

DAILY WEATHER REPORT

METEOROLOGICAL OFFICE,
LONDON.

DAILY WEATHER REPORTS.

1ST JANUARY-30TH JUNE,
1890.

Sec. Reg. Lond.

DAILY WEATHER REPORT

January to June 1890.



DAILY WEATHER REPORT.

for *Thursday, 1st May, 1890.*
Issued by the Meteorological Office, 63, Victoria Street, London. R. H. SCOTT, Secretary.

STATIONS.	YESTERDAY EVENING.					8 A.M. TO DAY.										PAST 24 HOURS.		
	Barom : Reading at 32° F. and Sea Level.	Temp. Dry.	Wind.		Weather.	Barometer.		Shade Temp.			Wind.		Sea. (0 to 3.)	Shade Temp.				
			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 ...	30.47	41	Z	0	b	30.43	-0.06	43	41	+4	Z	0	b	*	54	39	-	
Hernösand ...	30.43	45	Z	0	b	30.43	+0.08	46	43	-1	Z	0	m	*	57	39	-	
Stockholm ...	30.34	47	E	2	b	30.37	+0.15	57	50	+3	ENE	2	b	*	70	45	-	
Wisby ...	30.18	53	SE	4	b	30.19	+0.14	61	51	+3	SE	4	bc	*	73	45	-	
Bodö ...	30.30	53	ENE	4	b	30.30	-0.03	57	50	+7	E	2	b	1	59	46	-	
CHRISTIANIA.																		
Christiansund ...	30.20	49	ENE	1	b	30.23	+0.18	51	46	-2	W	3	b	2	54	46	-	
Skudesnaes ...	30.19	46	WNW	1	c	30.21	+0.11	50	46	+5	NW	2	o	2	57	39	-	
Christiania Fjord (Færd)	30.20	46	Z	0	o	30.21	+0.17	47	45	+2	N	3	b	2	?	45	-	
Skagen (The Scaw)	30.20	43	NW	1	3	30.16	+0.16	48	47	+4	S	1	c	0	52	43	-	
Fanö ...	30.24	49	E	2	b	30.10	+0.01	49	47	+4	ENE	2	c	*	55	43	-	
SCOTLAND.																		
Sumburgh Head	30.02	45	SE	4	m	30.11	+0.15	48	46	+4	SSE	2	c	5	48	42	-	
Stornoway ...	29.90	51	S	2	o	29.96	+0.16	51	49	+3	Z	0	o	2	51	44	0.02	
Wick ...	29.96	50	S	3	o	30.05	+0.14	48	46	+1	S	3	bc	2	58	44	0.02	
Nairn ...	29.93	56	E	1	o	30.01	+0.13	53	50	+1	W	1	bm	1	59	47	-	
Aberdeen ...	30.03	48	E	2	c	30.11	+0.17	48	45	0	SSE	3	b	3	57	43	-	
ENGLAND.																		
Leith ...	29.94	56	N	1	bc	30.04	+0.10	54	48	0	NE	1	bm	*	62	45	-	
Shields ...	29.98	50	N	1	c	30.07	+0.11	48	47	0	NE	1	b	2	61	43	-	
Spurn Head ...	30.02	49	ESE	5	bc	29.99	-0.01	49	47	0	E	5	c	4	55	45	-	
York ...	30.00	58	E	1	o	30.03	+0.03	52	48	+2	E	2	b	*	60	37	-	
Loughborough	29.96	61	ESE	2	c	29.98	-0.00	51	49	-1	ENE	3	b	*	68	36	-	
IRELAND.																		
Ardrossan ...	29.92	56	SE	1	c	29.99	+0.08	54	49	+4	SE	2	bm	1	57	48	-	
Malin Head ...	29.82	55	SSE	4	o	29.90	+0.08	52	48	+3	SSE	3	om	1	55	48	-	
Mullaghmore ...	29.78	56	ESE	5	c	29.89	+0.08	49	47	-2	E	1	o	2	57	48	-	
Belmullet ...	29.74	54	NE	1	o	29.83	+0.08	48	45	+2	SE	1	o	*	56	44	0.04	
Donaghadee ...	29.90	52	SSE	3	b	29.97	+0.08	50	47	0	E	4	c	2	55	49	-	
WALLES.																		
Liverpool (Bidston)	29.93	60	SE	2	o	29.96	+0.01	52	48	-1	E	3	bm	3	64	45	-	
Holyhead ...	29.90	58	Z	0	o	29.91	-0.01	55	49	+1	E	3	b	2	64	46	-	
Parsonstown ...	29.79	57	SE	1	b	29.87	+0.03	51	48	+2	Z	0	bc	*	62	45	-	
Valencia ...	29.77	51	SW	3	c	29.85	+0.08	48	45	-2	Z	0	cv	1	53	40	0.02	
Roche's Point...	29.80	50	SSW	4	c	29.83	+0.03	52	48	0	ESE	4	bc	4	54	45	-	
SCOTLAND.																		
Pembroke (St. Ann's Hd.)	29.87	52	W	1	b	29.84	-0.03	54	51	+4	E	4	bc	3	58	45	-	
Scilly ...	29.84	52	W	1	c	29.72	-0.08	52	50	-1	E	4	o	4	55	45	-	
Prawle Point ...	29.87	52	E	4	b	29.79	-0.09	55	51	+1	E	4	bm	3	56	49	-	
Jersey (St. Aubin's)	29.83	61	ENE	4	bm	29.79	-0.09	57	54	0	E	3	bm	3	67	48	-	
Hurst Castle ...	29.89	59	ESE	3	b	29.84	-0.09	53	50	0	ENE	4	b	2	63	47	-	
ENGLAND.																		
Dungeness ...	29.91	52	ENE	5	bc	29.84	-0.11	52	49	+1	ENE	4	b	3	56	47	-	
London ...	29.95	56	E	3	b	29.90	-0.08	53	49	-3	E	3	b	*	64	43	-	
Oxford ...	29.96	53	E	3	b	29.92	-0.06	54	49	+3	NE	3	b	*	64	39	-	
Cambridge ...	29.97	59	E	1	b	29.93	-0.06	55	51	-1	E	1	b	*	68	36	-	
Yarmouth ...	30.02	50	E	3	b	29.95	-0.07	48	47	0	E	4	b	4	53	45	-	
FRANCE.																		
Cuxhaven ...	30.13	46	NE	2	b	30.11	+0.04	46	45	0	NE	3	b	*	54	44	-	
Berlin ...	30.12	53	ESE	3	b	30.04	-0.06	51	49	0	NNE	2	c	*	59	46	-	
Wiesbaden ...	*	*	*	*	*	29.91	-0.13	54	48	+3	NE	4	b	*	63	46	-	
Munich ...	29.98	47	E	5	b	29.85	-0.20	46	44	+1	E	4	b	*	57	36	-	
The Helder ...	30.06	51	ENE	2	b	30.01	-0.05	49	47	0	ENE	2	b	3	54	48	-	
NETHERLANDS.																		
Brussels (9 a.m.)	*	*	*	*	*	?	?	50	46	-2	E	3	b	*	61	43	-	
Cape Gris Nez	?	52	E	4	bc	29.85	-0.07	53	48	+3	E	2	b	*	?	45	-	
Paris ...	29.86	64	ESE	2	b	29.75	-0.06	49	49	-2	E	1	m	3	59	46	-	
Brest ...	29.83	52	NW	4	b	29.78	-0.02	50	50	+1	S	2	m	5	61	46	-	
Lorient ...	29.83	59	W	2	bc	29.78	-0.02	50	50	+1	S	2	m	5	61	46	-	
FRANCE AND BELGIUM.																		
Rochefort ...	29.88	61	ESE	3	o	29.84	-0.00	50	48	-3	ESE	4	o	?	72	43	-	
Belfort ...	29.88	45	NW	1	b	29.78	-0.19	55	48	+3	S	1	b	*	66	41	-	
Lyons ...	29.85	54	S	4	r	29.86	-0.08	46	46	-5	E	1	r	*	65	45	-	
Nice ...	29.99	44	E	4	r	29.84	-0.19	47	43	-3	E	5	bc	4	57	41	1.46	
Perpignan ...	29.77	52	E	3	o	29.83	-0.01	49	47	-	N	2	o	*	62	45	1.54	
Biarritz ...	29.85	55	NW	4	r	29.75	-0.03	51	49	0	SSE	3	c	5	59	48	0.43	
SPAIN.																		
Corunna ...	*	*	*	*	*	?	?	50	46	-2	E	3	b	*	61	43	-	
Lisbon ...	30.05	53	SW	5	r	29.99	-0.18	56	52	+5	WNW	4	bc	4	59	?	?	

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

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

WEATHER CHARTS

for 8 a.m. on Thursday, 1st May, 1890.

BAROMETER, WIND AND SEA.

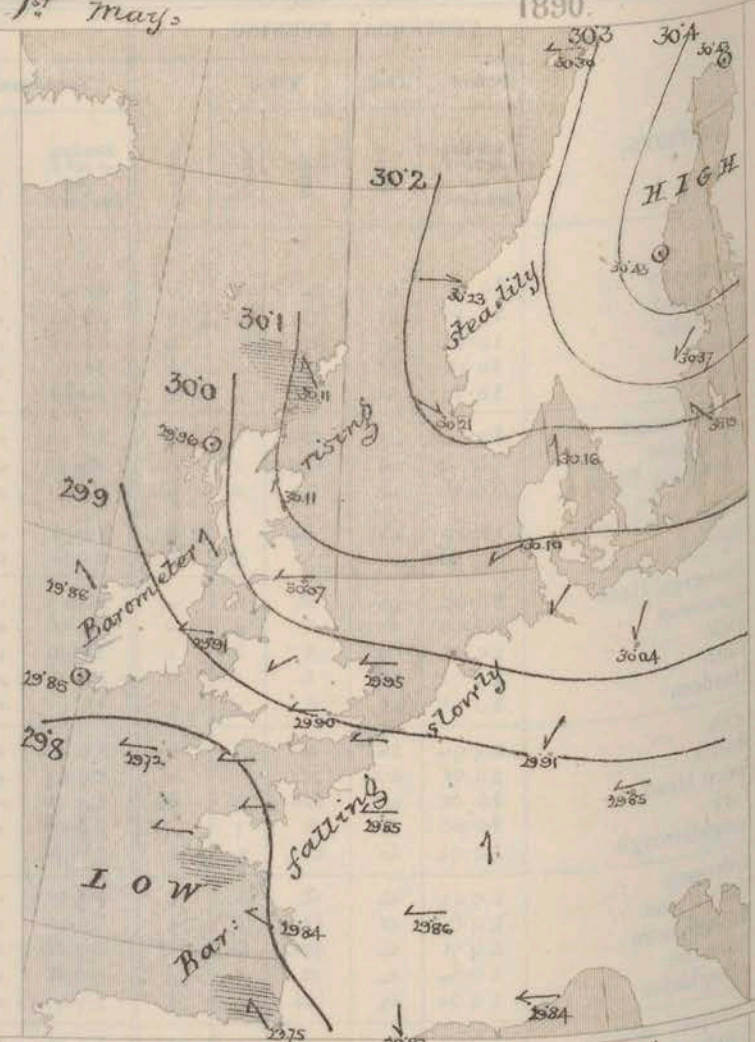
EXPLANATION OF MAP.

BAROMETER—Isobars are drawn for each tenth of an inch. Changes since previous morning are stated in words.
WIND—Arrows show the prevalent winds. They fly with the wind and their barbs and feathers refer to force thus—
→ = forces above 10; → = forces 8 to 10;
→ = forces 5 to 7; → = forces 1 to 4.
⊙ = dead calm.
SEA DISTURBANCE—Where considerable, is shown thus:
▨ = Rough. ▨ = High.

MEAN HEIGHT OF THE BAROMETER

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

STATIONS.	MEAN READINGS.
Sumburgh Head	29.878
Stornoway	29.893
Wick	29.900
Nairn	29.918
Aberdeen	29.922
Leith	29.942
Shields	29.955
York	29.974
Loughborough	29.984
Ardrossan	29.949
Donaghadee	29.959
Holyhead	29.971
Liverpool	29.974
Parsonstown	29.976
Valencia	29.984
Roche's Point	29.979
Pembroke	29.977
Scilly	29.997
Jersey	30.002
Hurst Castle	29.994
Dover	29.985
LONDON	29.995
Oxford	29.993
Cambridge	29.989
Yarmouth	29.980



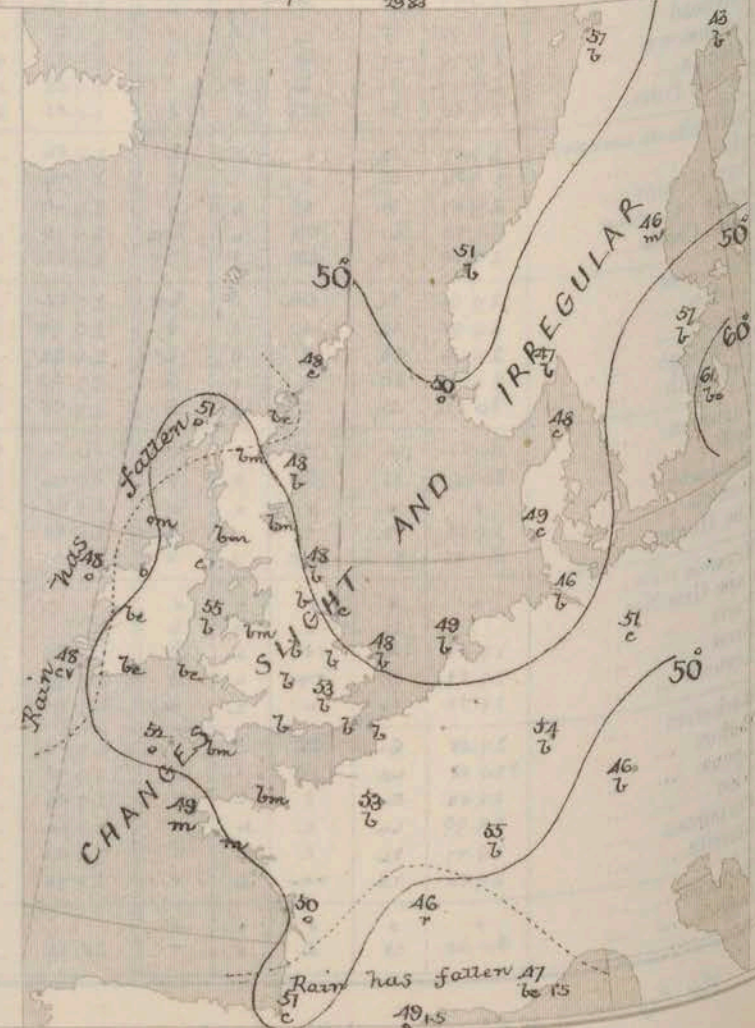
TEMPERATURE, & WEATHER AT 8 A.M., WITH RAINFALL IN PAST 24 HOURS.

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 May.)

STATIONS.	TEMPERATURE.				RAINFALL (Inches)
	Daily Max.	Daily Min.	at 8 a.m. Dry.	at 8 a.m. Wet.	
Sumburgh Head	50.2	39.0	45.9	43.0	1.71
Stornoway	52.9	40.7	48.4	46.0	2.04
Wick	53.7	49.4	47.9	45.2	1.62
Nairn	55.0	42.0	48.4	45.0	1.07
Aberdeen	55.0	41.7	48.9	45.3	1.00
Leith	57.8	42.2	50.1	46.7	1.05
Shields	54.2	43.1	49.1	45.9	1.75
York	59.3	41.6	49.6	46.4	1.71
Loughborough	61.5	42.2	51.2	47.6	1.96
Ardrossan	56.2	43.7	49.3	46.4	2.20
Donaghadee	55.9	43.6	49.5	47.3	2.15
Holyhead	56.0	40.1	50.3	47.8	1.88
Liverpool	57.5	41.7	50.0	46.8	1.74
Parsonstown	59.3	42.3	51.0	47.7	2.23
Valencia	58.1	45.9	52.8	49.5	2.80
Roche's Point	59.6	49.6	51.7	48.7	3.05
Pembroke	55.1	46.0	49.9	47.4	1.95
Scilly	56.3	48.2	52.7	50.3	1.60
Jersey	59.3	47.1	53.5	50.4	1.74
Hurst Castle	58.3	46.3	51.3	49.7	1.70
Dover	56.8	46.8	52.8	49.2	1.77
LONDON	62.1	44.1	52.4	48.4	1.78
Oxford	60.5	43.9	59.6	47.4	1.83
Cambridge	61.7	41.8	51.3	48.1	1.76
Yarmouth	55.4	41.8	50.5	48.0	1.85

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



GENERAL SITUATION AT 8 A.M.

PRESSURE

Highest, 30.4 in: and upwards, over the Gulf of Bothnia and the south of Sweden.
 Lowest, 29.8 in: and less, in a large shallow area lying over the Bay of Biscay, the north of Spain, and the western parts of the Channel.
 Gradient slight generally.
 Barometer rising in all the more western and northern parts of the Kingdom and also in Norway, but falling elsewhere.

TEMPERATURE

Highest, 61° at Nisby, 57° at Bodö, Stockholm and Jersey, 56° at Lisbon, and 55° at Holyhead, Tralee Point, Cambridge, and Belfast.
 Lowest, 43° at Haparanda, 46° at Helsingfors, Lüneburg, Munich, and Lyons, and 47° at Faerder and Kiev.
 The highest maxima registered over our Islands yesterday were 68° at Loughborough and Cambridge, and 67° at Jersey.

WIND

Chiefly E^{ly}, but S^{ly} in Scotland, W^{ly} in the west of Norway, and calm in the north of Sweden.
 In force it is light or moderate generally.

WEATHER

Fine generally, but hazy in many places, and dull in the extreme northwest of our Islands.
 A little rain fell yesterday in the north of Scotland and west of Ireland, and solar and lunar halos were seen at Jersey.

SEA

Rather rough at Lumburgh Head, Lowest and Biscay, but moderate to smooth elsewhere.

PROBABLE CHANGES IN SYSTEM NOW PREVALENT

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

FORECASTS

For the 24 hours ending at NOON on 2nd May 1890.

DISTRICTS.

FORECASTS.

DISTRICTS.

FORECASTS

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

0 } S^{ly} and SE^{ly} winds, light; fine generally.
 1 }
 2 E^{ly} winds, light or moderate; fine generally.
 3 Same as N^o 5
 4 Same as N^o 2.
 5 E^{ly} winds, moderate or fresh; fine generally.

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

6 Same as N^o 0 and 1.
 7 Same as N^o 2
 8 Same as N^o 5
 9 } E^{ly} winds, moderate; fair generally.
 10 }
 WARNINGS
 NONE ISSUED.

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

YESTERDAY'S 2 P.M. REPORTS.

	BAR:	THER:		WIND		WEA.	SEA			BAR:	THER:		WIND		WEA.	SEA
		D.	W.	D.	F.						D.	W.	D.	F.		
Skudesnaes ...	50.14	57	48	WSW	1	c	3	Holyhead ...	29.90	63	53	S	1	c	1	2
Sumburgh Head ...	29.98	45	44	SE	4	o	6	Valencia ...	29.73	52	50	S	1	o g m	5	5
Stornoway ...	29.89	50	50	S	3	o	3	Scilly ...	29.85	53	50	WSW	3	c	3	3
Aberdeen ...	29.99	54	49	SSW	4	bc	3	Jersey ...	29.86	66	56	E	3	b	3	3
Shields ...	29.97	53	50	SE	3	bc	3	Dungeness ...	29.94	56	51	SE	4	b	*	*
Ardrossan ...	29.93	54	51	SW	2	c	1	London ...	29.97	62	54	ESE	2	b	2	2
Mulin Head ...	29.84	53	48	S	4	o	2	Yarmouth ...	30.03	52	50	ESE	2	b	0	?
Mullaghmore ...	29.81	54	49	SSW	5	o p	4	Rocheport ...	29.67	67	58	ESE	2	o		
Belmullet ...	29.78	54	50	S	2	o	*									

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

Weather gloomy and rainy in the west and northwest of Ireland, as well as over Southeastern Europe, and very unsettled in the southwest of France, with rain, thunder and lightning at Perpignan. Heavy rain in the south and southwest of France subsequently, and slight falls in the extreme west and north of our Islands; continuing fine and bright over England and the north of France.

Temperature still above 50° over Russia, the Mediterranean shores of Europe, and risen to about the same value over the greater part of the British Isles and France, exceeding 60° at Bordeaux only; lowest 37° at Archangel, 39° at the Spitzberg, 44° at the Scut and Sumburgh Head, 46° at Kiofis and Bucharest. Rising to between 60° and 68° over England and many parts of France during day, ~~and~~ to 72° at Rochefort, and to between 70° and 75° in the south of France.

Mind S³ and SE³ in our Islands and also over the Baltic, light to moderate in force, NW⁴ strong, over Spain, S³ strong, over the western parts of the Mediterranean, and E⁴ strong, at Toulon, very light and variable over the North Sea, central and southeastern Europe, becoming variable from the Snd in Ireland later, no important change elsewhere.

Barometer, highest, 30.5 ins: to 30.2 ins: over Finland, Lapland, and Russia, 30.0 ins: to 30.2 ins: over the southwestern half of Spain, and 30.0 ins: to 30.1 ins: over the North Sea, Germany, Central Europe, Italy, and the southeastern parts of the Mediterranean; lowest 29.9 ins: and less, in a depression over Hungary, 29.8 ins: and less, off our extreme western coasts, and 29.7 ins: and less, in a well marked depression near Perpignan. Barometer rising later over Norway, Scotland, and Ireland, falling in Spain, France and Germany.

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. 2ND MAY. 1890.

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

STATIONS.	YESTERDAY EVENING.					8 A.M. TO DAY.										PAST 24 HOURS.		
	BAROM.	TEMP.	WIND.		Weather.	BAROMETER.		SHADE TEMP.			WIND.		Weather.	Sea. (0 to 9.)	SHADE TEMP.		Amount of Rainfall.	
	Reading at 32° F. and Sea Level.	Dry.	Dir.	Force. (0 to 12.)		Reading at 32° F. and Sea Level.	Difference from 8 a.m. yesterday.	Dry.	Wet.	Difference from 8 a.m. yesterday.	Dir.	Force. (0 to 12.)			Max.	Min.		
SCANDINAVIA.																		
Haparanda ...	30.28	36	Z	0	b	30.15	-2.8	49	47	+6	SE	2	b	*	54	30	-	
Hernösand ...	30.34	45	Z	0	b	30.26	-1.7	48	44	+2	Z	0	bc	*	64	34	-	
Stockholm ...	30.29	50	E	2	c	30.23	-1.4	58	48	+1	E	2	b	*	70	43	-	
Wisby ...	30.14	52	SE	4	b	30.09	-1.0	62	54	+1	SE	4	b	*	70	48	-	
Bodo ...	30.25	57	SE	1	b	30.25	-0.5	46	44	-11	N	2	o	1	57	45	-	
SCANDINAVIA.																		
Christiansund ...	30.23	49	ENE	1	bc	30.13	-1.0	58	50	+7	SE	2	b	2	?	48	-	
Skudesnaes ...	30.06	56	ENE	6	o	29.98	-2.3	55	48	+5	ENE	4	c	2	61	48	0.08	
Christiania Fjord (Fæder)	30.12	53	NNW	3	c	30.10	-1.1	51	46	+4	N	5	c	2	59	48	-	
Skagen (The Scaw)	30.05	53	NE	2	c	30.02	-1.4	53	49	+5	SE	2	b	2	61	48	0.04	
Fanø ...	29.97	48	E	2	b	29.91	-1.7	53	51	+4	ENE	2	b	*	54	43	0.24	
SCANDINAVIA.																		
Sumburgh Head	30.13	47	E	1	b	29.94	-1.7	47	46	-1	NE	1	?	4	52	40	0.01	
Stornoway ...	29.94	57	Z	0	bc	29.84	-1.2	50	49	-1	E	3	c	3	60	41	-	
Wick ...	30.05	47	S	3	b	29.85	-2.0	49	48	+1	S	1	o	1	53	40	0.08	
Nairn ...	29.96	63	E	1	b	29.87	-1.4	45	44	-1	Z	0	om	0	67	33	-	
Aberdeen ...	30.00	46	SE	2	b	29.88	-2.3	45	43	-3	WNW	2	o	3	52	39	-	
SCANDINAVIA.																		
Leith ...	30.01	50	NE	3	b	29.89	-1.5	47	45	-7	E	1	c	*	63	40	-	
Shields ...	30.02	50	E	2	b	29.92	-1.5	41	40	-7	Z	0	f	2	52	37	-	
Spurn Head ...	29.94	48	ENE	4	c	29.83	-1.6	45	44	-4	Z	0	bc	2	52	40	-	
York ...	29.97	56	E	2	b	29.84	-1.0	41	40	-11	E	1	f	*	64	34	-	
Loughborough	29.90	60	ENE	3	bc	29.84	-1.0	46	45	-5	E	2	bc	*	67	40	-	
SCANDINAVIA.																		
Ardrossan ...	29.92	60	E	2	bc	29.84	-1.5	46	44	-8	NE	1	om	1	60	41	-	
Malin Head ...	29.85	52	SE	4	b	29.70	-2.0	49	46	-3	SE	5	om	2	60	47	-	
Mullaghmore ...	29.81	60	ENE	5	om	29.73	-1.6	48	47	-1	WSE	4	o	2	61	48	-	
Belmullet ...	29.81	53	N	3	o	29.74	-1.4	46	45	-2	SEW	2	o	*	53	45	0.34	
Donaghadee ...	29.90	53	ENE	3	c	29.82	-1.5	48	47	-2	ENE	3	o	1	56	45	-	
SCANDINAVIA.																		
Liverpool (Bidston)	29.88	61	E	4	b	29.87	-0.9	48	45	-4	SE	4	bc	4	65	42	-	
Holyhead ...	29.85	58	E	3	b	29.83	-0.8	53	50	0	SEW	3	b	2	62	47	-	
Parsonstown ...	29.81	62	SE	1	b	29.79	-1.0	46	45	-5	Z	0	?	*	67	45	0.10	
Valencia ...	29.81	53	NW	1	om	29.83	-0.2	49	44	+1	W	4	ce	4	57	44	0.14	
Roche's Point...	29.82	53	ENE	3	c	29.81	-0.2	48	47	-4	WSE	3	om	4	56	45	0.15	
SCANDINAVIA.																		
Pembroke (St. Ann's Hd.)	29.80	58	SE	3	bc	29.85	+0.1	48	48	-6	SE	2	of	2	63	46	0.01	
Scilly ...	29.77	50	S	2	m	29.84	+0.2	51	49	-1	SE	3	of	3	56	46	-	
Prawle Point ...	29.81	58	ENE	2	b	29.84	+0.9	54	51	-1	ENE	3	b	2	57	48	-	
Jersey (St. Aubin's)	29.76	60	NNE	2	bc	29.86	+0.7	59	54	+2	NE	2	om	2	60	49	-	
Hurst Castle ...	29.82	56	ENE	3	c	29.85	+0.5	52	49	-1	ENE	2	b	1	64	44	-	
SCANDINAVIA.																		
Dungeness ...	29.80	54	ENE	4	b	29.87	+0.3	50	48	-2	E	5	c	4	56	46	-	
London ...	29.87	57	E	2	bc	29.91	+0.1	49	47	-4	E	2	b	*	65	43	-	
Oxford ...	29.88	54	ENE	2	c	29.92	0.0	48	45	-6	ENE	1	bc	*	66	38	-	
Cambridge ...	29.88	58	E	2	b	29.93	0.0	46	45	-9	N	1	c	*	68	34	-	
Yarmouth ...	29.90	50	E	4	b	29.92	-0.3	43	42	-5	ENE	2	bc	3	52	40	-	
SCANDINAVIA.																		
Cuxhaven ...	29.97	49	ENE	2	b	29.90	-1.2	50	49	+4	NE	2	b	*	53	?	-	
Berlin ...	29.90	60	E	3	bc	29.90	-2.4	53	53	+8	ENE	2	c	*	64	?	-	
Wiesbaden ...	29.73	54	E	4	o	29.75	-1.6	56	53	+2	Z	0	o	*	64	48	-	
Munich ...	29.77	54	E	2	b	29.77	-1.0	50	46	+4	SW	6	o	*	64	46	-	
The Helder ...	29.91	49	NE	2	b	29.90	-1.1	48	46	-1	NNE	2	b	3	54	45	-	
SCANDINAVIA.																		
Brussels (S.A.M.)	?	51	ENE	2	bc	29.86	?	52	49	-2	NNE	1	b	*	66	44	-	
Cape Gris Nez	29.74	64	NE	2	bc	29.83	-1.0	50	47	-3	E	4	c	3	63	46	-	
Paris ...	29.80	54	N	1	o	29.88	+1.3	50	48	+1	N	4	o	3	61	43	-	
Brest ...	29.77	53	WNW	1	c	29.88	+1.0	50	49	0	W	1	m	3	59	48	-	
SCANDINAVIA.																		
Rochefort	29.79	57	WNW	3	c	29.89	+0.5	53	51	+3	SE	3	o	2	68	45	0.08	
Belfort ...	29.73	61	W	1	?	29.81	+0.3	58	48	+3	W	1	o	*	68	45	0.08	
Lyons ...	29.80	46	S	1	b	29.85	+0.3	43	42	-3	W	1	c	*	53	38	0.24	
Nice ...	29.84	?	E	4	?	29.86	+0.2	47	44	0	NE	4	c	3	54	41	1.06	
Perpignan ...	29.77	54	ENE	2	o	29.83	0.0	49	48	0	SW	2	?	*	61	47	0.67	
Biarritz ...	29.75	54	W	5	c	29.87	+1.2	52	50	+1	W	4	c	2	63	50	0.12	
SCANDINAVIA.																		
Cornuna ...	30.03	54	WNW	5	bc	30.10	+1.1	54	51	-2	NW	5	bc	4	61	52	0.04	
Lisbon ...																		

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

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

WEATHER CHARTS

for 8 a.m. on

FRIDAY, 2nd MAY,

1890.

BAROMETER, WIND AND SEA.

EXPLANATION OF MAP

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

Changes since previous morning are stated in words.

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

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

→ = forces 5 to 7; → = forces 1 to 4.

⊙ = dead calm.

SEA DISTURBANCE—Where considerable, is shown thus:

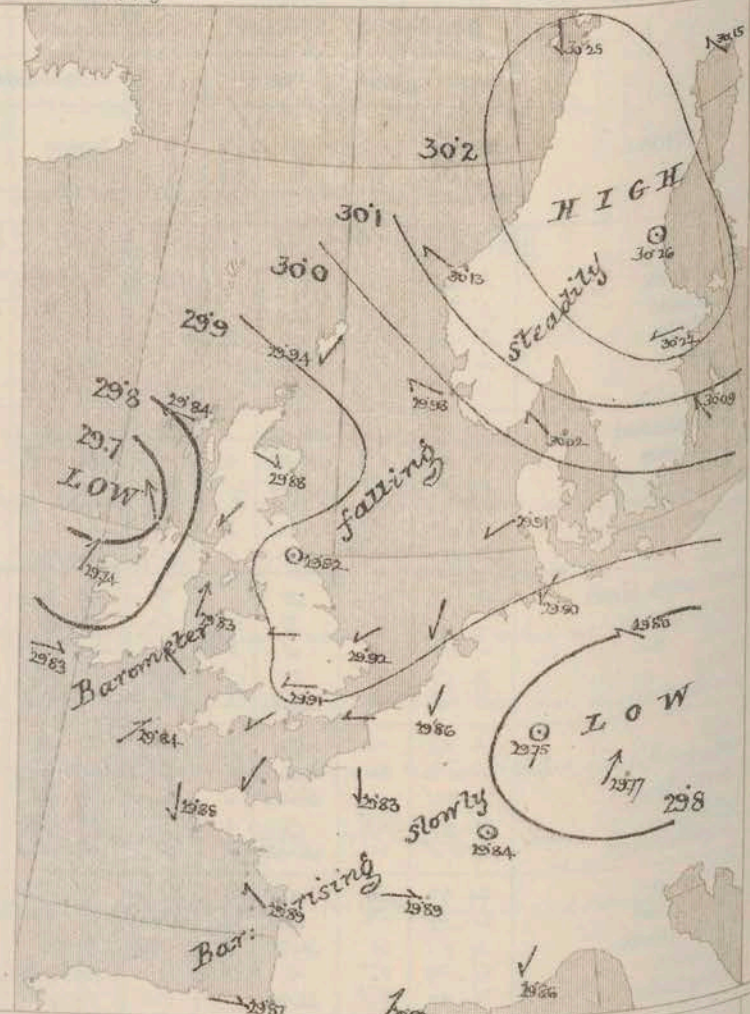
▨ = Rough. ▨ = High.

MEAN HEIGHT OF THE BAROMETER

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

During the 15 Years: 1871-1885.

STATIONS.	MEAN READINGS.
Sumburgh Head	29.878
Stornoway	29.893
Wick	29.906
Nairn	29.918
Aberdeen	29.922
Leith	29.942
Shields	29.955
York	29.974
Loughborough	29.984
Ardrossan	29.949
Donaghadee	29.959
Holyhead	29.971
Liverpool	29.974
Parsonstown	29.976
Valencia	29.984
Roche's Point	29.979
Pembroke	29.977
Seilly	29.997
Jersey	30.002
Hurst Castle	29.994
Dover	29.985
LONDON	29.995
Oxford	29.993
Cambridge	29.989
Yarmouth	29.980



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.

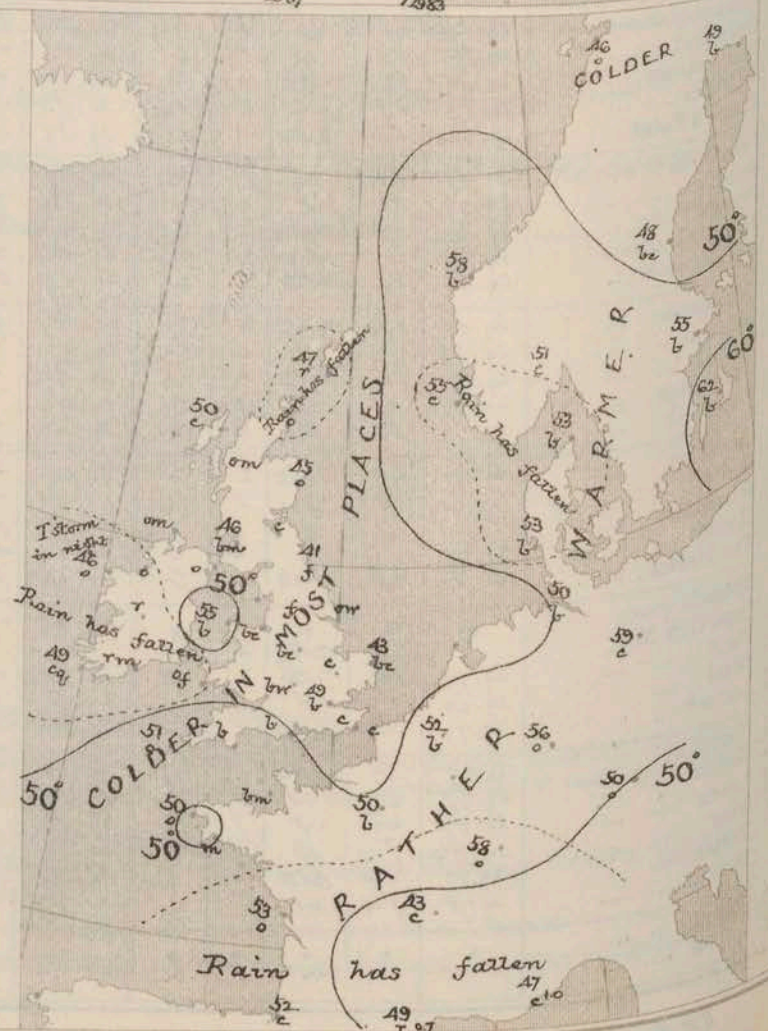
RAINFALL—A dotted line separates the districts in which rain has fallen from those where there has been none. Falls of 0.5 in. or more are quoted in figures.

MEANS OF TEMPERATURE IN SHADE, AND RAINFALL.

(For the month of May.)

STATIONS.	TEMPERATURE.				RAINFALL (Inches.)
	Daily Max.	Daily Min.	At 8 a.m.		
			Dry.	Wet.	
Sumburgh Head.....	50.2	39.9	45.9	43.9	1.71
Stornoway.....	52.9	40.7	48.4	46.0	2.64
Wick.....	53.7	40.4	47.9	45.2	1.62
Nairn.....	55.9	42.0	48.4	45.0	1.67
Aberdeen.....	55.0	41.7	48.9	45.3	1.90
Leith.....	57.8	42.2	50.1	46.7	1.65
Shields.....	51.2	43.1	49.1	45.0	1.75
York.....	59.3	41.6	49.6	46.4	1.71
Loughborough.....	61.5	42.2	51.2	47.6	1.96
Ardrossan.....	56.2	43.7	49.3	46.4	2.20
Donaghadee.....	55.9	43.6	49.5	47.3	2.15
Holyhead.....	56.0	46.1	50.3	47.8	1.88
Liverpool.....	57.5	44.7	50.6	46.8	1.74
Parsonstown.....	59.3	42.3	51.0	47.7	2.23
Valencia.....	58.1	45.9	52.8	49.5	2.89
Roche's Point.....	59.6	46.6	51.7	48.7	3.05
Pembroke.....	55.1	46.0	49.9	47.4	1.97
Seilly.....	56.3	48.2	52.7	50.3	1.66
Jersey.....	59.3	47.1	53.5	50.4	1.74
Hurst Castle.....	58.3	45.3	51.3	49.7	1.70
Dover.....	56.8	46.8	52.8	49.2	1.77
LONDON.....	62.1	44.1	52.4	48.4	1.73
Oxford.....	60.5	43.9	50.6	47.4	1.83
Cambridge.....	61.7	41.8	51.3	48.1	1.76
Yarmouth.....	55.4	44.8	50.5	48.0	1.85

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



GENERAL SITUATION AT 8 A.M.

PRESSURE

Highest, 30.2 in: and upwards, over Scandinavia; 30.1 in: and upwards in the south of Portugal.

Lowest, 29.7 in: and less, in a small depression lying off the north of Ireland; 29.8 in: and less, in a larger, but very shallow system lying over Germany.

Gradient slight. Barometer rising a little in France, Spain, and the south of England, but falling elsewhere.

TEMPERATURE

Highest, 62° at Mitz, 59° at Jersey and Berlin, 58° at Christiania, Stockholm and Belfast, 56° at Mirkosden and 55° at Khusmoro.

Lowest, 41° at Shields and York, 43° at Yarmouth and Lyons, and 45° at Kinn, Aberdeen and Penn H.

The highest maxima registered over our islands yesterday were 68° at Jersey and Cambridge, and 67° at Kinn, Loughborough and Parnetown.

WIND

Light or moderate from the End or NEnd over the south and east of England, and the north of Scotland, as well as in the Netherlands, North Germany, Denmark and the south of Scandinavia.

SE^{ly} in the northwest of our islands and SW^{ly} or W^{ly} on our eastern coast and southwest coasts.

Rather variable in France, but chiefly W^{ly}.

WEATHER

Fine over Scandinavia, Denmark, the Netherlands, and the greater part of England.

Cloudy or overcast elsewhere, with fog over the north of England, and rain at some of the Irish stations, as well as at Antwerp.

Heavy rain fell yesterday in the south of France and a thunderstorm occurred at Belmullet. Dimer hails were seen in several parts of England.

SEA

Moderate to smooth.

PROBABLE CHANGES IN SYSTEM NOW PREVALENT

The distribution of pressure over Western Europe is evidently undergoing a gradual change. The anticyclone over Scandinavia is giving way, while a new high pressure system is appearing over Spain, and the E^{ly} winds over England are therefore likely to subside.

No immediate change is probable in the weather.

FORECASTS

For the 24 hours ending at NOON on 3rd May 1890.

DISTRICTS.

FORECASTS.

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

E^{ly} and SE^{ly} winds, light or moderate; dull, some rain.

Light variable airs; dull, misty, some rain.

E^{ly} to Variable airs; fine to cloudy and misty.

DISTRICTS.

FORECASTS

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

SE^{ly} and S^{ly} winds, light; fine to dull and some rain.

S^{ly} and SW^{ly} winds, light; dull, rain locally.

SW^{ly} and W^{ly} winds, light or moderate; dull, some rain.

WARNINGS

NONE ISSUED.

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

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

YESTERDAY'S 2 P.M. REPORTS.

	BAR:	THER:		WIND		WEA.	SEA		BAR:	THER:		WIND		WEA.	SEA
		D.	W.	D.	F.					D.	W.	D.	F.		
Skudesnaes ...	30.15	60	53	W	2	c	2	Holyhead ...	29.89	61	52	E	3	c	2
Sumburgh Head ...	30.14	49	47	SSE	2	b	5	Valencia ...	29.83	58	50	NW	2	cm	3
Stornoway ...	29.97	55	53	S	2	o	2	Scilly ...	29.75	58	53	ESE	4	m	3
Aberdeen ...	30.11	50	47	SE	3	b	3	Jersey ...	29.78	64	56	SSE	3	c	4
Shields ...	30.05	49	48	E	3	bc	2	Dungeness ...	29.82	58	51	ENE	5	b	8
Ardrossan ...	29.96	60	54	E	2	om	1	London ...	29.87	62	53	E	2	b	4
Malin Head ...	29.89	53	48	SE	4	c	2	Yarmouth ...	29.91	52	50	E	4	b	0
Mullaghmore ...	29.86	59	50	ESE	5	om	3	Rocheport ...	29.80	62	53	S	1	o	0
Belmullet ...	29.56	51	48	NNE	1	o	*								

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

Weather fine over the greater part of Europe, but hazy in many parts of the United Kingdom. Drizzle in the extreme north-west of our Islands, as well as in Italy, Austria, and the west and south of Russia, and some parts of Central France, with rain at Lyons, Paris and Rome. Heavy rain in south of France during day, and a thunderstorm occurring at Belmullet in night. Sun also seen in some parts of England.

Temperature highest 55° and upwards over the Mediterranean and Southern Europe generally, as well as over the Baltic and the western part of the English Channel (Malta 63°, Brindisi, Marseilles, and Marseilles 61°, Legna, Algiers and La Palme 59°). Lowest 32° at Archangel, 42° at Stockholm, 43° at Haparanda and Vienna, 45° at Le Mans and Toulon, and 46° at Kuopio, Helsingfors, Copenhagen, Munich and Lyons. Subsequently rising to 65° and upwards over the central parts of the United Kingdom, and reaching 70° in the south of Sweden.

Wind light or moderate from the E. over the greater part of western, central and eastern Europe, but S. in Scotland, and variable over the northern parts of Scandinavia and Russia. SW. or W. over the Iberian Peninsula, S. in Algeria, and SE. in Italy; strong from SSE. at Cagliari and from E. at Toulon. Subsequently shifting to the NW. on the west coasts of Ireland and France.

Barometer highest, 30.3 in. to 30.5 in. and more in a large anticyclone lying over all the more northern parts of Scandinavia and Russia, high, 30.1 in. and upwards, in another system lying over Morocco. Lowest, 29.7 in. and less, in a depression lying over the Bay of Biscay, 29.8 in. and less in a small disturbance lying near Toulon, 30.0 in. and less, in a large shallow area lying over Southeastern Europe. Depression over Bay of Biscay subsequently moving eastwards, but small disturbance beginning to form over Ireland.

EXPLANATION OF COLUMNS GIVEN ON PAGE 1.

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

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

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

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

DAILY WEATHER REPORT.

for SATURDAY 3RD MAY.

1890.

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

STATIONS.	YESTERDAY EVENING.					8 A.M. TO DAY.										PAST 24 HOURS.		
	Barom.	Temp.	Wind.		Weather.	Barometer.		Shade Temp.			Wind.		Sea.	Shade Temp.		Amount of Rainfall.		
			Reading at 32° F. and Sea Level.	Dry.		Dir.	Force. (0 to 12.)	Reading at 32° F. and Sea Level.	Difference from 8 a.m. yesterday.	Dry.	Wet.	Difference from 8 a.m. yesterday.		Dir.	Force. (0 to 12.)		Max.	Min.
SCANDINAVIA.																		
Haparanda ...	30.15	46	N/E	2	C	30.12	-0.03	45	42	-4	N	2	C	*	63	30	—	
Hernösand ...	30.14	47	2	0	C	30.08	-0.18	51	?	+3	2	0	C	*	66	37	—	
Stockholm ...	30.12	52	2	2	C	30.07	-0.16	58	50	0	E/N/E	2	C	*	68	45	—	
Wishy ...	30.05	51	E/S/E	4	C	30.00	-0.09	64	54	+2	E/S/E	4	C	*	73	50	—	
Bodo ...	30.15	46	N	4	C	30.13	-0.12	45	42	-1	N	1	C	1	50	29	—	
CHRISTIANIA.																		
Christiansund ...	30.04	60	S/E	1	C	30.04	-0.09	53	51	+1	S/W	1	C	1	68	36	—	
Skudesnaes ...	29.99	51	2	0	C	29.97	-0.01	53	51	+4	E/N/E	2	C	3	9	48	0.01	
Christiania Fjord (Færd)	30.02	54	S/E	5	C	30.05	-0.05	50	47	-1	N	5	C	1	57	40	—	
Skagen (The Scaw)	29.94	59	E/S/E	1	C	29.95	-0.07	53	50	0	E	2	C	1	66	48	—	
Faño ...	29.83	55	E/N/E	3	C	29.80	-0.11	57	54	+4	E	4	C	*	64	58	—	
BRITISH ISLANDS.																		
Stumburgh Head	29.86	44	S/E	3	C	29.96	+0.02	47	46	0	E/S/E	1	C	5	49	42	0.07	
Stornoway ...	29.68	52	E	3	C	29.85	+0.01	49	48	-1	S/W	2	C	3	54	43	0.06	
Wick ...	29.76	47	S	3	C	29.90	+0.05	50	48	+1	S	2	C	1	50	43	0.02	
Nairn ...	29.73	52	E	1	C	29.86	-0.01	50	49	+5	2	0	C	0	54	44	—	
Aberdeen ...	29.84	47	S/E	4	C	29.90	+0.02	48	46	+3	W	1	C	2	52	38	0.01	
IRISH ISLANDS.																		
Leith ...	29.80	53	2	0	C	29.85	-0.04	50	49	+3	E	1	C	*	58	45	0.01	
Shields ...	29.83	50	S/E	3	C	29.87	-0.05	48	46	+7	2	0	C	2	51	39	—	
Spurn Head ...	29.88	47	S/E	5	C	29.86	-0.07	49	47	+4	S/E	3	C	2	50	44	—	
York ...	29.85	62	S/E	1	C	29.88	-0.06	49	45	+8	E/S/E	1	C	*	64	40	—	
Loughborough	29.85	65	E/S/E	3	C	29.86	-0.01	54	48	+8	S/E	3	C	*	69	40	—	
SCOTLAND.																		
Ardrossan ...	29.79	49	E	1	C	29.81	-0.03	52	49	+6	E/N/E	3	C	2	58	42	—	
Malin Head ...	29.71	48	W/S/W	2	C	29.74	+0.04	47	45	-2	E/S/E	4	C	1	54	40	0.17	
Mullaghmore ...	29.76	48	W/S/W	5	C	29.69	-0.04	46	42	-2	E	5	C	3	50	40	0.09	
Belmullet ...	29.76	49	W	3	C	29.61	-1.13	44	41	-2	E/S/E	5	C	*	50	42	0.04	
Donaghadee ...	29.70	50	S/W	3	C	29.79	-0.03	49	47	+1	S/E	5	C	3	53	47	0.08	
ENGLAND.																		
Liverpool (Bilston)	29.88	49	W/N/W	1	C	29.81	-0.06	52	49	+4	E/S/E	2	C	3	64	47	0.14	
Holyhead ...	29.85	48	S/W	4	C	29.79	-0.04	49	46	-6	S/E	3	C	2	55	45	0.07	
Parsonstown ...	29.81	51	2	0	C	29.64	-1.15	48	47	+2	S/E	2	C	*	53	37	0.06	
Valencia ...	29.84	49	S/W	4	C	29.33	-1.50	51	50	+2	E/S/E	8	C	6	53	45	0.52	
Roche's Point...	29.84	50	W/S/W	5	C	29.58	-1.26	49	49	+1	S/E	8	C	5	55	44	0.35	
IRELAND.																		
Pembroke (St. Ann's Hd.)	29.88	48	S/W	3	C	29.77	-0.08	48	47	0	S/E	5	C	4	51	46	0.16	
Scilly ...	29.91	50	W/N/W	4	C	29.68	-1.16	49	48	-2	S	5	C	3	54	45	0.06	
Prawle Point ...	29.89	53	W/N/W	3	C	29.85	-0.03	49	49	-5	S	3	C	2	55	43	—	
Jersey (St. Aubin's)	29.90	54	W/N/W	4	C	29.91	+0.05	53	50	-6	S/W	4	C	3	65	45	—	
Hurst Castle ...	29.89	52	W/S/W	2	C	29.88	-0.01	50	47	-2	W/S/W	2	C	0	64	46	—	
FRANCE.																		
Dungeness ...	29.90	52	E/N/E	3	C	29.89	+0.02	52	50	+2	E/N/E	2	C	1	53	37	—	
London ...	29.89	57	E/S/E	3	C	29.87	-0.04	53	47	+6	E	1	C	*	64	40	—	
Oxford ...	29.89	56	S/E	1	C	29.87	-0.05	50	45	+2	S/E	2	C	*	66	40	—	
Cambridge ...	29.88	59	E/S/E	1	C	29.88	-0.05	56	49	+6	S	1	C	*	69	38	—	
Yarmouth ...	29.93	46	N/E	2	C	29.89	-0.03	49	47	+6	N	1	C	2	50	36	—	
NETHERLANDS.																		
Cuxhaven ...	29.93	55	N/E	2	C	?	?	52	51	+2	N/E	2	C	*	62	?	0.08	
Berlin ...	29.78	60	2	0	C	29.78	-0.02	55	52	-4	S/E	4	C	*	72	52	—	
Wiesbaden ...	?	*	*	*	*	29.80	+0.05	53	50	-3	N/W	3	C	*	61	46	0.16	
Munich ...	29.84	49	S/W	3	C	29.88	+0.11	49	46	-1	S/W	5	C	*	52	45	0.39	
The Helder ...	29.89	48	N	2	C	29.82	-0.01	47	46	-1	N/N/W	2	C	3	52	46	—	
BELGIUM.																		
Brussels (9 a.m.)	?	*	*	*	*	29.88	+0.02	50	47	-2	W/S/W	1	C	*	66	44	—	
Cape Gris Nez	29.86	62	W/N/W	1	C	?	?	49	48	+1	S/E	2	C	1	58	41	—	
Paris ...	29.97	53	W/N/W	3	C	29.92	+0.09	50	50	0	N	1	C	*	?	41	—	
Brest ...	29.97	53	W/N/W	3	C	29.84	-0.04	53	50	+3	S/W	4	C	4	61	45	—	
Lorient ...	29.95	53	W/N/W	5	C	29.92	+0.17	51	49	+1	S/W	3	C	4	57	46	—	
FRANCE AND BELGIUM.																		
Rochefort ...	29.99	56	W/N/W	5	C	30.05	+0.16	53	51	0	W/S/W	3	C	2	68	45	—	
Belfort ...	29.87	50	W	1	C	29.88	+0.07	53	53	-3	N/W	1	C	*	66	46	—	
Lyons ...	29.86	60	S/W	1	C	29.88	+0.09	52	50	+9	E	1	C	*	64	?	0.24	
Nice ...	29.89	50	S/W	2	C	29.95	+0.09	51	48	+4	N/E	2	C	2	55	45	0.08	
Perpignan ...	29.93	60	N/W	2	C	30.01	+0.18	53	51	+8	W/N/W	3	C	*	62	?	0.55	
Biarritz ...	30.06	55	N/W	4	C	30.03	+0.16	51	49	-1	S	2	C	2	79	46	—	
SPAIN.																		
Corunna ...	?	*	*	*	*	?	?	?	?	?	?	?	?	?	?	?	?	
Lisbon ...	30.16	54	N/N/W	4	C	30.10	0.0	53	49	-1	W/N/W	1	C	4	61	50	—	

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

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

WEATHER CHARTS

for 8 a.m. on

Saturday, 3rd May,

1890.

BAROMETER, WIND AND SEA.

EXPLANATION OF MAP.

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

Changes since previous morning are stated in words.

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

their barbs and feathers refer to force thus—

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

→ = forces 5 to 7; → = forces 1 to 4.

☉ = dead calm.

SEA DISTURBANCE—Where considerable, is shown thus:

▨ = Rough. ▨ = High.

MEAN HEIGHT OF THE BAROMETER

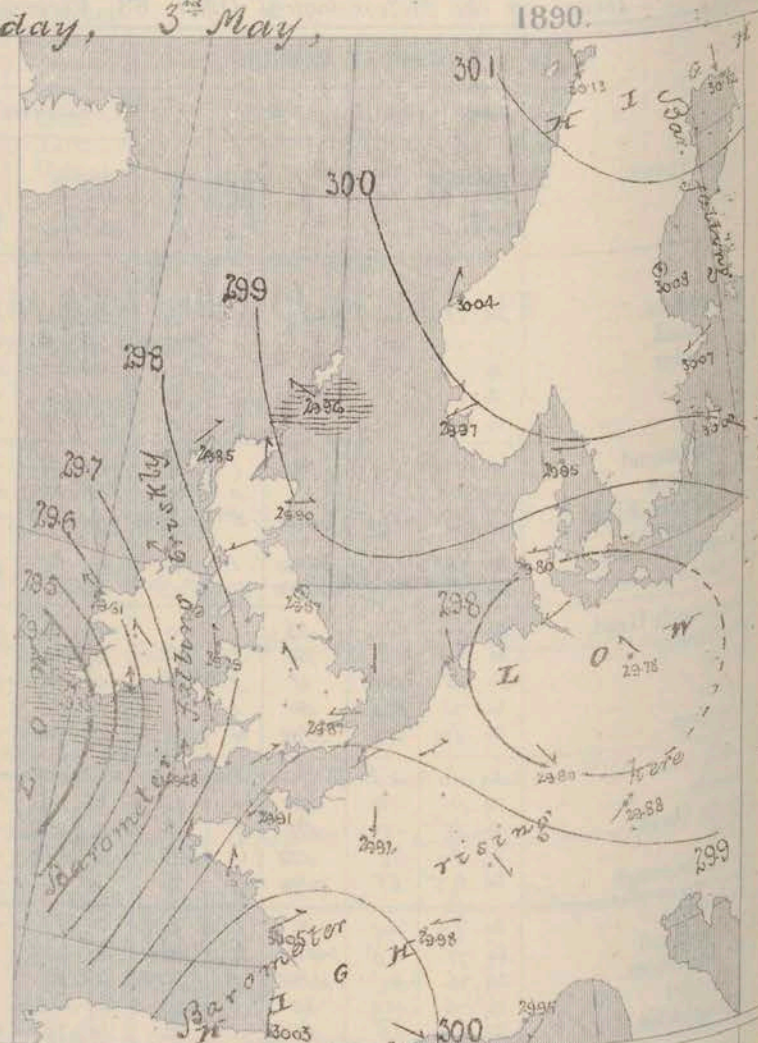
at 8.0 a.m. for the month of May.

During the 15 Years: 1871—1885.

STATIONS.

MEAN READINGS.

STATIONS.	MEAN READINGS.
Sumburgh Head	29.878
Stornoway	29.893
Wick	29.906
Nairn	29.918
Aberdeen	29.922
Leith	29.942
Shields	29.955
York	29.974
Loughborough	29.984
Ardrossan	29.949
Donaghadee	29.959
Holyhead	29.971
Liverpool	29.974
Parsonstown	29.976
Valencia	29.984
Roche's Point	29.979
Pembroke	29.977
Scilly	29.997
Jersey	30.002
Hurst Castle	29.994
Dover	29.985
LONDON	29.995
Oxford	29.993
Cambridge	29.989
Yarmouth	29.980



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.

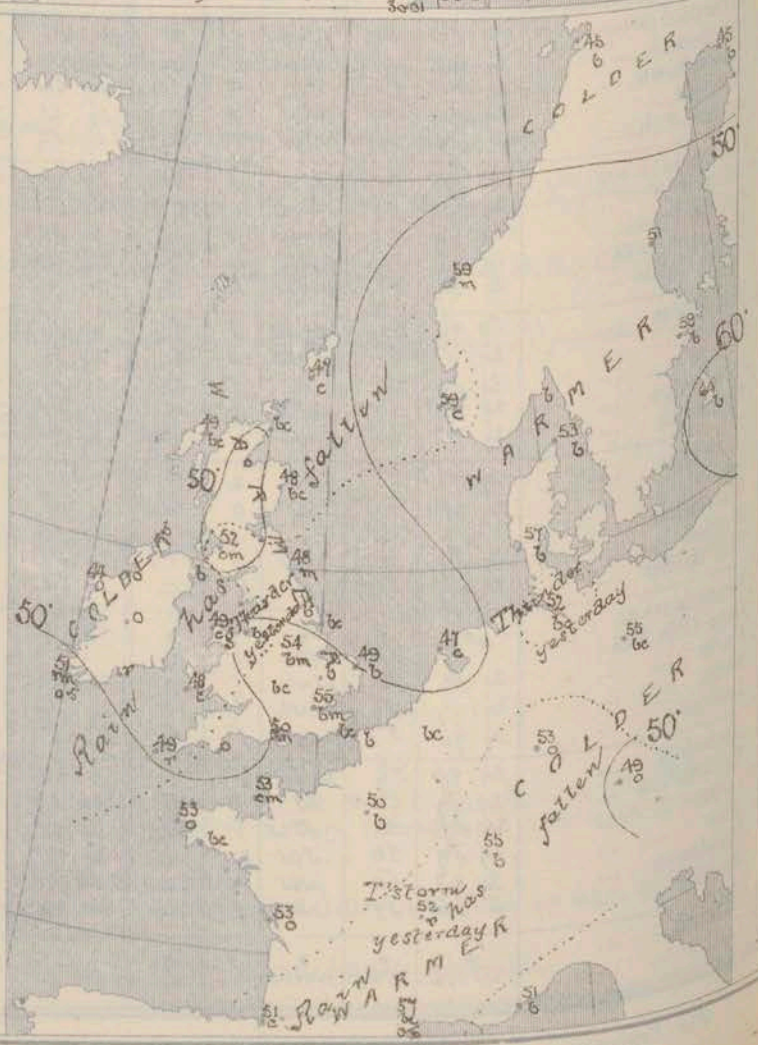
RAINFALL—A dotted line separates the districts in which rain has fallen from those where there has been none. Falls of 0.5 in. or more are quoted in figures.

MEANS OF TEMPERATURE IN SHADE, AND RAINFALL.

(For the month of May.)

STATIONS.	TEMPERATURE.				RAINFALL (Inches.)
	Daily Max.	Daily Min.	at 8 a.m. Dry.	Wet.	
Sumburgh Head	50.2	39.9	45.9	43.9	1.71
Stornoway	52.9	40.7	48.4	46.0	2.64
Wick	53.7	40.4	47.9	45.2	1.62
Nairn	55.9	42.0	48.4	45.0	1.67
Aberdeen	55.0	41.7	48.9	45.3	1.90
Leith	57.8	42.2	50.1	46.7	1.65
Shields	54.2	43.1	49.1	45.9	1.75
York	59.3	41.6	49.6	46.4	1.71
Loughborough	61.5	42.2	51.2	47.6	1.96
Ardrossan	56.2	43.7	49.3	46.4	2.20
Donaghadee	55.9	43.6	49.5	47.3	2.15
Holyhead	56.0	46.1	50.3	47.8	1.88
Liverpool	57.5	44.7	50.0	46.8	1.74
Parsonstown	59.3	42.3	51.0	47.7	2.23
Valencia	58.1	45.9	52.8	49.5	2.89
Roche's Point	59.0	46.0	51.7	48.7	3.05
Pembroke	55.1	46.0	49.9	47.4	1.97
Scilly	54.3	48.2	52.7	50.3	1.66
Jersey	59.3	47.1	53.5	50.4	1.74
Hurst Castle	58.3	45.3	51.3	49.7	1.70
Dover	56.8	46.8	52.8	49.2	1.77
LONDON	62.1	44.1	52.4	48.4	1.73
Oxford	60.5	43.9	50.6	47.4	1.85
Cambridge	61.7	41.8	51.3	48.1	1.76
Yarmouth	55.4	44.8	50.5	48.0	1.85

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



GENERAL SITUATION AT 8 A.M.

PRESSURE

Highest, 30.1 in. and upwards, in the north of Scandinavia, and also in the south of Spain.
 Lowest, 29.4 in. and less, in a deep depression lying to the southwestward of Ireland; low 29.8 in. and less, in a shallow system lying over Germany.
 Gradient steep over our extreme southern coasts, but slight elsewhere.
 Barometer falling quickly in the southwest of our islands, and to a less extent in Scandinavia, but rising in most other localities.

TEMPERATURE

Highest, 64° at Mitz, 59° at Christiania and Skutumpah, 58° at Stockholm, 57° at Åre and Rensjøen, and 56° at Cambridge.
 Lowest, 44° at Belmullet, 45° at Tappanville and Bodi, 46° at Mullaghmore, 47° at Lumbagh Head and Malin Head, and 48° at Buncrana, Skiddaw, and Harrogate.
 The highest maxima registered over our islands yesterday were 63° at Loughborough and Cambridge, and 66° at Oxford.

WIND

SE or S in the west of our islands and the northwest of France, with a fresh gale in the south of Ireland.
 Variable on the east coasts of Great Britain and also over Central France and the north of Scandinavia.
 Light or moderate from the E or NE in Denmark and the south of Scandinavia.

WEATHER

Dull in our extreme west and southern coasts, with rain at Valencia, Rochefort and Scilly.
 Fine in most other localities, but dull in South Germany and rainy at Lyons.
 Rain fell yesterday at several of our western stations, thunder occurred at Liverpool, and hails (solar and lunar) were seen in many parts of England.

SEA

Rough off the south of Ireland and rather rough at Lumbagh Head, but slight or smooth elsewhere.

PROBABLE CHANGES IN SYSTEM NOW PREVALENT

The depression off the southwest of Ireland seems likely to spread eastwards and occasion unsettled weather in most parts of the Kingdom. Its centre will probably move in a northerly direction outside our western coast.

FORECASTS

For the 24 hours ending at NOON on 4th May 1890.

DISTRICTS.	FORECASTS.	DISTRICTS.	FORECASTS
0 SCOTLAND NORTH	SE ^W winds, increasing in force; fine to dull and some rain.	1 6 SCOTLAND WEST	SE ^W and S ^W winds, increasing to a gale.
1 SCOTLAND EAST		1 7 ENGLAND N.W.	
2 ENGLAND N.E.		1 8 ENGLAND S.W.	S ^W to SW ^W winds, increasing to a gale, squally, rainy.
3 ENGLAND EAST	Same as N°5	1 9 IRELAND NORTH	SE ^W to S ^W gales, veering and moderating; later, squally, some rain.
4 MIDLAND COUNTIES		10 IRELAND SOUTH	
5 ENGLAND SOUTH	S ^W winds, freshening considerably; fair to dull and some rain.	WARNINGS	The SOUTH CONE has been hoisted this morning in districts 6 to 9.

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

YESTERDAY'S 2 P.M. REPORTS.

	BAR:	THER:		WIND		WEA.	SEA			BAR:	THER:		WIND		WEA.	SEA
		D.	W.	D.	F.						D.	W.	D.	F.		
Skudesnaes ...	29.81	54	50	SW	2	o	2			Holyhead ...	29.84	50	48	SW	4	bc
Sumburgh Head ...	29.87	47	46	SE	2	c	5			Valencia ...	29.87	52	46	WSE	4	bc
Stornoway ...	29.73	53	51	E	4	c	4			Scilly ...	29.91	52	48	WNW	4	c
Aberdeen ...	29.84	50	46	SE	4	bc	3			Jersey ...	29.90	59	54	WNW	3	bc
Shields ...	29.86	45	44	SE	3	m	2			Dungeness ...	29.91	52	49	ESE	4	bc
Ardrossan ...	29.76	53	50	E	1	o	1			London ...	29.91	60	53	E	1	bc
Malin Head ...	29.71	48	48	WSE	2	o	1			Yarmouth ...	29.94	50	47	NSE	2	bc
Mullaghmore ...	29.73	50	46	SW	4	cp	3			Rocherort ...	29.96	64	57	WNW	3	bc
Belmullet ...	29.74	50	46	WSE	3	c	*									

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

Weather continuing fair generally, over the greater part of France, England, the Netherlands, and eastern shores of the North Sea, as well as over Northern and Eastern Europe, cloudy elsewhere, raining in Ireland and on the northern shores of the Mediterranean. Continuing unsettled in last named regions during day, and rain falling in many parts of Germany also. Thunder reported at Liverpool, Corkhaven and elsewhere.

Temperature fallen decidedly in most parts of the British Islands, Morning readings exceeding 60° in many parts of North Germany and also at Constantinople, Brindisi and Malta, and exceeding 50° in most other parts of Europe, and the south of England; lower elsewhere, lowest of all being 36° at Archangel, 41° at Shields and York, 43° at Yarmouth, and 46° at Cambridge, Carronstown, and Belmullet. Rising to between 59° and 69° over the inland parts of England later, to 72° at Berlin, 73° at Wiesbaden, and 75° at Biarritz.

Wind very variable; mainly SE over Russia, the Baltic, and Scandinavia, NW over Spain, N in the south of France; very variable elsewhere — chiefly between SE and E. over the western part of the British Isles and W in the Channel.

Barometer highest, 30.1 ins. to 30.3 ins. in an anticyclone lying over Russia, Finland, and Scandinavia, 29.9 ins. to 30.1 ins. over Spain, Morocco and Western Algeria, lower over the British Islands and Central Europe. Lowest of all 29.7 ins. and less, in a depression off the northwest of Ireland, and 29.8 ins. and less, in two shallower disturbances lying, one over Western Germany, the other over the northern part of the Mediterranean. Depression off the Irish coast moving northwards later.

EXPLANATION OF COLUMNS GIVEN ON PAGE 1.

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

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

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

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

DAILY WEATHER REPORT.

for Sunday 4th May

1890.

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

STATIONS.	YESTERDAY EVENING.					8 A.M. TO DAY.										PAST 24 HOURS.		
	BAROM.	TEMP.	WIND.		Weather.	BAROMETER.		SHADE TEMP.			WIND.		Weather.	Sea. (0 to 9.)	SHADE TEMP.		Amount of Rainfall.	
	Reading at 32° F. and Sea Level.	Dry.	Dir.	Force. (0 to 12.)		Reading at 32° F. and Sea Level.	Difference from 8 a.m. yesterday.	Dry.	Wet.	Difference from 8 a.m. yesterday.	Dir.	Force. (0 to 12.)			Max.	Min.		
SCANDINAVIA.																		
Haparanda ...	30.03	41	Z	0	c	29.99	-.13	45	43	0	N	2	b	*	52	36	—	
Hernösand ...	30.04	41	Z	0	b	30.05	-.03	46	41	5	Z	0	b	*	59	36	—	
Stockholm ...	30.03	53	SE	2	b	30.02	-.05	58	51	0	Z	0	b	*	66	43	—	
Wisby ...	30.01	54	SE	4	b	29.95	-.05	61	53	3	SE	7	b	*	73	48	—	
Bodö ...	30.11	44	N	1	b	30.09	-.04	44	41	1	N	2	c	1	50	37	—	
SCANDINAVIA.																		
Christiansund ...	30.02	57	Z	0	m	29.99	-.05	54	50	5	ESE	1	m	1	62	50	—	
Skudesnaes ...	29.95	59	ENE	2	c	29.93	-.04	63	51	4	ENE	4	bc	3	68	54	—	
Christiania Fjord (Færder) ...	29.97	61	E	3	b	29.97	-.08	50	47	0	N	4	b	1	63	48	—	
Skagen (The Scaw)	29.91	61	ESE	1	o	29.91	-.04	54	52	1	ESE	1	b	0	63	50	0.12	
Fanö ...	29.80	56	E	3	b	29.76	-.04	55	52	2	E	4	b	*	66	48	—	
SCANDINAVIA.																		
Sumburgh Head ...	29.91	50	E	2	o	29.87	-.09	54	50	4	NE	2	b	4	54	46	—	
Stornoway ...	29.76	53	E	3	c	29.77	-.08	53	51	4	E	2	b	3	53	40	—	
Wick ...	29.85	46	SE	2	f	29.83	-.07	50	49	0	SE	2	f	2	55	43	—	
Nairn ...	29.80	56	E	1	bc	29.81	-.05	47	46	3	E	1	cm	1	66	41	—	
Aberdeen ...	29.87	48	ENE	1	bc	29.82	-.08	50	48	2	N	1	c	2	52	41	0.04	
SCANDINAVIA.																		
Leith ...	29.78	49	E	3	c	29.78	-.07	46	45	4	Z	0	m	*	63	41	—	
Shields ...	29.81	49	E	2	b	29.77	-.10	44	43	4	NNW	1	cp	2	51	39	—	
Spurn Head ...	29.79	49	ESE	3	b	29.72	-.14	51	48	2	ENE	2	bc	1	54	44	—	
York ...	29.78	61	E	1	b	29.74	-.14	51	46	2	N	1	b	*	69	37	—	
Loughborough ...	29.78	62	SSW	3	c	29.74	-.12	54	49	0	NNE	2	bc	*	70	38	—	
SCANDINAVIA.																		
Ardrrossan ...	29.75	52	Z	0	c	29.73	-.08	51	47	1	ENE	3	bc	0	60	42	—	
Malin Head ...	29.64	46	SSE	5	o	29.67	-.07	48	46	1	ESE	4	om	1	55	46	0.04	
Mullaghmore ...	29.58	51	SE	6	o	29.62	-.07	50	49	4	ENE	4	op	2	51	45	0.13	
Belmullet ...	29.55	52	SW	2	o	29.57	-.04	51	50	4	ESE	3	o	*	52	43	0.18	
Donaghadee ...	29.74	50	SW	2	bc	29.71	-.08	50	48	1	ESE	3	o	1	53	48	0.01	
SCANDINAVIA.																		
Liverpool (Bidston)	29.76	56	SSE	1	c	29.70	-.11	58	51	6	ESE	2	bc	2	62	49	—	
Holyhead ...	29.73	54	SSE	4	o	29.67	-.12	54	50	5	SE	1	og	2	58	49	—	
Parsonstown ...	29.57	50	Z	0	c	29.57	-.07	51	50	3	ESE	2	r	*	57	45	0.25	
Valencia ...	29.53	52	SSE	4	c	29.51	-.18	48	46	3	Z	0	cv	1	53	43	0.02	
Roche's Point...	29.59	52	SSW	4	b	29.49	-.06	49	49	0	N	2	f	4	55	44	0.05	
SCANDINAVIA.																		
Pembroke (St. Ann's Hd.)	29.67	49	SE	5	r	29.58	-.19	49	48	1	SE	6	opq	4	49	46	0.34	
Seilly ...	29.51	49	WSW	1	r	29.49	-.19	50	48	1	ENE	1	bc	4	54	46	0.45	
Prawle Point ...	29.66	49	SE	4	r	29.62	-.23	49	49	0	SE	3	og	3	51	48	0.12	
Jersey (St. Aubin's)	29.81	56	SSE	2	o	29.62	-.29	54	52	1	E	3	ogmp	3	60	51	0.03	
Hurst Castle ...	29.74	52	SSE	3	bc	29.68	-.20	53	51	3	E	3	bc	1	56	48	—	
SCANDINAVIA.																		
Dungeness ...	29.83	50	SW	2	b	29.70	-.19	52	49	0	ESE	3	m	2	54	41	—	
London ...	29.82	58	SSE	2	b	29.71	-.16	50	47	5	E	1	omg	*	67	42	—	
Oxford ...	29.80	52	SSW	2	c	29.71	-.16	50	48	0	SSE	1	op	*	63	45	—	
Cambridge ...	29.79	52	S	1	c	29.72	-.16	56	51	0	S	1	b	*	71	38	—	
Yarmouth ...	29.84	52	SE	2	b	29.74	-.15	50	48	1	S	1	b	2	54	43	—	
SCANDINAVIA.																		
Cuxhaven ...	29.81	57	SE	2	o	29.81	+.03	57	53	2	SSE	4	b	*	64	48	0.08	
Berlin ...	*	*	*	*	*	29.80	.00	57	50	1	NW	1	bc	*	59	45	—	
Wiesbaden ...	*	*	*	*	*	29.88	.00	52	48	3	SE	1	b	*	57	36	—	
Munich ...	29.93	45	SW	2	bc	29.88	.00	52	48	3	SE	1	b	*	57	36	—	
The Helder ...	29.79	46	NW	1	f	29.73	-.09	45	45	2	W	1	f	1	48	45	—	
SCANDINAVIA.																		
Brussels (9 a.m.)	*	*	*	*	*	29.76	-.12	54	48	4	WNW	1	b	*	64	44	—	
Cape Gris Nez ...	?	48	SW	2	m	?	?	55	49	6	E	1	m	0	59	45	—	
Paris ...	29.86	63	WSW	2	b	29.74	-.18	55	52	5	E	1	c	*	71	48	—	
Brest ...	29.73	52	S	5	r	29.57	-.27	52	49	1	S	5	o	5	61	47	0.12	
Lorient ...	29.80	50	SSW	4	r	29.57	-.35	51	49	0	SSW	3	r	5	55	48	0.16	
SCANDINAVIA.																		
Rocheport ...	29.89	60	WSW	2	c	29.63	-.42	50	53	3	SE	5	o	?	68	46	—	
Belfort ...	29.88	50	S	1	b	29.89	+.01	55	53	0	S	1	b	*	67	45	—	
Lyons ...	29.89	60	NW	2	c	29.79	-.19	53	?	1	SE	2	bc	*	66	47	—	
Nice ...	29.92	53	SW	3	b	29.84	-.11	55	52	4	SW	2	b	*	61	46	—	
Perpignan ...	29.90	61	E	3	b	29.73	-.28	56	54	1	N	2	c	*	67	46	—	
Biarritz ...	29.78	69	E	3	b	29.57	-.46	63	59	12	WSW	2	o	0	72	51	—	
SCANDINAVIA.																		
Corunna ...	*	*	*	*	*	29.69	-.14	56	51	1	S	5	c	4	59	46	0.35	
Lisbon ...	29.96	55	SW	4	o	29.91	-.19	53	49	0	NNW	3	b	5	57	50	0.08	

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

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

WEATHER CHARTS

for 8 a.m. on Sunday, 4th May, 1890.

BAROMETER, WIND AND SEA.

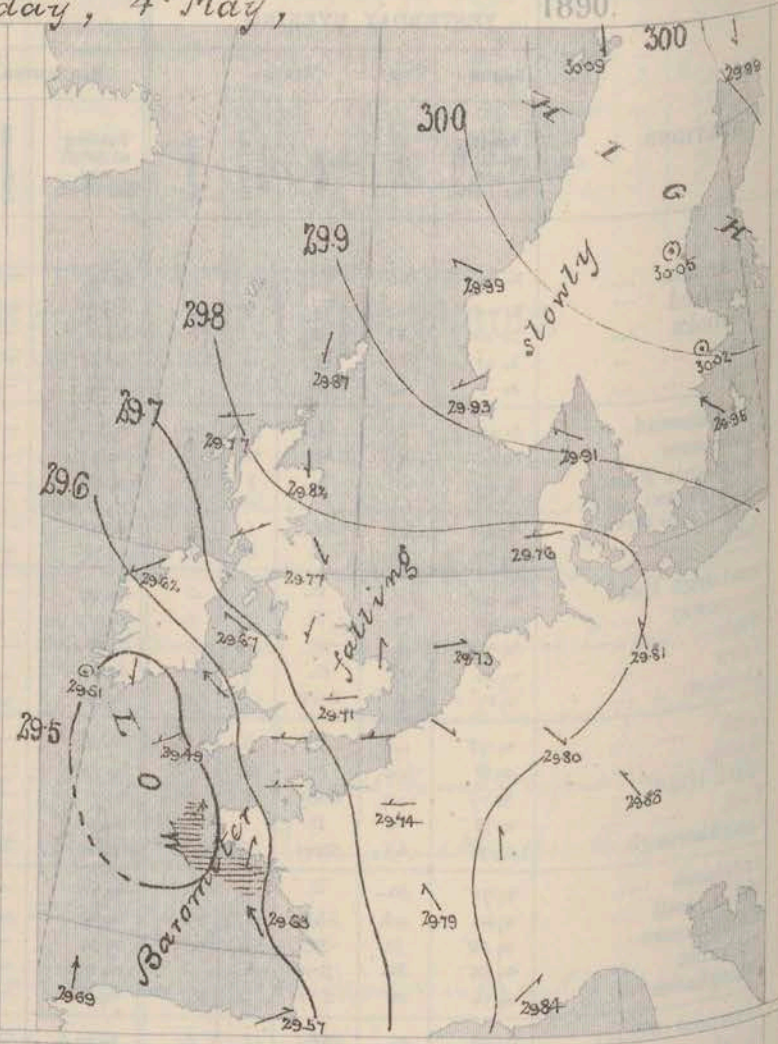
EXPLANATION OF MAP.

