNW	4	bc	30.34	+1.19	43	38	-3	N	4	bc	3	52	33	—		
Jersey ...	30.13	48	NW	4	bc	30.32	+1.18	44	40	-3	NNW	3	cm	3	51	41	—		
GERMANY.																			
Hurst Castle ...	30.10	44	WNW	6	bc	30.32	+1.28	39	36	-6	N	3	m	2	53	33	0.01		
Dungeness ...	29.98	41	N	4	C	30.21	+1.22	40	36	-2	N	6	C	4	48	35	0.02		
London ...	30.05	42	NW	3	cm	30.27	+1.24	38	34	-5	N	2	0	*	47	37	0.01		
Oxford ...	30.13	42	WNW	4	0	30.34	+1.35	35	32	-7	NNW	3	C	*	47	32	0.01		
Cambridge ...	30.05	41	N	1	0	30.27	+1.39	39	36	-6	NW	2	0	*	49	35	—		
FRANCE & NETHERLANDS.																			
Yarmouth ...	29.92	41	NNW	5	C	30.14	+1.33	41	39	-1	N	5	ccg	5	45	38	0.03		
Cuxhaven ...	29.66	42	N	4	C	29.66	+1.02	39	38	0	NNW	6	0	*	43	37	0.02		
Berlin ...	29.70	43	N	2	bc	29.75	+1.11	37	36	-7	SW	3	0	*	50	34	0.12		
Wiesbaden ...	*	*	*	*	*	29.92	+1.16	40	38	-5	N	2	0	*	48	37	—		
Munich ...	29.79	37	N	4	0	29.85	+1.07	33	33	-5	N	5	5	*	41	32	0.32		
FRANCE & NETHERLANDS.																			
The Helder ...	29.82	39	NW	4	bc	29.95	+1.23	38	37	-3	NNW	6	0	4	41	37	0.04		
Brussels ...	?	41	N	5	0	30.07	+1.21	40	37	-1	NNW	2	bc	*	47	39	0.16		
Cape Gris Nez...	?	41	N	5	0	?	?	38	35	-3	N	6	C	7	46	37	—		
Paris ...	29.99	40	NNW	3	0	30.15	+1.13	38	36	-6	NNW	5	0	*	49	37	0.04		
Brest ...	30.27	49	NNW	6	bc	30.37	+1.10	44	42	-4	NNE	2	0	2	52	39	—		
Lorient ...	30.19	48	NNW	6	C	30.30	+1.10	42	38	-3	NNE	4	bc	4	50	41	—		
Rochefort ...	30.16	49	NW	6	C	30.25	+1.06	42	40	-3	NNW	5	bc	3	52	36	—		
Belfort ...	29.89	39	N	1	0	29.95	+1.13	40	37	-4	NW	1	C	*	48	36	0.08		
Lyons ...	29.95	38	N	4	bc	29.97	0.00	35	33	-5	N	6	5	*	48	33	0.12		
Nice ...	29.67	50	E	2	0	29.48	-1.08	50	44	-3	ESE	1	0	3	61	45	—		
Perpignan ...	29.91	50	NW	7	0	29.92	-0.01	44	38	-9	NW	6	C	*	58	39	0.12		
Biarritz ...	30.23	51	NNW	5	0	30.24	+1.01	48	41	-2	N	6	0	4	54	41	0.08		
GERMANY.																			
Corunna ...	*	*	*	*	*	30.42	+1.04	52	49	-1	NE	2	0	4	57	43	—		
Lisbon ...	30.25	50	NNW	5	bc	30.25	-0.07	52	48	-1	NNE	4	bc	3	64	50	—		

WEATHER CHARTS

for 8 a.m. on Wednesday, 27th March.

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.

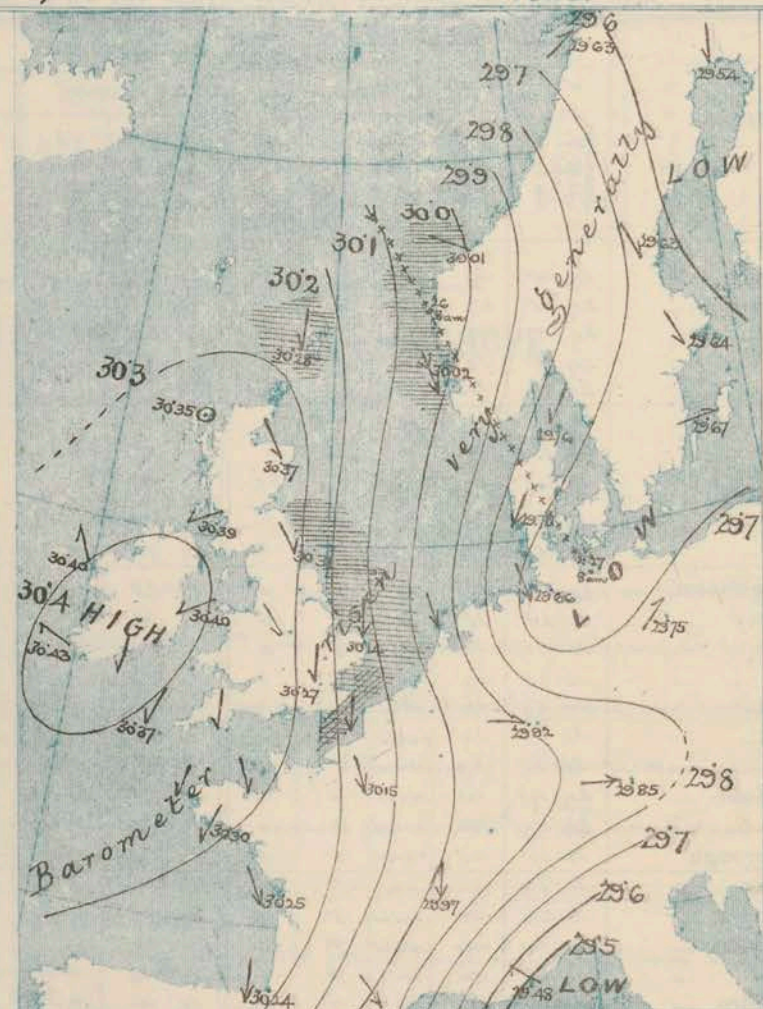
Sea Disturbance — where considerable is shown thus.

— Rough — High

MEAN HEIGHT of the BAROMETER

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

STATIONS	MEAN READINGS
Sumburgh Head	29.751
Stornoway	29.779
Wick	29.797
Nairn	29.815
Aberdeen	29.830
Leith	29.802
Shields	29.896
York	29.925
Loughborough	29.948
Ardrossan	29.876
Donaghadee	29.892
Holyhead	29.919
Liverpool	29.925
Parsonstown	29.940
Valencia	29.938
Roche's Point	29.941
Pembroke	29.944
Scilly	29.966
Jersey	29.971
Hurst Castle	29.966
Dover	29.955
LONDON	29.967
Oxford	29.960
Cambridge	29.957
Yarmouth	29.938



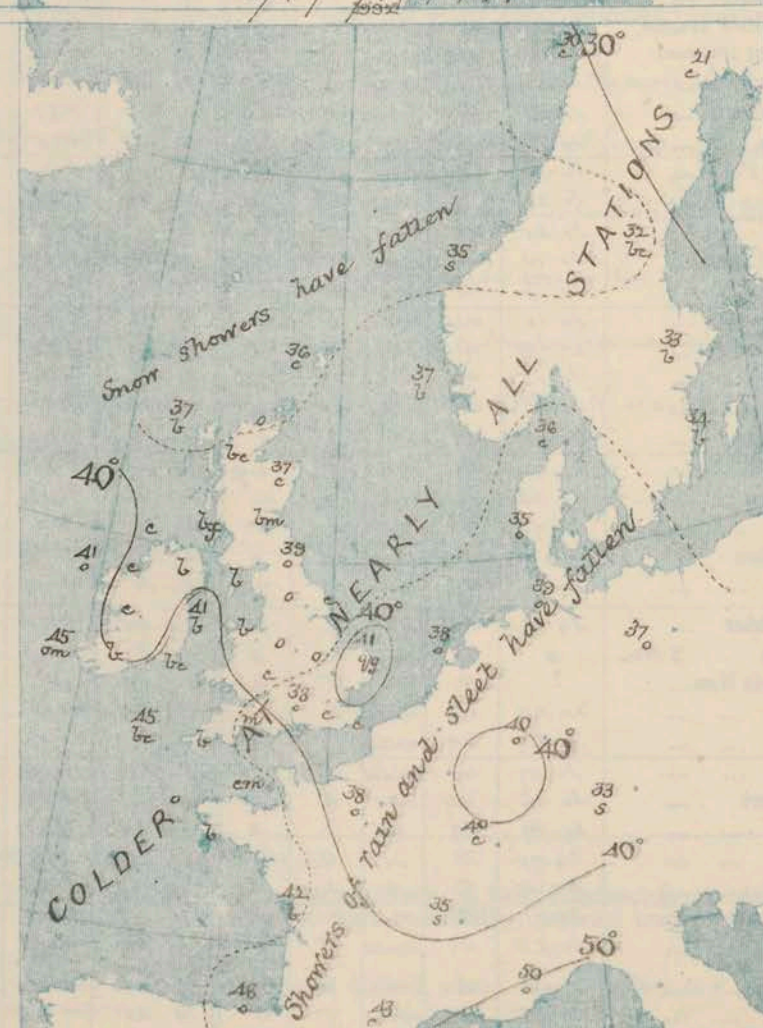
TEMPERATURE, & WEATHER at 8 A.M., with RAINFALL in PAST 24 HOURS.

Temperature — Isotherms are drawn for each 10° Changes since previous morning are stated in words.
Weather — is shown by Letters of the Beaufort Scale.
Rainfall — A dotted line separates the districts in which rain has fallen from those where there has been none. Falls of 0.5 in. or more, are quoted in figures.

MEANS OF TEMPERATURE IN SHADE. AND RAINFALL. for the month of March.

STATIONS	TEMPERATURE.				RAINFALL. (Inches.)
	Daily Max.	Daily Min.	at 8 a.m.		
			Dry	Wet	
Sumburgh Head	42.6	34.0	38.5	37.1	2.92
Stornoway	44.9	34.4	39.2	38.0	3.87
Wick	44.7	33.9	39.1	37.2	1.97
Nairn	45.6	34.2	38.2	36.3	1.72
Aberdeen	45.4	34.7	38.9	36.8	2.24
Leith	48.2	34.6	39.7	37.9	1.86
Shields	45.2	35.4	39.6	38.0	1.60
York	48.9	33.7	38.6	37.1	1.63
Loughborough	49.8	34.3	39.5	37.7	1.47
Ardrossan	46.8	36.6	40.5	38.7	2.59
Donaghadee	47.3	37.1	41.0	39.7	1.99
Holyhead	47.6	39.2	42.5	41.0	2.21
Liverpool	47.3	37.1	40.8	38.7	1.69
Parsonstown	50.1	35.5	41.2	39.6	2.85
Valencia	51.6	40.6	45.4	43.4	4.24
Roche's Point	50.2	40.0	43.8	42.1	3.71
Pembroke	47.1	39.5	42.6	40.8	2.45
Scilly	49.9	43.0	46.5	44.7	2.38
Jersey	49.9	40.5	44.7	42.7	2.32
Hurst Castle	48.3	37.7	41.6	40.7	1.80
Dover	46.9	37.8	41.6	39.9	1.86
LONDON	50.6	35.8	40.6	38.7	1.43
Oxford	49.5	35.2	39.4	37.9	1.52
Cambridge	50.6	33.3	39.2	37.7	1.33
Yarmouth	45.7	35.8	40.8	39.1	1.77

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



GENERAL SITUATION AT 8 A.M.

PRESSURE

Highest, 30.5 in: to 30.4 in: and more, over Scotland, Ireland, and the western parts of England and Brittany.
Lowest, 29.5 in: and less, in a depression over the northern part of the Mediterranean, 29.6 in: and less, in another one over Iceland, and 29.7 in: and less, in a secondary system lying over Heligoland and Mecklenburg.
Barometer rising generally, most in the northeast and east.