BAROMETER—Isobars are drawn for each tenth of an inch. Changes since previous morning are stated in words.
WIND—Arrows show the prevalent winds. They fly with the wind and their barbs and feathers refer to force thus—
→ = forces above 10; →→ = forces 8 to 10;
→→ = forces 5 to 7; →→ = forces 1 to 4.
⊙ = dead calm.
SEA DISTURBANCE—Where considerable, is shown thus:
▨ = Rough. ▨ = High.

MEAN HEIGHT OF THE BAROMETER

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

STATIONS.	MEAN READINGS.
	in.
Sumburgh Head	29.878
Stornoway	29.893
Wick	29.906
Nairn	29.918
Aberdeen	29.922
Leith	29.942
Shields	29.955
York	29.974
Loughborough	29.984
Ardrossan	29.949
Donaghadee	29.959
Holyhead	29.971
Liverpool	29.974
Parsonstown	29.976
Valencia	29.984
Roche's Point	29.979
Pembroke	29.977
Sally	29.997
Jersey	30.002
Hurst Castle	29.994
Dover	29.985
LONDON	29.995
Oxford	29.993
Cambridge	29.989
Yarmouth	29.980



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

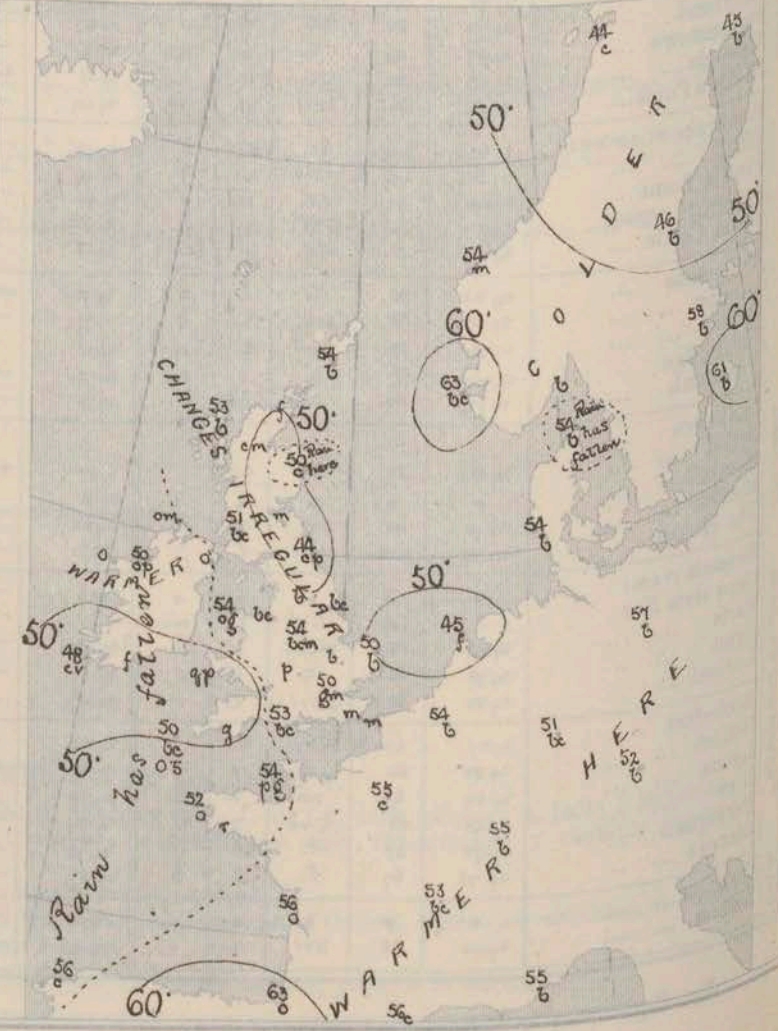
TEMPERATURE—Isotherms are drawn for each 10°. Changes since previous morning are stated in words.
WEATHER—is shown by letters of the Beaufort Scale.
RAINFALL—A dotted line separates the districts in which rain has fallen from those where there has been none. Falls of 0.5 in. or more are quoted in figures.

MEANS OF TEMPERATURE IN SHADE, AND RAINFALL.

(For the month of May.)

STATIONS.	TEMPERATURE.				RAINFALL. (Inches.)
	Daily Max.	Daily Min.	at 8 a.m.		
			Dry.	Wet.	
Sumburgh Head.....	50.2	39.9	45.9	43.9	1.71
Stornoway	52.9	40.7	48.4	46.0	2.64
Wick	53.7	40.4	47.9	45.2	1.62
Nairn	55.9	42.0	48.4	45.0	1.67
Aberdeen	55.0	41.7	48.9	45.3	1.90
Leith	57.8	42.2	50.1	46.7	1.65
Shields	51.2	43.1	49.1	45.9	1.76
York	59.8	41.6	49.6	46.4	1.71
Loughborough	61.5	42.2	51.2	47.6	1.96
Ardrossan	56.2	43.7	49.3	46.4	2.20
Donaghadee	55.9	43.6	49.5	47.3	2.15
Holyhead.....	56.0	43.1	50.3	47.8	1.88
Liverpool	57.5	44.7	50.0	46.8	1.74
Parsonstown	59.3	42.8	51.0	47.7	2.23
Valencia	58.1	45.0	52.8	49.5	2.89
Roche's Point	59.6	46.0	51.7	48.7	3.05
Pembroke	55.1	45.6	49.9	47.4	1.97
Sally	50.3	48.2	52.7	50.3	1.69
Jersey	59.8	47.1	53.5	50.4	1.74
Hurst Castle	58.3	45.3	51.3	49.7	1.70
Dover	50.8	46.8	52.8	49.2	1.77
LONDON	62.1	44.1	52.4	48.4	1.73
Oxford	60.5	43.3	50.6	47.1	1.85
Cambridge	61.7	41.8	51.3	48.1	1.76
Yarmouth	55.4	43.5	50.5	48.0	1.84

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



GENERAL SITUATION AT 8 A.M.

PRESSURE

Highest, 30.0 in. and upwards, over the greater part of Scandinavia; 29.9 in. and upwards, in the south of Portugal.
 Lowest, 29.5 in. and less, in an irregularly formed depression lying over our extreme eastern coasts.

Gradient moderate in the west of our islands, slight elsewhere.

Barometer falling generally, — most in the west of France.

TEMPERATURE

Highest, 63° at Luleå, and 61° at Viki; 65° at Stockholm; 57° at Berlin; and 56° at Cambridge, Rochefort, Cognac and Bourne.

Lowest, 44° at Liss and Shields; 48° at Haparanda and the Spitz; 46° at Kermadec and Leth; and 41° at Nam.

The highest maxima registered over our islands yesterday were 71° at Cambridge, 70° at Loughborough, and 68° at York.

WIND

Light or moderate from the E. or S.E. over the greater part of the United Kingdom, as well as in the north of France, and on the eastern shore of the North Sea.

Variable in Western Germany and the south of France; light from the N. in the north of Scandinavia.

During yesterday the winds rose to a moderate gale from the S.E. in the northwest of Ireland.

WEATHER

Dull and showery on the west coasts of our islands and France, and foggy at Rochefort.

Fine in nearly all other parts of Western Europe.

Rain fell yesterday at many of our western stations, and solar and lunar halo were seen in some parts of England.

SEA

Rather rough off the northwest of France, but moderate to smooth elsewhere.

PROBABLE CHANGES IN SYSTEM NOW PREVALENT

FORECASTS

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

DISTRICTS.

FORECASTS.

DISTRICTS.

FORECASTS.

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

NONE ISSUED

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

NONE ISSUED

WARNINGS

NONE ISSUED

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

YESTERDAY'S 2 P.M. REPORTS.

	BAR:	THER:		WIND		WEA.	SEA		BAR:	THER:		WIND		WEA.	SEA
		D.	W.	D.	F.					D.	W.	D.	F.		
Skudesnaes ...	29.96	67	54	E	4	bc	2		Holyhead ...	29.77	57	49	S	4	bc
Sumburgh Head ...	29.95	48	47	ESE	2	o	5		Valencia ...	29.50	53	50	S	6	rm
Stornoway ...	29.83	52	50	E	4	c	4		Scilly ...	29.63	51	51	S	6	r
Aberdeen ...	29.90	49	47	ESE	2	b	2		Jersey ...	29.86	59	54	SE	3	bc
Shields ...	29.84	49	46	ESE	2	b	2		Dungeness ...	29.86	57	49	SE	3	m
Ardrossan ...	29.75	53	50	L	0	o	0		London ...	29.82	66	55	SE	3	bc
Mulin Head ...	29.62	52	47	ESE	5	bc	2		Yarmouth ...	29.88	54	49	ESE	2	b
Mullaghmore ...	29.60	49	46	ESE	7	ogp	4		Rocheport ...	29.01	61	55	WSE	3	c
Belmullet ...	29.50	49	48	ESE	7	o	*								

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

Weather fine over the greater part of Europe, but dull in the extreme west and southwest of our Islands, as well as at some of the French and Italian stations. Rain falling in morning at Valencia, Rocher Point, and Scilly, and also at Lyons, Rome, Calabre, and Genoa. Rainy weather afterwards setting in at most of our own western stations, as well as over Southern Italy; solar and lunar halo seen in many parts of England.

Temperature highest 60° and upwards, at several of the Mediterranean stations, as well as over the Baltic (Wist, 64°, Memel, Barcelona and Brindisi 63°, Oren 62°, and Algiers and Malta 61°); above 55° in some parts of our eastern counties. Lowest 21° at Archangel, 44° at Belmullet and Kinnegad, 45° at Looe, Raparanda, and Uleaborg, and 46° at Mullaghmore. Subsequently rising to 70° or a little more in some parts of central England as well as over the Baltic, the extreme south of France and some parts of Algeria; daily maxima slightly below that point over Southern Europe generally.

Wind SE⁵ or S³ in the west of our Islands and the northwest of France, with a fresh gale in the south of Ireland. Variable on the east coasts of Great Britain, as well as over central France, the north of Scandinavia and the greater part of Russia. Well-marked cyclonic circulation of light or moderate breezes over Denmark, Germany, and the Netherlands. Light NE³ or E⁴ winds in Italy, NW⁵ breezes over Eastern Algeria. Gale in south of Ireland moderating later.

Barometer highest, 30.2 ins. and upwards over Northern Russia; 30.1 ins. and upwards over Algeria and the south of Spain. Lowest, 29.4 ins. and less, in a rather deep depression lying to the southward of Ireland, 29.8 ins. and less, in a shallow system lying over Germany; 29.9 ins. and less, in three still shallower areas lying respectively to the eastward, westward, and southward of Italy. Depression off Irish coasts subsequently travelling away in a northwesterly direction, but small secondary disturbance appearing near mouth of Bristol Channel.

EXPLANATION OF COLUMNS GIVEN ON PAGE 1.

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

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

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

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

DAILY WEATHER REPORT.

for *Monday, 5th May, 1890.*
Issued by the Meteorological Office, 63, Victoria Street, London. R. H. SCOTT, Secretary.

STATIONS.	YESTERDAY EVENING.						8 A.M. TO DAY.										PAST 24 HOURS.		
	BAROM.	TEMP.	WIND.		Weather.	Force. (0 to 12.)	BAROMETER.		SHADE TEMP.			WIND.		Force. (0 to 12.)	Weather.	Sea. (0 to 8.)	SHADE TEMP.		Amount of Rainfall.
	Reading at 32° F. and Sea Level.	Dry.	Dirca.	Force.			Reading at 32° F. and Sea Level.	Difference from 8 a.m. yesterday.	Dry.	Wet.	Difference from 8 a.m. yesterday.	Dirca.	Force.				Max.	Min.	
SCANDINAVIA.																			
Haparanda ...	29.97	41	W	2	b		30.02	+0.3	40	39	-5	NE	4	b	c	*	54	34	.
Hernösand ...	29.99	44	W	0	b		29.94	-1.1	53	49	+7	W	0	b	c	*	63	34	.
Stockholm ...	29.97	55	W	0	b		29.96	-1.06	59	51	+1	E	2	b	c	*	68	45	.
Wisby ...	29.89	51	SE	4	b		29.89	-1.06	61	53	0	ESE	4	b	c	*	68	46	.
Bodo ...	30.05	41	W	2	b		29.99	-1.10	43	40	-1	N	2	b	c	1	?	34	.
CHRISTIANIA.																			
Christiansund ...	29.97	55	NE	3	b		29.95	-0.04	50	48	-4	ESE	3	m	2	2	59	48	.
Skudesnaes ...	29.89	59	W	0	c		29.90	-0.03	60	50	-3	E	2	b	c	3	72	52	.
Christiania Fjord ...	29.91	58	ESE	2	b		29.90	-0.07	52	50	+2	N	2	b	c	1	63	?	.
Skagen (The Seaw) ...	29.86	62	W	0	b		29.86	-0.05	54	51	0	E	1	b	c	0	70	52	.
Fanö ...	29.75	54	ESE	4	c		29.73	-0.03	55	53	0	ESE	4	b	c	*	66	48	.
SCOTLAND.																			
Sumburgh Head ...	29.89	53	NE	2	b		29.86	-0.01	56	49	+2	NE	2	b	c	3	58	47	.
Sornoway ...	29.72	57	E	4	b		29.79	+0.02	55	54	+2	E	3	b	c	3	61	45	.
Wick ...	29.84	48	SE	2	b		29.83	-0.00	51	49	+1	SE	1	0	1	1	57	37	.
Nairn ...	29.76	53	W	0	b		29.82	+0.01	47	46	0	E	1	b	c	1	53	43	.
Aberdeen ...	29.81	50	NE	2	b		29.78	-0.04	54	50	+4	NE	2	b	c	2	57	44	.
ENGLAND.																			
Leith ...	29.74	47	E	3	m		29.74	-0.04	48	47	+2	E	2	om	*	2	50	46	.
Shields ...	29.71	47	NNE	2	b		29.67	-1.10	47	47	+3	NNE	1	b	c	2	48	43	0.01
Spurn Head ...	29.66	47	ESE	2	b		29.61	-1.11	46	46	-5	NE	2	b	c	2	53	42	.
York ...	29.66	60	E	1	b		29.63	-1.11	50	48	-1	NNE	1	0	1	1	69	45	.
Loughborough ...	29.61	62	E	3	c		29.60	-1.14	46	45	-8	NNE	3	om	*	2	69	43	.
IRELAND.																			
Ardrassan ...	29.67	60	ESE	3	c		29.69	-0.04	51	49	0	ESE	4	om	2	2	65	48	.
Malin Head ...	29.67	52	ESE	2	b		29.66	-0.01	50	49	+2	E	5	b	c	2	54	47	.
Mullaghmore ...	29.63	54	E	2	og		29.63	+0.01	50	48	0	ESE	5	om	4	4	55	48	.
Belmullet ...	29.61	54	E	2	og		29.62	+0.05	54	51	+3	E	1	b	c	*	57	50	0.02
Donaghadee ...	29.66	56	NE	2	b		29.66	-0.05	53	51	+3	NE	4	b	c	2	58	49	.
BRITISH ISLANDS.																			
Liverpool (Bidston) ...	29.63	54	NW	1	b		29.58	-1.12	51	48	-7	ESE	3	om	3	3	65	47	.
Holyhead ...	29.63	53	NNE	1	og		29.57	-1.10	50	48	-4	ESE	4	og	4	4	58	47	0.01
Parsonstown ...	29.59	55	SE	1	og		29.56	-1.01	51	49	0	SE	2	0	*	2	56	49	.
Valencia ...	29.55	55	SW	1	om		29.49	-1.02	53	51	+5	NW	3	om	3	3	55	48	0.05
Roche's Point ...	29.55	50	SSE	2	r		29.57	+0.08	54	50	+5	E	4	c	4	4	55	48	0.30
EUROPE.																			
Pembroke (St. Ann's Hd.) ...	29.56	50	SE	2	r		29.46	-1.12	50	49	+1	ESE	4	og	3	3	56	48	0.04
Scilly ...	29.51	51	N	1	0		29.42	-1.07	51	50	+1	NW	2	0	4	4	53	45	0.39
Prawle Point ...	29.44	49	ESE	5	0		29.49	-1.13	48	47	-1	SW	4	og	3	3	51	46	0.55
Jersey (St. Aubin's) ...	29.48	57	ESE	4	og		29.55	-1.07	53	50	-1	SSE	4	c	3	3	59	50	0.26
Hurst Castle ...	29.53	54	ESE	2	c		29.55	-1.13	50	50	-3	SW	3	ca	1	1	60	49	0.31
FRANCE AND BELGIUM.																			
Dungeness ...	29.56	52	ESE	4	c		29.54	-1.16	49	49	-3	NW	5	cp	3	3	57	49	0.04
London ...	29.58	59	ESE	3	c		29.53	-1.18	49	47	-1	ESE	1	og	*	2	66	48	0.06
Oxford ...	29.57	56	ESE	3	0		29.55	-1.16	45	44	-5	NE	2	r	*	2	62	44	0.01
Cambridge ...	29.63	58	S	1	b		29.55	-1.17	51	48	-5	NE	1	0	*	2	71	43	.
Yarmouth ...	29.66	53	E	2	b		29.57	-1.17	48	47	-2	ESE	4	ca	3	3	55	41	0.02
GERMANY.																			
Cuxhaven ...	29.76	53	SSE	2	b		29.77	-1.10	52	51	-1	ESE	2	m	*	2	58	50	0.08
Berlin ...	29.76	61	W	0	b		29.71	-1.10	60	56	+3	ESE	3	b	*	2	68	52	.
Wiesbaden ...	*	*	*	*	*		29.67	-1.13	59	49	+2	E	2	b	*	2	66	46	.
Munich ...	*	*	*	*	*		29.67	-1.21	59	49	+1	NW	4	c	*	2	63	39	.
The Helder ...	29.72	52	NE	3	b		29.67	-1.14	51	50	+6	ESE	1	c	2	2	?	45	.
NETHERLANDS.																			
Brussels (9 a.m.) ...	29.66	46	N	1	b		29.59	-1.14	51	50	+6	ESE	1	c	2	2	?	45	.
FRANCE AND BELGIUM.																			
Cape Gris Nez ...	*	*	*	*	*		29.61	-1.15	55	52	+1	S	2	0	*	2	63	52	.
Paris ...	?	54	E	3	0		?	?	50	50	-5	W	3	m	3	3	63	50	.
Brest ...	29.52	61	NW	2	0		29.68	-1.06	48	47	-7	SW	3	0	*	2	?	47	0.08
Lorient ...	29.50	51	W	2	0		29.49	-1.08	51	49	-1	SW	3	c	*	2	61	46	0.12
SPAIN.																			
Rocheport ...	29.52	50	NW	4	r		29.54	-1.03	51	49	0	SW	4	b	*	2	52	46	0.83
ITALY.																			
Belfort ...	29.68	52	W	5	0		29.72	+0.09	51	48	-5	S	5	c	?	?	61	49	0.12
Lyons ...	29.73	62	W	1	r		29.75	-1.14	57	42	+2	W	1	0	*	2	68	48	0.47
Nice ...	29.62	60	SSW	3	c		29.77	-1.14	50	48	-2	NW	1	b	*	2	69	44	0.16
Perpignan ...	29.76	56	W	4	b		29.74	-1.10	51	47	-4	SW	4	b	*	2	64	50	.
Biarritz ...	29.67	57	N	2	b		29.77	+0.04	57	53	+1	W	0	b	*	2	75	45	0.20
PORTUGAL.																			
Corunna ...	29.73	56	SW	2	b		29.67	+0.10	57	48	-6	S	3	b	*	2	66	45	0.04
Lisbon ...	29.89	53	NW	4	0		29.83	-1.08	54	51	+1	NW	4	0	5	5	59	52	0.04

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

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

WEATHER CHARTS

for 8 a.m. on

Monday, 5th May,

1890.

BAROMETER, WIND AND SEA.

EXPLANATION OF MAP.

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

Changes since previous morning are stated in words.

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

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

→ = forces 5 to 7; → = forces 1 to 4.

⊙ = dead calm.

SEA DISTURBANCE—Where considerable, is shown thus:

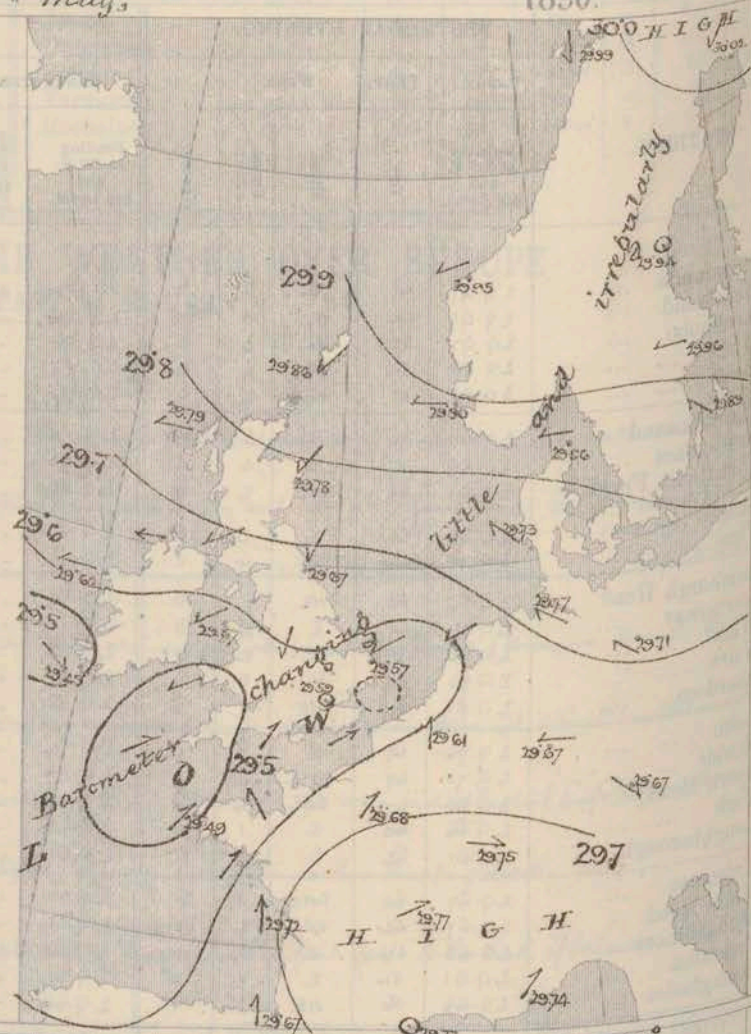
▨ = Rough. ▨ = High.

MEAN HEIGHT OF THE BAROMETER

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

During the 15 Years: 1871—1885.

STATIONS.	MEAN READINGS.
Sumburgh Head	29.878
Stornoway	29.893
Wick	29.900
Nairn	29.918
Aberdeen	29.922
Leith	29.942
Shields	29.955
York	29.974
Loughborough	29.984
Ardrossan	29.949
Donaghadee	29.959
Holyhead	29.971
Liverpool	29.974
Parsonstown	29.976
Valencia	29.984
Roche's Point	29.979
Pembroke	29.977
Silly	29.997
Jersey	30.002
Hurst Castle	29.994
Dover	29.985
LONDON	29.995
Oxford	29.993
Cambridge	29.989
Yarmouth	29.980



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.

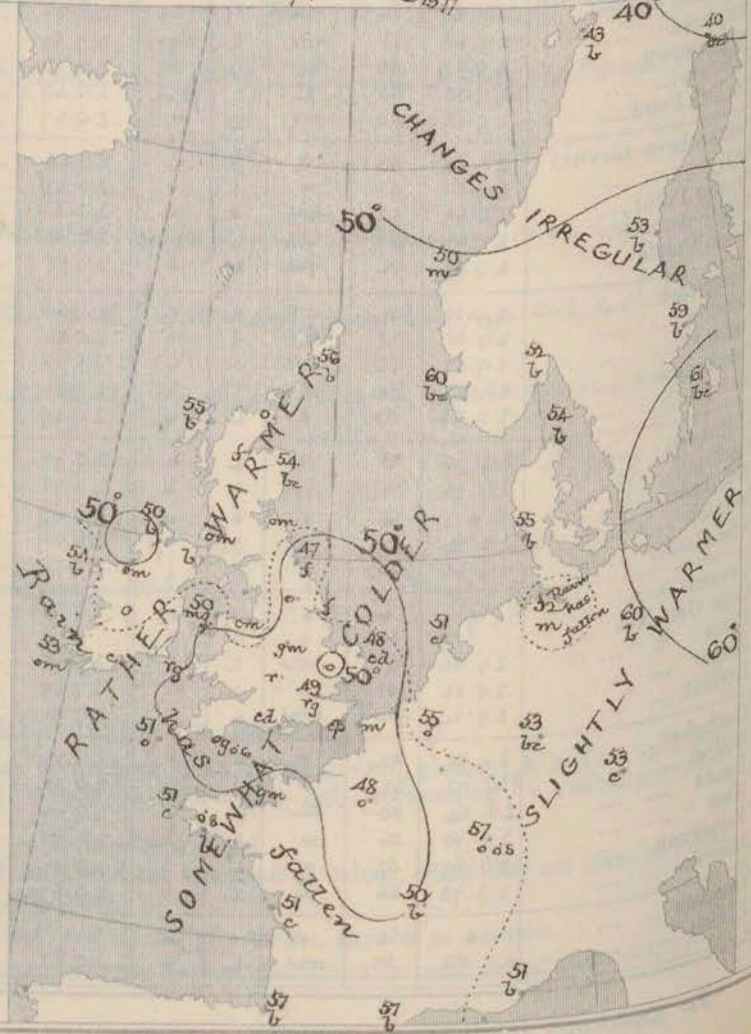
RAINFALL—A dotted line separates the districts in which rain has fallen from those where there has been none. Falls of 0.5 in. or more are quoted in figures.

MEANS OF TEMPERATURE IN SHADE, AND RAINFALL.

(For the month of May.)

STATIONS.	TEMPERATURE.				RAINFALL. (Inches.)
	Daily Max.	Daily Min.	at 8 a.m.		
			Dry.	Wet.	
Sumburgh Head	50.2	39.9	45.9	43.9	1.71
Stornoway	52.0	40.7	48.4	46.0	2.61
Wick	53.7	40.4	47.9	45.2	1.62
Nairn	55.9	42.0	48.4	45.0	1.67
Aberdeen	55.0	41.7	48.9	45.3	1.90
Leith	57.8	42.2	50.1	46.7	1.65
Shields	54.2	43.1	49.1	45.9	1.74
York	59.3	41.6	49.6	46.4	1.71
Loughborough	61.5	42.2	51.2	47.6	1.96
Ardrossan	56.2	43.7	49.3	46.1	2.20
Donaghadee	55.9	43.0	49.5	47.3	2.15
Holyhead	56.0	46.1	50.3	47.8	1.88
Liverpool	57.5	44.7	50.6	46.8	1.74
Parsonstown	59.3	42.3	51.0	47.7	2.23
Valencia	58.1	45.9	52.8	49.5	2.89
Roche's Point	59.6	46.0	51.7	48.7	3.05
Pembroke	55.1	40.0	49.9	47.1	1.97
Silly	56.3	48.2	52.7	50.3	1.60
Jersey	59.3	47.1	53.5	50.4	1.74
Hurst Castle	58.3	45.3	51.3	49.7	1.70
Dover	56.8	46.8	52.8	49.2	1.77
LONDON	62.1	44.1	52.4	48.4	1.73
Oxford	60.5	43.9	50.6	47.4	1.83
Cambridge	61.7	41.8	51.3	48.1	1.76
Yarmouth	56.4	44.8	50.5	48.0	1.85

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



GENERAL SITUATION AT 8 A.M.

PRESSURE

Highest, 29.9 ins. to 30.0 ins. over Sweden and Norway, and 29.7 ins. and more, over the southern half of France.
 Lowest, 29.5 ins. and less, in three shallow depressions - one lying near Valencia, another over the southwest of England, and the third off the mouth of the Thames.
 Gradients slight - for SW winds over France and the Channel, and for E, variable, over the British Islands.
 Barometer changing little and irregularly.

TEMPERATURE

Highest, 61° at Wick, 60° at Kullen and Berlin, 57° at Perpignan and Biarritz, 56° at Hamburg, 55° at Stornoway.
 Lowest, 40° to 43° in the extreme north of Scandinavia, 46° at Oxford, 46° at Loughborough, 48° at Paris, and 48° in London.
 During yesterday, the thermometer rose to between 60° and 71° over the inland parts of England, and the succeeding night was mild.

WIND

E⁶ (but rather variable between SE and NE.) over the British Islands and North Sea; SW³ to W² over France.
 Light or moderate in force generally. In London it was dead calm.

WEATHER

Fair, but breezy, at the northern stations, and also in the south of France; cloudy and unsettled elsewhere, with rain over the greater part of our southern and southwestern counties. The rainfall measured this morning was rather heavy at stations near the mouth of the Channel; in the north there was none.

SEA

Very little disturbed: at Dungeness it was slight, and at Holyhead moderate.

PROBABLE CHANGES IN SYSTEM NOW PREVALENT

The present distribution of pressure is favourable for rainy weather over England, Ireland, and the northern half of France, but not for much wind.

FORECASTS

For the 24 hours ending at NOON on 6TH MAY 1890.

DISTRICTS.	FORECASTS.	DISTRICTS.	FORECASTS.
0 SCOTLAND NORTH	E ² winds, moderate; cloudy, fair as a whole.	6 SCOTLAND WEST	Same as N ^o 0 and 1
1 SCOTLAND EAST		7 ENGLAND N.W.	Same as N ^o 2
2 ENGLAND N.E.	NE ⁴ winds, moderate or light; some rain.	8 ENGLAND S.W.	Varying winds, moderate, unsettled rainy, thunder locally
3 ENGLAND EAST	NE ³ and E ² winds, light or moderate; dull, rainy.	9 IRELAND NORTH	Same as N ^o 2
4 MIDLAND COUNTIES		10 IRELAND SOUTH	Same as N ^o 8
5 ENGLAND SOUTH			
		WARNINGS	NONE ISSUED.

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

YESTERDAY'S 2 P.M. REPORTS.

	BAR:	THER:		WIND		WEA.	SEA		BAR:	THER:		WIND		WEA.	SEA
		D.	W.	D.	F.					D.	W.	D.	F.		
Skudesnaes ...	29.91	71	55	E	H	C	2	Holyhead ...	29.65	57	52	ESC	1	0	2
Sumburgh Head ...								Valencia ...							
Stornoway ...	29.75	58	55	E	2	6	3	Scilly ...						0	3
Aberdeen ...								Jersey ...	29.51	58	55	E	4	0	2
Shields ...								Dungeness ...	29.61	56	52	ENE	2	6	*
Ardrossan ...								London ...							
Malin Head ...	29.67	53	49	ESE	H	C	2	Yarmouth ...						0	?
Mullaghmore ...								Rocheport ...	29.62	57	55	WSW	5		
Belmullet ...	29.60	52	50	ESE	2	0	*								

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

Weather dull and showery on the west coasts of our Islands and France, and raining over the southern part of Italy. Fine in most other parts of Europe, but hazy at some of the Channel stations, and foggy at Ulick, Roches Point, the Helles and Breslaw. Rain falling later over the Channel and France, heavily at Prawle Point and Lorient.

Temperature highest 60° or a little more at several of the Baltic and Mediterranean stations (Algiers 69°, Biarritz, Oran and Brindisi 63°, at Ulsby, Mornel, Trieste and La Galle 61°). Lowest 29° at Archangel, 42° at Nicopolis, 43° at Ulesboing, 44° at Bodo and Shields, and 45° at Haparanda and the Helles. Subsequently rising a little above 70° over eastern England, the south of Norway and the extreme south of France.

Wind light or moderate from the End or SEnd over the greater part of the United Kingdom, as well as over the eastern shores of the North Sea, the North of France and western Algeria, variable over central and eastern Europe, light from the Nnd in the north of Scandinavia, light to fresh from the NWnd over Italy and Tunis. Subsequently shifting to the Snd in the south of Ireland.

Barometer highest 30.1 ins. and upwards over the south of Russia, 29.9 ins. and upwards over Algeria and the extreme south of Spain. Lowest 29.5 ins. and less in a complex depression lying over the extreme southwest of our Islands, 29.7 ins. and less in another disturbance lying over the southern parts of the Adriatic, 29.8 ins. and less in a small system lying near Malta. Depression off our southwest coast subsequently moving eastwards along the Channel, and barometer rising at some of our western stations.

SUMMARY OF CHANGES IN THE WEATHER OVER THE BRITISH ISLANDS AND THEIR NEIGHBOURHOOD FROM THE 27th APRIL TO THE 3rd MAY 1890.

The weather of last week was generally fine and bright over the eastern, central and southern parts of the Kingdom, where temperature rose gradually to a somewhat high level for the time of year. In the west and north, however, the conditions have been changeable and showery, with heavy rains in some parts of Ireland.

At the commencement of the week pressure was highest to the west and southwest of our Islands, and lowest in a large shallow depression lying over the eastern parts of the North Sea. The wind was therefore light or moderate from the Nnd, and the weather cool & showery.

On the 27th and 28th the depression just mentioned gradually filled up, and an anticyclone appeared over northern Europe, pressure being also relatively high over the Iberian Peninsula. A shallow V^{shaped} disturbance now appeared off our west coast, and the wind became generally SE^{ly}, with rain at some of our western stations, but dull, fair, dry weather elsewhere. At Valencia the rainfall on the 29th amounted to 1.6 ins. The depression ultimately travelled away to the Nnd, but on the 1st May a large shallow area of low readings travelled eastwards across France, and the wind over England and Ireland backed to the End. The weather remained fine, but solar and lunar halos were seen at several of our southern stations.

On the 2nd and 3rd May, two new depressions passed along our extreme west coasts. The first was small and shallow, and produced no material increase of wind even in the west, but the second which was much deeper occasioned moderate to fresh SE gales in Ireland. The progress of each disturbance was accompanied by rain at all our western stations, but in the east and southeast the weather remained fine and bright.

At the beginning of the week temperature was everywhere low, with sharp ground frosts in some of the more central districts. Towards the close of the period, however, the thermometer rose, and maxima exceeding 65° were registered at many of our inland and southern stations.

EXPLANATION OF COLUMNS GIVEN ON PAGE 1.

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

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

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

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

DAILY WEATHER REPORT.

for Tuesday 6th May.

1890.

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

STATIONS.	YESTERDAY EVENING.					8 A.M. TO DAY.										PAST 24 HOURS.		
	Barom : Reading at 32° F. and Sea Level.	Temp. Dry.	Wind.		Weather.	Barometer.		Shade Temp.			Wind.		Sea. (0 to 6.)	Shade Temp.		Amount of Rainfall.		
			Force. (0 to 12.)	Dirac.		Reading at 32° F. and Sea Level.	Difference from 8 a.m. yesterday.	Dry.	Wet.	Difference from 8 a.m. yesterday.	Dirac.	Force. (0 to 12.)		Weather.	Max.		Min.	
Haparanda ...	29.91	40	SSE	2	o	29.80	-0.22	40	39	0	ENE	2	o	*	54	34	—	
Hernösand ...	29.90	47	2	0	o	29.88	-0.06	52	45	-1	2	0	o	*	64	41	—	
Stockholm ...	29.92	52	2	0	o	29.90	-0.06	59	49	0	2	0	o	*	68	50	—	
Wisby ...	29.88	53	ESE	4	o	29.81	-0.08	63	53	+2	E	6	o	*	70	46	—	
Bodö ...	29.96	40	W	2	o	29.93	-0.06	42	39	-1	WNW	2	o	1	45	37	0.12	
Christiansund	29.92	53	NE	3	o	29.90	-0.05	52	48	+2	NE	3	o	2	59	46	—	
Skudesnaes ...	29.86	57	WNW	2	o	29.83	-0.07	60	51	0	E	4	o	3	72	52	—	
Christiania Fjord	29.84	64	2	0	o	29.86	-0.04	53	50	+1	N	3	o	0	64	52	—	
(Fæder)																		
Skagen (The Scaw)	29.81	56	ENE	1	o	29.79	-0.07	53	51	+1	ENE	1	o	1	66	52	—	
Fanö ...	29.75	54	E	2	o	29.72	-0.01	53	54	0	ENE	3	o	*	68	52	—	
Sumburgh Head	29.88	52	NE	2	o	29.80	-0.06	54	51	-2	NE	2	o	3	61	45	—	
Stornoway ...	29.73	54	E	4	o	29.70	-0.09	53	52	-2	SE	4	o	4	59	44	—	
Wick ...	29.71	53	NNE	3	o	29.76	-0.07	52	50	+1	E	2	o	1	57	45	0.02	
Nairn ...	29.72	52	E	3	o	29.71	-0.11	48	46	+1	E	2	o	1	58	45	0.21	
Aberdeen ...	29.75	49	NE	3	o	29.74	-0.04	50	48	-4	ESE	2	o	2	56	47	0.10	
Leith ...	29.68	48	ENE	3	o	29.67	-0.07	47	47	-1	ENE	3	o	*	54	46	0.05	
Shields ...	29.65	47	NE	1	o	29.69	+0.02	50	48	+3	SE	1	o	2	50	45	0.04	
Spurn Head ...	29.60	48	ENE	2	o	29.69	+0.08	49	49	+3	SE	1	o	1	49	44	0.07	
York ...	29.62	51	E	1	o	29.70	+0.07	49	48	-1	E	1	o	*	57	45	0.04	
Loughborough	29.61	53	SE	1	o	29.70	+0.10	50	49	+4	SE	2	o	*	54	37	0.09	
Ardrossan ...	29.64	54	ENE	4	o	29.64	-0.05	50	49	-1	NE	2	o	1	62	48	0.05	
Malin Head ...	29.61	52	NNE	3	o	29.60	-0.06	48	47	-2	ESE	4	o	1	56	48	0.03	
Mallaghmore ...	29.58	53	NE	4	o	29.58	-0.05	49	48	-1	SE	2	o	2	59	49	0.05	
Belmullet ...	29.59	54	ENE	2	o	29.56	-0.06	51	50	-3	SE	1	o	*	60	48	0.02	
Donaghadee ...	29.60	53	SE	3	o	29.64	-0.02	50	49	-3	SW	3	o	1	58	49	0.09	
Liverpool (Bidston)	29.59	50	ESE	2	o	29.66	+0.08	50	48	-1	SE	3	o	3	59	45	0.15	
Holyhead ...	29.57	51	SW	2	o	29.63	+0.06	50	53	+8	2	o	o	0	59	45	0.10	
Parsonstown ...	29.54	58	SE	2	o	29.60	+0.04	53	49	+2	2	o	o	*	63	43	—	
Valencia ...	29.50	55	SE	1	o	29.53	+0.04	52	49	-1	2	o	o	1	63	46	0.16	
Roche's Point...	29.51	50	ESE	5	o	29.53	-0.02	52	49	-2	ESE	4	o	4	56	45	0.20	
Pembroke (St. Ann's Hd.)	29.53	48	SE	2	o	29.58	+0.12	50	49	0	SE	5	o	4	51	45	0.06	
Scilly ...	29.49	52	SE	4	o	29.43	+0.01	51	50	0	SE	5	o	4	53	47	0.09	
Prawle Point ...	29.59	49	SE	3	o	29.53	+0.04	48	48	0	SW	4	o	2	52	47	0.04	
Jersey (St. Aubin's)	29.60	54	SE	4	o	29.62	+0.07	54	51	+1	SE	5	o	3	61	49	—	
Hurst Castle ...	29.63	52	SE	3	o	29.66	+0.11	52	50	+2	ESE	3	o	1	60	48	—	
Dungeness ...	29.63	54	SW	3	o	29.68	+0.14	53	50	+4	SE	2	o	0	56	46	—	
London ...	29.63	58	SE	2	o	29.69	+0.16	53	50	+4	SE	2	o	*	61	43	0.07	
Oxford ...	29.64	51	SW	2	o	29.67	+0.12	54	49	+5	SE	2	o	*	58	40	0.12	
Cambridge ...	29.62	56	SW	1	o	29.71	+0.16	52	50	+1	SEW	1	o	*	59	39	0.07	
Yarmouth ...	29.61	53	SE	3	o	29.71	+0.14	52	50	+4	SE	1	o	2	53	46	—	
Cuxhaven ...	29.67	54	WNW	2	o	29.71	-0.06	49	48	-3	E	3	o	*	59	48	0.08	
Berlin ...	29.64	63	ESE	2	o	29.64	-0.07	53	53	-3	NW	2	o	*	70	54	—	
Wiesbaden ...	*	*	*	*	*	29.78	+0.11	53	50	0	NW	3	o	*	64	48	0.08	
Munich ...	29.77	50	SW	3	o	29.84	+0.17	50	46	-3	W	3	o	*	61	41	—	
The Helder ...	29.73	51	NNW	1	o	29.75	+0.16	51	50	0	WNW	1	o	1	59	48	—	
Brussels (9 a.m.)	*	54	WSE	1	o	29.75	+0.14	53	53	+2	SE	1	o	*	61	48	—	
Cape Gris Nez	*	60	SW	2	o	29.73	+0.05	52	49	+5	SE	1	o	0	63	48	—	
Paris ...	29.69	54	SE	4	o	29.78	+0.01	53	51	+2	SE	6	o	*	64	41	0.12	
Brest ...	29.52	54	SE	3	o	29.58	+0.04	51	49	0	SE	4	o	3	59	46	0.04	
Lorient ...	29.58	54	SE	3	o	29.58	+0.04	51	49	0	SE	4	o	3	75	48	0.04	
Rocheport ...	29.70	60	SE	2	o	29.75	+0.03	53	51	+2	SE	3	o	2	64	43	0.16	
Belfort ...	29.74	62	NW	1	o	29.77	+0.02	53	49	+2	NW	1	o	*	73	41	—	
Lyons ...	29.71	58	ENE	1	o	29.78	+0.01	52	48	+2	SE	2	o	*	66	43	—	
Nice ...	29.77	53	2	0	o	29.83	+0.09	52	50	+1	NE	3	o	1	61	45	0.08	
Perpignan ...	29.70	57	NE	3	o	29.76	-0.01	53	54	0	N	2	o	*	66	48	—	
Barritz ...	29.60	63	ENE	3	o	29.68	+0.01	56	53	-1	2	0	o	2	70	52	—	
Corunna ...	29.79	54	N	4	o	29.77	-0.06	55	51	+1	SEW	4	o	5	59	52	0.08	
Lisbon ...	*	*	*	*	*	29.77	-0.06	55	51	+1	SEW	4	o	5	59	52	0.08	

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

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

WEATHER CHARTS

for 8 a.m. on

Tuesday, 6th May,

1890.

BAROMETER, WIND AND SEA.

EXPLANATION OF MAP.

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

Changes since previous morning are stated in words.

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

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

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

⊙ = dead calm.

SEA DISTURBANCE—Where considerable, is shown thus:

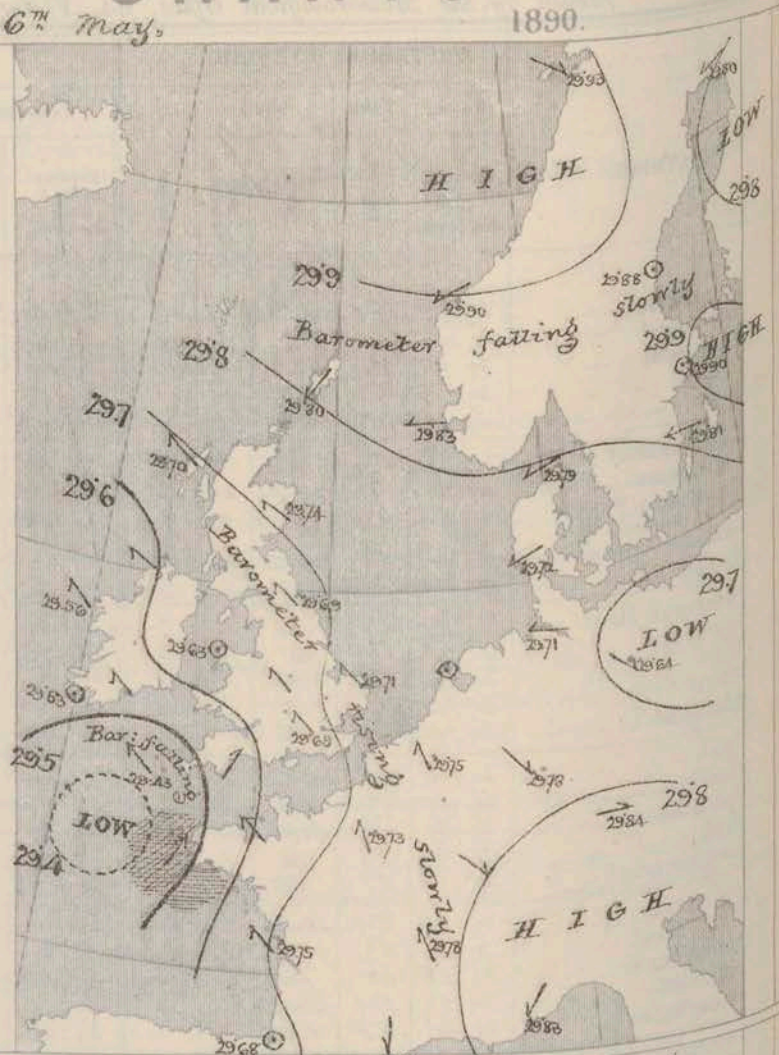
▨ = Rough. ▨ = High.

MEAN HEIGHT OF THE BAROMETER

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

During the 15 Years: 1871—1885.

STATIONS.	MEAN READINGS.
Sumburgh Head	29.378
Stornoway	29.893
Wick	29.900
Nairn	29.918
Aberdeen	29.922
Leith	29.942
Shields	29.955
York	29.974
Loughborough	29.984
Ardrossan	29.949
Donaghadee	29.959
Holyhead	29.971
Liverpool	29.974
Parsonstown	29.976
Valencia	29.984
Roche's Point	29.979
Pembroke	29.977
Scilly	29.997
Jersey	30.002
Hurst Castle	29.994
Dover	29.985
LONDON	29.995
Oxford	29.993
Cambridge	29.989
Yarmouth	29.980



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.

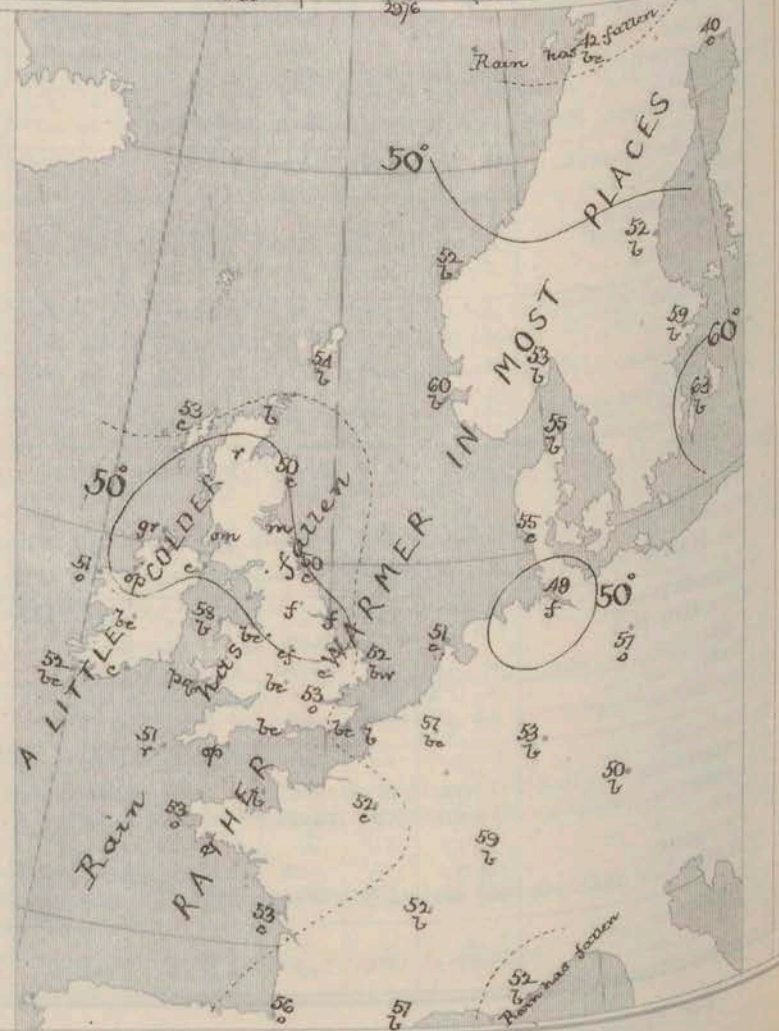
RAINFALL—A dotted line separates the districts in which rain has fallen from those where there has been none. Falls of 0.5 in. or more are quoted in figures.

MEANS OF TEMPERATURE IN SHADE, AND RAINFALL.

(For the month of May.)

STATIONS.	TEMPERATURE.				RAINFALL. (Inches.)
	Daily Max.	Daily Min.	at 8 a.m. Dry.	Wet.	
Sumburgh Head	50.2	39.9	45.9	43.9	1.71
Stornoway	52.9	40.7	48.4	46.0	2.64
Wick	53.7	40.4	47.9	45.2	1.62
Nairn	55.9	42.0	48.4	45.0	1.67
Aberdeen	55.0	41.7	48.9	45.3	1.90
Leith	57.8	42.2	50.1	46.7	1.65
Shields	54.2	43.1	49.1	45.9	1.75
York	59.3	41.6	49.6	46.1	1.71
Loughborough	61.5	42.2	51.2	47.6	1.96
Ardrossan	56.2	43.7	49.3	46.4	2.20
Donaghadee	55.9	43.6	49.5	47.3	2.15
Holyhead	56.0	46.1	50.3	47.8	1.88
Liverpool	57.5	44.7	50.6	46.8	1.74
Parsonstown	59.3	42.3	51.0	47.7	2.23
Valencia	58.1	45.9	52.8	49.5	2.89
Roche's Point	59.6	46.0	51.7	48.7	3.05
Pembroke	55.1	46.0	49.9	47.4	1.97
Scilly	56.3	48.2	52.7	50.3	1.66
Jersey	59.3	47.1	53.5	50.4	1.74
Hurst Castle	58.3	45.3	51.3	49.7	1.70
Dover	56.8	46.8	52.8	49.2	1.77
LONDON	62.1	44.1	52.4	48.1	1.73
Oxford	60.5	43.9	50.6	47.4	1.85
Cambridge	61.7	41.8	51.3	48.1	1.76
Yarmouth	55.4	44.8	50.5	48.0	1.85

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



GENERAL SITUATION AT 8 A.M.

PRESSURE

Highest, 29.8 in. to 29.9 in. over Scandinavia; 29.8 in. and more, over the southeast and south of France.
 Lowest, 29.4 in. and less, in a depression near Sicily; 29.7 in. and less, in another over Germany.
 Gradients moderate over our southernmost districts and Brittany, slight elsewhere.
 Barometer falling in the southwest, changing little and irregularly elsewhere.

TEMPERATURE

Highest, 63° at Nisby, 60° at Skudenass, 59° at Stockholm and Belfast, 57° at Berlin, 54° at Oxford and Lumburg, Had.
 Lowest, 40° at Haparanda, 42° at Åbo, 48° at Mainz and Malin Head.
 It is rather higher over England than at 8 am on Monday, but is changing very irregularly.
 The daily maxima yesterday were 63° at Paris, Valencia and Anvers, 61° in London, and varied 70° in several parts of France.

WIND

Variable from between S. and E. over our Islands and the North Sea, but was more S. in France, while in Western Germany it was W. to N.W.
 In force it was light to moderate generally.

WEATHER

Very variable; clear in some places, cloudy and showery in others, foggy over our northeastern and northern midland counties.
 In the southeast of England the appearance is unsettled, and solar halo are observed locally.

SEA

Rather rough about the mouth of the Channel, slight or smooth elsewhere.

PROBABLE CHANGES IN SYSTEM NOW PREVALENT

The distribution of pressure is still favourable for very showery, unsettled weather, with varying but not strong winds.

FORECASTS

For the 24 hours ending at NOON on 7th May

1890.

DISTRICTS.

FORECASTS.

DISTRICTS.

FORECASTS

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



SE^{ly} and E^{ly} winds, moderate; drizzle, rainy at times.
 SE^{ly} and Varying winds, drizzle, changeable, becoming very rainy.

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

Varying E^{ly} winds; rain at times.
 SE^{ly} and Variable winds; changeable, rainy at times, very unsettled.

WARNINGS

NONE ISSUED.

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

YESTERDAY'S 2 P.M. REPORTS.

THER: WIND								THER: WIND									
BAR:	D.	W.	D.	F.	WEA.	SEA		BAR:	D.	W.	D.	F.	WEA.	SEA			
Skudesnaes ...	29.86	71	54	E	2	C	2	Holyhead ...	29.56	56	52	ENE	4	bc	4		
Sumburgh Head	29.86	53	51	NIE	2	C	3	Valencia ...	29.44	60	57	NE	4	bc	4		
Stornoway ...	29.78	57	55	E	4	C	3	Scilly ...	29.47	53	53	ENE	4	C	3		
Aberdeen ...	29.76	51	49	NE	3	bc	3	Jersey ...	29.60	60	54	SW	3	bc	2		
Shields ...	29.66	48	47	NE	1	odm	2	Dungeness ...	29.62	56	53	SW	3	bc	3		
Ardrossan ...	29.65	62	62	ENE	4	bc	0	London ...	29.55	60	54	SW	3	C	3		
Malin Head ...	29.66	55	52	ENE	1	C	0	Yarmouth ...	29.56	53	51	SE	5	C	2		
Mullaghmore ...	29.60	59	53	ENE	5	C	4	Rochefort ...	29.71	62	55	SW	5	C			
Belmullet ...							*										

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

Weather cloudy or overcast over the greater part of Ireland and England, with rain at many of our southern stations; dull also in Portugal and the eastern parts of Germany and France. Fine and bright at some of our northern stations, as well as over Scandinavia, Russia, and the greater part of Southern Europe. Weather improving later in the south and south-east of England, but showers falling at our western and northern stations. Solar halo at Jersey in evening.

Temperature highest 60° and upwards at several of the Baltic, Mediterranean and Adriatic stations, (La Palme 68°, Trieste 66°, Algiers 65°, Palma 64°, and Brindisi and Palermo 63°). Lowest 36° at Archangel, 40° at Krapivanda, 41° at Uleaborg, 43° at Bodo, 45° at Oxford and Madrid, and 46° at Spin Head and Loughborough. Daily maxima over our Islands lower than on previous day, the highest reading being 63° at Penzance and Valencia and 62° at Ardrossan.

Wind light from the E. over the greater part of the United Kingdom, as well as over Denmark, North Germany, the Baltic, and the south of Scandinavia. Moderate from S. or SW. over the English Channel and Bay of Biscay, and from W. in Portugal; light from SW. or W. over Italy and Central France. Variable over Germany, Austria, and Russia, and also in Algeria. Subsequently shifting to the S. over the greater part of England.

Barometer highest 30.0 in. and upwards over Lapland and Finland, and also over the south of Russia, 29.9 in. and upwards over nearly the whole of Scandinavia and Russia, as well as in the extreme south of Spain. Lowest, 29.5 in. and less, in a depression lying over the south-west of England and the western part of the Channel, and also in two smaller systems lying respectively over the south of Ireland and near the mouth of the Thames. Depressions all moving eastwards later, and barometer rising on our southern coasts.

EXPLANATION OF COLUMNS GIVEN ON PAGE 1.

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

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

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

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

DAILY WEATHER REPORT.

for Wednesday, 7th May, 1890.

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

STATIONS.	YESTERDAY EVENING.					8 A.M. TO DAY.										PAST 24 HOURS.		
	BAROM.	TEMP.	WIND.		Weather.	BAROMETER.		SHADE TEMP.			WIND.		Weather.	Sea. (0 to 9.)	SHADE TEMP.		Amount of Rainfall.	
	Reading at 32° F. and Sea Level.	Dry.	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 ...	29.97	36	NNE	2	b	30.05	+ .25	34	33	- 6	NNE	2	bc	*	48	34	-	
Hernösand ...	29.93	49	Z	0	bc	29.97	+ .04	44	41	- 3	NNE	2	bc	*	66	36	-	
Stockholm ...	29.88	55	Z	0	b	29.86	- .04	54	47	- 7	NNE	4	b	*	68	45	-	
Wibby ...	29.81	58	ESE	6	bc	29.72	- .09	53	50	- 3	ESE	4	r	*	68	46	-	
Bodo ...	30.01	40	NNW	2	b	30.01	+ .08	41	39	- 2	N	2	c	1	43	36	-	
CHRISTIANIA.																		
Christiansund ...	29.88	54	NE	6	b	29.86	- .04	54	49	- 5	NNE	3	b	2	61	48	-	
Skudesnaes ...	29.78	60	Z	0	c	29.78	- .05	57	51	- 6	NNE	1	o	2	64	52	0.04	
Christiania Fjord (Færd)	29.80	62	ESE	2	b	29.81	- .05	55	50	- 5	N	3	b	1	66	?	-	
Skagen (The Scaw)	29.75	53	N	1	o	29.72	- .04	54	52	- 2	E	2	o	2	63	52	0.08	
Fanø ...	29.69	55	WNW	2	r	29.68	- .04	52	52	- 3	NW	4	o	*	64	52	0.04	
SCOTLAND.																		
Sumburgh Head	29.78	53	NE	1	b	29.73	- .04	53	49	- 4	NE	1	c	2	59	46	-	
Stornoway ...	29.64	59	SE	4	o	29.64	- .06	53	52	- 1	E	3	bc	3	59	45	0.01	
Wick ...	29.73	52	E	1	b	29.70	- .03	50	49	- 1	S	2	b	1	58	45	0.12	
Nairn ...	29.66	57	E	1	o	29.67	- .04	51	50	- 1	E	1	bc	1	57	38	-	
Aberdeen ...	29.72	46	ESE	1	oma	29.73	- .01	45	45	- 5	ESE	1	o	2	53	45	0.05	
ENGLAND.																		
Leith ...	29.66	49	ESE	3	o	29.68	+ .01	46	46	- 1	ESE	3	b	*	53	44	0.01	
Shields ...	29.69	50	SE	1	c	29.67	- .02	47	46	- 1	Z	0	om	2	53	44	-	
Spurn Head ...	29.63	50	E	5	c	29.65	- .04	53	50	- 3	Z	0	c	0	56	48	-	
York ...	29.63	60	E	2	c	29.65	- .05	50	48	- 2	E	1	b	*	65	45	-	
Loughborough	29.62	59	SE	2	b	29.65	- .05	55	52	- 3	ESE	2	bcw	*	64	39	0.01	
IRELAND.																		
Ardrossan ...	29.63	53	Z	0	mr	29.63	- .01	52	50	- 2	NE	2	bc	1	58	45	0.08	
Malin Head ...	29.55	52	ESE	4	b	29.56	- .04	49	48	- 1	ESE	4	om	1	53	46	-	
Mullaghmore ...	29.56	54	SE	3	c	29.51	- .07	52	49	- 3	E	4	c	2	60	46	0.02	
Belmullet ...	29.57	49	SW	2	r	29.49	- .07	52	50	- 2	E	2	bc	*	57	45	0.18	
Donaghadee ...	29.60	53	SE	2	b	29.61	- .03	49	48	- 1	ESE	3	o	1	55	48	0.02	
BRITISH ISLANDS.																		
Liverpool (Bidston)	29.58	55	SE	2	c	29.62	- .04	56	49	- 7	SE	2	b	3	62	44	-	
Holyhead ...	29.60	49	W	1	r m	29.59	- .04	53	49	- 4	SE	2	c	2	58	47	0.12	
Parsonstown ...	29.52	51	NE	1	o	29.47	- .13	51	48	- 3	SE	1	o	*	54	47	0.05	
Valencia ...	29.49	50	NNW	1	r m	29.40	- .13	50	48	- 2	Z	0	o	1	58	46	0.23	
Roche's Point...	29.48	51	ESE	5	c	29.43	- .12	49	48	- 1	SSW	4	c	4	56	48	0.45	
EUROPE.																		
Pembroke (St. Ann's Hd.)	29.50	50	SE	4	c	29.52	- .06	49	48	- 1	SE	5	c	4	56	48	0.07	
Sailly ...	29.39	52	S	5	c	29.51	+ .08	50	48	- 2	S	5	c	4	53	46	0.07	
Prawle Point ...	29.56	48	SE	5	c	29.59	+ .06	50	49	- 1	SE	2	b	1	51	46	0.05	
Jersey (St. Aubin's)	29.61	57	S	4	bc	29.62	- .01	54	51	- 3	SE	3	bc	3	59	45	0.17	
Hurst Castle ...	29.62	55	SE	3	bc	29.63	- .03	54	52	- 2	ESE	1	b	0	58	47	-	
FRANCE.																		
Dungeness ...	29.64	53	E	1	bc	29.62	- .06	54	51	- 3	Z	0	bc	0	58	48	0.02	
London ...	29.64	59	S	2	bc	29.64	- .05	54	50	- 4	SE	1	o	*	63	44	-	
Oxford ...	29.64	54	SE	1	c	29.65	- .02	52	49	- 3	SE	1	bc	*	59	39	-	
Cambridge ...	29.64	59	SE	1	bc	29.64	- .07	57	53	- 4	SE	1	o	*	65	44	0.01	
Yarmouth ...	29.67	53	SE	2	bc	29.66	- .05	52	50	- 2	E	1	bc	2	54	48	-	
GERMANY.																		
Cuxhaven ...	29.71	50	WNW	2	b	29.71	- .01	50	49	- 1	W	2	b	*	54	49	-	
Berlin ...	29.68	60	WNW	3	b	29.73	+ .04	55	53	- 2	NNW	3	o	*	68	52	-	
Wiesbaden ...	*	*	*	*	*	29.71	- .07	55	52	- 3	Z	0	b	*	64	45	-	
Munich ...	29.80	52	NE	2	b	29.75	- .04	51	48	- 3	NE	3	b	*	63	39	-	
The Helder ...	29.74	53	NE	1	b	29.70	- .05	56	53	- 3	E	1	b	2	57	50	-	
NETHERLANDS.																		
Brussels (9 a.m.)	*	*	*	*	*	29.63	- .12	63	56	- 7	SE	1	b	*	72	50	-	
Cape Gris Nez	?	59	E	1	c	?	?	54	51	- 3	SE	1	c	0	63	52	0.04	
Paris ...	29.68	57	NNW	2	o	29.65	- .08	53	51	- 2	W	2	o	*	73	49	0.04	
Brest ...	29.57	53	SW	4	bc	29.55	+ .07	53	51	- 2	S	3	o	4	63	46	0.04	
Lorient ...	29.63	54	SW	4	bc	29.58	- .05	51	50	- 1	SE	2	o	3	57	48	-	
SPAIN.																		
Rochefort ...	29.75	57	NW	3	c	29.68	- .07	52	51	- 1	ESE	3	o	?	64	45	-	
Belfort ...	29.76	62	W	1	o	29.67	- .10	61	51	- 10	SE	1	o	*	73	44	-	
Lyons ...	29.65	63	S	3	b	29.68	- .10	51	50	- 1	ESE	1	c	*	70	47	-	
Nice ...	29.76	55	SE	4	o	29.63	- .13	56	50	- 6	E	2	c	2	63	?	-	
Perpignan ...	29.66	58	S	2	o	29.62	- .06	56	49	- 7	S	2	o	2	64	52	0.08	
Biarritz ...	29.80	55	NNW	4	b	29.79	+ .02	55	53	- 2	WSW	3	c	7	59	52	0.12	

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

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

WEATHER CHARTS

for 8 a.m. on

Wednesday, 7th May,

1890.

BAROMETER, WIND AND SEA.

EXPLANATION OF MAP.

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

Changes since previous morning are stated in words.

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

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

↗ = forces 5 to 7; ↘ = forces 1 to 4.

— = dead calm.

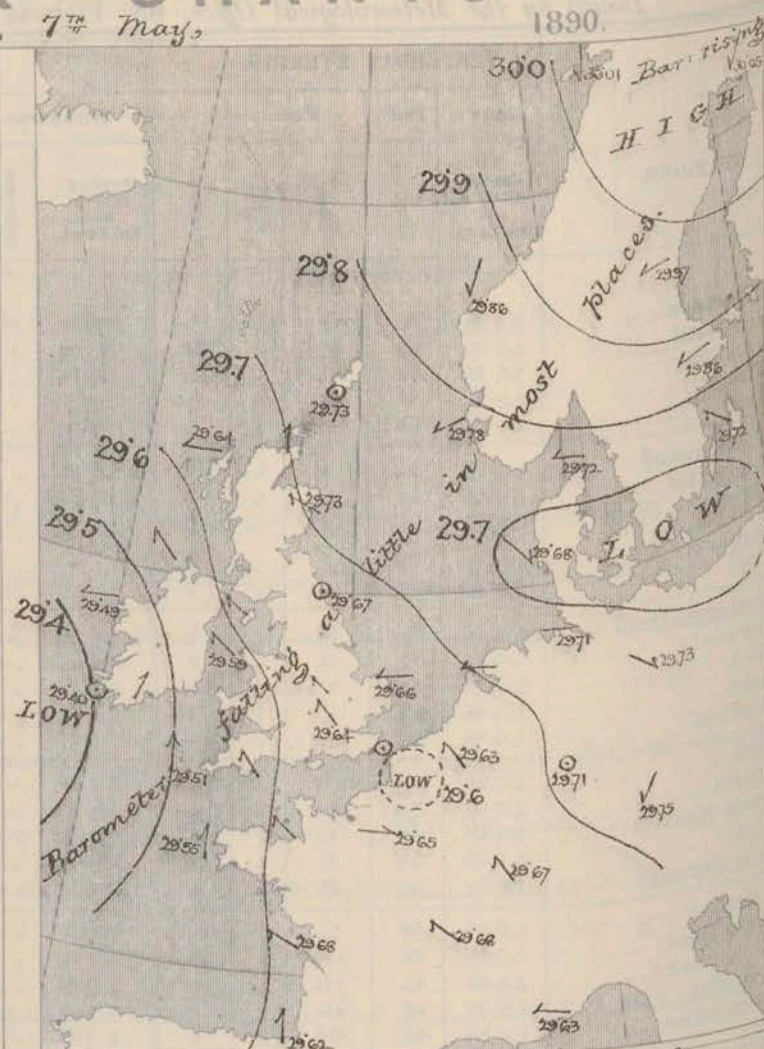
SEA DISTURBANCE—Where considerable, is shown thus:

▨ = Rough. ▩ = High.

MEAN HEIGHT OF THE BAROMETER

at 8.0 a.m. for the month of May.
During the 15 Years; 1871—1885.

STATIONS.	MEAN READINGS.
	in.
Sumburgh Head	29.878
Stornoway	29.893
Wick	29.906
Nairn	29.918
Aberdeen	29.922
Leith	29.942
Shields	29.955
York	29.974
Loughborough	29.984
Ardrossan	29.949
Donaghadee	29.959
Holyhead	29.971
Liverpool	29.974
Parsonstown	29.976
Valencia	29.984
Roche's Point	29.979
Pembroke	29.977
Seilly	29.987
Jersey	30.002
Hurst Castle	29.994
Dover	29.985
LONDON	29.995
Oxford	29.993
Cambridge	29.989
Yarmouth	29.980



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.

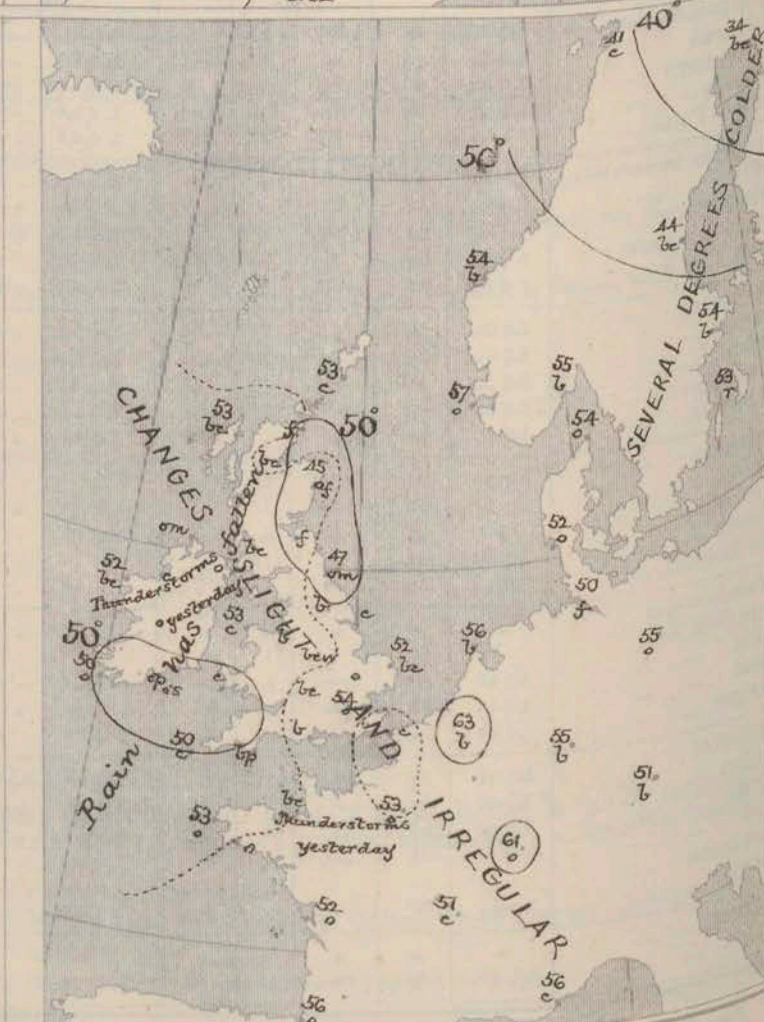
RAINFALL—A dotted line separates the districts in which rain has fallen from those where there has been none. Falls of 0.5 in. or more are quoted in figures.

MEANS OF TEMPERATURE IN SHADE, AND RAINFALL.

(For the month of May.)

STATIONS.	TEMPERATURE.				RAINFALL. (Inches.)
	Daily Max.	Daily Min.	at 8 a.m.		
			Dry.	Wet.	
Sumburgh Head.....	50.2	39.9	45.9	43.9	1.71
Stornoway	52.0	40.7	48.4	46.0	2.64
Wick	53.7	40.4	47.9	45.2	1.62
Nairn	55.9	42.0	48.4	45.0	1.67
Aberdeen	55.0	41.7	48.9	45.3	1.90
Leith	57.8	42.2	50.1	46.7	1.65
Shields	54.2	43.1	49.1	45.9	1.75
York	50.3	41.6	49.6	46.4	1.71
Loughborough	51.5	42.2	51.2	47.6	1.96
Ardrossan	56.2	43.7	49.3	46.4	2.20
Donaghadee	55.0	43.0	49.6	47.3	2.15
Holyhead	56.0	46.1	50.3	47.8	1.88
Liverpool	57.5	44.7	50.6	46.8	1.74
Parsonstown	59.3	42.3	51.0	47.7	2.23
Valencia	58.1	45.9	52.8	49.5	2.89
Roche's Point	59.6	46.0	51.7	48.7	3.65
Pembroke	55.1	46.0	49.9	47.4	1.97
Seilly	56.3	48.2	52.7	50.3	1.66
Jersey	59.3	47.1	53.5	50.4	1.74
Hurst Castle	58.3	45.8	51.3	49.7	1.70
Dover	56.8	48.8	52.8	49.2	1.77
LONDON	62.1	44.1	52.4	48.4	1.73
Oxford	60.5	43.9	50.6	47.4	1.83
Cambridge	61.7	41.8	51.3	48.1	1.76
Yarmouth	55.4	44.8	50.5	48.0	1.85

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, 29.6 in. to 30.0 in. over Scandinavia, 29.7 in. to 29.8 in. and more over the Spanish Peninsula.
Lowest, 29.4 in. and less, off the west of Ireland, about 29.5 in. in a shallow depression near Boulogne, and 29.7 in. in another lying over the southern part of the Baltic.
Gradients are slight — mainly favourable for S.E. winds, but very variable over the southern and southeastern districts.
Barometer inclined to fall in most places, but very slightly.

TEMPERATURE

Highest, 63° at Brussels, 61° at Belfast, 57° at Cambridge, 56° at Birmmgham and Liverpool, 55° at Berlin and Wiesbaden, 54° in London, 53° at Paris.
Lowest, 34° at Haparanda, 41° at Oslo, 44° at Rensselaers, 45° at Aberdeen, 47° at Shields, 48° at Malin Head.
 It has fallen decidedly over Sweden since yesterday, but changed little and irregularly elsewhere.

WIND

S to SE over our islands, very variable over the North Sea and at the Continental stations.
 In force it is moderate at our western and southwestern stations, light elsewhere.

WEATHER

Clear in most districts but not settled; cloudy in some localities, foggy off our northeast coasts.
 Rainfall during yesterday was slight and occurred more generally in the west and southwest than elsewhere. Solar halo even very prevalent over England yesterday, thunderstorms in several places.

SEA

Moderate on our southwest coasts, smooth or slight elsewhere.

PROBABLE CHANGES IN SYSTEM NOW PREVALENT

There is no indication of any important change.

FORECASTS

For the 24 hours ending at NOON on 8TH May 1890.

DISTRICTS.

FORECASTS.

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

SE^{ly} and E^{ly} winds, light or moderate; misty, some rain.

Varying SE^{ly} airs and calms; changeable, some rain, possibly thunder.

DISTRICTS.



FORECASTS

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

SE^{ly} winds, light; changeable, rain at times, bright intervals.

WARNINGS

NONE ISSUED.

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

YESTERDAY'S 2 P.M. REPORTS.

	BAR:	THER:		WIND		WEA.	SEA		BAR:	THER:		WIND		WEA.	SEA
		D.	W.	D.	F.					D.	W.	D.	F.		
Skudesnaes ...	29.82	64	54	E	2	c	2		Holyhead ...	29.62	54	50	EHE	1	2
Sumburgh Head	29.80	58	51	72	0	b	2		Valencia ...	29.51	55	52	M	2	1
Stornoway ...	29.66	54	54	NE	4	c	4		Scilly ...	29.37	52	51	ESE	6	3
Aberdeen ...	29.73	49	48	E	1	om	2		Jersey ...	29.62	54	50	SSE	3	1
Shields ...	29.69	51	49	E	2	om	2		Dungeness ...	29.66	56	52	ESE	2	2
Ardrossan ...	29.64	57	55	72	0	0	0		London ...	29.66	60	55	SE	3	2
Malin Head ...	29.60	50	48	ESE	3	0	0		Yarmouth ...	29.71	54	52	SSE	2	2
Mullaghmore ...	29.57	59	50	E	2	cv	2		Rochefort ...	29.76	64	57	WNW	3	
Belmullet ...	29.57	57	52	W	2	0	*								

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

Weather fine over the greater part of Western and Northern Europe as well as over the Adriatic, but showery in the north of Ireland and the southwest of England. Dull in Germany, Austria, and the south of Russia, as well as in Spain and Algeria, with rain at Neufahrwasser, Prague, and Hermannstadt. Thunder and lightning occurring in evening in many parts of our Islands and France, and heavy rain falling at Rocher Point.

Temperature highest, 74° at La Felle, 68° at Constantinople, and 66° at Palermo, Malta and Sfax; 60° and upwards at most of the Mediterranean stations, as well as over the Baltic and the southern part of Central Russia. Lowest 33° at Archangel, 40° at Vapovanda, 42° at Bala, 43° at Ulsborg, 47° at Leith, 48° at St. Petersburg, Kain and Malin Head. Subsequently rising to between 60° and 65° over the eastern and central parts of England and to 70° or more over Belgium and Central France.

Wind SE⁴ over the greater part of our Islands and France; light or moderate in force generally, but fresh at the mouths of the British and English Channels. E⁴ over Denmark and the Baltic, NW⁴ or W⁴ in Germany; light from the SEnd in Russia; calm or variable in Scandinavia and Finland. S⁴ or SW⁴ in Spain and Algeria. Subsequently becoming variable in France.

Barometer highest 30.0 ins. and upwards, in a large anticyclone lying over Russia. Lowest, 29.4 ins. and less, in a small depression lying to the southwestward of our Islands; 29.7 ins. and less, in a large shallow area over Eastern Germany and Austria, as well as in a smaller system near La Felle. Very small and shallow disturbances appearing later over the northeast 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 *Thursday, 8th May, 1890.*
Issued by the Meteorological Office, 63, Victoria Street, London. R. H. SCOTT, Secretary.