TEMPERATURE

Highest, 52° at Lisbon, 50° at Nice, 48° at Biarritz, 45° at Valence and daily 44° at Paris, and 40° at Malindiard.
Lowest, 21° at Hafnarfjörður, 30° at Parsonstown, 33° at Stockholm, 37° at Berlin, 38° at Paris and in London.
At Parsonstown it has been as low as 28° in the shade this morning.

WIND

N² strong, over the North Sea and east coast of England—moderate in the Channel and north of France.
N² to NW², strong, over the southern half of France, W² to SW² over Germany.
Calms and light anticyclonic breezes prevail in Ireland and Scotland.

WEATHER

Cloudy and dull over the eastern parts of our area, except in Sweden and the south of Norway.
Clear and bright in the west, as a whole, but becoming overcast again in the extreme west of Ireland.
Showers of snow, sleet, and cold rain fell at our northern and eastern stations yesterday.

SEA

Rather rough (but going down) in the northeast and east, moderate on our southeast coast and over the Bay of Biscay, slight & smooth elsewhere.

PROBABLE CHANGES IN SYSTEM NOW PREVALENT

As the anticyclone in the west moves southeastwards dry and very cold weather will probably be caused over England; in the west and north, however, S² and SW² winds are likely to set in shortly with a considerable recovery of temperature which will subsequently spread to the English coast.

FORECASTS

For the 24 hours ending at NOON on 28th March 1889.

DISTRICTS.

FORECASTS.

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

Wind becoming SW² and freshening; milder, fine to showery.
N² and NW² winds, becoming moderate or light; a few slight showers, then fair. Very cold tonight.
Wind fresh from N. today, cloudy; falling light tonight, with clear and very cold weather.

DISTRICTS.



FORECASTS.

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

Very light winds; fair as a whole, with rising temperature.
Same as N^o 5.
Same as N^o 0 and 1.

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.	Wea.	Sea.		Bar.	Dry.	Wet.	Wind.	Wea.	Sea.
Skudesness ...	29.37	42	41	ENE 2	rf	4	Holyhead ...	30.14	45	41	NNW 6	bca	6
Sumburgh Head ...	29.80	36	36	N 7	0	7	Valencia ...	30.37	52	46	NW 2	cm	4
Stornoway ...	30.14	40	39	NNW 6	0	5	Scilly ...	30.24	50	45	NNW 6	c	6
Aberdeen ...	29.92	37	34	NW 8	ogt rpu	6	Jersey ...	30.13	51	45	NNW 5	c	4
Shields ...	29.93	44	37	NW 4	0	4	Dungeness ...	29.93	41	40	NNW 4	c p	3
Ardrossan ...	30.07	45	42	NW 6	0	4	London ...	29.97	46	41	NW 4	0	*
Malin Head ...	30.20	43	39	NNW 6	c	5	Yarmouth ...	29.88	43	41	NW 5	c	4
Mullaghmore ...							Rochefort ...	30.20	50	47	NW 5	c	3
Belmullet ...	30.03	49	45	NNW 5	c	*							

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

The report for yesterday morning showed that pressure was highest, 30.3 ins. and upwards, in a large anticyclone lying to the southward of our Islands and the westward of Iberian Peninsula and lowest, 29.2 ins. and less, in two depressions lying respectively over Central Sweden and the west of Norway. Another disturbance, with reading below 29.5 ins., was, however, reported over Central Italy, while a small depression, with similar reading was lying over the northern part of the Adriatic. The wind was fresh or strong from the NW over our Islands, with gale in the north and east of Scotland, and moderate from the same quarter in France. Over Denmark, Germany, and the Netherlands, however, light or moderate W^{ly} breezes were reported, while over the Baltic the winds drew into SW. or S., and in the north of Scandinavia into E. or NE. Over the Mediterranean a cyclonic circulation was shown round the Italian depression, and on the Algerian and Tunisian coast the W^{ly} and NW^{ly} winds blew strongly. The weather was fine over the southern parts of the United Kingdom, as well as in France, Spain and Western Algeria. Elsewhere, however, the sky was cloudy or overcast, with snow showers in Scotland, and rain over Germany, as well as at some of the Mediterranean stations. Temperature had risen quickly over Central Russia, and to less extent over Southern Europe, but fallen elsewhere; readings ranged from considerably above 55° at some of the Mediterranean stations to several degrees below the freezing point over Lapland and Finland. The highest individual readings were 62° at Barcelona and Oran, 58° at Langunsia and Brindisi, 56° at Algiers, 55° at Sfor, 54° at Alessia, Cagliari, and Laiballe, and 53° at Formica, Lisbon, Kiev, and Perpignan, Lifford, Rome, and Malta; the lowest were 10° at Haparanda, 13° at Kuopio, 14° at Uleaborg, 22° at Archangel, 24° at St. Petersburg, 29° at Skutumpah, 31° at Moscow, 32° at Helsinki, and 33° at Rodei and Hangö.

In the course of the day the depressions over Northern Europe both moved southwards and the gale on the Scotch coast gradually subsided. Cold showers were, however, experienced in most 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 Thursday, 28th March, 1889.

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

Issued by the Meteorological Office, 55, Victoria Street, London, W. 1. 1907.

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.	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 ..	29.62	21	NE	2	b	29.82	+ .28	17	16	- .4	7	4	bc	*	30	14	-		
Hernösand ...	29.84	33	NW	5	bc	30.04	+ .41	27	24	- .5	2	4	b	*	41	25	-		
Stockholm ...	29.84	31	NW	2	b	30.02	+ .38	28	25	- .5	NW	4	b	*	39	?	-		
Wisby ...	29.86	33	NW	4	o	29.97	+ .30	30	29	- .4	7	6	b	*	?	27	-		
Bodö ...	29.92	29	NW	6	bc	29.87	+ .24	31	28	+ .1	SSE	4	o	2	?	27	-		
Christiansund...	30.12	37	W	4	o	30.07	+ .06	38	36	+ .3	SW	6	o	5	39	34	0.04		
Skudesnaes ...	30.23	37	NW	6	o	30.24	+ .22	39	37	+ .2	NW	2	o	3	41	36	-		
Christiania Fjord (Færdar)	30.02	38	WSW	3	b	30.15	+ .32	34	32	- .3	W	0	b	1	39	34	-		
Skagen (The Scaw)	30.07	34	NNE	1	b	30.16	+ .40	36	34	0	W	0	b	0	41	32	-		
Faro ...	30.16	34	N	4	b	30.25	+ .52	35	34	0	WSW	2	b	*	45	28	-		
BRITISH ISLANDS.																			
Sumburgh Head	30.29	38	W	0	c	30.12	- .16	41	40	+ .5	SW	2	o	4	42	35	-		
Stornoway ...	30.26	41	W	4	c	30.12	- .23	45	45	+ .8	W	5	c	4	45	34	-		
Wick ...	30.30	38	SW	2	bc	30.14	- .22	42	40	+ .6	SW	2	bc	1	45	35	-		
Nairn ...	30.30	39	W	0	b	30.17	- .19	44	42	+ .9	NW	2	b	1	45	33	-		
Aberdeen...	30.36	38	SSE	2	b	30.22	- .15	38	36	+ .1	W	1	bm	3	45	31	-		
Leith ...	30.35	39	E	1	b	30.27	- .11	43	40	+ .6	W	1	cm	*	44	34	-		
Shields ...	30.39	38	W	0	bc	30.33	+ .02	38	35	- .1	SW	2	o	3	44	30	-		
Spurn Head ...	30.36	40	NNE	6	c	30.39	+ .16	38	36	- .3	NW	4	b	3	43	33	-		
York ...	30.36	41	NNE	1	b	30.37	+ .10	38	36	- .1	SW	1	o	*	45	39	-		
Loughborough	30.40	43	NNE	2	b	30.43	+ .11	37	35	- .1	WSW	1	o	*	48	27	-		
Ardrossan ...	30.37	42	SW	3	bc	30.29	- .10	44	44	+ .9	SSW	3	op	3	44	34	0.04		
Malin Head ...	30.33	45	W	1	cm	30.22	- .17	48	48	+ .8	SW	4	o2	3	48	38	0.51		
Mullaghmore ...	30.35	46	S	4	cm	30.29	- .12	50	50	+ .11	SSW	5	rm	3	50	38	0.43		
Belmullet ...	30.32	48	SSW	5	cm	30.31	- .09	50	50	+ .9	WSW	4	o	*	50	41	0.28		
Donaghadee ...	30.40	42	SSW	2	c	30.30	- .11	43	43	+ .3	SSW	3	r	1	45	39	0.44		
Barrow-in-Furness	30.40	40	NW	3	b	30.38	+ .05	44	40	+ .9	SW	3	r	*	43	32	0.09		
Liverpool (Bidston)	30.42	38	NW	1	b	30.42	+ .03	39	37	+ .2	SSW	1	o	2	42	33	-		
Holyhead ...	30.43	40	W	0	b	30.41	+ .01	44	43	+ .3	SSW	5	dm	4	45	36	0.01		
Parsonstown ...	30.40	39	W	0	c	30.38	- .05	47	45	+ .17	SW	1	r	*	51	30	0.05		
Valencia ...	30.41	49	S	3	bc	30.40	- .03	51	51	+ .6	SSW	4	cm	4	51	44	0.02		
Roche's Point...	30.43	45	SSW	3	bc	30.44	+ .01	48	47	+ .8	SW	3	f	4	48	39	-		
Pembroke ...	30.43	42	NW	2	b	30.47	+ .10	45	43	+ .3	SSW	4	c	3	47	37	-		
Seilly ...	30.43	45	N	2	bc	30.50	+ .13	46	43	+ .1	SW	3	bc	3	47	40	-		
Prawle Point ...	30.43	41	WSW	2	b	30.52	+ .18	42	40	- .1	W	2	c	2	46	34	-		
Jersey ...	30.42	44	N	3	bm	30.54	+ .22	39	37	- .5	NE	1	bm	1	46	32	-		
Hurst Castle ...	30.40	49	NNE	3	m	30.51	+ .19	36	34	- .3	NNE	1	m	1	48	27	-		
Dungeness ...	30.31	44	NNE	6	c	30.48	+ .27	34	32	- .6	NW	3	m	2	46	29	-		
London ...	30.39	43	N	2	b	30.49	+ .22	36	32	- .2	SW	1	b	*	47	28	-		
Oxford ...	30.44	37	W	0	b	30.49	+ .15	33	31	- .2	NW	1	o	*	49	27	-		
Cambridge ...	30.40	41	N	3	o	30.47	+ .20	36	32	- .3	SW	1	b	*	48	23	-		
Yarmouth ...	30.32	40	N	5	cqq	30.42	+ .28	38	37	- .3	NW	3	b	4	43	33	-		
Cuxhaven ...	30.02	40	N	3	o	30.26	+ .60	38	37	- .1	NW	2	b	*	41	35	-		
Berlin ...	29.90	41	NW	4	r	30.18	+ .43	35	33	- .2	NW	4	b	*	43	32	-		
Wiesbaden ...	*	*	*	*	*	30.30	+ .38	38	34	- .2	N	2	b	*	45	34	-		
Munich ...	29.94	33	W	4	S	30.12	+ .27	33	33	0	NW	3	S	*	36	32	0.08		
FRANCE & NETHERLANDS.																			
The Helder ...	30.26	38	N	3	c	30.38	+ .43	39	37	+ .1	N	2	bc	3	41	36	-		
Brussels 9 A.M.	*	*	*	*	*	30.45	+ .38	37	34	- .3	NNE	1	o	*	42	33	0.04		
Cape Gris Nez...	?	40	NE	6	o	?	?	37	33	- .1	N	3	o	3	45	36	-		
Paris ...	30.24	41	N	4	o	30.45	+ .30	37	?	- .1	NNE	4	o	*	45	35	-		
Brest ...	30.47	44	N	2	bc	30.56	+ .19	36	33	- .8	W	0	b	1	54	34	-		
Lorient ...	30.39	46	NE	4	b	30.51	+ .21	38	36	- .4	NNE	3	b	2	50	36	-		
Rochefort ...	30.33	48	N	4	c	30.49	+ .24	38	36	- .4	NNE	4	b	2	52	32	-		
Belfort ...	29.96	39	NW	1	c	30.22	+ .27	39	37	- .1	N	1	o	*	44	?	-		
Lyons ...	30.06	40	NW	5	r	30.21	+ .24	37	34	+ .2	N	6	o	*	41	?	-		
Nice ...	29.61	51	SW	3	c	29.82	+ .34	47	39	- .3	NE	2	bc	1	61	41	-		
Perpignan ...	30.05	45	NW	5	c	30.14	+ .22	40	36	- .4	NW	6	bc	*	50	40	-		
Biarritz ...	30.32	48	N	5	o	30.44	+ .20	40	39	- .8	NNE	3	b	3	50	?	-		
SPAIN.																			
Corunna ...	*	*	*	*	*	30.32	+ .07	51	44	- .1	NNE	5	b	2	66	48	-		
Lisbon ...	30.23	52	N	5	b												-		

For Explanation of ... see p. 4.

Received too late for insertion in Charts on p. 2

WEATHER CHARTS

for 8 a.m. on Thursday, 28th March

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.

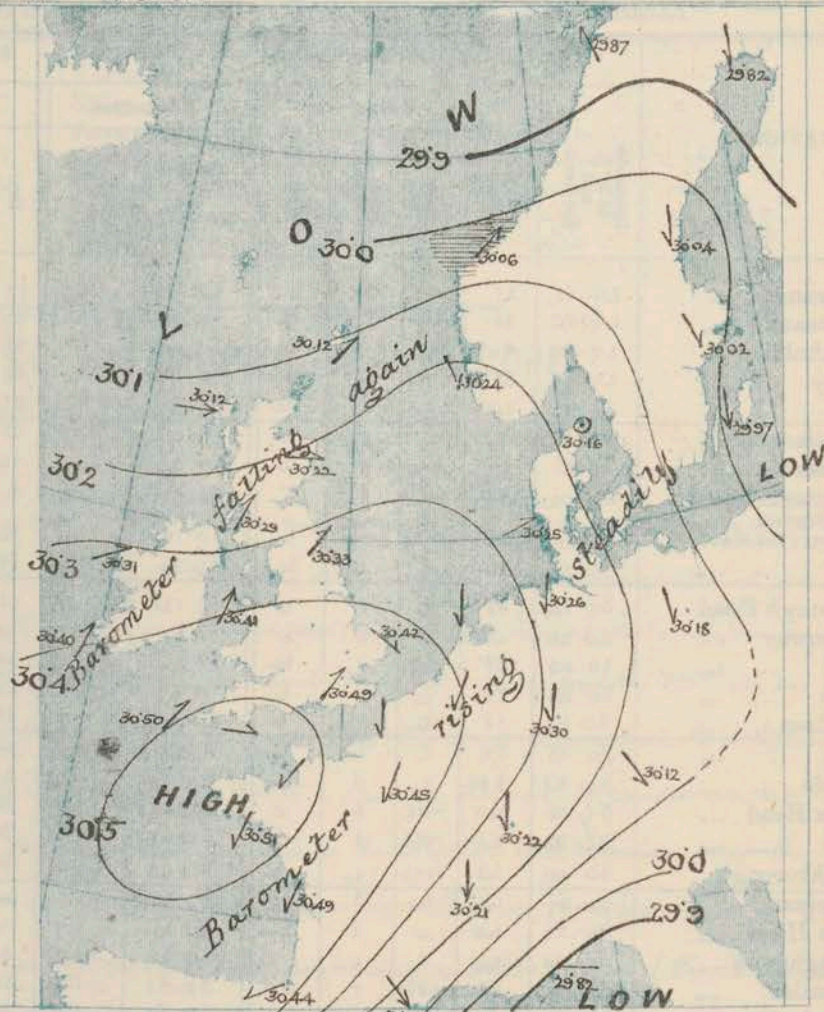
Sea Disturbance — where considerable, is shown thus.

— Rough. — High.

MEAN HEIGHT of the BAROMETER

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

STATIONS.	MEAN READINGS.
Sumburgh Head	29.751
Stornoway	29.779
Wick	29.797
Nairn	29.815
Aberdeen	29.830
Leith	29.852
Shields	29.886
York	29.925
Loughborough	29.948
Ardrossan	29.876
Donaghadee	29.892
Holyhead	29.919
Liverpool	29.925
Parsonstown	29.940
Valencia	29.938
Roche's Point	29.941
Pembroke	29.944
Scilly	29.966
Jersey	29.971
Hurst Castle	29.966
Dover	29.955
LONDON	29.967
Oxford	29.956
Cambridge	29.957
Yarmouth	29.938



TEMPERATURE, & WEATHER at 8 A.M., with RAINFALL in PAST 24 HOURS.

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

Weather — is shown by Letters of the Beaufort Scale.

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

MEANS OF TEMPERATURE IN SHADE.

AND RAINFALL.

for the month of March.

STATIONS	TEMPERATURE.				RAINFALL (Inches)
	Daily Max.	Daily Min.	at 8 a.m.		
			Dry.	Wet.	
Sumburgh Head	42.6	34.0	38.5	37.1	2.92
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Leith	48.2	34.6	39.7	37.9	1.36
Shields	45.9	35.4	39.6	38.0	1.60
York	48.9	33.7	39.6	37.1	1.63
Loughborough	49.8	34.3	39.5	37.7	1.47
Ardrossan	46.8	36.6	40.5	38.7	2.59
Donaghadee	47.3	37.1	41.0	39.7	1.99
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Parsonstown	50.1	35.5	41.2	39.6	2.35
Valencia	51.6	40.6	45.4	43.4	4.24
Roche's Point	50.2	40.0	43.8	42.1	3.71
Pembroke	47.1	39.5	42.6	40.8	2.46
Scilly	49.9	43.0	46.5	44.7	2.38
Jersey	49.9	40.8	44.7	42.7	2.32
Hurst Castle	48.8	37.7	41.6	40.7	1.80
Dover	46.9	37.8	41.6	39.0	1.86
LONDON	50.6	35.8	40.6	38.7	1.43
Oxford	49.5	35.2	39.4	37.9	1.52
Cambridge	50.6	33.3	39.2	37.7	1.33
Yarmouth	45.7	35.8	40.8	39.1	1.77

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



GENERAL SITUATION AT 8 A.M.

PRESSURE

Highest, 30.40 to about 30.55 in.; in an anticyclone lying over the Channel, the north of France, and the southern part of England and Ireland.
Lowest, 30.1 in. and less, off our northern coast, 30.0 in. and less, over the Baltic, 29.9 in. and less, over the Gulf of Genoa.
Gradients slight except over Switzerland and the southeast of France, where they are rather steep for N.E. winds.
Barometer falling in the north and west (not quickly) rising decidedly over France, Germany, and the North Sea.

TEMPERATURE

Highest, 51° at Limerick and Valencia (Ireland), 50° at Belmullet and Mullaghmore, 46° at Bally, 45° at Stornoway.
Lowest, 17° at Haparanda, 28° at Stockholm, 33° at Oxford, 34° at Dungeness, 35° at Farn and Berlin, 36° in London and at Brest.
It has been as low (in the shade) as 23° at Cambridge, 27° at Goughborough, Oxford, and Hurst Castle and 28° in London during the night. On the grass it fell to 17° in the south of London.

WIND

SW^{ly}, light to moderate, over nearly the whole of the British Isles and in the northwest of Norway.
N^{ly} in nearly all other places, light over the Channel, moderate to strong over France and the Baltic.
The SW^{ly} wind is freshening in the extreme northwest.

WEATHER

Fine and bright over the Continent and in the east and southeast of England, dull and unsettled in the west and north, with good deal of rain over the northern part of Ireland. Hoar frost was formed over the southeast of England early this morning.
Cirrus cloud moving from N.W. is observed at Aberdeen [and from N.E. in London later].

SEA

Rather rough at Christiania and moderate on our western and northern coast and at Yarmouth, slight in the northeast, smooth in the south.

PROBABLE CHANGES IN SYSTEM NOW PREVALENT

The unsettled, showery, mild weather in the west and northwest is likely to spread all over England during the coming 24 hours, and there are some indications that the wind will subsequently veer to W. and N.W. again and increase in force generally. The indications are, however, not sufficiently decided at present to warrant the issue of warnings to our western and northern coasts.

FORECASTS

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

DISTRICTS.

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

FORECASTS.

SW^{ly} to NW^{ly} winds, very changeable and unsettled; rain and sleet at times.

SW^{ly} breezes, light to moderate; fair to unsettled and perhaps showery.

DISTRICTS.

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

FORECASTS.

Same as Nos 0 to 2

Same as Nos 3 to 5, wind veering later.

Same as Nos 3 to 5.

SW^{ly} to NW^{ly} winds, very changeable and unsettled, showery, becoming colder again.

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 ...	30.15	41	36	NNW 7	b	4	Holyhead ...	30.43	44	39	NNW 1	b	2
Sumburgh Head ...	30.81	40	36	WNW 2	bc	4	Valencia ...	30.41	49	45	ESE 4	cm	4
Stornoway ...	30.31	44	41	SW 3	b	3	Scilly ...	30.42	47	42	N 2	c	4
Aberdeen ...	30.37	44	37	N 2	b	3	Jersey ...	30.39	45	39	N 4	bc	3
Shields ...	30.39	43	37	N 3	bc	5	Dungeness ...	30.23	46	39	NNE 6	c	5
Ardrossan ...	30.38	44	41	NW 1	bc	1	London ...	30.32	46	39	N 3	c	*
Malin Head ...	30.37	44	40	E 2	c	1	Yarmouth ...	30.24	42	40	N 5	ogg	5
Mullaghmore ...	30.38	47	43	SW 3	c	3	Rocheport ...	30.31	50	44	NNW 5	bc	2
Belmullet ...	30.37	48	45	S 5	o	*							

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 whose eastern edge extended from the north of Ireland to the northwest of Spain, but relatively high, 29.9 ins: and upwards, over the southern parts of Central Russia. The lowest readings 29.3 ins: and less, were found in three depressions, lying respectively over the east of Italy, to the southeastward of Sicily, and to the eastward of Corsica, but another depression, with readings below 29.5 ins: was reported over the north of Finland, while a fifth disturbance, of very little depth had its centre near the island of Zealand (Denmark). Over Scandinavia and Western Europe generally the prevailing winds were Nth, and over the eastern and southern parts of the North Sea they were fresh or strong in force, but in the south of France they drew into the NWth, while in Algeria they were chiefly Wth. In Russia light breezes from the Sth were reported, while over Finland, Denmark, North Germany, and the central parts of the Mediterranean cyclonic circulations were shown round one or other of the depressions noticed above. The weather was fine over the British Islands and also over the greater part of Scandinavia, Spain, and the west and south of France. Elsewhere, however, the sky was cloudy or overcast, with fog at several of the Russian stations, rain at Copenhagen, Rome, and Cagliari, and snow at Christiansund and Lyngs. Temperature had risen decidedly over the northern part of Sweden and Russia, but fallen elsewhere; readings ranged from a little above 50° on the coast of the Iberian Peninsula, and above 55° at some of the Mediterranean stations to a few degrees below the freezing point over Lapland and Northern Russia. The highest individual readings were 61° at Oran, 57° at Brindisi, 55° at Barcelona, Algiers, Malta and Jaffa, 54° at Nemours, 53° at Palermo, and 52° at Genoa, Lisbon and Lissias; the lowest were 21° at St. Petersburg, 26° at Archangel and Hangö, 27° at Uleaborg, 29° at Skellefteå, 30° at Bodö and Ronneby, and 32° at Kuopio, Helsingfors, Munkel and Kier.

In the course of the day the barometer began to fall on our extreme western and northwestern coasts and the winds there backed to the SWth or Sth with a rising temperature. Over England, however, the wind remained Nth and sharp frost was experienced at night in London the thermometer on the grass fell to 17°.