STATIONS.	YESTERDAY EVENING.					8 A.M. TO DAY.										PAST 24 HOURS.		
	BAROM.	TEMP.	WIND.		Weather.	BAROMETER.		SHADE TEMP.			WIND.		Sea. (0 to 6.)	SHADE TEMP.		Amount of Rainfall.		
	Reading at 32° F. and Sea Level.	Dry.	Dirac.	Force. (0 to 12.)		Reading at 32° F. and Sea Level.	Difference from 8 a.m. yesterday.	Dry.	Wet.	Difference from 8 a.m. yesterday.	Dirac.	Force. (0 to 12.)		Max.	Min.			
SCANDINAVIA.																		
Haparanda ...	30.04	36	Z	0	b	30.15	+1.10	38	36	+4	NW	2	b	*	45	28	-	
Hernösand ...	30.05	39	ENE	6	c	30.11	+1.14	40	37	-4	NE	2	o	*	50	37	-	
Stockholm ...	29.85	51	E	4	c	29.88	+0.02	52	45	-2	ENE	4	c	*	61	41	-	
Wisby ...	29.72	53	E	4	o	29.73	+0.01	50	48	-3	E	6	c	*	64	50	0.43	
Bodö ...	30.02	43	ENE	1	b	29.98	-0.03	45	41	+4	ENE	4	b	2	45	37	-	
CHRISTIANIA.																		
Christiansund ...	29.83	51	NE	6	b	29.80	-0.06	53	50	-1	ENE	2	b	2	59	46	-	
Skudesnaes ...	29.81	52	SW	1	r	29.74	-0.04	59	50	+2	NNE	1	o	3	68	52	0.04	
Christiania Fjord (Færdar) ...	29.74	59	NNE	3	c	29.80	-0.01	52	48	-3	ESE	5	o	2	63	52	0.04	
Skagen (The Scaw) ...	29.63	55	E	3	o	29.69	-0.03	50	49	-4	E	3	o	4	55	48	0.08	
Panö ...	29.61	49	NW	2	b	29.64	-0.04	49	49	-3	S	2	o	*	59	48	0.04	
SCOTLAND.																		
Sumburgh Head ...	29.75	51	ESE	1	o	29.82	+0.09	49	49	-4	Z	0	r	1	58	46	0.01	
Stornoway ...	29.69	54	E	4	bc	29.76	+0.12	47	47	-6	E	2	om	3	59	40	-	
Wick ...	29.73	48	E	2	f	29.81	+0.11	48	48	-2	E	2	om	1	52	43	0.01	
Nairn ...	29.69	52	E	1	o	29.79	+0.12	45	45	-6	E	1	om	1	54	44	0.01	
Aberdeen ...	29.76	44	ESE	1	of	29.80	+0.07	46	46	+1	NW	1	om	1	49	42	0.02	
ENGLAND.																		
Leith ...	29.70	45	ENE	2	o	29.77	+0.09	44	44	-2	ENE	3	r	*	49	43	0.14	
Shields ...	29.68	50	NE	1	r	29.74	+0.07	45	45	-2	NE	1	om	2	55	43	0.40	
Spurn Head ...	29.65	49	NNE	2	o	29.68	+0.03	45	45	-8	NE	4	o	3	56	45	0.42	
York ...	29.66	52	ESE	1	r	29.70	+0.05	48	47	-2	NE	1	o	*	65	45	0.18	
Loughborough ...	29.64	55	ENE	2	c	29.66	+0.01	50	48	-5	NE	2	ogm	*	65	44	-	
IRELAND.																		
Ardrossan ...	29.64	58	NE	3	omplv	29.72	+0.09	49	48	-3	NE	3	om	2	61	45	0.32	
Malin Head ...	29.58	49	E	3	b	29.71	+0.15	49	49	0	E	2	om	0	54	47	0.02	
Mullaghmore ...	29.56	54	ESE	5	cp	29.70	+0.19	50	48	-2	ENE	3	c	2	56	44	0.02	
Belmullet ...	29.54	52	ESE	5	op	29.71	+0.22	53	50	+1	ENE	2	b	*	55	47	0.10	
Donaghadee ...	29.63	57	E	2	bc	29.71	+0.10	51	50	+2	NE	2	m	0	58	46	0.12	
Wales.																		
Liverpool (Bidston) ...	29.63	54	WNW	1	o	29.68	+0.06	51	48	-5	E	1	m	1	63	44	-	
Holyhead ...	29.63	53	SW	1	mgt	29.67	+0.08	55	51	+2	E	3	bm	2	61	46	0.10	
Parsonstown ...	29.55	53	SE	2	c	29.66	+0.19	50	47	-1	NE	1	bc	*	57	44	0.10	
Valencia ...	29.47	53	ESE	4	c	29.60	+0.20	54	50	+4	E	4	bc	4	56	47	0.26	
Roche's Point ...	29.52	51	SSE	4	c	29.61	+0.18	53	48	+4	E	5	bc	4	55	48	0.15	
France.																		
Pembroke (St. Ann's Hd.) ...	29.58	52	NE	2	bc	29.62	+0.10	53	51	+4	E	2	b	2	53	45	0.05	
Scilly ...	29.50	51	E	4	c	29.53	+0.02	51	51	+1	E	4	o	3	53	48	0.16	
Prawle Point ...	29.59	50	E	2	b	29.61	+0.02	54	51	+4	ENE	4	b	3	54	46	-	
Jersey (St. Aubin's) ...	29.56	58	NNW	2	b	29.59	-0.03	57	53	+3	E	1	bcm	3	63	48	-	
Hurst Castle ...	29.61	55	SW	2	bc	29.61	-0.02	51	50	-3	NE	1	m	0	59	44	-	
Germany.																		
Dungeness ...	29.58	56	Z	0	b	29.56	-0.06	51	50	-3	N	2	r	1	56	46	0.24	
London ...	29.61	59	ESE	1	cm	29.61	-0.03	50	49	-4	NNE	2	ogm	*	61	43	0.02	
Oxford ...	29.61	51	NE	2	bc	29.64	-0.01	46	46	-6	NE	2	o	*	62	44	0.14	
Cambridge ...	29.62	55	E	1	b	29.62	-0.02	51	50	-6	NE	1	o	*	64	45	0.03	
Yarmouth ...	29.61	54	N	3	c	29.63	-0.03	47	46	-5	ENE	4	bc	4	58	45	0.02	
Netherlands.																		
Cuxhaven ...	29.68	48	NNW	2	b	29.66	-0.05	50	50	0	NE	2	o	*	54	48	-	
Berlin ...	29.66	62	Z	0	b	29.60	-0.13	64	58	+9	E	3	b	*	66	54	-	
Wiesbaden ...	*	*	*	*	*	29.47	-0.24	62	55	+7	NE	2	b	*	72	52	-	
Munich ...	29.57	55	E	3	b	29.40	-0.35	54	51	+3	NE	5	c	*	66	45	-	
The Helder ...	29.65	54	ENE	2	b	29.63	-0.07	48	46	-8	ENE	2	c	3	50	46	-	
Belgium.																		
Brussels (9 a.m.) ...	*	*	*	*	*	29.55	-0.08	55	52	-8	E	2	bc	*	72	52	0.04	
Cape Gris Nez ...	?	?	E	3	c	?	?	49	48	-5	W	3	r	2	57	48	2.95	
Paris ...	29.59	60	NE	2	bc	29.56	-0.09	52	50	-1	NNW	2	o	*	62	47	-	
Brest ...	29.54	54	S	3	o	29.56	+0.01	53	51	0	SSE	1	c	3	61	43	0.04	
Lorient ...	29.58	54	SSE	2	bc	29.58	-0.00	51	50	0	E	1	m	3	59	48	-	
Spain.																		
Rocheport ...	29.67	57	NNW	4	b	29.66	-0.02	51	50	-1	E	2	b	?	66	43	-	
Belfort ...	29.55	60	NW	1	o	29.43	-0.24	54	45	-7	W	1	o	*	67	49	-	
Lyons ...	29.57	58	NNW	3	c	29.53	-0.15	50	50	-1	NW	3	r	*	69	47	0.04	
Nice ...	29.52	53	NNE	4	r	29.39	-0.24	52	49	-4	E	3	bc	1	68	48	0.47	
Perpignan ...	29.62	54	Z	0	b	29.60	-0.02	58	51	-1	W	2	b	*	65	45	0.20	
Biarritz ...	29.62	61	NNE	3	b	29.55	-0.07	55	50	-1	SSE	3	b	1	68	48	0.04	
Portugal.																		
Corunna ...	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	
Lisbon ...	29.71	55	SSW	5	o	29.58	-0.21	53	50	-2	WSW	6	o	8	59	?	0.55	

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

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

WEATHER CHARTS

for 8 a.m. on

Thursday, 8th May,

1890.

BAROMETER, WIND AND SEA.

EXPLANATION OF MAP.

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

Changes since previous morning are stated in words.

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

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

SEA DISTURBANCE—Where considerable, is shown thus:

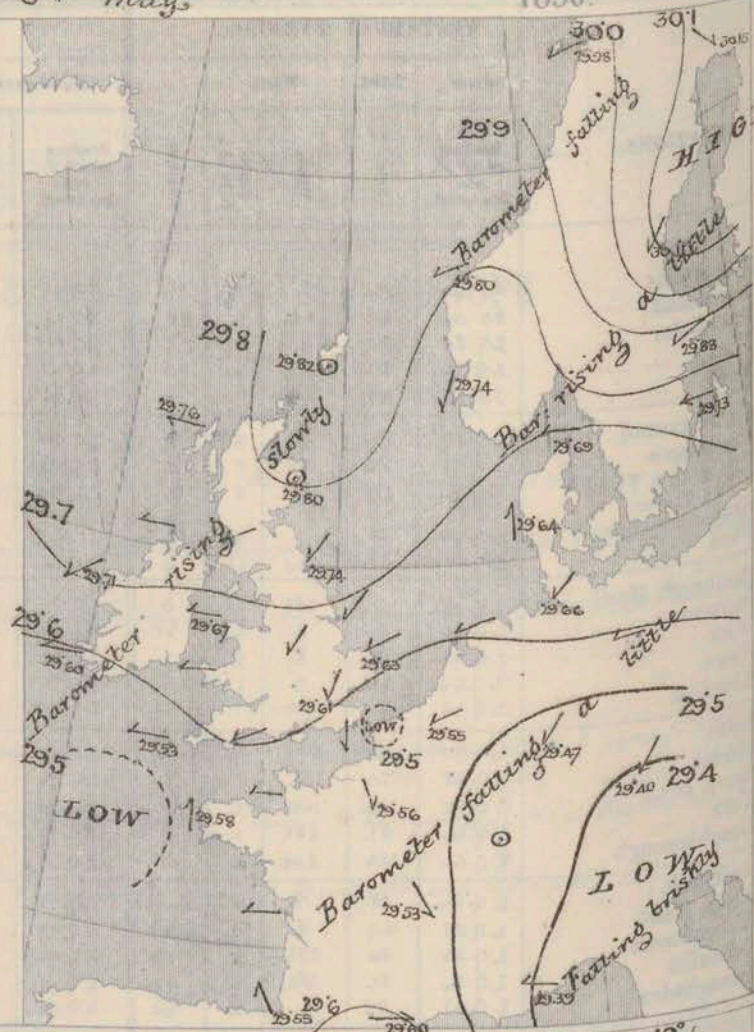
▨ = Rough. ▨ = High.

MEAN HEIGHT OF THE BAROMETER

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

During the 15 Years: 1871—1885.

STATIONS.	MEAN READINGS.
Sumburgh Head	29.878
Stornoway	29.893
Wick	29.906
Nairn	29.918
Aberdeen	29.922
Leith	29.942
Shields	29.955
York	29.974
Loughborough	29.984
Ardrossan	29.949
Donaghadee	29.959
Holyhead	29.971
Liverpool	29.974
Parsonstown	29.976
Valencia	29.984
Roche's Point	29.979
Pembroke	29.977
Scilly	29.997
Jersey	30.002
Hurst Castle	29.994
Dover	29.985
LONDON	29.995
Oxford	29.993
Cambridge	29.989
Yarmouth	29.980



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.

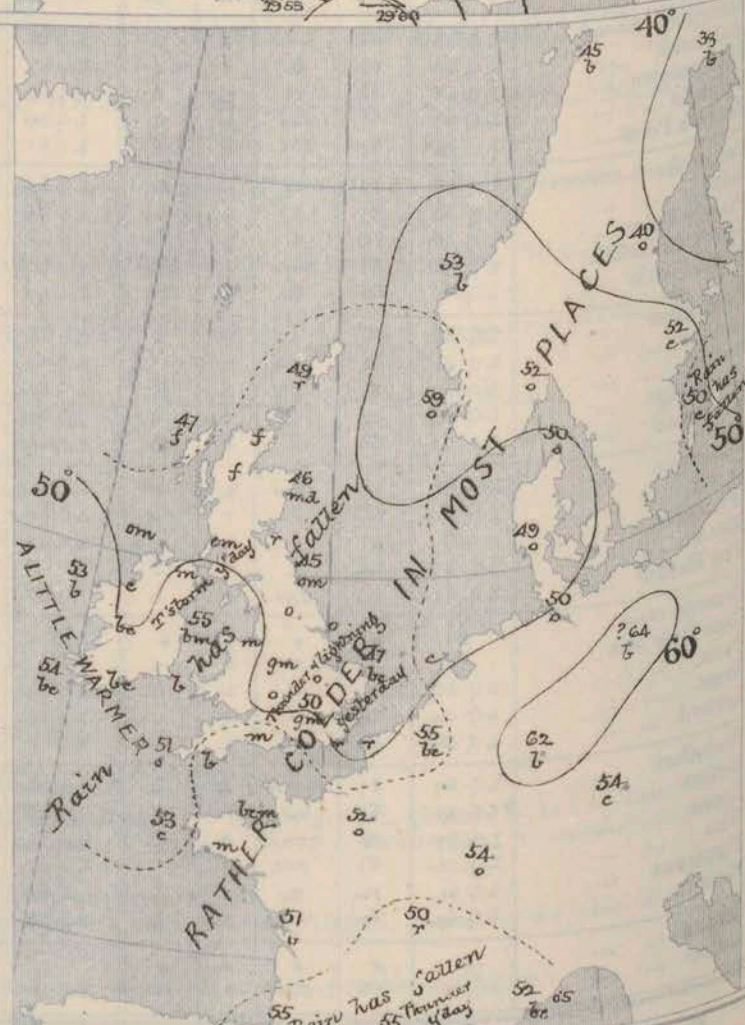
WEATHER is shown by Letters of the Beaufort Scale.

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 May.)

STATIONS.	TEMPERATURE.				RAINFALL (Inches.)
	Daily Max.	Daily Min.	at 8 a.m.		
			Dry.	Wet.	
Sumburgh Head.....	50.2	39.9	45.9	43.9	1.71
Stornoway.....	52.9	40.7	48.4	46.0	2.64
Wick.....	53.7	40.4	47.9	45.2	1.62
Nairn.....	55.9	42.0	48.4	45.0	1.67
Aberdeen.....	55.0	41.7	48.9	45.3	1.90
Leith.....	57.8	42.2	50.1	46.7	1.65
Shields.....	54.2	43.1	49.1	45.9	1.75
York.....	59.3	41.6	49.6	46.4	1.71
Loughborough.....	61.6	42.2	51.2	47.6	1.96
Ardrossan.....	56.2	43.7	49.3	46.1	2.20
Donaghadee.....	55.9	43.6	49.5	47.3	2.15
Holyhead.....	56.0	46.1	50.3	47.8	1.88
Liverpool.....	57.5	44.7	50.6	46.8	1.74
Parsonstown.....	59.3	42.3	51.0	47.7	2.23
Valencia.....	58.1	45.9	52.8	49.5	2.89
Roche's Point.....	59.6	46.0	51.7	48.7	3.05
Pembroke.....	55.1	46.0	49.9	47.4	1.97
Scilly.....	56.3	48.2	52.7	50.3	1.66
Jersey.....	59.3	47.1	53.5	50.4	1.74
Hurst Castle.....	58.3	45.3	51.3	49.7	1.70
Dover.....	56.8	46.8	52.8	49.2	1.77
LONDON.....	62.1	44.1	52.4	48.4	1.73
Oxford.....	60.5	43.9	50.6	47.4	1.83
Cambridge.....	61.7	41.8	51.3	48.1	1.76
Yarmouth.....	55.4	44.8	50.5	48.0	1.85

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



GENERAL SITUATION AT 8 A.M.

PRESSURE

Highest, 29.8 in: to 30.1 in: and more over the northeastern half of Scandinavia, and 29.8 in: and more, over the northeast of Scotland.
 Lowest, 29.4 in: and less, over the southeast of France, and 29.5 in: and less, off our extreme southwestern coast.
 Gradients slight generally, and very irregular in the south and east.
 Barometer rising slowly in the east and north, unsteady elsewhere.

TEMPERATURE

Highest, 62° at Mirabaden, 58° at Perpignan, 57° at Jersey, 55° at Holyhead, 54° at Valencia, 52° at Stockholm.
 Lowest, 38° at Naparanda, 44° at Leith, 45° on our northeast coast and at Nain, 46° at Oxford, 47° at Yarmouth.
 In London it is 50°, at Paris 52°, and is falling in the east and southeast generally.

WIND

Light to moderate from the NE^{ad} over the greater part of our Island.
 Light and very variable elsewhere.

WEATHER

Fine and bright over Germany, and also at our western stations, cloudy or overcast elsewhere, with rain at several of our southeastern stations, and fog or mist in the northeast.
 Thunder and lightning prevailed in many parts of England yesterday, and rain fell in most places rather heavily in the northeast.

SEA

Moderate on our southwestern coast, slight or smooth elsewhere.

PROBABLE CHANGES IN SYSTEM NOW PREVALENT

A good deal of rain is likely to fall over the eastern and southern parts of our area.

FORECASTS

For the 24 hours ending at NOON on 9th May

1890.

DISTRICTS.

FORECASTS.

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

Varying light winds; changeable, rainy, cold.

NE^{ly} and N^{ly} winds; rainy, dull, becoming colder.

DISTRICTS.

FORECASTS

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

NE^{ly} winds, moderate; some showers, colder.

NE^{ly} winds, moderate; fair generally.

WARNINGS

NONE ISSUED.

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

YESTERDAY'S 2 P.M. REPORTS.

	BAR:	THER:		WIND		WEA.	SEA		BAR:	THER:		WIND		WEA.	SEA
		D.	W.	D.	F.					D.	W.	D.	F.		
Skudesnaes ...	29.76	68	55	ESE	1	c	2		Holyhead ...	29.61	56	51	E	1	mpg
Sumburgh Head	29.74	54	51	W	0	c	2		Valencia ...	29.44	55	52	SW	2	ep
Stornoway ...	29.66	59	58	E	3	b	3		Scilly ...	29.51	52	51	SE	1	op
Aberdeen ...	29.74	48	47	SE	2	om	1		Jersey ...	29.60	59	53	ESE	3	bc
Shields ...	29.68	54	51	NE	2	c	2		Dungeness ...	29.61	53	52	WSW	1	c
Ardrossan ...	29.63	60	54	W	0	b	0		London ...	29.62	55	53	SE	2	op
Malin Head ...	29.58	51	49	E	4	o	1		Yarmouth ...	29.62	55	52	NE	2	ep
Mullaghmore ...	29.53	56	48	SE	6	ep	4		Rochefort ...	29.64	65	58	SW	4	b
Belmullet ...	29.51	55	50	SE	5	o	*								

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

Weather fair over the greater part of our Islands, and also over Scandinavia, Finland, the Netherlands, western and southern Germany, Algeria and the south of Italy, but showery at some of our southwestern stations, and foggy in the east of Scotland. Dull elsewhere, with rain at Nisby and Copenhagen as well as Cassena and Nemours, and snow at Archangel. Thunder and lightning occurring during day in many parts of the United Kingdom and France.

Temperature highest 60° to 70° over the Mediterranean and the Adriatic, as well as in Turkey (Constantinople 71°, Naples 70°, Malta 69°), Genoa, Cagliari, and Algiers 64° and Brindisi 63°.) Lowest 30° at Archangel, 41° at Rode, 44° at Nemours, 45° at Aberdeen, and 46° at Leith and Madrid. Thermometer rising during day to between 60° and 65° over central England and also in the south of Scandinavia, but exceeding the latter point in many parts of France.

Wind light or moderate from the SE^{wd} over the greater part of our Islands and France, and from the End or NEnd over Scandinavia and Finland. SW⁴ over the Iberian Peninsula; chiefly W⁴ over Central Europe. SE⁴ over the Adriatic; NE⁴ over the more eastern parts of Italy; variable in Algeria. Subsequently becoming variable in the south of England.

Barometer highest, 30.0 ins: and upwards, in an anticyclone lying over the more northern parts of Scandinavia and Finland, 29.9 ins: and upwards, over Turkey and Asia Minor and also over Morocco. Lowest 29.4 ins: and less, in a depression lying to the southward of Ireland, and also in a shallow irregularly formed area extending southwards from Denmark to the extreme south-east of Russia. Small and very shallow disturbance lying over the northeast of France nearly all day.

EXPLANATION OF COLUMNS GIVEN ON PAGE 1.

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

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

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

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

DAILY WEATHER REPORT.

for *Friday, 9th May,* 1890.
 Issued by the Meteorological Office, 63, Victoria Street, London. R. H. SCOTT, Secretary.

STATIONS.	YESTERDAY EVENING.					8 A.M. TO DAY.										PAST 24 HOURS.		
	BAROM.	TEMP.	WIND.		Weather.	BAROMETER.		SHADE TEMP.			WIND.		Weather.	Sea. (0 to 5.)	SHADE TEMP.		Amount of Rainfall.	
	Reading at 32° F. and Sea Level.	Dry.	Dir.	Force. (0 to 12.)		Reading at 32° F. and Sea Level.	Difference from 8 a.m. yesterday.	Dry.	Wet.	Difference from 8 a.m. yesterday.	Dir.	Force. (0 to 12.)			Max.	Min.		
SCANDINAVIA.																		
Haparanda ...	30.10	27	Z	0	bc	30.18	+ .03	39	37	+ 1	Z	0	c	*	43	25	-	
Hernösand ...	30.09	40	E NE	2	c	30.07	- .04	40	36	0	E NE	2	c	*	52	36	-	
Stockholm ...	29.95	43	E NE	2	b	29.99	+ .11	42	41	- 4	NE	4	b	*	55	39	-	
Wisby ...	29.82	45	E	4	bc	29.86	+ .13	46	41	- 4	E	6	b	*	54	43	-	
Bodö ...	29.93	46	E NE	2	b	29.91	- .07	48	40	+ 3	E NE	4	b	2	50	39	-	
CHRISTIANIA.																		
Christiansund	29.82	54	N NE	2	c	29.84	+ .04	55	51	+ 2	SSW	2	c	1	64	52	-	
Skudesnaes ...	29.79	53	Z	0	0	29.84	+ .10	53	48	- 6	ESE	2	0	4	59	52	-	
Christiania Fjord (Fæder)	29.85	54	ESE	5	b	29.96	+ .16	47	43	- 5	N	3	b	2	55	?	-	
Skagen (The Scaw)	29.81	52	SE	2	0	29.87	+ .18	50	43	0	ESE	4	b	3	54	45	-	
Fanö ...	29.67	54	E NE	4	b	29.77	+ .13	49	48	0	E NE	4	c	*	59	48	-	
SCOTLAND.																		
Sumburgh Head	29.84	54	Z	0	0	29.81	- .01	49	48	0	Z	0	0	0	55	45	0.01	
Stornoway ...	29.78	54	E	4	b	29.78	+ .02	53	52	+ 6	SE	3	b	3	55	45	-	
Wick ...	29.82	50	N	1	bc	29.82	+ .01	50	49	+ 2	E	1	0	1	53	43	0.02	
Nairn ...	29.80	51	E	1	0	29.81	+ .02	49	48	+ 4	E	1	0	1	52	44	-	
Aberdeen ...	29.80	49	N NE	2	c	29.78	- .02	49	48	+ 3	N	2	0	3	52	46	0.01	
ENGLAND.																		
Leith ...	29.78	49	ESE	1	b	29.77	- .00	48	48	+ 4	E NE	1	0	*	52	44	0.01	
Shields ...	29.76	48	N NE	2	om	29.72	- .02	47	47	+ 2	N NE	2	0	2	52	44	-	
Spurn Head ...	29.72	48	N NE	4	0	29.65	- .03	48	47	+ 3	NE	4	0	2	48	45	0.02	
York ...	29.73	56	NE	1	bc	29.67	- .03	50	48	+ 2	NE	1	0	*	61	46	-	
Loughborough	29.71	51	NE	3	0	29.67	+ .01	49	48	- 1	N NE	2	0	*	57	47	0.01	
IRELAND.																		
Ardrossan ...	29.73	54	NE	3	cm	29.76	+ .04	53	51	+ 4	NE	2	0	1	58	46	0.21	
Malin Head ...	29.73	50	E NE	2	b	29.75	+ .04	51	49	+ 2	ESE	3	0	1	53	46	-	
Mullaghmore ...	29.71	58	NW	3	b	29.75	+ .05	52	50	+ 2	NE	4	0	2	59	46	-	
Belmullet ...	29.74	55	N NE	2	b	29.74	+ .03	52	51	- 1	NE	1	0	*	57	47	-	
Donaghadee ...	29.72	56	E NE	3	b	29.76	+ .05	51	50	0	N NE	3	c	1	58	47	-	
Wales.																		
Liverpool (Bidston)	29.70	56	E	3	0	29.70	+ .02	51	48	0	NE	2	0	3	62	46	-	
Holyhead ...	29.67	54	E NE	3	bm	29.71	+ .04	51	49	- 4	E NE	2	cm	2	57	48	0.02	
Parsonstown ...	29.68	62	Z	0	b	29.71	+ .05	50	49	0	Z	0	0	*	65	44	0.06	
Valencia ...	29.66	59	ESE	1	cy	29.68	+ .08	54	51	0	NE	2	0	2	61	46	0.02	
Roche's Point...	29.65	55	ESE	3	b	29.65	+ .04	56	52	+ 3	E	4	b	4	59	47	-	
France.																		
Pembroke (St. Ann's Hd.)	29.62	57	NE	3	b	29.63	+ .01	51	50	- 2	NE	3	cgp	2	60	49	0.02	
Scilly ...	29.55	54	NE	4	bc	29.53	- .00	51	49	0	E NE	5	0	3	55	49	-	
Prawle Point ...	29.58	55	E	2	b	29.56	- .05	48	47	- 6	E NE	6	0	4	59	46	-	
Jersey (St. Aubin's)	29.55	61	NE	2	b	29.52	- .07	49	48	- 8	E NE	5	0	4	65	48	0.04	
Hurst Castle ...	29.59	58	E NE	3	m	29.58	- .03	50	48	- 1	E NE	4	0	2	62	48	0.02	
Spain.																		
Dungeness ...	29.56	54	NE	3	bc	29.54	- .02	48	47	- 3	NE	5	0	4	56	46	0.01	
London ...	29.62	60	NE	2	0	29.58	- .03	49	46	- 1	E	2	0	*	60	48	0.02	
Oxford ...	29.68	69	NE	3	0	29.62	- .02	47	46	+ 1	N NE	3	0	*	56	46	-	
Cambridge ...	29.68	55	NE	1	0	29.59	- .03	51	49	0	NE	2	0	*	63	45	-	
Yarmouth ...	29.67	47	NE	4	g	29.60	- .03	47	46	0	NE	5	c	4	49	44	-	
Germany.																		
Cuxhaven ...	29.63	52	N	3	bc	29.69	+ .03	48	47	- 2	E	5	bc	*	57	46	-	
Berlin ...	29.54	64	N NE	4	bc	29.64	+ .04	51	50	- 13	N NE	4	0	*	72	50	-	
Wiesbaden ...	*	*	*	*	*	29.56	+ .09	58	56	- 4	S	3	0	*	73	55	-	
Munich ...	29.45	56	W	4	0	29.65	+ .23	54	50	3	SW	4	0	*	70	48	0.08	
The Helder ...	29.64	48	E NE	3	c	29.60	- .03	52	51	+ 4	E NE	3	c	3	52	46	-	
Netherlands.																		
Brussels (9 a.m.)	*	*	*	*	*	29.50	- .05	55	54	0	ESE	2	0	*	71	52	-	
Cape Gris Nez	?	48	NE	4	0	?	?	46	46	- 3	E	5	m	5	57	45	-	
Paris ...	29.53	54	N NE	2	0	29.51	- .05	53	52	+ 1	NW	2	0	*	66	52	0.59	
Brest ...	29.51	56	Z	0	0	29.48	- .08	52	50	- 1	SE	2	0	2	63	46	0.04	
Lorient ...	29.50	58	Z	0	c	29.48	- .10	51	50	0	N NE	1	0	2	61	48	0.16	
France and Belgium.																		
Rochefort ...	29.55	66	SE	3	0	29.55	- .11	54	53	+ 3	SE	4	c	?	72	45	0.59	
Belfort ...	29.49	61	W	1	0	29.60	+ .17	60	48	+ 6	NW	1	bc	*	66	49	0.12	
Lyons ...	29.59	54	SSW	1	c	29.58	+ .05	50	49	0	S	1	0	*	56	45	0.20	
Nice ...	29.49	59	ESE	4	b	29.68	+ .27	52	50	0	WSW	4	c	3	70	51	-	
Perpignan ...	29.51	60	NE	2	c	29.58	- .02	59	56	+ 1	SE	2	b	*	66	49	-	
Barritz ...	29.46	63	S	5	0	29.55	0.0	57	50	+ 2	SSW	4	bc	1	72	54	-	
Italy.																		
Coronata ...	*	*	*	*	*	29.64	+ .06	53	50	0	Z	0	0	?	59	?	0.04	
Lisbon ...	29.65	54	WSW	4	bc													

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

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

WEATHER CHARTS

for 8 a.m. on

Friday, 9th May,

1890.

BAROMETER, WIND AND SEA.

EXPLANATION OF MAP.

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

Changes since previous morning are stated in words.

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

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

→ = forces 5 to 7; → = forces 1 to 4.

⊙ = dead calm.

SEA DISTURBANCE—Where considerable, is shown thus:

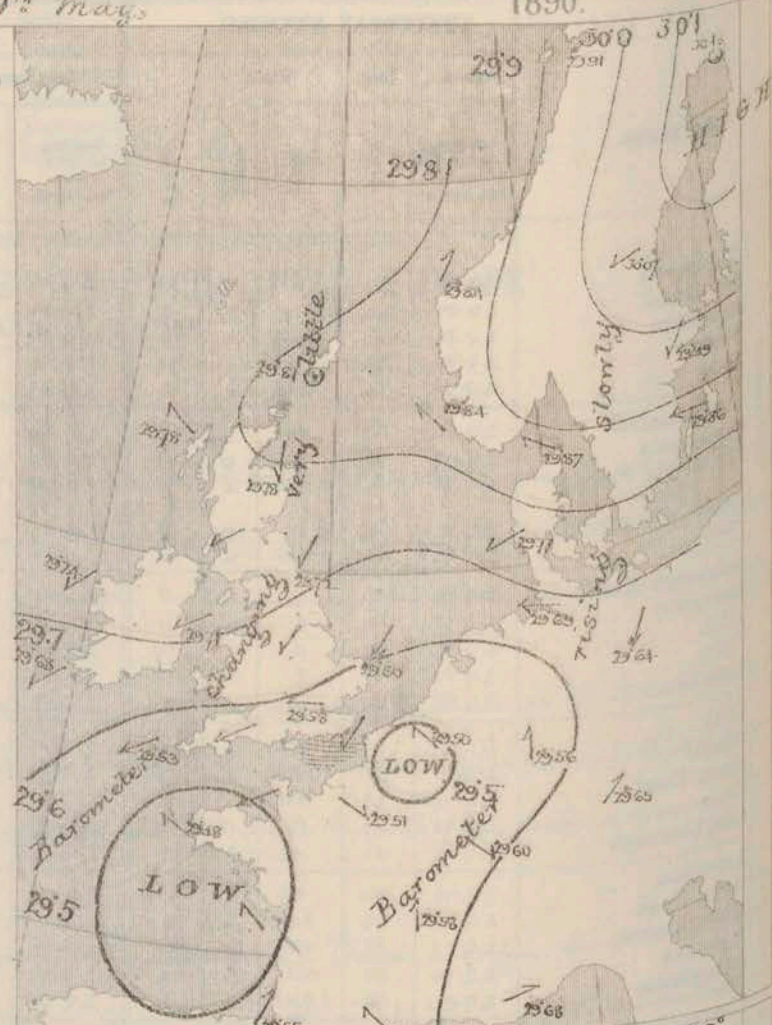
▨ = Rough. ▨ = High.

MEAN HEIGHT OF THE BAROMETER

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

During the 15 Years: 1871—1885.

STATIONS.	MEAN READINGS.
Sumburgh Head	29.878
Stornoway	29.893
Wick	29.906
Nairn	29.918
Aberdeen	29.922
Leith	29.942
Shields	29.955
York	29.974
Loughborough	29.984
Ardrossan	29.949
Donaghadee	29.959
Holyhead	29.971
Liverpool	29.974
Parsonstown	29.976
Valencia	29.984
Roche's Point	29.979
Pembroke	29.977
Sally	29.997
Jersey	30.002
Hurst Castle	29.994
Dover	29.985
LONDON	29.905
Oxford	29.993
Cambridge	29.989
Yarmouth	29.980



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.

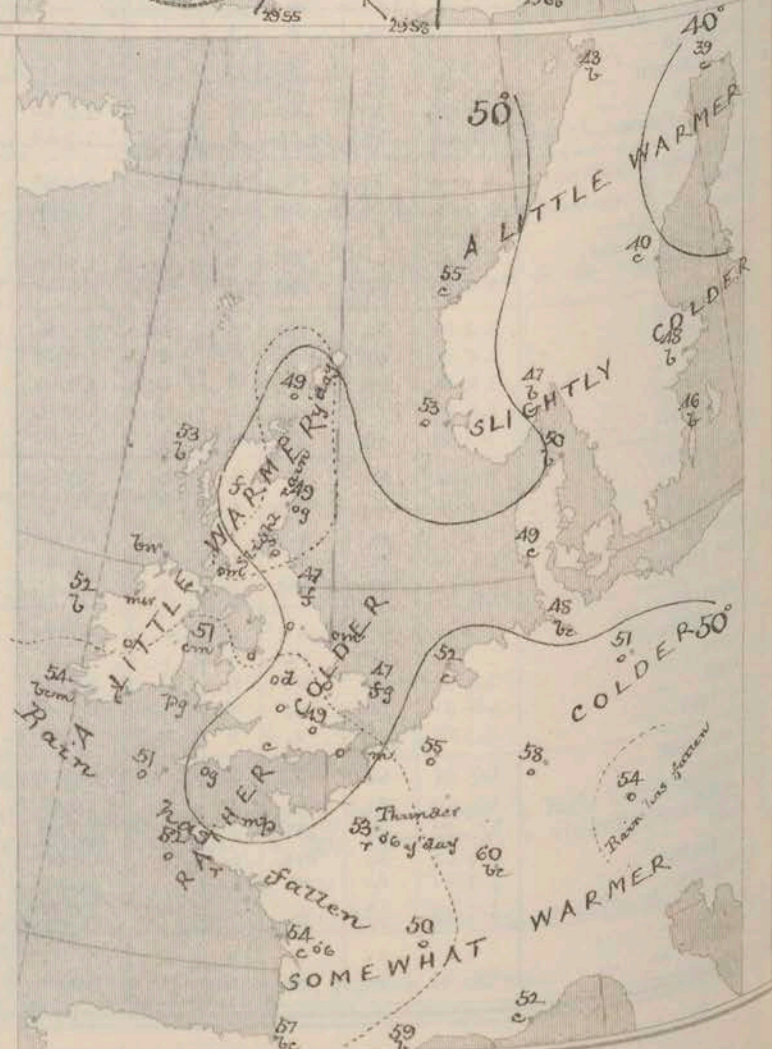
RAINFALL—A dotted line separates the districts in which rain has fallen from those where there has been none. Falls of 0.5 in. or more are quoted in figures.

MEANS OF TEMPERATURE IN SHADE, AND RAINFALL.

(For the month of May.)

STATIONS.	TEMPERATURE.				RAINFALL (Inches.)
	Daily Max.	Daily Min.	at 8 a.m. Dry.	at 8 a.m. Wet.	
Sumburgh Head	50.2	39.9	45.9	43.9	1.71
Stornoway	52.9	40.7	48.4	46.0	2.64
Wick	53.7	40.4	47.9	45.2	1.62
Nairn	55.0	42.0	48.4	45.0	1.67
Aberdeen	55.0	41.7	48.9	45.3	1.90
Leith	57.8	42.2	50.1	46.7	1.65
Shields	51.2	43.1	49.1	45.9	1.75
York	59.3	41.6	49.6	46.1	1.71
Loughborough	61.5	42.2	51.2	47.6	1.96
Ardrossan	56.2	43.7	49.3	46.4	2.20
Donaghadee	55.9	43.6	49.5	47.3	2.16
Holyhead	56.0	46.1	50.3	47.8	1.88
Liverpool	57.6	41.7	50.6	46.8	1.74
Parsonstown	59.3	42.3	51.0	47.7	2.23
Valencia	58.1	45.9	52.8	49.5	2.89
Roche's Point	59.6	46.0	51.7	48.7	3.05
Pembroke	55.1	46.0	49.9	47.4	1.97
Sally	56.3	48.2	52.7	50.3	1.66
Jersey	59.3	47.1	53.5	50.4	1.74
Hurst Castle	58.3	45.3	51.3	49.7	1.70
Dover	56.8	46.8	52.8	49.2	1.57
LONDON	62.1	44.1	52.4	48.4	1.73
Oxford	60.5	43.9	50.6	47.4	1.83
Cambridge	61.7	41.8	51.3	48.1	1.76
Yarmouth	55.4	44.8	50.5	48.6	1.85

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 29.8 in. over Scandinavia and the northeast of Scotland.
 Lowest, 29.5 in. and less, in two shallow depressions - one over the Bay of Biscay, and the other over the northeast of France.
 Gradients slight and mainly favourable for E. winds in our Islands.
 Barometer almost steady everywhere.

TEMPERATURE

Highest, 60° at Belfast, 58° at Perpignan, 58° at Wiesbaden, 57° at Birmm, 54° at Rochfort, and 53° at Stomancey.
 Lowest, 32° at Perpignan, 40° at Remonville, 47° to 49° along our west and northeast coasts.
 In London the reading is 48°, at Berlin 51° and at Paris 53°. Some of the maxima observed over our Islands yesterday ranged between 60° and 65°.

WIND

E⁴ and NE⁴ over the United Kingdom, the Channel and North Sea; it is light to moderate in force in most places, fresh in the Channel. Over Germany and France it is very variable both in force and direction, but is not strong at any station.

WEATHER

Fine and bright in Ireland, dull at the Scotch and English stations, with fog in places, particularly at the eastern stations.
 Rainfall yesterday was considerable over several parts of France, slight in our Islands; a thunderstorm occurred at Paris, and the newspapers report a severe one in Carthage.

SEA

Rather rough at C. G. B. M., moderate at the other Channel stations, slight or smooth elsewhere.

PROBABLE CHANGES IN SYSTEM NOW PREVALENT

The depressions over the Bay of Biscay and France seem likely to cause some cold rain on our southern and eastern coasts, but fine weather is probable in the west and northwest, and fair (but hazy) weather in the northeast.

FORECASTS

For the 24 hours ending at NOON on 10th May 1890.

DISTRICTS.

FORECASTS.

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

Light variable winds; dull at times and hazy, but fair as a whole.

Same as No 5

NE² breezes, moderate or light; dull, cold, some rain.

DISTRICTS.

FORECASTS

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

Light variable breezes; fair generally.

Same as No 5.

NE² and E⁴ 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:	THER:		WIND		WEA	SEA		BAR:	THER:		WIND		WEA	SEA
		D.	W.	D.	F.					D.	W.	D.	F.		
Skudesnaes ...	29.77	55	50	E.N.E.	1	r	3		Holyhead ...	29.68	52	50	N.W.	3	2
Sumburgh Head ...	29.83	51	50	E	0	o	0		Valencia ...	29.64	61	54	E	4	3
Stornoway ...	29.77	52	52	E	4	e	4		Scilly ...	29.55	53	52	E	4	2
Aberdeen ...	29.79	52	51	N.E.	2	e	2		Jersey ...	29.56	62	56	E.S.E.	2	1
Shields ...	29.75	48	47	N.W.	2	o.m.	2		Dungeness ...	29.56	55	52	N.E.	2	2
Ardrossan ...	29.74	58	58	N.E.	2	o	1		London ...	29.62	59	56	N.W.	2	4
Malin Head ...	29.74	52	50	E.N.E.	3	b	0		Yarmouth ...	29.66	48	49	N.E.	4	6
Mullaghmore ...	29.72	58	54	N.W.	2	b.c.m.	2		Rochefort ...	29.62	70	61	W	3	?
Belmullet ...	29.72	57	52	N.W.	2	b	*								

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

Weather fine in the east and southwest of our Islands, as well as in the southwest of France, the north of Scandinavia, Ireland, and the greater part of Central Europe. B dull elsewhere with fog or mist in several parts of Great Britain and France, and rain in the east of Scotland and the extreme southeast of England, as well as at Lyons, Madrid, and Cagliari. Thunderstorms and heavy rain occurring later at some of the French stations.

Temperature highest, 60° and upwards, over Turkey, the Adriatic and the Mediterranean, as well as in some parts of Northern Germany (Constantinople 71°, Barcelona, Brindisi, and Algiers 65°, Buda Pesth and Cagliari 64°, and Lerina 63°). Lowest 29° at Archangel, 36° at St. Petersburg, 38° at Haparanda and Kuopio, 40° at Hermonand, 43° at Le Mans and Limoges, and 44° at Leith. Daily maxima a little above 60° over the central parts of England and Ireland, and above 70° at some of the French and German stations.

Wind light or moderate from the E. or N.E. over our Islands and the greater part of northern and central Europe; S. or S.E. over the Bay of Biscay and the north of Spain. Light from the N.W. over Central France; moderate from W. or S.W. in Italy, variable over Austria and the south of Russia. Light from the S.W. in Algeria. No important change occurring during day.

Barometer highest 30.1 ins. and upwards, over the Gulf of Bothnia and the north of Sweden, 29.9 ins. and upwards over central Algeria. Lowest 29.4 ins. and less, in a depression lying over the northwest of Spain and also in another disturbance over Northern Italy and the Tyrol; small and very shallow disturbance lying near C. Rio Negro. Slight rise of barometer taking place over our Islands during day.

EXPLANATION OF COLUMNS GIVEN ON PAGE 1.

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

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

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

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

DAILY WEATHER REPORT.

for *Saturday, 10th May, 1890.*
Issued by the Meteorological Office, 63, Victoria Street, London. R. H. SCOTT, Secretary.

STATIONS.	YESTERDAY EVENING.					8 A.M. TO DAY.										PAST 24 HOURS.		
	BAROM. Reading at 32° F. and Sea Level.	TEMP. Dry.	WIND.		Weather.	BAROMETER.		SHADE TEMP.			WIND.		Weather.	Sea. (0 to 4.)	SHADE TEMP.		Amount of Rainfall.	
			Direc.	Force. (0 to 12.)		Reading at 32° F. and Sea Level.	Difference from 8 a.m. yesterday.	Dry.	Wet.	Difference from 8 a.m. yesterday.	Direc.	Force. (0 to 12.)			Max.	Min.		
SCANDINAVIA.																		
Haparanda ...	30.20	38	Z	0	0	30.30	+12	39	37	0	S	2	b	*	45	?		
Hernösand ...	30.09	40	NE	2	0	30.15	+08	37	36	-3	E	2	r	*	48	36	0.08	
Stockholm ...	30.02	41	ENE	2	C	30.06	+07	46	39	-2	E	4	b	*	54	32		
Wisby ...	29.95	43	ESE	6	b	29.95	+09	47	42	+1	ESE	4	b	*	61	37		
Bodo ...	29.94	46	ENE	2	C	30.04	+13	47	40	-1	E	6	b	3	52	39		
CHRISTIANIA.																		
Christiansund	29.86	51	E	2	f	29.87	+03	54	51	-1	ESE	3	C	2	?	48	0.24	
Skudesnaes ...	29.84	49	NW	2	0	29.82	-02	54	44	+1	E	6	C	3	?	45		
Christiania Fjord (Færder)	29.88	53	ESE	4	b	29.97	+01	46	42	-1	ENE	6	b	2	55	43		
Skagen (The Scaw)	29.80	53	E	3	b	29.86	-01	49	45	-1	ESE	4	bc	3	63	45		
Faro ...	29.71	48	E	6	b	29.67	-10	47	46	-2	E	6	C	*	54	45		
SCOTLAND.																		
Sumburgh Head	29.77	48	ESE	1	0	29.74	-07	50	47	+1	E	2	C	3	52	45	0.01	
Stornoway ...	29.67	55	E	3	bc	29.57	-21	52	51	-1	SE	4	0	4	59	42		
Wick ...	29.61	48	E	1	f	29.65	-17	50	49	0	SE	3	0	3	51	43	0.03	
Nairn ...	29.70	51	ESE	1	0	29.60	-21	49	48	0	E	1	C	1	55	47		
Aberdeen ...	29.71	47	NE	2	om	29.62	-16	46	45	-3	ENE	3	omd	4	52	45	0.04	
NORTH BRITAIN.																		
Leith ...	29.68	49	ENE	2	0	29.52	-23	47	47	-1	NE	3	rm	*	52	46	0.01	
Shields ...	29.65	47	NNE	1	f	29.45	-27	47	47	0	Z	0	f p	2	49	45	0.15	
Spurn Head ...	29.55	47	NE	5	0	29.42	-23	50	49	+2	SSE	4	omd	4	51	45	0.55	
York ...	29.60	51	E	3	0	29.44	-23	51	50	+1	SE	1	0	*	58	40	0.32	
Loughborough	29.52	50	NE	4	0	29.42	-25	51	50	+2	SSE	2	0	*	56	46	0.33	
IRELAND.																		
Ardrossan ...	29.65	55	NE	3	0	29.47	-29	50	48	-3	ENE	4	om	3	58	47		
Malin Head ...	29.62	52	ENE	2	bm	29.49	-26	49	48	-2	E	3	0	1	55	47		
Mullaghmore ...	29.60	58	NW	2	om	29.46	-29	48	46	-4	ENE	5	om	3	60	47		
Belmullet ...	29.64	51	NNE	2	og	29.45	-29	53	52	+1	NNE	1	0	*	57	49	0.01	
Donaghadee ...	29.62	54	NNE	2	C	29.45	-31	49	47	-2	NE	2	0	0	60	47		
ENGLAND.																		
Liverpool (Bidston)	29.53	57	NE	3	bc	29.38	-32	49	48	-2	ENE	2	0	3	59	47	0.31	
Holyhead ...	29.56	52	NE	3	cm	29.37	-34	48	48	-3	ENE	3	ogm	3	53	47	0.09	
Parsonstown ...	29.59	58	Z	0	bc	29.42	-29	49	47	-1	NW	1	0	*	61	41	0.01	
Valencia ...	29.59	57	N	2	cm	29.42	-26	52	51	-2	N	1	ogm	1	61	50	0.19	
Roche's Point...	29.56	53	ESE	3	or	29.41	-24	53	50	-3	NNE	4	C	4	61	48		
WALLES.																		
Pembroke (St. Ann's Hd.)	29.51	52	NNE	2	0	29.32	-31	49	49	-2	S	1	rm	1	58	48	0.37	
Scilly ...	29.50	53	SE	1	bc	29.36	-17	50	49	-1	SW	2	r	2	55	48	0.17	
Prawle Point ...	29.49	49	SE	2	0	29.39	-17	50	50	+2	S	3	C	2	57	48	0.02	
Jersey (St. Aubin's)	29.53	51	ENE	3	ogrm	29.48	-04	53	51	+4	SSE	4	bc	3	53	48	0.15	
Hurst Castle ...	29.46	51	SW	2	m	29.45	-13	50	50	0	SSW	4	C	2	52	49	0.41	
SOUTH BRITAIN.																		
Dungeness ...	29.44	49	SW	2	orm	29.49	-05	49	49	+1	SW	1	0	1	50	47	0.30	
London ...	29.44	51	N	1	or	29.47	-11	51	49	+2	S	2	0	*	52	48	0.42	
Oxford ...	29.45	47	NNE	3	r	29.44	-18	50	48	+3	S	3	og	*	61	47	0.60	
Cambridge ...	29.46	50	N	2	r	29.46	-13	53	50	+2	S	1	0	*	60	47	0.35	
Yarmouth ...	29.44	49	ENE	5	ogfr	29.48	-12	50	49	+3	S	3	C	3	50	45	0.41	
FRANCE.																		
Cuxhaven ...	29.65	48	ESE	6	0	29.64	-05	49	48	+1	SE	5	r	*	54	48		
Berlin ...	29.64	60	NE	2	b	29.71	+07	57	55	+6	E	3	0	*	70	?		
Wiesbaden ...	*	*	*	*	*	29.71	+15	58	55	0	SW	2	bc	*	68	52	0.08	
Munich ...	29.66	58	SE	1	bc	29.81	+16	55	52	+1	Z	0	bc	*	68	52		
The Helder ...	29.51	58	SE	2	l	29.54	-06	53	51	+1	SSE	2	C	3	59	52	0.12	
PORTUGAL.																		
Brussels (9 a.m.)	*	*	*	*	*	29.60	+10	55	51	0	S	3	b	*	64	50	0.08	
Cape Gris Nez	?	52	SW	3	bc	?	?	50	49	+4	SW	4	r	4	55	45	0.35	
Paris ...	29.52	59	WSW	3	C	29.60	+09	48	46	-3	ESE	1	bc	*	?	42	0.08	
Brest ...	29.49	52	Z	0	0	29.45	-03	53	51	+1	SW	3	C	3	63	48	0.04	
Lorient ...	29.48	56	SW	3	bc	29.48	00	53	?	+2	WSW	2	C	2	59	50	?	
SPAIN.																		
Rochefort ...	29.66	56	NW	3	bc	29.55	-00	54	51	0	SSW	4	0	?	66	43	0.08	
Belfort ...	29.73	60	N	1	r	29.75	+15	60	48	0	N	1	0	*	64	46	0.12	
Lyons ...	29.66	54	N	2	r	29.62	+04	52	51	+2	E	1	0	*	69	49	0.24	
Nice ...	?	55	NW	2	f	29.74	+06	56	52	+4	ENE	1	C	3	63	50		
Perpignan ...	29.58	65	NE	2	C	29.52	-06	60	54	+1	S	4	0	*	67	54		
Biarritz ...	29.58	61	ENE	3	0	29.47	-08	51	50	-6	N	4	r	1	68	50	0.55	
ITALY.																		
Corunna ...	*	*	*	*	*	29.47	+02	53	51	-2	S	2	r	3	63	50	0.04	
Lisbon ...	29.60	53	NNE	1	r	29.65	+01	54	51	+1	WSW	3	b	2	59	52	0.08	

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

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

WEATHER CHARTS

for 8 a.m. on

Saturday 10th May.

1890.

BAROMETER, WIND AND SEA.

EXPLANATION OF MAP.

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

Changes since previous morning are stated in words.

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

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

→ = forces 5 to 7; → = forces 1 to 4.

☉ = dead calm.

SEA DISTURBANCE—Where considerable, is shown thus:

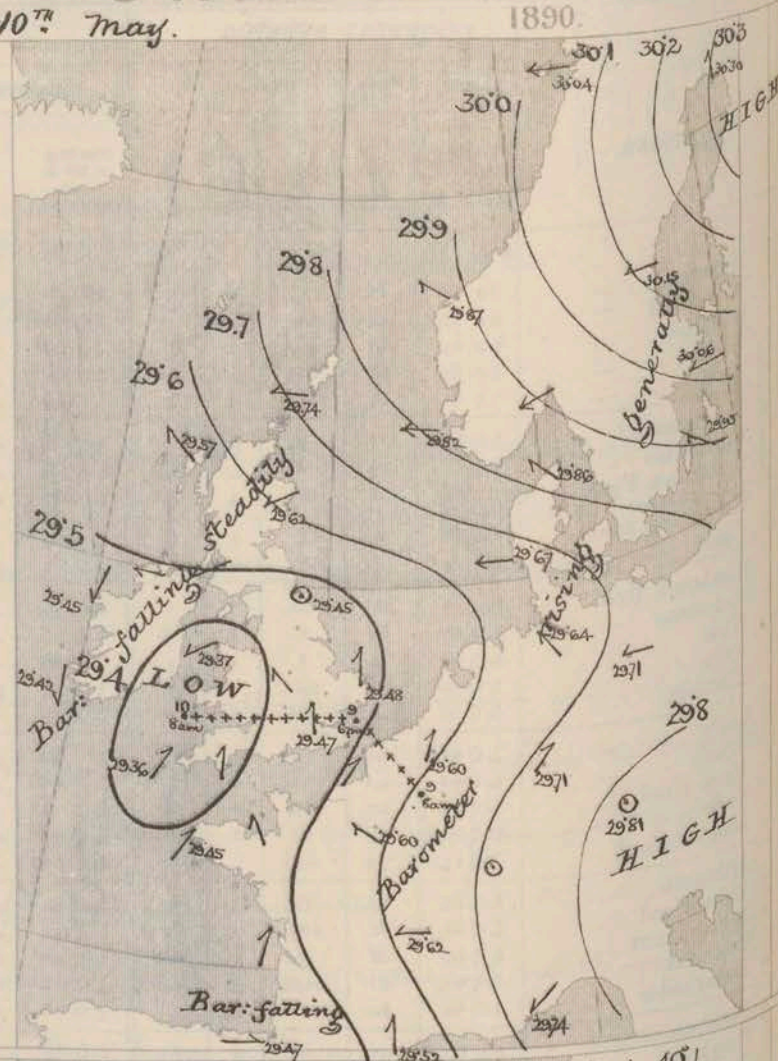
▨ = Rough. ▨ = High:

MEAN HEIGHT OF THE BAROMETER

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

During the 15 Years: 1871—1885.

STATIONS.	MEAN READINGS.
Sumburgh Head	29.878
Stornoway	29.893
Wick	29.906
Nairn	29.918
Aberdeen	29.922
Leith	29.942
Shields	29.955
York	29.974
Loughborough	29.984
Ardrossan	29.940
Donaghadee	29.959
Holyhead	29.971
Liverpool	29.974
Parsonstown	29.976
Valencia	29.984
Roche's Point	29.979
Pembroke	29.977
Scilly	29.997
Jersey	30.002
Hurst Castle	29.994
Dover	29.985
LONDON	29.995
Oxford	29.993
Cambridge	29.989
Yarmouth	29.980



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

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

WEATHER is shown by Letters of the Beaufort Scale.

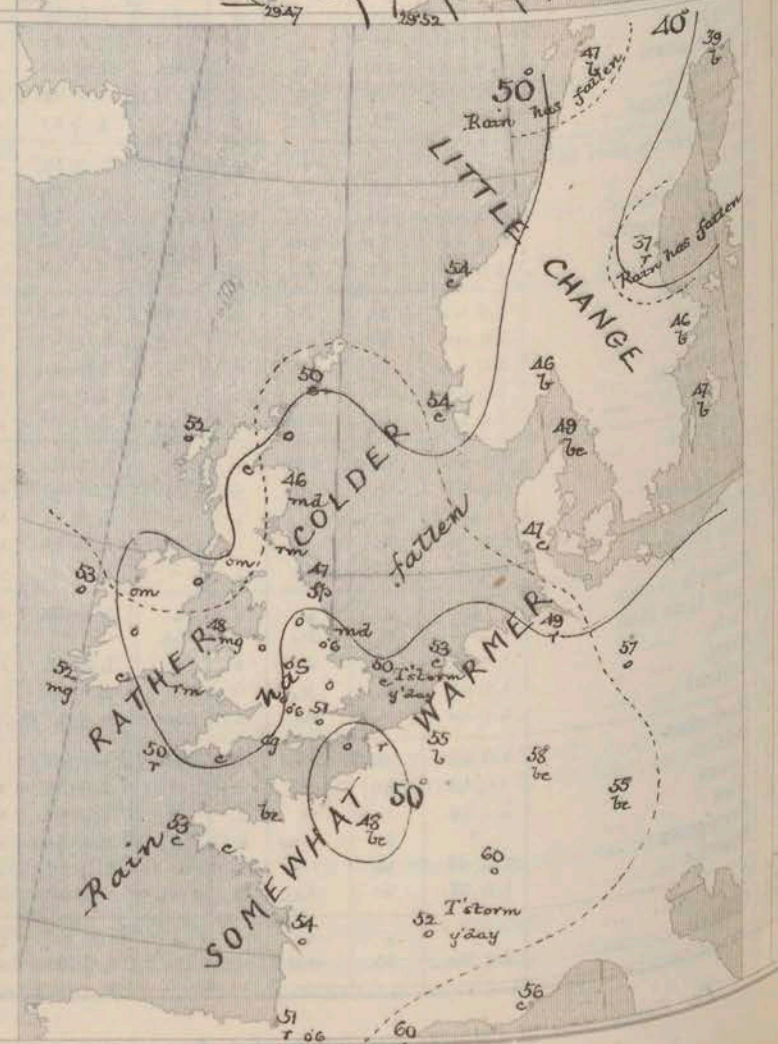
RAINFALL—A dotted line separates the districts in which rain has fallen from those where there has been none. Falls of 0.5 in. or more are quoted in figures.

MEANS OF TEMPERATURE IN SHADE, AND RAINFALL.

(For the month of May.)

STATIONS.	TEMPERATURE.				RAINFALL. (Inches.)
	Daily Max.	Daily Min.	At 8 a.m.		
			Dry.	Wet.	
Sumburgh Head.....	50.2	39.0	45.9	43.9	1.71
Stornoway	52.9	40.7	48.4	46.0	2.64
Wick.....	53.7	40.4	47.9	45.2	1.62
Nairn	55.9	42.0	48.4	45.0	1.67
Aberdeen.....	55.0	41.5	48.9	45.3	1.90
Leith.....	57.8	42.2	50.1	46.7	1.65
Shields.....	54.2	43.1	49.1	45.9	1.75
York.....	59.3	41.6	49.6	46.4	1.71
Loughborough.....	61.5	42.2	51.2	47.6	1.96
Ardrossan.....	56.2	43.7	49.3	46.4	2.20
Donaghadee.....	55.9	43.6	49.5	47.3	2.15
Holyhead.....	56.0	46.1	50.3	47.8	1.88
Liverpool.....	57.5	44.7	50.6	46.8	1.74
Parsonstown.....	59.3	42.3	51.0	47.7	2.23
Valencia.....	58.1	45.9	52.8	49.5	2.89
Roche's Point.....	59.6	46.0	51.7	48.7	3.05
Pembroke.....	55.1	46.0	49.9	47.4	1.97
Scilly.....	56.3	45.2	52.7	50.3	1.66
Jersey.....	59.3	47.1	53.5	50.4	1.74
Hurst Castle.....	58.3	45.3	51.3	49.7	1.70
Dover.....	56.8	40.8	52.8	49.2	1.77
LONDON.....	62.1	44.1	52.4	48.4	1.73
Oxford.....	60.5	43.9	50.6	47.4	1.83
Cambridge.....	61.7	45.8	51.3	48.1	1.76
Yarmouth.....	55.4	44.8	50.5	48.0	1.85

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



GENERAL SITUATION AT 8 A.M.

PRESSURE

Highest, 29.8 in: to 30.3 in: and more, over Scandinavia; 29.8 in: and more over South Germany.
Lowest, 29.4 in: and less, in a depression lying over Wales and English Channel.

Gradients slight to moderate generally.

Barometer rising in the southeast and east, falling in the west.

TEMPERATURE

Highest, 60° at Belfort and Perpignan, 58° at Mirbadon, 57° at Berlin, 55° at Brussels, and 54° at Christiansund and Shusness.
Lowest, 37° at Hunsand, 39° at Knaparanda, 46° at Perth and Aberdeen, 47° at Faro, Leith, and Shields.

At Paris the reading was 48°, in London 51°

WIND

E^{ly} to SE^{ly} over Scandinavia, the North Sea and Scotland, NE^{ly} to N^{ly} in Ireland, S^{ly} over England and the west of France, SW^{ly} over the Spanish Peninsula.

In force it is still light to moderate generally.

WEATHER

Fine at some of the most eastern and southeastern stations, cloudy or overcast elsewhere, with rain in Wales and the west of England.

Rain fell yesterday except in the northwest, and thunderstorms occurred at Yarmouth and the Helder.

SEA

Moderate to smooth.

PROBABLE CHANGES IN SYSTEM NOW PREVALENT

The depression in the west will probably cause rain, and perhaps thunder in Ireland, but over England an improvement is probable, with considerable increase of temperature.

FORECASTS

For the 24 hours ending at NOON on 11th May

1890.

DISTRICTS.

FORECASTS.

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

E^{ly} and SE^{ly} breezes, moderate or light; cloudy, some rain at times.

S^{ly} and SE^{ly} winds, light, changeable, some showers but warm bright intervals.

DISTRICTS.

FORECASTS

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

S^{ly} and SE^{ly} winds, strong; cloudy, changeable showery.

Wind shifting to the Snd; unsettled, rainy, thunder locally.

WARNINGS

NONE ISSUED.

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

YESTERDAY'S 2 P.M. REPORTS.

THER: WIND								THER: WIND									
BAR:		D.	W.	D.	F.	WEA.	SEA	BAR:		D.	W.	D.	F.	WEA.	SEA		
Skudesnaes ...	29.85	58	50	WSW	1	c	2	Holyhead ...	29.63	51	49	NNE	4	bcn	2		
Sumburgh Head	29.79	49	48	ESE	1	0	0	Valencia ...	29.63	61	56	N	2	om	2		
Stornoway ...	29.72	59	57	SE	3	b	3	Scilly ...	29.53	55	50	E	3	bc	3		
Aberdeen ...	29.75	50	48	NE	3	0	3	Jersey ...	29.50	51	50	EHE	4	0	3		
Shields ...	29.69	48	48	NNE	1	f	2	Dungeness ...	29.46	48	48	NNE	3	r	*		
Ardrossan ...	29.69	57	53	NE	3	0	2	London ...	29.49	52	51	NE	1	org	4		
Malin Head ...	29.70	54	52	E	2	b	0	Yarmouth ...	29.53	49	48	NE	5	cbg	?		
Mullaghmore ...	29.66	58	55	NW	2	bcn	2	Rochefort ...	29.64	62	53	NW	3	0			
Belmullet ...	29.68	55	53	NNE	2	b	*										

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

Weather fine and bright over Ireland as well as in Scandinavia, Finland, Denmark, Southern Austria and Algeria. Cloudy or overcast elsewhere, with fog on the east coast of England, passing showers in the southwest of our Islands, and rain at Riga, Paris, Lorient and San Fernando. Steady rain setting in later over nearly the whole of England and also in the south of Ireland. Thunder occurring at Yarmouth, the Helder and beyond.

Temperature highest 60° and upwards over the Mediterranean, the Adriatic, and the shores of the Black Sea (71° at La Caille, 67° at Barcelona and Algiers, 66° at Bordj, and 63° at Leghorn and Palermo.) Lowest 26° at Archangel, 36° at Kuopio, 38° at St. Petersburg, 33° at Havanna and 31° at St. John's. Daily maxima below 55° in many parts of Great Britain, but above 65° over the central and southern parts of France.

Wind NE^{ly} over the greater part of Northern and Northwestern Europe; light or moderate in force generally, but fresh or strong on the south and southeast coasts of England. Moderate from the SWnd or Wnd over Italy, Spain and the south of France, light from the Snd in Algeria. Variable over Central and Eastern Europe, and also in the north of Scandinavia. Subsequently shifting to the SWnd over the eastern parts of the Channel and falling light.

Barometer highest 30.1 ins. and upwards, over Finland and Eastern Lapland, 29.9 ins. and upwards, over Sicily and the neighbouring parts of the Mediterranean. Lowest 29.5 ins. in two large but shallow depressions lying respectively over Austria and the Bay of Biscay, and also in a smaller system lying over the northeast of France. Depressions over Bay of Biscay and northeast of France subsequently moving north-westwards, the disturbance in latter region reaching the southeast of England in afternoon.

EXPLANATION OF COLUMNS GIVEN ON PAGE 1.

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

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

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

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

DAILY WEATHER REPORT.

for Sunday 11th May 1890.
Issued by the Meteorological Office, 63, Victoria Street, London. R. H. SCOTT, Secretary.

STATIONS.	YESTERDAY EVENING.					8 A.M. TO DAY.										PAST 24 HOURS.		
	BAROM :	TEMP.	WIND.		Weather.	BAROMETER.		SHADE TEMP.			WIND.		Sea. (0 to 5.)	SHADE TEMP.		Amount of Rainfall.		
	Reading at 32° F. and Sea Level.	Dry.	Dirce.	Force. (0 to 12.)		Reading at 32° F. and Sea Level.	Difference from 8 a.m. yesterday.	Dry.	Wet.	Difference from 8 a.m. yesterday.	Dirce.	Force. (0 to 12.)		Max.	Min.			
Haparanda ...	30.23	26	Z	0	b	30.24	- .06	41	40	+ 2	Z	0	b	*	46	27	—	
Hernösand ...	30.21	38	ESE	2	o	30.23	+ .08	43	40	+ 6	E	2	c	*	43	36	0.39	
Stockholm ...	30.13	38	E	2	b	30.14	+ .08	45	41	- 1	ENE	4	b	*	54	36	—	
Wisby ...	30.02	40	ESE	4	b	30.03	+ .08	46	44	- 1	SE	4	b	*	52	37	—	
Bodö ...	30.05	46	E	2	b	30.12	+ .08	48	40	+ 1	E	2	b	1	52	39	—	
Christiansund	29.88	55	NE	3	b	29.91	+ .04	54	48	0	ESE	1	b	0	?	45	—	
Skudesnaes ...	29.85	54	ESE	4	o	29.86	+ .04	53	47	- 1	E	4	c	3	61	48	—	
Christiania Fjord (Fæder)	29.94	52	ENE	5	bc	30.04	+ .07	43	39	- 3	NNE	5	o	2	54	41	—	
Skagen (The Seaw)	29.87	54	S	1	bc	29.92	+ .06	48	46	- 1	ESE	3	o	3	63	46	—	
Fanö ...	29.75	49	E	6	o	29.70	+ .03	48	48	+ 1	E	5	blr	*	54	46	0.12	
Sumburgh Head	29.78	50	F	3	c	29.75	+ .01	47	47	- 3	SE	3	m	5	53	46	—	
Stornoway ...	29.58	53	SE	5	bc	29.55	- .02	50	50	- 2	SE	4	o	4	56	45	0.02	
Wick ...	29.65	48	SE	4	o	29.67	+ .02	48	47	- 2	SE	4	f	3	52	41	0.05	
Nairn ...	29.59	48	E	3	o	29.60	.00	51	50	+ 2	ESE	2	c	1	54	45	0.06	
Aberdeen ...	29.60	45	ENE	3	o	29.66	+ .04	45	45	- 1	E	2	ofd	5	47	45	0.31	
Leith ...	29.51	48	ENE	2	f	29.58	+ .06	47	47	0	E	3	o	*	48	44	0.04	
Shields ...	29.47	48	ESE	2	o	29.49	+ .04	45	45	- 2	NNE	1	f	3	50	43	—	
Spurn Head ...	29.48	51	SE	4	c	29.34	- .08	48	48	- 2	NE	5	r	4	53	46	0.62	
York ...	29.48	55	SSE	1	r	29.40	- .04	49	48	- 2	N	1	r	*	58	45	0.33	
Loughborough	29.45	57	SE	2	c	29.42	.00	49	49	- 2	WNW	3	r	*	59	48	0.31	
Ardrossan ...	29.46	51	NE	3	o	29.54	+ .07	53	51	+ 3	NE	3	cm	1	53	47	0.06	
Malin Head ...	29.45	47	NE	4	o	29.52	+ .03	50	50	+ 1	SE	3	om	2	52	47	0.01	
Mullaghmore ...	29.44	50	NNE	4	r	29.51	+ .05	51	50	+ 3	ENE	2	om	3	53	48	0.01	
Belmullet ...	29.47	51	NNE	4	o	29.52	+ .07	52	51	- 1	ENE	1	o	*	55	49	0.04	
Donaghadee ...	29.43	50	ESE	2	o	29.53	+ .08	51	50	+ 2	E	2	m	0	51	48	0.02	
Liverpool (Bidston)	29.43	54	ESE	2	o	29.48	+ .10	53	51	+ 4	ESE	1	o	2	58	49	—	
Holyhead ...	29.40	53	SE	1	o	29.49	+ .12	53	51	+ 5	Z	0	c	0	55	48	0.01	
Parsonstown ...	29.39	49	NW	1	r	29.48	+ .06	50	49	+ 1	Z	0	o	*	51	47	0.17	
Valencia ...	29.42	53	NNW	4	o	29.50	+ .08	51	50	- 1	NNW	2	omg	1	57	49	0.16	
Roche's Point...	29.36	50	NNE	3	r	29.45	+ .04	52	50	- 1	E	2	o	3	55	49	0.35	
Pembroke (St. Ann's Hd.)	29.37	50	SE	2	c	29.48	+ .16	52	50	+ 3	SE	1	b	1	52	47	0.05	
Scilly ...	29.35	53	S	1	bc	29.45	+ .09	57	54	+ 7	SSE	1	bc	1	57	50	—	
Prawle Point ...	29.43	52	E	2	c	29.50	+ .11	53	51	+ 3	ESE	1	bc	0	53	48	—	
Jersey (St. Aubin's)	29.40	61	ESE	4	o	29.55	+ .07	50	53	+ 3	SSE	3	bcm	3	66	50	0.08	
Hurst Castle ...	29.46	56	SW	3	bc	29.50	+ .05	53	52	+ 3	SW	2	bc	1	58	50	0.02	
Dungeness ...	29.48	53	E	3	c	29.50	+ .01	51	50	+ 2	W	5	o	3	58	49	0.09	
London ...	29.48	59	SE	1	c	29.43	- .04	49	49	- 2	WSW	2	r	*	60	49	0.30	
Oxford ...	29.47	53	SSE	1	bc	29.45	+ .01	49	49	- 1	WNW	2	r	*	57	48	0.17	
Cambridge ...	29.49	58	S	1	o	29.36	- .10	49	49	- 4	NW	1	r	*	63	48	0.70	
Yarmouth ...	29.54	50	ESE	3	bc	29.37	- .11	49	48	- 1	S	5	cg	4	53	48	0.42	
Cuxhaven ...	29.66	53	ESE	4	c	29.60	- .04	54	53	+ 5	E	3	bc	*	59	?	0.14	
Berlin ...	29.73	64	ESE	4	b	29.73	+ .02	60	57	+ 3	ESE	4	b	*	72	52	—	
Wiesbaden ...	*	*	*	*	*	29.65	- .06	58	54	0	SW	4	o	*	66	54	—	
Munich ...	29.67	60	SE	4	c	29.69	- .12	61	55	+ 6	Z	0	o	*	70	50	—	
The Helder ...	29.60	56	ENE	2	c	29.49	- .05	56	55	+ 3	SSE	2	o	2	59	53	0.04	
Brussels (9 a.m.)	*	*	*	*	*	29.54	- .06	55	50	0	SSW	5	bc	*	63	53	0.04	
Cape Gris Nez	?	53	NE	3	r	?	?	52	51	+ 2	SW	4	o	3	69	50	0.99	
Paris ...	29.42	54	E	2	o	29.62	+ .02	52	49	+ 4	SSW	4	b	*	?	48	0.72	
Brest ...	29.39	57	WSW	1	b	29.47	+ .02	53	51	0	ESE	1	o	2	63	47	—	
Lorient ...	29.41	52	SSE	5	o	29.49	+ .01	51	49	- 2	S	3	t	2	59	48	0.08	
Rocheport ...	29.54	53	W	3	o	29.55	.00	50	49	- 4	SE	3	bc	3	57	41	0.51	
Belfort ...	29.73	58	S	1	o	29.75	.00	58	46	+ 2	S	1	o	*	64	45	—	
Lyons ...	29.41	66	SSW	3	o	29.69	+ .07	49	48	- 3	NW	2	o	*	70	46	0.24	
Nice ...	29.65	64	E	5	bc	29.65	- .09	60	54	+ 4	W	2	c	4	70	55	—	
Perpignan ...	29.50	60	?	3	o	29.55	+ .03	58	57	- 2	W	1	o	*	68	50	—	
Biarritz ...	29.48	62	S	4	c	29.58	+ .11	56	53	+ 5	SW	3	o	1	64	51	—	
Corunna ...	*	*	*	*	*	29.63	+ .16	56	55	+ 3	W	1	o	3	61	46	0.16	
Lisbon ...	29.65	53	WNW	4	r	29.56	- .09	51	50	- 3	ESE	3	o	4	59	50	0.12	

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

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

WEATHER CHARTS

for 8 a.m. on

Sunday, 11th May,

1890.

BAROMETER, WIND AND SEA.

EXPLANATION OF MAP.

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

Changes since previous morning are stated in words.

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

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

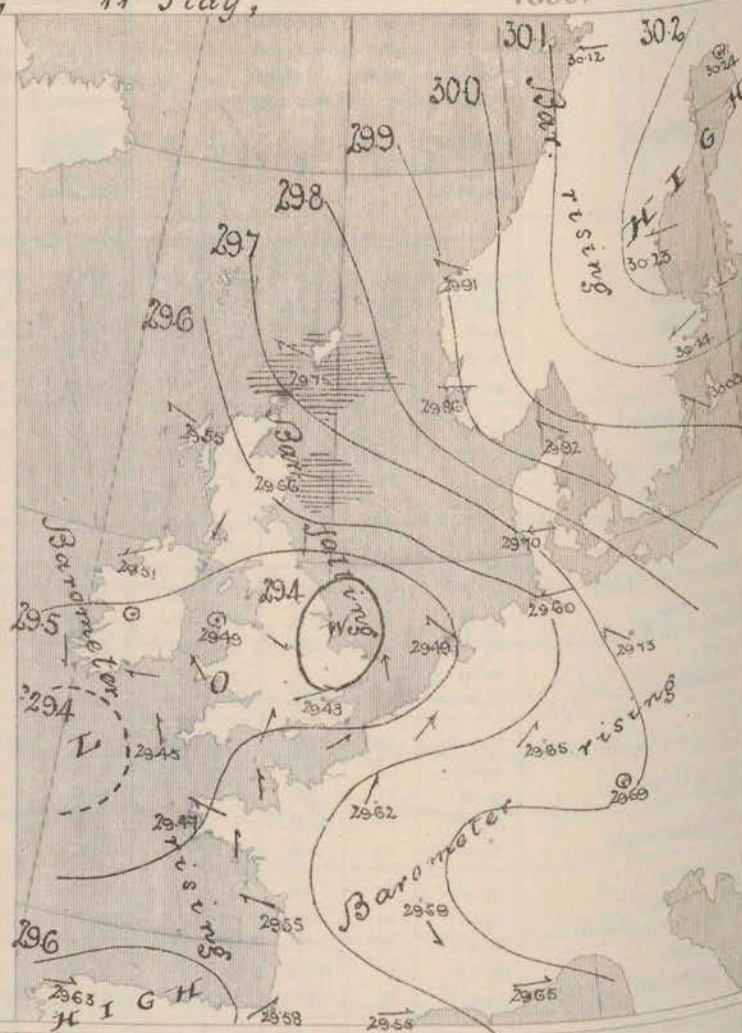
SEA DISTURBANCE—Where considerable, is shown thus:

▨ = Rough. ▩ = High.

MEAN HEIGHT OF THE BAROMETER

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

STATIONS.	MEAN READINGS.
Sumburgh Head	29.878
Stornoway	29.893
Wick	29.906
Nairn	29.918
Aberdeen	29.922
Leith	29.942
Shields	29.955
York	29.974
Loughborough	29.984
Ardrossan	29.949
Donaghadee	29.959
Holyhead	29.971
Liverpool	29.974
Parsonstown	29.976
Valencia	29.984
Roche's Point	29.979
Pembroke	29.977
Scilly	29.997
Jersey	30.002
Hurst Castle	29.994
Dover	29.985
LONDON	29.995
Oxford	29.993
Cambridge	29.989
Yarmouth	29.980



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.

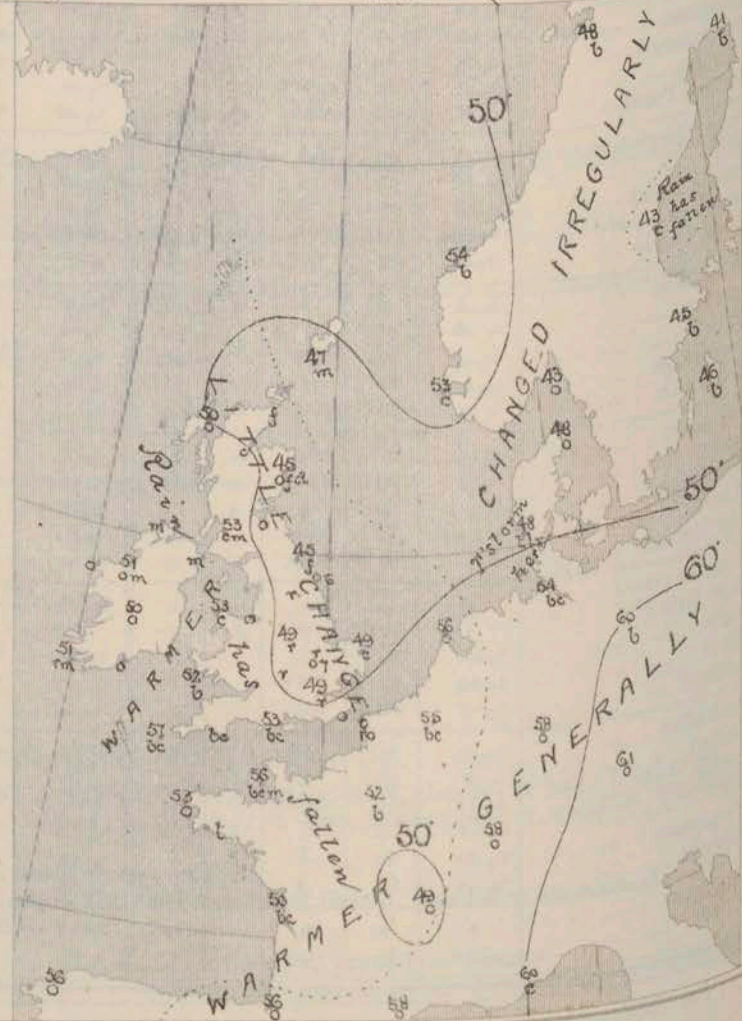
RAINFALL—A dotted line separates the districts in which rain has fallen from those where there has been none. Falls of 0.5 in. or more are quoted in figures.