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, 29th March,* 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.		Sea. (0 to 5.)	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.)		Weather.	Max.	Min.	Amount of Rainfall.	
SCANDINAVIA.	Haparanda ..	29.61	23	S	2	0	29.30	- 52	24	23	+ 7	NW	4	bc	*	32	12	0.28	
	Hernösand ...	29.81	33	S	2	0	29.68	- 36	26	30	+ 9	NW	8	b	*	48	21	-	
	Stockholm ...	29.94	30	W	2	0	29.71	- 31	35	32	+ 7	W	2	b	*	37	28	-	
	Wisby ...	29.98	29	WNW	6	0	29.80	- 17	33	32	+ 3	WSW	4	0	*	?	26	-	
	Bodö ...	29.49	33	W	6	0	29.58	- 29	33	31	+ 2	WNW	6	c	3	?	28	-	
	Christiansund...	29.87	41	WSW	8	0	29.92	- 15	39	36	+ 1	WSW	3	0	4	41	36	0.04	
	Skudesnaes ...	30.16	37	ESE	2	0	30.00	- 24	39	39	0	E	1	f	3	?	37	0.12	
	Christiania Fjord (Færdar)	30.01	35	SW	4	0	29.83	- 32	39	37	+ 5	SSW	2	b	1	39	34	-	
	Skagen (The Scaw)	30.02	37	NW	1	0	29.84	- 32	40	36	+ 4	NW	2	bc	1	?	36	-	
	Fanö ...	30.23	35	WSW	4	0	30.08	- 17	39	38	+ 4	WNW	4	c	*	45	?	-	
BRITISH ISLANDS.	Sumburgh Head	30.09	44	W	2	0	30.03	- 09	45	45	+ 4	WNW	2	f	4	45	41	0.16	
	Stornoway ...	30.18	51	W	4	0	30.17	+ 05	49	49	+ 4	W	4	0	3	54	44	0.03	
	Wick ...	30.16	53	NW	1	0	30.12	- 02	51	49	+ 9	NW	4	0	1	60	41	0.03	
	Nairn ...	30.18	55	W	1	bc	30.19	+ 02	50	48	+ 6	W	1	bc	1	60	43	-	
	Aberdeen...	30.19	54	S	2	bc	30.20	- 02	54	48	+ 16	W	2	bc	2	56	38	-	
	Leith ...	30.25	51	W	1	c	30.26	- 01	50	47	+ 7	W	3	bc	*	55	41	-	
	Shields ...	30.27	50	WSW	1	0	30.27	- 06	50	48	+ 12	WSW	3	cp	2	53	36	0.01	
	Spurn Head ...	30.32	45	SW	3	0	30.28	- 11	45	44	+ 7	W	3	0	2	47	34	-	
	York ...	?	47	SW	1	0	?	?	49	48	+ 11	W	1	0	*	50	37	-	
	Loughborough	30.39	45	WSW	2	0	30.34	- 09	52	49	+ 15	WNW	2	0	*	52	37	0.01	
GERMANY.	Ardrossan ...	30.30	47	W	0	0	30.30	+ 01	48	47	+ 4	WSW	1	0	1	48	43	0.01	
	Malin Head ...	30.31	48	SW	4	0	30.32	+ 10	47	46	- 1	SSW	3	0	2	49	46	0.06	
	Mullaghmore ...	30.37	50	W	0	c	30.37	+ 08	49	47	- 1	SSW	4	0	2	53	47	0.26	
	Belmullet ...	30.38	51	WSW	5	b	30.36	+ 05	50	49	0	SW	3	0	*	53	48	-	
	Donaghadee ...	30.34	53	W	2	0	30.37	+ 07	46	45	+ 3	W	2	m	0	55	43	0.07	
	Barrow-in-Furness	30.33	47	SSW	2	0	30.35	- 03	46	46	+ 5	NW	3	bc	*	47	40	0.16	
	Liverpool (Bidston)	30.36	47	WSW	4	0	30.38	- 04	47	45	+ 8	W	4	bc	3	48	39	0.30	
	Holyhead ...	30.38	47	SW	5	omg	30.41	00	48	47	+ 4	WNW	1	c	2	52	43	0.17	
	Parsonstown ...	30.41	54	W	0	bc	30.42	+ 04	47	46	0	SW	1	c	*	59	40	-	
	Valencia ...	30.47	52	WSW	2	om	30.48	+ 05	51	47	0	SW	1	0	2	54	47	0.04	
FRANCE & NETHERLANDS.	Roche's Point...	30.45	52	WSW	3	0	30.46	+ 02	49	46	+ 1	W	1	0	3	53	46	-	
	Pembroke ...	30.46	47	SW	4	0	30.44	- 03	47	46	+ 2	NW	2	of	3	47	44	0.03	
	Scilly ...	30.50	50	WSW	4	0	30.46	- 04	50	49	+ 4	WNW	2	om	3	53	45	-	
	Prawle Point ...	30.52	45	W	4	0	30.44	- 08	48	48	+ 6	W	4	om	2	49	40	-	
	Jersey ...	30.55	49	WNW	2	09	30.46	- 08	48	47	+ 9	WNW	3	odm	3	49	38	0.01	
	Hurst Castle ...	30.49	45	W	2	c	30.40	- 11	47	46	+ 11	WNW	1	0	2	49	35	0.03	
	Dungeness ...	30.43	43	SW	5	c	30.32	- 16	44	44	+ 10	W	3	m	2	48	33	0.02	
	London ...	30.44	48	SW	2	0	30.36	- 13	48	48	+ 12	WNW	4	om	*	53	35	0.04	
	Oxford ...	30.43	43	WSW	3	†	30.37	- 12	50	49	+ 14	WNW	3	0	*	51	33	0.06	
	Cambridge ...	30.42	45	WSW	1	0	30.33	- 14	49	49	+ 13	NW	1	d	*	57	33	-	
PENINSULA.	Yarmouth ...	30.38	43	SSW	3	bc	30.30	- 12	47	46	+ 9	W	1	cf	3	47	36	-	
	Cuxhaven ...	30.30	39	NW	4	bc	30.18	- 08	40	39	+ 2	W	4	0	*	41	38	-	
	Berlin ...	30.28	42	NW	3	b	30.13	- 05	38	36	+ 3	WNW	4	0	*	46	?	-	
	Wiesbaden ...	*	*	*	*	*	30.36	+ 06	39	36	+ 1	NW	2	0	*	46	?	-	
	Munich ...	30.35	32	W	2	b	30.33	+ 21	32	30	- 1	SW	4	c	*	37	24	0.04	
	The Helder ...	30.38	39	SW	1	bc	30.27	- 11	41	41	+ 2	WSW	1	f	1	43	39	-	
	Brussels 9.A.M.	*	*	*	*	*	30.36	- 09	35	35	- 2	WSW	1	f	*	43	34	-	
	Cape Gris Nez...	?	39	SW	3	b	?	?	42	41	+ 5	S	1	f	2	46	37	0.04	
	Paris ...	30.49	42	N	2	b	30.45	- 00	34	33	- 3	S	2	0	*	47	30	-	
	Brest ...	30.58	49	WNW	2	0	30.52	- 04	46	43	+ 10	WSW	1	0	*	52	?	-	

For Explanation of Columns, see p. 4.

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

for 8 a.m. on *Friday, 29th March.*

(Explanation of Map)

Sea Disturbance.— where considerable, is shewn thus.

at 6 a m. for the month of March
During the 16 Years 1871.—1885

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.

STATIONS.	TEMPERATURE.				RAINFALL. (Inches.)	
	Daily Max.	Daily Min.	at 5 a.m.			
			Dry.	Wet.		
Sumburgh Head	42·6	34·0	38·5	37·1	2·93	
Stornoway	44·9	34·4	39·2	38·0	3·87	
Wick	44·7	33·9	39·1	37·2	1·97	
Nairn	45·6	34·2	38·2	36·3	1·72	
Aberdeen	45·4	34·7	38·9	36·8	2·34	
Leith	48·2	34·6	39·7	37·9	1·86	
Shields	45·2	35·4	39·6	38·0	1·69	
York	48·9	33·7	38·6	37·1	1·63	
Loughborough	40·8	34·3	39·5	37·7	1·47	
Ardrossan	46·8	36·6	40·5	38·7	2·59	
Donaghadee	47·3	37·1	41·0	39·7	1·96	
Holyhead	47·6	39·2	42·6	41·0	2·21	
Liverpool	47·3	37·1	40·8	38·7	1·69	
Parsonstown	50·1	35·5	41·2	39·6	2·35	
Valencia	51·6	40·6	45·4	43·4	4·24	
Roche's Point	50·2	40·0	43·8	42·1	3·71	
Pembroke	47·1	39·5	42·6	40·8	2·45	
Scilly	49·9	43·0	46·5	44·7	2·38	
Jersey	49·9	40·5	44·7	42·7	2·33	
Hurst Castle	48·3	37·7	41·6	40·7	1·80	
Dover	46·9	37·8	41·6	39·9	1·86	
LONDON	50·6	35·8	40·6	38·7	1·43	
Oxford	49·5	35·2	39·4	37·9	1·52	
Cambridge	50·6	33·3	39·2	37·7	1·33	
Yarmouth	45·3	35·8	40·8	39·1	1·77	

GENERAL SITUATION AT 8 A.M.

PRESSURE

Highest, 30.4 in. to 30.5 in. and more, in an anticyclone system covering the Bay of Biscay, the southwest of our Islands, France and the north of Spain.
 Lowest, 30.2 in. and less, over the Gulf of Genoa, 29.5 in. to 29.7 in. over the Gulf of Bothnia and Finland.
 Gradients slight except over the southwest of France.
 Barometer unsatisfactory; inclined to fall again (after rising) at Valencia.

TEMPERATURE

Highest, 54° at Aberdeen, 52° at Loughborough, 51° at Melk and Valencia, 50° at Naini, Oxford and Kelly, 48° in London.
 Lowest, 24° at Haparanda, 32° at Hurnish, 34° at Belfast and Paris, 35° at Brussels, and 39° at Kilmory.
 It rose to 60° at Melk and Naini, 59° at Paris, 57° at London, and 55° in several parts of our Islands. Now high in our Islands.

WIND

Light to moderate generally — NW¹ and W¹ at the eastern stations.
 W¹ in Scotland — SW¹ to S¹ in Ireland.
 Variable NW¹ to NE¹ over the Bay of Biscay; NE¹ over Spanish Minors.

WEATHER

Clear in Sweden and also in Scotland, cloudy or overcast elsewhere, with damp mist or fog in several places.
 A little rain has fallen except at our northern and eastern stations.

SEA

is very little disturbed.

PROBABLE CHANGES IN SYSTEM NOW PREVALENT

The barometer is now beginning to fall again in the west, and it seems probable that the SW¹ breeze will shortly become general, with very mild changeable weather — and rain in the west.

FORECASTS

for the 24 hours ending at NOON on 30th March. 1889.

DISTRICTS.

FORECASTS.

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

W¹ to SW¹ winds, moderate or light;
 fair to showery, mild.

 NW¹ to SW¹ winds, light; mild,
 changeable, dull and damp then fair.

DISTRICTS.

FORECASTS.

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

S¹ and SW¹ winds freshening;
 some rain.

WARNINGS

NONE ISSUED.

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.	Woa.	Sea.		Bar.	Dry.	Wet.	Wind.	Woa.	Sea.
Skudesnaes ...	30.23	42	38	WSW 2	0	3	Holyhead ...	30.38	47	47	SW 5	dm	5
Sumburgh Head ...	30.10	45	44	W 2	2	4	Valencia ...	30.45	54	53	SW 3	om	3
Stornoway ...	30.15	54	53	SW 3	0	3	Scilly ...	30.51	52	48	WSW 4	c	3
Aberdeen ...	30.19	55	48	SSE 1	6	3	Jersey ...	30.56	48	43	WSW 2	0	4
Shields ...	30.20	51	46	WSW 3	c	3	Dungeness ...	30.48	43	39	SW 4	bc	2
Ardrossan ...	30.27	46	46	SSW 2	0	2	London ...	30.46	52	45	W 3	c	*
Malin Head ...	30.28	49	49	WSW 4	0	3	Yarmouth ...	30.40	42	40	S 4	bc	4
Mullaghmore ...	30.34	52	51	W 4	om	3	Rocheport ...	30.54	51	44	NNE 3	b	2
Belmullet ...	30.26	52	52	WSW 4	0	*							

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

The reports for yesterday morning showed that pressure was highest 30.40 in. to 30.55 in. in an anticyclone lying over the southern parts of our Islands, the west and north of France, the Bay of Biscay and the north of Spain, and lowest, 29.6 in. and less, in a long trough extending northwards from Greece and the eastern parts of the Mediterranean across Western Russia to the southeast of Finland. In the south of Italy there were indications of the existence of a definite but somewhat shallow depression while another shallow disturbance was apparently approaching the north of Scotland from the W. The wind was SW^{ly} over the greater part of the United Kingdom, but N^{ly} in most other parts of the Continent. In Spain and Italy, however, it drew into NE. and in Eastern Algeria into NW, while in Western Algeria it was chiefly S. The weather was fine over Sweden, Denmark and the Baltic, as well as in the south and east of our Islands, the west of France and the greater part of Spain. Elsewhere, however, the sky was cloudy or overcast, with rain in the west of the United Kingdom, and snow at Kuopio, and also at Jämsä, Limburg and Belfort. Temperature had risen several degrees in the west and north of our Islands, but fallen elsewhere; readings ranged from 50° and upwards over Spain, the Mediterranean and the west of Ireland to a few degrees below the freezing point over Sweden and Northern Russia. The highest individual readings were 57° at Oporto and Brindisi, 54° at Cagliari and Malta, 52° at Palermo, 51° at Valencia (Ireland) Corunna and Lisbon, and 50° at Mullaghmore, Belmullet, and several of the Mediterranean stations; the lowest were 14° at Haparanda, 19° at Hangö, 22° at Uleaborg, 26° at Archangel, 27° at Helsingfors, 28° at Stockholm, Riga and Helsingfors and 30° at Misk.

Later in the day a large depression advanced over Scandinavia from the W., and the wind increased to gale from the SW^{ly} in the west of Norway. Over our Islands very little change was experienced beyond a decided rise of temperature.

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, 30th March,* 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.			
				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 ..	29.47	26	NE	4	0	29.73	+ .43	19	18	- 5.	N	2	b	*	36	?	.	
	Hernösand ...	29.68	33	NE	8	b	29.86	+ .18	33	29	- 3	N	4	b	*	45	30	.	
	Stockholm ...	29.71	33	SE	0	b	29.75	+ .04	32	28	- 3	NE	3	b	*	46	32	.	
	Wisby ...	29.71	33	SW	2	b	29.78	+ .07	30	29	- 3	N	4	b	*	?	27	.	
	Bodo ...	29.79	35	WNW	6	0	29.90	+ .32	35	33	+ 2	ENE	2	c	1	36	32	.	
	Christiansund...	30.01	38	ENE	1	c	29.94	+ .02	36	33	- 3	ENE	3	b	3	39	32	.	
	Skudesnaes ...	29.95	39	NE	1	r	29.94	- .06	39	39	0	NE	1	f	5	?	37	.	
	Christiania Fjord (Farder)	29.80	39	SE	0	b	29.92	+ .09	34	30	- 5	N	4	b	1	43	34	.	
	Skagen (The Seaw)	29.75	38	N	1	b	29.88	+ .04	35	31	- 5	ENE	1	c	1	46	34	.	
	Fanø ...	29.93	39	W	6	m	29.87	- .21	37	37	- 2	NE	4	0	*	45	37	.	
BRITISH ISLANDS.	Sumburgh Head	30.03	45	WNW	1	?	29.84	- .19	46	46	+ 1	W	3	rm	4	47	41	0.05	
	Stornoway ...	30.09	52	SW	3	0	29.94	- .23	46	45	- 3	W	4	0	4	54	44	0.05	
	Wick ...	30.12	52	SE	0	bc	29.90	- .22	48	47	- 3	NE	4	0	2	55	47	0.05	
	Nairn ...	30.11	54	SE	0	c	29.93	- .26	49	47	- 1	SE	0	0	1	59	47	0.01	
	Aberdeen...	30.14	54	NE	1	c	29.96	- .24	50	48	- 4	SW	2	or	2	59	49	0.06	
	Leith ...	30.19	51	W	2	c	30.01	- .25	50	48	0	W	1	cm	*	55	41	.	
	Shields ...	30.21	51	W	2	c	30.03	- .24	50	48	0	W	3	op	2	56	47	.	
	Spurn Head ...	30.24	48	W	4	c	30.07	- .21	47	45	+ 2	WSW	3	0	3	55	45	.	
	York ...	30.24	52	W	2	0	30.05	?	49	48	0	W	1	c	*	62	46	.	
	Loughborough	30.32	53	WNW	3	c	30.13	- .21	50	47	- 2	W	2	c	*	62	47	.	
GERMANY.	Ardrossan ...	30.23	47	WSW	3	a	30.02	- .21	46	46	- 2	S	3	p	3	51	45	0.26	
	Molin Head ...	30.23	47	SW	4	op	30.06	- .26	45	45	- 2	NE	3	op	3	49	45	0.12	
	Mullaghmore ...	30.27	51	SW	3	omp	30.13	- .24	47	46	- 2	NE	4	c	2	52	46	0.08	
	Belmullet ...	30.27	50	SW	3	0	30.18	- .18	48	46	- 2	NE	3	b	*	51	45	0.26	
	Donaghadee ...	30.28	52	WSW	2	r	30.07	- .30	47	47	+ 1	WSW	2	r	0	55	46	0.06	
	Barrow-in-Furness	30.28	45	SW	3	bc	30.11	- .24	45	44	- 1	SW	3	c	*	50	44	0.03	
	Liverpool (Bidston)	30.32	49	W	3	0	30.12	- .26	49	46	+ 2	SW	1	0	2	52	46	.	
	Holyhead ...	30.34	48	SW	3	c	30.12	- .29	46	46	- 2	SW	4	rgm	4	50	45	0.01	
	Parsonstown ...	30.34	51	SW	1	0	30.17	- .25	47	46	0	NE	2	0	*	54	46	0.05	
	Valencia ...	30.37	53	SW	3	c	30.27	- .18	49	46	- 2	NE	2	c	3	55	46	0.31	
FRANCE & NETHERLANDS.	Roche's Point...	30.37	52	WSW	4	0	30.20	- .26	49	46	0	NE	4	c	4	53	48	0.02	
	Pembroke ...	30.39	47	WNW	2	c	30.19	- .25	46	46	- 1	SW	4	rf	3	49	46	0.03	
	Scilly ...	30.42	49	WNW	4	0	30.26	- .20	50	49	0	W	5	c	4	52	46	.	
	Prawle Point ...	30.40	53	N	2	0	30.27	- .17	48	48	0	W	2	c	2	55	45	.	
	Jersey ...	30.41	48	NE	3	0	30.30	- .16	46	46	- 2	WNW	3	f	3	51	46	0.02	
	Hurst Castle ...	30.36	54	NE	3	0	30.24	- .16	47	45	0	W	3	c	2	60	44	.	
	Dungeness ...	30.30	49	SW	2	m	30.18	- .14	47	45	+ 3	WNW	3	c	2	53	43	0.01	
	London ...	30.31	55	WNW	1	og	30.18	- .18	48	45	0	WSW	1	0	*	57	41	.	
	Oxford ...	30.32	53	NE	2	0	30.19	- .18	46	45	- 4	WSW	3	0	*	61	45	.	
	Cambridge ...	30.29	53	NE	1	0	30.13	- .20	51	47	+ 2	W	1	c	*	58	41	0.02	
PENINSULA.	Yarmouth ...	30.26	52	SE	0	bc	30.11	- .19	48	47	+ 1	WNW	3	bcf	3	55	44	.	
	Cuxhaven ...	30.03	40	NE	5	b	29.92	- .26	41	40	+ 1	NE	4	f	*	43	39	0.08	
	Berlin ...	29.92	45	WNW	5	r	29.85	- .28	42	41	+ 4	WNW	4	f	*	45	?	0.24	
	Wiesbaden ...	*	*	*	*	*	30.09	- .27	47	46	+ 8	NE	1	0	*	52	?	0.04	
	Munich ...	30.25	36	W	5	0	30.10	- .23	33	33	+ 1	W	?	S	*	39	32	0.12	
	The Helder ...	9.A.M.	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Brussels ...	?	45	SSW	1	?	?	?	43	43	+ 1	WSW	1	b	1	48	41	.	
	Cape Gris Nez...	?	45	SSW	1	0	30.25	- .20	47	46	+ 13	W	1	0	*	50	?	.	
	Paris ...	30.36	48	SSW	1	0	30.38	- .14	49	46	+ 3	WNW	2	0	2	52	37	.	
	Brest ...	30.51	51	N	1	0	30.36	- .16	47	46	+ 1	NE	3	c	2	52	45	.	
FRANCE & NETHERLANDS.	Lorient ...	30.45	50	WNW	4	0	30.36	- .17	49	47	+ 11	NE	2	0	2	54	?	.	
	Rocheport ...	30.46	49	W	4	0	30.21	- .16	39	39	+ 5	W	1	b	*	57	31	0.04	
	Belfort ...	30.22	47	N	2	b	30.36	- .11	51	40	+ 7	NE	4	b	1	57	41	.	
	Lyons ...	30.33	49	NE	3	b	30.03	- .10	51	42	+ 6	NE	4	b	*	59	?	.	
	Nice ...	30.13	53	N	3	b	30.38	- .12	45	41	+ 6	S	2	0	1	52	?	.	
	Perpignan ...	30.29	50	N	3	b	30.25	- .06	53	44	+ 5	NE	4	b	2	66	46	.	
	Biarritz ...	30.45	50	N	3	b	30.25	- .06	53	44	+ 5	NE	4	b	2	66	46	.	
	Corunna ...	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	
	Lisbon ...	30.23	59	N	4	b	30.25	- .06	53	44	+ 5	NE	4	b	2	66	46	.	

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, 30th March 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.

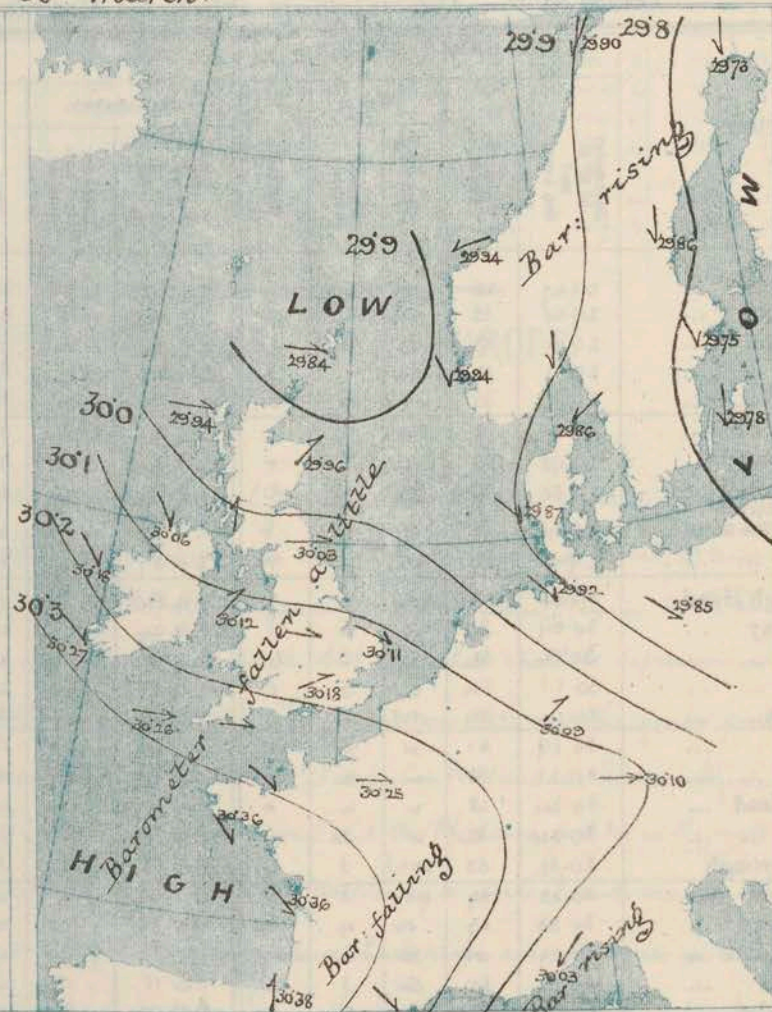
— = Rough. — = High.

MEAN HEIGHT of the BAROMETER

at 8 a.m. for the month of March

During the 15 Years 1871–1885.

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



TEMPERATURE, & WEATHER at 8 A.M., with RAINFALL in PAST 24 HOURS.

Temperature — Isotherms are drawn for each 10° changes since previous morning are stated in words.

Weather — is shown by Letters of the Beaufort Scale.