MEANS OF TEMPERATURE IN SHADE, AND RAINFALL.

(For the month of May.)

STATIONS.	TEMPERATURE.				RAINFALL (Inches.)
	Daily Max.	Daily Min.	at 8 a.m.		
			Dry.	Wet.	
Sumburgh Head.....	50.2	39.9	45.9	43.9	1.71
Stornoway	52.9	40.7	48.4	46.0	2.64
Wick	53.7	40.4	47.9	45.2	1.62
Nairn	55.0	42.0	48.4	45.0	1.67
Aberdeen	55.0	41.7	48.9	45.3	1.90
Leith	57.8	42.2	50.1	46.7	1.65
Shields	54.2	43.1	49.1	45.9	1.75
York	59.3	41.6	49.6	46.4	1.71
Loughborough	61.6	42.2	51.2	47.6	1.96
Ardrossan	56.2	43.7	49.3	46.4	2.20
Donaghadee	55.9	43.6	49.5	47.3	2.15
Holyhead	56.0	45.1	50.3	47.8	1.88
Liverpool	57.5	44.7	50.6	46.8	1.74
Parsonstown	59.3	42.3	51.0	47.7	2.23
Valencia	58.1	45.9	52.8	49.5	2.89
Roche's Point	59.6	46.0	51.7	48.7	3.05
Pembroke.....	55.1	40.0	49.9	47.4	1.97
Scilly	56.2	48.2	52.7	50.3	1.66
Jersey	59.3	47.1	53.5	50.4	1.74
Hurst Castle	68.3	45.3	51.3	49.7	1.70
Dover	56.8	46.8	52.8	49.2	1.77
LONDON	62.1	44.1	52.4	48.4	1.73
Oxford	60.6	43.9	50.6	47.4	1.83
Cambridge	61.7	41.8	51.3	48.1	1.76
Yarmouth	55.4	44.8	50.5	48.0	1.85

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



GENERAL SITUATION AT 8 A.M.

PRESSURE

Highest, 29.9 in. to 30.2 in. and more over Scandinavia - 29.6 in. and more over the Spanish Peninsula.
 Lowest, 29.4 in. and less, in a depression lying over the East of England and adjacent parts of the North Sea - 29.5 in. and less, in another off our southern coasts.
 Gradient moderate over the northern and eastern parts of the North Sea, slight elsewhere.
 Barometer rising over Spain, France, Germany and south of England, falling at our northern stations.

TEMPERATURE

Highest, 61° at Munich, 60° at Berlin, 58° at Minsk, 57° at Odessa, 56° at Vienna and Rome, 54° at Christiania and
 Lowest, 41° at Kapaunda, 43° at Kieff, 45° at Aberdeen and Shields, 47° at Leith and Funchal H., 49° in London and over Central England generally.
 It went down to 41° in the shade at Kieff during the night. In London it rose to 60° during yesterday afternoon.

WIND

Moderate from E. or S.E. in Norway, Scotland, and the north of Ireland.
 Light S. to W. at our southern stations and in the north of France.
 Very variable elsewhere, and of little force.

WEATHER

Very changeable from clear to overcast and rainy and vice versa. Rainfall has been rather heavy at the southern and northern stations. Lightning has occurred at Lyons.

SEA

Rather rough in the northeast, moderate in the east, slight to smooth elsewhere.

PROBABLE CHANGES IN SYSTEM NOW PREVALENT

FORECASTS

For the 24 hours ending at NOON on 12th May.

1890.

DISTRICTS.

FORECASTS.

DISTRICTS.

FORECASTS

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

NONE ISSUED

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

WARNINGS

NONE ISSUED

NONE ISSUED

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

YESTERDAY'S 2 P.M. REPORTS.

	BAR:	THER:		WIND		WEA.	SEA		BAR:	THER:		WIND		WEA.	SEA
		D.	W.	D.	F.					D.	W.	D.	F.		
Skudesnaes ...	29.83	60	48	E	4	bc	3	Holyhead ...	29.37	52	50	SE	3	omg	3
Sumburgh Head ...	29.78	51	48	SE	3	c	3	Valencia ...	29.41	57	54	N	3	om	2
Stornoway ...	29.57	56	55	E	5	bc	4	Scilly ...	29.34	54	52	S	2	o	3
Aberdeen ...	29.60	45	45	ENE	5	ogmd	5	Jersey ...	29.86	59	54	SE	3	bc	1
Shields ...	29.47	48	47	S	3	o	3	Dungeness ...	29.50	57	54	SW	2	bc	*
Ardrossan ...	29.44	50	49	NE	4	a	3	London ...	29.46	58	52	S	1	o	4
Malin Head ...	29.46	49	48	ENE	3	o	1	Yarmouth ...	29.52	52	50	S	4	bc	?
Mullaghmore ...	29.43	53	49	NE	4	om	2	Rocheport ...	29.52	52	51	WSW	2	r	
Belmullet ...	29.48	53	50	NE	3	o	*								

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

Weather dull over nearly the whole of western and southern Europe, with mist in many parts of the United Kingdom, and rain on our southwest and northeast coasts, as well as in the southwest of France and the north of Spain. Fine in most of the northern, eastern and central countries as well as in Algeria and the south of Italy, but foggy at Breslau and Warsaw. Decided improvement taking place later over the eastern and southern parts of England, but thunderstorms and heavy rain occurring at some of the French stations.

Temperature highest 60° and upwards over the Mediterranean, the Adriatic, and Southeastern Europe (Tunis 73°, Algiers 71°, Cagliari 68°, Malta 67°, and Oren and Constantinople 66°). Lowest, 23° at Archangel, 35° at Krasnoyarsk, 36° at St. Petersburg, and 37° at Tromsø and Moscow; below 50° in many parts of the United Kingdom, only 44° at Madrid. Daily maxima over our Islands mostly below 60°, but thermometer exceeding 70° over Southern Europe, and exceeding 80° in Sicily and Algeria (Palermo 90°, La Jolla 95°).

Winds light or moderate from the End over the northern parts of our Islands and of Europe generally; NE^{ly} or N^{ly} in Ireland. Moderate from the SWnd in Spain, and from the SWnd over France and the greater part of England. Light and variable over Algeria, Italy, Central and Eastern Europe. Subsequently backing to the SEnd over England; cyclonic circulation of light winds appearing over France.

Barometer highest, 30.3 in: and upwards in an anticyclone lying over Ireland, 29.5 in: and upwards over the south of Italy. Lowest, 29.4 in: and less, in a depression lying over Wales, the southwest of England and the neighbouring Channels; 29.5 in: and less, in another disturbance over the south of Russia. Former system moving southwards later and partially deepening, but new disturbance beginning to appear over Central 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, 12th May, 1890.*
 Issued by the Meteorological Office, 63, Victoria Street, London. *R. H. SCOTT, Secretary.*

STATIONS.	YESTERDAY EVENING.					8 A.M. TO DAY.										PAST 24 HOURS.		
	BAROM.	TEMP.	WIND.		Weather.	BAROMETER.		SHADE TEMP.			WIND.		Weather.	Sea. (0 to 9.)	SHADE TEMP.			
	Reading at 32° F. and Sea Level.	Dry.	Dir.	Force. (0 to 12.)		Reading at 32° F. and Sea Level.	Difference from 8 a.m. yesterday.	Dry.	Wet.	Difference from 8 a.m. yesterday.	Dir.	Force. (0 to 12.)			Max.	Min.	Amount of Rainfall.	
SCANDINAVIA.																		
Haparanda ...	30.20	35	23	0	b	30.21	-.03	41	39	0	S	1	b	*	50	?	-	
Hernösand ...	30.18	40	E.N.E.	2	o	30.13	-.10	43	46	0	E	2	b	*	52	36	-	
Stockholm ...	30.13	41	E.S.E.	4	b	30.01	-.13	48	44	+3	E	4	o	*	54	32	-	
Wisby ...	30.02	44	SE	4	bc	29.95	-.08	56	50	+10	S.S.E.	4	c	*	?	37	-	
Bodö ...	30.00	43	E	4	b	29.95	-.17	50	43	+2	E	4	b	2	52	37	-	
CHRISTIANIA.																		
Christiansund	29.80	56	N.N.E.	4	b	29.68	-.23	55	47	+1	E.S.E.	2	bc	2	59	50	-	
Skudesnaes ...	29.78	49	E.S.E.	4	r	29.66	-.20	52	48	-1	E.S.E.	6	o	4	?	46	0.28	
Christiania Fjord (Færder)	29.88	54	E.N.E.	5	c	29.84	-.20	44	43	+1	N.N.E.	5	r	2	54	43	0.32	
Skagen (The Scaw)	29.83	50	SE	3	r	29.73	-.19	53	53	+5	SE	2	r	2	54	48	0.51	
Fanö ...	29.70	49	2	0	b	29.69	-.01	50	50	+2	N	1	c	*	57	45	0.32	
SCOTLAND.																		
Sumburgh Head	29.69	48	E	3	r	29.41	-.34	47	46	0	E.S.E.	3	r	6	51	45	0.07	
Stornoway ...	29.54	56	E	3	bc	29.39	-.16	51	50	+1	2	0	o	2	58	43	-	
Wick ...	29.57	47	SE	4	r	29.40	-.27	49	49	+1	N.W.	2	o	2	50	45	0.15	
Nairn ...	29.53	48	E.S.E.	2	r	29.41	-.19	48	47	-3	N.W.	1	o	1	61	46	0.05	
Aberdeen ...	29.48	45	N.N.E.	4	or	29.42	-.24	49	48	+4	S	2	c	4	49	45	0.80	
ENGLAND.																		
Leith ...	29.44	47	N.E.	3	r	29.48	-.10	52	50	+5	W	2	o	*	52	45	0.33	
Shields ...	29.37	48	2	0	m	29.53	+0.08	52	50	+7	SSW	3	c	2	52	44	0.45	
Spurn Head ...	29.47	52	N.W.	5	c	29.59	+0.25	52	51	+4	S.S.E.	1	c	3	54	46	0.04	
York ...	29.42	50	W	3	o	29.58	+0.18	51	49	+2	S.S.E.	1	b	*	51	40	0.27	
Loughborough	29.51	56	SW	2	bc	29.60	+0.18	51	50	+2	E	1	om w	*	57	43	0.43	
IRELAND.																		
Ardrossan ...	29.46	52	2	0	o	29.50	-.04	50	49	+3	N.N.E.	2	bc m	1	57	49	0.55	
Malin Head ...	29.49	53	N	1	bc m	29.48	-.04	50	49	0	SSW	2	ow	1	55	48	-	
Mullaghmore ...	29.51	56	N.W.	2	bc	29.51	-.00	51	45	0	SSW	2	ow	2	54	47	-	
Belmullet ...	29.54	56	N	2	bc	29.51	-.01	51	47	-1	SW	3	o	*	56	49	-	
Donaghadee ...	29.49	52	N.E.	2	o	29.54	+0.01	52	50	+1	N.E.	2	o	0	58	50	-	
BRITISH ISLANDS.																		
Liverpool (Bidston)	29.49	52	N.W.	1	o	29.57	+0.09	57	51	+4	SE	1	b	2	58	44	0.05	
Holyhead ...	29.50	57	W	2	cm	29.57	+0.08	53	51	0	SW	3	bw	2	61	47	-	
Parsonstown ...	29.50	56	2	0	c	29.57	+0.09	51	50	+1	2	o	c	*	58	43	0.32	
Valencia ...	29.57	52	N.W.	3	og m	29.60	+0.10	52	48	+1	SW	1	o	1	55	46	0.01	
Roche's Point...	29.52	52	E.S.E.	1	c	29.60	+0.13	53	50	+1	N	2	c	3	55	47	-	
EUROPE.																		
Pembroke (St. Ann's Hd.)	29.52	52	SW	1	b	29.59	+0.11	50	49	-2	S	1	cm	1	56	45	-	
Scilly ...	29.51	56	SSW	2	o	29.57	+0.12	53	52	-4	SW	1	bc	3	60	51	0.05	
Prawle Point ...	29.53	54	S.S.E.	1	bc	29.59	+0.09	55	54	+2	SE	1	bw	0	58	47	-	
Jersey (St. Aubin's)	29.53	57	S	2	cp q	29.56	+0.01	58	53	+2	N.W.	3	b	3	62	44	0.05	
Hurst Castle ...	29.56	56	SSW	3	bc	29.59	+0.09	56	54	+3	E.N.E.	3	bc	0	57	50	0.25	
FRANCE AND BELGIUM.																		
Dungeness ...	29.53	55	W	2	bc	29.55	+0.05	52	51	+1	SE	2	o	1	56	49	-	
London ...	29.56	61	S	2	bc	29.59	+0.16	55	52	+6	SE	1	om	*	62	48	0.08	
Oxford ...	29.58	51	E	1	b	29.59	+0.14	55	52	+6	N.N.E.	1	b	*	63	46	0.17	
Cambridge ...	29.52	55	W	1	o	29.59	+0.23	56	53	+7	N.E.	1	bc	*	68	45	0.22	
Yarmouth ...	29.53	60	N.W.	3	bc	29.59	+0.22	53	51	+4	2	o	bc	2	60	48	0.01	
GERMANY.																		
Cuxhaven ...	29.65	57	N.W.	2	b	29.71	+0.17	54	53	0	N.E.	3	b	*	64	54	-	
Berlin ...	29.71	68	E	3	o	29.62	-.11	63	59	+3	E	4	b	*	?	57	-	
Wiesbaden ...	*	*	*	*	*	29.43	-.22	64	58	+6	N.E.	2	bc	*	68	52	-	
Munich ...	29.69	63	SE	1	o	29.50	-.19	64	54	+3	SE	4	o	*	73	54	-	
The Helder ...	29.65	53	SSW	2	b	29.61	+0.12	56	53	0	E.N.E.	2	bc	2	59	48	-	
NETHERLANDS.																		
Brussels (9 a.m.)	*	*	*	*	*	29.51	-.03	60	54	+5	N.N.E.	2	b	*	63	52	-	
Cape Gris Nez	?	58	SW	2	b	?	?	56	51	+4	E.S.E.	3	o	2	59	48	-	
Paris ...	29.60	60	E.N.E.	2	o	29.47	-.15	55	52	+3	N.W.	2	o	*	67	52	-	
Brest ...	29.54	57	N	1	b	29.62	+0.15	53	51	0	N	1	o	1	63	48	-	
Lorient ...	29.55	57	W	2	b	29.56	+0.07	49	47	-2	N	2	b	2	59	45	0.08	
SPAIN.																		
Rochefort ...	29.56	58	N.W.	3	c	29.53	-.02	55	53	+5	N.W.	4	o	?	63	46	-	
Belfort ...	29.47	59	N	1	o	29.34	-.41	60	49	+2	N.W.	1	o	*	69	54	-	
Lyons ...	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	
Nice ...	29.41	68	E.N.E.	5	o	29.15	-.50	55	53	-5	E.N.E.	7	r	6	79	52	0.39	
Perpignan ...	29.43	60	N.W.	3	o	29.31	-.24	51	43	-7	N.W.	4	r	*	64	50	0.59	
Biarritz ...	29.58	57	N.W.	3	o	29.56	-.02	55	52	-1	N.W.	5	o	2	63	50	-	
PORTUGAL.																		
Corunna ...	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	
Lisbon ...	29.76	55	N.W.	5	bc	29.89	+0.33	55	51	+4	N.W.	3	bc	4	61	?	0.08	

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

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

WEATHER CHARTS

for 8 a.m. on

Monday, 12th May.

1890.

BAROMETER, WIND AND SEA.

EXPLANATION OF MAP.

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

Changes since previous morning are stated in words.

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

their barbs and feathers refer to force thus—

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

→ = forces 5 to 7; → = forces 1 to 4.

☉ = dead calm.

SEA DISTURBANCE—Where considerable, is shown thus:

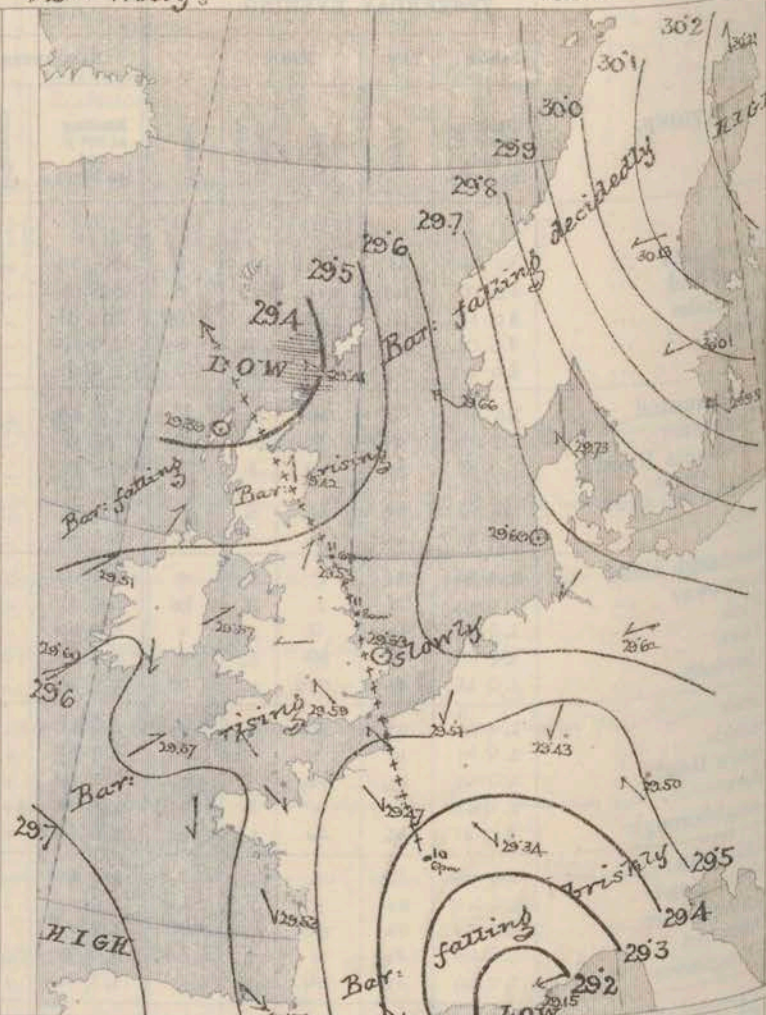
▨ = Rough, ▨ = High.

MEAN HEIGHT OF THE BAROMETER

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

During the 15 Years: 1871—1885.

STATIONS.	MEAN READINGS.
Sumburgh Head	29.878
Stornoway	29.893
Wick	29.906
Nairn	29.918
Aberdeen	29.922
Leith	29.942
Shields	29.955
York	29.974
Loughborough	29.984
Ardrossan	29.949
Donaghadee	29.959
Holyhead	29.971
Liverpool	29.974
Parsonstown	29.976
Valencia	29.984
Roche's Point	29.979
Pembroke	29.977
Scilly	29.997
Jersey	30.002
Hurst Castle	29.994
Dover	29.985
LONDON	29.995
Oxford	29.993
Cambridge	29.989
Yarmouth	29.980



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.

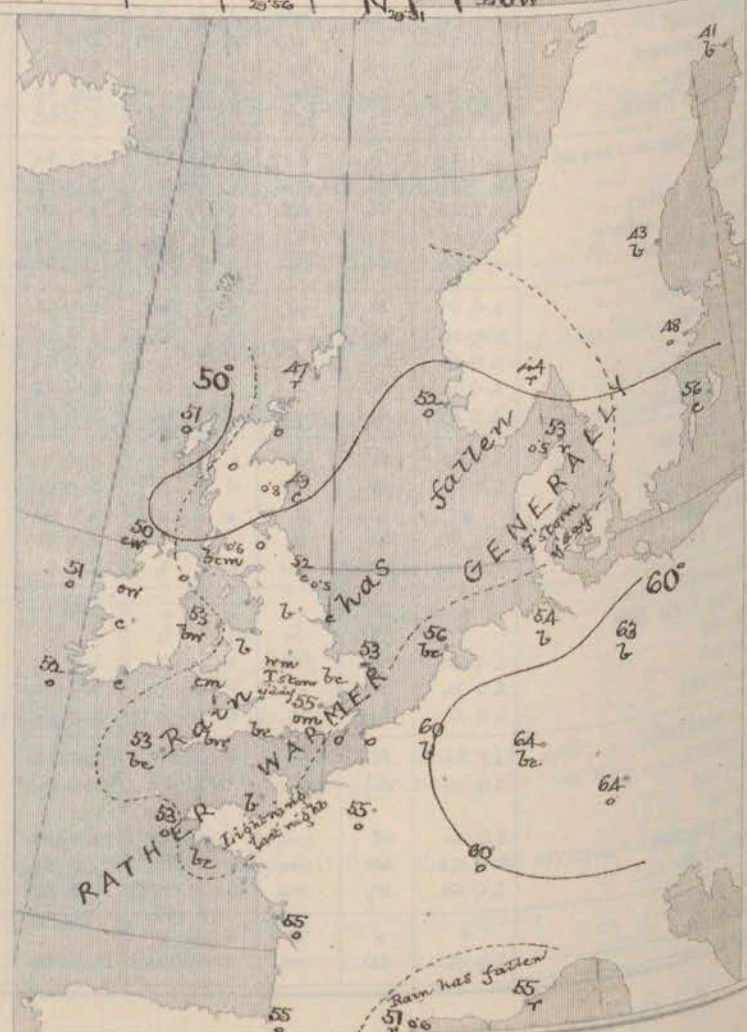
RAINFALL—A dotted line separates the districts in which rain has fallen from those where there has been none. Falls of 0.5 in. or more are quoted in figures.

MEANS OF TEMPERATURE IN SHADE, AND RAINFALL.

(For the month of May.)

STATIONS.	TEMPERATURE.				RAINFALL (Inches.)
	Daily Max.	Daily Min.	at 8 a.m.		
			Dry.	Wet.	
Sumburgh Head.....	50.2	39.9	45.9	43.9	1.71
Stornoway.....	52.9	40.7	48.4	46.0	2.04
Wick.....	53.7	40.4	47.9	45.2	1.62
Nairn.....	55.9	42.0	48.4	45.0	1.67
Aberdeen.....	55.0	41.7	48.9	45.3	1.90
Leith.....	57.8	42.2	50.1	46.7	1.65
Shields.....	54.2	43.1	49.1	45.9	1.75
York.....	59.3	41.6	49.6	46.4	1.71
Loughborough.....	61.5	42.2	51.2	47.6	1.96
Ardrossan.....	56.2	43.7	49.3	46.4	2.20
Donaghadee.....	55.9	43.6	49.6	47.3	2.15
Holyhead.....	56.0	46.1	50.3	47.8	1.88
Liverpool.....	57.5	44.7	50.6	46.8	1.74
Parsonstown.....	59.3	42.3	51.0	47.7	2.23
Valencia.....	58.1	45.9	52.8	49.5	2.80
Roche's Point.....	59.6	46.0	51.7	48.7	3.05
Pembroke.....	55.1	46.0	49.9	47.4	1.97
Scilly.....	56.3	48.2	52.7	50.3	1.66
Jersey.....	59.3	47.1	53.5	50.4	1.74
Hurst Castle.....	58.3	45.3	51.3	49.7	1.70
Dover.....	56.8	46.8	52.8	49.2	1.77
LONDON.....	62.1	44.1	52.4	48.4	1.73
Oxford.....	60.5	43.9	50.6	47.4	1.83
Cambridge.....	61.7	41.8	51.3	48.1	1.76
Yarmouth.....	55.4	44.8	50.5	48.0	1.85

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, 29.7 in: to 30.2 in: over Scandinavia; 29.7 in: to 29.9 in: over the south-western half of the Spanish Peninsula.
 Lowest, 29.4 in: and less, over the north of Scotland, 29.3 in: and less, over the southeast of France and Gulf of Genoa.
 Gradients moderate on the Continent, slight elsewhere and very variable.
 Barometer is rising a little over the northern parts of Great Britain, falling in France, and inclined to fall in the south of our islands.

TEMPERATURE

Highest, 63° to 64° at the German stations, 60° at Belfast and Brussels, 55° at Jersey, 56° at Metz, and 55° at Paris, Biarritz, and in London.
 Lowest, 41° at Haparanda, 44° at Tander, 47° at Lumburg, 44° and 48° at Narvik.
 It rose during yesterday to between 60° and 68° in many parts of our islands; at Münster it reached 73°, and at Trier 75°.

WIND

Chiefly SW at the Scotch and Irish stations, very variable over England, E to N in the Channel, NNW over the Bay of Biscay and south-west of France. It is light generally in force.

WEATHER

Very changeable; clear in some places, densely overcast in others, misty and close in several localities.
 In London the sky has become overcast with Stratus clouds moving steadily from SE and increasing in density.

SEA

Rough at Lumburg Head, moderate at Aberdeen, slight or smooth at all the more southern stations.

PROBABLE CHANGES IN SYSTEM NOW PREVALENT

The new depressions advancing from the SW seem likely to cause rainy, thundery weather, except, perhaps, in the north, during the coming twenty-four hours.

FORECASTS

For the 24 hours ending at NOON on 13th May

1890.

DISTRICTS.

FORECASTS.

DISTRICTS.

FORECASTS

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

Very light and Variable breezes; very changeable, fair and close to unsettled.

Same as No 5.

Very Variable light winds; unsettled, close, rain and thunder at times.

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

SW^{ly} and Varying breezes; changeable, showery.

Same as No 5

Same as Nos 6 and 7.

WARNINGS

NONE ISSUED.

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

YESTERDAY'S 2 P.M. REPORTS.

	BAR:	THER:		WIND		WEA	SEA		BAR:	THER:		WIND		WEA	SEA
		D.	W.	D.	F.					D.	W.	D.	F.		
Skudesnaes ...	29.81	56	48	E	5	O	3		Holyhead ...	29.50	59	55	NW	1	
Sumburgh Head ...									Valencia ...						
Stornoway ...	29.56	55	54	SE	2	O	3		Scilly ...						
Aberdeen ...									Jersey ...	29.55	58	55	SE	2	bc
Shields ...									Dungeness ...	29.53	55	52	W	5	bc
Ardrossan ...									London ...						
Malin Head ...	29.51	55	52	E	2	C	2		Yarmouth ...						
Mullaghmore ...									Rocheport ...	29.58	62	57	NW	3	bc
Belmullet ...	29.63	56	53	N	2	bc	*								

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

Weather rainy over the eastern and central parts of England, foggy on the northeast coast of Great Britain, and dull in most other parts of the United Kingdom, as well as in Denmark, Germany, France, Spain and the south of Russia. Thunderstorms reported in morning at Fano and Lorient. Fine over the English and Bristol Channels, and also over Scandinavia, northern Russia and the greater part of Italy. Improvement taking place over England later, but thunderstorms occurring locally; heavy rain falling in Scotland.

Temperature highest 60° to 70° or more over Italy, Algeria and the Mediterranean (La Calle 73° at Rome, Naples and Palermo 72°, and Trieste and Ancona 68°). Lowest 30° at Archangel, 34° at Moscow, 40° at Kuopio, 41° at Haparanda and St. Petersburg. Aberdeen and Shields only 45°, and Madrid only 46°. Highest daily maxima over our Islands, 68° at Cambridge, and 63° at Oxford, but thermometer rising above 70° in the south of France.

Wind E² over the northern and western parts of our Islands, and the northern and eastern parts of Europe generally; light from the S^W over France and from the S^W over the southeast of England, SE² in Italy, Austria and eastern Germany; NE² in Spain; S² or S^W² in Algeria. Subsequently shifting to the W² in many parts of England and to the NW² at Biarritz and Lisbon.

Barometer highest 30.2 ins. to 30.3 ins. and more in an anticyclone lying over the northern part of Sweden and Russia. Lowest 29.4 ins. and less in a well marked depression lying over the east of England, and also in a smaller system lying between Algiers and Palma; 29.5 ins. and less in another disturbance situated to the southwest of our Islands. Depression over England subsequently moving northwards, but other shallower systems appearing over France.

SUMMARY OF CHANGES IN THE WEATHER OVER THE BRITISH ISLANDS AND THEIR NEIGHBOURHOOD FROM THE 4TH TO THE 10TH MAY 1890

In the course of this week pressure has been continuously highest over Scandinavia, and lowest in depressions which have appeared to the southwestward of our Islands, or in secondary systems lying either over the northwest of Germany, the northeast of France or in the neighbourhood of our southeastern coasts. The barometric gradients have been slight. The wind over the United Kingdom has consequently varied between NE and SE in direction, and has been moderate to light in force. Temperature has varied a little, sometimes on one, sometimes on the other side of the average for the time of year, and showers of rain have fallen from time to time in all parts of the Kingdom - more in the southwest and south than elsewhere. Solar and lunar halos have been observed very frequently over England and thunderstorms have occurred in many localities, both over the British Islands and the Continent.

At the close of the week the only depression still in force was moving slowly to the westward across Ireland, S² winds had spread over England and Wales, with an increase of temperature and some improvement of weather, but on Saturday evening the appearance of the sky in London was not at all settled, and the wind was backing again.

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 MAY. 1890.

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

STATIONS.	YESTERDAY EVENING.					8 A.M. TO DAY.										PAST 24 HOURS.		
	BAROM. Reading at 32° F. and Sea Level.	TEMP. Dry.	WIND.		Weather.	BAROMETER.		SHADE TEMP.			WIND.		Sea. (0 to 9.)	SHADE TEMP.		Amount of Rainfall.		
			Force. (0 to 12.)	Dirac.		Reading at 32° F. and Sea Level.	Difference from 8 a.m. yesterday.	Dry.	Wet.	Difference from 8 a.m. yesterday.	Dirac.	Force. (0 to 12.)		Weather.	Max.		Min.	
SCANDINAVIA.																		
Haparanda ...	29.03	40	E	0	b	29.03	-10	45	42	+2	ENE	2	b	*	59	36	—	
Hernösand ...	29.90	48	E	4	o	29.84	-17	51	46	+5	ENE	4	o	*	59	37	—	
Stockholm ...	29.84	51	SE	4	c	29.73	-22	57	52	+5	SE	4	b	*	59	41	—	
Wisby ...	29.89	51	E	2	b	29.82	-13	54	45	+9	E	2	b	*	57	43	—	
Bodö ...	29.89	51	E	2	b	29.82	-13	54	45	+9	E	2	b	*	57	43	—	
SCANDINAVIA.																		
Christiansund ...	29.60	60	E	2	b	29.69	+0.1	50	51	+1	E	3	c	2	66	48	—	
Skudesnaes ...	29.68	48	SE	4	c	29.64	-0.2	52	50	0	ENE	2	o	3	66	46	0.16	
Christiania Fjord (Færd)	29.77	50	NE	3	o	29.70	-14	51	49	+2	NNE	5	b	2	66	46	0.08	
Skagen (The Scaw)	29.67	51	ENE	2	o	29.54	-15	51	50	-2	E	4	o	4	54	48	—	
Fanö ...	29.49	53	E	5	o	29.32	-37	54	54	+4	ENE	6	o	*	64	50	—	
SCANDINAVIA.																		
Sumburgh Head	29.41	47	SW	1	p	29.54	+1.3	47	47	0	SE	1	o	5	48	43	0.20	
Stornoway ...	29.43	53	SW	4	o	29.52	+1.3	51	50	0	W	2	c	2	55	46	0.02	
Wick ...	29.47	51	NW	1	c	29.52	+1.2	54	52	+2	W	1	b	1	54	42	0.08	
Nairn ...	29.46	56	E	0	b	29.54	+1.3	51	49	+2	E	0	o	1	58	47	0.06	
Aberdeen ...	29.50	53	SE	3	ogp	29.55	+1.3	53	50	+4	SE	1	c	3	58	40	0.09	
SCANDINAVIA.																		
Leith ...	29.50	53	W	3	p	29.57	+0.9	54	50	+4	N	1	c	*	63	45	0.16	
Shields ...	29.51	58	SE	3	c	29.55	+0.2	51	50	-1	NW	3	c	2	64	48	0.02	
Spurn Head ...	29.54	52	ENE	3	b	29.58	+0.4	54	52	+2	NW	3	c	1	54	45	—	
York ...	29.53	62	E	1	b	29.57	+0.1	53	51	+2	W	1	o	*	66	49	0.18	
Loughborough	29.53	65	E	0	c	29.58	+0.2	54	51	+3	WNW	3	c	*	70	47	0.14	
SCANDINAVIA.																		
Androssan ...	29.49	53	SW	2	om	29.59	+0.9	52	49	+3	WNW	4	b	2	57	47	0.19	
Malin Head ...	29.48	49	W	2	op	29.59	+1.1	49	46	-3	E	3	b	2	53	45	0.15	
Mullaghmore ...	29.51	49	W	4	op	29.62	+1.1	50	45	-5	SEW	4	b	2	54	42	0.04	
Belmullet ...	29.54	51	WNW	3	b	29.59	+0.8	50	46	-4	SEW	4	o	*	52	45	0.12	
Donaghadee ...	29.51	51	W	3	p	29.63	+0.9	51	48	-3	WNW	2	b	0	57	47	0.33	
SCANDINAVIA.																		
Liverpool (Bidston)	29.55	53	NW	1	o	29.62	+0.5	49	48	-1	W	3	o	3	63	48	0.03	
Holyhead ...	29.55	51	SW	4	cm	29.66	+0.9	53	52	+1	WNW	3	b	3	56	46	0.08	
Parsonstown ...	29.56	50	E	0	p	29.70	+1.3	49	46	-3	E	0	b	*	57	36	0.01	
Valencia ...	29.64	53	WNW	4	b	29.69	+0.9	51	48	-3	SEW	4	o	4	55	43	0.05	
Roche's Point...	29.56	54	W	3	c	29.71	+1.1	52	49	-3	W	2	c	3	56	42	—	
SCANDINAVIA.																		
Pembroke (St. Ann's Hd.)	29.58	57	SEW	1	c	29.71	+1.2	50	48	-2	NW	2	b	1	56	47	—	
Seilly ...	29.69	53	WNW	4	c	29.75	+1.8	52	48	-4	NW	4	b	3	56	48	0.01	
Prawle Point ...	29.58	57	W	3	b	29.70	+1.1	52	50	-2	NW	4	b	3	57	46	—	
Jersey (St. Aubin's)	29.59	55	WNW	4	b	29.69	+1.3	54	51	-3	WNW	4	b	3	60	49	—	
Hurst Castle ...	29.54	58	W	4	b	29.61	+0.2	53	53	0	WNW	4	b	1	63	50	—	
SCANDINAVIA.																		
Dungeness ...	29.50	57	E	3	c	29.51	-0.4	57	52	+5	N	2	c	1	62	46	—	
London ...	29.52	61	ENE	2	b	29.56	-0.3	53	52	-1	NW	2	c	*	67	47	—	
Oxford ...	29.54	59	E	0	c	29.59	0.0	54	50	-4	WNW	3	b	*	68	48	—	
Cambridge ...	29.54	54	ENE	1	c	29.56	-0.3	54	52	-2	N	1	o	*	68	47	—	
Yarmouth ...	29.54	52	NNE	2	b	29.47	-12	52	50	-2	N	3	c	4	54	48	0.07	
SCANDINAVIA.																		
Cuxhaven ...	29.46	59	ENE	3	b	29.28	-43	54	53	0	ENE	3	m	*	67	54	—	
Berlin ...	29.39	75	SE	4	o	29.31	-31	69	63	+6	SE	5	b	*	82	63	—	
Wiesbaden ...	29.39	75	SE	4	o	29.31	-31	69	63	+6	SE	5	b	*	82	63	—	
Munich ...	29.36	64	SE	6	o	29.40	-10	64	56	0	SE	2	b	*	77	514	—	
The Helder ...	29.41	53	NNE	5	b	29.26	-35	51	50	-1	NNE	5	b	4	59	50	0.08	
SCANDINAVIA.																		
Brussels (9 a.m.)	29.38	51	E	4	o	29.38	-13	50	50	-10	WNW	3	o	*	72	50	0.05	
Cape Gris Nez	29.41	61	NNW	3	o	29.54	+0.7	53	51	-2	N	4	b	3	59	50	0.05	
Paris ...	29.67	56	N	1	o	29.77	+1.5	52	48	-4	N	3	b	3	63	46	—	
Brest ...	29.63	57	NW	5	c	29.78	+1.2	51	49	+2	NW	4	b	3	59	46	—	
Lorient ...	29.63	57	NW	5	c	29.78	+1.2	51	49	+2	NW	4	b	3	59	46	—	
SCANDINAVIA.																		
Rocheport ...	29.63	58	NW	6	c	29.77	+1.2	55	52	-3	NW	5	o	*	61	46	—	
Belfort ...	29.22	66	WNW	1	o	29.45	+1.5	57	48	-9	W	2	T	*	73	54	0.16	
Lyons ...	29.31	58	WNW	4	T	29.62	+1.4	57	48	-9	WNW	3	T	*	73	54	0.16	
Nice ...	29.35	52	E	4	T	29.56	+1.4	53	54	0	E	4	T	6	66	50	—	
Perpignan ...	29.44	56	W	6	o	29.71	+1.4	57	50	+6	WNW	5	o	*	57	52	0.12	
Biarritz ...	29.71	53	NNW	5	T	29.51	+1.3	53	51	0	NW	4	o	3	57	52	0.12	
SCANDINAVIA.																		
Corunna ...	29.02	56	WNW	3	c	29.08	+1.9	56	54	+2	NNW	3	o	3	59	54	0.04	
Lisbon ...	29.02	56	WNW	3	c	29.08	+1.9	56	54	+2	NNW	3	o	3	59	54	0.04	

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

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

WEATHER CHARTS

for 8 a.m. on

Tuesday, 13th May,

1890.

BAROMETER, WIND AND SEA.

EXPLANATION OF MAP.

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

Changes since previous morning are stated in words.

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

their barbs and feathers refer to force thus—

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

→ = forces 5 to 7; → = forces 1 to 4.

⊕ = dead calm.

SEA DISTURBANCE—Where considerable, is shown thus:

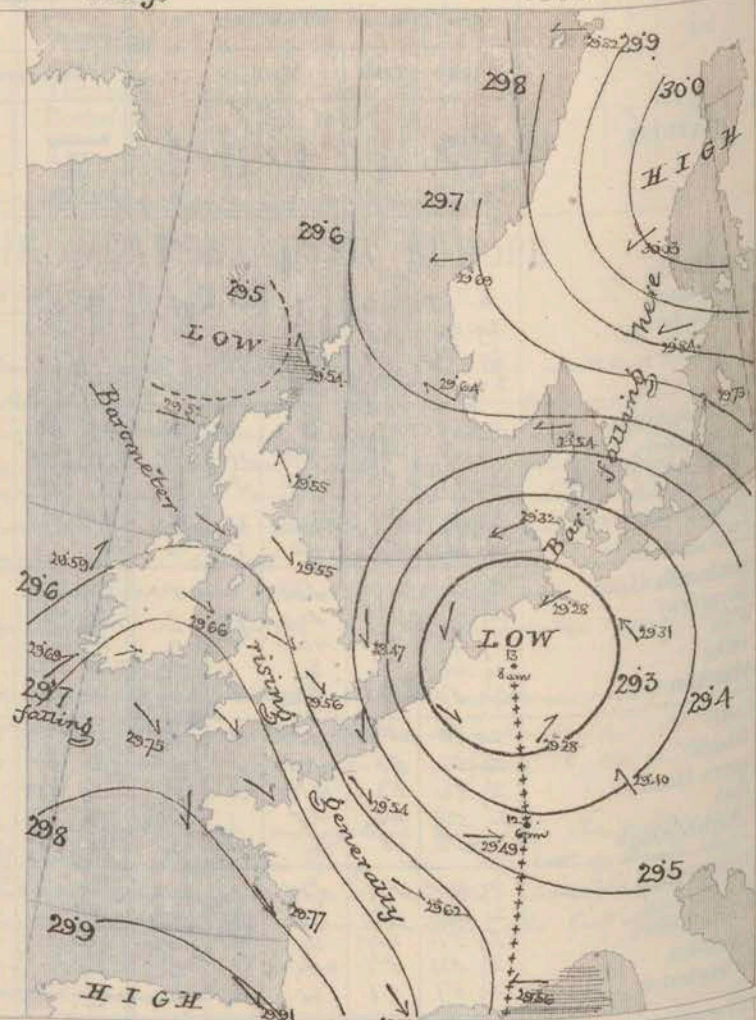
▨ = Rough. ▨ = High.

MEAN HEIGHT OF THE BAROMETER

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

During the 15 Years: 1871—1885.

STATIONS.	MEAN READINGS.
Sumburgh Head	29.878
Stornoway	29.893
Wick	29.906
Nairn	29.918
Aberdeen	29.922
Leith	29.942
Shields	29.955
York	29.974
Loughborough	29.984
Ardrossan	29.949
Donaghadee	29.959
Holyhead	29.971
Liverpool	29.974
Parsonstown	29.976
Valencia	29.984
Roche's Point	29.979
Pembroke	29.977
Scilly	29.997
Jersey	30.002
Hurst Castle	29.994
Dover	29.985
LONDON	29.995
Oxford	29.998
Cambridge	29.989
Yarmouth	29.980



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.

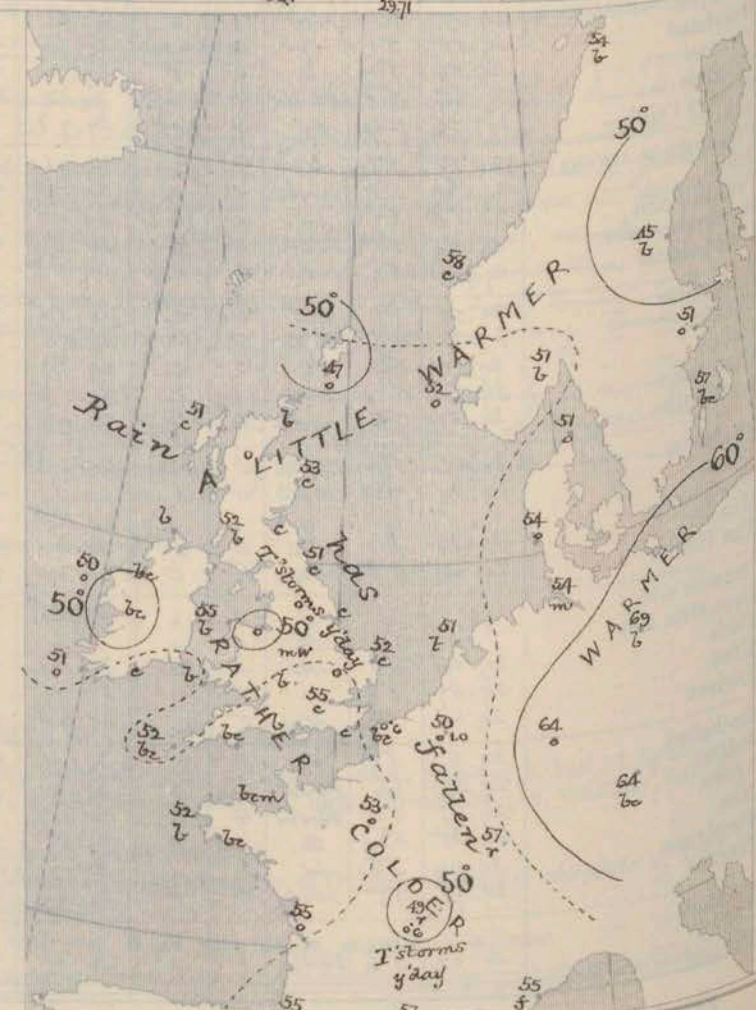
RAINFALL—A dotted line separates the districts in which rain has fallen from those where there has been none. Falls of 0.5 in. or more are quoted in figures.

MEANS OF TEMPERATURE IN SHADE, AND RAINFALL.

(For the month of May.)

STATIONS.	TEMPERATURE.				RAINFALL. (Inches.)
	Daily Max.	Daily Min.	Dry.	Wet.	
Sumburgh Head	50.2	30.9	45.9	43.9	1.71
Stornoway	52.9	40.7	48.4	46.0	2.64
Wick	53.7	40.4	47.9	45.2	1.62
Nairn	55.9	42.0	48.4	45.0	1.87
Aberdeen	55.0	41.7	48.9	45.3	1.90
Leith	57.8	42.2	50.1	46.7	1.65
Shields	54.2	43.1	49.1	45.9	1.75
York	59.3	41.6	49.6	46.4	1.71
Loughborough	61.5	42.2	51.2	47.6	1.90
Ardrossan	56.2	43.7	49.3	46.4	2.20
Donaghadee	55.9	43.6	49.5	47.3	2.15
Holyhead	58.0	46.1	50.3	47.8	1.88
Liverpool	57.5	44.7	50.0	46.8	1.74
Parsonstown	59.3	42.3	51.0	47.7	2.23
Valencia	58.1	45.9	52.8	49.5	2.89
Roche's Point	59.6	46.0	51.7	48.7	3.05
Pembroke	55.1	46.0	49.9	47.4	1.97
Scilly	58.3	48.2	52.7	50.3	1.66
Jersey	59.3	47.1	53.5	50.4	1.74
Hurst Castle	55.3	45.3	51.3	49.7	1.70
Dover	56.8	46.8	52.8	49.2	1.77
LONDON	62.1	44.1	52.4	48.4	1.73
Oxford	60.5	43.9	50.6	47.4	1.85
Cambridge	61.7	41.8	51.3	48.1	1.76
Yarmouth	55.4	44.8	50.0	48.0	1.85

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



GENERAL SITUATION AT 8 A.M.

PRESSURE

Highest, 30.0 in: and upwards in Portugal, and also over the Gulf of Bothnia and the north of Sweden.
 Lowest, 29.3 in: and less, in a depression lying over Holland and the northwestern parts of Germany.
 Gradients moderate over Denmark, the Baltic and the southern parts of the North Sea, but slight elsewhere.
 Barometer falling decidedly over Denmark, North Germany and the south of Scandinavia, slightly at Valencia, but rising elsewhere.

TEMPERATURE

Highest, 63° at Berlin, 64° at Wiesbaden and Munich, 58° at Christiania, and 57° at Nîmes, Bingen, Belfast, and Cork.
 Lowest, 45° at Huesca, 47° at Lumburg, 49° at Amsterdam, Liverpool and Lyons, and 50° at Birmmham, Mullaghmore and Pembroke.
 The highest maxima registered over our Islands yesterday were 70° at Loughborough, and 68° at Oxford and Cambridge.

WIND

Light or moderate from the NWth over the greater part of England and France, but SWth or Sth in South Germany, and Eth or NEth over Scandinavia, Denmark, the Netherlands, and North Germany.
 Moderate from the SWth or Sth in Ireland, light and variable in Scotland.

WEATHER

Fine in most parts of the United Kingdom and also in Scandinavia and Germany.
 Breeze elsewhere, with rain at Belfast and Lyons and thunder at the Helder.
 Showers fell yesterday in many parts of Western Europe, thunderstorms occurred at York and Loughborough, and lightning was seen at Cambridge and Harmouth.

SEA

Rather rough at Lumburg Head, but slight or smooth elsewhere.

PROBABLE CHANGES IN SYSTEM NOW PREVALENT

The depression over Holland and Germany seems likely to move slowly in a northwesterly direction over the North Sea, but as the system is apparently beginning to fill up it is not likely to seriously affect the weather over our Islands.

The fresh fall of the barometer which has set in at Valencia and the curvilinear motion at Mullaghmore seem to indicate the approach of a disturbance from the westward, and a general backing of the wind is probable on our western and southern coasts.

FORECASTS

For the 24 hours ending at NOON on 14th May 1890.

DISTRICTS.	FORECASTS.	DISTRICTS.	FORECASTS.
0 SCOTLAND NORTH	S th and SE th winds, light; fair generally.	6 SCOTLAND WEST	Wind backing to the S th and freshening; fine to cloudy and some rain.
1 SCOTLAND EAST		7 ENGLAND N.W.	
2 ENGLAND N.E.		8 ENGLAND S.W.	
3 ENGLAND EAST	Same as No 5	9 IRELAND NORTH	S th and SE th winds, freshening; fair to dull and some rain.
4 MIDLAND COUNTIES		10 IRELAND SOUTH	
5 ENGLAND SOUTH	NW th winds, backing to the SW th or S th ; fair generally.		
		WARNINGS	NONE ISSUED.

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

YESTERDAY'S 2 P.M. REPORTS.

THER: WIND								THER: WIND							
BAR:		D.	W.	D.	F.	WEA	SEA	BAR:		D.	W.	D.	F.	WEA.	SEA
Skudesnaes ...	29.66	51	48	S	6	0	4	Holyhead ...	29.50	54	51	SW	4	cm	4
Sumburgh Head ...	29.37	48	48	SW	1	m	5	Valencia ...	29.58	55	52	W	4	cm	3
Stornoway ...	29.40	51	51	SW	4	T	4	Scilly ...	29.61	56	53	WNW	2	bc	3
Aberdeen ...	29.46	55	51	S	2	C	4	Jersey ...	29.56	59	56	WNW	3	bc	1
Shields ...	29.51	59	54	ENE	3	C	2	Dungeness ...	29.51	55	53	ENE	3	C	2
Ardrossan ...	29.48	55	53	SW	2	0	1	London ...	29.53	63	56	ENE	1	C	3
Malin Head ...	29.48	50	49	WNW	1	0	1	Yarmouth ...	29.55	54	52	NE	3	C	0
Mullaghmore ...	29.49	53	48	SW	3	0	2	Rochefort ...	29.61	58	55	NW	5	0	0
Belmullet ...	29.58	52	50	WNW	3	0	*								

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

Weather fine and bright over Scandinavia, Finland, and the southern part of Russia, as well as over the western parts of England; cloudy and very changeable elsewhere, with rain over the Elbe-Rhine and Shetland Islands, and very generally over the south of France. Considerable rainfall over the last named regions later and smaller quantities in Ireland and Scotland generally; thunder and lightning in several places.

Temperature rising over England and the north of France and also over Germany, Austria and the north of Italy, changing irregularly elsewhere. Morning readings exceeding 70° at Liphorn, Florence and Pesina, and exceeding 60° at most of the Mediterranean stations and over North Germany, lower elsewhere. Below 40° at Archangel and as low as 41° at Habaranda, 44° at St Petersburg and Kharkov, and 47° to 49° in the northeast of Scotland. Rising later to between 60° and 70° over England, and to 80° or more in Northern Germany.

Wind mainly SE over central, eastern and northern Europe, N and NW over the Bay of Biscay and Spain. Very light and variable over the United Kingdom, NE to N in the north of France; complete cyclonic circulation over Mediterranean, Italy, and south of France. Freshening from the N at most of the French stations later. No important change in our Islands.

Barometer highest, 29.8 ins. to 30.2 ins. and more, over Scandinavia, the Baltic, Russia, Poland and southeastern Europe; 29.7 ins. to 29.9 ins. over the western part of the Spanish Peninsula, and apparently still higher to the westward of the Portuguese coast. Lowest, 29.4 ins. and less, in a depression lying near Toulon, and 29.4 ins. and less, in a shallower disturbance off the north of Scotland. Latter disturbance passing off later, while that in the south moved northwards over the east 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 *Wednesday, 14th May, 1890.*
 Issued by the Meteorological Office, 63, Victoria Street, London. *R. H. SCOTT, Secretary.*

STATIONS.	YESTERDAY EVENING.					8 A.M. TO DAY.										PAST 24 HOURS.		
	BAROM.	TEMP.	WIND.		Weather.	BAROMETER.		SHADE TEMP.			WIND.		Weather.	Sea. (0 to 3.)	SHADE TEMP.		Amount of Rainfall.	
	Reading at 32° F. and Sea Level.	Dry.	Dirce.	Force. (0 to 12.)		Reading at 32° F. and Sea Level.	Difference from 8 a.m. yesterday.	Dry.	Wet.	Difference from 8 a.m. yesterday.	Dirce.	Force. (0 to 12.)			Max.	Min.		
SCANDINAVIA.																		
Haparanda ...	30.02	44	Z	0	c	30.05	-.05	45	45	+1	S	2	bc	*	59	30	-	
Hernösand ...	29.95	48	ESE	2	c	29.92	-.11	49	44	+4	ESE	2	b	*	59	32	-	
Stockholm ...	29.78	49	E	4	b	29.74	-.10	55	50	+4	E	6	b	*	63	41	-	
Wisby ...	29.66	53	SSE	4	b	29.66	-.07	59	56	+2	S	4	o	*	63	46	-	
Bodo ...	29.85	54	E	2	bc	29.76	-.06	57	48	+3	E	2	c	1	57	45	-	
CHRISTIANIA.																		
Christiansund ...	29.59	63	ESE	3	b	29.46	-.23	61	53	+3	ESE	7	b	3	63	55	-	
Skudesnaes ...	29.51	56	N	1	r	29.45	-.19	55	52	+3	Z	0	o	2	63	52	-	
Christiania Fjord (Færder) ...	29.57	56	ESE	6	b	29.55	-.15	52	51	+1	NNE	5	o	2	55	?	-	
Skagen (The Scaw) ...	29.46	56	ESE	2	bc	29.43	-.11	53	52	+2	E	2	c	2	64	50	-	
Fanø ...	29.34	55	Z	0	bc	29.39	+0.07	54	54	0	SSE	4	m	*	70	54	-	
SCOTLAND.																		
Sumburgh Head ...	29.52	46	SSE	2	b	29.43	-.11	47	47	0	SSE	1	o	4	50	44	-	
Stornoway ...	29.40	52	SW	6	o	29.42	-.10	48	48	-3	SW	3	o	3	55	44	0.05	
Wick ...	29.45	52	S	2	c	29.48	-.04	47	45	-7	NW	1	b	1	58	43	0.25	
Nairn ...	29.43	51	Z	0	c	29.48	-.06	51	46	0	WSW	2	b	1	60	45	0.03	
Aberdeen ...	29.50	46	SSE	8	bc m	29.43	-.12	52	46	-1	WSW	2	bc	3	54	45	0.07	
ENGLAND.																		
Leith ...	29.50	61	W	2	bc	29.57	+.00	51	46	-3	W	4	bc	*	65	43	0.01	
Shields ...	29.54	52	E	1	o	29.63	+.08	51	46	0	WNW	3	c	2	57	43	-	
Spurn Head ...	29.55	53	WSW	1	c	29.69	+.14	51	47	-3	W	5	bc	3	57	46	-	
York ...	29.56	59	W	2	b	29.71	+.14	51	46	-2	W	3	b	*	65	44	-	
Loughborough ...	29.61	59	W	3	b	29.77	+.19	53	48	-1	WNW	4	bq	*	63	46	-	
IRELAND.																		
Ardrossan ...	29.51	54	SW	3	c	29.60	+.01	49	47	+3	SW	4	b	3	55	45	0.09	
Malin Head ...	29.42	46	SSW	5	qf	29.54	-.05	49	45	0	SW	5	bcp	3	56	44	0.04	
Mullaghmore ...	29.47	51	WSW	6	c	29.61	-.01	49	45	-1	SW	5	c	4	53	43	0.02	
Belmullet ...	29.47	51	WSW	5	c	29.61	+.02	49	45	-1	W	6	qf	*	51	45	0.20	
Donaghadee ...	29.52	52	SW	4	o	29.66	+.03	51	48	0	SW	4	b	2	61	47	0.03	
BRITISH ISLANDS.																		
Liverpool (Bidston) ...	29.63	54	WNW	2	b	29.74	+.12	52	46	+3	WSW	4	b	4	56	46	0.01	
Holyhead ...	29.62	51	SSW	4	c	29.75	+.09	50	46	-5	WSW	5	bq	5	58	44	0.10	
Parsonstown ...	29.56	51	Z	0	c	29.75	+.05	48	45	-1	SW	2	c	*	56	41	-	
Valencia ...	29.65	53	WSW	5	bc m	29.80	+.11	49	46	-2	SW	5	cph	6	55	43	0.27	
Roche's Point ...	29.61	55	W	4	b	29.82	+.11	52	47	0	WSW	4	bc	4	56	44	0.10	
EUROPE.																		
Pembroke (St. Ann's Hd.) ...	29.68	50	SSW	4	o	29.85	+.14	50	48	0	WSW	4	bc	4	53	48	0.03	
Scilly ...	29.75	53	SW	5	o	29.92	+.17	53	49	+1	WSW	5	bc	4	57	49	0.02	
Prawle Point ...	29.76	51	W	5	bc	29.93	+.23	51	48	-1	W	5	b	3	57	44	0.02	
Jersey (St. Aubin's) ...	29.80	53	WNW	4	c	29.97	+.28	54	50	0	W	4	bc m	3	57	48	0.02	
Hurst Castle ...	29.70	60	WNW	5	b	29.89	+.28	54	51	-1	WNW	5	bc	2	64	50	-	
FRANCE AND BELGIUM.																		
Dungeness ...	29.58	59	N	4	o	29.77	+.26	51	51	-6	WSW	4	r	3	65	47	0.02	
London ...	29.63	61	WNW	3	bc	29.82	+.26	54	47	-1	W	3	b	*	65	47	-	
Oxford ...	29.69	51	WSW	3	b	29.84	+.25	51	46	-3	WNW	3	b	*	63	47	-	
Cambridge ...	29.60	60	NW	1	bc	29.79	+.23	54	48	0	NW	2	b	*	63	43	-	
Yarmouth ...	29.54	58	WNW	3	c	29.72	+.25	53	50	+1	NW	4	c	3	60	44	-	
GERMANY.																		
Cuxhaven ...	29.26	59	W	4	o	29.39	+.11	52	51	-2	W	6	o	*	72	50	-	
Berlin ...	29.38	69	SW	3	b	29.48	+.17	57	55	-12	NW	3	r	*	82	55	-	
Wiesbaden ...	*	*	*	*	*	29.78	+.30	55	52	-9	W	4	o	*	75	52	0.43	
Munich ...	29.62	50	SW	4	c	29.86	+.46	49	48	-15	SW	4	r	*	68	45	1.65	
The Helder ...	29.45	69	NW	4	o	29.67	+.41	51	48	0	W	3	b	3	52	48	-	
NETHERLANDS.																		
Brussels (9 a.m.) ...	*	*	*	*	*	?	?	50	49	-2	W	4	o	*	63	48	-	
Cape Gris Nez ...	?	52	NW	4	o	?	?	50	49	-2	W	4	o	*	63	48	-	
Paris ...	29.72	58	W	3	bc	29.95	+.41	51	48	-2	SSW	3	c	*	61	42	-	
Brest ...	29.86	55	WNW	3	o	30.00	+.23	53	50	+1	WNW	3	c	?	?	?	-	
Lorient ...	29.90	54	WNW	5	c	30.00	+.22	51	49	0	NW	4	b	4	57	50	-	
SPAIN.																		
Roche fort ...	29.86	55	NW	5	o	30.03	+.26	58	54	+3	W	4	o	?	?	52	-	
Belfort ...	29.74	53	W	1	r	29.93	+.44	50	41	-7	W	1	o	*	62	47	0.16	
Lyons ...	29.80	55	WNW	2	b	30.05	+.43	49	45	0	N	3	bc	*	58	47	0.58	
Nice ...	29.63	55	W	4	c	29.78	+.22	53	52	-2	SE	4	o	3	63	50	0.08	
Perpignan ...	29.84	61	NW	6	b	30.06	+.35	58	51	+1	WNW	3	bc	*	67	54	-	
Barritz ...	30.03	55	WNW	5	o	30.14	+.23	55	52	0	W	5	r	3	57	52	0.08	
PORTUGAL.																		
Corunna ...	*	*	*	*	*	?	?	50	49	-2	W	4	o	*	63	48	-	
Lisbon ...	30.13	55	NW	3	b	30.17	+.09	55	53	-1	N	3	b	5	61	52	-	

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

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

WEATHER CHARTS

for 8 a.m. on

WEDNESDAY, 14TH MAY.

BAROMETER, WIND AND SEA.

EXPLANATION OF MAP.

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

Changes since previous morning are stated in words.

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

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

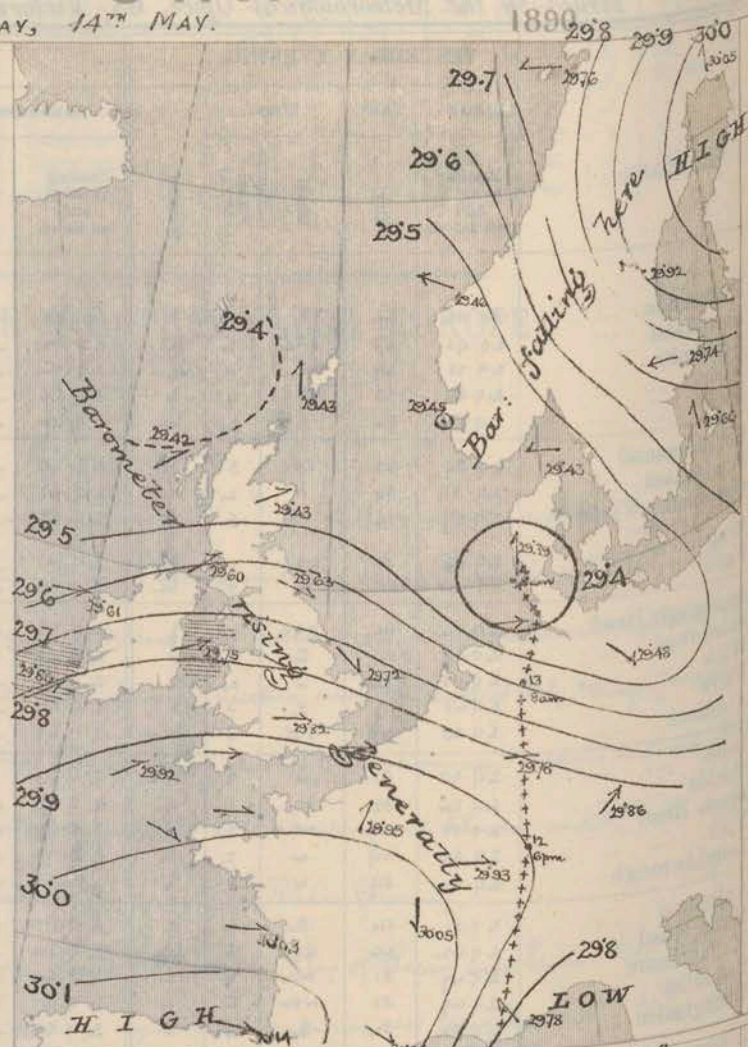
SEA DISTURBANCE—Where considerable, is shown thus:

▨ = Rough. ▨ = High.

MEAN HEIGHT OF THE BAROMETER

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

STATIONS.	MEAN READINGS.
	ins.
Sumburgh Head	29.878
Stornoway	29.893
Wick	29.906
Nairn	29.918
Aberdeen	29.922
Leith	29.942
Shields	29.955
York	29.974
Loughborough	29.984
Ardrossan	29.989
Donaghadee	29.959
Holyhead	29.971
Liverpool	29.974
Parsonstown	29.976
Valencia	29.984
Roche's Point	29.979
Pembroke	29.977
Silly	29.997
Jersey	30.002
Hurst Castle	29.994
Dover	29.985
LONDON	29.995
Oxford	29.993
Cambridge	29.989
Yarmouth	29.980



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.

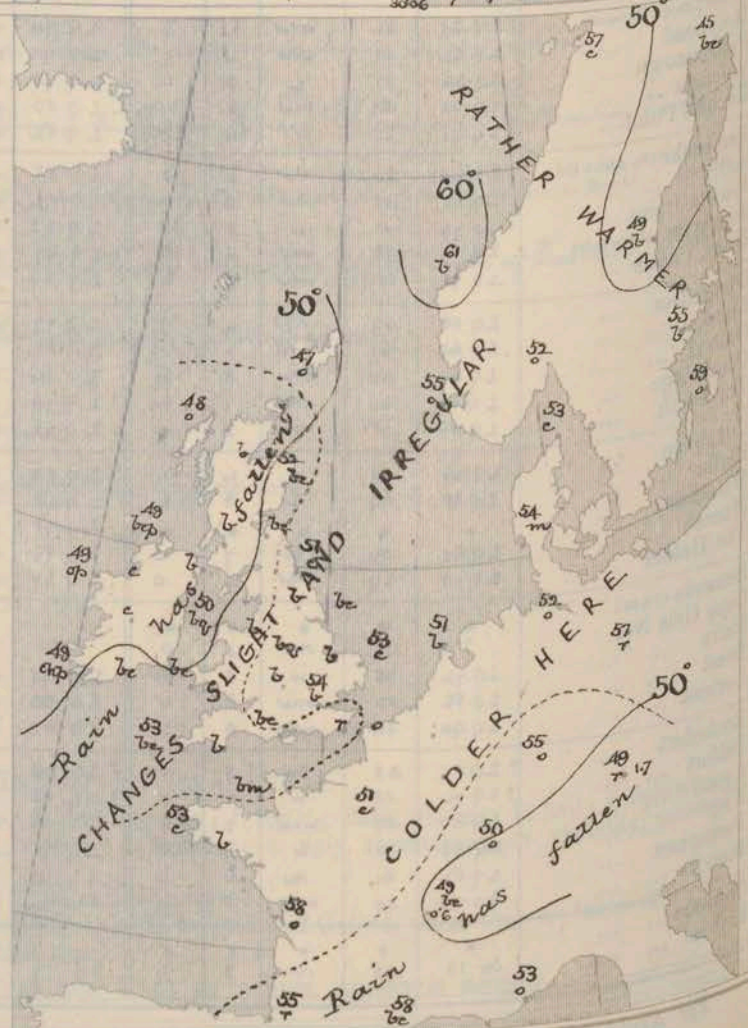
RAINFALL—A dotted line separates the districts in which rain has fallen from those where there has been none. Falls of 0.5 in. or more are quoted in figures.

MEANS OF TEMPERATURE IN SHADE, AND RAINFALL.

(For the month of May.)

STATIONS.	TEMPERATURE.				RAINFALL. (Inches.)
	Daily Max.	Daily Min.	at 8 a.m. Dry.	Wet.	
Sumburgh Head	50.2	39.9	45.9	43.9	1.71
Stornoway	52.9	40.7	48.4	46.0	2.64
Wick	53.7	40.4	47.9	45.2	1.62
Nairn	55.9	42.6	48.4	45.0	1.67
Aberdeen	55.0	41.7	48.9	45.3	1.90
Leith	57.8	42.2	50.1	46.7	1.63
Shields	54.2	43.1	49.1	45.9	1.75
York	59.3	41.6	49.6	46.4	1.71
Loughborough	61.6	42.2	51.2	47.6	1.96
Ardrossan	56.2	43.7	49.3	46.4	2.20
Donaghadee	55.9	43.6	49.6	47.3	2.16
Holyhead	56.0	46.1	50.3	47.8	1.88
Liverpool	57.5	44.7	50.6	46.8	1.74
Parsonstown	59.3	42.3	51.0	47.7	2.23
Valencia	58.1	45.9	52.9	49.5	2.89
Roche's Point	59.6	46.6	51.7	48.7	3.05
Pembroke	55.4	46.6	49.9	47.4	1.97
Silly	56.3	45.2	52.7	50.3	1.66
Jersey	59.3	47.1	53.5	50.4	1.74
Hurst Castle	58.3	45.3	51.3	49.7	1.50
Dover	56.8	40.8	52.8	49.2	1.17
LONDON	62.1	44.1	52.4	48.4	1.73
Oxford	60.5	43.9	50.6	47.4	1.83
Cambridge	61.7	41.8	51.3	48.1	1.76
Yarmouth	55.4	44.8	50.5	48.0	1.85

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 in Spain; 30.0 ins. and upwards in the north of Sweden.
Lowest 29.4 ins. and less in a depression lying over the south of Denmark, and also in another disturbance lying to the northward of Scotland.

TEMPERATURE

Gradients slight generally. Barometer rising at all but the Scandinavian stations.
Highest 61° at Christiansund, 59° at Wisby, 58° at Rochefort and Perpignan, 57° at Bode and Berlin, and 55° at Stockholm, Skudesnaes, Wiesbaden, Biarritz and Lisbon.
Lowest 45° at Haparanda, 47° at Lumburgh Head and Wick, and 48° at Stornoway and Parsonstown.
 The highest temperature registered over our Islands yesterday was 65° at Leith, York, Dungeness and in London, but at Berlin the thermometer rose to 82°.

WIND

Light to fresh from the SW^{wt} in the west and north of our Islands, and from the W^{wt} over France, the Netherlands and the greater part of England.

WEATHER

E³ at most of the Scandinavian stations; strong in force at Stockholm and Christiansund.
 Fine generally, but dull in Germany and the east and southwest of France, with rain at Berlin, Munich and Biarritz.
 Showers of rain or hail are falling in the west of Ireland.
 Since yesterday morning rain has fallen in all the more western and northern parts of the United Kingdom, and also in France and Germany.

SEA

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

PROBABLE CHANGES IN SYSTEM NOW PREVALENT

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

FORECASTS

For the 24 hours ending at NOON on 15TH MAY 1890.

DISTRICTS.

FORECASTS.

DISTRICTS.

FORECASTS

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

W³ and SW³ winds, light; fair generally, but local showers.
 W³ winds, moderate or fresh, fair generally, but perhaps local showers.

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

Same as N^o. 0. to 2.

SW⁴ winds, moderate or fresh, fair to showery.

SW⁴ to S³ winds, fresh or strong; changeable, some rain.

WARNINGS

None Issued.

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

YESTERDAY'S 2 P.M. REPORTS.

	BAR:	THER:		WIND		WEA.	SEA		BAR:	THER:		WIND		WEA.	SEA
		D.	W.	D.	F.					D.	W.	D.	F.		
Skudesnaes ...	29.55	62	53	E	2	0	3		Holyhead ...	29.66	57	48	SW	4	5
Sumburgh Head ...	29.54	48	47	SSE	2	0	5		Valencia ...	29.60	50	49	W	5	3
Stornoway ...	29.45	55	53	S	5	60	4		Scilly ...	29.78	57	53	WSW	5	3
Aberdeen ...	29.53	51	49	SSE	2	0	3		Jersey ...	29.76	57	52	WSW	4	2
Shields ...	29.55	53	50	E	2	C	2		Dungeness ...	29.55	65	57	N	4	2
Ardrossan ...	29.55	53	50	SW	3	60	2		London ...	29.59	66	56	WSW	2	4
Malin Head ...	29.47	55	52	S	4	0	2		Yarmouth ...	29.50	58	53	WSW	5	4
Mullaghmore ...	29.47	52	47	S	6	0	4		Rochefort ...	29.53	60	54	NW	5	4
Belmullet ...	29.43	50	49	S	4	0	4								

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

Weather improving somewhat decidedly over the greater part of England and France, and continuing fine over southeastern, eastern and northern Europe, very changeable and unsettled elsewhere, with rain in the south of France and north of Italy, a thunderstorm at the Relder, and wet mist at the mouth of the Elbe. Heavy rain later over the southeastern part of France and south Germany, and showers in the west and north of the British Islands, hail at Valencia.

Temperature exceeding 60° over N. & W. Germany, Austria, the greater part of southeastern Europe, and the southern shores of the Mediterranean; above 50° over western Europe generally, as well as in Norway, but below 50° over Finland and the greater part of Russia; lowest of all 24° at Archangel. Rising during the day to between 55° and 65° over the British Isles and France, to 70° or more at Faro and over Germany, and to 82° at Berlin.

Wind still SE⁴ over southeastern and central Europe, and E⁴ in the north; NW⁴ over Spain, France and England, W⁴ in the north of Scotland, and SW⁴ in Ireland. The SW⁴ current spreading to all our western and northern stations later, and a strong wind from the same quarter setting in over Germany.

Barometer. Highest 29.9 ins. to 30.2 ins. and more over the Black Sea, Russia and northern Europe; 29.8 ins. to 30.1 ins. over the Bay of Biscay, the Spanish Peninsula, Morocco and Algeria. Lowest 29.2 ins. and less in a depression over the Netherlands; 29.5 ins. and less in another near Toulon, and below 29.6 ins. over the southeast and east of France, the whole of Germany, the North Sea, the East of England, and the whole of Scotland. The deeper depression moving to Holstein later, and a new one appearing off our northwest coast.

EXPLANATION OF COLUMNS GIVEN ON PAGE 1.

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

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

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

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

DAILY WEATHER REPORT.

for *Thursday, 15th May, 1890.*
 Issued by the Meteorological Office, 63, Victoria Street, London. R. H. SCOTT, Secretary.