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

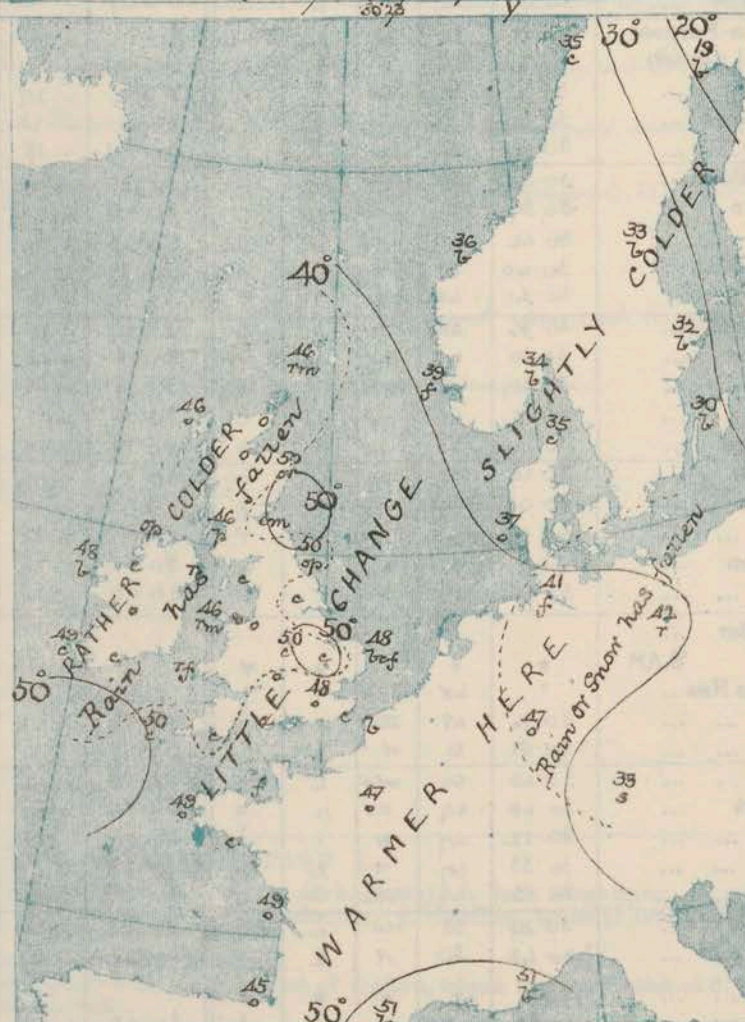
MEANS OF TEMPERATURE IN SHADE.

AND RAINFALL.

for the month of March.

STATIONS.	TEMPERATURE.				RAINFALL. (Inches).
	Daily Max.	Daily Min.	at 8 a.m.		
			Dry.	Wet.	
Sumburgh Head	42.6	34.0	38.5	37.1	2.92
Stornoway	44.9	34.4	39.2	38.0	3.87
Wick	44.7	33.9	39.1	37.2	1.97
Nairn	45.6	34.2	38.2	36.3	1.72
Aberdeen	45.4	34.7	38.9	36.8	2.24
Leith	48.2	34.6	39.7	37.9	1.36
Shields	45.9	35.4	39.6	38.0	1.60
York	48.9	33.7	38.6	37.1	1.63
Loughborough	49.8	34.3	39.5	37.7	1.47
Ardrossan	46.8	36.6	40.5	38.7	2.59
Donaghadee	47.3	37.1	41.0	39.7	1.99
Holyhead	47.6	39.2	42.5	41.0	2.21
Liverpool	47.3	37.1	40.8	38.7	1.69
Parsonstown	50.1	35.5	41.2	39.6	2.35
Valencia	51.6	40.6	45.4	43.4	4.24
Roche's Point	50.2	40.0	43.8	42.1	3.71
Pembroke	47.1	39.5	42.6	40.8	2.45
Scilly	49.9	43.0	46.5	44.7	2.39
Jersey	49.9	40.5	44.7	42.7	2.32
Hurst Castle	48.3	37.7	41.6	40.7	1.80
Dover	46.9	37.8	41.6	39.9	1.86
LONDON	50.6	35.8	40.6	38.7	1.43
Oxford	49.5	35.3	39.4	37.9	1.52
Cambridge	50.6	33.3	39.2	37.7	1.33
Yarmouth	45.7	35.8	40.8	39.1	1.77

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



GENERAL SITUATION AT 8 A.M.

PRESSURE

Highest, 30.2 in: to 30.4 in: over the Bay of Biscay.
 Lowest, 29.9 in: and less, near the Shetland Isles — 29.8 in: and less, over the Baltic and Gulf of Bothnia.
 Gradients slight generally.
 Barometer risen over Scandinavia, fallen elsewhere, beginning to rise again at Valencia.

TEMPERATURE

Highest, 53° at Lybton, 50° at Solby, 49° at Valencia, 46° in London and at Bismarck, 47° at Paris.
 Lowest, 19° at Haparanda, 30° to 33° at the other Swedish stations, 33° at Munich and 37° at Tams.
 It is beginning to fall a little in Ireland and Scotland. It was as high as 62° at York and Loughborough yesterday.

WIND

Light to moderate generally — NW^{ly} to W^{ly} in most places, but W^{ly} to SW^{ly} over England
 NE^{ly} at Kiev.

WEATHER

Clear over Sweden and the southern parts of Europe.
 Cloudy or overcast elsewhere, with misty rain at several of our western and northern stations.

SEA

Moderate in the north and west, slight or smooth elsewhere.

PROBABLE CHANGES IN SYSTEM NOW PREVALENT

The NW^{ly} wind seems likely to spread over England during the coming day, with some fall of temperature and a little rain, followed by finer weather.

FORECASTS

for the 24 hours ending at NOON on 31st MARCH 1889.

DISTRICTS.

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

FORECASTS.

NW^{ly} and W^{ly} breezes, light, fair generally
 but slight local showers.

W^{ly} to NW^{ly} breezes, light; fair,
 somewhat cold tonight.

DISTRICTS.

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


FORECASTS.


Same as N^o 0 to 2.

NW^{ly} breezes, light; fine.

WARNINGS

NONE ISSUED.

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

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

YESTERDAY'S 2 P.M. REPORTS.

	Bar.	Dry.	Wet.	Wind.	Wea.	Sea.		Bar.	Dry.	Wet.	Wind.	Wea.	Sea.
Skudesnaes ...	29.96	44	43	NW 2	r f	3	Holyhead ...	30.38	51	47	WSW 2	c	2
Sumburgh Head ...	30.01	46	46	W 3	f	4	Valencia ...	30.41	54	50	W 5	o	5
Stornoway ...	30.13	53	51	W 3	o	3	Scilly ...	30.44	52	51	WSW 3	o	3
Aberdeen ...	30.16	56	49	WSW 3	c q	2	Jersey ...	30.44	50	49	WSW 3	o	3
Shields ...	30.25	53	48	W 3	o	2	Dungeness ...	30.31	52	50	E 1	f	1
Ardrossan ...	30.28	50	49	WSW 3	o	2	London ...	30.34	56	53	W 1	om	*
Malin Head ...	30.26	49	48	SW 4	o	3	Yarmouth ...	30.27	54	52	W 1	bem	2
Mullaghmore ...	30.33	51	50	SW 5	o d	3	Rochefort ...	30.50	52	47	WSW 3	bc	2
Belmullet ...	30.32	51	50	WSW 4	o	*							

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

The reports for yesterday morning showed that pressure was highest 30.40 ins. to 30.55 ins. in an anticyclone lying over the Bay of Biscay, the greater part of France, the southwest of our Islands and the north of Spain, and lowest 29.3 ins. and less, in a depression lying over Lapland. A large area of low reading, 29.6 ins. and less, was, however, reported over central Russia. The wind was SW^{ly} in the west of Ireland, but W^{ly} or NW^{ly} in nearly all other parts of northwest^{ern} and northern Europe; in force it was light or moderate generally, but in the north of Scandinavia it was strong to a gale. Over the more southern countries NE^{ly} breezes were general, and over the Adriatic they blew strongly, but in Tunis the wind drew into NW, while in western Algeria it was chiefly S^{ly}. The weather was fine in Sweden and the northern parts of the United Kingdom, as well as in Italy, Spain and the south of France, but cloudy or overcast elsewhere, with mist or fog in the south of England, rain at Malta, and snow at Uleaborg. Temperature had risen rapidly over Great Britain, and less decidedly in Scandinavia, Denmark and Germany, but fallen elsewhere; readings ranged from a little above 50° over the Mediterranean and the northern and central parts of the United Kingdom, to a few degrees below the freezing point in the N. of Sweden and the west and north of Russia. The highest individual readings were, 56° at Brindisi, 55° at Cagliari, 54° at Aberdeen, 52° at Loughborough, Sanguinaire, Palermo and Malta, and 51° at Wick. Valencia (Ireland) and Barcelona; the lowest were 18° at Archangel, 19° at Helsingfors, 23° at Riga, 24° at Haparanda, 25° at Kuopio, 26° at Hangö, 27° at Uleaborg, and 28° at Warsaw and Lemberg.

In the course of the day the barometer fell a little in most parts of western Europe, but no important change took place either in the wind or weather. Over central England the thermometer rose to a maximum of from 60° to 62°.