STATIONS.	YESTERDAY EVENING.					8 A.M. TO DAY.										PAST 24 HOURS.		
	BAROM.	TEMP.	WIND.		Weather.	BAROMETER.		SHADE TEMP.			WIND.		Weather.	Sea. (0 to 3.)	SHADE TEMP.		Amount of Rainfall.	
	Reading at 32° F. and Sea Level.	Dry.	Dirce.	Force, (0 to 12.)		Reading at 32° F. and Sea Level.	Difference from 8 a.m. yesterday.	Dry.	Wet.	Difference from 8 a.m. yesterday.	Dirce.	Force, (0 to 12.)			Max.	Min.		
SCANDINAVIA.																		
Haparanda ...	29.95	50	E	2	O	29.93	- .12	46	45	+ 1	S	4	O	*	61	34	-	
Hernösand ...	29.88	47	W	0	O	29.89	- .03	49	45	0	ESE	2	O	*	68	39	-	
Stockholm ...	29.77	51	E	2	T	29.77	+ .03	50	53	+ 4	E	4	O	*	64	45	-	
Wisby ...	29.70	55	SSE	4	O	29.75	+ .04	55	54	- 4	N	2	bc	*	68	50	0.20	
Bodo ...	29.71	55	ESE	4	O	29.74	- .02	58	50	+ 1	ESE	2	O	1	59	48	-	
CHRISTIANIA.																		
Christiansund ...	29.52	50	WSW	6	bc	29.75	+ .29	51	50	- 10	?	5	T	3	72	50	0.20	
Skudenes ...	29.67	48	W	2	O	29.84	+ .39	48	46	- 7	S	2	C	2	55	45	0.67	
Christiania Fjord (Færdor) ...	29.58	55	N	3	C	29.69	+ .14	51	51	- 1	ESE	4	m	2	55	48	0.24	
Skagen (The Seaw) ...	29.57	56	S	1	O	29.72	+ .29	48	46	- 5	NW	4	C	3	68	46	0.04	
Faro ...	29.78	47	WSW	5	O	29.90	+ .51	52	50	- 2	WSW	5	O	*	55	46	-	
IRELAND.																		
Samburgh Head ...	29.56	48	WSW	1	O	29.74	+ .31	48	45	+ 1	SSW	1	O	3	52	39	0.05	
Stornoway ...	29.52	49	SW	6	Op	29.61	+ .19	48	47	0	SW	6	bc	5	58	41	0.06	
Wick ...	29.56	52	WSW	2	bc	29.74	+ .26	50	45	+ 3	SW	3	O	2	57	42	0.05	
Nairn ...	29.59	52	W	4	C	29.71	+ .23	52	46	+ 1	WSW	4	O	3	57	36	-	
Aberdeen ...	29.65	54	SW	4	O	29.80	+ .37	50	45	- 2	SSW	2	bc	2	60	41	-	
BRITISH ISLANDS.																		
Leith ...	29.69	52	W	4	O	29.81	+ .24	54	47	+ 3	SSW	3	bc	*	60	40	0.18	
Shields ...	29.74	56	WSW	4	C	29.89	+ .26	49	46	- 2	SSE	3	C	2	59	44	-	
Spurn Head ...	29.85	55	W	4	bc	29.99	+ .30	55	51	+ 4	SW	4	bc	3	58	45	-	
York ...	29.84	56	W	3	C	29.96	+ .25	51	48	0	S	2	C	*	61	43	-	
Loughborough ...	29.92	52	WSW	3	C	30.02	+ .25	51	48	- 2	SSW	3	C	*	62	42	0.03	
SCOTLAND.																		
Ardrossan ...	29.72	49	SSW	3	O	29.79	+ .19	49	48	0	S	4	O	3	53	46	-	
Malin Head ...	29.61	50	SW	6	cyp	29.68	+ .14	48	45	- 1	SSW	5	C	4	54	43	0.01	
Mullaghmore ...	29.69	49	SW	4	C	29.73	+ .12	48	44	- 1	SSW	6	bc	5	53	43	0.05	
Belmullet ...	29.69	48	WSW	6	Cp	29.71	+ .10	50	45	+ 1	WSW	4	bc	*	50	45	0.15	
Donaghadee ...	29.74	54	SW	4	bc	29.80	+ .14	50	48	- 1	SW	4	O	2	58	48	0.08	
ENGLAND.																		
Liverpool (Bidston) ...	29.86	52	SW	5	bc	29.92	+ .18	51	47	- 1	SSW	3	O	3	57	47	0.01	
Holyhead ...	29.84	51	SW	5	C	29.87	+ .12	49	48	- 1	SSW	5	pmg	5	55	47	0.02	
Parsonstown ...	29.81	48	W	0	C	29.83	+ .08	48	47	0	SW	2	T	*	54	42	0.09	
Valencia ...	29.84	50	SW	6	Cp	29.85	+ .05	51	47	+ 2	SW	5	bc	5	54	43	0.18	
Roche's Point ...	29.89	52	WSW	5	Cpht	29.87	+ .05	50	48	- 2	SW	3	C	4	55	46	0.20	
WALLES.																		
Pembroke (St. Ann's Hd.) ...	29.93	50	SW	5	bc	29.94	+ .09	50	49	0	SSW	6	cyp	6	51	48	0.10	
Scilly ...	30.04	54	WSW	4	C	30.00	+ .08	54	52	+ 1	SW	4	C	5	58	49	-	
Prawle Point ...	30.05	51	W	5	bc	30.10	+ .17	52	50	+ 1	SW	4	C	3	54	48	-	
Jersey (St. Aubin's) ...	30.11	55	W	4	O	30.17	+ .20	53	50	- 1	SSW	4	cm	3	57	48	-	
Hurst Castle ...	30.04	54	W	6	bc	30.14	+ .25	52	51	- 2	WSW	5	Cg	3	60	50	-	
FRANCE AND BELGIUM.																		
Dungeness ...	29.96	54	W	6	O	30.12	+ .35	52	50	+ 1	W	4	C	3	65	47	-	
London ...	29.96	59	W	2	bc	30.09	+ .27	54	50	0	WSW	2	O	*	62	43	-	
Oxford ...	30.02	50	SW	2	O	30.07	+ .23	52	49	+ 1	SSW	3	C	*	61	43	-	
Cambridge ...	29.98	53	WSW	2	O	30.09	+ .30	52	49	- 2	SW	2	C	*	62	39	-	
Yarmouth ...	29.89	60	WSW	3	O	30.07	+ .35	55	50	+ 2	WSW	3	O	2	61	44	-	
GERMANY.																		
Cuxhaven ...	29.74	51	WSW	6	O	29.98	+ .59	53	52	+ 1	WSW	3	O	*	54	51	-	
Berlin ...	29.78	52	WSW	5	T	30.02	+ .54	53	48	- 4	WSW	5	O	*	63	45	0.59	
Wiesbaden ...	*	*	*	*	*	30.20	+ .42	53	50	- 2	W	3	C	*	63	43	0.04	
Munich ...	30.08	51	SW	4	C	30.24	+ .38	50	48	+ 1	W	4	T	*	55	46	0.12	
The Helder ...	29.95	51	SW	1	O	30.08	+ .41	52	49	+ 1	W	2	O	2	54	50	-	
NETHERLANDS.																		
Brussels (9 a.m.) ...	*	*	*	*	*	30.18	?	51	49	0	WSW	2	C	*	58	42	0.12	
Cape Gris Nez ...	?	52	W	5	O	?	?	50	48	0	W	4	C	3	55	48	-	
Paris ...	30.10	57	NW	2	bc	30.23	+ .28	51	47	0	SW	1	bc	*	65	37	-	
Brest ...	30.12	56	W	4	C	30.10	+ .10	54	51	+ 1	SW	3	O	3	63	46	-	
Lorient ...	30.15	55	WSW	4	O	30.17	+ .17	52	49	+ 1	WSW	3	O	4	57	48	-	
FRANCE AND BELGIUM.																		
Roche fort ...	30.14	57	WSW	4	C	30.19	+ .16	54	50	- 4	S	1	O	2	61	45	-	
Belfort ...	30.03	52	W	1	O	30.17	+ .24	55	44	+ 5	W	1	O	*	64	50	-	
Lyons ...	30.13	57	NW	3	O	30.22	+ .17	54	50	+ 5	N	1	O	*	63	49	-	
Nice ...	29.97	56	SW	2	C	30.10	+ .32	57	55	+ 4	ESE	2	O	1	64	50	0.12	
Perpignan ...	30.11	66	NW	3	O	30.20	+ .14	61	55	+ 3	W	2	O	*	64	50	-	
Barritz ...	30.22	60	WSW	2	bc	30.22	+ .08	50	49	- 5	E	4	m	5	63	46	-	
ITALY.																		
Coronna ...	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	
Lisbon ...	30.15	39	WSW	4	O	30.14	- .03	58	55	+ 3	NNE	1	O	2	68	52	-	

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

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

WEATHER CHARTS

for 8 a.m. on

Thursday, 15th May,

1890.

BAROMETER, WIND AND SEA.

EXPLANATION OF MAP.

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

Changes since previous morning are stated in words.

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

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

SEA DISTURBANCE—Where considerable, is shown thus:

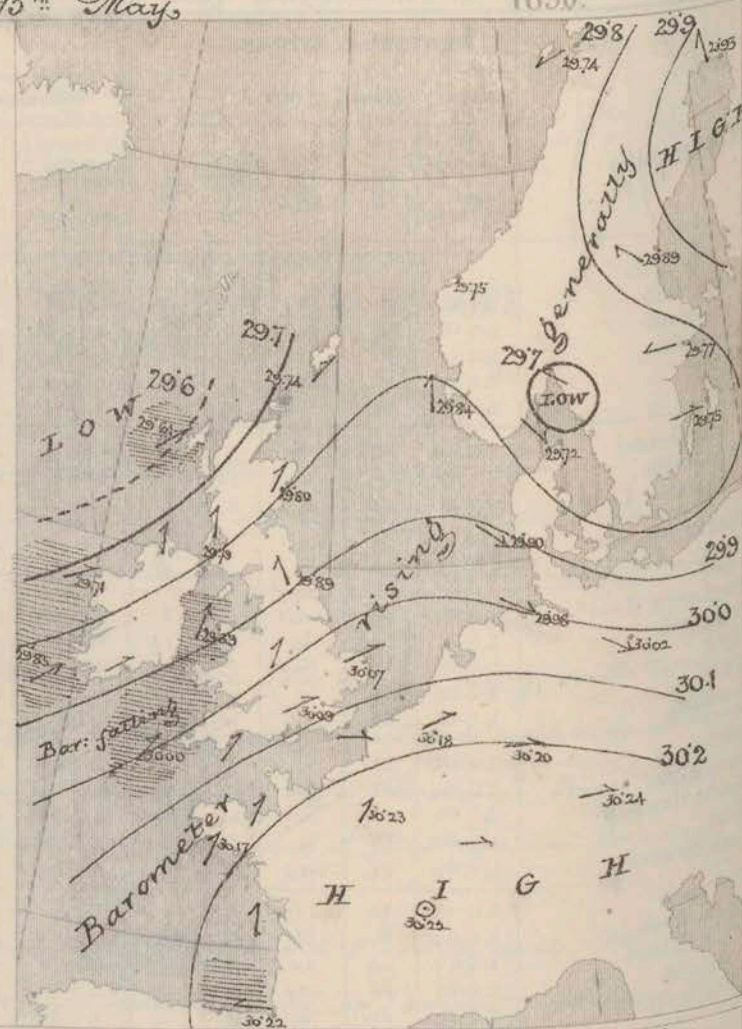
▨ = Rough. ▨ = High.

MEAN HEIGHT OF THE BAROMETER

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

During the 15 Years: 1871—1885.

STATIONS.	MEAN READINGS.
Sumburgh Head	29.878
Stornoway	29.893
Wick	29.906
Nairn	29.918
Aberdeen	29.922
Leith	29.943
Shields	29.955
York	29.974
Loughborough	29.984
Ardrossan	29.949
Donaghadee	29.959
Holyhead	29.971
Liverpool	29.974
Parsonstown	29.976
Valencia	29.984
Roche's Point	29.979
Pembroke	29.977
Sally	29.997
Jersey	30.002
Hurst Castle	29.994
Dover	29.985
LONDON	29.995
Oxford	29.993
Cambridge	29.989
Yarmouth	29.980



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.

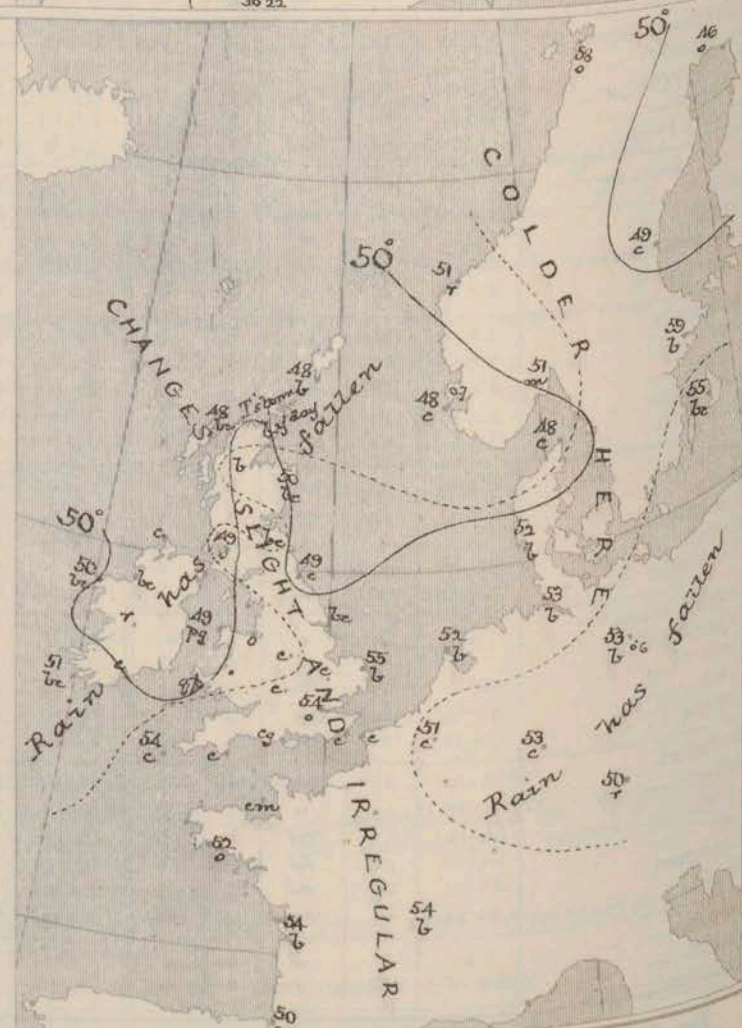
RAINFALL—A dotted line separates the districts in which rain has fallen from those where there has been none. Falls of 0.5 in. or more are quoted in figures.

MEANS OF TEMPERATURE IN SHADE, AND RAINFALL.

(For the month of May.)

STATIONS.	TEMPERATURE.				RAINFALL. (Inches.)
	Daily Max.	Daily Min.	at 8 a.m.		
			Dry.	Wet.	
Sumburgh Head.....	50.2	39.9	45.9	43.9	1.71
Stornoway	52.0	40.7	48.4	46.0	2.64
Wick	53.7	40.4	47.9	45.2	1.62
Nairn	55.9	42.0	48.4	45.0	1.67
Aberdeen	55.0	41.7	48.9	45.3	1.90
Leith	57.8	42.2	50.1	46.7	1.65
Shields	54.2	43.1	49.1	45.9	1.75
York	59.3	41.6	49.6	46.4	1.71
Loughborough	61.6	42.2	51.2	47.6	1.96
Ardrossan	56.2	43.7	49.3	46.4	2.20
Donaghadee.....	55.9	43.6	49.5	47.3	2.15
Holyhead.....	56.0	46.1	50.3	47.8	1.88
Liverpool.....	57.5	44.7	50.6	46.8	1.74
Parsonstown	59.3	42.3	51.0	47.7	2.23
Valencia	58.1	45.9	52.3	49.5	2.89
Roche's Point.....	59.6	46.0	51.7	48.7	3.05
Pembroke.....	55.1	46.0	49.9	47.4	1.97
Sally	56.3	48.2	52.7	50.3	1.66
Jersey	59.3	47.1	53.5	50.4	1.74
Hurst Castle	58.3	45.3	51.3	49.7	1.70
Dover	56.8	46.8	52.8	49.2	1.77
LONDON	62.1	44.1	52.4	48.4	1.73
Oxford	60.5	43.9	50.6	47.4	1.83
Cambridge.....	61.7	41.8	51.3	48.1	1.76
Yarmouth	55.4	44.8	50.5	48.0	1.85

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



GENERAL SITUATION AT 8 A.M.

PRESSURE

Highest 30.2 ins. and upwards in a large anticyclone lying over France and south Germany.
 Lowest 29.7 ins. and less in a small depression lying over the Skager Rack.
 Gradients moderate over the United Kingdom, slight elsewhere.
 Barometer rising generally, but falling a little at the mouth of the English Channel, and also at Lisbon.

TEMPERATURE

Highest 59° at Stockholm, 58° at Rode and Lisbon, and 55° at Whisby, Skaerø Head and Yarmouth, and 54° at Roskilde.
 Lowest 46° at Haparanda, 45° at Skagen, Skudenes, Lumburgh Head, Leranøy, Malin Head, Mullaghmore, Cambridge and in London.
 The highest maxima registered over our Islands yesterday were 65° at Dengenæs, and 62° at

WIND

SW^{ly} over our Islands and the north of France, light at our eastern stations, but fresh or strong in the west.
 Moderate from the Wnd over Denmark, Germany and the Netherlands.
 Light from the End or SEnd in Sweden and the north of Norway; variable in the central and southern parts of France.

WEATHER

Fine generally, but showery at some of our western stations; solar halos were reported at Hurst Castle and Oxford.
 Rain was falling at Christiansund and Munich.
 Showers fell yesterday at several of our western and northern stations, and thunder was heard at Wick.

SEA

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

PROBABLE CHANGES IN SYSTEM NOW PREVALENT

Generally fair weather is still probable in the eastern and south eastern parts of the Kingdom, but in the west and north the conditions are likely to remain under the influence of the depressions which are travelling northwards outside the Irish and Scotch coasts.

FORECASTS

For the 24 hours ending at NOON on 16TH MAY 1890.

DISTRICTS.

FORECASTS.

DISTRICTS.

FORECASTS

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

SW^{ly} winds, fresh or strong; fine to cloudy, and some rain.
 S^{ly} and SW^{ly} winds, moderate; fair generally, but perhaps local showers.
 SW^{ly} winds, fresh, fair generally, but local showers.

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

Same as Nos 1. to 4.
 S^{ly} and SW^{ly} winds, fresh or strong; changeable, showery.
 SW^{ly} winds, moderate, to S^{ly} strong; unsettled, some rain.
 None Issued.

WARNINGS

No. 1.—The South Cone, point downwards (↓), means that gales, or strong winds, are probable at first from the Southward (from S.E. round by S. to N.W.). Should it appear likely that a gale beginning from between W. and N.W. is likely to veer towards N. or N.E., the North Cone is hoisted in preference to the South Cone.
 No. 2.—The North Cone, point upwards (↑), means that gales, or strong winds, are probable, at first from the Northward (from N.W. round by N. to S.E.). Should it appear likely that a gale beginning from between E. and S.E. is likely to veer towards S. or S.W., the South Cone is hoisted in preference to the North Cone.

YESTERDAY'S 2 P.M. REPORTS.

	BAR:	THER:		WIND		WEA.	SEA		BAR:	THER:		WIND		WEA.	SEA
		D.	W.	D.	F.					D.	W.	D.	F.		
Skudesnaes ...	29.54	50	49	WSW	1	r	2		Holyhead ...	29.80	52	48	SW	5	5
Sumburgh Head ...	29.48	50	47	WSW	2	b	4		Valencia ...	29.82	47	46	WSW	6	6
Stornoway ...	29.46	50	49	SW	5	r	5		Scilly ...	29.98	57	53	WSW	5	3
Aberdeen ...	29.56	58	48	SW	5	bcg	3		Jersey ...	30.06	56	50	W	5	4
Shields ...	29.68	58	49	WSW	3	c	2		Dungeness ...	29.90	56	52	WSW	6	3
Ardrossan ...	29.64	53	50	W	4	bc	3		London ...	29.90	61	52	WSW	3	3
Malin Head ...	29.59	54	48	WSW	5	c	4		Yarmouth ...	29.83	61	51	W	4	3
Mullaghmore ...	29.60	48	44	SW	7	cg p	6		Rochefort ...	30.09	60	55	WSW	4	3
Belmullet ...	29.71	50	45	WSW	6	cp	*								

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

Weather fine generally over Russia, the Baltic, northern Europe, and over the greater part of our Islands, as well as on the western and southern shores of the Mediterranean; dull or cloudy elsewhere, with rain and hail in the west of Ireland, and at Berlin. Showers later at our western and northern stations and rain over Scandinavia and central Europe - rather heavy at Skudesnaes; thunder and lightning reported in Scotland.

Temperature fallen decidedly over central Europe; morning readings varying greatly between 51° to 68° at the Mediterranean stations and over central Europe, and exceeding 50° in nearly all parts of Spain, France, Great Britain and Norway, lower elsewhere. As low as 29° at Archangel, 47° at St. Petersburg and Sumburgh Head, and 49° at Kharkov. Rising later to between 60° and 72° at the Scandinavian stations, to between 55° and 65° over the British Islands and France, and to 68° at Lisbon, but falling again rather decidedly as night approached.

Wind continuing SE² to E⁴ over Russia, Poland, the Baltic, Sweden and Norway, and blowing strongest some of the coast stations; SW² to W⁴, moderate to strong over Ireland, England, France and the Netherlands, variable elsewhere. An independent cyclonic circulation prevailing over the Mediterranean and Italy, strong NW² winds at Toulon and Cagliari. Backing over the western part of the British Islands later, and increasing to a strong breeze in those regions generally.

Barometer highest 29.8 ins. to 30.4 ins. over Sweden, Finland and Russia, and 29.8 ins. to 30.2 ins. over France, Spain and the southern parts of our Islands. Lowest about 29.4 ins. off the northwest of Scotland, and also in a depression over Holstein; 29.8 ins. and less in two shallow depressions over the Gulf of Genoa and Gulf of Venice - Gradients moderate. Disturbance over Holstein moving northeast and falling up later, but new one approaching our own northwestern coasts.

EXPLANATION OF COLUMNS GIVEN ON PAGE 1.

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

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

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

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

DAILY WEATHER REPORT.

for FRIDAY 16th MAY 1890.

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

STATIONS.	YESTERDAY EVENING.					8 A.M. TO DAY.										PAST 24 HOURS.		
	BAROM.	TEMP.	WIND.		Weather.	BAROMETER.		SHADE TEMP.			WIND.		Weather.	Sea. (0 to 10.)	SHADE TEMP.			
	Reading at 32° F. and Sea Level.	Dry.	Dirce.	Force. (0 to 12.)		Reading at 32° F. and Sea Level.	Difference from 8 a.m. yesterday.	Dry.	Wet.	Difference from 8 a.m. yesterday.	Dirce.	Force. (0 to 12.)			Max.	Min.	Amount of Rainfall.	
SCANDINAVIA.																		
Haparanda ...	29.86	49	Z	0	c	29.88	— .05	50	48	+ 4	SE	2	0	*	57	41	—	
Hernösand ...	29.85	47	Z	0	c	29.41	— .18	51	47	+ 2	Z	0	0	*	64	43	—	
Stockholm ...	29.84	54	SE	2	bc	29.89	+ .12	56	51	— 3	W	4	c	*	68	48	—	
Wisby ...	29.84	48	WSW	4	b	29.91	+ .16	50	47	— 5	WNW	2	bc	*	68	46	—	
Bodö ...	29.81	53	Z	0	o	29.77	+ .03	60	52	+ 2	ENE	4	b	2	?	48	—	
CHRISTIANIA.																		
Christiansund ...	29.90	47	WSW	3	r	29.91	+ .16	50	47	— 1	SSE	1	0	2	?	46	0.51	
Skudesnaes ...	29.95	48	SSW	2	b	29.97	+ .13	48	46	0	SSE	4	0	3	57	46	—	
Christiania Fjord (Færdier)	29.80	54	WSW	4	b	29.94	+ .25	50	47	— 1	WSW	5	b	3	54	48	—	
Skagen (The Scaw)	29.89	48	W	5	b	30.02	+ .30	51	49	+ 3	W	3	b	3	54	45	—	
Fanø ...	30.07	47	W	4	b	30.07	+ .17	55	52	+ 3	W	4	b	*	55	46	—	
SCOTLAND.																		
Sumburgh Head	29.78	50	SSE	2	b	29.79	+ .05	50	48	+ 2	SSE	2	b	4	53	42	—	
Sornoway ...	29.68	51	SW	6	bc	29.69	+ .08	50	49	+ 2	SW	5	0	5	53	45	0.02	
Wick ...	29.45	50	W	1	b	29.78	+ .04	49	48	— 1	S	1	c	1	56	42	0.16	
Nairn ...	29.73	55	WSW	3	bc	29.75	+ .04	53	47	+ 1	WSW	3	c	1	56	39	0.01	
Aberdeen ...	29.81	48	SSE	3	bc	29.82	+ .02	50	47	0	S	3	c	2	54	42	0.03	
ENGLAND.																		
Leith ...	29.81	52	SW	2	bc	29.82	+ .01	50	47	— 4	S	1	0.2	*	57	45	0.14	
Shields ...	29.86	56	SW	4	c	29.88	— .01	50	48	+ 1	S	3	0	2	58	46	0.01	
Spurn Head ...	29.96	56	SSW	3	c	29.93	— .06	54	50	— 1	S	3	c	2	60	48	—	
York ...	29.94	56	SW	3	b	29.93	— .03	50	49	— 1	S	1	r	*	59	48	0.14	
Loughborough	29.98	57	SSW	3	c	29.94	— .08	51	49	0	SSE	2	0	*	62	47	—	
IRELAND.																		
Androssan ...	29.80	53	W	2	b	29.80	+ .01	49	47	0	S	2	r	1	54	47	0.07	
Malin Head ...	29.73	63	W	4	bp	29.71	+ .03	47	44	— 1	S	4	c	3	56	44	—	
Mullaghmore ...	29.77	53	WSW	5	c	29.73	— .00	48	44	0	SSE	4	c	3	55	44	0.02	
Belmullet ...	29.77	47	WSW	4	r	29.71	— .00	50	47	0	SSW	3	bc	*	52	44	0.07	
Donaghadee ...	29.82	56	WSW	4	bc	29.79	— .01	47	47	— 3	SSW	3	r	2	61	46	0.09	
BRITAIN.																		
Liverpool (Bilston)	29.92	56	SW	4	c	29.87	— .05	49	48	— 2	SE	3	r	3	59	47	0.20	
Holyhead ...	29.91	51	SSW	5	c	29.82	— .05	49	48	0	S	3	rmg	3	55	47	0.36	
Parsonstown ...	29.83	53	Z	0	c	29.73	— .10	50	48	+ 2	Z	0	0	*	57	45	0.05	
Valencia ...	29.85	51	SSW	5	omv	29.73	— .12	48	46	— 3	N	1	c	1	55	45	0.07	
Roche's Point...	29.89	52	SW	4	o	29.72	— .15	50	50	0	ESE	2	r	4	56	48	0.35	
WELSH.																		
Pembroke (St. Ann's Hd.)	29.94	51	SSW	5	o	29.74	— .20	48	48	— 2	SE	6	rmg	5	52	47	0.35	
Scilly ...	29.98	54	S	4	o	29.71	— .29	53	53	— 1	S	4	r	4	60	50	0.43	
Prawle Point ...	30.06	52	WSW	3	b	29.86	— .24	50	49	— 2	SE	3	og	3	55	48	—	
Jersey (St. Aubin's)	30.10	57	SE	3	b	29.93	— .24	50	53	+ 3	SE	4	bc	3	60	47	—	
Hurst Castle ...	30.09	55	SW	5	b	29.93	— .21	50	53	+ 4	SW	4	bc	2	56	50	—	
FRANCE AND BELGIUM.																		
Dungeness ...	30.10	54	WSW	4	bc	29.97	— .15	53	51	+ 1	WSW	4	c	3	57	48	—	
London ...	30.07	57	S	2	bc	29.95	— .14	59	52	+ 5	SE	2	bc	*	62	45	—	
Oxford ...	30.05	53	SSW	2	c	29.93	— .14	51	47	— 1	SE	2	0	*	56	45	0.05	
Cambridge ...	30.06	53	SW	2	b	29.96	— .13	58	52	+ 6	SE	1	bc	*	61	44	—	
Yarmouth ...	30.04	57	E	3	bc	30.01	— .06	53	50	— 2	S	3	b	2	60	46	—	
GERMANY.																		
Cuxhaven ...	30.12	50	NW	3	b	30.12	+ .14	50	49	— 3	S	2	b	*	58	50	—	
Berlin ...	30.12	56	WNW	3	c	30.17	+ .15	57	51	+ 4	WNW	3	b	*	61	48	—	
Wiesbaden ...	*	*	*	*	*	30.13	— .07	53	49	0	Z	0	b	*	64	43	—	
Munich ...	30.23	51	NE	2	b	30.19	— .05	56	51	+ 6	E	5	b	*	61	39	0.08	
The Helder ...	30.10	51	SW	1	b	30.05	— .03	53	51	+ 1	SSE	1	c	1	55	41	—	
FRANCE AND BELGIUM.																		
Brussels (9 a.m.)	*	*	*	*	*	30.06	— .12	59	53	+ 8	SSE	2	b	*	62	49	—	
Cape Gris Nez	?	55	N	3	b	?	?	57	52	+ 7	S	2	bc	1	57	48	—	
Paris ...	30.12	62	SE	1	b	30.04	— .19	50	52	+ 5	SSE	2	b	*	?	46	—	
Brest ...	30.06	56	S	3	b	29.85	— .25	50	51	+ 2	SW	5	0	4	63	48	—	
Lorient ...	30.10	53	SSW	3	b	29.89	— .23	55	53	+ 3	SSE	4	bc	4	59	50	—	
FRANCE AND BELGIUM.																		
Rocheport ...	30.01	56	NW	3	b	29.94	— .25	58	55	+ 4	ESE	3	bc	?	72	46	—	
Belfort ...	30.09	62	E	1	bc	30.05	— .12	53	48	— 2	E	2	b	*	71	54	—	
Lyons ...	30.13	64	ENE	1	b	30.09	— .13	58	53	+ 4	SE	1	b	*	66	48	—	
Nice ...	30.07	63	W	1	b	30.13	+ .03	60	53	— 1	SW	2	b	1	68	50	—	
Perpignan ...	30.12	66	Z	0	b	30.07	— .13	61	59	0	E	2	b	*	73	49	—	
Barritz ...	30.04	62	NE	3	b	29.89	— .33	60	58	+ 10	SE	3	0	5	73	?	—	
SPAIN.																		
Corunna ...	*	*	*	*	*	30.04	— .10	55	53	— 3	N	1	0	?	75	52	—	
Lisbon ...	30.04	59	NW	5	o	30.04	— .10	55	53	— 3	N	1	0	?	75	52	—	

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

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

WEATHER CHARTS

for 8 a.m. on

Friday, 16th May,

1890.

BAROMETER, WIND AND SEA.

EXPLANATION OF MAP.

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

Changes since previous morning are stated in words.

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

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

→ = forces 5 to 7; → = forces 1 to 4.

⊙ = dead calm.

SEA DISTURBANCE—Where considerable, is shown thus:

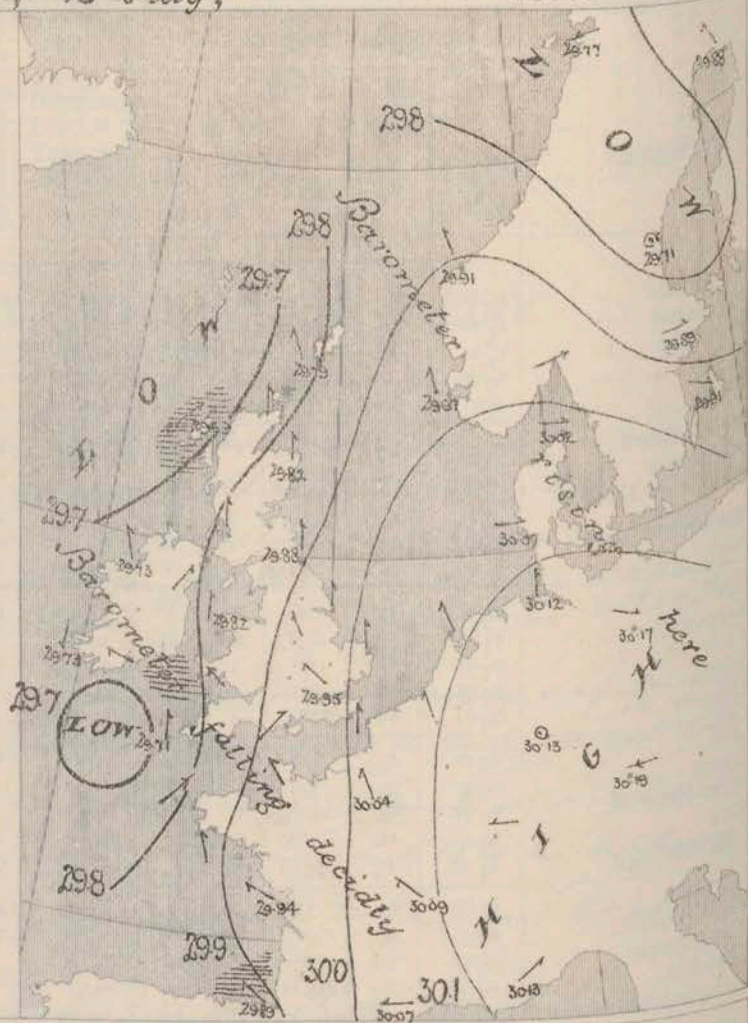
▨ = Rough. ▨ = High.

MEAN HEIGHT OF THE BAROMETER

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

During the 15 Years: 1871—1885.

STATIONS.	MEAN READINGS.
Sumburgh Head	29.878
Stornoway	29.893
Wick	29.906
Nairn	29.918
Aberdeen	29.922
Leith	29.942
Shields	29.955
York	29.974
Loughborough	29.984
Ardrossan	29.949
Donaghadee	29.959
Holyhead	29.971
Liverpool	29.974
Parsonstown	29.976
Valencia	29.984
Roche's Point	29.979
Pembroke	29.977
Sailly	29.997
Jersey	30.002
Hurst Castle	29.994
Dover	29.985
LONDON	29.995
Oxford	29.993
Cambridge	29.989
Yarmouth	29.980



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.

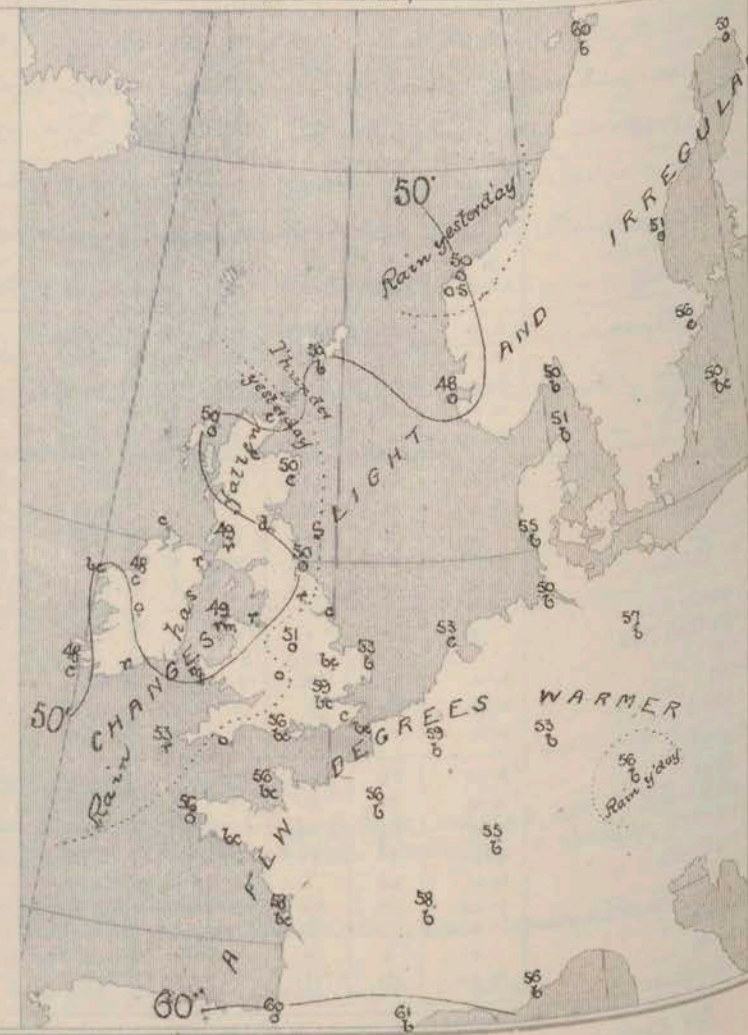
WEATHER is shown by letters of the Beaufort Scale.

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 May.)

STATIONS.	TEMPERATURE.				RAINFALL (Inches.)
	Daily Max.	Daily Min.	at 8 a.m.		
			Dry.	Wet.	
Sumburgh Head.....	50.2	39.9	45.9	43.9	1.71
Stornoway	52.9	40.7	48.4	45.0	2.64
Wick	53.7	40.4	47.9	45.2	1.62
Nairn	55.9	42.0	48.4	45.0	1.67
Aberdeen	55.0	41.7	48.9	45.3	1.90
Leith	57.8	42.2	50.1	46.7	1.65
Shields	51.2	43.1	49.1	45.9	1.75
York	59.3	41.6	49.6	46.4	1.71
Loughborough	61.6	42.2	51.2	47.6	1.96
Ardrossan	56.2	43.7	49.3	46.4	2.20
Donaghadee	55.9	43.6	49.6	47.3	2.15
Holyhead	56.0	46.1	50.3	47.8	1.88
Liverpool	57.5	44.7	50.6	46.8	1.74
Parsonstown	59.3	42.3	51.0	47.7	2.23
Valencia	58.1	45.9	52.8	49.5	2.89
Roche's Point	59.6	46.0	51.7	48.7	3.05
Pembroke	55.1	46.0	49.0	47.4	1.97
Sailly	56.3	48.2	52.7	50.3	1.66
Jersey	59.3	47.1	53.5	50.4	1.74
Hurst Castle	58.3	45.3	51.3	49.7	1.70
Dover	56.8	46.8	52.8	49.2	1.77
LONDON	62.1	44.1	52.4	48.4	1.73
Oxford	60.5	43.9	50.6	47.4	1.83
Cambridge	61.7	41.8	51.3	48.1	1.76
Yarmouth	55.4	44.8	50.5	48.0	1.85

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 Germany and the east of France.

Lowest 29.7 ins. and less in a depression lying off our southwest coasts, and also in the Hebrides; 29.8 ins. and less over the north of Scandinavia.

Gradient slight generally. Barometer falling in our Islands, France and the Netherlands, but rising in Scandinavia & Denmark.

TEMPERATURE

Highest 61° at Perpignan, 60° at Brest and Biarritz, 59° in London, and at Brussels, and 58° at Cambridge, Rochefort and Lyons.

Lowest 44° at Malin Head and Donaghadee, 48° at Shetland, Mullaghmore, Valencia and Pembroke, and 49° at Wick, Ardrossan, Holyhead and Liverpool.

The highest maxima registered over our Islands yesterday were 62° at Loughborough, 61° in London, 61° at Donaghadee and Cambridge.

WIND

Light or moderate from the S. or S.E. over the greater part of western Europe, but strong in force at the mouth of the Bristol Channel. At Valencia a light N. breeze is reported.

Moderate from the W. over Denmark and the south of Scandinavia, variable in Germany to the S. of France.

WEATHER

Rainy at many of our western stations, and also in the north of England.

Fair at our southeastern and many of the Continental stations, but dull in the north of Scandinavia, and also at Biarritz and Lisbon.

Showers fell yesterday in the west and north of our Islands, and thunder was heard at Wick. Snow halos and mock suns were seen in the south of England.

SEA

Rather rough at Stornoway, Pembroke and Biarritz, but moderate to smooth elsewhere.

PROBABLE CHANGES IN SYSTEM NOW PREVALENT

The depression in the southwest will probably move northwards, and occasion rainy weather in Scotland. It is at present doubtful whether our south eastern districts will be affected by this disturbance, but another system which is lying near Biarritz may possibly advance northwards and produce unsettled weather in the south and east of England.

FORECASTS

For the 24 hours ending at NOON on 17th May

1890.

DISTRICTS.

FORECASTS.

0 SCOTLAND NORTH

1 SCOTLAND EAST

2 ENGLAND N.E.

3 ENGLAND EAST

4 MIDLAND COUNTIES

5 ENGLAND SOUTH

SE and S winds, moderate; fair to dull and some rain.

S winds, moderate; dull, rain at times.

Same as N° 5.

Same as N° 2.

S winds, light or moderate; fair to cloudy, probably some rain.

DISTRICTS.

FORECASTS

6 SCOTLAND WEST

7 ENGLAND N.W.

8 ENGLAND S.W.

9 IRELAND NORTH

10 IRELAND SOUTH

Same as N° 2.

SE and S winds, fresh; dull and rainy at first, but improving temporarily later.

SE winds, moderate; dull, some rain.

Tight variable breezes; changeable, some showers.

WARNINGS

NONE ISSUED.

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

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

YESTERDAY'S 2 P.M. REPORTS.

	BAR.	THER.		WIND		WEA.	SEA		BAR.	THER.		WIND		WEA.	SEA
		D.	W.	D.	F.					D.	W.	D.	F.		
Skudesnaes ...	29.90	57	52	W	2	bc	2	Holyhead ...	29.89	55	51	SSW	5	bc	6
Sumburgh Head ...	29.77	50	46	SSW	2	b	3	Valencia ...	29.86	55	50	SW	6	cm	5
Stornoway ...	29.66	53	51	SW	6	bc	5	Scilly ...	30.01	59	55	SSW	4	c	3
Aberdeen ...	29.80	50	46	SE	4	ogpy	3	Jersey ...	30.14	60	55	ESE	3	bc	3
Shields ...	29.85	54	50	SW	4	o	2	Dungeness ...	30.12	55	52	WSW	4	c	3
Ardrossan ...	29.78	54	50	S	3	b	2	London ...	30.09	59	52	SW	3	c	3
Malin Head ...	29.73	52	46	WSW	5	c	4	Yarmouth ...	30.06	57	52	S	5	bc	3
Mullaghmore ...	29.77	55	47	SW	6	bc	5	Rochefort ...	30.17	70	60	NW	1	b	1
Belmullet ...	29.77	52	46	SW	4	c	*								

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

Weather fine over the greater part of western and southern Europe, but solar halos reported in the S. of England, and passing showers at some of our western stations. Dull over Russia, Germany and Austria, with rain at Munich and Noidaioff, showers falling later in the west and north of our Islands generally, and thunder occurring at Wick. Solar halos and mock suns reported over the S. of England in evening.

Temperature highest 65° and upwards over the Mediterranean and Adriatic, as well as at some of the Baltic stations, the highest readings of all being 74° at Constantinople, 70° at Brindisi, 66° at Algiers, and 64° at Barcelona. Lowest 43° at Archangel, 46° at Haparanda and Kuopio, 48° at Skudesnaes, Sumburgh Head, Stornoway, Malin Head, Mullaghmore, and Parsonstown, and 49° at Helsingfors, Ardrossan and Holyhead. Daily maxima very little above 60° in any part of our Islands, but thermometer rising above 65° in the south of Sweden, and above 70° in many parts of France.

Wind SW^{ly} over our Islands, and the north of France, and fresh or strong in force at several of the western stations. Moderate from the W^{ind} over Denmark, the Netherlands and the greater part of Germany, but NW^{ly} over eastern Germany and Austria; light from the End over Russia and Scandinavia; variable over southern Europe, Algeria and the Mediterranean. Subsequently backing to the Snd or SEnd on the southwest coasts of our Islands, but no important change occurring elsewhere.

Barometer highest 30.2 ins. and upwards in a large anticyclone lying over France, the N. of Spain and Wth Germany, as well as in smaller systems lying over Algeria; high 30.1 ins. and upwards over Russia. Lowest 29.6 ins. and less in a depression lying to the NWth of Scotland; trough of low readings (29.8 ins. and less) extending SEth from the Norwegian coasts to Poland. Depression beginning to show itself later over the north of Spain, and barometer falling decidedly in the southwest 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. 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 17th May.*

1890.

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

STATIONS.	YESTERDAY EVENING.					8 A.M. TO DAY.										PAST 24 HOURS.		
	Barom. Reading at 32° F. and Sea Level.	Temp. Dry.	Wind.		Weather.	Barometer.		Shade Temp.			Wind.		Weather.	Sea. (0 to 5.)	Shade Temp.			
			Force. (0 to 12.)	Dir.		Reading at 32° F. and Sea Level.	Difference from 8 a.m. yesterday.	Dry.	Wet.	Difference from 8 a.m. yesterday.	Dir.	Force. (0 to 12.)			Max.	Min.	Amount of Rainfall.	
Haparanda ...	29.78	50	Z	0	c	29.68	-20	44	44	-6	S	2	o	*	61	44	0.04	
Hernösand ...	29.86	49	Z	0	c	29.96	+25	53	45	+2	NW	6	c	*	64	41	—	
Stockholm ...	29.94	56	W	4	c	30.01	+12	58	50	+2	N	2	c	*	66	50	—	
Wisby ...	29.95	51	WNW	2	c	29.87	+06	49	47	-1	NNW	2	c	*	59	43	—	
Bodo ...	29.78	46	SW	6	r	29.87	+10	44	42	-16	ESE	6	r	3	61	41	0.47	
Christiansund ...	29.93	51	NNE	3	bc	29.92	+01	52	48	+2	ESE	3	c	2	54	48	0.04	
Skudenes ...	29.96	49	SE	2	o	29.86	-11	53	49	+7	ESE	4	c	4	54	48	—	
Christiania Fjord (Frier)	29.97	52	SW	5	c	30.01	+07	54	52	+4	SE	4	c	2	54	50	—	
Skagen (The Scaw)	30.01	52	Z	0	bc	30.01	-01	54	52	+3	S	1	c	0	61	50	—	
Fanø ...	30.01	51	SE	2	c	29.87	-20	59	55	+4	SE	5	c	*	59	50	—	
Snaburgh Head	29.76	49	S	3	o	29.56	-23	48	47	-2	SE	5	r	6	54	45	0.38	
Stornoway ...	29.66	52	SW	5	bc	29.55	-34	49	49	-1	E	4	r	4	54	45	0.05	
Wick ...	29.70	50	S	2	o	29.59	-39	48	48	-1	SE	5	r	3	53	45	0.30	
Nairn ...	29.68	52	Z	0	r	29.53	-42	51	50	-2	E	1	r	1	58	46	0.14	
Aberdeen ...	29.75	48	SE	3	o	29.43	-39	48	48	-2	SE	4	OT	5	54	46	0.71	
Leith ...	29.70	51	ENE	1	r	29.57	-45	53	51	+5	SW	1	c	*	57	47	0.12	
Shields ...	29.73	48	ESE	3	o	29.44	-44	53	54	+7	SE	4	c	3	57	47	0.30	
Spurn Head ...	29.68	53	SE	5	c	29.57	-36	53	50	-1	S	6	a	4	56	51	0.02	
York ...	29.71	52	ESE	1	o	29.51	-42	56	51	+6	S	4	c	*	60	49	0.24	
Loughborough	29.72	60	SE	3	o	29.57	-37	56	53	+5	SW	4	c	*	68	51	0.10	
Adrossan ...	29.65	52	S	2	r	29.56	-44	52	51	+3	S	2	o	2	52	47	0.84	
Malin Head ...	29.61	48	ESE	3	OT	29.59	-32	47	47	0	W	2	OT	2	52	47	0.08	
Mallaghmore ...	29.60	53	NW	1	c	29.44	-29	50	47	+2	WNW	2	bc	2	53	46	—	
Belmullet ...	29.60	54	W	2	c	29.43	-28	51	47	+1	SE	3	c	*	54	42	0.01	
Donaghadee ...	29.59	49	SE	3	r	29.40	-39	49	49	+2	WNW	3	r	2	51	47	0.46	
Liverpool (Bidston)	29.65	56	SE	3	o	29.49	-38	54	50	+5	SE	3	bc	3	57	49	0.10	
Holyhead ...	29.61	52	SW	4	rm	29.49	-33	49	49	0	WNW	3	omg	3	53	48	1.18	
Parsonstown ...	29.58	51	Z	0	o	29.50	-23	49	46	-1	Z	0	bc	*	53	45	0.13	
Valencia ...	29.64	53	NW	2	bc	29.41	-32	49	47	+1	SE	6	rw	6	55	42	0.13	
Roche's Point...	29.56	51	N	3	OT	29.51	-21	52	49	+2	SW	4	bc	4	53	44	0.20	
Pembroke (St. Ann's Hd.)	29.58	51	SE	5	r	29.53	-15	51	48	+3	SW	4	bc	5	51	47	0.88	
Seilly ...	29.54	54	S	4	no p	29.63	-08	54	51	+1	SW	4	c	4	53	51	0.45	
Prawle Point ...	29.66	52	SE	3	o	29.71	-15	50	48	0	SW	4	bc	3	53	47	0.04	
Jersey (St. Aubin's)	29.75	57	SE	2	rom	29.80	-13	54	50	-2	SW	5	bc	4	66	49	0.11	
Hurst Castle ...	29.74	53	S	4	r	29.73	-20	52	51	-4	WNW	6	bc	4	61	50	0.33	
Dungeness ...	29.80	57	E	1	c	29.73	-24	52	50	-1	WNW	6	c	4	63	51	0.05	
London ...	29.77	64	SE	3	c	29.68	-27	53	51	-4	S	3	o	*	68	50	0.10	
Oxford ...	29.72	55	S	2	r	29.65	-28	50	49	-1	WNW	3	r	*	65	50	0.17	
Cambridge ...	29.75	61	SE	1	bc	29.65	-31	56	51	-2	S	2	o	*	70	51	—	
Yarmouth ...	29.82	57	SE	2	c	29.66	-35	58	53	+5	WNW	4	c	2	60	46	—	
Cuxhaven ...	30.01	56	NNE	3	?	29.91	-21	56	55	+6	SE	5	c	*	63	50	—	
Berlin ...	30.06	61	E	2	c	30.01	-16	58	52	+1	ESE	3	c	*	66	48	—	
Wiesbaden ...	29.88	58	Z	0	c	29.88	-25	58	54	+5	Z	0	c	*	72	50	—	
Munich ...	30.03	54	NE	3	c	29.97	-22	54	51	-2	NE	3	c	*	66	39	—	
The Helder ...	29.88	60	ESE	1	c	29.70	-35	63	58	+10	SE	1	c	1	66	54	—	
Brussels (8 a.m.)	?	59	E	2	bc	29.76	-30	63	59	+4	WNW	2	bc	*	73	57	—	
Cape Gris Nez	?	59	E	2	bc	29.76	-30	63	59	+4	WNW	2	bc	*	73	57	—	
Paris ...	29.82	71	SE	2	c	29.84	-20	59	57	+3	WNW	2	o	4	75	54	—	
Brest ...	29.65	57	SW	6	o	29.76	-09	53	49	-3	WNW	4	c	4	63	46	0.04	
Lorient ...	29.75	55	SW	4	c	29.84	-05	52	47	-3	WNW	2	c	4	59	48	0.04	
Rochefort ...	29.82	62	WNW	3	o	29.87	-07	55	53	-3	WNW	4	o	3	77	48	—	
Belfort ...	29.91	64	W	1	bc	29.89	-16	57	43	+2	NW	1	c	*	75	50	—	
Lyons ...	29.89	70	S	3	c	29.92	-17	56	51	-2	ESE	1	c	*	76	51	—	
Nice ...	30.00	63	SW	4	c	29.92	-21	64	54	+8	ESE	2	bc	0	72	55	—	
Perpignan ...	29.90	63	NE	2	c	29.91	-16	61	58	0	SW	1	o	*	66	49	—	
Biarritz ...	29.89	58	NW	2	o	29.92	+03	54	53	-6	NW	3	c	3	73	52	0.20	
Corunna ...	30.00	59	WNW	3	c	29.97	-07	57	55	+2	N	3	o	5	66	55	—	
Lisbon ...	30.00	59	WNW	3	c	29.97	-07	57	55	+2	N	3	o	5	66	55	—	

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

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

WEATHER CHARTS

for 8 a.m. on

Saturday, 17th May,

1890.

BAROMETER, WIND AND SEA.

EXPLANATION OF MAP.

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

Changes since previous morning are stated in words.

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

their barbs and feathers refer to force thus—

→ = forces above 10, → = forces 8 to 10,

→ = forces 5 to 7, → = forces 1 to 4.

⊕ = dead calm.

SEA DISTURBANCE—Where considerable, is shown thus:

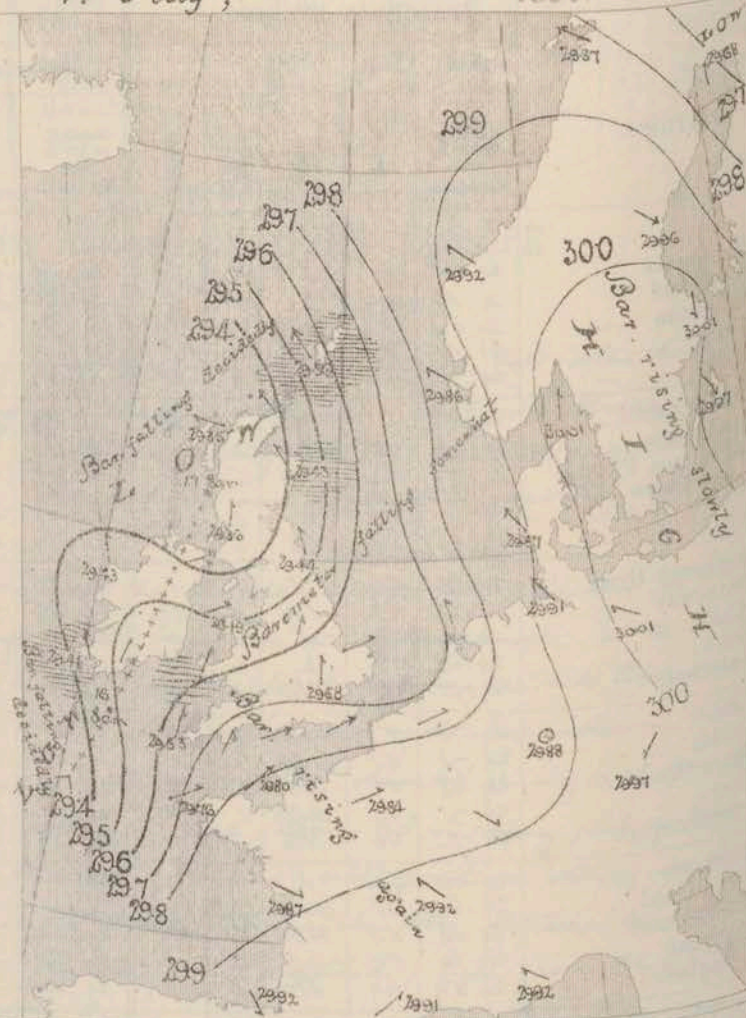
▨ = Rough. ▨ = High.

MEAN HEIGHT OF THE BAROMETER

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

During the 15 Years: 1871—1885.

STATIONS.	MEAN READINGS.
Sumburgh Head	29.878
Stornoway	29.893
Wick	29.906
Nairn	29.918
Aberdeen	29.922
Leith	29.942
Shields	29.955
York	29.974
Loughborough	29.984
Ardrossan	29.949
Donaghadee	29.959
Holyhead	29.971
Liverpool	29.974
Parsonstown	29.976
Valencia	29.984
Rocha's Point	29.979
Pembroke	29.977
Silly	29.997
Jersey	30.002
Hurst Castle	29.994
Dover	29.985
LONDON	29.995
Oxford	29.993
Cambridge	29.989
Yarmouth	29.980



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.

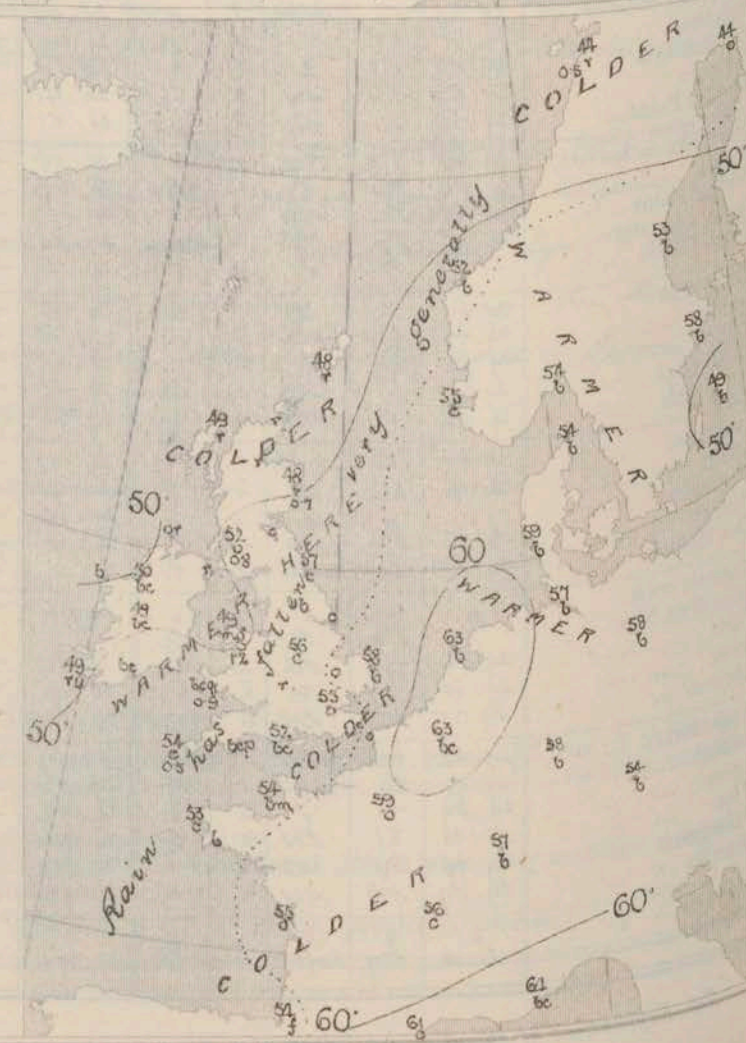
RAINFALL—A dotted line separates the districts in which rain has fallen from those where there has been none. Falls of 0.5 in. or more are quoted in figures.

MEANS OF TEMPERATURE IN SHADE, AND RAINFALL.

(For the month of May.)

STATIONS.	TEMPERATURE.				RAINFALL (Inches.)
	Daily Max.	Daily Min.	Dry, at 8 a.m.	Wet, at 8 a.m.	
Sumburgh Head	50.2	30.0	45.0	48.0	1.71
Stornoway	52.9	40.7	48.4	46.0	2.04
Wick	53.7	40.4	47.0	45.2	1.62
Nairn	55.9	42.0	48.4	45.0	1.67
Aberdeen	55.0	41.7	48.9	45.3	1.09
Leith	57.8	42.2	50.1	46.7	1.65
Shields	51.2	43.1	49.1	45.0	1.75
York	59.3	41.6	49.6	46.4	1.71
Loughborough	61.5	42.2	53.2	47.6	1.96
Ardrossan	56.2	43.7	49.3	46.4	2.29
Donaghadee	55.9	43.0	49.3	47.3	2.15
Holyhead	56.0	46.1	50.3	47.8	1.88
Liverpool	57.5	44.7	50.0	46.8	1.74
Parsonstown	59.3	42.3	51.0	47.7	2.25
Valencia	58.1	46.9	52.8	49.5	2.89
Rocha's Point	59.6	46.0	51.7	48.7	3.05
Pembroke	55.1	46.0	49.9	47.4	1.97
Silly	56.3	45.2	52.7	50.3	1.66
Jersey	59.6	47.1	53.5	50.4	1.74
Hurst Castle	58.3	45.3	51.5	49.7	1.76
Dover	56.8	46.8	52.8	49.2	1.77
LONDON	62.1	44.1	52.1	48.4	1.78
Oxford	60.5	45.0	50.6	47.1	1.94
Cambridge	61.7	41.8	51.3	48.1	1.76
Yarmouth	55.4	44.8	50.4	48.0	1.84

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



GENERAL SITUATION AT 8 A.M.

PRESSURE

Highest, 30.0 in. and upwards, in a ridge extending from Germany to the central parts of Scandinavia.
 Lowest, 29.4 in. and less, in a depression lying over Scotland and also in another disturbance lying to the southward of Ireland.
 Gradients moderate over England, Ireland, and the North Sea, but slight elsewhere.
 Barometer rising in Scandinavia and the coast of France, but falling elsewhere—quickly at Valencia.

TEMPERATURE

Highest, 64° at Nice, 63° at the Helder and Rouen, 61° at Perpignan, 53° at Paris and Orléans, and 58° at Stockholm, Yarmouth, Berlin and Munkton.
 Lowest, 44° at Haparanda and Bodo, 47° at Malin Head, and 48° at Lumbagh Head, Wick, and Aberdeen.
 The highest maxima registered over our islands yesterday were 70° at Cambridge, and 68° at Lumbagh and in London.

WIND

Moderate to strong from the SWnd over England, the Channel, and the north of France.
 Light from W. in the north of Ireland; strong from SSE at Valencia.
 Moderate or fresh from the SEnd over the North Sea, Norway, and the north and east of Scotland; Nnd or NWnd in Sweden; variable in the east and south of France.

WEATHER

Rain at several of the Irish stations and also in the north and east of Scotland.
 Fair or fine in most other localities, but foggy at Bannity.
 Since yesterday morning rain has fallen in nearly all parts of the United Kingdom, the largest amount being 1.2 in. at Holyhead, 0.9 in. at Penzance, 0.8 in. at Aberdeen, and 0.7 in. at Bannity.

SEA

Rough at Lumbagh Head and Valencia, and rather rough at Aberdeen and Penzance, but moderate to smooth elsewhere.

PROBABLE CHANGES IN SYSTEM NOW PREVALENT

The new depression which is approaching Ireland will probably occasion a considerable increase of wind on our west and southwest coasts, and showery unsettled weather seems likely to extend over the greater part of the United Kingdom.

FORECASTS

For the 24 hours ending at NOON on 18th MAY 1890.

DISTRICTS.

FORECASTS.

DISTRICTS.

FORECASTS.

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

SEnd winds, moderate or fresh; unsettled; rain at times.
 Snd winds, fresh; fair to dull and some rain.
 SWnd winds, fresh or strong; fair to squally and some rain.

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

Snd and SEnd winds, fresh; cloudy, some rain.
 Snd to SWnd winds, increasing in force; squally, some rain.
 Snd to SWnd or Wnd winds, strong; squally; rain at times.

WARNINGS

NONE ISSUED.

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

YESTERDAY'S 2 P.M. REPORTS.

	THER:		WIND		WEA.	SEA		THER:		WIND		WEA.	SEA
	BAR:	D.	W.	D.	F.			BAR:	D.	W.	D.	F.	
Skudesnaes ...	29.99	50	49	SE	6	o	4	Holyhead ...	29.69	52	51	SE	4
Sumburgh Head ...	29.79	52	50	S	2	bc	4	Valencia ...	29.69	54	50	WNW	3
Stornoway ...	29.69	54	52	SW	5	bc	5	Scilly ...	29.64	54	53	SE	5
Aberdeen ...	29.79	52	49	SE	3	c	2	Jersey ...	29.83	64	60	SE	3
Shields ...	29.81	53	51	SE	3	p	2	Dungeness ...	29.89	62	56	WSW	1
Ardrossan ...	29.73	52	51	S	2	p	2	London ...	29.85	66	59	SE	4
Malin Head ...	29.63	50	48	ENE	2	o	3	Yarmouth ...	29.91	57	53	SE	3
Mullaghmore ...	29.67	51	47	ENE	2	c	3	Rochefort ...	29.84	74	65	SE	4
Belmullet ...	29.68	50	48	W	3	c	*						

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

Weather fine and bright over Central Europe, France, and at most of the Mediterranean stations, as well as in the north of Russia, ^{except in the north of Sweden} and unsettled elsewhere, with rain in several parts of the British Isles, Western Russia and Baltic Provinces. Rain during the day throughout United Kingdom — heavy in the west and northwest, and smaller quantities at several Continental stations, fine over the Netherlands and Germany.

Temperatures very irregularly distributed; exceeding 60° on the western, southern, and eastern shores of the Mediterranean, and as high as 60° at Porto, 53° at St Petersburg, and 58° at Riga. Below 50° at several stations in the British Islands; lowest of all 47° at Malin H. and Donaghadee, 48° at Valencia and Pembroke, and 45° at Wick and Liverpool. Rising to between 60° and 70° over Sweden, Germany, and England later, and to between 70° and 80° in many parts of France.

Wind chiefly S^W to SE^E over Western Europe and the British Isles, NW^W over Germany and Austria, very variable elsewhere. Force light to moderate in our islands, light in most other places. Freshening from the S^W over England later, but becoming N^W in Ireland.

Barometer highest 30.0 ins. to 30.2 ins. and more, over the whole of Central Europe and the greater part of the Mediterranean; 30.0 ins. to 30.1 ins. over Northern and Eastern Russia. Lowest, 29.7 ins. to 29.8 ins. over the western parts of the British Isles and about the same value in a band stretching from the north of Scandinavia across the Baltic Provinces to western and southern Russia. Shallow depression off the south of Ireland developing into a complex disturbance later, and barometer falling over Western Europe generally.

EXPLANATION OF COLUMNS GIVEN ON PAGE 1.

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

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

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

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

DAILY WEATHER REPORT.

for Sunday 18th May 1890.
Issued by the Meteorological Office, 63, Victoria Street, London. R. H. SCOTT, Secretary.

STATIONS.	YESTERDAY EVENING.					8 A.M. TO DAY.										PAST 24 HOURS.		
	BAROM.	TEMP.	WIND.		Weather.	BAROMETER.		SHADE TEMP.		WIND.		Weather.	Sea. (0 to 9.)	SHADE TEMP.		Amount of Rainfall.		
			Reading at 3 rd P. and Sea Level.	Dry.		Dirac.	Force. (0 to 12.)	Reading at 3 rd P. 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 ...	29.76	51	NNW	6	0	29.95	+ .27	46	44	+ 2	N	4	b	*	59	43	—	
Hernösand ...	29.98	54	Z	0	b	30.07	+ .11	53	44	0	E	2	b	*	72	43	—	
Stockholm ...	30.04	55	S	2	b	30.08	+ .07	62	52	+ 4	W	2	b	*	70	50	—	
Wisby ...	29.99	49	SE	2	b	30.02	+ .05	55	50	+ 6	NE	4	b	*	57	46	—	
Bodö ...	29.99	46	WSW	2	b	29.97	+ .10	51	45	+ 7	E	2	b	1	50	31	0.12	
CHRISTIANIA.																		
Christiansund	29.82	57	ENE	3	bc	29.88	— .04	56	52	+ 4	W	1	c	2	59	52	—	
Skudesnaes ...	29.77	59	SE	8	0	29.92	+ .15	51	50	— 4	S	4	r	4	63	50	0.12	
Christiania Fjord (Færder)	29.99	55	NNE	7	b	30.05	+ .04	54	50	0	NNE	2	b	1	59	50	—	
Skagen (The Seaw)	29.94	53	SSE	1	b	30.00	— .01	55	52	+ 1	SE	2	b	2	66	53	—	
Fanö ...	29.83	56	SE	5	b	29.91	+ .04	55	54	— 4	WSW	1	c	*	68	52	—	
SCOTLAND.																		
Sumburgh Head	29.46	49	SE	5	0	29.75	+ .19	50	49	+ 2	SSE	1	b	5	51	43	0.23	
Stornoway ...	29.39	53	S	4	0	29.67	+ .32	52	51	+ 3	S	3	0	3	54	50	0.02	
Wick ...	29.45	50	S	3	bc	29.76	+ .37	50	47	+ 2	SE	3	0	3	59	46	0.05	
Nairn ...	29.46	56	WSW	3	bc	29.70	+ .37	51	46	0	ESE	1	bc	1	63	44	—	
Aberdeen ...	29.50	59	SSW	4	b	29.77	+ .34	52	49	+ 4	SE	2	b	3	60	44	0.01	
ENGLAND.																		
Leith ...	29.58	54	SW	3	bc	29.70	+ .33	56	50	+ 1	E	1	b	*	63	47	0.04	
Shields ...	29.60	57	SW	4	bc	29.75	+ .31	50	48	— 7	SE	1	0	2	62	46	—	
Spurn Head ...	29.67	58	SW	4	b	29.74	+ .17	50	49	— 3	SE	3	r	2	62	49	0.06	
York ...	29.64	58	SW	1	m	29.75	+ .24	49	48	— 7	E	1	r	*	61	45	0.04	
Loughborough	29.67	60	SSW	3	bc	29.72	+ .15	55	52	— 1	SE	2	c	*	63	45	—	
IRELAND.																		
Ardrossan ...	29.54	52	SSW	3	c	29.55	+ .19	53	50	+ 1	ESE	3	0	2	53	48	0.01	
Malin Head ...	29.46	48	ESE	4	og	29.48	+ .09	49	47	+ 2	SE	5	ogp	2	53	47	0.06	
Mullaghmore ...	29.41	54	ESE	5	c	29.45	+ .01	51	49	+ 1	SE	5	c	3	58	49	0.04	
Belmullet ...	29.36	55	E	4	0	29.39	— .04	49	46	— 2	SE	3	0	*	57	46	0.03	
Donaghadee ...	29.53	52	WSW	4	bc	29.59	+ .19	49	48	0	SE	5	0	3	58	48	0.14	
BRITISH ISLANDS.																		
Liverpool (Bidston)	29.62	53	SSW	2	0	29.65	+ .16	55	48	+ 1	SE	4	bc	3	61	48	—	
Holyhead ...	29.58	52	S	3	og	29.59	+ .10	51	49	+ 2	SSE	4	cp	3	55	47	0.02	
Parsonstown ...	29.39	51	SE	1	r	29.45	+ .05	50	48	+ 1	Z	0	c	*	58	45	0.05	
Valencia ...	29.26	50	SSW	5	c	29.30	— .11	52	49	+ 3	SE	4	0	5	52	45	0.51	
Roche's Point...	29.36	52	SW	6	c	29.39	— .12	53	50	+ 1	S	6	bc	4	54	45	0.40	
EUROPE.																		
Pembroke (St. Ann's Hd.)	29.53	50	SSE	6	r	29.57	— .02	51	50	0	SSE	5	bc	5	53	47	0.07	
Scilly ...	29.46	51	S	7	r	29.50	— .13	54	52	0	S	5	c	4	55	48	0.12	
Prawle Point ...	29.67	50	S	4	0	29.65	— .06	51	50	+ 1	S	4	bc	3	54	48	—	
Jersey (St. Aubin's)	29.73	59	SSE	3	bc	29.71	— .04	55	53	+ 1	SSE	4	omg	3	60	51	—	
Hurst Castle ...	29.74	54	SSE	3	bc	29.72	— .01	53	52	+ 1	S	3	c	4	61	50	—	
FRANCE AND BELGIUM.																		
Dungeness ...	29.78	54	SW	2	bc	29.74	+ .01	54	52	+ 2	SSW	2	c	1	57	51	—	
London ...	29.75	57	S	3	b	29.73	+ .05	56	51	+ 1	S	2	bc	*	63	49	0.01	
Oxford ...	29.73	51	S	2	b	29.71	+ .06	55	50	+ 5	S	2	b	*	60	47	0.01	
Cambridge ...	29.73	57	SW	2	b	29.73	+ .08	58	55	+ 2	S	1	c	*	64	44	0.05	
Yarmouth ...	29.73	57	S	4	b	29.77	+ .11	53	51	— 5	SE	4	bc	3	63	49	—	
GERMANY.																		
Cuxhaven ...	29.79	61	SE	4	b	29.87	— .04	58	57	+ 2	SSE	3	b	*	62	56	—	
Berlin ...	29.90	64	ESE	2	b	29.95	— .06	62	57	+ 4	ESE	4	b	*	72	54	—	
Wiesbaden ...	*	*	*	*	*	29.83	— .05	63	58	+ 5	SE	2	b	*	75	54	—	
Munich ...	*	*	*	*	*	29.89	— .08	56	51	+ 2	NE	3	b	*	68	41	—	
The Helder ...	29.90	55	Z	0	b	29.84	+ .14	57	54	— 6	E	1	b	1	66	50	0.08	
NETHERLANDS.																		
Brussels (8 a.m.)	*	*	*	*	*	?	?	58	56	+ 6	NW	1	0	*	70	52	—	
Cape Gris Nez	?	50	W	3	b	?	?	60	57	+ 1	SE	2	bc	0	66	54	0.04	
Paris ...	29.81	63	SW	1	0	29.77	— .07	62	49	— 1	WSW	4	bc	6	63	46	0.04	
Brest ...	29.65	52	S	6	0	29.62	— .14	52	51	+ 2	SSW	4	0	4	59	50	0.04	
Lorient ...	29.74	55	SSW	4	0	29.68	— .16	54	51	+ 2	SSW	4	0	4	59	50	0.04	
FRANCE AND BELGIUM.																		
Roche fort ...	29.81	54	NNW	3	0	29.76	— .11	54	53	— 1	S	1	0	2	60	45	0.04	
Belfort ...	29.77	67	?	3	c	29.83	— .09	57	52	+ 1	S	2	c	*	76	54	—	
Lyons ...	29.87	60	SW	4	b	29.87	— .05	61	52	— 3	SW	2	bc	1	72	54	—	
Nice ...	29.80	61	E	2	0	29.81	— .10	58	57	— 3	W	2	c	*	65	51	—	
Perpignan ...	29.77	58	NNE	3	r	29.75	— .17	54	53	0	NE	2	r	2	64	52	0.59	
Giarritz ...	29.77	58	NNE	3	r	29.75	— .17	54	53	0	NE	2	r	2	64	52	0.59	
SPAIN.																		
Corunna ...	*	*	*	*	*	29.75	— .14	57	55	— 3	SSW	4	c	4	61	50	0.04	
Lisbon ...	29.41	55	NNW	4	bc	29.86	— .11	56	52	— 1	Z	0	0	2	64	54	—	

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

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

WEATHER CHARTS

for 8 a.m. on

Sunday, 18th May,

1890.

BAROMETER, WIND AND SEA.

EXPLANATION OF MAP.

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

Changes since previous morning are stated in words.

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

→ = forces above 10; →→ = forces 8 to 10;
→→ = forces 6 to 7; →→ = forces 1 to 4.
⊙ = dead calm.

SEA DISTURBANCE—Where considerable, is shown thus:

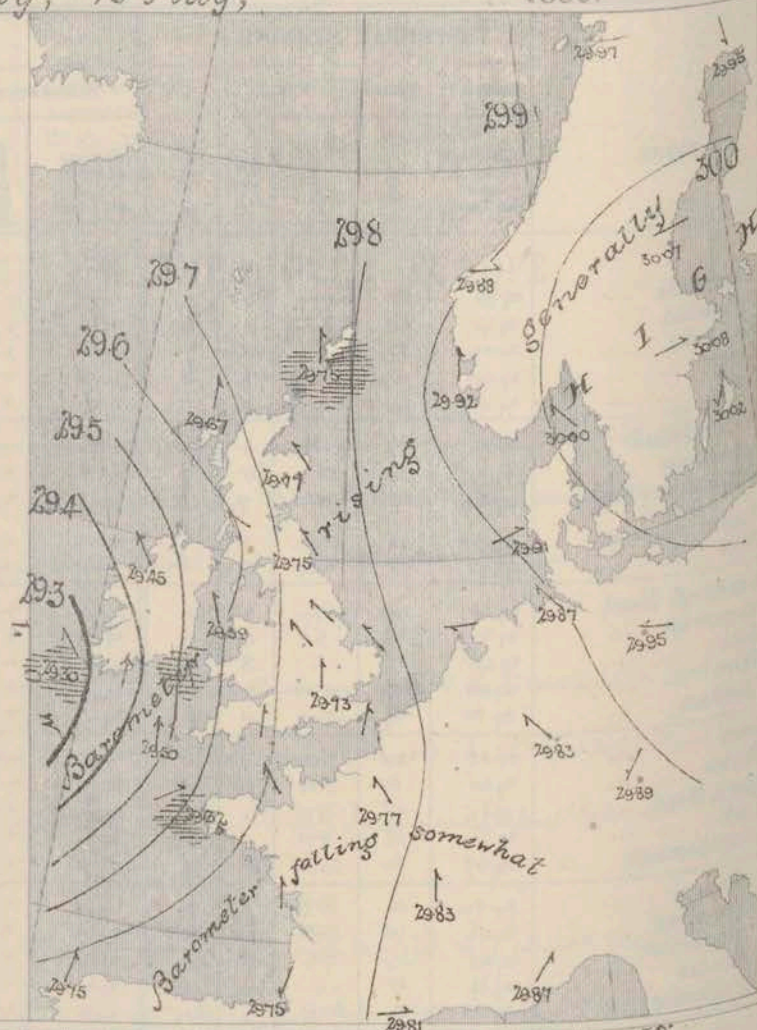
▨ = Rough. ▨ = High.

MEAN HEIGHT OF THE BAROMETER

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

During the 15 Years: 1871—1885.

STATIONS.	MEAN READINGS.
Sumburgh Head	29.878
Stornoway	29.893
Wick	29.906
Nairn	29.918
Aberdeen	29.922
Leith	29.942
Shields	29.955
York	29.974
Loughborough	29.984
Ardrossan	29.949
Donaghadee	29.959
Holyhead	29.971
Liverpool	29.974
Parsonstown	29.976
Valencia	29.984
Roche's Point	29.979
Pembroke	29.977
Silly	29.997
Jersey	30.002
Hurst Castle	29.994
Dover	29.985
LONDON	29.995
Oxford	29.993
Cambridge	29.989
Yarmouth	29.980



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 May.)

STATIONS.	TEMPERATURE.				RAINFALL. (Inches.)
	Daily Max.	Daily Min.	at 8 a.m. Dry.	Wet.	
Sumburgh Head	50.2	39.9	45.9	43.9	1.71
Stornoway	52.9	40.7	48.4	46.0	2.04
Wick	53.7	40.4	47.9	45.2	1.02
Nairn	55.9	42.0	48.4	45.0	1.07
Aberdeen	55.0	41.7	48.9	45.3	1.90
Leith	57.8	42.2	50.1	46.7	1.05
Shields	54.2	43.1	49.1	45.9	1.73
York	59.3	41.6	49.0	46.4	1.71
Loughborough	61.6	42.2	51.2	47.6	1.96
Ardrossan	59.2	43.7	49.3	46.4	2.20
Donaghadee	55.9	43.6	49.6	47.3	2.16
Holyhead	56.0	46.1	50.3	47.8	1.88
Liverpool	57.5	44.7	50.6	46.8	1.74
Parsonstown	59.2	42.3	51.0	47.7	2.23
Valencia	58.1	45.9	52.8	49.5	2.89
Roche's Point	59.6	48.6	51.7	48.7	3.05
Pembroke	55.1	46.0	49.9	47.4	1.97
Silly	56.3	48.2	52.7	50.3	1.00
Jersey	59.3	47.1	53.5	50.4	1.74
Hurst Castle	58.3	45.3	51.3	49.7	1.70
Dover	56.8	40.8	52.8	49.2	1.77
LONDON	62.1	44.1	52.4	48.4	1.73
Oxford	60.5	43.9	50.6	47.4	1.83
Cambridge	61.7	41.8	51.3	48.1	1.70
Yarmouth	55.4	44.8	50.5	48.0	1.85

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



GENERAL SITUATION AT 8 A.M.

PRESSURE

Highest, 30.0 ins. and upwards, in an anticyclone lying over Sweden.
Lowest, 29.3 ins. and less, in a depression lying off the southwest of Ireland.
Gradient moderate over the west of our Islands, but slight elsewhere.

Barometer falling a little in Spain and the west and north of France and the southeast of England, but rising in nearly all other localities.

TEMPERATURE

Highest, 63° at Wexford, 62° at Stockholm and Rindin, 61° at Nice, 60° at Paris, and 58° at Copenhagen, Cambridge and Perpignan.

Lowest, 46° at Kapananda, 45° at York, Bismarck, Malin Head, Belmullet and Donaghadee, and 50° at Lumburgh, Wick, Skelton and Penryn.
The highest maxima registered over our Islands yesterday were 64° at Cambridge, and 63° at Kilmalee, Loughborough, Plymouth, and in London.

WIND

SE or S over our Islands, the North Sea, Denmark, the Netherlands and North Germany, fresh or strong in force at several of our western stations.
Moderate from S. or SW. over the Bay of Biscay and the northwest of France, light from the same quarter in the southeast of France.

Calm at Rostov; variable over the greater part of Scandinavia.

WEATHER

Rainy over the northeast of England, and dull on our extreme west and northwest coasts as well as in the west of France.
Fine in most other localities, but rainy at Skudomass.

Since yesterday morning rain has fallen in many parts of the United Kingdom, the largest amount being 0.5 in. at Valencia.

SEA

Rather rough at Lumburgh, Valencia, and Penryn, but moderate to smooth elsewhere.

PROBABLE CHANGES IN SYSTEM NOW PREVALENT

FORECASTS

For the 24 hours ending at NOON on 10th May 1890.

DISTRICTS.

FORECASTS.

DISTRICTS.

FORECASTS.

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



None Issued

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

None Issued

WARNINGS

None Issued.

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

YESTERDAY'S 2 P.M. REPORTS.

	BAR:	THER:		WIND		WEA.	SEA		BAR:	THER:		WIND		WEA.	SEA
		D.	W.	D.	F.					D.	W.	D.	F.		
Skudesnaes ...	29.75	62	53	SE	4	o	4		Holyhead ...	29.59	54	50	SW	4	c
Sumburgh Head ...	29.46	49	48	SE	5	o	6		Valencia ...	29.26	50	49	ESE	6	rm
Stornoway ...	29.27	51	51	SE	4	c	3		Scilly ...	29.54	52	50	S	4	p
Aberdeen ...	29.43	57	52	SSE	4	bc	4		Jersey ...	29.76	60	54	ESE	4	b
Shields ...	29.51	60	54	SW	4	c	2		Dungeness ...	29.78	56	52	SW	5	bc
Ardrossan ...	29.48	52	50	SW	3	o	2		London ...	29.74	60	53	SSE	3	bc
Malin Head ...	29.44	51	48	NW	1	c	2		Yarmouth ...	29.70	62	53	WSW	4	bc
Mullaghmore ...	29.42	54	49	NNF	2	cm	2		Rochefort ...	29.72	61	56	S	2	o
Belmullet ...	29.40	54	54	SSE	3	o	*								

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

Weather fair at most of the English stations and also over the greater part of the Continent, but rainy in many parts of Ireland and Scotland. Rain also reported at Bodo and Kier and dull weather in Portugal and Algeria. Thunder and lightning occurring later at some of the French and Danish stations; slight rain falling in nearly all parts of Western Europe.

Temperature highest 60° and upwards over the Netherlands and Southern and Eastern Europe generally (Rindia 65°, Barcelona 67°, Sevin 66°, and Trieste, Leghorn, and La Balle 65°). Lowest 44° at Bodo and Haparanda, 47° at Malin Head, and 48° at Archangel, Lumburgh, Wick and Aberdeen. Daily maxima over our Islands below 60° in the western, and below 65° in the more eastern and central districts. Thermometers exceeding 70° in most parts of Southern Europe and also in Algeria, the highest reading of all being 86° at Rindia.

Wind moderate to strong from the SWnd over England, the Channel, and the north of France, and from the SEnd in the west of Ireland, as well as over the North Sea, Norway, and the north and east of Scotland. Light from the NWnd over the Baltic and Eastern Germany, and from the NWnd in the south of Italy, but variable or E in Spain, the south of France and Western Germany. Subsequently increasing to a moderate gale from the SWnd at the mouth of the Channel.

Barometer highest 30.0 ins. and upwards, in an elongated anticyclone extending from Austria to the central parts of Scandinavia and also in another area lying over central Russia. Lowest 29.4 ins. and less, in a depression lying over Scotland, as well as in another system lying to the southward of Ireland. Both disturbances subsequently moving away in a northwesterly direction over the Atlantic but shallow system beginning to appear in the neighbourhood of the Pyrenees.

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 advances.

DAILY WEATHER REPORT.

for *Monday, 19th May, 1890.*
 Issued by the Meteorological Office, 63, Victoria Street, London. *R. H. SCOTT, Secretary.*

STATIONS.	YESTERDAY EVENING.						8 A.M. TO DAY.										PAST 24 HOURS.		
	BAROM.	TEMP.	WIND.		Weather.		BAROMETER.		SHADE TEMP.			WIND.		Weather.	Sea.		SHADE TEMP.		
	Reading at 32° F. and Sea Level.	Dry.	Dirac.	Force. (0 to 12.)			Reading at 32° F. and Sea Level.	Difference from 8 a.m. yesterday.	Dry.	Wet.	Difference from 8 a.m. yesterday.	Dirac.	Force. (0 to 12.)				Max.	Min.	Amount of Rainfall.
Haparanda ...	30.02	44	Z	0	bc		30.09	+ .14	54	50	+ 8	N	2	b	*		55	37	
Hernösand ...	30.08	49	Z	0	b		30.13	+ .06	55	50	+ 2	Z	0	b	*		66	39	
Stockholm ...	30.11	58	0	2	b		30.18	+ .10	66	55	+ 4	SW	2	b	*		72	45	
Wisby ...	30.08	52	SSE	4	b		30.06	+ .04	61	52	+ 6	ESE	4	b	*		68	43	
Bodo ...	30.06	50	Z	0	c		30.11	+ .14	57	49	+ 6	SE	1	b	1		?	45	
Christiansund ...	30.03	56	ESE	1	b		30.08	+ .20	64	53	+ 8	SSW	2	m	1		52		
Skudesnaes ...	30.00	55	Z	0	0		30.03	+ .11	62	52	+ 11	E	4	b	3		?		
Christiania Fjord (Farther)	30.08	59	Z	0	b		30.11	+ .06	56	53	+ 2	N	3	b	1		61	54	
Skagen (The Scaw)	30.05	56	Z	0	b		30.09	+ .09	58	54	+ 9	E	1	b	0		72	55	
Panö ...	29.97	55	ESE	5	b		29.94	+ .03	59	53	+ 4	E	5	b	*		72	52	
Sumburgh Head	29.86	50	SSE	1	bc		29.88	+ .13	50	50	0	ESE	1	0	4		56	46	0.01
Stornoway ...	29.60	59	E	3	0		29.80	+ .13	54	52	+ 2	E	2	0	2		59	44	
Wick ...	29.81	45	S	3	c		29.86	+ .10	49	49	- 1	S	1	r	1		57	45	0.30
Nairn ...	29.72	58	SSE	4	c		29.82	+ .12	51	49	0	Z	0	c	1		64	46	
Aberdeen ...	29.83	49	SE	2	c		29.86	+ .09	49	48	- 3	N	1	at	2		58	46	0.69
Leith ...	29.74	55	E	2	c		29.82	+ .12	50	49	- 6	ESE	2	om	*		61	48	
Shields ...	29.77	50	E	2	0		29.80	+ .05	51	50	+ 1	NNE	1	r	3		51	47	0.06
Spurn Head ...	29.73	52	ESE	4	c		29.75	+ .01	54	53	+ 4	Z	0	cm	0		57	49	0.10
York ...	29.75	58	E	2	0		29.78	+ .03	53	52	+ 4	NNE	1	0	*		63	48	0.02
Loughborough	29.74	62	SSE	2	c		29.78	+ .06	58	54	+ 3	NE	1	cmw	*		67	41	
Ardrossan ...	29.70	57	ESE	2	0		29.79	+ .24	54	52	+ 1	ESE	3	om	2		57	49	
Malin Head ...	29.56	57	SSE	5	b		29.74	+ .26	52	50	+ 3	SE	4	bm	2		60	47	
Mullaghmore ...	29.59	58	SE	5	bcv		29.70	+ .28	53	48	+ 2	E	5	bc	2		58	47	0.02
Belmullet ...	29.49	57	SSW	3	c		29.67	+ .28	51	49	+ 2	ESE	4	0	*		60	46	0.18
Donaghadee ...	29.67	54	S	2	b		29.78	+ .19	53	52	+ 4	E	2	c	0		56	47	0.01
Liverpool (Bidston)	29.60	58	ESE	3	bc		29.76	+ .11	59	54	+ 4	ESE	1	m	2		60	49	
Holyhead ...	29.66	58	SW	1	b		29.74	+ .15	58	54	+ 7	Z	0	bc	0		61	47	0.01
Parsonstown ...	29.53	54	SE	1	bc		29.64	+ .19	52	48	+ 2	ESE	2	0	*		59	48	0.03
Valencia ...	29.37	51	ESE	6	op		29.54	+ .24	51	50	- 1	ESE	4	bc	5		54	45	0.80
Roche's Point...	29.47	52	SSE	6	c		29.58	+ .19	53	49	0	SSE	4	bc	4		55	48	0.10
Pembroke (St. Ann's Hd.)	29.64	52	S	5	b		29.71	+ .14	52	51	+ 1	SE	4	bw	4		55	47	
Scilly ...	29.57	54	S	5	bc		29.63	+ .13	55	53	+ 1	SSE	3	b	4		56	51	0.02
Prawle Point ...	29.70	52	SSE	3	bc		29.73	+ .08	51	48	0	SE	1	0	1		55	46	
Jersey (St. Aubin's)	29.71	57	SE	3	bc		29.72	+ .01	52	50	- 3	NE	2	ogmt	2		60	45	0.04
Harst Castle ...	29.74	56	SSE	2	c		29.74	+ .02	54	53	+ 1	E	2	r	2		60	52	
Dungeness ...	29.75	57	WSW	1	bc		29.72	- .02	59	54	+ 5	NE	1	bc	1		60	48	
London ...	29.76	59	SSW	2	bc		29.74	+ .01	58	54	+ 2	NNE	1	m	*		66	44	0.03
Oxford ...	29.76	55	SE	1	b		29.75	+ .04	55	52	0	E	1	bc	*		61	44	
Cambridge ...	29.77	61	SW	1	b		29.75	+ .02	60	56	+ 1	N	1	bc	*		69	45	
Yarmouth ...	29.78	54	SSE	2	bc		29.75	- .02	56	54	+ 3	E	1	b	2		57	51	
Cuxhaven ...	29.88	61	E	3	b		29.90	+ .03	59	56	+ 1	ESE	4	b	*		69	57	
Berlin ...	29.91	66	E	3	b		29.94	- .01	59	58	- 3	ESE	3	r	*		78	57	
Wiesbaden ...	*	*	*	*	*		29.83	- .00	62	58	- 1	SW	2	b	*		77	52	
Munich ...	29.86	55	E	3	bc		29.90	+ .01	57	53	+ 1	NE	2	b	*		66	41	
The Helder ...	29.77	60	E	2	bc		29.79	- .05	62	59	+ 5	ESE	1	b	1		68	57	0.08
Brussels (9 a.m.)	*	*	*	*	*		29.76	?	67	58		ESE	1	b	*		75	58	0.71
Cape Gris Nez	?	55	SW	2	0		?	?	52	52	- 6	E	3	?	1		61	50	
Paris ...	29.76	62	NNE	1	bc		29.73	- .04	59	58	- 1	ESE	2	?	*		74	52	0.28
Brest ...	29.68	55	SW	5	b		29.67	+ .05	54	52	+ 2	S	1	0	3		63	48	
Lorient ...	29.72	56	SW	4	bc		29.69	+ .01	51	49	- 3	ESE	2	0	4		61	48	
Rocheport ...	29.82	59	WNW	3	0		29.62	- .14	55	55	+ 1	ESE	4	r	?		63	48	0.16
Belfort ...	29.80	67	W	1	b		29.82	- .04	58	46		NW		b	*		77	55	
Lyons ...	29.78	64	SSW	2	b		29.79	- .04	59	53	+ 2	S	1	c	*		71	51	0.32
Nice ...	29.89	59	SW	4	c		29.93	+ .06	55	53	- 6	E	2	r	1		70	52	0.08
Perpignan ...																			
Biarritz ...																			
Corunna ...	29.73	58	ESE	3	r		29.69	- .06	54	51	0	WNW	6	r	3		63	52	1.26
Lisbon ...	29.84	54	WNW	3	c		29.92	+ .06	54	50	- 2	WNW	2	b	4		61	50	0.32

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

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

WEATHER CHARTS

for 8 a.m. on

Monday, 19th May,

1890.

BAROMETER, WIND AND SEA.

EXPLANATION OF MAP.

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

Changes since previous morning are stated in words.

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

their barbs and feathers refer to forces thus—

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

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

⊙ = dead calm.

SEA DISTURBANCE—Where considerable, is shown thus:

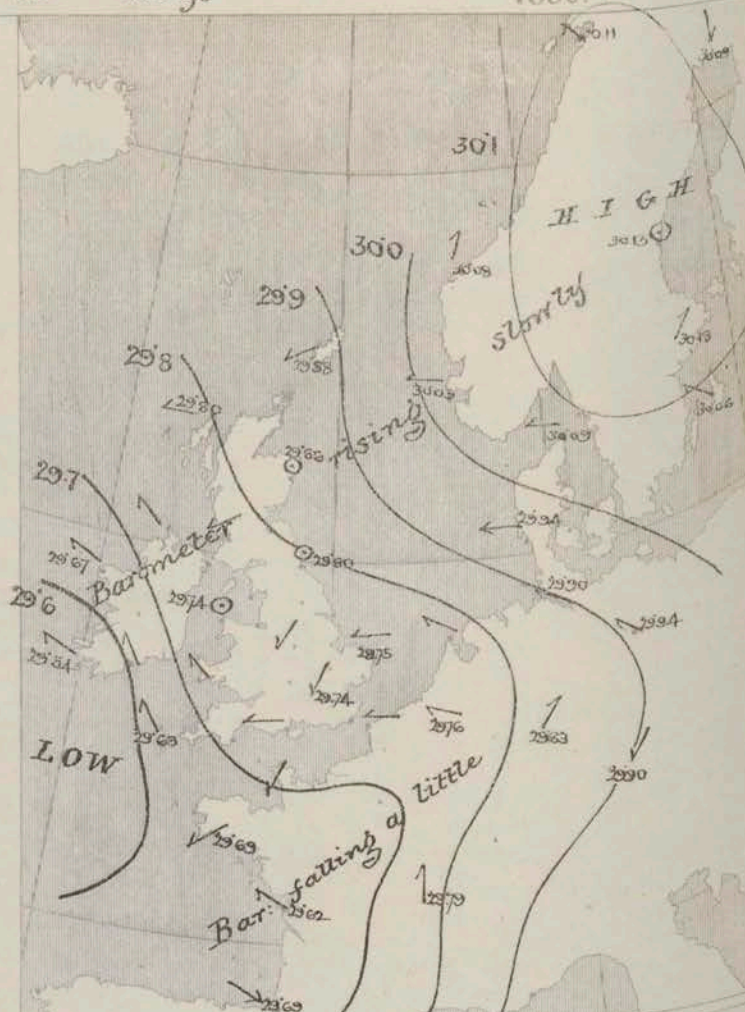
▨ = Rough. ▨ = High.

MEAN HEIGHT OF THE BAROMETER

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

During the 15 Years: 1871—1885.

STATIONS.	MEAN READINGS.
Sumburgh Head	29.878
Stornoway	29.893
Wick	29.906
Nairn	29.918
Aberdeen	29.922
Leith	29.942
Shields	29.955
York	29.974
Loughborough	29.984
Ardrossan	29.949
Donaghadee	29.959
Holyhead	29.971
Liverpool	29.971
Parsonstown	29.979
Valencia	29.984
Roche's Point	29.979
Pembroke	29.977
Sally	29.997
Jersey	30.002
Hurst Castle	29.994
Dover	29.985
LONDON	29.995
Oxford	29.993
Cambridge	29.989
Yarmouth	29.980



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.

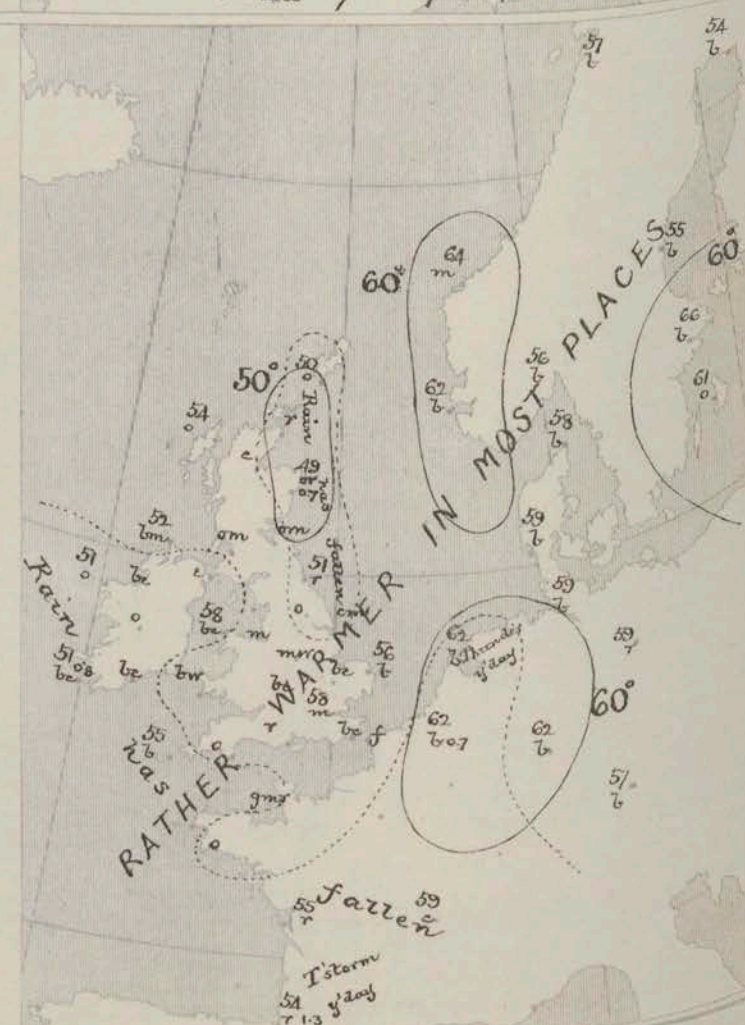
RAINFALL—A dotted line separates the districts in which rain has fallen from those where there has been none. Falls of 0.5 in. or more are quoted in figures.

MEANS OF TEMPERATURE IN SHADE, AND RAINFALL.

(For the month of May.)

STATIONS.	TEMPERATURE.				RAINFALL (Inches.)
	Daily Max.	Daily Min.	Dry.	Wet.	
Sumburgh Head	50.2	39.9	45.9	43.9	1.71
Stornoway	52.0	40.7	48.4	46.0	2.64
Wick	53.7	40.4	47.9	45.2	1.62
Nairn	55.9	42.0	48.4	45.0	1.67
Aberdeen	55.0	41.7	48.9	45.3	1.90
Leith	57.8	42.2	50.1	46.7	1.63
Shields	54.2	43.1	49.1	45.9	1.75
York	59.3	41.6	49.6	46.4	1.71
Loughborough	61.6	42.2	51.2	47.6	1.96
Ardrossan	56.2	43.7	49.3	46.4	2.20
Donaghadee	55.9	43.6	49.5	47.3	2.15
Holyhead	56.0	46.1	50.3	47.8	1.88
Liverpool	57.5	44.7	50.6	46.8	1.74
Parsonstown	59.3	42.3	51.0	47.7	2.23
Valencia	58.1	45.9	52.8	49.5	2.89
Roche's Point	59.6	46.0	51.7	48.7	3.05
Pembroke	55.1	46.0	49.9	47.4	1.97
Sally	56.3	48.2	52.7	50.3	1.66
Jersey	59.3	47.1	53.5	50.4	1.74
Hurst Castle	58.3	45.3	51.3	49.7	1.79
Dover	50.8	40.8	52.8	49.2	1.77
LONDON	62.1	44.1	52.4	48.4	1.73
Oxford	60.5	43.9	50.6	47.4	1.83
Cambridge	61.7	41.8	51.4	48.1	1.76
Yarmouth	55.4	44.8	50.5	48.0	1.85

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



GENERAL SITUATION AT 8 A.M.

PRESSURE

Highest, 30.0 in: to 30.1 in: and more over Scandinavia, 29.7 in: to 29.9 in: and more, over the Spanish Peninsula.
 Lowest, 29.6 in: and less, in a depression off our southwestern coast; 29.7 in: and less, in secondary disturbances over France.
 Gradient slight and irregular; mainly favourable for SE and E winds in our islands.
 Barometer falling a little at the French stations, rising slightly in the north of our islands and in Norway.

TEMPERATURE

Highest, 66° at Stockholm, 64° at Christiansund, 62° at Westaden, Brussels, and Skudsmos, 60° at Cambridge, and 58° in London.
 Lowest, 49° at Wick and Aberdeen, 50° at Greenburgh Head and Lough, and 51° at Skerries.
 It was as high as 72° in Denmark and at Stockholm yesterday afternoon, and 60° to 63° over England, while in Germany it rose to 77°.

WIND

Moderate from SE. in Ireland and from E. on the eastern shores of the North Sea and in the northwest of France.
 Very light and variable over Great Britain, apparently W^{ly} over the Spanish Peninsula, and S^{ly} at Lyons.

WEATHER

Fine over Scandinavia and Denmark, and locally, in some other parts of our area; changeable elsewhere, dull in many places and close in some, and raining at several southern stations. Rain fell in many places yesterday—heavily in certain localities, e.g. 1.3 in: at Biarritz, 0.7 in: at Brussels, 0.8 in: at Valencia, and 0.7 in: at Montevideo. Thunder occurred at some Continental stations.

SEA

Rather rough at Valencia, moderate off our southwestern coast, slight or smooth elsewhere.

PROBABLE CHANGES IN SYSTEM NOW PREVALENT

Thunderstorm disturbances appear to be advancing towards us from the southward, and are likely to cause local storms on the southern half of our islands.

FORECASTS

For the 24 hours ending at NOON on 20th May. 1890.

DISTRICTS.

FORECASTS.

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

Varying NE^{ly} to SE^{ly} winds, light; changeable, rain at times.
 Varying E^{ly} and NE^{ly} airs; dull, close, rain at times, and thunder, very unsettled.

DISTRICTS.

FORECASTS

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

Same as Nos 0 and 1.
 E^{ly} and SE^{ly} breezes, light; changeable, fair to showery.
 SE^{ly} breezes, light; rain at times, showery.

WARNINGS

NONE ISSUED.

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

YESTERDAY'S 2 P.M. REPORTS.

	BAR:	THER:		WIND		WEA.	SEA		BAR:	THER:		WIND		WEA.	SEA
		D.	W.	D.	F.					D.	W.	D.	F.		
Skudesnaes ...	29.98	54	51	SW	1	7	3	Holyhead ...	29.65	60	53	SSW	3	6	3
Sumburgh Head ...								Valencia ...							
Stornoway ...	29.70	59	57	S	3	6	3	Scilly ...							
Aberdeen ...								Jersey ...	29.72	59	57	SSE	3	60	3
Shields ...								Dungeness ...	29.76	58	54	WSW	1	60	3
Ardrossan ...								London ...							
Malin Head ...	29.51	58	49	SSE	5	60	2	Yarmouth ...							
Mullaghmore ...								Rocheport ...	29.78	61	57	W	3	0	2
Belmullet ...	29.46	56	50	SE	3	C	*								

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

Weather fair over the greater part of our Islands and the Continent, but dull on our extreme northwest coast and in the west of France, foggy at some of the Italian stations, and rainy in the northeast of England. Rain falling during day in many parts of western Europe, the largest amounts being 1.3 ins. at Lyons (where a thunderstorm occurred) 0.8 in. at Aberdeen and Brussels. Thunder also occurring at the Helles in the evening.

Temperature highest 60° and upwards over the Mediterranean, and Adriatic, as well as at several of the German and Russian stations (71° at Spaa, 68° at La Halle and Constantinople, 67° at Palma, and 66° at Trieste and Brindisi). Lowest 38° at Archangel, 44° at Uleaborg, 46° at Haparanda, and 49° at Stockholm, Malin Head, Belmullet, Donaghadee and Hermannstadt. Highest daily maxima over our Islands, 69° at Cambridge, 67° at Loughborough, and 66° in London, the thermometer exceeding 70° in many parts of western and southern Europe.

Wind SE⁴ or S⁴ over our Islands, the North Sea, Denmark, the Netherlands and north Germany, fresh or strong in force at several of our western stations. Light from the N^{ad} over Finland and the Baltic, and from the NE^{ad} or E^{ad} in many parts of central and eastern Europe. S⁴ or SW⁴ over Spain and the Bay of Biscay, variable in Italy & Algeria.

Barometer highest 30.0 ins. and upwards over Finland, Sweden and the Baltic, and also over central Russia; 29.9 ins. and upwards over the south of Italy, and also over Morocco. Lowest 29.3 ins. and less in a depression lying to the southwest of Ireland; 29.7 ins. and less in another disturbance lying over the Black Sea; 29.8 ins. and less in a third system lying over Archangel. High pressure system over Scandinavia subsequently spreading eastwards towards our north coast, but small shallow depression appearing over France.

SUMMARY OF CHANGES IN THE WEATHER OVER THE BRITISH ISLANDS AND THEIR NEIGHBOURHOOD FROM THE 11TH TO THE 17TH MAY 1890

The weather of the past week was mostly fair over the southeastern parts of England, but very unsettled in the west and north, with frequent, and in some cases heavy, falls of rain. Solar halos were occasionally seen over England, and thunderstorms occurred in many parts of Great Britain.

During the early part of the period barometric pressure was highest over northern Europe, but somewhat high over Spain, and the winds over the United Kingdom were therefore somewhat variable. Two depressions were observed in the neighbourhood of our Islands.

The first a small and very shallow disturbance advanced northwards from central France at the close of the previous week, and subsequently travelled in a north-northwesterly direction along the east coast of Great Britain to the north of Scotland, occasioning heavy rain at some of our eastern stations.

The second a somewhat larger system travelled northwards on the 12th and 13th from the south of France to Holland and Denmark, but did not materially affect the weather of our Islands.

On the 14th and 15th the high pressure system over northern Europe gave way, while that over Spain increased in height and moved northeastwards to France and Germany. The wind over our Islands therefore shifted to the SW^{ad}, and depressions began to appear in the neighbourhood of our west coast.

The first, a large but not very deep system appeared off our northwest coasts on the 15th, and afterwards travelled away to the northwards. Its progress was attended by freshening S⁴ winds and rain in the west and north generally.

The second, a rather complex disturbance moved northwards along the St. George's Channel on the 16th, and produced heavy rain in the west and north generally, with strong S⁴ & SW⁴ winds in the SW. and S. of England.

The third a larger and deeper depression appeared off the SW. of Ireland on the morning of the 17th, and occasioned strong SE⁴ winds on our southwest coasts. Later in the day the disturbance travelled away again in a northwesterly direction.

Temperature has been as a rule somewhat low for the time of year, but on the 16th the daily maxima over England rose to between 65° and 70°.

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 20TH MAY.

1890.

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

STATIONS.	YESTERDAY EVENING.					8 A.M. TO DAY.										PAST 24 HOURS.		
	BAROM.	TEMP.	WIND.		Weather.	BAROMETER.		SHADE TEMP.			WIND.		Weather.	Sea. (0 to 9.)	SHADE TEMP.		Amount of Rainfall.	
	Reading at 32° F. and Sea Level.	Dry.	Dirce.	Force. (0 to 12.)		Reading at 32° F. and Sea Level.	Difference from 8 a.m. yesterday.	Dry.	Wet.	Difference from 8 a.m. yesterday.	Dirce.	Force. (0 to 12.)			Max.	Min.		
SCANDINAVIA.																		
Haparanda ...	30.19	48	2	0	c	30.20	+11	53	52	-1	2	2	c	*	70	32	-	
Hernösand ...	30.20	51	2	0	c	30.21	+08	54	49	-1	2	2	c	*	70	32	-	
Stockholm ...	30.19	51	SE	2	c	30.17	-01	66	55	0	2	2	c	*	77	50	-	
Wisby ...	30.03	57	SE	4	c	30.06	0.0	67	58	+6	2	2	c	*	68	46	-	
Bodö ...	30.18	50	N	1	c	30.07	-04	57	51	0	1	1	c	1	57	45	-	
CHRISTIANIA.																		
Christiansund ...	30.05	64	2	0	c	29.99	-09	62	56	-2	1	1	c	1	68	53	-	
Skudesnaes ...	30.01	59	2	0	c	29.96	-07	61	52	-1	1	1	c	2	63	54	-	
Christiania Fjord (Færder)																		
Skagen (The Scaw)	29.99	57	NE	1	c	29.96	-13	57	56	-1	1	1	c	2	66	54	0.16	
Fanö ...	29.89	59	E	4	c	29.86	-08	56	53	-3	4	4	c	*	70	54	0.08	
SCOTLAND.																		
Sumburgh Head	29.92	51	E	2	c	29.91	+03	53	50	+3	1	1	c	4	53	46	-	
Stornoway ...	29.82	56	E	4	o	29.76	-04	50	49	-4	5	5	c	5	61	48	-	
Wick ...	29.85	50	S	1	o	29.85	-01	53	53	+6	2	2	c	2	56	46	0.15	
Nairn ...	29.83	52	ENE	2	o	29.79	-03	49	49	-2	1	1	c	1	60	49	0.01	
Aberdeen ...	29.86	49	NE	1	om	29.80	-06	51	50	+2	2	2	c	2	52	47	0.07	
ENGLAND.																		
Leith ...	29.81	50	E	2	o	29.72	-10	49	49	-1	2	2	c	*	51	47	0.01	
Shields ...	29.79	50	N	2	o	29.69	-11	52	51	+1	2	2	c	2	53	46	0.05	
Spurn Head ...	29.70	53	NE	3	c	29.70	-05	53	53	+1	4	4	c	3	60	49	0.03	
York ...	29.75	60	ENE	1	o	29.66	-12	59	59	+6	2	2	c	*	65	50	0.13	
Loughborough	29.69	62	ENE	2	o	29.65	-13	53	50	-3	3	3	c	*	70	53	0.15	
IRELAND.																		
Ardrossan ...	29.78	57	NNE	3	om	29.63	-16	52	51	-2	3	3	c	2	61	49	0.08	
Malin Head ...	29.74	55	ENE	3	c	29.60	-14	51	50	-1	4	4	c	2	56	50	0.02	
Mullaghmore ...	29.72	59	E	3	c	29.57	-13	53	52	0	1	1	c	2	60	48	0.01	
Belmullet ...	29.71	55	N	3	o	29.58	-09	52	48	+1	2	2	c	*	58	48	0.20	
Donaghadee ...	29.76	59	NE	2	c	29.60	-18	51	50	-2	3	3	c	1	59	50	0.23	
BRITISH ISLANDS.																		
Liverpool (Bidston)	29.71	54	NW	1	p	29.58	-18	53	51	-4	4	4	c	3	62	53	0.37	
Holyhead ...	29.73	53	NNW	1	omg	29.52	-22	53	54	-3	4	4	c	3	61	51	0.08	
Parsonstown ...	29.70	58	2	0	c	29.52	-12	54	53	+2	1	1	c	*	61	46	0.14	
Valencia ...	29.67	53	SE	4	c	29.58	+04	52	50	+1	1	1	c	1	56	42	-	
Roche's Point...	29.71	53	SE	4	c	29.51	-07	50	49	-3	4	4	c	4	57	45	0.25	
SCOTLAND.																		
Pembroke (St. Ann's Hd.)	29.69	53	N	3	o	29.47	-24	52	50	0	5	5	c	3	56	50	0.19	
Scilly ...	29.67	52	N	2	c	29.48	-15	49	48	-6	6	6	c	4	54	47	0.57	
Prawle Point ...	29.74	52	NW	2	o	29.41	-32	49	49	-2	3	3	c	3	57	47	0.54	
Jersey (St. Aubin's)	29.59	58	NNE	3	omg	29.65	-07	49	47	-3	7	7	c	6	57	48	0.64	
Hurst Castle ...	29.61	58	NNE	2	c	29.56	-18	52	50	-2	8	8	c	5	57	50	0.73	
ENGLAND.																		
Dungeness ...	29.62	57	E	3	c	29.73	+01	54	51	-5	6	6	c	5	59	51	0.16	
London ...	29.67	65	SE	2	c	29.67	-07	54	49	-4	4	4	c	*	70	54	0.10	
Oxford ...	29.63	60	SE	1	c	29.62	-13	52	48	-3	3	3	c	*	67	50	0.10	
Cambridge ...	29.67	66	W	1	o	29.70	-05	54	50	-6	2	2	c	*	70	50	0.09	
Yarmouth ...	29.69	58	E	3	c	29.76	+01	53	53	-1	4	4	c	3	59	52	-	
FRANCE.																		
Cuxhaven ...	29.86	60	ENE	3	c	29.86	-04	58	56	-1	3	3	c	*	68	56	0.06	
Berlin ...	29.87	61	ENE	3	c	29.94	0.0	66	62	+7	3	3	c	*	70	57	0.39	
Wiesbaden ...						29.95	+12	62	59	0	0	0	c	*	75	59	-	
Munich ...	29.83	60	NE	3	c	29.99	+09	61	56	+4	4	4	c	*	72	48	-	
The Helder ...	29.74	64	E	1	c	29.84	+05	59	56	-3	2	2	c	2	68	57	-	
GERMANY.																		
Brussels (9 a.m.)						29.89	+13	58	53	-4	3	3	c	*	77	54	0.43	
Cape Gris Nez						29.89	+16	53	49	+1	5	5	c	*	70	50	0.16	
Paris ...	29.69	57	SW	2	c	29.89	+16	53	50	-4	3	3	c	*	73	49	0.20	
Brest ...	29.62	52	N	3	p	29.63	-04	53	50	-1	5	5	c	*	63	46	0.24	
Lorient ...	29.53	50	NNE	4	p	29.70	+01	52	50	+1	6	6	c	6	54	46	0.91	
FRANCE AND BELGIUM.																		
Rochefort ...	29.74	53	SW	6	p	29.86	+24	56	52	+1	5	5	c	2	61	45	0.12	
Belfort ...	29.89	61	W	1	p	29.99	+17	53	43	+2	1	1	c	*	79	51	0.04	
Lyons ...	29.78	61	S	4	c	30.04	+25	48	47	-11	1	1	c	*	70	47	0.47	
Nice ...	29.95	57	NE	1	c	30.01	+08	58	56	+3	2	2	c	1	61	54	0.16	
Perpignan ...	29.76	66	S	3	c	29.95	+19	60	55	-5	1	1	c	*	77	50	-	
Biarritz ...	29.82	59	W	3	c	29.95	+26	52	48	-2	3	3	c	2	59	50	0.04	
SPAIN.																		
Corunna ...																		
Lisbon ...	29.99	55	NW	3	c	30.05	+13	57	52	+3	2	2	c	5	61	52	-	

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

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

Tuesday, 20th May,

1890

BAROMETER, WIND AND SEA.

EXPLANATION OF MAP.

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

Changes since previous morning are stated in words.

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

their barbs and feathers refer to force thus—

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

$\rightarrow = \text{forces } 5 \text{ to } 7; \rightarrow = \text{forces } 1 \text{ to } 4.$

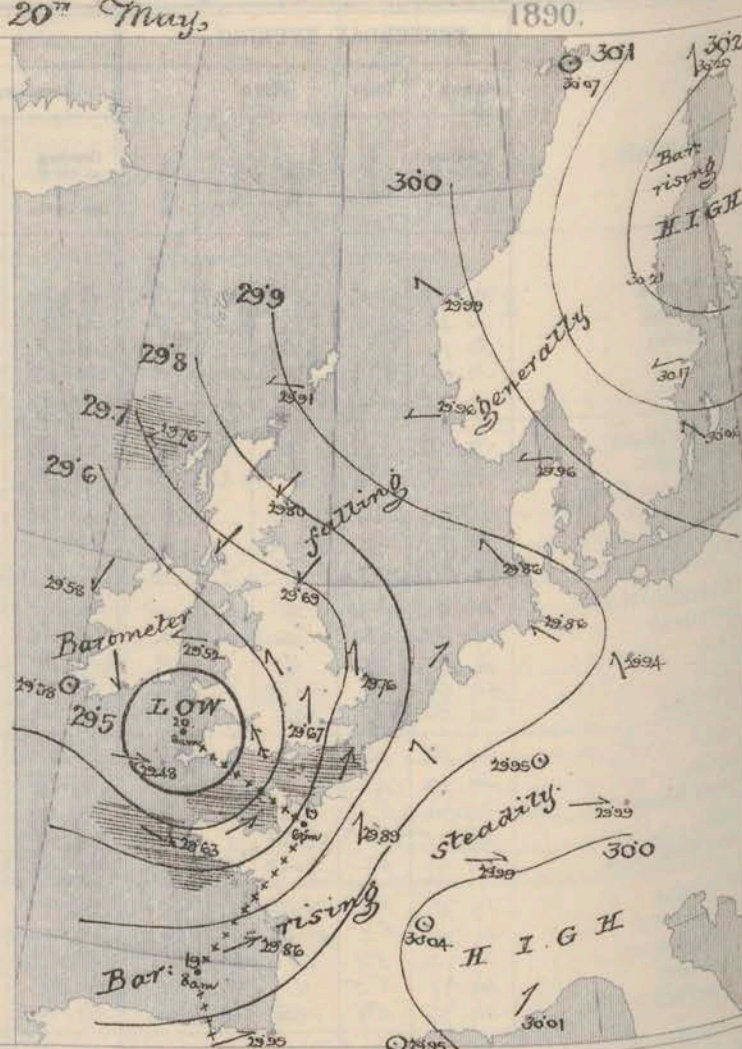
SEA DISTURBANCE—Where considerable, is shown

MEAN HEIGHT OF THE BAROMETER

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

During the 15 Years: 1871—1885

STATIONS.	MEAN READINGS.
Sumburgh Head	29.878
Stornoway	29.893
Wick	29.906
Nairn	29.918
Aberdeen	29.922
Leith	29.942
Shields	29.955
York	29.974
Loughborough	29.981
Ardrossan	29.949
Donaghadee	29.959
Holyhead	29.971
Liverpool	29.974
Parsonstown	29.976
Valencia	29.984
Roche's Point	29.979
Pembroke	29.977
Scilly	29.997
Jersey	30.002
Hurst Castle	29.994
Dover	29.985
LONDON	29.995
Oxford	29.993
Cambridge	29.989
Yarmouth	29.980



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

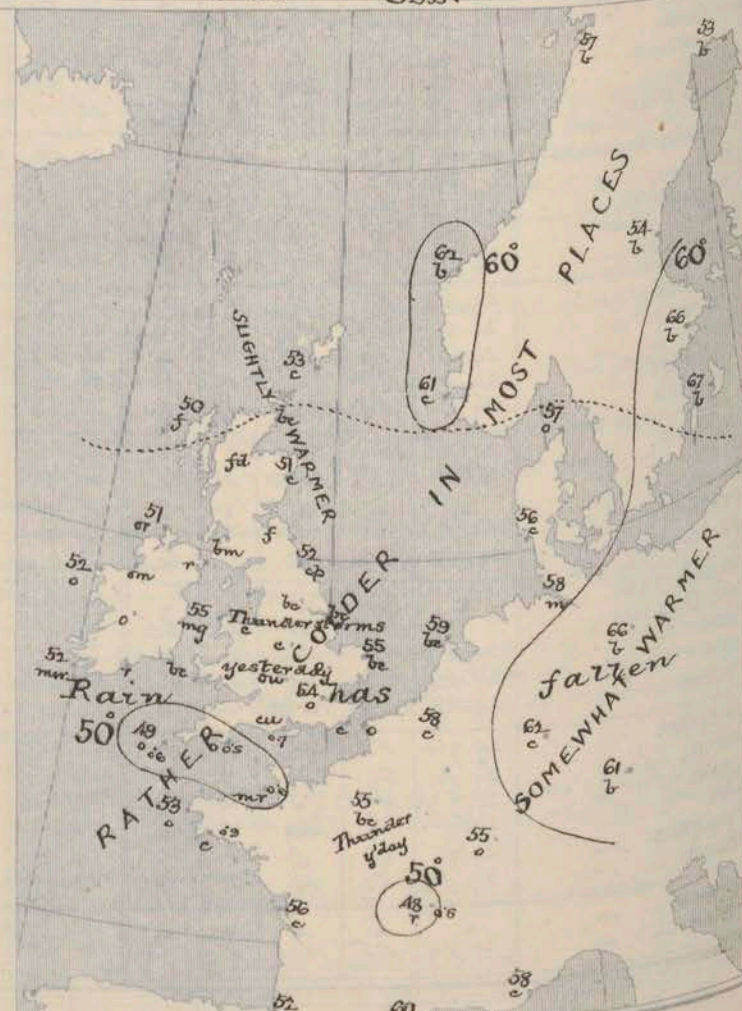
TEMPERATURE—Isotherms are drawn for each 10°. Changes since previous morning are stated in words.

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 May.)



GENERAL SITUATION AT 8 A.M.

PRESSURE

Highest, 30.0 in: to 30.2 in: over Sweden, Norway and Finland; 29.9 in: to 30.0 in: and more over France and Spain.
 Lowest, about 29.4 in: in the centre of a depression over Cornwall; and 29.6 in: and less over Ireland.
 Gradients somewhat steep over the Channel and south of England, moderate to slight elsewhere.
 Barometer rising over France and the south and east of England, falling in the west and north.

TEMPERATURE

Highest, 67° at Marseilles, 66° at Stockholm and Berlin, 62° at Christiania and Narvik, 58° at Brussels, 57° at Lisbon.
 Lowest, 49° at Kairi, Seilly, Jersey, and Harlebourg; 52° at Oxford, Hunt-Castle and Lorient.
 It rose to between 60° and 70° over England during yesterday, but fell fast at night.

WIND

Light from E. and N.E. in Ireland, from E. in Scotland and Norway.
 S. fresh to gale over England and the Channel.
 S.W. strong in the north of France,
 W. very light in the southeast of France, and apparently over France.

WEATHER

Bell, changeable, and showery over our islands, finer on the Continent. Thunder and lightning occurred very generally over England yesterday or last night, with a good deal of rain in the south of England, and at Lorient. In London the lightning flashes were very frequent but thunder was not heard.

SEA

Rough in the Channel, the Bay of Biscay, and at Norway, slight or smooth on our other coasts.

PROBABLE CHANGES IN SYSTEM NOW PREVALENT

As the disturbance passes northwards a temporary improvement of weather is likely to occur over England but the distribution of pressure is still of an unsettled type.

FORECASTS

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

DISTRICTS.

FORECASTS.

DISTRICTS.

FORECASTS

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

E^{ly} and SE^{ly} winds, freshening; rain at times, then temporarily finer.

Wind veering SW^{ly} and moderating with temporary improvement in weather.

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

Same as Nos 0 to 2

SW^{ly} and S^{ly} winds, fresh; some showers.

Varying light winds, finally SW^{ly}, fresh; changeable, showery, thunder locally.

WARNINGS

NONE ISSUED.

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

YESTERDAY'S 2 P.M. REPORTS.

	BAR:	THER:		WIND		WEA.	SEA		BAR:	THER:		WIND		WEA.	SEA
		D.	W.	D.	F.					D.	W.	D.	F.		
Skudesnaes ...	29.04	63	52	S	2	5	3		Holyhead ...	29.75	58	54	NW	1	5
Sumburgh Head ...	29.91	52	51	ESE	2	0	4		Valencia ...	29.64	56	51	SE	5	3
Stornoway ...	29.81	61	59	E	2	0	2		Scilly ...	29.68	54	52	SEW	1	3
Aberdeen ...	29.87	49	48	NE	2	0	2		Jersey ...	29.66	57	54	NNE	3	3
Shields ...	29.80	52	51	NNW	2	0	2		Dungeness ...	29.67	57	55	E	3	3
Ardrossan ...	29.78	60	57	NNE	3	C	2		London ...	29.67	67	62	E	2	2
Malin Head ...	29.75	55	52	E	4	C	1		Yarmouth ...	29.73	59	56	E	1	2
Mullaghmore ...	29.72	58	50	ESE	5	C	3		Rochefort ...	29.61	55	54	SEW	6	7
Belmullet ...	29.71	57	52	SEW	3	0	*								

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

Weather fine over the western parts of the United Kingdom, as well as over Scandinavia, Denmark, northern and central Russia and many parts of central and southern Europe. Raining over the northeast of Great Britain and at some of the Channel stations, as well as in Eastern Germany, the south and southwest of France and the north of Spain. Thunderstorms and heavy rain occurring later in many parts of England and France.

Temperatures 65° and upwards, over the central parts of the Mediterranean, and also at some of the Baltic stations (Laballe 71°, Munich and Brindisi 68°, Spas 67°, and Stockholm and Riga 66°;) above 60° on the west coast of Norway. Lowest 31° at Archangel, 45° at Madrid, 49° at Malmö and Aberdeen, 50° at Kuopio and Sumburgh Head and Leith, and 51° at Shields and Corunna. Subsequently rising to between 65° and 70° over the inland parts of England, and to 75° or more at Brussels and over some parts of central France.

Wind moderate or fresh from the End or SEnd in the west of our Islands, and also on the eastern shores of the North Sea; light from the NEnd at most of our eastern stations, as well as over the Baltic. Light from SE. over the greater part of France, but moderate to strong from the Wnd over Spain. Variable over Italy and Southern Europe. Well marked cyclonic circulation appearing later over France.

Barometer highest, 30.1 in: and upwards, over the greater part of Scandinavia and northern Russia, 29.9 in: and upwards over Italy and also over the extreme south of Spain. Lowest, 29.6 in: and less, in a depression lying to the southward of our Islands, and also in another shallow system lying over the southern part of the Bay of Biscay, 29.7 in: and less, in a third lying over Moldavia. Depression over Bay of Biscay subsequently moving northwards to the north of France, and barometer falling steadily in the south of our Islands.

EXPLANATION OF COLUMNS GIVEN ON PAGE 1.

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

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

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

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

DAILY WEATHER REPORT.

for *Wednesday, 21st May, 1890.*
Issued by the Meteorological Office, 63, Victoria Street, London. R. H. SCOTT, Secretary.

STATIONS.	YESTERDAY EVENING.					8 A.M. TO DAY.										PAST 24 HOURS.		
	BAROM.	TEMP.	WIND.		Weather.	BAROMETER.		SHADE TEMP.			WIND.		Sea. (0 to 9.)	SHADE TEMP.		Amount of Rainfall.		
	Reading at 32° F. and Sea Level.	Dry.	Dir.	Force. (0 to 12.)		Reading at 32° F. and Sea Level.	Difference from 8 a.m. yesterday.	Dry.	Wet.	Difference from 8 a.m. yesterday.	Dir.	Force. (0 to 12.)		Max.	Min.			
SCANDINAVIA.																		
Haparanda ...	30.02	49	E	1	0	29.94	- 36	48	47	- 5	SW	2	5	*	57	43	.	
Hernösand ...	30.09	53	N	0	0	29.97	- 24	51	54	+ 5	SW	4	6	*	70	43	.	
Stockholm ...	30.13	54	SE	2	bc	30.10	- 07	60	61	+ 3	W	2	6	*	73	50	.	
Wisby ...	30.06	60	S	2	b	30.08	+ 02	73	62	+ 6	ENE	4	6	*	75	50	.	
Bodö ...	29.95	58	N	0	0	29.92	- 15	48	47	- 9	SW	2	0	1	59	46	.	
CHRISTIANIA.																		
Christiansund ...	29.94	61	N	2	0	30.05	+ 06	58	54	- 4	WSW	4	7	3	73	57	.	
Skudesnaes ...	30.00	55	N	1	0	30.12	+ 16	51	50	- 10	N	0	0	2	66	50	0.16	
Christiania Fjord (Færd)	30.02	56	S	3	0	30.10		55	54		N	0	m	1	55	52	0.08	
Skagen (The Scaw)	30.02	57	SE	1	b	30.08	+ 12	59	57	+ 2	N	0	bc	0	66	54	0.24	
Fanø ...	30.03	54	W	4	c	30.09	+ 23	60	55	+ 4	W	4	6	*	70	50	.	
ENGLAND.																		
Sumburgh Head	29.92	53	E	2	0	30.01	+ 10	48	48	- 5	SE	1	7	4	58	46	.	
Stornoway ...	29.70	58	N	0	*	29.78	+ 02	55	53	+ 5	SE	4	8	4	60	47	0.03	
Wick ...	29.83	50	S	2	b	29.93	+ 08	53	51	- 2	S	3	bc	2	69	45	0.01	
Nairn ...	29.79	61	E	2	0	29.83	+ 04	56	51	+ 7	SE	3	bc	1	66	44	0.01	
Aberdeen ...	29.81	48	ESE	2	0†	29.94	+ 14	51	48	0	SE	4	6	4	55	46	.	
SCOTLAND.																		
Leith ...	29.67	56	E	3	b	29.86	+ 14	54	50	+ 5	S	1	c	*	60	49	0.02	
Shields ...	29.72	54	ESE	4	c	29.94	+ 28	54	51	+ 2	SW	3	0	3	57	47	.	
Spurn Head ...	29.81	57	S	5	bc	30.04	+ 37	56	52	+ 1	SW	4	6	4	58	48	.	
York ...	29.75	57	S	3	0	30.03	+ 37	56	51	- 3	S	3	bc	*	63	47	.	
Loughborough	29.76	55	SE	4	bc	30.04	+ 42	55	52	0	SW	4	0	*	58	47	.	
IRELAND.																		
Ardsrossan ...	29.63	57	NE	2	om	29.82	+ 19	52	51	0	SE	3	op	2	64	50	0.05	
Malin Head ...	29.54	59	SE	4	bm	29.71	+ 11	52	50	+ 1	SE	4	op	1	59	49	0.05	
Mullaghmore ...	29.53	59	ESE	5	b	29.76	+ 19	50	48	- 3	SE	4	op	2	59	50	0.02	
Belmullet ...	29.52	57	SE	3	0	29.71	+ 13	52	49	0	SE	2	0	*	57	50	0.06	
Donaghadee ...	29.61	53	NE	2	c	29.83	+ 23	51	50	0	WSW	4	c	2	56	50	0.02	
FRANCE AND BELGIUM.																		
Liverpool (Bidston)	29.62	51	ESE	5	0	29.94	+ 41	54	49	- 1	SE	2	c	3	58	49	0.06	
Holyhead ...	29.55	53	SE	3	op	29.92	+ 40	53	51	- 2	SW	5	op	4	62	49	0.07	
Parsonstown ...	29.50	58	N	0	c	29.74	+ 27	53	50	- 1	N	0	c	*	62	47	0.08	
Valencia ...	29.59	55	WSW	3	em	29.67	+ 09	52	51	0	ESE	6	em	6	57	50	0.13	
Roche's Point ...	29.56	50	SE	1	+	29.78	+ 27	52	51	+ 2	SE	5	+	4	54	47	0.50	
SPAIN.																		
Pembroke (St. Ann's Hd.)	29.58	50	S	4	0	29.95	+ 48	52	50	0	S	5	op	4	55	48	0.06	
Scilly ...	29.70	53	WSW	4	0	29.88	+ 40	53	52	+ 4	S	5	0	4	53	50	0.07	
Prawle Point ...	29.78	50	WSW	6	0	30.07	+ 66	51	50	+ 2	S	4	op	3	53	46	0.04	
Jersey (St. Aubin's)	29.87	54	W	3	op	30.13	+ 48	56	53	+ 7	SE	4	op	3	59	48	0.18	
Hurst Castle ...	29.85	53	SSW	7	c	30.14	+ 58	55	53	+ 3	SW	5	bc	4	61	49	.	
PORTUGAL.																		
Dungeness ...	29.89	54	WSW	4	cp	30.14	+ 41	55	52	+ 1	SW	3	bc	1	59	50	0.05	
London ...	29.87	56	S	2	bc	30.13	+ 46	55	50	+ 1	SW	2	bc	*	61	47	.	
Oxford ...	29.85	52	SE	3	b	30.11	+ 49	54	50	+ 2	S	5	b	*	55	47	.	
Cambridge ...	29.86	55	S	2	bc	30.12	+ 42	58	53	+ 4	S	1	b	*	61	45	.	
Yarmouth ...	29.88	56	S	4	b	30.12	+ 36	59	53	+ 4	WSW	3	b	2	61	49	.	
HOLLAND.																		
Cuxhaven ...	30.01	58	N	2	b	30.06	+ 20	58	55	0	NNE	3	+	*	68	58	.	
Berlin ...	29.92	74	SW	2	0	29.94	+ 05	70	64	+ 4	SE	3	b	*	81	63	0.04	
Wiesbaden ...	*	*	*	*	*	30.04	+ 09	60	57	- 2	WSW	4	0	*	70	57	0.08	
Munich ...	29.91	64	NE	2	b	30.08	+ 09	57	?	- 4	W	4	0	*	73	54	.	
The Helder ...	30.01	59	WSW	1	b	30.12	+ 28	59	56	0	SW	1	c	1	66	57	.	
FRANCE AND BELGIUM.																		
Brussels (9 a.m.)	*	*	*	*	*	30.14	+ 25	59	55	+ 1	W	1	b	*	67	54	.	
Cape Gris Nez	*	*	*	*	*	30.17	+ 28	55	52	0	W	1	b	*	65	43	.	
Paris ...	29.98	61	S	2	bc	30.00	+ 37	54	53	+ 1	S	4	0	6	63	46	.	
Brest ...	29.85	54	W	6	0	30.10	+ 40	55	52	+ 3	S	3	bc	4	57	52	.	
Lorient ...	29.93	55	W	5	c	30.10	+ 40	55	52	+ 3	S	3	bc	4	57	52	.	
SPAIN.																		
Rocheport ...	30.00	59	WSW	5	c	30.13	+ 27	53	53	- 3	SE	4	b	*	63	45	.	
Belfort ...	29.98	60	W	1	+	30.07	+ 08	54	44	- 1	W	1	0	*	70	51	0.24	
Lyons ...	30.03	52	WSW	1	+	30.15	+ 11	52	49	+ 4	WSW	2	0	*	59	?	0.20	
Nice ...	30.02	57	SW	4	c	30.01	00	57	55	- 1	W	2	b	0	64	52	0.08	
Perpignan ...	30.04	55	WSW	2	0	30.13	+ 18	59	54	- 1	SW	1	b	*	68	46	0.16	
Barritz ...	30.06	60	NE	3	b	30.13	+ 18	56	50	+ 4	ESE	4	b	2	66	46	.	
PORTUGAL.																		
Corunna ...	*	*	*	*	*	30.10	+ 05	57	55	0	SE	2	0	?	61	55	.	
Lisbon ...	30.08	58	SW	4	c	30.10	+ 05	57	55	0	SE	2	0	?	61	55	.	

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

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

WEATHER CHARTS

for 8 a.m. on Wednesday, 21st May,

1890.

BAROMETER, WIND AND SEA.

EXPLANATION OF MAP.

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

Changes since previous morning are stated in words.

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

their barbs and feathers refer to force thus—

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

→ = forces 5 to 7; → = forces 1 to 4.

⊕ = dead calm.

SEA DISTURBANCE—Where considerable, is shown thus:

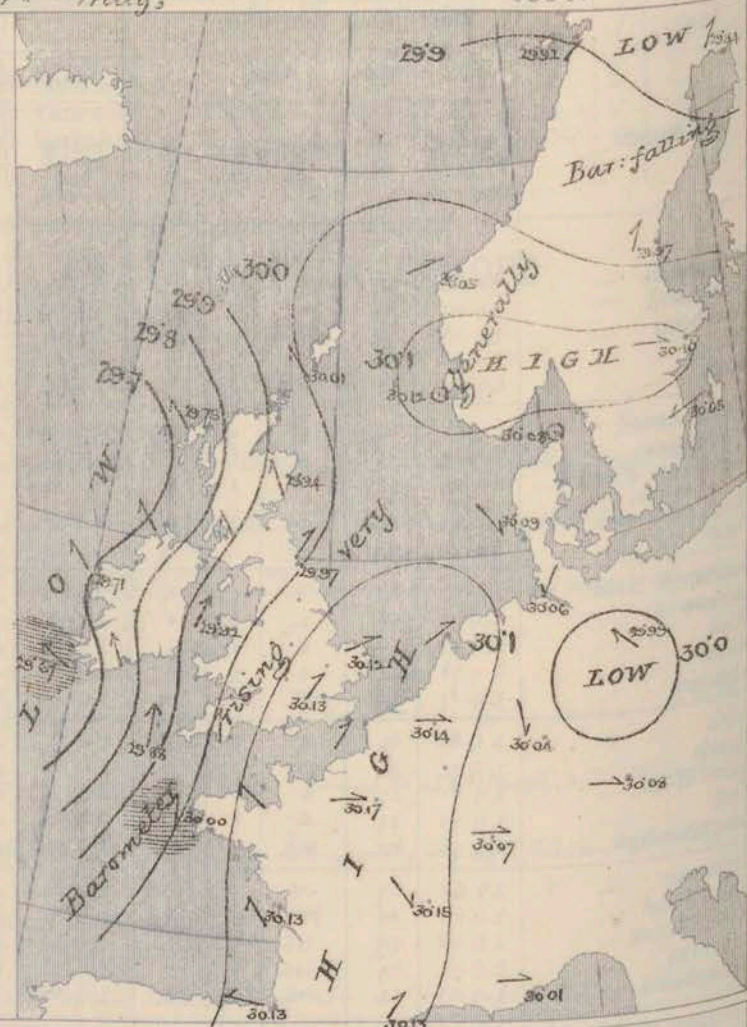
▨ = Rough. ▩ = High.

MEAN HEIGHT OF THE BAROMETER

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

During the 15 Years: 1871—1885.

STATIONS.	MEAN READINGS.
Sumburgh Head	29.878
Stornoway	29.893
Wick	29.906
Nairn	29.918
Aberdeen	29.922
Leith	29.942
Shields	29.955
York	29.974
Loughborough	29.984
Ardrossan	29.949
Donaghadee	29.959
Holyhead	29.971
Liverpool	29.974
Parsonstown	29.976
Valencia	29.984
Roche's Point	29.970
Pembroke	29.977
Silly	29.997
Jersey	30.002
Hurst Castle	29.994
Dover	29.985
LONDON	29.995
Oxford	29.993
Cambridge	29.989
Yarmouth	29.980



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.

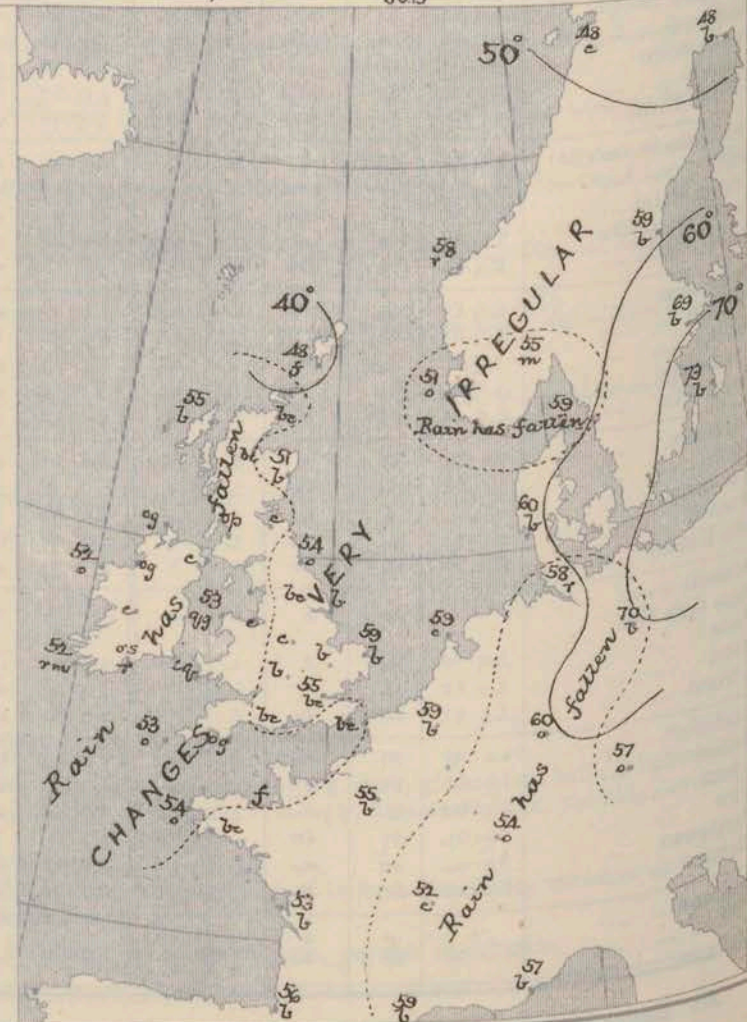
WEATHER is shown by Letters of the Beaufort Scale.

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 May.)

STATIONS.	TEMPERATURE.				RAINFALL. (Inches.)
	Daily Max.	Daily Min.	at 8 a.m.		
			Dry.	Wet.	
Sumburgh Head.....	50.2	39.9	45.9	43.9	1.71
Stornoway.....	52.9	40.7	48.4	46.0	2.64
Wick.....	53.7	40.4	47.9	45.2	1.62
Nairn.....	55.9	42.0	48.4	45.0	1.67
Aberdeen.....	55.0	41.7	48.9	45.3	1.90
Leith.....	57.8	42.2	50.1	46.7	1.65
Shields.....	54.2	43.1	49.1	45.9	1.75
York.....	59.3	41.6	49.6	46.4	1.71
Loughborough.....	61.5	42.2	51.2	47.6	1.96
Ardrossan.....	56.2	43.7	49.3	46.4	2.20
Donaghadee.....	55.9	43.0	49.5	47.3	2.15
Holyhead.....	56.0	46.1	50.3	47.8	1.88
Liverpool.....	57.5	44.7	50.6	46.8	1.74
Parsonstown.....	59.3	42.3	51.0	47.7	2.23
Valencia.....	58.1	45.9	52.8	49.5	2.89
Roche's Point.....	59.6	46.6	51.7	48.7	3.05
Pembroke.....	55.1	46.0	49.9	47.4	1.97
Scilly.....	56.3	48.2	52.7	50.3	1.66
Jersey.....	59.3	47.1	53.5	50.4	1.74
Hurst Castle.....	58.3	45.3	51.3	49.7	1.70
Dover.....	56.8	46.8	52.8	49.2	1.77
LONDON.....	62.1	44.1	52.4	48.4	1.73
Oxford.....	60.5	43.9	50.6	47.4	1.83
Cambridge.....	61.7	41.8	51.3	48.1	1.76
Yarmouth.....	55.4	44.8	50.5	48.0	1.85

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



GENERAL SITUATION AT 8 A.M.

PRESSURE

Highest, 30.0 in. to 30.1 in. and more over France, the North Sea, and southern parts of Scandinavia.
Lowest, 29.7 in. and less, over the southwest of Ireland, and off the west of Scotland.
Gradient moderate in the west, slight elsewhere.
Barometer rising except in the southwest of Ireland, where it is inclined to fall again.

TEMPERATURE

Highest, 73° at Wex, 70° at Berlin, 69° at Stockholm, 60° at Wiesbaden, and 58° at Cambridge.
Lowest, 48° at Copananda and Sumburgh Head, 50° to 51° at the Irish stations and Pembroke, 53° at Sully.
 In London it fell to 47° early this morning, but had risen to 55° at 8 am; and was then rising quickly.

WIND

S¹ light to fresh throughout England and the Channel.
 SE¹ in Ireland, and blowing rather strongly at the southern stations.
 Over Germany and the East of France there was a cyclonic circulation of light winds, the fresh gale felt in some parts of the Channel yesterday had died down.
 Air generally over the Continent and Great Britain, but cloudy at the western stations.

WEATHER

In Ireland it is dull, with rain at Valence and Rocher Point.
 Rainfall measured this morning was 0.5 in. at Rocher Point, slight elsewhere.

SEA

Rough at Valence and Rocher, moderate on our southwestern and western coasts, slight or smooth elsewhere.

PROBABLE CHANGES IN SYSTEM NOW PREVALENT

Fine weather is probable over England, but further showers at our western stations, and in the west and north of Ireland.

FORECASTS

For the 24 hours ending at NOON on 22nd May 1890.

DISTRICTS.

FORECASTS.

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

SE² breezes, light to moderate; some showers.
 S² breezes, moderate to light; fair as a whole, but passing showers in places.
 SW² and S² breezes, moderate or light; passing local showers, bright intervals, cool at night.

DISTRICTS.

FORECASTS

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

Varying S² (SE to SW) breezes; cloudy, rain at times.

WARNINGS

NONE ISSUED.

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

YESTERDAY'S 2 P.M. REPORTS.

THER: WIND								THER: WIND							
BAR:		D.	W.	D.	F.	WEA.	SEA	BAR:		D.	W.	D.	F.	WEA.	SEA
Skudesnaes ...	29.95	66	57	E	2	0	2	Holyhead ...	29.55	59	53	ESS	4	c	3
Sumburgh Head	29.93	55	52	E	2	6	4	Valencia ...	29.56	57	54	W	3	sm	4
Stornoway ...	29.71	58	57	E	4	6	4	Scilly ...	29.62	53	51	SW	5	r	4
Aberdeen ...	29.82	51	50	ENE	2	0	3	Jersey ...	29.79	55	53	WSW	4	c	5
Shields ...	29.70	54	51	SE	4	6	3	Dungeness ...	29.85	56	53	S	5	bc	*
Ardrossan ...	29.61	63	59	NE	3	c	2	London ...	29.79	58	54	S	5	cp	4
Malin Head ...	29.58	54	52	SE	4	0	2	Yarmouth ...	29.83	58	53	S	6	bcg	?
Mullaghmore ...	29.52	55	54	E	5	om	3	Rocheport ...	29.95	61	55	WSW	5	c	
Belmullet ...	29.51	56	55	ENE	2	om	*								

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

Continental Information will appear tomorrow.

EXPLANATION OF COLUMNS GIVEN ON PAGE 1.

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

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

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

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

DAILY WEATHER REPORT.

for *Thursday, 22nd May, 1890.*
Issued by the Meteorological Office, 63, Victoria Street, London. R. H. SCOTT, Secretary.

STATIONS.	YESTERDAY EVENING.					8 A.M. TO DAY.										PAST 24 HOURS.		
	BAROM.	TEMP.	WIND.		Weather.	BAROMETER.		SHADE TEMP.			WIND.		Weather.	Sea. (0 to 9.)	SHADE TEMP.		Amount of Rainfall.	
	Reading at 32° F. and Sea Level.	Dry.	Dirce.	Force. (0 to 12.)		Reading at 32° F. and Sea Level.	Difference from 8 a.m. yesterday.	Dry.	Wet.	Difference from 8 a.m. yesterday.	Dirce.	Force. (0 to 12.)			Max.	Min.		
SCANDINAVIA.																		
Haparanda ...	29.78	54	N	2	C	29.93	+ .09	52	49	+ 4	Z	4	C	*	63	44	.	
Hernösand ...	30.01	65	Z	0	C	30.10	+ .13	58	51	+ 1	Z	2	C	*	77	45	.	
Stockholm ...	30.06	64	Z	0	C	30.08	- .02	65	57	+ 4	Z	2	C	*	79	55	.	
Visby ...	30.06	57	WSW	4	C	30.04	- .04	57	54	- 16	Z	4	C	*	77	54	.	
Bodö ...	30.09	45	W	4	C	30.13	+ .21	44	41	- 4	W	4	C	2	42	41	0.04	
SCANDINAVIA.																		
Christiansund ...	30.12	55	SW	2	C	30.17	+ .12	53	52	- 5	WSW	4	C	3	59	52	0.28	
Skudeanaes ...	30.21	53	Z	0	C	30.28	+ .16	64	50	+ 3	ESE	1	C	2	57	45	.	
Christiania Fjord (Færder) ...	30.08	58	W	4	C	30.10	- .00	55	55	0	NW	4	C	1	61	52	.	
Skagen (The Scaw) ...	30.13	54	NW	2	C	30.13	+ .05	55	52	- 4	WNW	4	C	3	66	50	.	
Fanö ...	30.22	52	NW	4	C	30.28	+ .19	59	53	- 1	NW	4	C	*	68	50	.	
SCANDINAVIA.																		
Sumburgh Head ...	30.05	51	SE	1	C	30.19	+ .18	54	52	+ 6	Z	0	C	3	56	44	.	
Stornoway ...	29.95	56	S	3	C	30.17	+ .39	55	54	0	S	3	C	3	59	50	.	
Wick ...	30.01	57	S	1	C	30.21	+ .28	59	58	+ 6	S	1	C	1	59	43	.	
Nairn ...	29.99	59	Z	0	C	30.20	+ .37	60	56	+ 4	WSW	1	C	1	63	50	.	
Aberdeen ...	30.08	54	SSE	2	C	30.26	+ .82	57	53	+ 6	SSW	2	C	2	58	49	.	
SCANDINAVIA.																		
Leith ...	30.07	59	S	1	C	30.23	+ .37	55	53	+ 1	Z	0	fm	*	61	53	.	
Shields ...	30.09	62	S	3	C	30.27	+ .30	62	57	+ 8	S	2	C	3	62	50	.	
Spurn Head ...	30.17	55	SE	2	C	30.31	+ .24	57	54	+ 1	Z	0	C	0	63	50	.	
York ...	30.14	63	S	3	C	30.31	+ .28	58	54	+ 2	S	1	C	*	64	49	.	
Loughborough ...	30.17	65	SW	3	C	30.31	+ .24	63	56	+ 8	SE	2	C	*	69	47	.	
SCANDINAVIA.																		
Ardrossan ...	30.03	54	E	3	P	30.23	+ .41	54	53	+ 2	S	3	Op	2	55	50	0.17	
Malin Head ...	29.84	56	SSE	6	Op	30.11	+ .40	56	54	+ 4	SSE	3	Op	1	62	51	.	
Mullaghmore ...	29.83	58	SSE	5	C	30.08	+ .32	56	54	+ 6	SE	5	Op	3	59	48	0.02	
Belmullet ...	29.84	55	?	4	C	30.04	+ .23	57	55	+ 5	SSE	3	Op	*	57	48	0.10	
Donaghadee ...	29.99	53	WSW	5	O	30.13	+ .80	52	52	+ 1	SSW	3	O	1	58	51	0.02	
SCANDINAVIA.																		
Liverpool (Bidston) ...	30.12	55	SSE	3	O	30.29	+ .30	57	53	+ 3	SE	2	O	2	63	52	.	
Holyhead ...	30.05	54	S	5	Op	30.23	+ .31	57	62	+ 4	S	4	C	3	58	52	0.03	
Parsonstown ...	29.89	61	SSW	1	C	30.11	+ .32	56	54	+ 3	SE	1	O	*	63	52	0.02	
Valencia ...	29.87	55	SSE	6	cm	30.04	+ .37	54	52	+ 2	SE	5	fm	5	57	51	0.31	
Roche's Point ...	29.95	50	S	4	C	30.10	+ .82	53	51	+ 1	S	5	Op	4	56	49	0.25	
SCANDINAVIA.																		
Pembroke (St. Ann's Hd.) ...	30.07	51	S	5	r	30.22	+ .27	53	52	+ 1	SE	4	C	4	54	50	0.17	
Scilly ...	30.00	53	S	5	O	30.13	+ .25	54	51	+ 1	SE	4	O	4	54	50	0.26	
Prawle Point ...	30.17	53	SSE	3	C	30.26	+ .19	58	55	+ 7	E	2	C	2	58	50	.	
Jersey (St. Aubin's) ...	30.19	63	ESE	3	C	30.26	+ .13	64	57	+ 8	Z	0	C	0	65	49	.	
Hurst Castle ...	30.23	56	SSW	3	C	30.31	+ .17	60	56	+ 5	ENE	2	C	2	60	52	.	
SCANDINAVIA.																		
Dungeness ...	30.22	58	SW	1	C	30.29	+ .15	60	54	+ 5	E	1	C	0	62	50	.	
London ...	30.22	62	S	2	C	30.31	+ .18	59	52	+ 4	SE	1	m	*	66	43	.	
Oxford ...	30.24	56	SE	2	C	30.32	+ .21	58	52	+ 4	SSE	1	C	*	63	43	.	
Cambridge ...	30.22	60	S	1	C	30.32	+ .20	57	51	- 1	SW	1	C	*	68	41	.	
Yarmouth ...	30.20	59	S	3	C	30.32	+ .20	56	53	- 3	S	2	C	1	60	49	.	
SCANDINAVIA.																		
Cuxhaven ...	30.11	59	N	5	C	30.25	+ .19	59	57	+ 1	N	4	C	*	64	58	.	
Berlin ...	30.02	74	NE	2	C	30.15	+ .16	68	61	- 2	N	4	C	*	81	59	.	
Wiesbaden ...	*	*	*	*	*	30.19	+ .15	61	57	+ 1	N	2	C	*	64	55	.	
Munich ...	30.14	58	NW	2	O	30.17	+ .09	57	57	0	W	2	C	*	63	54	0.64	
The Helder ...	30.26	57	NW	1	C	30.32	+ .20	57	51	- 2	N	1	C	2	64	54	.	
SCANDINAVIA.																		
Brussels (9 a.m.) ...	*	*	*	*	*	30.30	+ .16	59	55	0	NE	2	O	*	68	55	.	
Cape Gris Nez ...	?	57	W	3	C	?	?	60	52		W	2	C	1	64	50	.	
Paris ...	30.22	65	WSW	1	C	30.26	+ .09	59	55	+ 4	NE	2	C	*	68	46	.	
Brest ...	30.11	57	S	4	O	30.19	+ .19	56	53	+ 2	SE	2	C	4	63	48	.	
Lorient ...	30.18	59	SSE	2	C	30.21	+ .11	55	52	0	ESE	3	C	4	63	52	.	
SCANDINAVIA.																		
Rochefort ...	30.15	65	Z	0	C	?	?	56	53	+ 3	E	3	C	?	75	46	.	
Belfort ...	30.15	59	W	1	C	30.12	+ .05	55	44	+ 1	W	1	C	*	69	51	.	
Lyons ...	30.16	56	NW	3	O	30.14	- .01	55	52	+ 3	N	2	C	*	60	52	.	
Nice ...	29.98	59	SSE	4	C	29.98	- .03	64	55	+ 7	NE	2	C	0	68	52	.	
Perpignan ...	30.17	68	N	3	C	30.08	- .05	67	56	+ 8	W	2	C	*	73	52	.	
Biarritz ...	30.10	71	E	4	C	30.09	- .04	57	53	+ 1	ESE	3	C	1	75	54	.	
SCANDINAVIA.																		
Corunna ...	*	*	*	*	*	30.04	- .06	58	57	+ 1	NE	1	C	5	66	55	.	
Lisbon ...	30.07	60	SW	4	C												.	

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

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

WEATHER CHARTS

for 8 a.m. on Thursday, 22nd May

1890.

BAROMETER, WIND AND SEA.

EXPLANATION OF MAP.

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

Changes since previous morning are stated in words.

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

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

→ = forces 5 to 7; → = forces 1 to 4.

⊙ = dead calm.

SEA DISTURBANCE—Where considerable, is shown thus:

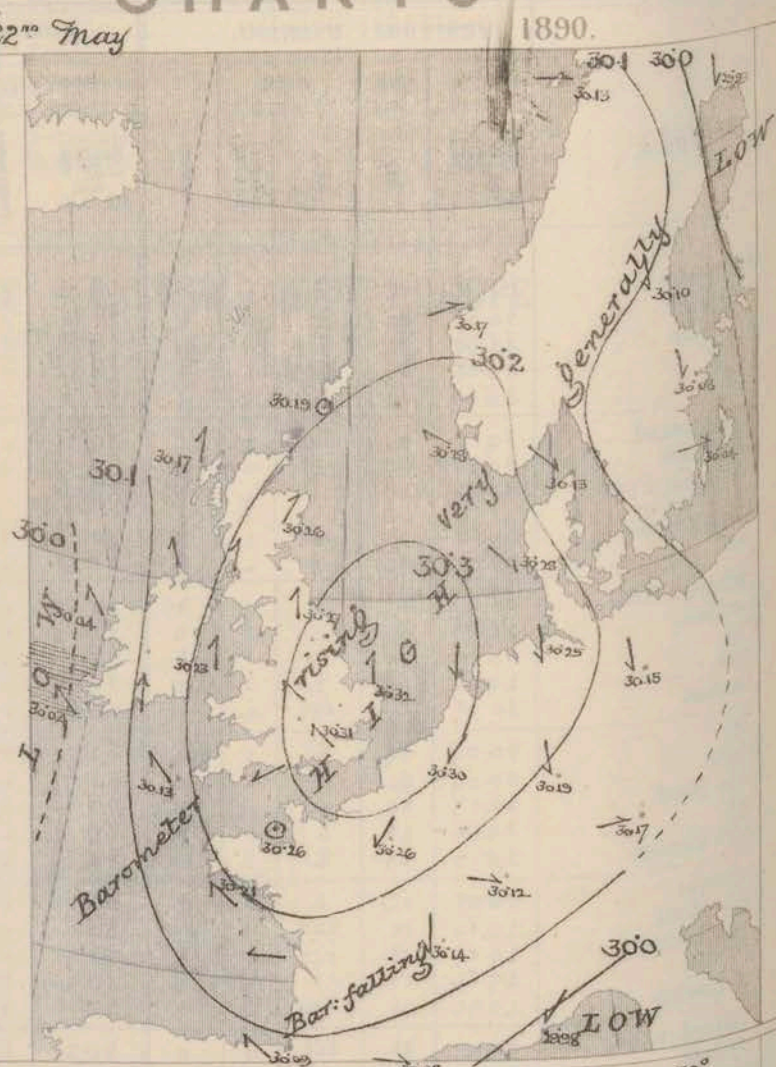
▨ = Rough. ▨ = High.

MEAN HEIGHT OF THE BAROMETER

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

During the 15 Years: 1871—1885.