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 31st March 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.		
			Dirac.	Force. (0 to 12.)		Reading at 32° F. and Sea Level.	Difference from 8 a.m. yesterday.	Dry.	Wet.	Difference from 8 a.m. yesterday.	Dirac.	Force. (0 to 12.)			Max.	Min.			
SCANDINAVIA.	Haparanda ..	29.80	16	N	2	b	29.72	- .01	22	21	+	3	N	4	b	*	28	10	—
	Hernösand ..	29.85	31	Z	0	o	29.89	+ .03	26	24	—	7	N	2	b	*	41	?	—
	Stockholm ..	29.85	30	NNW	2	b	29.82	+ .07	30	27	—	2	Z	0	o	*	36	26	—
	Wisby ..	29.83	28	N	4	b	29.85	+ .07	30	30	—	0	NNW	4	c	*	?	27	—
	Bodö ..	29.90	32	Z	0	b	29.81	- .09	28	25	—	7	ENE	4	b	2	36	25	—
	Christiansund ..	29.85	35	ESE	1	b	29.70	- .24	38	34	+	2	ESE	1	o	1	41	32	—
	Skudesnaes ..	29.87	37	S	6	r	29.77	- .17	35	35	—	4	SSE	2	ors	3	?	34	—
	Christiania Fiord (Forde.)	29.87	36	WSW	2	b	29.80	- .12	36	34	+	2	SSW	2	b	1	37	28	—
	Skagen (The Sound)	29.86	33	Z	0	b	29.78	- .10	36	34	+	1	S	1	b	1	39	30	—
	Fanö ..	29.86	36	S	2	b	29.76	- .11	37	36	—	0	SE	3	c	*	46	36	—
BRITISH ISLANDS.	Sumburgh Head	29.82	44	WNW	1	o	29.79	- .05	44	43	—	2	Z	0	c	4	47	38	0.04
	Stornoway ..	29.89	45	W	4	r	29.88	- .06	45	44	—	1	W	4	c	4	51	38	0.09
	Wick ..	29.89	44	Z	0	b	29.80	- .10	45	44	—	3	NNW	2	o	1	50	36	0.03
	Nairn ..	29.90	46	Z	0	bc	29.85	- .08	43	41	—	6	W	1	c	1	5	38	0.12
	Aberdeen ..	29.92	45	NW	1	c	29.86	- .10	43	41	—	7	WNW	2	c	2	52	35	0.14
	Leith ..	29.93	51	W	2	c	29.85	- .16	40	39	—	10	W	1	bc	*	55	37	—
	Shields ..	29.92	51	W	1	o	29.84	- .19	41	40	—	9	W	1	ow	2	55	37	0.01
	Spurn Head ..	29.94	47	WSW	2	o	29.84	- .23	40	39	—	7	WNW	4	c	3	50	39	0.03
	York ..	29.93	50	W	2	r	29.84	- .21	44	41	—	5	WNW	1	b	*	50	34	0.04
	Loughborough	30.00	51	WNW	2	o	29.91	- .22	43	42	—	7	W	1	cw	*	55	37	0.03
GERMANY.	Arrossan ..	30.00	48	W	3	b	29.89	- .13	47	45	+	1	NNW	3	bc	2	50	41	0.02
	Mullin Head ..	30.04	46	W	4	b	29.96	- .10	45	43	—	0	NNW	5	bcpg	4	50	42	0.03
	Mullaghmore ..	30.11	48	W	4	bc	30.03	- .10	47	44	—	0	NNW	5	cpq	4	52	43	0.13
	Belmullet ..	30.14	49	WNW	4	b	30.09	- .09	48	47	—	0	N	4	o	*	51	46	0.08
	Donaghadee ..	30.06	48	NNE	2	bc	29.95	- .12	44	43	—	3	N	3	bc	1	52	43	0.05
	Barrow-in-Farress	30.02	45	NW	3	bc	29.89	- .22	43	42	—	2	NNW	2	op	*	47	42	0.03
	Liverpool (Bidston)	30.04	44	WNW	3	c	29.91	- .21	44	42	—	5	WNW	3	c	3	51	41	0.03
	Holyhead ..	30.08	46	NNW	2	c	29.94	- .18	44	42	—	2	NNW	3	cp	2	50	42	0.02
	Parsonstown ..	30.15	48	W	1	c	30.04	- .13	45	44	—	2	NNW	1	o	*	55	41	0.03
	Valecia ..	30.27	50	NNW	4	bc	30.13	- .14	50	48	+	1	NNW	5	rmv	5	54	46	0.21
FRANCE & NETHERLANDS.	Roche's Point...	30.19	50	NNW	5	b	30.03	- .17	48	46	—	1	NNE	4	o	4	54	46	—
	Pembroke ..	30.13	46	WNW	3	bc	29.98	- .21	45	43	—	1	WNW	4	cp	4	48	43	0.08
	Scilly ..	30.19	49	NNW	6	bc	30.01	- .25	48	47	—	2	NNW	4	op	4	51	45	0.06
	Prawle Point ..	30.13	47	W	2	o	29.99	- .28	44	43	—	4	WNW	2	bc	2	50	36	0.06
	Jersey ..	30.17	50	W	3	c	30.01	- .29	48	45	+	2	WNW	4	cm	3	52	44	0.07
	Hurst Castle ..	30.09	46	W	5	o	29.97	- .27	45	44	—	2	WNW	2	cf	2	51	38	0.04
	Dungeness ..	30.05	48	WNW	4	c	29.90	- .26	45	43	—	2	NNW	3	c	2	55	43	0.06
	London ..	30.03	51	W	1	og	29.91	- .27	45	42	—	3	WNW	1	b	*	55	40	0.09
	Oxford ..	30.02	48	SW	2	r	29.94	- .25	41	40	—	5	W	1	og	*	54	38	0.10
	Cambridge ..	29.98	51	W	1	r	29.89	- .24	46	44	—	5	NNW	1	bc	*	57	36	0.03
PENINSULA.	Yarmouth ..	29.99	50	Z	0	bc	29.85	- .26	44	43	—	4	NNW	2	c	3	54	42	0.04
	Cuxhaven ..	29.84	40	NNW	3	r	29.78	- .14	43	43	+	2	WSW	2	f	*	53	39	0.02
	Berlin ..	29.88	43	NNW	1	o	29.85	- .00	35	34	—	7	SE	2	o	*	45	30	—
	Wiesbaden ..	*	*	*	*	*	29.91	- .18	46	45	—	1	W	1	r	*	54	45	0.04
	Munich ..	30.02	37	W	6	o	29.97	- .13	39	39	+	6	SW	4	r	*	39	32	0.47
	The Helder ..	29.94	43	WSW	1	f	29.78	- .27	42	42	—	SW	1	f	1	46	41	0.04	
	Brussels ..	29.87	*	*	*	*	29.87	- .27	46	46	—	SW	3	m	*	53	44	0.04	
	Cape Gris Nez...	?	44	WSW	4	o	?	?	42	41	—	1	WNW	2	r	2	48	41	0.12
	Paris ..	30.13	52	NNW	2	o	29.98	- .27	45	43	—	2	SW	1	o	*	50	42	—
	Brest ..	30.24	50	WNW	3	r	30.13	- .25	48	44	—	1	NNW	5	o	4	54	37	0.08
PENINSULA.	Lorient ..	30.23	49	W	4	o	30.08	- .28	45	44	—	2	N	5	b	2	52	45	—
	Rochefort ..	30.26	50	NNW	4	b	30.10	- .26	48	48	—	1	WNW	3	o	2	54	41	—
	Belfort ..	30.12	59	W	1	o	29.98	- .23	46	45	+	7	W	1	o	*	46	37	—
	Lyons ..	30.16	48	NNW	2	c	30.03	- .27	46	45	+	7	NE	1	o	*	52	?	—
	Nice ..	29.94	53	SSW	3	bc	29.90	- .13	48	44	—	3	E	2	bc	3	61	43	—
	Perpignan ..	30.10	57	NNW	3	b	30.08	- .15	53	48	+	2	W	1	b	*	64	46	—
	Biarritz ..	30.25	51	N	4	o	30.12	- .26	49	46	+	4	SE	2	o	1	55	45	—
	Corunna ..	*	*	*	*	*	30.25	- .09	53	49	+	1	NE	6	bc	5	59	46	—
	Lisbon ..	30.15	60	NNW	5	b	30.06	- .19	51	47	—	2	NNE	6	b	?	70	50	—

WEATHER CHARTS

for 8 a.m. on

Sunday, 31st March,

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.

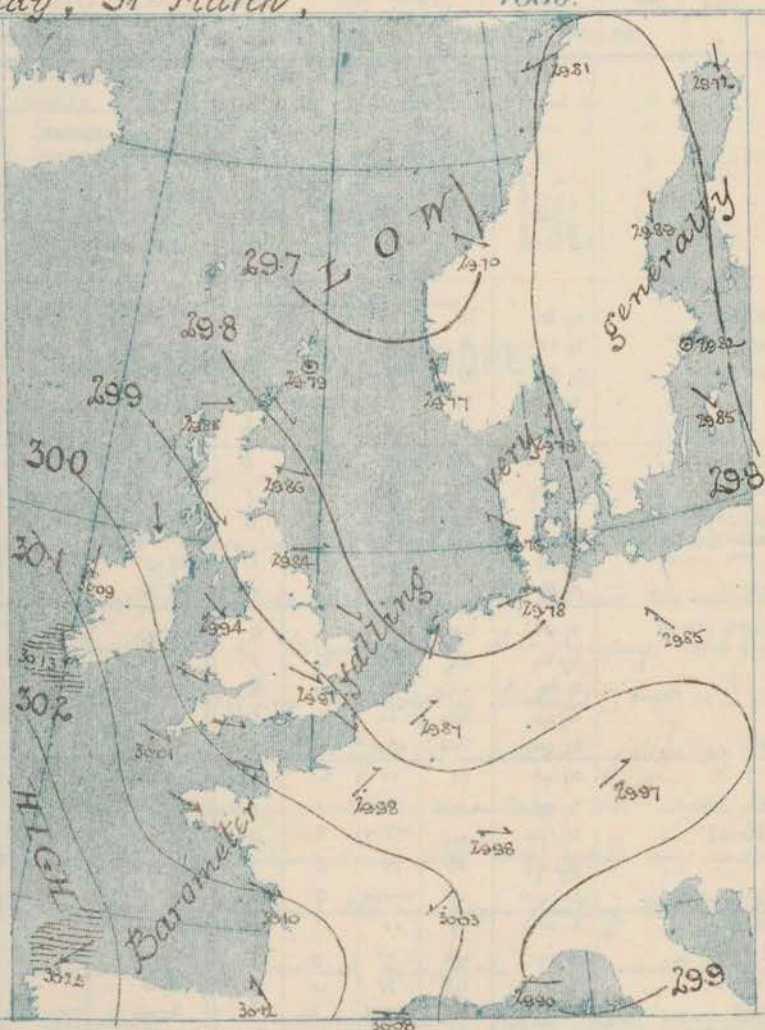
Sea Disturbance — where considerable, is shown thus.

— Rough. — High.

MEAN HEIGHT of the BAROMETER

at 6 a.m. for the month of March.
During the 15 Years 1871–1885.

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



TEMPERATURE, & WEATHER at 8 A.M., with RAINFALL in PAST 24 HOURS.

Temperature — Isotherms are drawn for each 10° changes since previous morning are stated in words.

Weather — is shown by Letters of the Beaufort Scale.

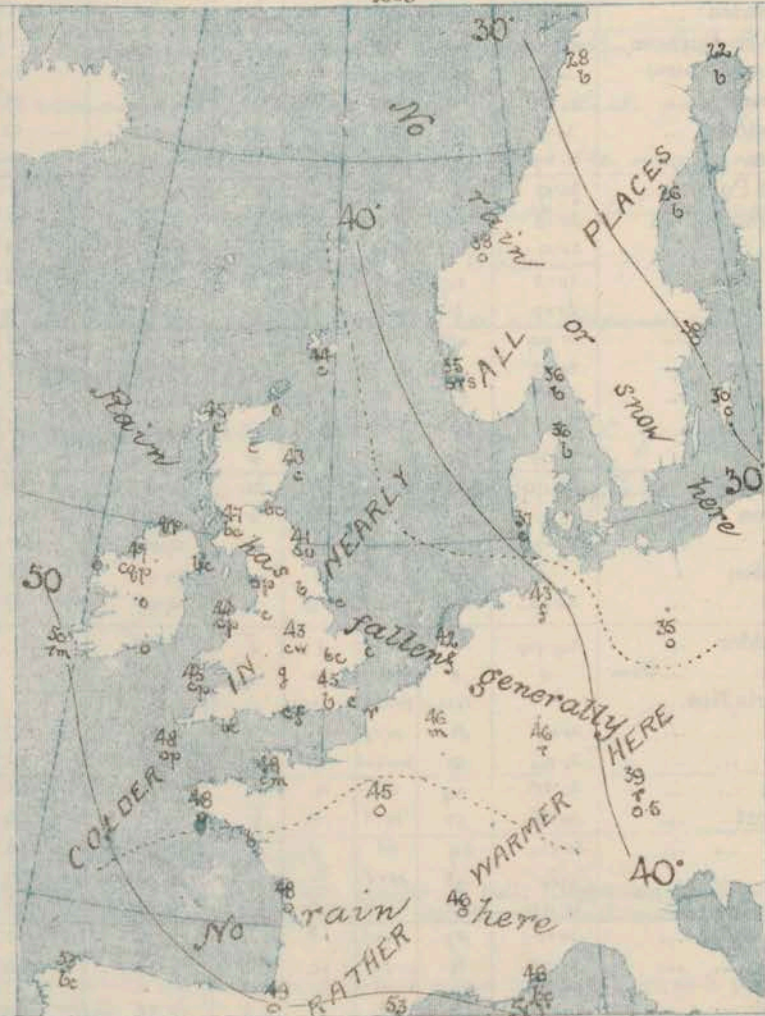
Rainfall — A dotted line separates the districts in which rain has fallen from those where there has been none. Falls of 0.5 in. or more, are quoted in figures.

MEANS OF TEMPERATURE IN SHADE.

AND RAINFALL.
for the month of March.

STATIONS.	TEMPERATURE.				RAINFALL. (Inches).
	Daily Max.	Daily Min.	at 8 a.m.		
			Dry.	Wet.	
Sumburgh Head.	42.6	34.0	38.5	37.1	2.92
Stornoway.	44.9	34.4	39.2	38.0	8.87
Wick.	44.7	33.9	39.1	37.2	1.97
Nairn.	45.6	34.2	38.2	36.3	1.72
Aberdeen.	45.4	34.7	38.9	36.8	2.24
Leith.	48.2	34.6	39.7	37.9	1.36
Shields.	45.9	35.4	39.6	38.0	1.60
York.	48.9	38.7	38.6	37.1	1.63
Loughborough.	49.8	34.3	39.5	37.7	1.47
Ardrossan.	48.8	38.6	40.5	38.7	2.59
Donaghadee.	47.3	37.1	41.0	39.7	1.99
Holyhead.	47.6	39.2	42.5	41.0	2.21
Liverpool.	47.3	37.1	40.8	38.7	1.69
Parsonstown.	50.1	35.5	41.2	39.6	2.35
Valencia.	51.6	40.6	45.4	43.4	4.24
Roche's Point.	50.2	40.0	43.8	42.1	3.71
Pembroke.	47.1	39.5	42.6	40.8	2.45
Scilly.	49.9	43.0	46.5	44.7	2.38
Jersey.	49.9	40.5	44.7	42.7	2.32
Hurst Castle.	48.3	37.7	41.6	40.7	1.80
Dover.	46.9	37.8	41.6	39.9	1.86
LONDON.	50.6	35.8	40.6	38.7	1.43
Oxford.	49.5	35.2	39.4	37.9	1.52
Cambridge.	50.6	33.3	39.2	37.7	1.83
Yarmouth.	45.7	35.8	40.8	39.1	1.77

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



GENERAL SITUATION AT 8 A.M.