STATIONS.	MEAN READINGS.
Sumburgh Head	29.878
Stornoway	29.893
Wick	29.906
Nairn	29.918
Aberdeen	29.922
Leith	29.942
Shields	29.955
York	29.974
Loughborough	29.984
Ardrossan	29.949
Donaghadee	29.959
Holyhead	29.971
Liverpool	29.974
Parsonstown	29.976
Valencia	29.984
Roche's Point	29.979
Pembroke	29.977
Sally	29.997
Jersey	30.002
Hurst Castle	29.994
Dover	29.985
LONDON	29.995
Oxford	29.993
Cambridge	29.989
Yarmouth	29.980



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.

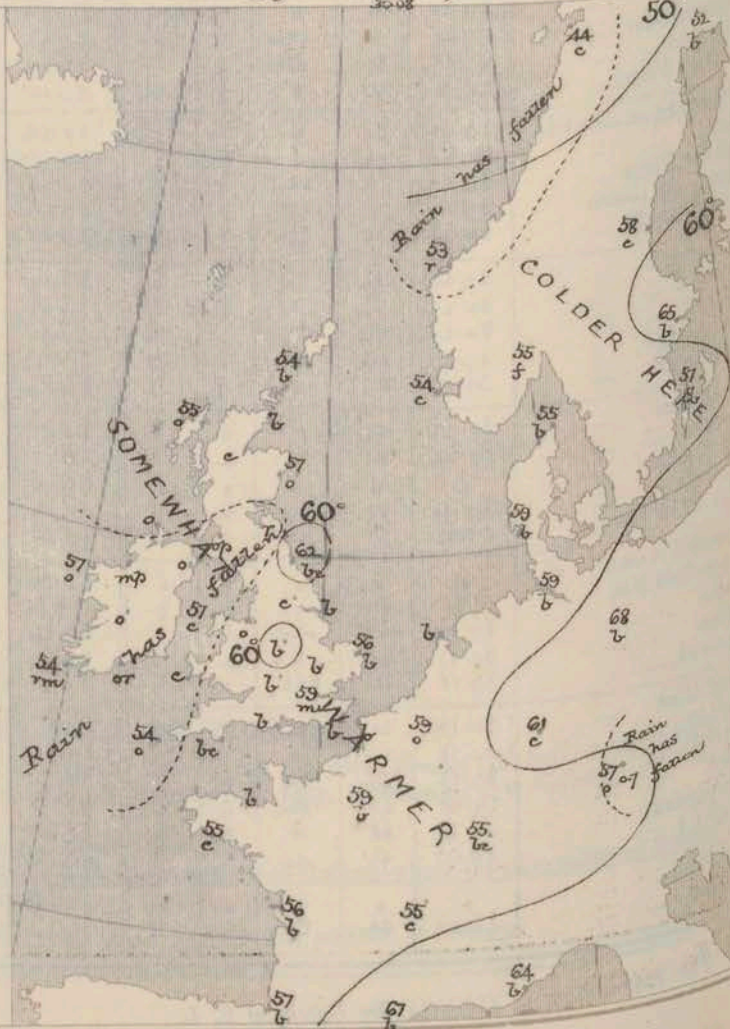
RAINFALL—A dotted line separates the districts in which rain has fallen from those where there has been none. Falls of 0.5 in. or more are quoted in figures.

MEANS OF TEMPERATURE IN SHADE, AND RAINFALL.

(For the month of May.)

STATIONS.	TEMPERATURE.				RAINFALL. (Inches.)
	Daily Max.	Daily Min.	at 8 a.m.		
			Dry.	Wet.	
Sumburgh Head.....	50.2	39.9	45.9	43.9	1.71
Stornoway	52.9	40.7	48.4	46.0	2.64
Wick	53.7	40.4	47.9	45.2	1.62
Nairn	55.9	42.0	48.4	45.0	1.67
Aberdeen	55.0	41.7	48.9	45.3	1.90
Leith	57.8	42.2	50.1	46.7	1.65
Shields	54.2	43.1	49.1	45.9	1.75
York	59.3	41.6	49.6	46.4	1.71
Loughborough	61.5	42.2	51.2	47.6	1.96
Ardrossan	56.2	43.7	49.3	46.4	2.20
Donaghadee	55.9	43.6	49.5	47.3	2.15
Holyhead	56.0	46.1	50.3	47.8	1.88
Liverpool	57.5	44.7	50.0	46.8	1.74
Parsonstown	59.3	42.3	51.0	47.7	2.23
Valencia	58.1	45.9	52.8	49.5	2.89
Roche's Point	59.6	46.0	51.7	48.7	3.05
Pembroke	55.4	46.0	49.9	47.4	1.97
Seilly	56.3	48.2	52.7	50.3	1.66
Jersey	59.3	47.1	53.3	50.4	1.74
Hurst Castle	58.3	45.3	51.3	49.7	1.70
Dover	56.8	46.8	52.8	49.2	1.77
LONDON	62.1	44.1	52.4	48.4	1.73
Oxford	60.5	43.9	50.0	47.4	1.83
Cambridge	61.7	41.8	51.3	48.1	1.76
Yarmouth	55.4	44.8	50.5	48.0	1.85

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



GENERAL SITUATION AT 8 A.M.

PRESSURE

Highest, 30.2 in. to 30.3 in. and more, in an anticyclone lying over Great Britain, the North Sea, and northern parts of France.
 Lowest, about 30.0 in. off the west coast of Ireland, over the Gulf of Genoa, and over the Baltic.
 Gradient moderate over Ireland and the Irish Channel, slight elsewhere.
 Barometer rising generally, most in the west.

TEMPERATURE

Highest, 68° at Berlin, 65° at Stockholm, 63° at Bournemouth, 62° at Shields, 61° at Wiesbaden, and 59° at Paris, and in London.
 Lowest, 44° at Bodo, 52° at Haparanda, 54° at Lumburgh Head and Androsan.
 It rose during yesterday to between 60° and 69° over England and to upwards of 70° at many of the French stations.

WIND

Very light and variable over England, but chiefly SE. or S.
 S., moderate on our northern and western coasts, NW. over Denmark, N. over Germany.
 Variable over Central France.

WEATHER

Dull and somewhat rainy in Ireland, cloudy on our western and northern coasts generally, fine elsewhere, hazy in London.
 Rain has fallen generally in the west and at Munich.

SEA

Rather rough at Valencia, moderate on our southern coasts generally, slight or smooth elsewhere.

PROBABLE CHANGES IN SYSTEM NOW PREVALENT

No important change is indicated.

FORECASTS

For the 24 hours ending at NOON on 23rd May

1890.

DISTRICTS.

FORECASTS.

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

S. breezes, moderate, slight rain at times.

Same as No 5

S. and Variable airs and calms;
 fine, dry, hazy at times.

DISTRICTS.

FORECASTS

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

S. and SE. breezes, light; fine as a whole.

SE. breezes, moderate, some rain,
 bright intervals.

WARNINGS

NONE ISSUED.

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

YESTERDAY'S 2 P.M. REPORTS.

	BAR.	THER.		WIND		WEA.	SEA		BAR.	THER.		WIND		WEA.	SEA
		D.	W.	D.	F.					D.	W.	D.	F.		
Skudesnes ...	30.15	58	52	74	3	c	2		Holyhead ...	30.02	55	51	S	5	098
Sumburgh Head ...	30.06	53	52	SE	1	bc	4		Valencia ...	29.80	56	53	SSW	6	bcn
Stornoway ...	29.48	59	58	S	3	b	3		Scilly ...	29.95	58	52	S	5	r
Aberdeen ...	30.03	57	52	SE	4	c	4		Jersey ...	30.18	63	59	ESE	3	b
Shields ...	30.08	60	52	S	3	c	3		Dungeness ...	30.21	58	55	SW	3	b
Ardrossan ...	29.99	54	52	S	3	c	2		London ...	30.19	65	57	SE	3	bcn
Malin Head ...	29.81	61	59	S	5	o	2		Yarmouth ...	30.18	57	54	S	4	b
Mullaghmore ...	29.78	56	53	SE	6	op	3		Rockefort ...	30.19	75	64	Z	0	b
Belmullet ...	29.73	55	51	SE	2	st	*								

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

Weather fine or fine over Great Britain and also over the greater part of the Continent, but dull in Ireland and the southwest of England, with rain at Valencia and Rochefort. Rain also at Copenhagen and Münster, and dull weather reported over the north of Italy and the western parts of the Iberian Peninsula. Unsettled rainy conditions extending later to most of our station stations, but weather remaining fine in the east of our Islands.

Temperature highest 65° and upward, over the Baltic and many parts of Central and southern Europe, the highest readings of all being 73° at Karls and Trieste, 72° at Bismarckstadt, 71° at Mirel, and 70° at Berlin, and Brindisi. Lowest, 44° at Archangel, 45° at Kapaevanda and Lumburg, 46° at Lemgo, 50° at Mullaghmore, and 51° at Aberdeen, Donaghadee, Bawlebury and Madrid. Daily maxima ranging between 65° and 70° over central England, but thermometers rising above 75° in Sweden and above 80° in some parts of Germany.

Wind moderate to fresh from the S.W. or S.E. over the greater part of our Islands, the Bay of Biscay, and the Spanish Peninsula, but S.W. in the east and southeast of England, as well as over Finland, and the north of Scandinavia. Light or moderate from the W. or N.W. over Western Germany and the east of France; light from the S.E. or E. over Eastern Germany and Austria; variable in Italy and Algeria. The S.E. wind in Ireland subsequently veering to the S.W., but no important change occurring elsewhere.

Barometer highest 30.3 in. and upward, in an anticyclone lying over Central Russia; 30.2 in. and upward, over Tunis and Central Algeria, and also over Central France. Lowest 29.7 in. and less, in two depressions lying respectively off the west of Scotland and the southwest of Ireland. Depressions subsequently moving northwards, and barometer rising, in all parts of Western Europe.

General Remarks on the Weather over Europe for 24 hours ended 8 a.m. May 21st.

Weather fine and bright over northern, western, and central Europe, as well as over the Iberian Peninsula; cloudy or overcast, and unsettled elsewhere, but with some tendency to improve over England, and to become less settled in Ireland. Rain during day over the western parts of our Islands (especially in southeast of Ireland) and also over the southern part of France. Sky clearing over England.

Temperature fallen decidedly over Western Europe. Morning readings exceeding 60° at most of the Mediterranean and Adriatic stations, as well as over Central Europe and over the Baltic — as high as 70° at Riga and Brindisi. Below 60° over the British Isles and Northern Europe, and as low as 34° at Archangel, 43° at Kain and Leith, 50° at Ennsky, and 51° at Malin Head and Aberdeen. Rising to upwards of 60° in most parts of Great Britain later, and to 70° in some parts of France. Night cool over England.

Wind light from the E. over the Baltic, Norway, Scotland, and the north of Ireland. Moderate to strong from the S.W. in the east and south of England (a gale at some Channel stations) and S.W. in the west and north of France. Very variable elsewhere, and of little force. S. and S.W. wind becoming more general over England later and continuing to blow strongly for some hours.

Barometer highest 30.0 in. to 30.3 in. and more over Northern Europe and Russia; 29.9 in. to 30.1 in. over Spain and the southern parts of France and Germany. Lowest about 29.4 in. in a depression lying over Devon and Cornwall, and rather below 29.3 in. in another shallow disturbance over the British Peninsula. English depression moving westwards later, and barometer rising on all our coast — most in the south and east.

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; i. 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, 23rd May, 1890.*
Issued by the Meteorological Office, 63, Victoria Street, London. R. H. SCOTT, Secretary.

STATIONS.	YESTERDAY EVENING.					8 A.M. TO DAY.										PAST 24 HOURS.		
	BAROM.	TEMP.	WIND.		Weather.	BAROMETER.		SHADE TEMP.			WIND.		Weather.	Sea. (0 to 9.)	SHADE TEMP.		Amount of Rainfall.	
	Reading at 32° F. and Sea Level.	Dry.	Dirct.	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.	Dirct.	Force. (0 to 12.)			Max.	Min.		
SCANDINAVIA.																		
Haparanda ...	30.03	49	NNE	2	c	30.22	+ .29	47	45	- 5	NNE	2	c	*	59	41	.	
Hernösand ...	30.04	56	NNE	2	b	30.18	+ .08	51	43	- 7	N	4	b	*	68	?	.	
Stockholm ...	30.04	54	NE	4	o	30.19	- .11	54	49	- 11	NNE	6	b	*	75	54	0.59	
Wisby ...	29.99	60	S	4	c	30.05	+ .01	54	48	- 3	NNE	6	b	*	68	54	.	
Bodo ...	30.23	43	WNW	4	c	30.29	+ .16	42	40	- 2	SW	2	c	2	48	39	0.08	
CHRISTIANIA.																		
Christiansund ...	30.29	49	NE	3	f	30.33	+ .16	51	46	- 2	ENE	3	c	2	?	48	0.04	
Skudesnaes ...	30.28	54	NW	2	b	30.32	+ .04	58	52	+ 4	E	1	b	2	64	46	.	
Christiania Fjord ...	30.10	65	WNW	5	b	30.30	+ .20	57	50	+ 2	NE	2	b	1	64	55	.	
(Færder)																		
Skagen (The Scaw) ...	30.13	57	N	1	b	30.31	+ .18	56	52	+ 1	NE	1	b	2	63	52	.	
Fanø ...	30.25	52	WNW	4	b	30.21	- .07	60	57	+ 1	NW	4	b	*	63	50	.	
SCOTLAND.																		
Sumburgh Head ...	30.36	58	WNW	1	c	30.33	+ .14	49	49	- 5	NE	1	m	1	61	44	.	
Stornoway ...	30.24	58	Z	0	c	30.28	+ .08	59	58	+ 4	S	2	o	2	62	45	.	
Wick ...	30.27	55	S	1	b	30.31	+ .10	60	55	+ 1	S	1	b	1	68	49	.	
Nairn ...	30.22	70	SW	1	bc	30.28	+ .08	57	55	- 3	Z	0	b	1	71	47	.	
Aberdeen ...	30.25	67	S	2	bc	30.30	+ .04	57	54	0	ESE	1	b	2	72	53	.	
ENGLAND.																		
Leith ...	30.24	61	Z	0	c	30.28	+ .08	60	56	+ 5	E	1	b	*	64	46	0.01	
Shields ...	30.26	60	E	1	bc	30.28	+ .01	57	54	- 5	SSE	2	bc	2	64	51	.	
Spurn Head ...	30.29	55	SSE	3	b	30.29	- .02	55	51	- 2	ENE	2	b	1	61	47	.	
York ...	30.27	67	ESE	1	b	30.31	- .00	58	50	0	ESE	1	b	*	72	48	.	
Loughborough ...	30.27	71	ESE	2	b	30.29	- .02	60	53	- 3	E	3	b	*	75	42	.	
IRELAND.																		
Ardsrossan ...	30.27	59	Z	0	c	30.24	+ .01	61	58	+ 7	NE	2	om	1	61	52	.	
Malin Head ...	30.17	62	SE	4	o	30.19	+ .08	55	51	- 1	SE	4	b	1	64	51	.	
Mullaghmore ...	30.16	65	SSE	5	c	30.17	+ .09	58	51	- 1	E	5	cm	3	67	51	.	
Belmullet ...	30.12	60	SSE	3	o	30.11	+ .07	57	53	0	ENE	2	o	*	61	54	0.06	
Donaghadee ...	30.26	55	SEW	2	bc	30.28	+ .12	56	51	+ 4	SE	3	b	1	58	50	.	
BRITAIN.																		
Liverpool (Bidston) ...	30.26	63	N	1	c	30.26	- .03	60	54	+ 3	ESE	2	b	3	69	50	.	
Holyhead ...	30.28	61	Z	0	bc	30.21	- .02	64	58	+ 7	ESE	1	b	1	68	51	.	
Parsonstown ...	30.10	63	Z	0	c	30.15	+ .04	61	55	+ 5	Z	0	bc	*	68	49	.	
Valencia ...	30.09	58	SE	5	o	30.03	- .01	60	55	+ 6	ESE	5	cm	5	60	52	0.20	
Roche's Point ...	30.17	55	SE	4	c	30.10	- .00	56	51	+ 3	ESE	5	b	4	57	52	.	
EUROPE.																		
Pembroke (St. Ann's Hd.) ...	30.22	59	SE	4	bc	30.16	- .06	58	53	+ 5	ESE	4	bc	3	63	50	.	
Scilly ...	30.16	55	ESE	4	bc	30.06	- .07	55	54	+ 1	ESE	5	bc	3	57	49	.	
Prawle Point ...	30.22	56	E	4	b	30.14	- .12	57	53	- 1	ENE	6	b	4	59	56	.	
Jersey (St. Aubin's) ...	30.19	66	ENE	3	b	30.11	- .15	60	57	- 4	ENE	4	b	3	71	54	.	
Hurst Castle ...	30.25	63	E	2	b	30.18	- .13	59	56	- 1	ENE	3	b	1	68	52	.	
AFRICA.																		
Dungeness ...	30.24	58	ENE	4	bc	30.17	- .12	56	53	- 4	ENE	6	bc	4	62	52	.	
London ...	30.27	63	SE	2	bc	30.22	- .09	60	53	+ 1	E	3	b	*	72	48	.	
Oxford ...	30.26	60	ENE	1	b	30.24	- .08	59	53	+ 1	ENE	2	b	*	70	43	.	
Cambridge ...	30.28	60	ESE	1	b	30.26	- .06	61	53	+ 4	NE	1	b	*	73	41	.	
Yarmouth ...	30.31	59	ESE	2	b	30.29	- .03	56	54	0	E	3	b	2	61	50	.	
ASIA.																		
Cuxhaven ...	30.27	58	N	4	b	30.23	- .02	58	56	- 1	N	3	b	*	62	58	.	
Berlin ...	30.16	68	N	3	b	30.17	+ .02	61	54	- 7	NW	4	b	*	77	55	.	
Wiesbaden ...	*	*	*	*	*	30.15	- .04	65	60	+ 4	NE	1	b	*	68	55	.	
Munich ...	30.13	62	NE	1	c	30.15	- .02	60	57	+ 3	NE	3	b	*	70	48	.	
The Helder ...	30.30	57	NE	2	b	30.28	- .04	59	54	+ 2	NE	2	b	3	61	52	.	
AMERICA.																		
Brussels (s.m.) ...	*	*	*	*	*	30.19	- .11	56	53	- 3	ENE	3	c	*	70	52	.	
Cape Gris Nez ...	?	55	NE	4	b	?	?	56	52	- 4	E	4	c	4	64	52	.	
Paris ...	30.15	67	N	3	bc	30.12	- .14	60	57	+ 1	ENE	2	c	*	71	53	.	
Brest ...	30.13	64	SE	1	b	30.07	- .12	61	59	+ 5	SE	2	b	2	70	52	.	
Lorient ...	30.11	66	Z	0	b	30.06	- .15	58	56	+ 3	ENE	2	b	4	72	54	.	
AFRICA.																		
Rochefort ...	30.05	72	E	4	bc	29.98	?	60	59	+ 4	NE	4	b	?	82	50	.	
Belfort ...	?	?	?	?	?	?	?	?	?	?	?	?	?	?	?	?	.	
Lyons ...	30.07	64	N	2	bc	30.04	- .10	63	60	+ 8	SE	1	c	*	68	55	.	
Nice ...	29.99	67	WSW	3	b	30.00	+ .02	66	57	+ 2	E	3	b	1	73	57	.	
Perpignan ...	30.01	73	S	1	b	30.03	- .05	65	60	- 2	Z	0	b	*	70	52	.	
Barritz ...	30.01	68	E	3	b	29.93	- .16	62	57	+ 5	E	2	b	3	81	52	.	
EUROPE.																		
Corunna ...	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	.	
Lisbon ...	29.96	60	WSW	4	b	29.87	- .17	59	57	+ 1	ENE	2	b	5	68	55	.	

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

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

WEATHER CHARTS

for 8 a.m. on

Friday, 23rd May,

1890.

BAROMETER, WIND AND SEA.

EXPLANATION OF MAP.

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

Changes since previous morning are stated in words.

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

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

→ = forces 5 to 7; → = forces 1 to 4.

⊙ = dead calm.

SEA DISTURBANCE—Where considerable, is shown thus:

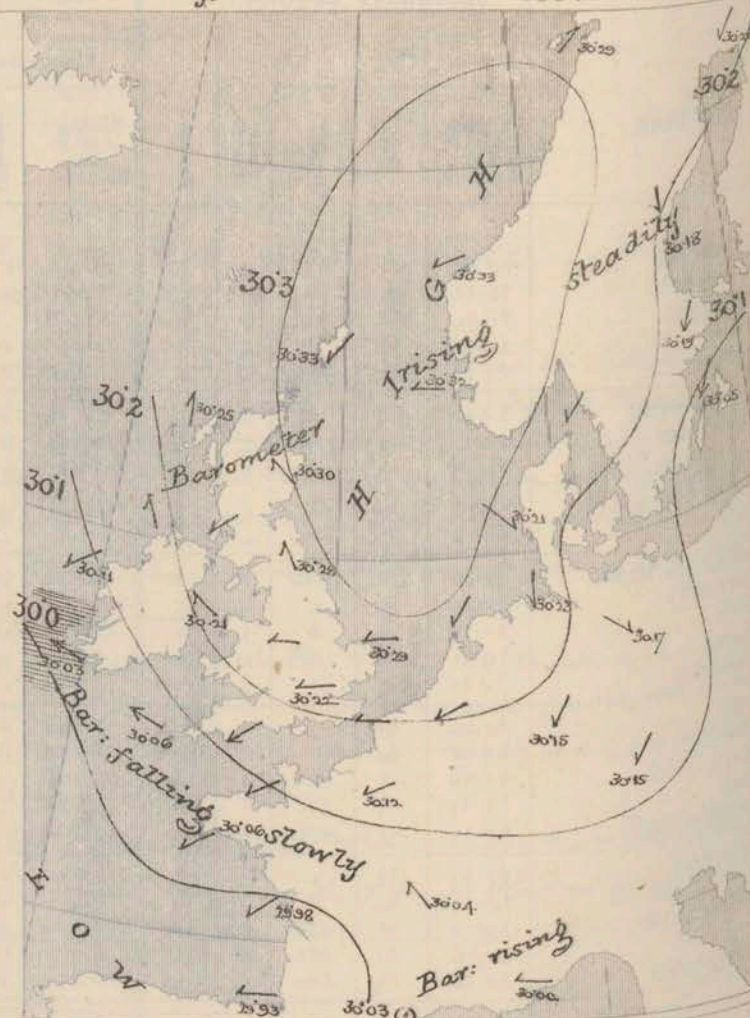
▨ = Rough. ▨ = High.

MEAN HEIGHT OF THE BAROMETER

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

During the 15 Years: 1871—1885.

STATIONS.	MEAN READINGS.
Sumburgh Head	29.878
Stornoway	29.893
Wick	29.906
Nairn	29.918
Aberdeen	29.922
Leith	29.942
Shields	29.955
York	29.974
Loughborough	29.984
Ardrossan	29.940
Donaghadee	29.959
Holyhead	29.971
Liverpool	29.974
Parsonstown	29.976
Valencia	29.984
Roche's Point	29.979
Pembroke	29.977
Scilly	29.997
Jersey	30.002
Hurst Castle	29.994
Dover	29.985
LONDON	29.995
Oxford	29.993
Cambridge	29.989
Yarmouth	29.980



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

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

WEATHER is shown by letters of the Beaufort Scale.

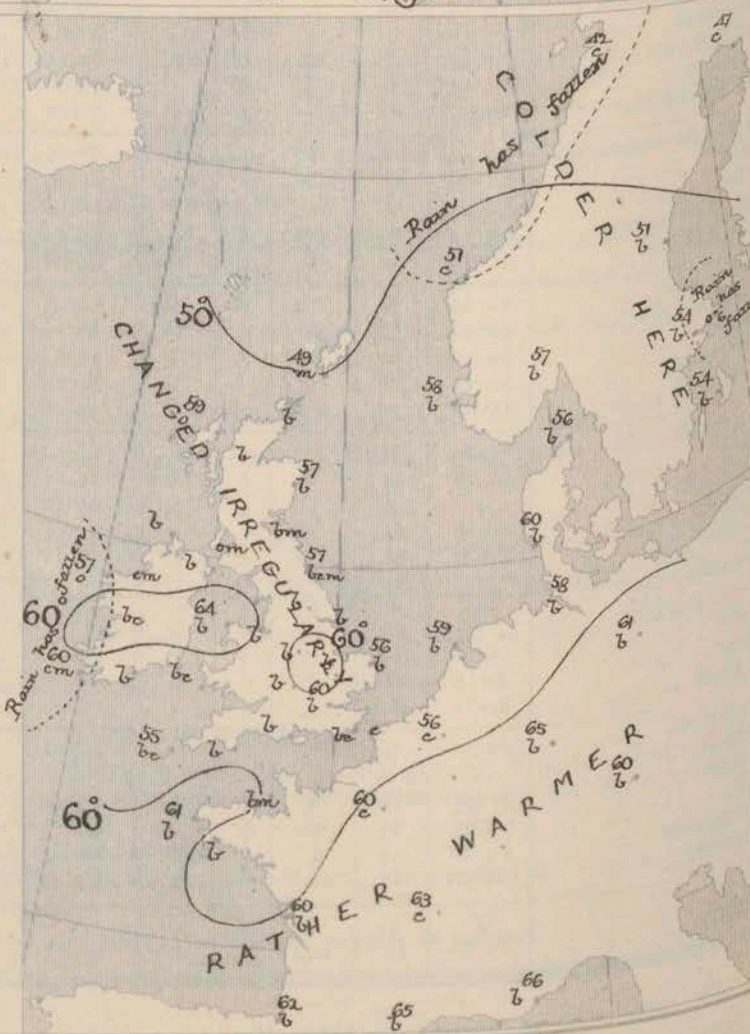
RAINFALL—A dotted line separates the districts in which rain has fallen from those where there has been none. Falls of 0.5 in. or more are quoted in figures.

MEANS OF TEMPERATURE IN SHADE, AND RAINFALL.

(For the month of May.)

STATIONS.	TEMPERATURE.				RAINFALL. (Inches.)
	Daily Max.	Daily Min.	At 8 a.m. Dry.	Wet.	
Sumburgh Head	50.2	39.9	45.9	43.9	1.71
Stornoway	52.0	40.7	48.4	46.0	2.64
Wick	53.7	40.4	47.9	45.2	1.62
Nairn	53.9	42.0	48.4	45.0	1.67
Aberdeen	55.0	41.7	48.0	45.3	1.90
Leith	57.8	42.2	50.1	46.7	1.65
Shields	54.2	43.1	49.1	45.9	1.74
York	59.3	41.6	49.6	46.4	1.71
Loughborough	61.5	42.2	51.2	47.6	1.06
Ardrossan	56.2	43.7	49.3	46.4	2.20
Donaghadee	55.9	43.6	49.6	47.3	2.15
Holyhead	56.0	46.1	50.3	47.8	1.88
Liverpool	57.5	44.7	50.6	46.8	1.74
Parsonstown	59.3	42.3	51.0	47.7	2.23
Valencia	58.1	45.9	52.2	49.5	2.89
Roche's Point	59.6	46.0	51.7	48.7	3.05
Pembroke	55.1	46.0	49.9	47.4	1.97
Scilly	56.3	48.2	52.7	50.3	1.66
Jersey	59.3	47.1	53.5	50.4	1.74
Hurst Castle	58.3	45.3	51.3	49.7	1.70
Dover	56.8	46.8	52.8	49.2	1.77
LONDON	62.1	44.1	52.4	48.4	1.73
Oxford	60.6	43.9	50.6	47.4	1.83
Cambridge	61.7	41.8	51.3	48.1	1.76
Yarmouth	55.4	44.8	50.5	48.0	1.85

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



GENERAL SITUATION AT 8 A.M.

PRESSURE

Highest, 30.3 in: and more, over Norway and the extreme east of Scotland.

Lowest, 29.9 in: and less, over the southwest of Spain, and 30.1 in: and less, both off the west of Ireland and over the Baltic.

Gradients are slight. Barometer falling slowly in the south and west, rising in the north and northeast.

TEMPERATURE

Highest, 66° at Nice, 65° at Wiesbaden and Perpignan, 63° at Lyons, 62° at Biarritz, and 60° in London and at Wick.

Lowest, 42° at Bodo, 47° at Haspenguade, 49° at Sunderland, and 55° in the north of Ireland.

The daily maxima recorded yesterday varied from 40° to 45° over England and some of the eastern parts of Scotland. The thermometer has fallen decidedly over Sweden and North Germany.

WIND

SE⁴, light, at our northern stations, — SE⁴, moderate to fresh in Ireland.

E⁴, moderate, over England, strong in the Channel.

NE⁴ to E⁴, light over France, — N⁴, strong over the Baltic.

WEATHER

Fine generally, and the air dry. Rain fell yesterday at Stockholm, and in the west of Norway, and in the extreme west of Ireland.

SEA

Rather rough at Valencia Island, moderate in the English Channel, slight or smooth elsewhere.

PROBABLE CHANGES IN SYSTEM NOW PREVALENT

There is no indication of any great change from the conditions now prevailing.

FORECASTS

For the 24 hours ending at NOON on 24th MAY 1890.

DISTRICTS.

FORECASTS.

DISTRICTS.

FORECASTS

0 SCOTLAND
NORTH

1 SCOTLAND
EAST

2 ENGLAND
N.E.

3 ENGLAND
EAST

4 MIDLAND
COUNTIES

5 ENGLAND
SOUTH

SE⁴ winds, light to moderate; fine, dry.

Same as No 5.

E⁴ winds, moderate; fine.

E⁴ winds, strong on coast, moderate or fresh inland; fine, dry.

6 SCOTLAND
WEST

7 ENGLAND
N.W.

8 ENGLAND
S.W.

9 IRELAND
NORTH

10 IRELAND
SOUTH

SE⁴ winds, moderate; fair.

Same as No 5.

Same as Nos 6 and 7.

E⁴ and SE⁴ winds, fresh; fair.

WARNINGS

NONE ISSUED.

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

YESTERDAY'S 2 P.M. REPORTS.

	BAR:	THER:		WIND		WEA.	SEA		BAR:	THER:		WIND		WEA.	SEA
		D.	W.	D.	F.					D.	W.	D.	F.		
Skudesnaes ...	30.22	64	56	W	2	6	2		Holyhead ...	30.26	68	57	SW	3	2
Sumburgh Head ...	30.22	57	53	W	1	6	2		Valencia I ...	30.19	56	54	SE	5	4
Stornoway ...	30.21	62	61	S	2	6	2		Scilly ...	30.16	56	54	ESE	4	2
Aberdeen ...	30.25	65	59	ESE	2	6	2		Jersey ...	30.32	69	62	ESE	2	2
Shields ...	30.28	60	57	E	2	6	3		Dungeness ...	30.29	60	55	ESE	3	2
Ardrossan ...	30.27	61	58	W	0	6	0		London ...	30.28	68	60	ESE	2	1
Malin Head ...	30.17	61	56	S	2	6	0		Yarmouth ...	30.34	61	55	ESE	1	1
Mullaghmore ...	30.14	62	56	ESE	5	6	2		Rocheport ...	30.18	80	65	ESE	1	1
Belmullet ...	30.10	60	57	S	3	6	*								

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

Weather fine over the east and south of our Islands and the greater part of the Continent, but dull at many of our western and northern stations, with steady rain in the south of Ireland and showers in several other localities. Dull also in the Netherlands, the Adriatic, and the north of Italy, with rain at Trieste. Decided improvement taking place later in the western and northern parts of the United Kingdom.

Temperature highest, 70° and upwards, over the south of Italy and the southern shores of the Baltic (Brindisi 72°, Neufahrwasser 71°, Malmö 70°) 60° and upwards in many parts of Central and Southern Europe, and also at some of the English stations. Lowest 43° at Archangel, 44° at Kola, 49° at St. Petersburg, 52° at Haparanda and Dniprograd, and 53° at Christiansund, Rocher Point, and Penmarch. Subsequently rising to between 70° and 75° in many parts of Great Britain and to 80° or more at some of the French stations.

Wind light from the E. over the Channel and Bay of Biscay; moderate or fresh from the SE. on the west coasts of our Islands; light from the S. in the eastern parts of Great Britain. Moderate from the W. in the west of Norway; N. or NW. over Sweden, Denmark, and the north of Russia; SW. on the southern shores of the Baltic. Light and variable over the greater part of Southern and Eastern Europe.

Barometer highest, 30.2 in. and upwards, in an anticyclone lying over Central Russia and also in another lying over Holland and the east and southeast of England, the two systems being united by a broad "col" stretching across Germany. Lowest 29.6 in. and less, in a depression lying in the neighbourhood of the White Sea, 29.9 in. and less, in a shallow disturbance lying over Bormia and Sardinia; 30.0 in. and less, in another system lying to the westward of our Islands. Large shallow depression appearing later off the northwest of Spain, and barometer falling over France, Spain, and the southeast of England.

EXPLANATION OF COLUMNS GIVEN ON PAGE 1.

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

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

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

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

DAILY WEATHER REPORT.

for *Saturday, 24th May, 1890.*
Issued by the Meteorological Office, 63, Victoria Street, London. R. H. SCOTT, Secretary.

STATIONS.	YESTERDAY EVENING.					8 A.M. TO DAY.										PAST 24 HOURS.		
	BAROM. Reading at 32° F. and Sea Level.	TEMP. Dry.	WIND.		Weather.	BAROMETER.		SHADE TEMP.			WIND.		Weather.	Sea. (0 to 12.)	SHADE TEMP.		Amount of Rainfall.	
			Dirce.	Force. (0 to 12.)		Reading at 32° F. and Sea Level.	Difference from 8 a.m. yesterday.	Dry.	Wet.	Difference from 8 a.m. yesterday.	Dirce.	Force. (0 to 12.)			Max.	Min.		
SCANDINAVIA.																		
Haparanda ...	30.21	43	SW	2	0	30.08	- .14	49	47	+ 2	NE	2	bc	*	52	36	-	
Hernösand ...	30.27	50	W	0	c	30.19	+ .01	55	47	+ 8	W	2	bc	*	64	45	-	
Stockholm ...	30.30	54	N	2	b	30.28	+ .02	58	50	+ 8	W	2	b	*	63	45	-	
Wisby ...	30.21	49	NNW	4	b	30.25	+ .20	50	46	- 4	NW	2	b	*	64	46	-	
Bodö ...	30.26	44	WNW	2	0	30.04	- .25	44	42	+ 2	SE	2	r	1	48	41	0.24	
CHRISTIANIA.																		
Christiansund	30.34	50	NNE	2	c	30.24	- .09	52	49	+ 3	SW	2	0	2	52	45	-	
Skudesnaes ...	30.30	54	NNW	5	b	30.29	- .03	57	54	- 3	W	0	b	2	63	48	-	
Christiania Fjord	30.26	60	W	2	b	30.28	- .02	60	55	+ 5	SW	2	b	4	64	52	-	
(Færdor)																		
Skagen (The Scaw)	30.26	55	N	1	b	30.26	- .05	59	56	+ 3	W	0	b	0	68	52	-	
Fanø ...	30.25	58	E	4	b	30.28	+ .07	63	56	+ 7	E	2	b	*	73	52	-	
SCOTLAND.																		
Sumburgh Head	30.33	49	NE	1	f	30.32	- .01	47	47	- 2	W	0	b	0	51	44	-	
Stornoway ...	30.18	56	E	2	b	30.21	- .04	60	59	+ 1	W	0	b	2	67	50	-	
Wick ...	30.27	55	S	2	b	30.29	- .02	55	53	- 2	S	1	b	0	64	50	-	
Nairn ...	30.19	60	W	0	bc	30.25	- .03	58	56	+ 2	W	0	b	0	63	42	-	
Aberdeen ...	30.29	58	SSE	3	b	30.32	+ .03	51	51	- 6	ESE	1	m	1	65	45	-	
ENGLAND.																		
Leith ...	30.22	57	E	1	b	30.27	- .01	50	50	- 10	E	2	m	*	64	47	-	
Shields ...	30.25	57	E	3	b	30.25	- .03	57	54	+ 3	NE	1	b	2	61	46	-	
Spurn Head ...	30.23	56	NE	3	b	30.22	- .07	55	52	+ 3	NE	3	bc	3	58	50	-	
York ...	30.25	64	E	2	b	30.21	- .10	60	56	+ 4	E	1	b	*	72	44	-	
Loughborough	30.18	68	E	3	b	30.15	- .14	57	54	- 3	E	3	bc	*	73	46	-	
IRELAND.																		
Ardrossan ...	30.16	65	W	0	b	30.20	- .04	60	56	- 4	NE	3	bc	2	70	49	-	
Malin Head ...	30.08	66	SSE	5	om	30.14	- .06	55	53	+ 2	SE	4	bc	2	69	52	-	
Mullaghmore ...	30.07	66	SE	5	c	30.10	- .07	56	52	+ 4	E	5	b	3	69	53	-	
Belmullet ...	30.05	60	SSE	2	0	30.03	- .08	62	55	+ 7	ESE	3	b	*	70	54	-	
Donaghadee ...	30.17	62	SE	2	b	30.19	- .06	57	54	+ 3	NE	3	m	1	64	53	-	
Wales.																		
Liverpool (Bidston)	30.15	63	ESE	3	b	30.13	- .13	63	56	+ 7	E	3	b	3	72	51	-	
Holyhead ...	30.11	66	E	2	b	30.09	- .12	60	54	+ 6	E	4	b	3	69	52	-	
Parsonstown ...	30.07	67	W	0	c	30.05	- .10	63	56	+ 7	SE	2	b	*	71	51	-	
Valencia ...	29.99	63	ESE	5	cm	29.92	- .11	63	58	+ 5	E	4	bc	4	66	58	-	
Roche's Point...	30.05	60	ESE	5	bc	29.99	- .11	60	55	+ 5	ESE	5	bc	4	61	55	-	
France.																		
Pembroke (St. Ann's Hd.)	30.06	62	ESE	4	b	29.99	- .17	61	56	+ 5	ESE	3	b	2	66	56	-	
Scilly ...	30.00	57	ESE	4	bc	29.87	- .13	57	56	+ 1	E	5	c	3	58	53	-	
Prawle Point ...	30.02	58	E	6	b	29.94	- .08	61	56	+ 5	E	6	bc	4	63	55	-	
Jersey (St. Aubin's)	29.99	65	E	4	b	29.90	- .09	65	61	+ 4	E	4	bc	3	69	56	-	
Hurst Castle ...	30.07	64	E	3	b	29.98	- .09	62	59	+ 3	E	3	b	1	67	55	-	
Germany.																		
Dungeness ...	30.06	60	E	6	b	29.98	- .19	60	55	+ 5	E	5	b	4	62	55	-	
London ...	30.14	65	ESE	2	b	30.05	- .17	64	59	+ 5	E	3	b	*	71	51	-	
Oxford ...	30.14	61	E	2	b	30.08	- .16	57	54	+ 3	NE	3	b	*	71	46	-	
Cambridge ...	30.16	65	E	2	b	30.10	- .16	63	59	+ 4	NE	1	bc	*	73	44	-	
Yarmouth ...	30.19	58	E	4	b	30.13	- .16	57	55	+ 2	E	3	b	3	59	51	-	
Belgium.																		
Cuxhaven ...	30.20	61	NE	3	b	30.25	+ .02	58	55	+ 3	E	4	b	*	68	58	-	
Berlin ...	30.17	63	N	4	b	30.21	+ .04	55	52	+ 3	E	4	bc	*	75	48	-	
Wiesbaden ...	*	*	*	*	*	30.08	- .07	66	58	+ 8	NE	3	b	*	77	57	-	
Munich ...	30.08	59	NE	3	bc	30.10	- .05	59	55	+ 4	NE	4	b	*	73	46	-	
The Helder ...	30.17	58	NE	2	b	30.15	- .13	60	57	+ 3	E	2	b	3	64	57	-	
Netherlands.																		
Brussels (S.M.)	*	*	*	*	*	?	?	60	56	+ 4	NE	3	b	*	61	54	-	
Cape Gris Nez	*	58	E	5	bc	?	?	60	56	+ 4	NE	3	b	*	61	54	-	
Paris ...	29.98	75	W	2	bc	29.94	- .13	68	62	+ 6	E	1	b	*	77	59	-	
Brest ...	29.92	70	W	0	bc	29.81	- .11	65	62	+ 3	E	3	b	2	75	54	-	
Lorient ...	29.93	72	W	0	b	29.83	- .10	61	59	+ 2	E	3	b	2	77	57	-	
Spain.																		
Rochefort ...	29.87	73	W	2	b	29.83	- .15	66	62	+ 4	SW	3	b	?	84	54	-	
Belfort ...	29.03	62	E	1	bc	29.04	- .07	61	58	+ 3	E	1	b	*	75	57	-	
Lyons ...	29.93	71	E	1	bc	29.97	- .04	64	59	+ 5	E	1	b	*	77	55	-	
Nice ...	29.94	72	SW	2	b	29.95	- .05	66	57	+ 9	E	3	b	1	77	61	-	
Perpignan ...	29.91	70	W	0	b	29.91	- .12	67	60	+ 7	N	1	b	*	78	52	-	
Biarritz ...	29.83	70	NE	3	b	29.82	- .11	72	62	+ 10	W	0	0	0	79	?	-	
Italy.																		
Corunna ...	*	*	*	*	*	29.76	- .12	63	61	- 2	W	1	0	2	72	46	0.08	
Lisbon ...	29.80	61	SW	4	0	29.81	- .06	52	56	+ 4	W	3	0	3	66	55	0.32	

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

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

WEATHER CHARTS

for 8 a.m. on

Saturday 24th May,

1890.

BAROMETER, WIND AND SEA.

EXPLANATION OF MAP

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

Changes since previous morning are stated in words.

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

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

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

⊙ = dead calm.

SEA DISTURBANCE—Where considerable, is shown thus:

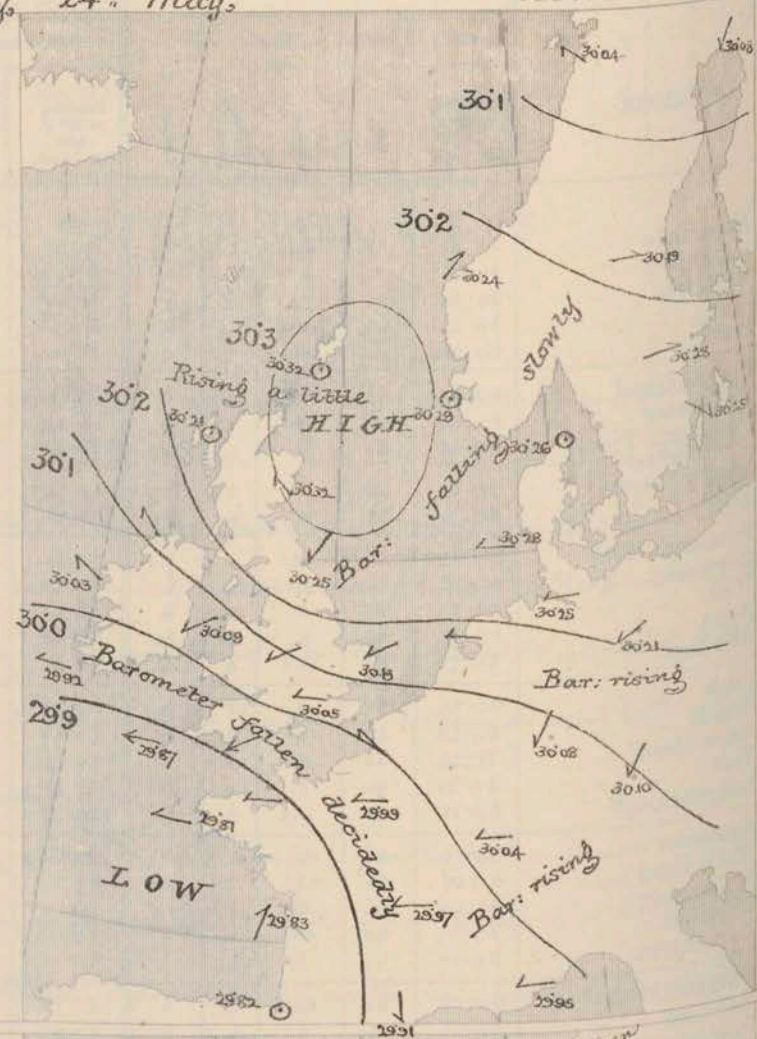
▨ = Rough. ▨ = High.

MEAN HEIGHT OF THE BAROMETER

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

During the 15 Years 1871-1885.

STATIONS.	MEAN READINGS.
Sumburgh Head	29.878
Stornoway	29.893
Wick	29.906
Nairn	29.918
Aberdeen	29.923
Leith	29.942
Shields	29.965
York	29.974
Loughborough	29.984
Ardrossan	29.949
Donaghadee	29.959
Holyhead	29.971
Liverpool	29.974
Parsonstown	29.976
Valencia	29.984
Roche's Point	29.979
Pembroke	29.977
Silly	29.997
Jersey	30.002
Hurst Castle	29.994
Dover	29.985
LONDON	29.995
Oxford	29.993
Cambridge	29.980
Yarmouth	29.980



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.

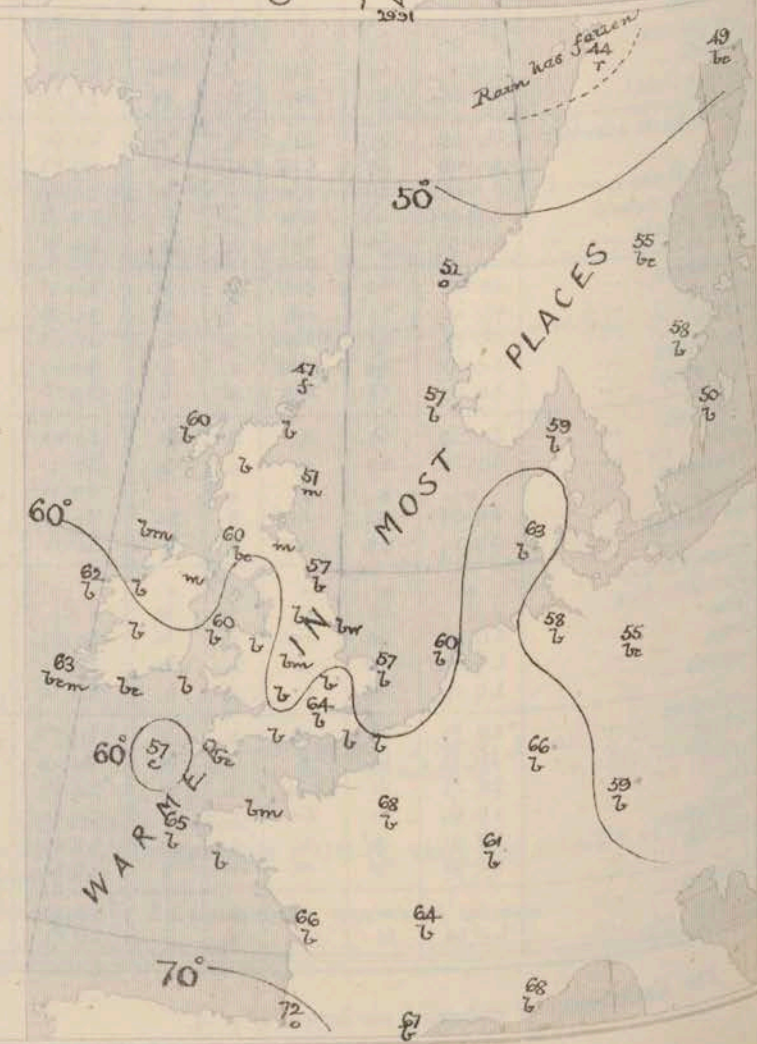
RAINFALL—A dotted line separates the districts in which rain has fallen from those where there has been none. Falls of 0.5 in. or more are quoted in figures.

MEANS OF TEMPERATURE IN SHADE, AND RAINFALL.

(For the month of May.)

STATIONS.	TEMPERATURE.				RAINFALL (Inches.)
	Daily Max.	Daily Min.	At 8 a.m.	At 5 p.m.	
Sumburgh Head	50.2	39.6	45.0	43.9	1.71
Stornoway	52.9	40.7	48.4	46.0	2.84
Wick	53.7	40.4	47.9	45.2	1.62
Nairn	55.0	42.0	48.4	45.0	1.67
Aberdeen	55.0	41.7	48.9	45.3	1.90
Leith	57.8	42.2	50.1	46.7	1.63
Shields	51.2	43.1	49.1	45.9	1.75
York	59.3	41.6	49.6	46.4	1.71
Loughborough	61.6	42.2	51.2	47.6	1.96
Ardrossan	56.2	43.7	49.3	46.4	2.20
Donaghadee	55.9	43.6	49.5	47.3	2.19
Holyhead	56.0	46.1	50.3	47.8	1.88
Liverpool	57.5	44.7	50.6	48.8	1.71
Parsonstown	59.3	42.3	51.0	47.7	2.23
Valencia	58.1	45.9	52.8	49.6	2.80
Roche's Point	59.6	46.6	51.7	48.7	3.65
Pembroke	59.1	46.0	49.9	47.4	1.97
Silly	56.3	48.2	52.7	50.3	1.66
Jersey	59.3	47.1	53.5	50.4	1.74
Hurst Castle	58.2	44.3	51.2	49.7	1.76
Dover	56.8	46.8	52.8	49.2	1.77
LONDON	62.1	44.1	52.4	48.4	1.72
Oxford	60.6	43.0	50.6	47.4	1.83
Cambridge	61.7	41.8	51.3	48.1	1.79
Yarmouth	55.4	44.8	50.3	48.0	1.85

NOTE—The Temperature means are for the 15 years 1871-85, the Rainfall means are mainly those for the 20 years 1869-88.



GENERAL SITUATION AT 8 A.M.

PRESSURE

Highest, 30.3 in: and upwards in an anticyclone lying between the Scotch and Norwegian coasts.
Lowest, 29.9 in: and less, over the Bay of Biscay, Spain, and the west of France; 30.1 in: and less, in the north of Scandinavia.

Gradients slight generally. Barometer rising slightly in the north of our Islands and also in Germany and the east of France, but falling elsewhere.

TEMPERATURE

Highest, 72° at Dunrobin, 68° at Paris and Nice, 67° at Perpignan, 66° at Westbury and Rochefort, and 65° at Jersey.

Lowest, 44° at Bodo, 47° at Lumburgh, 48° at Haparanda, 50° at Fife, 51° at Aberdeen, and 52° at Christiansund.

The highest maxima registered over our Islands yesterday were 73° at Loughborough and Cambridge, and 72° at York and Liverpool.

WIND

Moderate to strong from the E. in the west and south of our Islands, light or moderate from the N.E. in Germany and the east of England.
Calm in the north of Scotland and south of Norway, light from the N.W. in Sweden, variable in the south of France.

WEATHER

Fine generally, but misty or foggy at some of the Scotch stations, and dull in the west of Norway, with warmest beds.
Cirrus clouds were appearing in the southeast of England.

No rain fell yesterday in any part of Western Europe.

SEA

Moderate off the south of Ireland, but slight or smooth elsewhere.

PROBABLE CHANGES IN SYSTEM NOW PREVALENT

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

FORECASTS

For the 24 hours ending at NOON on 25th May

1890.

DISTRICTS.

FORECASTS.

DISTRICTS.

FORECASTS

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

Light breezes, chiefly S.E.; fair generally

N.E. to E. winds, light; fine generally.

E. winds, moderate or fresh; fine, warm.

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

Same as Nos 2 to 4.

E. to S.E. winds, fresh or strong; fine to cloudy and unsettled.

E. and S.E. winds, moderate or fresh; fair generally.

Same as No 8.

WARNINGS

NONE ISSUED.

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

YESTERDAY'S 2 P.M. REPORTS.

THER: WIND								THER: WIND							
BAR:	D.	W.	D.	F.	WEA.	SEA		BAR:	D.	W.	D.	F.	WEA.	SEA	
Skudesnaes ...	30.32	53	55	NW	4	b	2	Holyhead ...	30.16	68	60	E	1	b	5
Sumburgh Head ...	30.34	53	49	NE	1	m	1	Valencia ...	30.01	66	60	ESE	5	bcm	3
Stornoway ...	30.22	66	65	SE	1	b	2	Scilly ...	30.03	54	53	ESE	5	b	3
Aberdeen ...	30.30	63	56	SSE	3	b	1	Jersey ...	30.04	67	62	ESE	4	b	6
Shields ...	30.28	57	54	E	3	b	3	Dungeness ...	30.10	61	56	ESE	6	b	8
Ardrossan ...	30.20	70	62	N	1	b	0	London ...	30.17	68	69	E	3	b	2
Mulin Head ...	30.14	67	63	SE	3	b	1	Yarmouth ...	30.25	58	55	ESE	3	b	?
Mullaghmore ...	30.10	69	59	ESE	5	cm	2	Rochefort ...	29.92	76	68	NW	1	b	
Belmullet ...	30.07	67	59	SSE	2	o	*								

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

Weather fine and bright except in the western parts of Ireland and Scotland on the one hand, and over several parts of Russia on the other. Fog reported at Bourne, haze in a few other places, but no rain reported except at Rodo and Lisbon.

Temperature exceeding 60° at a large number of stations over the British Islands, western southern, central and eastern Europe—73° at Trieste, 69° at Yvernee and Brindisi, and 68° at Legna; much lower over Lapland and Finland—42° at Rodo, 46° at Kuopio, 47° at Haparanda, and 49° at Sumburgh Hd. Daily maxima 70° to 73° over England and Central Ireland, 77° at Wiesbaden and Paris, and 84° at Rochefort.

Wind anticyclonic—N¹ over the Baltic and North Germany, NE¹ to E¹ over France, the Channel and England, SE¹ in Ireland and Scotland, SW¹ at Rodo. Force strong in the Channel and at several Baltic stations, light or moderate elsewhere.

Barometer highest 30.1 ins. to 30.3 ins. and more, in a large anticyclone covering the whole of Northern Europe, lowest 29.9 ins. and less, over the Baltic Provinces and Western Russia, over Southern Europe, and over Portugal and adjacent part of Atlantic. Barometer falling somewhat over Spain, France and the British Islands later.

EXPLANATION OF COLUMNS GIVEN ON PAGE 1.

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

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

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

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

DAILY WEATHER REPORT.

for Sunday 25th May 1890.

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

STATIONS.	YESTERDAY EVENING.					8 A.M. TO DAY.										PAST 24 HOURS.		
	BAROM.	TEMP.	WIND.		Weather.	BAROMETER.		SHADE TEMP.			WIND.		Sea. (0 to 3.)	SHADE TEMP.		Amount of Rainfall.		
			Reading at 32° F. and Sea Level.	Difference from 8 a.m. yesterday.		Dry.	Wet.	Difference from 8 a.m. yesterday.	Direc.	Force. (0 to 12.)	Weather.	Max.		Min.				
	Reading at 32° F. and Sea Level.	Dry.	Direc.	Force. (0 to 12.)		Reading at 32° F. and Sea Level.	Difference from 8 a.m. yesterday.	Dry.	Wet.	Difference from 8 a.m. yesterday.	Direc.	Force. (0 to 12.)	Weather.		Max.	Min.		
Haparanda ...	29.83	46	L	0	0	30.02	-0.6	39	39	-10	NE	6	0	*	54	39	0.04	
Hernösand ...	29.88	53	NW	2	C	29.79	-0.40	51	45	-4	N	6	bc	*	64	43	-	
Stockholm ...	29.94	59	SW	2	0	29.73	-0.53	45	44	-13	NE	6	r	*	73	?	0.39	
Wisby ...	30.07	53	SW	4	C	29.73	-0.52	56	51	+6	SW	6	bc	*	63	41	-	
Bodo ...	29.84	44	SW	2	0	30.10	+0.6	49	43	+5	ENE	2	C	1	?	41	0.71	
Christiansund ...	30.15	48	NW	6	0	30.02	-0.22	45	42	-7	N	7	r	5	?	43	0.71	
Skadesnes ...	30.14	54	NW	6	C	29.92	-0.37	49	44	-8	NNW	7	bc	4	63	48	-	
Christiania Fjord (Færder) ...	29.99	58	SW	5	0	29.82	-0.46	45	44	-15	NE	7	r	4	61	45	0.24	
Skagen (The Scaw) ...	29.93	54	NW	2	bc	29.73	-0.53	54	53	-5	NNE	1	r	2	64	52	-	
Fanø ...	30.15	53	L	0	C	29.90	-0.38	60	53	-3	NW	4	C	*	68	50	-	
Sumburgh Head ...	30.26	49	L	0	L	30.21	-0.11	48	43	+1	NE	4	C	4	55	43	-	
Stornoway ...	30.17	64	E	3	C	30.16	-0.05	51	51	-7	NE	6	0	6	70	46	-	
Wick ...	30.21	53	S	2	C	30.23	-0.06	48	47	-7	E	5	0	3	60	43	-	
Nairn ...	30.14	62	E	1	C	30.18	-0.07	48	46	-10	E	2	C	1	66	46	-	
Aberdeen ...	30.24	49	ENE	1	C	30.17	-0.15	48	47	-3	N	3	og	3	58	43	-	
Leith ...	30.20	54	ENE	1	C	30.12	-0.15	47	46	-3	E	1	om	*	60	45	-	
Shields ...	30.18	58	NE	2	C	30.09	-0.16	46	46	-11	NW	2	bc	2	60	44	-	
Spurn Head ...	30.09	54	ENE	4	C	30.03	-0.19	58	52	+3	NE	3	bc	3	58	50	-	
York ...	30.14	64	E	3	C	30.05	-0.16	60	53	0	ENE	1	C	*	74	43	-	
Loughborough ...	30.04	70	ENE	4	C	30.00	-0.15	57	53	0	NE	3	cm	*	78	47	-	
Ardsrossan ...	30.11	68	NE	4	C	30.06	-0.14	57	53	-3	NE	3	cm	1	71	46	-	
Malin Head ...	30.05	61	ENE	4	C	30.03	-0.11	54	50	-1	ENE	4	bc	2	62	50	-	
Mullaghmore ...	29.99	66	E	5	C	29.98	-0.12	56	51	0	E	5	C	3	68	51	-	
Belmullet ...	29.97	71	ENE	3	0	29.91	-0.12	63	53	+1	E	4	C	*	73	58	-	
Donaghadee ...	30.07	62	E	2	bc	30.04	-0.15	58	54	+1	NW	3	C	1	66	56	-	
Liverpool (Bilston) ...	30.03	70	ENE	5	C	29.99	-0.14	62	54	-1	ENE	3	C	3	74	50	-	
Holyhead ...	29.99	66	E	4	C	29.93	-0.16	60	54	0	E	4	cm	4	71	52	-	
Parsonstown ...	29.93	72	L	0	bc	29.93	-0.12	59	53	-4	L	0	C	*	74	51	-	
Valencia ...	29.84	66	ENE	2	bc	29.79	-0.13	64	59	+1	E	3	om	4	71	62	-	
Roche's Point ...	29.89	62	E	5	C	29.84	-0.15	61	56	+1	E	5	C	4	67	57	0.15	
Pembroke (St. Ann's Hd.) ...	29.89	66	E	4	C	29.84	-0.15	60	59	-1	ENE	3	cg	2	72	59	-	
Scilly ...	29.78	57	E	5	C	29.79	-0.08	54	54	-3	S	3	bc	2	58	51	0.20	
Prawle Point ...	29.84	61	ENE	6	C	29.83	-0.11	63	59	+2	ENE	6	C	4	64	58	-	
Jersey (St. Aubin's) ...	29.83	73	ENG	3	cm	29.81	-0.09	68	62	+3	WNW	3	cm	3	75	60	0.03	
Hurst Castle ...	29.90	64	ENE	6	C	29.84	-0.14	63	61	+1	ENE	3	cm	2	73	56	-	
Dungeness ...	29.91	62	E	5	C	29.86	-0.12	61	58	+1	ENE	4	bc	3	64	55	-	
London ...	29.97	70	ENE	3	C	29.90	-0.15	65	59	+1	ENE	2	C	*	77	53	-	
Oxford ...	29.99	65	NE	3	C	29.93	-0.15	61	58	+4	NE	2	C	*	76	50	-	
Cambridge ...	30.02	69	E	2	C	29.94	-0.16	63	58	0	N	1	C	*	78	48	-	
Yarmouth ...	30.04	58	ENE	4	C	29.97	-0.16	56	54	-1	NE	4	C	3	59	51	-	
Cuxhaven ...	30.15	62	E	3	C	29.91	-0.34	61	58	+3	NE	1	C	*	68	?	-	
Berlin ...	30.10	66	ENE	3	C	29.95	-0.26	62	57	+7	E	1	C	*	72	54	-	
Wiesbaden ...	30.08	61	NE	2	C	29.91	-0.17	65	59	-1	NE	1	C	*	77	54	-	
Munich ...	30.06	63	ENE	3	C	29.97	-0.13	58	53	-1	NE	2	C	3	72	46	-	
The Helder ...	30.05	63	ENE	3	C	29.94	-0.21	61	57	+1	NE	2	C	3	66	59	-	
Brussels (9 a.m.) ...	?	60	E	3	C	29.87	-0.18	64	60	0	ENE	1	C	*	81	54	-	
Cape Gris Nez ...	?	60	E	3	C	29.87	-0.18	64	60	0	E	3	bc	2	66	50	-	
Paris ...	29.88	78	ENE	2	bc	29.85	-0.14	68	63	0	L	0	C	*	84	57	-	
Brest ...	29.80	73	S	1	C	29.82	+0.01	57	56	-8	W	1	0	2	79	54	0.04	
Lorient ...	29.78	73	SE	1	C	29.87	+0.04	59	58	-2	W	2	0	2	77	57	-	
Rochefort ...	29.85	75	W	3	C	29.95	+0.12	62	61	-4	W	3	r	?	93	54	-	
Belfort ...	29.93	65	SE	1	C	29.94	-0.10	62	54	+1	SE	1	C	*	75	51	-	
Lyons ...	29.87	73	ENE	1	C	29.91	-0.06	64	59	0	SE	1	C	*	81	54	-	
Nice ...	29.91	72	SW	3	C	29.89	-0.06	69	59	+1	NE	2	C	0	77	59	-	
Perpignan ...	29.84	72	SE	2	C	29.90	-0.01	64	56	-3	W	2	C	*	81	54	-	
Biarritz ...	29.90	64	WNW	3	0	29.94	+0.12	60	58	-12	W	4	0	1	86	59	0.08	
Corunna ...	?	59	W	3	C	29.97	+0.21	64	60	+1	SW	2	C	2	?	50	0.04	
Lisbon ...	30.01	59	W	3	C	30.06	+0.25	57	54	-1	L	0	bc	3	61	54	0.04	

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

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

WEATHER CHARTS

for 8 a.m. on

Sunday, 25th May,

1890.

BAROMETER, WIND AND SEA.

EXPLANATION OF MAP.

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

Changes since previous morning are stated in words.

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

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

↘ = forces 5 to 7; ↘ = forces 1 to 4.

☉ = dead calm.

SEA DISTURBANCE—Where considerable, is shown thus:

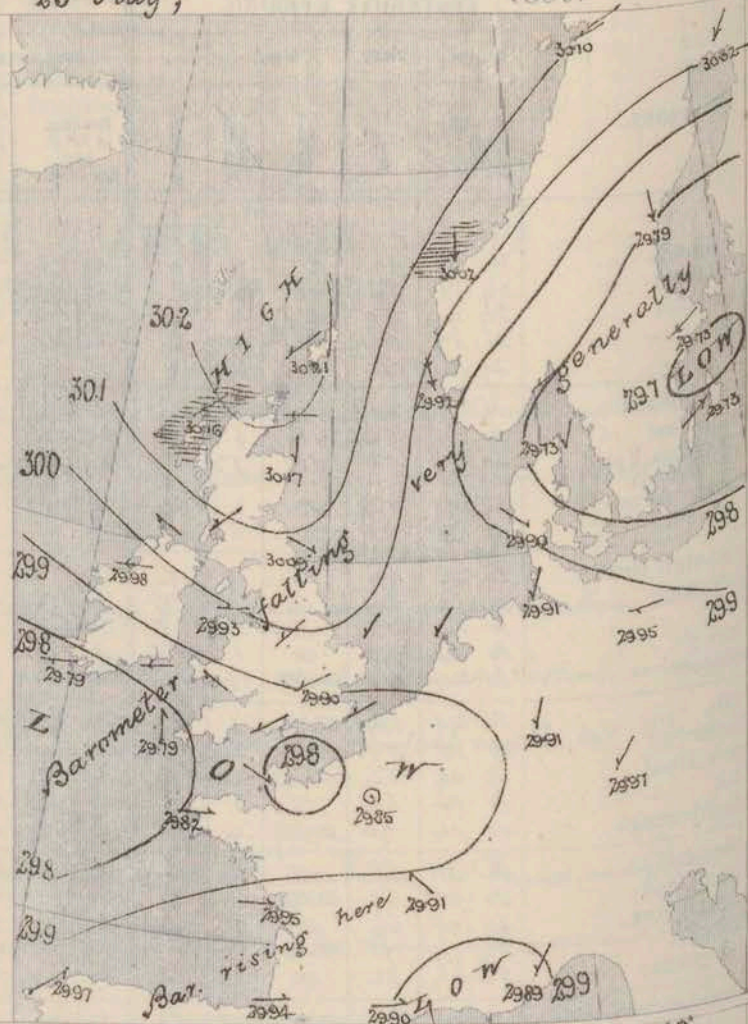
▨ = Rough. ▨ = High.

MEAN HEIGHT OF THE BAROMETER

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

During the 15 Years: 1871—1885.

STATIONS.	MEAN READINGS.
Sumburgh Head	29.878
Stornoway	29.893
Wick	29.906
Nairn	29.918
Aberdeen	29.922
Leith	29.942
Shields	29.955
York	29.974
Loughborough	29.984
Ardrossan	29.949
Donaghadee	29.959
Holyhead	29.971
Liverpool	29.974
Parsonstown	29.976
Valencia	29.984
Roche's Point	29.979
Pembroke	29.977
Seilly	29.997
Jersey	30.002
Hurst Castle	29.994
Dover	29.985
LONDON	29.995
Oxford	29.993
Cambridge	29.989
Yarmouth	29.980



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.

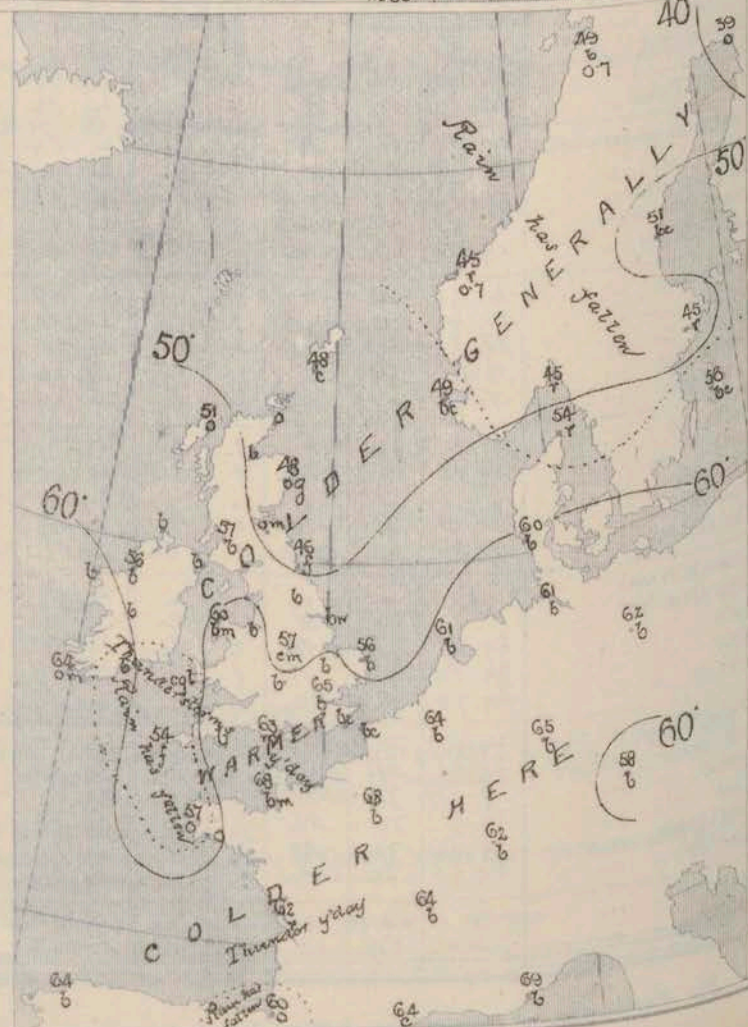
RAINFALL—A dotted line separates the districts in which rain has fallen from those where there has been none. Falls of 0.5 in. or more are quoted in figures.

MEANS OF TEMPERATURE IN SHADE, AND RAINFALL.

(For the month of May.)

STATIONS.	TEMPERATURE.				RAINFALL. (Inches.)
	Daily Max.	Daily Min.	At 8 a.m.		
			Dry.	Wet.	
Sumburgh Head	50.2	39.9	45.9	43.9	1.71
Stornoway	52.9	40.7	48.4	46.0	2.64
Wick	53.7	40.4	47.9	45.2	1.62
Nairn	55.9	42.0	48.4	45.0	1.67
Aberdeen	55.0	41.7	48.9	45.3	1.90
Leith	57.8	42.2	50.1	46.7	1.65
Shields	54.2	43.1	49.1	45.9	1.75
York	50.3	41.6	49.6	46.4	1.71
Loughborough	61.5	42.2	51.2	47.6	1.90
Ardrossan	56.2	43.7	49.3	46.1	2.20
Donaghadee	55.9	43.6	49.5	47.3	2.15
Holyhead	56.0	46.1	50.3	47.8	1.88
Liverpool	67.5	44.7	50.6	48.8	1.74
Parsonstown	59.3	42.3	51.0	47.7	2.23
Valencia	58.1	45.9	52.3	49.5	2.80
Roche's Point	59.6	46.0	51.7	48.7	3.05
Pembroke	55.1	46.0	49.9	47.4	1.97
Seilly	50.3	48.2	52.7	50.3	1.60
Jersey	59.3	47.1	53.5	50.4	1.74
Hurst Castle	58.3	45.3	51.3	49.7	1.70
Dover	50.8	46.8	52.8	49.2	1.77
LONDON	62.1	44.1	52.4	48.4	1.73
Oxford	60.5	43.9	50.6	47.1	1.83
Cambridge	61.7	41.8	51.3	48.1	1.76
Yarmouth	55.4	44.8	50.5	48.0	1.85

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



GENERAL SITUATION AT 8 A.M.

PRESSURE

Highest, 30.1 in: to 30.2 in: and more, over Scotland, and the northwest of Norway; 29.9 in: to 30.0 in: and more, over Spain and the southwest of France.
lowest, 29.8 in: and less, in a depression over the south of Sweden, and in other disturbances - one off our southwest coast, the other over France near Havre;
29.9 in: and less in front of the south of France.
Gradient moderate over Norway, slight elsewhere.
Barometer beginning to rise in Lapland and at Stomoway, falling elsewhere - most over the Baltic.

TEMPERATURE

Highest, 63° at Nice, 68° at Paris, 65° at Marseilles and in London, 64° at Lyons, Brussels and Valencia Island, and above 60° in many other places.
lowest 39° at Haparanda, 45° at Stockholm, Gothenburg, and Christianaund, 47° at Leth, 48° in the north and east of Scotland generally.
falling decidedly over Sweden, Norway, Denmark, and the northeast of our Islands, rising over the south and southeast of England.

WIND

N to NE, strong to gale over Scandinavia, NW over Denmark, N to moderate on our northeast coasts.
E to NE over the Channel, England, and Ireland, NE, very light in Holland, but W over the Bay of Biscay and calm in Paris.

WEATHER

Still fine over the greater part of the United Kingdom, France, and Germany; dull and foggy on our southwest and northeast coasts, very rainy over Scandinavia. Rainfall in past twenty-four hours considerable over Scandinavia, smaller on our southwest coasts and in parts of France, where thunderstorms had occurred.

SEA

Rough in the far north, moderate in the east and southwest, slight or smooth elsewhere.

PROBABLE CHANGES IN SYSTEM NOW PREVALENT

FORECASTS

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

DISTRICTS.

FORECASTS.

DISTRICTS.

FORECASTS

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

None Issued.

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

WARNINGS

None Issued.

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

YESTERDAY'S 2 P.M. REPORTS.

	BAR:	THER:		WIND		WEA.	SEA		BAR:	THER:		WIND		WEA.	SEA
		D.	W.	D.	F.					D.	W.	D.	F.		
Skudesnaes ...	30.24	62	54	NW	6	C	3		Holyhead ...	30.03	70	59	E	4	3
Sumburgh Head ...	30.30	49	49	Z	0	f	0		Valencia ...	29.90	67	61	E	4	4
Stornoway ...	30.20	70	66	E	3	f	3		Scilly ...	29.83	58	53	E	5	3
Aberdeen ...	30.30	53	52	ESE	2	f	1		Jersey ...	29.86	73	67	ENE	4	4
Shields ...	30.21	59	56	NE	2	f	2		Dungeness ...	29.96	64	59	E	6	3
Ardrossan ...	30.14	70	70	NE	4	bm	2		London ...	30.01	73	65	SE	3	3
Malin Head ...	30.11	61	55	ESE	4	f	1		Yarmouth ...	30.02	59	56	ENE	4	2
Mullaghmore ...	30.02	67	57	E	6	f	4		Rocheport ...	29.86	90	73	E	3	
Belmullet ...	30.00	72	58	ESE	3	f	*								

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

Weather in morning fine and bright over nearly the whole of Europe, but dull, unsettled, and in some places rainy, in the extreme north and southwest of Russia and over the western part of Algeria. Thunderstorms later in some parts of France and over the southern part of the British Islands; fine light and warm over the remainder of our Islands, cold rain at most of the Scandinavian stations.

Temperature variable between 65° and 75° at the Mediterranean stations and exceeding 60° over the greater part of Western and Southern Europe; lower elsewhere, and as low as 33° at Archangel, 41° at Petersburg, 44° at Rodez, 47° at Sumburgh Head, and 50° at Leth. Falling decidedly over Northern Europe and the northeast of Scotland later, but rising to between 40° and 46° over England and Ireland, and to between 80° and 86° at many French stations.

Wind mainly anticyclonic, E over North Germany, the north of France, the Channel and England, SE in Ireland, very variable and light in Scotland and over Scandinavia. Cyclonic circulation of light winds prevailing over Southern Europe and Algeria. Strong NW winds setting in over Sweden and Norway later, but little change observed in our Islands.

Barometer highest 30.1 in: to 30.3 in: and more in a large anticyclonic system lying over the northeastern part of the British Isles, the North Sea, Scandinavia, the Baltic and North Germany; lowest 29.3 in: and less, in shallow depression over Southwestern Russia, Asia, and Algeria, and 29.8 in: and less, in a larger one over the northwest of Spain and Bay of Biscay. Latter disturbances moving northward later, and new one advancing over Finland from the northwest.

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 26th May 1890.
Issued by the Meteorological Office, 63, Victoria Street, London. R. H. SCOTT, Secretary.