PRESSURE	<p>Highest, 30¹/₂ in. and upwards, in an anticyclone lying to the southward of our Islands, and northward of Spain.</p> <p>Lowest, 29⁷/₁₆ in. and less, in a depression lying off the west of Norway.</p> <p>Gradients slight and somewhat irregular.</p> <p>Barometer falling, generally - most at our southern and the French stations.</p>
TEMPERATURE	<p>Highest, 53° at Falmouth, 51° at Linton, 50° at Valencia, 49° at Birmm, and 48° at Helmslet, Rochepont, Lally, Jersey, Brest, and Rochefort.</p> <p>Lowest, 22° at Hafnarfjörður, 26° at Helsingfors, 28° at Bodø, 30° at Stockholm and Wier, 35° at Rudesand and Kiel, and 36° at Tander and Bergen.</p>
WIND	<p>N¹/₂ in Ireland, but NW¹/₂ in other parts of the United Kingdom - light or moderate in force generally.</p> <p>Light from the SW. over the Netherlands and east of France, and from the S¹/₂ on the eastern shores of the North Sea.</p> <p>Light N¹/₂ in the north of Sweden; moderate from ENE at Bodø.</p>
WEATHER	<p>Fine in the east and southeast of England as well as in the north of Scandinavia and south of France.</p> <p>Cloudy elsewhere, with passing showers at several of our western stations, rain in Germany, and sleet at Stockholm.</p> <p>Since yesterday morning a little rain has fallen in most part of Western Europe.</p>
SEA	<p>Moderate to smooth generally, but rather rough at Valencia.</p>

PROBABLE CHANGES IN SYSTEM NOW PREVALENT

Low pressure areas are now extending southwards down the North Sea and NW winds seems likely to continue with cool, showery, weather.

FORECASTS

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

DISTRICTS.

- 0 { SCOTLAND
- 1 { NORTH
- 2 { SCOTLAND
- 3 { EAST
- 4 { ENGLAND
- 5 { N.E.
- 6 { ENGLAND
- 7 { EAST
- 8 { MIDLAND
- 9 { COUNTIES
- 10 { ENGLAND
- 11 { SOUTH

FORECASTS.

NONE ISSUED

DISTRICTS.


- 6 { SCOTLAND
- 7 { WEST
- 8 { ENGLAND
- 9 { N.W.
- 10 { ENGLAND
- 11 { S.W.
- 12 { IRELAND
- 13 { NORTH
- 14 { IRELAND
- 15 { SOUTH


WARNINGS

FORECASTS.

NONE ISSUED

NONE ISSUED.

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

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

YESTERDAY'S 2 P.M. REPORTS.

	Bar.	Dry.	Wet.	Wind.	Wes.	Sea.		Bar.	Dry.	Wet.	Wind.	Wes.	Sea.		
Skudesnaes ...	29.94	38	34	S	6	r	4	Holyhead ...	30.09	47	47	nn	3	0	2
Sumbargh Head ...	29.82	45	45	nnw	3	0	4	Valencia ...	30.29	54	49	nn	4	6pgr	4
Stornoway ...	29.93	50	47	W	4	0	4	Scilly ...	30.19	49	48	nn	6	op	5
Aberdeen ...	29.92	49	47	nn	4	orgw	2	Jersey ...	30.24	52	48	W	3	cm	3
Shields ...	29.96	54	50	W	3	C	2	Dungeness ...	30.10	48	40	W	4	C	3
Ardrossan ...	30.01	49	47	W	3	0	2	London ...	30.09	54	50	W	1	0	*
Malia Head ...	30.08	49	46	nnw	3	0	3	Yarmouth ...	30.03	54	51	nn	2	0	2
Mullaghmore ...	30.15	51	48	W	5	0	3	Rochefort ...	30.32	53	50	nn	3	0	2
Belmullet ...	30.18	50	47	W	3	0	*								

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

The reports for yesterday morning showed that pressure (which was increasing both over Scandinavia and on the shores of the Mediterranean, but decreasing elsewhere) varied from 30.3 in and more over the Bay of Biscay, the west of France, and the greater part of Spain, to 29.3 in: and less, in a depression lying over the north of Russia, and to 29.9 in: and less, in a "hollow" which appeared to be spreading southeastwards from the Shetland Islands towards the North Sea. NW⁴ to SW³ winds prevailed over the United Kingdom, NW⁴ to W³ over France, Germany, and Austria, N winds over the Baltic and eastern shores of the North Sea, and SW⁷ over Central and Southern Russia. The weather was dull and unsettled over our Islands, France, the North Sea and Germany, with showers on our western and northern coasts and in some parts of Germany. Over Southern Europe and in Russia and Sweden it was fine. Temperature was giving way on our western and northern coasts, but had risen elsewhere. The lowest morning readings were 18° at Uleaborg, 19° at Haparanda, 20° at Kiew, 24° at Archangel and Kuopio, 25° at St. Petersburg, 28° at Odessa and Helsingfors, 29° at Moscow, 31° at Warsaw; over all the more western countries the thermometer stood above the freezing point. The highest values were 56° at Barcelona, 55° at Rimini, 54° at Cagliari, 53° at Lisbon and Malta, 52° at Genoa, 51° at Perpignan and Nice, 50° at Sicily, 49° at Valencia, and 48° at Belmullet and in London. At Paris the temperature was 47°, at Berlin 43°, at Madrid 40°, and at Vienna 36°. Later on the temperature fell over England also and the wind veered to NW, while showers of rain fell in several places.

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 MARCH 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.	Day.	Night.	Difference from 8 a.m. yesterday.	Dir.	Force. (0 to 12.)			Max.	Min.			
1	Lyons.....	29.78	30	NNW	1	S	29.81	+21	27	-	-1	SW	1	S	*	39	27	0.08		
-	Corunna....	*	*	*	*	*	29.97	+28	45	43	-2	NW	2	O	3	52	41	-		
2	Corunna....	*	*	*	*	*	29.93	-04	46	44	+1	SW	4	T	3	52	41	-		
4	Brussels..	*	*	*	*	*	30.08	+08	25	-	+4	NNE	1	S	*	31	?	-		
-	Corunna....	*	*	*	*	*	30.06	+15	46	45	-5	SSW	5	T	4	54	39	-		
5	Corunna...	*	*	*	*	*	30.25	+19	51	48	+6	W	1	bc	5	54	43	0.32		
6	Corunna...	*	*	*	*	*	30.03	-22	53	52	+2	SSW	7	T	2	61	50	0.16		
8	Bodo.....	29.81	17	ENE	6	b	29.76	-14	18	16	-2	E	4	b	2	23	14	-		
-	Christiansund	29.62	36	SE	4	O	29.46	-21	35	32	+4	ESE	4	O	4	36	24	-		
-	Lyons.....	29.94	43	S	4	T	29.81	-24	42	-	+7	S	5	O	*	48	?	-		
-	Corunna...	*	*	*	*	*	29.57	-12	51	50	-4	WNW	6	T	5	261	48	-		
9	Corunna...	*	*	*	*	*	29.76	+19	52	49	+1	SSW	4	C	4	55	46	-		
11	Corunna...	*	*	*	*	*	29.93	-	51	42	-	NNE	7	O	6	55	45	2.13		
12	Corunna...	*	*	*	*	*	30.42	+49	49	45	-2	NE	5	b	5	52	45	-		
13	Corunna...	*	*	*	*	*	30.41	-01	49	48	0	NE	4	f	6	54	41	-		
14	Corunna...	*	*	*	*	*	30.39	-02	51	48	+2	NE	5	b	5	54	46	-		
15	Corunna...	*	*	*	*	*	30.39	.00	51	49	0	NE	5	b	5	57	41	-		
16	Corunna...	*	*	*	*	*	30.43	+04	47	43	-4	EHE	5	b	5	57	43	-		
18	The Helder...	30.06	40	W	1	T	29.89	-	40	-	-	WSW	1	f	2	43	39	0.04		
-	Corunna...	*	*	*	*	*	29.91	-34	55	49	+2	SSE	1	T	0	64	46	-		
19	Skagen....	29.78	26	2	O	b	29.68	-04	28	25	-2	S	1	b	1	34	23	-		
-	Corunna...	*	*	*	*	*	29.73	-18	55	50	0	SSW	6	O	4	55	45	-		
20	Corunna...	*	*	*	*	*	29.52	-21	50	46	-5	SW	7	O	6	59	45	0.59		
21	Corunna...	*	*	*	*	*	29.79	+27	45	44	-5	WNW	4	S	6	59	43	0.08		
23	Lorient....	30.30	41	WNW	3	O	30.44	+35	34	-	-6	WNW	1	m	2	45	34	-		
25	Mullaghmore	29.96	52	SW	6	O	29.96	-01	47	45	-4	W	6	C	5	53	46	0.41		
-	Corunna...	*	*	*	*	*	30.50	.00	49	44	+3	EHE	1	b	3	57	37	-		
-	Lisbon....	30.39	52	WSW	5	b	30.40	-02	48	43	+3	NE	1	b	2	59	?	-		
-	Mullaghmore 2pm	-	-	-	-	-	30.03	-	49	46	-	W	6	cp	5	-	-	-		
26	Mullaghmore	30.04	45	W	6	C	30.19	+23	45	41	-2	NW	6	cp	5	50	42	0.10		
-	Corunna...	*	*	*	*	*	30.38	-12	53	53	+4	NE	25	b	3	57	45	-		
-	Mullaghmore 2pm	-	-	-	-	-	30.27	-	50	45	-	WNW	5	cp	4	-	-	-		
28	Corunna...	*	*	*	*	*	30.47	+05	51	47	-1	NE	1	b	4	57	39	-		
29	Corunna...	*	*	*	*	*	30.45	-02	50	45	-1	EHE	1	b	4	59	36	-		
30	The Helder	30.19	42	WNW	1	C	30.05	-33	42	-	-3	WNW	2	f	2	46	41	-		
-	Brussels..	*	*	*	*	*	30.15	-21	47	-	+12	W	3	C	*	47	?	0.04		
-	Corunna...	*	*	*	*	*	30.34	-11	52	46	+2	EHE	1	b	1	59	39	-		

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. The Secretary, Meteorological Office, 63 Victoria St. Str.

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.		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	Aberdeen																0.13
-	Valencia																0.06
-	Cambridge																0.02
2	Donaghadee																0.03
3	Hurst Castle																0.02
4	Barrow-in-Fur.															27	
-	Scilly	29.82															
-	Belmullet 2pm								43								
5	Ardrossan																No rain
-	Pembroke															29	
6	Wick	29.83															
7	Mullaghmore																0.01
9	Aberdeen 2pm											wrtw					
11	Bungness														41		
12	Shield 2pm								54								
-	Mullaghmore 2pm						30.29										
13	Ardrossan 2pm								50								
14	Stornoway															41	
-	Loughborough																No rain
-	Ardrossan														50		
16	Spurn Hd.															33	
-	Parsonstown														54		
-	Valencia										+ 4					41	
-	Pembroke	30.57															
-	Hurst Castle														49		
17	Barrow-in-Fur.															42	
19	Samburgh Hd.						29.53	- 34									
22	Spurn Hd.	29.75															
-	York															29	
24	Bungness														47		
26	Belmullet						30.33										
28	Spurn Hd.											hsw					
-	Belmullet 2pm						30.36										

Reporting Stations in the British Islands during the various months, and which, until the end of the year 1888
A copy will be forwarded gratuitously to those subscribers to the Daily Weather Report who apply for it in writing to