STATIONS.	YESTERDAY EVENING.						8 A.M. TO DAY.										PAST 24 HOURS.		
	BAROM.	TEMP.	WIND.		Weather.	Barometer.	SHADE TEMP.			WIND.		Weather.	Sea.	SHADE TEMP.					
	Reading at 32° F. and Sea Level.	Dry.	Dirce.	Force. (0 to 12.)			Dry.	Wet.	Difference from 8 a.m. yesterday.	Dirce.	Force. (0 to 12.)			Max.	Min.	Amount of Rainfall.			
SCANDINAVIA.																			
Haparanda ...																			
Hernösand ...																			
Stockholm ...	29.51	47	NE	6	P	29.23	-50	41	40	-4	NE	2	P	*	63	41	1.02		
Wisby ...	29.50	47	SEW	4	P	29.36	-37	53	49	-3	S	4	C	*	63	46	0.24		
Bodö ...	30.23	45	E	2	C	30.24	+14	40	40	-1	E	2	C	1	48	36	-		
CHRISTIANIA.																			
Christiansund ...	30.10	50	NE	7	C	30.13	+11	48	42	+3	ENE	3	C	3	52	45	0.04		
Skudesnaes ...	29.86	51	NW	7	C	29.91	-01	56	45	+7	NNE	3	C	3	52	45	-		
Christiania Fjord (Færd)	29.71	51	NNE	3	C	29.79	-03	44	38	-1	NNE	9	C	4	54	45	0.20		
Skagen (The Seaw)	29.66	45	NE	5	P	29.65	-08	42	40	-12	NE	9	P	8	57	41	0.47		
Faenø ...	29.73	47	NNW	4	C	29.74	-16	47	43	-13	NNW	5	C	*	61	45	-		
SCOTLAND.																			
Sumburgh Head	30.19	46	NE	4	C	30.15	-06	47	43	-1	NE	4	C	5	51	44	-		
Stornoway ...	30.18	50	E	6	C	30.21	+05	49	49	-2	E	5	O	5	52	45	-		
Wick ...	30.22	49	NE	4	C	30.18	-05	49	47	+1	NE	4	O	2	53	42	-		
Nairn ...	30.19	52	ENE	3	C	30.17	-01	49	47	+1	ENE	2	O	3	54	46	0.02		
Aberdeen ...	30.18	48	NE	5	C	30.12	-05	49	44	+1	N	4	C	4	52	46	0.01		
IRELAND.																			
Leith ...	30.14	49	E	4	C	30.11	-01	51	45	+4	NE	2	O	*	51	46	-		
Shields ...	30.07	49	NE	3	C	30.01	-08	50	48	+4	N	4	C	4	52	45	-		
Spurn Head ...	29.98	51	NNE	5	O	29.96	-07	51	48	-7	NNE	5	C	4	58	47	-		
York ...	30.03	54	ENE	2	O	30.01	-04	52	47	-8	NE	2	C	*	69	42	-		
Loughborough	29.96	59	NE	5	C	30.00	0.0	52	45	-5	NNE	4	C	*	74	41	-		
BRITISH ISLANDS.																			
Ardrossan ...	30.07	52	ENE	5	C	30.11	+05	52	46	-5	NE	3	C	2	66	43	-		
Malin Head ...	29.94	55	ESE	6	C	30.09	+06	48	43	-6	ESE	6	C	3	60	44	-		
Mullaghmore ...	29.90	64	ENE	4	C	30.03	+03	49	44	-7	E	6	C	4	69	46	-		
Belmullet ...	29.85	71	E	2	C	29.99	+08	64	59	+1	E	3	C	*	75	58	-		
Donaghadee ...	29.98	58	SNE	4	C	30.10	+06	50	46	-8	E	5	C	3	66	46	-		
EUROPE.																			
Liverpool (Bidston)	29.93	60	ENE	6	C	30.03	+04	53	46	-9	NE	2	C	3	73	44	-		
Holyhead ...	29.87	64	ENE	5	C	30.03	+10	51	46	-9	E	5	C	5	68	47	-		
Parsonstown ...	29.83	69	E	0	C	29.97	+04	51	47	-8	E	2	O	*	72	49	-		
Valencia ...	29.82	60	SEW	3	C	29.87	+08	55	54	-9	E	0	P	0	65	53	0.31		
Roche's Point...	29.84	57	ESE	3	C	29.90	+06	52	51	-9	ESE	6	P	5	65	51	0.45		
AFRICA.																			
Pembroke (St. Ann's Hd.)	29.84	63	E	0	C	29.94	+10	51	50	-9	ESE	3	C	2	67	49	0.04		
Scilly ...	29.84	55	SEW	3	C	29.85	+06	54	54	0	W	2	C	1	59	50	-		
Prawle Point ...	29.83	60	ENE	1	C	29.91	+08	50	49	-13	ENE	4	C	3	67	49	0.19		
Jersey (St. Aubin's)	29.84	56	NNW	3	C	29.89	+08	53	51	-15	NE	3	P	3	68	51	0.03		
Hurst Castle ...	29.85	63	SEW	4	C	29.93	+09	54	51	-9	ENE	4	C	3	70	51	0.04		
ASIA.																			
Dungeness ...	29.82	60	ENE	5	C	29.87	+01	53	48	-8	ENE	5	C	4	65	48	-		
London ...	29.87	68	E	3	C	29.94	+04	52	48	-13	E	2	C	*	76	48	-		
Oxford ...	29.93	53	NE	5	C	29.97	+04	51	47	-10	NE	4	C	*	74	42	-		
Cambridge ...	29.95	59	N	3	C	29.94	0.0	52	45	-11	N	3	C	*	74	40	-		
Yarmouth ...	29.92	53	NE	5	C	29.91	-06	52	47	-4	N	4	C	4	60	48	-		
AMERICA.																			
Cuxhaven ...	29.75	52	NNW	5	C	29.76	-25	54	51	-7	NNW	4	C	*	62	54	-		
Berlin ...	29.62	68	E	0	C	29.73	-18	55	51	-10	NNW	4	C	*	79	46	-		
Wiesbaden ...		*	*	*	*	29.73	-18	55	51	-10	N	2	O	*	79	54	0.04		
Munich ...	29.81	63	SE	1	C	29.73	-24	64	57	+6	SEW	5	C	*	73	58	-		
The Helder ...	29.88	52	NNE	3	C	29.84	-10	51	47	-10	N	2	C	3	61	48	-		
AFRICA.																			
Brussels (9 a.m.)		*	*	*	*	29.84	-03	52	47	-12	NNE	2	C	*	75	47	-		
Cape Gris Nez		*	*	*	*		*	51	46	-10	E	5	C	0	61	47	-		
Paris ...	29.78	63	NNW	3	O	29.80	-05	55	53	-13	N	2	O	*	84	51	-		
Brest ...	29.88	59	SEW	1	O	29.90	+08	56	54	-1	NN	1	O	2	63	52	-		
Lorient ...	29.90	58	W	3	O	29.89	+02	53	54	-4	NNW	3	P	3	64	53	-		
EUROPE.																			
Rochefort ...	29.96	60	NNW	4	O	29.90	-05	59	57	-3	NN	4	P	3	77	52	0.08		
Belfort ...	29.93	56	E	1	C		*	61	50	-1	E	1	C	*	77	51	0.20		
Lyons ...	29.78	71	SE	1	C	29.80	-11	63	57	-1	NNE	1	O	*	80	56	-		
Nice ...	29.82	67	SEW	2	C	29.76	-13	60	57	-9	N	2	O	1	77	57	-		
Perpignan ...	29.86	62	W	2	P	29.89	-01	62	56	-2	NN	4	C	*	76	57	0.16		
Biarritz ...	29.97	59	NNW	4	O	29.97	+08	53	54	-5	NNW	3	C	1	61	54	0.04		
AFRICA.																			
Corunna ...		*	*	*	*		*												
Lisbon ...	30.03	60	SEW	4	C	30.04	-02	60	58	+3	SEW	5	O	3	63	57	-		

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

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

WEATHER CHARTS

for 8 a.m. on

Monday, 26th May,

1890.

BAROMETER, WIND AND SEA.

EXPLANATION OF MAP.

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

Changes since previous morning are stated in words.

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

their barbs and feathers refer to force thus—

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

→ = forces 5 to 7; → = forces 1 to 4.

☉ = dead calm.

SEA DISTURBANCE—Where considerable, is shown thus:

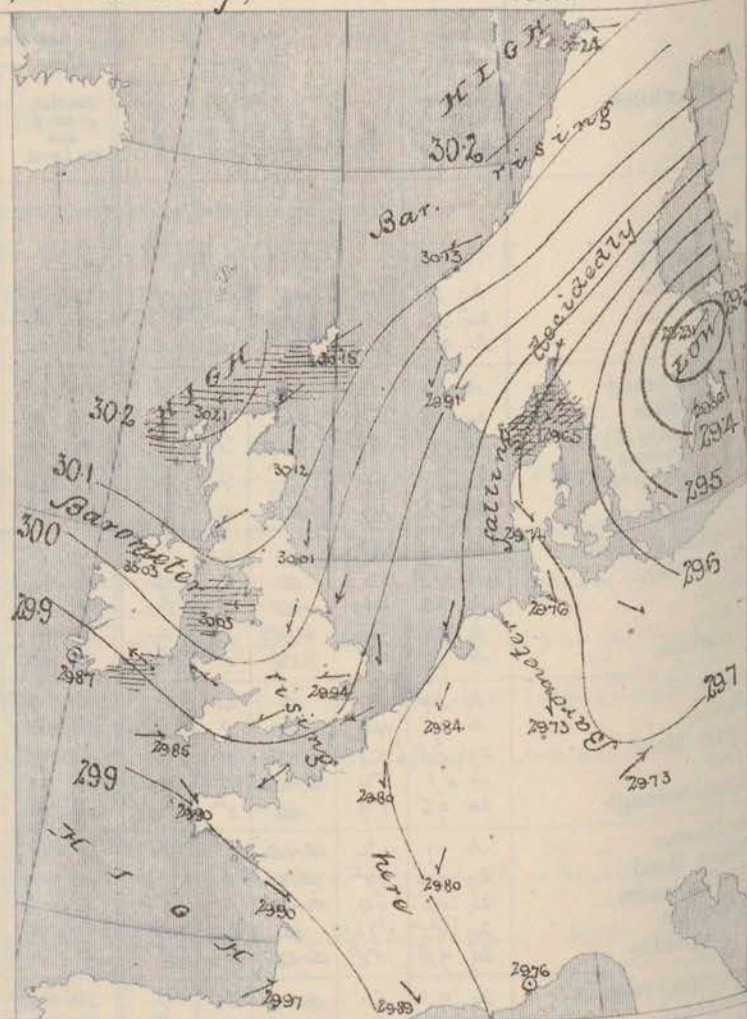
☼ = Rough. ☼ = High.

MEAN HEIGHT OF THE BAROMETER

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

During the 15 Years: 1871—1885.

STATIONS.	MEAN READINGS.
Sumburgh Head	29.878
Stornoway	29.893
Wick	29.906
Nairn	29.918
Aberdeen	29.922
Leith	29.942
Shields	29.955
York	29.974
Loughborough	29.984
Ardrossan	29.949
Donaghadee	29.959
Holyhead	29.971
Liverpool	29.974
Parsonstown	29.976
Valencia	29.984
Roche's Point	29.979
Pembroke	29.977
Silly	29.997
Jersey	30.002
Hurst Castle	29.994
Dover	29.985
LONDON	29.995
Oxford	29.993
Cambridge	29.989
Yarmouth	29.980



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.

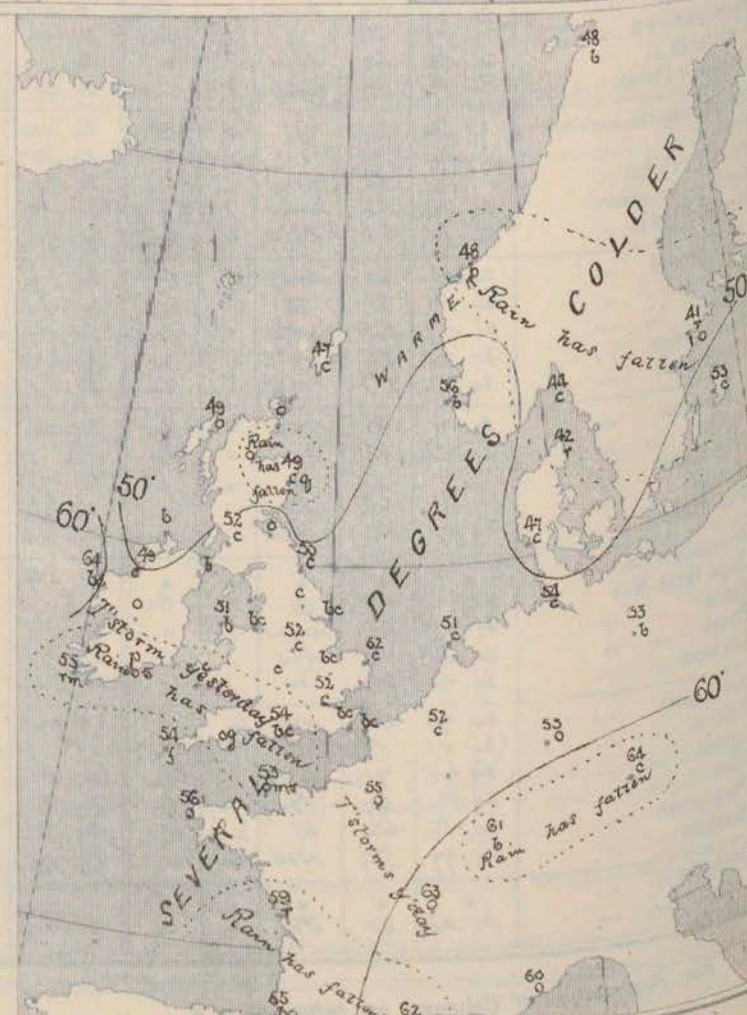
RAINFALL—A dotted line separates the districts in which rain has fallen from those where there has been none. Falls of 0.5 in. or more are quoted in figures.

MEANS OF TEMPERATURE IN SHADE, AND RAINFALL.

(For the month of May.)

STATIONS.	TEMPERATURE.				RAINFALL. (Inches.)
	Daily Max.	Daily Min.	Dry. at 8 a.m.	Wet.	
Sumburgh Head	50.2	39.9	45.9	43.9	1.71
Stornoway	52.0	40.7	48.4	46.0	2.64
Wick	53.7	40.4	47.9	45.2	1.62
Nairn	55.9	42.0	48.4	45.0	1.67
Aberdeen	55.0	41.7	48.9	45.3	1.90
Leith	57.8	42.2	50.1	46.7	1.65
Shields	54.2	43.1	49.1	45.9	1.75
York	59.3	41.6	49.6	46.4	1.71
Loughborough	61.5	42.2	51.2	47.6	1.96
Ardrossan	56.2	43.7	49.3	46.4	2.20
Donaghadee	55.0	43.0	49.5	47.3	2.15
Holyhead	56.0	46.1	50.3	47.8	1.88
Liverpool	57.5	44.7	50.0	46.8	1.74
Parsonstown	59.3	42.3	51.0	47.7	2.23
Valencia	58.1	45.9	52.8	49.5	2.80
Roche's Point	59.6	46.0	51.7	48.7	3.05
Pembroke	55.1	46.0	49.9	47.4	1.97
Silly	56.3	48.2	52.7	50.3	1.66
Jersey	59.3	47.1	53.5	50.4	1.74
Hurst Castle	58.3	45.3	51.3	49.7	1.70
Dover	56.8	46.8	52.8	49.2	1.77
LONDON	62.1	44.1	52.4	48.4	1.73
Oxford	60.5	43.9	50.6	47.4	1.83
Cambridge	61.7	41.8	51.3	48.1	1.76
Yarmouth	55.4	44.8	50.3	48.0	1.85

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



GENERAL SITUATION AT 8 A.M.

PRESSURE

Highest, 30.2 ins. and upwards in the Hebrides and also in the north of Norway; 30.0 ins. and upwards, over the British Peninsula.
 Lowest, 29.3 ins. and less, in a depression lying near Stockholm.
 Gradients rather steep over Scandinavia, but slight elsewhere.
 Barometer falling a little on the east coasts of Great Britain, and more decidedly in Sweden and Germany, but rising elsewhere.

TEMPERATURE

Highest, 64° at Helmslet and Munich, 62° at Leipzig, 61° at Belfast, 60° at Nice and Lisbon, and 59° at Stockholm.
 Lowest, 41° at Stockholm, 42° at Riga, 44° at Vardø, 47° at Paris and Edinburgh, 48° at Batavia, Christiania and Melina. 49°.
 A considerable fall has taken over Ireland, England and the Netherlands.

WIND

NE^{ly} in Scandinavia and the north of Denmark, with a strong gale in the Skager Ruck.
 Moderate or fresh from the N^W over the North Sea and the east coasts of Great Britain.
 E in the west and south of our Islands; strong in force in the north of Ireland.
 NW^{ly} over the greater part of France; SW^{ly} at Lisbon.

WEATHER

Rainy in the south of Ireland, the Channel Islands and the coast of France, as well as at Stockholm and Skagen.
 Fair in most other localities, but foggy at the mouth of the Channel.
 Thunderstorms were experienced yesterday over all the southwestern parts of the United Kingdom, as well as at some of the French stations.

SEA

Very high at the Scaw, rather rough off the north of Scotland and also at Holyhead and Rock Point, moderate to smooth elsewhere.

PROBABLE CHANGES IN SYSTEM NOW PREVALENT

No very decided change is likely at present, but the local irregularities in pressure which still exist to the northward and southward of our Islands may possibly occasion showers in isolated places.

FORECASTS

For the 24 hours ending at NOON on 27th May

1890.

DISTRICTS.

FORECASTS.

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

NE^{ly} winds, moderate; fair generally.
 N^{ly} winds, moderate or fresh; fair generally but local showers.
 NE^{ly} winds, moderate; fair generally, but perhaps local showers.

DISTRICTS.

FORECASTS

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

Same as N° 0.

E^{ly} winds, moderate or fresh; cloudy, some rain.

E^{ly} winds, fresh; fair generally.

Same as N° 8

WARNINGS

NONE ISSUED.

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

YESTERDAY'S 2 P.M. REPORTS.

	THER:		WIND		WEA.	SEA		THER:		WIND		WEA.	SEA
	BAR:	D.	W.	D.	F.			BAR:	D.	W.	D.	F.	
Skudesnaes ...	29.87	54	47	NW	9	c	4	Holyhead ...	29.90	67	58	ENE	4
Sumburgh Head ...	30.19	52	51	E	6	c	6	Valencia ...					
Stornoway ...								Scilly ...					
Aberdeen ...								Jersey ...	29.83	58	55	WNW	4
Shields ...								Dungeness ...	29.83	64	58	ENE	5
Ardrossan ...								London ...					
Malin Head ...	30.00	58	53	SE	3	c	1	Yarmouth ...					
Mullaghmore ...								Rochefort ...	29.99	60	60	WNW	4
Belmullet ...	29.89	75	69	E	2	c	*						

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

The continental information not received.

SUMMARY OF CHANGES IN THE WEATHER OVER THE BRITISH ISLANDS AND THEIR NEIGHBOURHOOD FROM THE 18TH TO THE 24TH MAY 1890

The weather during the first half of this week was showery and unsettled over the western parts of the Kingdom, and at times showery and thundery over England; in the northeast and east it was finer. Temperature rose to between 60° and 70° over England during the daytime, to still higher values over Sweden, Germany and France. The wind was mainly S.E., and while pressure was high over Scandinavia, depressions of little depth passed northward over the western parts of our area, and one system, after reaching the northeast of France from the southwestward (on Monday evening) moved northward, and on Tuesday travelled away to the Atlantic across Devonshire, Cornwall and the south of Ireland.

An anticyclonic system was then developed over France and the eastern parts of England, causing a great improvement in the weather. The wind backed slowly from S.E. to E. and N.E. and the air became very dry, rainfall ceased almost everywhere, clouds were almost entirely absent, and temperature rose greatly during the daytime, though the nights were cool. At the close of the week disturbances were approaching our southwestern and southern coasts from the Bay of Biscay and France; thunderstorms were setting in on our southwestern coasts, but over the greater part of England the weather continued fine and bright.

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 27th May 1890.
Issued by the Meteorological Office, 63, Victoria Street, London. R. H. SCOTT, Secretary.

STATIONS.	YESTERDAY EVENING.						8 A.M. TO DAY.										PAST 24 HOURS.		
	Barom.	Temp.	Wind.				Barometer.	Shade Temp.	Wind.								Shade Temp.		
	Reading at 32° F. and Sea Level.	Dry.	Dir.	Force (0 to 12.)	Weather.		Reading at 32° F. and Sea Level.	Difference from 8 a.m. yesterday.	Dry.	Wet.	Difference from 8 a.m. yesterday.	Dir.	Force (0 to 12.)	Weather.	Sea (0 to 9.)		Max.	Min.	Amount of Rainfall.
SCANDINAVIA.																			
Haparanda ...	30.14	43	NE	2	c		30.12	-16	44	41	-3	S	2	c	*		48	30	-
Hernösand ...	30.03	41	"	6	c		29.86	-21	35	34	-6	NE	6	c	*		52	30	0.08
Stockholm ...	29.58	43	NNE	6	T		29.54	+31	45	47	+4	ESE	4	T	*		48	39	0.49
Wisby ...	29.49	47	S	4	c		29.51	+15	46	44	-7	S	6	T	*		63	45	0.04
Bodö ...	30.06	45	NNE	2	c		30.00	-24	50	42	+2	NNE	2	c	1		50	39	-
CHRISTIANIA.																			
Christiansund ...	30.02	49	NE	6	c		29.91	-22	43	43	+1	E	3	c	2		52	45	-
Skudesnaes ...	29.86	50	S	6	c		29.87	-04	50	46	-6	S	2	c	3		63	46	-
Christiania Fjord (Færder) ...	29.82	45	N	8	o		29.78	-01	45	37	+1	N	8	o	4		45	43	-
Skagen (The Scaw) ...	29.72	41	NE	7	o		29.72	+07	44	41	+2	NE	4	o	4		45	39	0.04
Fanö ...	29.84	42	NNW	4	c		29.84	+10	50	44	+3	NW	4	c	*		52	39	-
SCOTLAND.																			
Sumburgh Head ...	30.09	48	NE	4	c		30.15	0.0	46	41	-1	N	3	c	4		51	42	-
Stornoway ...	30.16	49	E	4	o		30.13	-08	47	47	-2	NE	4	o	4		52	44	-
Wick ...	30.10	48	NE	4	o		30.10	-08	47	45	-2	N	2	o	2		54	44	-
Nairn ...	30.12	50	ENE	2	o		30.09	-08	48	46	-1	ENE	1	o	1		53	40	-
Aberdeen ...	30.10	48	NNW	4	c		30.07	-05	48	42	-1	N	3	o	4		53	45	-
ENGLAND.																			
Leith ...	30.08	56	NE	2	c		30.08	-03	53	46	+2	NW	1	bc	*		59	40	-
Shields ...	30.04	50	N	3	o		30.02	+01	49	45	-1	N	3	o	4		53	45	-
Spurn Head ...	29.97	52	ENE	5	bc		29.99	+03	51	47	0	ENE	4	c	4		54	44	-
York ...	30.01	51	N	2	c		30.03	+02	48	45	-4	N	2	c	*		60	39	-
Loughborough ...	29.98	57	NNE	2	bc		30.03	+03	52	47	0	N	3	bc	*		63	39	-
IRELAND.																			
Ardrossau ...	30.03	59	NE	2	c		30.09	-02	49	44	-3	S	0	c	0		65	47	-
Malin Head ...	30.04	53	N	3	c		30.06	-03	53	51	+5	NNW	2	c	1		54	47	-
Mullaghmore ...	30.03	53	E	4	c		30.08	+05	52	48	+3	W	1	bc	1		59	43	-
Belmullet ...	30.01	60	ENE	3	c		30.09	+10	57	49	-7	E	1	c	*		64	44	-
Donaghadee ...	30.05	59	NE	2	c		30.10	0.0	51	48	+1	E	3	c	1		61	48	-
BRITISH ISLANDS.																			
Liverpool (Bilston) ...	29.99	58	NE	3	c		30.05	+02	51	44	-2	NE	3	bc	3		60	42	-
Holyhead ...	30.01	52	NNE	3	c		30.06	+03	52	46	+1	ENE	4	c	3		58	46	-
Parsonstown ...	29.99	58	S	0	bc		30.07	+10	53	51	+4	NE	1	c	*		62	41	-
Valencia ...	29.93	54	E	4	o		30.01	+14	56	49	+1	ENE	2	bc	2		56	49	0.05
Roche's Point ...	29.95	53	ESE	5	bc		30.01	+11	54	51	+2	E	4	bc	2		58	46	0.15
EUROPE.																			
Pembroke (St. Ann's Hd.) ...	29.96	51	E	2	bc		30.00	+06	52	53	+1	E	2	c	2		58	47	-
Scilly ...	29.90	50	E	4	T		29.89	+04	52	51	0	ENE	4	bc	2		56	47	0.45
Prawle Point ...	29.84	50	ENE	1	c		29.93	+02	48	47	-2	NE	3	bc	1		50	48	0.02
Jersey (St. Aubin's) ...	29.91	50	E	3	bc		29.91	+02	53	50	+2	E	5	bc	3		53	49	0.58
Hurst Castle ...	29.94	53	SW	4	bc		29.97	+04	54	51	0	NE	3	bc	1		63	46	-
FRANCE AND BELGIUM.																			
Dungeness ...	29.89	54	E	5	bc		29.94	+07	56	51	+3	E	4	bc	2		59	50	-
London ...	29.93	57	E	3	bc		29.98	+04	51	47	-1	NNE	2	c	*		61	44	-
Oxford ...	29.96	57	NE	2	c		30.00	+03	51	48	0	NE	3	c	*		61	39	-
Cambridge ...	29.97	53	N	2	bc		30.00	+06	53	48	+1	N	1	bc	*		61	39	-
Yarmouth ...	29.91	53	NE	4	bc		29.95	+04	51	47	-1	N	2	c	3		59	44	0.09
GERMANY.																			
Cuxhaven ...	29.81	50	N	5	bc		29.88	+12	49	48	-5	N	3	c	*		56	49	-
Berlin ...	29.74	53	NW	4	bc		29.88	?	49	44	-4	NW	5	c	*		59	43	-
Wiesbaden ...	*	*	*	*	o		29.89	+16	54	49	-1	N	2	bc	*		68	50	-
Munich ...	29.77	56	S	0	o		29.84	+11	52	51	-12	SE	4	T	*		70	50	0.32
The Helder ...	29.91	50	NNE	2	c		29.95	+11	53	48	+2	WSE	1	bc	1		54	48	-
NETHERLANDS.																			
Brussels (9 a.m.) ...	*	*	*	*	*		29.95	+11	51	47	-1	E	2	c	*		60	45	-
Cape Gris Nez ...	*	52	ENE	5	c		*	*	50	47	-1	NE	3	T	3		59	45	-
Paris ...	29.86	53	SW	2	o		29.91	+11	50	47	-5	N	2	o	*		53	47	0.08
Brest ...	29.86	60	N	1	T		29.83	-07	52	50	-4	E	3	o	3		63	48	-
Lorient ...	29.84	59	W	4	bc		29.83	-06	54	53	-1	ENE	3	o	2		59	52	-
SPAIN.																			
Rochefort ...	29.98	61	NNW	4	c		29.86	-04	59	57	0	SE	2	o	2		59	52	-
Belfort ...	29.89	60	W	1	o		29.88	?	60	51	-7	W	1	T	*		72	53	0.63
Lyons ...	29.85	59	NNW	2	T		29.88	+08	58	55	-5	E	1	c	*		71	52	0.04
Nice ...	29.77	61	NNE	1	c		29.78	+02	59	58	-1	WSE	2	c	1		70	55	-
Pierpignan ...	29.84	67	W	1	bc		29.86	-03	64	60	+2	S	0	c	*		72	59	-
Barritz ...	29.90	64	NNE	4	c		29.85	-12	58	?	+3	SE	2	T	?		72	?	?
PORTUGAL.																			
Corunna ...	*	*	*	*	*		*	*	*	*	*	*	*	*	*		*	*	*
Lisbon ...	30.06	59	W	4	bc		30.04	0.0	59	59	-1	SW	4	T	5		66	57	0.04

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

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

WEATHER CHARTS

for 8 a.m. on

Tuesday, 27th May,

1890.

BAROMETER, WIND AND SEA.

EXPLANATION OF MAP.

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

Changes since previous morning are stated in words.

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

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

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

⊙ = dead calm.

SEA DISTURBANCE—Where considerable, is shown thus:

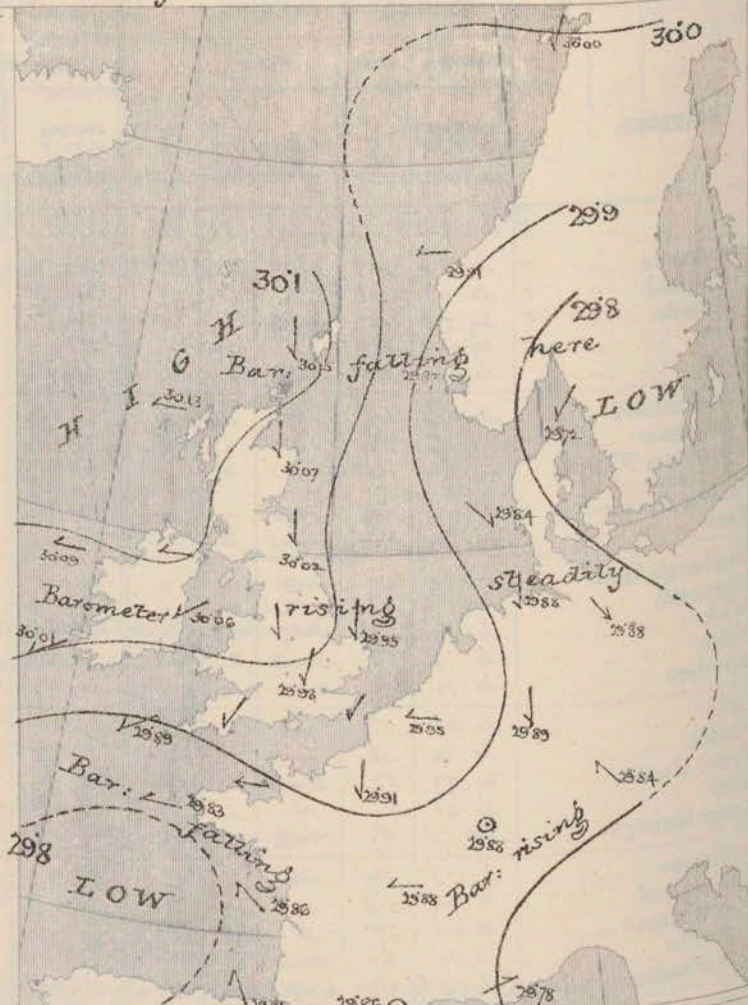
▨ = Rough. ▨ = High.

MEAN HEIGHT OF THE BAROMETER

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

During the 15 Years: 1871—1885.

STATIONS.	MEAN READINGS.
Sumburgh Head	29.878
Stornoway	29.893
Wick	29.906
Nairn	29.918
Aberdeen	29.922
Leith	29.942
Shields	29.955
York	29.974
Loughborough	29.984
Ardrossan	29.949
Donaghadee	29.959
Holyhead	29.971
Liverpool	29.974
Parsonstown	29.976
Valencia	29.994
Roche's Point	29.979
Pembroke	29.977
Scilly	29.997
Jersey	30.002
Hurst Castle	29.994
Dover	29.985
LONDON	29.995
Oxford	29.993
Cambridge	29.989
Yarmouth	29.980



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.

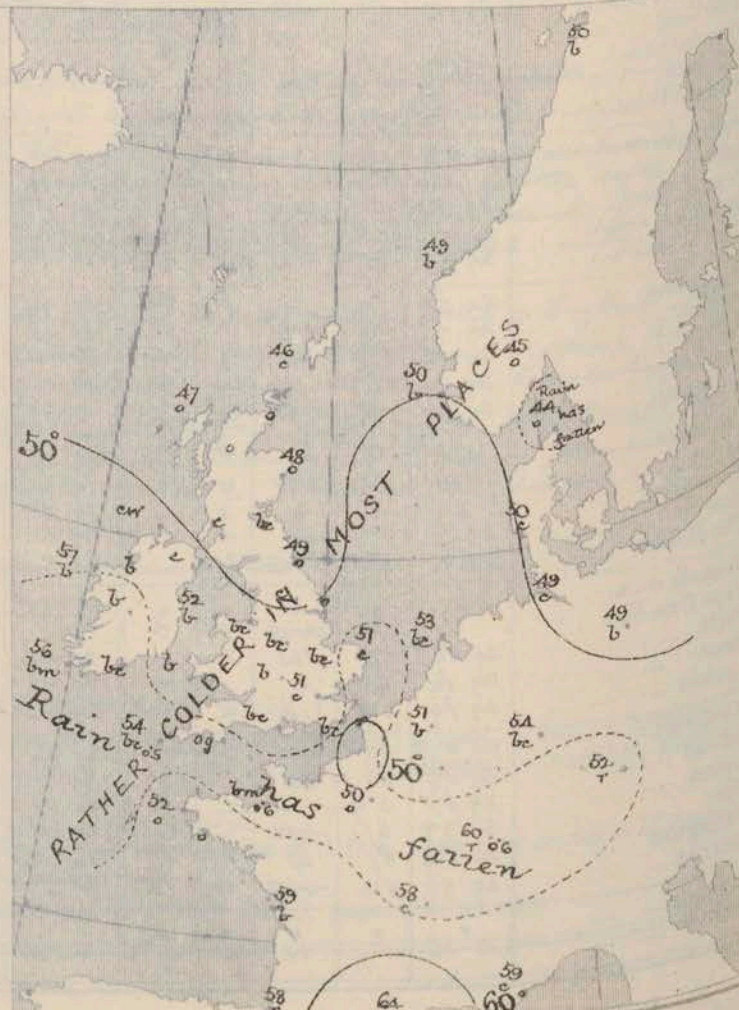
RAINFALL—A dotted line separates the districts in which rain has fallen from those where there has been none. Falls of 0.5 in. or more are quoted in figures.

MEANS OF TEMPERATURE IN SHADE, AND RAINFALL.

(For the month of May.)

STATIONS.	TEMPERATURE.				RAINFALL (Inches.)
	Daily	Daily	at 8 a.m.		
	Max.	Min.	Dry.	Wet.	
Sumburgh Head	56.2	39.9	45.9	43.9	1.71
Stornoway	52.9	40.7	48.4	46.0	2.64
Wick	53.7	40.4	47.9	45.2	1.62
Nairn	55.9	42.0	48.4	45.0	1.87
Aberdeen	55.0	41.7	48.9	45.3	1.90
Leith	57.8	42.2	50.1	46.7	1.65
Shields	54.2	43.1	49.1	45.9	1.75
York	59.3	41.9	49.6	46.4	1.71
Loughborough	61.8	42.2	51.2	47.6	1.96
Ardrossan	56.2	43.7	49.3	46.4	2.20
Donaghadee	55.9	43.0	49.5	47.3	2.15
Holyhead	58.0	46.1	50.3	47.8	1.88
Liverpool	57.5	44.7	50.6	46.8	1.74
Parsonstown	59.3	42.3	51.0	47.7	2.23
Valencia	58.1	45.9	52.8	49.5	2.89
Roche's Point	59.6	46.0	51.7	48.7	3.05
Pembroke	55.1	46.0	49.9	47.4	1.97
Scilly	56.3	48.2	52.7	50.3	1.60
Jersey	59.3	47.1	53.5	50.4	1.74
Hurst Castle	58.3	45.3	51.3	49.7	1.76
Dover	56.8	46.8	52.8	49.2	1.77
LONDON	62.1	44.1	52.4	48.4	1.73
Oxford	60.5	43.9	50.6	47.4	1.83
Cambridge	61.7	41.8	51.3	48.1	1.76
Yarmouth	63.4	44.8	50.5	48.0	1.84

NOTE.—The Temperature means are for the 15 years 1871-85, the Rainfall means are mainly those for the 20 years 1865-85.



GENERAL SITUATION AT 8 A.M.

PRESSURE

Highest, 30.0 in. to 30.1 in. and more, over the western and northern parts of Scotland. 29.9 in. to 30.0 in. over Spain.
 Lowest, about 29.5 in. or less, over the Bay of Biscay and also over the southeast of France; about 29.5 in. over Sweden (near Stockholm).
 Gradient slight— for E and NE winds, in our Islands— for W breezes over Spain; rather steep over the south of Sweden.
 Barometer rising in Ireland and the rise is spreading towards Scotland. The depression over Sweden appears to be filling up.

TEMPERATURE

Highest, 64° at Perpignan, 60° at Welfort, 59° at Rochefort, 57° at Bismmelt.
 Lowest, 33° at Hermencht, 44° at the Scaur, 46° at Dumburg Head, 48° at Aberdeen, 43° at Shields, Larkham, and Tatum, 50° at Haris, and 51° in London.
 It has been as low as 35° to 39° over the inland part of our northern and eastern counties during the night, frost on the grass.

WIND

N^{ly} light, over the North Sea and eastern part of Great Britain, NE^{ly} moderate in the Channel, E^{ly} light in Ireland.
 E^{ly} to SE^{ly} over the Bay of Biscay— SW^{ly} in Spain— NW^{ly} over North Germany.
 A N^{ly} gale prevails in the Christiania fjord.

WEATHER

Overcast at the Scotch stations and over the Sound, heavy at Stockholm; snow is falling at Hermencht.
 Raining in several parts of the Spanish Peninsula and France, but fine weather prevails over Ireland and England.
 The rainfalls collected since yesterday, is very considerable at our southern stations, at Stockholm and also at Belfast.

SEA

Moderate along our north and northeast coast and at Ryde Point, slight or smooth elsewhere.

PROBABLE CHANGES IN SYSTEM NOW PREVALENT

The general appearance is less settled than of late. Rain is probable before long both in the south and northeast, followed by thunder at some southern stations.

FORECASTS

For the 24 hours ending at NOON on 28th May. 1890.

DISTRICTS.

FORECASTS.

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

N^{ly} winds; cold, drizzle at times, and perhaps a cold shower or two.

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

DISTRICTS.

FORECASTS

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

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



E^{ly} winds, moderate to fresh, fine to unsettled.

Same as Nos 6 and 7.

Same as No 3

WARNINGS

NONE ISSUED.

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

YESTERDAY'S 2 P.M. REPORTS.

WIND										THER:		WIND					SEA
	W.	D.	F.	WEA.	SEA		BAR:	D.	W.	D.	F.	WEA.	SEA				
Skod	46	NNE	3	c	2	Holyhead ...	30.01	52	40	NNE	4	c	3				
Sum	44	N	4	c	5	Valencia ...	29.91	54	53	E	3	PM	2				
Storr	50	E	4	o	4	Scilly ...	29.84	51	51	E	4	P	3				
Aber	46	NNE	4	c	4	Jersey ...	29.91	51	50	ENE	3	PM	4				
Shiel	50	NNW	4	c	5	Dungeness ...	29.85	50	51	ENE	5	bc	8				
Ardr	46	N	3	c	2	London ...	29.93	57	51	ENE	2	c	4				
Malin Head	47	NNE	3	c	2	Yarmouth ...	29.91	57	51	NNE	4	bc	2				
Mullaghmore	56	ENE	5	c	4	Rochefort ...	29.92	64	59	WNW	4	c					
Belm	62	ESE	2	c	*												

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

Weather still fine over the greater part of England and northern parts of Ireland, as well as over southern and south-eastern Europe; clear and bright in Norway. Very unsettled over the Baltic, south of Denmark and some parts of N. Germany, dull and raining on our own southwest coast, the west of France, and the Riviera. Rainfall considerable on our southwest coasts, at Stockholm, and at Belfort later.

Temperature varying from 60° to 70° on the shores of the Mediterranean and Adriatic, and exceeding 80° in some parts of south Germany, Austria and southern Russia; much lower elsewhere, below 55° over Scotland and Scandinavia, and as low as 34° at Archangel, 36° at Helsingfors, 39° at Kio, and 41° at Kermund, Stockholm and St. Petersburg. Not exceeding 65° over England during the day, but touching 72° at Belfort and Perpignan.

Wind E⁴ on our western coasts and over the greater part of England, N⁴ moderate at our E. and N.E. stations and in the Netherlands, NE³ strong to a gale over the Skager Rack and the Gulfs of Bothnia and Finland, W⁴ over N. Germany, SW⁴ over the Baltic Provinces. Wind becoming strong in Norway later, not much change elsewhere.

Barometer highest 30.1 ins. to 30.2 ins. and more over Scotland the N. part of Scandinavia and Finland; about 30.0 ins. over the Spanish Peninsula, and exceeding 29.9 ins. on S. shores of the Mediterranean. Lowest 29.3 ins. and less in a deep depression near Stockholm and 29.6 ins. to 29.8 ins. in shallow secondary disturbances over Germany and the E. and S. of France. Depression near Stockholm beginning to fill up later and new shallow disturbance appearing over the Bay of Biscay.

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 23rd May* 1890.

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

STATIONS.	YESTERDAY EVENING.					8 A.M. TO DAY.										PAST 24 HOURS.		
	BAROM.	TEMP.	WIND.		Weather.	BAROMETER.		SHADE TEMP.			WIND.		Weather.	Sea.	SHADE TEMP.			
			Reading at 32° F. and Sea Level.	Dry.		Dirac.	Force. (0 to 12.)	Reading at 32° F. and Sea Level.	Difference from 8 a.m. yesterday.	Dry.	Wet.	Difference from 8 a.m. yesterday.			Dirac.	Force. (0 to 12.)	Max.	Min.	Amount of Rainfall.
SCANDINAVIA.																		
Haparanda ...	29.91	47	ENE	2	0	29.64	-4.8	34	34	-10	E	2	0	*	54	32	?	
Hernösand ...	29.73	36	NE	6	0	29.65	-2.3	42	39	+7	N	2	0	*	43	36	0.16	
Stockholm ...	29.61	42	NNW	2	0	29.70	+2.4	43	40	-2	NNW	4	0	*	48	36	0.24	
Wishby ...	29.73	45	NNW	6	0	29.86	+3.5	47	44	+1	W	4	0	*	52	41	—	
Bodö ...	29.87	52	NNE	2	0	29.69	-3.1	51	44	+1	ESE	1	0	*	54	43	—	
CHRISTIANIA.																		
Christiansund ...	29.76	47	NNE	2	0	29.75	-1.6	50	46	+1	WSE	4	0	3	54	45	—	
Skudesnaes ...	29.82	48	NW	6	0	29.84	-0.3	48	46	-2	NW	6	0	4	55	45	0.04	
Christiania Fjord (Færdø)	29.78	49	SW	3	0	29.73	-0.5	45	43	0	E	3	0	?	52	32	—	
Skagen (The Scaw)	29.79	47	SW	1	0	29.71	-0.1	50	49	+6	SW	2	0	2	55	43	—	
Fanø ...	29.89	48	W	4	0	29.87	+0.3	50	47	0	W	4	0	*	55	46	—	
SCOTLAND.																		
Sumburgh Head	29.95	47	NW	3	0	29.96	-1.3	48	47	+2	NW	2	0	4	50	43	0.01	
Stornoway ...	30.15	45	NE	3	0	30.14	+0.1	49	48	+2	N	3	0	3	52	45	—	
Wick ...	30.05	48	N	2	0	30.06	-0.4	49	47	+2	N	3	0	3	54	46	0.01	
Nairn ...	30.07	53	2	0	0	30.09	0.0	50	48	+2	SW	2	0	1	58	43	—	
Aberdeen ...	30.07	51	NNW	3	0	30.09	+0.2	50	46	+2	NNW	4	0	3	54	46	0.01	
ENGLAND.																		
Leith ...	30.07	54	ENE	1	0	30.10	+0.2	59	52	+6	W	1	0	*	59	42	—	
Shields ...	30.07	51	N	3	0	30.10	+0.8	50	48	+1	NNW	2	0	3	54	42	—	
Spurn Head ...	30.03	49	NNE	4	0	30.09	+1.0	50	47	-1	NNW	3	0	3	54	45	0.01	
York ...	30.06	51	N	2	0	30.13	+1.0	50	46	+2	NW	1	0	*	56	40	—	
Loughborough	30.04	53	NNW	3	0	30.14	+1.1	51	46	-1	NNW	2	0	*	57	37	—	
IRELAND.																		
Ardrossan ...	30.07	57	W	2	0	30.13	+0.4	56	51	+7	W	3	0	2	57	47	—	
Malin Head ...	30.12	51	NNW	3	0	30.19	+1.3	49	45	-4	NNW	3	0	2	54	48	—	
Mullaghmore ...	30.13	56	NW	3	0	30.23	+1.5	50	45	-2	NNW	4	0	2	59	41	—	
Belmullet ...	30.17	55	N	2	0	30.26	+1.7	51	46	-6	N	2	0	*	60	48	—	
Donaghadee ...	30.11	53	ESE	1	0	30.18	+0.8	53	50	+2	NNE	3	0	1	56	49	—	
BRITISH ISLES.																		
Liverpool (Bidston)	30.07	53	NW	3	0	30.16	+1.1	53	49	+2	NNW	2	0	3	58	47	—	
Holyhead ...	30.09	52	NNE	3	0	30.18	+1.2	57	52	+5	NNW	2	0	1	57	48	—	
Parsonstown ...	30.08	61	2	0	0	30.26	+1.6	50	47	-5	2	0	0	*	64	37	—	
Valencia ...	30.12	60	N	2	0	30.27	+2.6	55	50	-1	NNW	1	0	2	62	47	—	
Roche's Point ...	30.09	55	ESE	2	0	30.20	+1.9	53	49	-1	N	5	0	4	59	45	—	
SCOTLAND.																		
Pembroke (St. Ann's Hd.)	30.04	52	N	4	0	30.19	+1.9	53	51	+1	NNE	1	0	0	57	46	—	
Soilly ...	30.08	54	NNE	4	0	30.15	+2.6	53	52	-1	NNE	3	0	2	56	49	—	
Prawle Point ...	29.96	53	ESE	2	0	30.15	+2.2	53	49	+5	NNW	3	0	1	55	53	—	
Jersey (St. Aubin's)	29.90	58	NE	4	0	30.10	+1.9	52	48	-3	NNE	4	0	3	60	49	—	
Hurst Castle ...	29.97	56	SW	2	0	30.12	+1.5	52	49	-2	NNE	5	0	1	62	41	—	
ENGLAND.																		
Dungeness ...	29.94	53	E	5	0	30.01	+0.7	51	49	-5	NE	5	0	3	58	39	—	
London ...	29.97	57	N	3	0	30.09	+1.1	51	46	0	N	2	0	*	61	44	—	
Oxford ...	30.05	51	NE	2	0	30.13	+1.3	51	46	0	NE	3	0	*	60	39	—	
Cambridge ...	30.02	54	N	2	0	30.12	+1.2	51	46	-2	N	2	0	*	59	43	—	
Yarmouth ...	29.99	55	N	3	0	30.05	+1.0	51	47	0	N	4	0	3	56	45	—	
SCOTLAND.																		
Cuxhaven ...	29.93	53	NW	3	0	29.95	+0.7	52	51	+3	W	3	0	*	58	51	—	
Berlin ...	29.97	54	NNE	3	0	29.97	+0.9	55	50	+6	SE	3	0	*	59	45	—	
Wiesbaden ...	29.98	50	*	*	0	29.98	-0.1	57	49	+3	NE	2	0	*	63	50	—	
Munich ...	29.92	50	NE	2	0	29.98	-0.6	50	49	-2	E	5	0	*	54	45	0.39	
The Helder ...	29.98	51	NNW	1	0	30.01	+0.6	52	47	-1	NNW	2	0	2	53	48	—	
FRANCE AND BELGIUM.																		
Brussels (a.m.)	29.98	53	E	4	0	29.98	+0.3	53	48	+2	NNE	1	0	*	63	44	—	
Cape Gris Nez	29.95	58	ESE	2	0	29.91	0.0	51	47	+1	ENE	5	0	5	57	46	—	
Brest ...	29.87	56	E	4	0	30.11	+2.8	52	49	0	NNE	2	0	2	68	46	—	
Lorient ...	29.83	58	NE	4	0	30.06	+2.3	50	45	-4	NNE	4	0	3	59	48	—	
SCOTLAND.																		
Rocheport ...	29.70	55	NE	4	0	29.88	+0.2	52	49	-7	N	6	0	3	66	45	0.35	
Belfort ...	29.82	62	W	1	0	29.75	-1.3	53	53	-7	W	1	0	*	72	50	0.39	
Lyons ...	29.80	57	NNE	1	0	29.72	-1.6	54	53	-4	SW	2	0	*	71	53	0.98	
Nice ...	29.80	59	SW	5	0	29.74	-0.4	58	58	-1	SW	7	0	6	73	55	0.35	
Perpignan ...	29.66	63	NE	1	0	29.77	-0.9	60	54	-4	NW	2	0	*	71	53	—	
Biarritz ...	29.71	62	NW	3	0	29.87	+0.2	59	53	+1	NNW	5	0	3	68	54	0.47	
SPAIN.																		
Corunna ...	30.08	57	NW	4	0	30.15	+1.1	57	53	-2	N	3	0	3	64	54	—	
Lisbon ...	30.08	57	NW	4	0	30.15	+1.1	57	53	-2	N	3	0	3	64	54	—	

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

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

WEATHER CHARTS

for 8 a.m. on

WEDNESDAY, 28TH MAY,

1890.

BAROMETER, WIND AND SEA.

EXPLANATION OF MAP.

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

Changes since previous morning are stated in words.

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

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

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

⊙ = dead calm.

SEA DISTURBANCE—Where considerable, is shown thus:

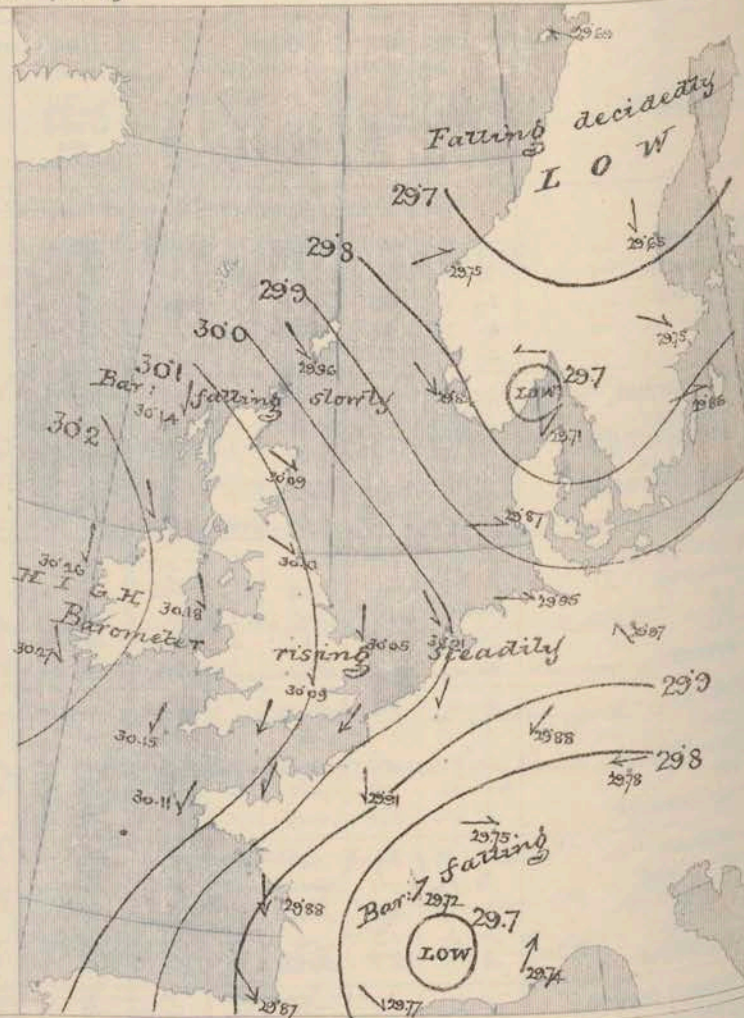
▨ = Rough, ▨ = High.

MEAN HEIGHT OF THE BAROMETER

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

During the 15 Years: 1871—1885.

STATIONS.	MEAN READINGS.
Sumburgh Head	29.878
Stornoway	29.893
Wick	29.906
Nairn	29.918
Aberdeen	29.922
Leith	29.942
Shields	29.955
York	29.974
Loughborough	29.984
Ardrossan	29.949
Donaghadee	29.959
Holyhead	29.971
Liverpool	29.974
Parsonstown	29.976
Valencia	29.981
Roche's Point	29.979
Pembroke	29.977
Silly	29.997
Jersey	30.002
Hurst Castle	29.994
Dover	29.985
LONDON	29.995
Oxford	29.993
Cambridge	29.989
Yarmouth	29.980



GENERAL SITUATION AT 8 A.M.

PRESSURE

Highest, 30.2 in and upwards, in Ireland.

Lowest, 29.7 in and less, over the northern part of Scandinavia, and also in two small depressions lying respectively over the Skagerrack and over the south of France. Gradients slight generally. Barometer rising over Ireland, England, the Netherlands, Germany, the west and north of France, and the south of France. Suction, but falling elsewhere, chiefly in the northwest of Norway.

TEMPERATURE

Highest, 60° at Perpignan, 58° at Bismarck, 56° at Nice, 57° at Calcutta, Mirebad and Baston, and 55° at Valencia and Berlin.

Lowest, 42° at Helsingfors, 43° at Stockholm, 45° at Rensselaer, 47° at Nisy, and 48° at Skutumpah and Edinburgh Head.

The highest maxima registered over our Islands yesterday were 64° at Port Antonio, and 62° at Valencia and Kurea Castle.

WIND

Light or moderate from the N^W or N^WW over the greater part of the United Kingdom; fresh or strong from the same quarters in the west of France. Moderate from the W^W in Denmark and the south of Sweden.

E^W in Germany, S^W in the southeast of France, with a moderate gale at Nice.

WEATHER

Bare at several of our western and southern stations, but cloudy or overcast in most other localities, with fog at Nice, and rain at Rochefort and Belfast.

Slight showers fell yesterday in the north and northeast of our Islands and heavy rain in France with a thunderstorm at Bismarck.

SEA

Slight or smooth generally, but rough at Nice and rather rough at Cape Gric Neg.

PROBABLE CHANGES IN SYSTEM NOW PREVALENT

Pressure appears to be giving way, decidedly over Scandinavia, and there are some indications of the approach of depressions towards the Norwegian coast. A further backing of the winds is therefore probable over the northern parts of our Islands.

FORECASTS

For the 24 hours ending at NOON on 29th May

1890.

DISTRICTS.

FORECASTS.

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

NW^W winds, moderate; fair generally, but local showers.

N^W winds, moderate; fair generally, but perhaps local showers.

DISTRICTS.

FORECASTS

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

W^W and NW^W winds, light; fair generally.

N^W winds, light or moderate; fair generally.

WARNINGS

NONE ISSUED.

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

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

YESTERDAY'S 2 P.M. REPORTS.

	BAR.	THER.		WIND		WEA.	SEA		BAR.	THER.		WIND		WEA.	SEA
		D.	W.	D.	F.					D.	W.	D.	F.		
Skudesnaes ...	29.57	53	48	WNW	4	c	3		Holyhead ...	30.08	51	45	NNE	4	c
Sumburgh Head ...	29.56	49	47	WNW	4	c	4		Valencia ...	30.08	62	53	N	3	c
Stornoway ...	30.12	51	49	E	3	c	3		Scilly ...	29.94	54	52	NE	4	c
Aberdeen ...	30.07	51	44	WNW	3	c	4		Jersey ...	29.90	59	52	NE	5	c
Shields ...	30.05	52	48	N	4	c	4		Dungeness ...	29.92	56	51	E	5	c
Ardrossan ...	30.08	54	49	SW	3	c	2		London ...	29.97	58	51	NNE	2	c
Malin Head ...	30.11	53	49	NNE	3	c	2		Yarmouth ...	29.98	55	50	NNE	4	c
Mullaghmore ...	30.11	58	53	WNW	4	c	2		Rochefort ...	29.83	62	59	ENE	3	o
Belmullet ...	30.14	58	53	NNE	2	c	*								

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

Weather fine and bright over many parts of the United Kingdom and Norway, and dry at all our stations, though dull in places fine and bright over Central and Southern Russia also, as well as on the southern shore of the Mediterranean; dull, wet, and unsettled over the Baltic and Sweden (snow at Helsingfors) and also over the Spanish Peninsula and southwest of France. Much rain over the southern parts of France and Germany later, with thunder in places, smaller quantities in Sweden, and very slight showers at some of the northern and northeastern stations.

Temperature low except in the far south. Morning readings 75° at Constantinople, 72° at Brindisi, and 70° at Barcelona; above 60° at most of the Mediterranean stations, over Southern Europe, and Southern Russia; varying from 46° to 56° in the British Islands, but as low as 33° at Archangel, 35° at Helsingfors, 37° at Krasnoyarsk, 43° at Helsingfors, and 44° at Haparanda. Continuing below 60° over the greater part of the British Isles during the day, but exceeding 70° in the afternoon over the south and west of France.

Wind N, light to moderate over North Sea and eastern parts of Great Britain. NE to E at our western stations, in Ireland, the Channel and Brittany. Cyclonic circulation of moderate to strong wind over the Baltic and surrounding countries, NW breezes over Central Europe, and SW over the Spanish Peninsula. Veering to NW over Spain later, and becoming E over the north of France; circulation over Baltic and Scandinavia undergoing great modification.

Barometer highest 30.0 in: to nearly 30.2 in: over the western and northern parts of the British Islands and also over the northern parts of Ireland and Russia; 29.9 in: to 30.1 in: over the southern half of Spain and the northern part of Africa. Lowest about 29.5 in: in a depression over Baltic and south of Sweden; 29.8 in: and less in another over the Bay of Biscay. Former depression filling up considerably later; latter moving eastwards over the southwest 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 *Thursday, 29th May, 1890.*
Issued by the Meteorological Office, 63, Victoria Street, London. R. H. SCOTT, Secretary.

STATIONS.	YESTERDAY EVENING.					8 A.M. TO DAY.										PAST 24 HOURS.		
	BAROM.	TEMP.	WIND.		Weather.	BAROMETER.		SHADE TEMP.			WIND.		Weather.	Sea. (0 to 9.)	SHADE TEMP.		Amount of Rainfall.	
	Reading at 32° F. and Sea Level.	Dry.	Dirce.	Force. (0 to 12.)		Reading at 32° F. and Sea Level.	Difference from 8 a.m. yesterday.	Dry.	Wet.	Difference from 8 a.m. yesterday.	Dirce.	Force. (0 to 12.)			Max.	Min.		
SCANDINAVIA.																		
Haparanda ...	29.54	39	SW	2	0	29.44	- .20	42	41	+ 8	SW	2	c	*	48	30	0.20	
Hernösand ...	29.64	42	Z	0	0	29.62	- .03	50	42	+ 8	W	4	b	*	54	36	-	
Stockholm ...	29.74	47	S	2	0	29.70	- .08	51	48	+ 8	NW	2	c	*	54	37	0.08	
Wishby ...	29.84	47	S	4	0	29.74	- .12	50	48	+ 3	SW	4	c	*	59	41	-	
Bodö ...	29.34	44	E	2	0	29.48	- .21	44	40	- 7	W	2	c	1	52	41	-	
SCANDINAVIA.																		
Christiansund ...	29.71	49	W	4	c	29.64	- .11	46	41	- 4	SSW	4	0	2	52	45	0.04	
Skudesnaes ...	29.85	47	WNW	2	0	29.74	- .10	49	47	+ 1	NW	2	0	3	52	45	0.04	
Christiania Fjord (Færd)	29.71	43	SW	2	bc	29.66	- .07	50	49	+ 5	SSE	2	0	2	54	?	-	
Skagen (The Seaw)	29.71	49	Z	0	0	29.67	- .04	51	46	+ 1	NW	3	0	2	59	45	-	
Fanö ...	29.89	49	NW	5	c	29.88	+ .01	54	48	+ 4	NW	6	bc	*	55	48	0.04	
SCANDINAVIA.																		
Sumburgh Head ...	29.90	46	WNW	1	T	29.75	- .21	46	44	- 2	NW	2	c	3	52	42	0.15	
Stornoway ...	30.09	49	NW	4	T	29.92	- .22	49	49	0	N	3	0	3	52	44	0.05	
Wick ...	30.00	47	N	3	0	29.88	- .18	47	45	- 2	N	3	c	2	53	42	0.03	
Nairn ...	30.06	52	WNW	3	0	29.91	- .18	49	48	- 1	ENE	2	0	3	53	45	0.01	
Aberdeen ...	30.05	51	NW	3	0	29.89	- .19	50	47	0	SW	2	op	2	58	44	0.01	
SCANDINAVIA.																		
Leith ...	30.03	62	W	2	0	29.97	- .13	53	49	- 6	W	3	cm	*	71	45	-	
Shields ...	30.05	52	SE	1	0	30.02	- .08	53	48	+ 3	NW	3	c	3	58	44	-	
Spurn Head ...	30.09	53	ESE	1	0	30.03	- .06	51	47	+ 1	NW	5	0	4	56	48	-	
York ...	30.07	62	ESE	2	c	30.06	- .07	52	47	+ 2	W	3	bc	*	69	44	-	
Loughborough ...	30.11	62	W	1	c	30.13	- .01	52	48	+ 1	WNW	3	0	*	65	44	-	
SCANDINAVIA.																		
Ardrossan ...	30.10	57	WNW	4	0	30.05	- .08	52	49	- 4	WNW	4	0	3	59	36	-	
Malin Head ...	30.18	50	NW	4	0	30.08	- .11	50	49	+ 1	WSW	4	0	2	53	49	-	
Mullaghmore ...	30.24	51	WNW	3	0	30.13	- .10	52	48	+ 2	SSW	3	0	2	54	48	-	
Belmullet ...	30.26	52	W	2	0	30.13	- .13	54	51	+ 3	WSW	3	0	*	55	47	0.01	
Donaghadee ...	30.17	53	NE	5	c	30.12	- .06	52	50	- 1	W	4	c	2	59	52	-	
SCANDINAVIA.																		
Liverpool (Bidston) ...	30.15	54	WNW	4	0	30.13	- .03	52	48	- 1	WNW	4	c	3	57	48	-	
Holyhead ...	30.17	54	NW	1	0	30.15	- .03	53	50	- 4	NW	2	c	1	59	48	-	
Parsonstown ...	30.22	57	Z	0	bc	30.18	- .08	54	52	+ 4	SW	1	c	*	60	45	-	
Valencia ...	30.29	55	WNW	2	0	30.24	- .03	55	53	0	SW	2	cm	2	57	45	-	
Roche's Point ...	30.24	60	WNW	3	0	30.24	+ .04	55	52	+ 2	W	2	c	3	62	46	-	
SCANDINAVIA.																		
Pembroke (St. Ann's Hd.) ...	30.20	54	NW	1	0	30.20	+ .01	51	50	- 2	W	1	cm	0	57	46	-	
Scilly ...	30.21	55	N	3	bc	30.23	+ .08	55	53	+ 2	WNW	3	c	2	56	50	-	
Prawle Point ...	30.15	56	W	4	0	30.22	+ .07	55	52	+ 2	SW	3	bc	1	58	53	-	
Jersey (St. Aubin's) ...	30.17	55	NW	4	0	30.22	+ .12	56	53	+ 4	NW	3	cm	3	57	50	-	
Hurst Castle ...	30.14	60	NE	2	bc	30.18	+ .06	57	54	+ 5	SSW	1	bcm	0	64	49	-	
SCANDINAVIA.																		
Dungeness ...	30.08	57	NE	4	bc	30.12	+ .11	55	51	+ 4	NW	2	b	1	59	43	-	
London ...	30.11	59	NNE	1	0	30.15	+ .06	55	50	+ 4	NW	1	cm	*	60	45	-	
Oxford ...	30.15	57	NE	1	bc	30.16	+ .03	54	49	+ 3	NE	1	0	*	63	43	-	
Cambridge ...	30.11	56	N	1	0	30.13	+ .01	53	48	+ 2	NW	1	bc	*	61	43	-	
Yarmouth ...	30.08	57	N	3	0	30.06	+ .01	54	48	+ 3	WNW	5	bc	3	57	45	-	
SCANDINAVIA.																		
Cuxhaven ...	29.97	52	NW	3	bc	29.97	+ .02	52	51	0	WNW	3	bc	*	57	51	-	
Berlin ...	29.91	58	NW	2	bc	29.97	- .00	52	47	- 3	NW	4	c	*	63	45	-	
Wiesbaden ...	*	*	*	*	*	30.09	+ .21	56	49	- 1	N	2	c	*	63	46	-	
Munich ...	29.79	51	NE	3	0	30.09	+ .31	45	44	- 5	NW	3	+	*	55	43	0.47	
The Helder ...	30.05	51	WNW	2	c	30.04	+ .03	54	51	+ 2	SW	2	c	3	57	50	-	
SCANDINAVIA.																		
Brussels (9 a.m.) ...	*	*	*	*	*	30.14	+ .16	53	49	0	SSW	1	b	*	61	46	-	
Cape Gris Nez ...	?	53	ENE	4	0	?	?	54	52	+ 2	W	3	c	2	59	48	-	
Paris ...	30.01	60	N	4	0	30.19	+ .28	51	47	0	WNW	2	b	*	66	41	-	
Brest ...	30.18	56	N	4	0	30.25	+ .14	54	52	+ 2	N	2	0	2	?	46	0.20	
Lorient ...	30.15	56	NE	4	bc	30.26	+ .20	52	50	+ 2	Z	0	bc	2	57	48	-	
SCANDINAVIA.																		
Rocheport ...	30.03	56	WNW	5	bc	30.21	+ .33	51	50	- 1	NE	4	b	?	66	41	-	
Belfort ...	30.21	53	NW	1	T	30.06	+ .31	55	44	+ 2	SW	1	c	*	67	45	0.79	
Lyons ...	29.87	53	NW	3	0	30.08	+ .36	49	46	- 5	WNW	3	0	*	63	46	0.24	
Nice ...	29.81	54	W	4	c	29.91	+ .17	56	53	- 2	SW	2	b	2	59	50	1.10	
Perpignan ...	29.91	62	NW	3	c	30.11	+ .34	56	50	- 4	NW	3	0	*	70	54	0.04	
Biarritz ...	30.13	57	WNW	4	0	30.22	+ .35	57	51	- 2	W	3	c	2	59	54	-	
SCANDINAVIA.																		
Corunna ...	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	
Lisbon ...	30.10	58	WNW	6	0	30.12	- .03	60	55	+ 3	NNE	1	b	3	64	55	-	

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

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

WEATHER CHARTS

for 8 a.m. on

Thursday,

29th May,

1890.

BAROMETER, WIND AND SEA.

EXPLANATION OF MAP.

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

Changes since previous morning are stated in words.

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

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

→ = forces 5 to 7; → = forces 1 to 4.

⊙ = dead calm.

SEA DISTURBANCE—Where considerable, is shown thus:

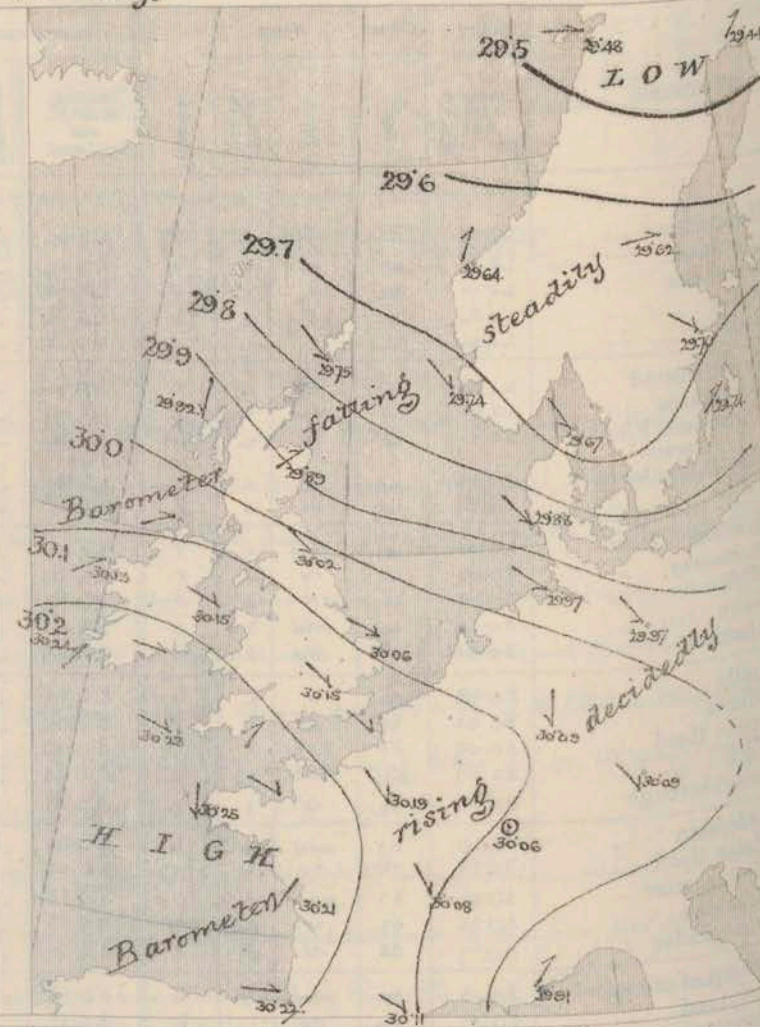
▨ = Rough, ▨ = High.

MEAN HEIGHT OF THE BAROMETER

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

During the 15 Years: 1871—1885.

STATIONS.	MEAN READINGS.
Sumburgh Head	29.878
Stornoway	29.893
Wick	29.906
Nairn	29.918
Aberdeen	29.922
Leith	29.942
Shields	29.965
York	29.974
Loughborough	29.984
Ardrossan	29.949
Donaghadee	29.959
Holyhead	29.971
Liverpool	29.974
Parsonstown	29.976
Valencia	29.984
Rocha's Point	29.979
Pembroke	29.977
Scilly	29.997
Jersey	30.002
Hurst Castle	29.994
Dover	29.985
LONDON	29.985
Oxford	29.993
Cambridge	29.989
Yarmouth	29.980



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.

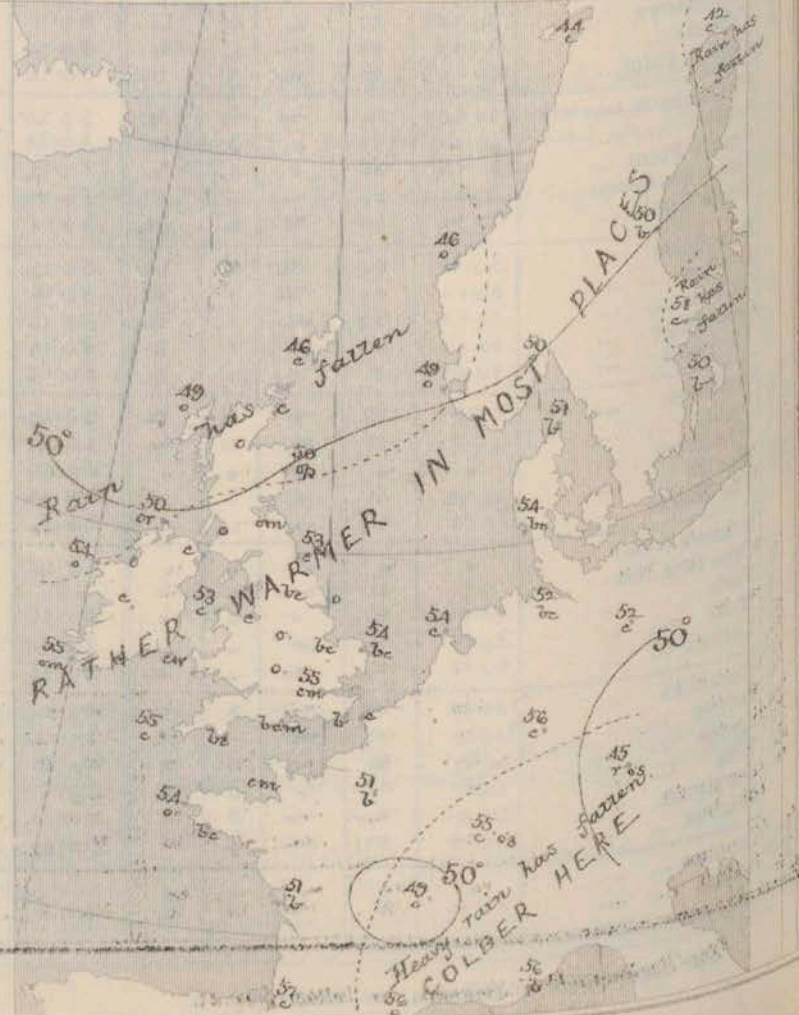
RAINFALL—A dotted line separates the districts in which rain has fallen from those where there has been none. Falls of 0.5 in. or more are quoted in figures.

MEANS OF TEMPERATURE IN SHADE, AND RAINFALL.

(For the month of May.)

STATIONS.	TEMPERATURE.				RAINFALL. (Inches.)
	Daily Max.	Daily Min.	at 8 a.m.		
			Dry.	Wet.	
Sumburgh Head.....	50.2	39.9	45.9	43.0	1.71
Stornoway	52.0	40.7	48.4	46.0	2.04
Wick.....	53.7	40.4	47.9	45.2	1.62
Nairn.....	55.9	42.0	48.4	45.0	1.07
Aberdeen.....	55.0	41.7	48.9	45.3	1.90
Leith.....	57.8	42.2	50.1	46.7	1.65
Shields.....	54.2	43.1	49.1	45.9	1.75
York.....	59.3	41.6	49.6	46.4	1.71
Loughborough.....	61.5	42.2	51.2	47.6	1.96
Ardrossan.....	56.2	43.7	49.3	46.4	2.20
Donaghadee.....	55.8	43.6	49.5	47.3	2.15
Holyhead.....	56.0	46.1	50.3	47.8	1.88
Liverpool.....	57.5	44.7	50.6	48.8	1.74
Parsonstown.....	59.3	42.3	51.0	47.7	2.23
Valencia.....	58.1	45.9	52.2	49.5	2.89
Rocha's Point.....	59.6	46.6	51.7	48.7	3.05
Pembroke.....	55.1	46.0	49.9	47.4	1.97
Scilly.....	59.3	48.2	52.7	50.3	1.60
Jersey.....	59.8	47.1	53.5	50.4	1.74
Hurst Castle.....	58.4	45.3	51.3	49.7	1.76
Dover.....	56.8	46.8	52.8	49.2	5.77
LONDON.....	62.1	44.1	62.4	48.1	1.73
Oxford.....	60.5	43.9	50.6	47.4	1.85
Cambridge.....	61.7	41.8	51.6	48.4	1.76
Yarmouth.....	55.5	41.8	50.5	48.0	1.85

NOTE—The Temperature means are for the 15 years 1871-85, the Rainfall means are for the 30 years 1861-90.



GENERAL SITUATION AT 8 A.M.

PRESSURE

Highest, 30.2 in. and upwards, in an anticyclone lying over the southwest of our Islands, the west of France, the Bay of Biscay and the north of Spain.
Lowest, 29.5 in. and less, over the northern parts of Scandinavia.

Gradients slight generally. Barometer rising in France, Germany, and the extreme south of England, but falling elsewhere.

TEMPERATURE

Highest, 60° at Lisbon, 57° at Huntly and Birmm, and 56° at Jersey, Gibraltar, Penzance and Wick.

Lowest, 42° at Haparanda, 44° at Oslo, 45° at Munich, 46° at Christiansund and Lumburg, and 47° at Kiel.

The highest maxima registered over our Islands yesterday were 71° at Lough, 69° at York, 65° at Loughborough, and 64° at Huntly.

WIND

Light from the N.W. in the north of Scotland; moderate to fresh from the N.W. over Denmark, Germany, and the eastern parts of England and France.

SW. in the west of Ireland, and also at some of the northern Scandinavian stations; N. in the east of France.

WEATHER

Fair over the greater part of Western Europe, but dull in

A solar halo is reported at Huntly.

Rain is falling at Malin Head and Munich and passing

at Aberdeen.

Heavy rain fell yesterday in the east and south of France;

lunar halos were seen at night at some of the English and Irish stations.

SEA

Slight or smooth generally.

PROBABLE CHANGES IN SYSTEM NOW PREVALENT

Conditions are becoming favourable for the advance of cyclonic disturbances from the westward, and a gradual change to unsettled showery weather is therefore probable. The eastern and southeastern parts of the Kingdom are scarcely likely to be affected during the ensuing twenty-four hours.

FORECASTS

For the 24 hours ending at NOON on 30TH MAY

1890.

DISTRICTS.

FORECASTS.

0 SCOTLAND NORTH

N. winds, backing later; cloudy, some rain.

1 SCOTLAND EAST

W. and SW. winds, light; cloudy, some showers.

2 ENGLAND N.E.

3 ENGLAND EAST

Same as No 5

4 MIDLAND COUNTIES

5 ENGLAND SOUTH

N.W. to W. or SW. winds, light; fair generally, warmer.

DISTRICTS.

FORECASTS

6 SCOTLAND WEST

W. to SW. winds, moderate; fair to cloudy and showery.

7 ENGLAND N.W.

8 ENGLAND S.W.

W. to SW. winds, moderate; fair generally.

9 IRELAND NORTH

10 IRELAND SOUTH

SW. winds, light to fresh; cloudy, some rain.

WARNINGS

NONE ISSUED.

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

YESTERDAY'S 2 P.M. REPORTS.

	BAR:	THER:		WIND		WEA.	SEA		BAR:	THER:		WIND		WEA.	SEA
		D.	W.	D.	F.					D.	W.	D.	F.		
Skudesnaes ...	29.86	51	45	NW	6	c	4		Holyhead ...	30.19	59	52	NW	1	b
Sumburgh Head ...	29.92	52	49	NW	3	o	4		Valencia ...	30.30	57	51	N	3	bm
Stornoway ...	30.11	51	50	N	3	o	3		Scilly ...	30.18	55	53	N	4	c
Aberdeen ...	30.06	55	49	NW	4	cq	3		Jersey ...	30.13	56	48	N	5	c
Shields ...	30.10	55	51	E	2	b	3		Dungeness ...	30.05	58	51	NE	5	bc
Ardrossan ...	30.11	57	50	W	3	b	2		London ...	30.12	57	49	NW	3	o
Malin Head ...	30.20	51	46	NW	3	o	2		Yarmouth ...	30.08	55	51	NE	4	bc
Mullaghmore ...	30.24	53	47	NW	3	o	2		Rochefort ...	29.98	64	59	NE	2	bc
Belmullet ...	30.26	53	47	W	2	o	*								

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

Weather fine and bright over the greater part of the British Islands and Northwestern Europe, over Southeastern Europe, and on the southern shore of the Mediterranean; changeable and unsettled elsewhere—dull in most localities and rainy in many. A good deal of rain over the southern parts of France later, and smaller quantities in Scandinavia and Scotland. Sky beginning to look less fair over London.

Temperature inclined to recover a little in extreme northwest, low, with a tendency to fall, elsewhere. Morning values ranging between 65° and 75° over southern and eastern parts of Mediterranean and exceeding 60° over Southern Russia, much lower elsewhere; below 50° at several of our own stations and as low 34° at Kapananda, 38° at Archangel, 42° at Kholmogor, 45° at Kholmogor and Tander, 48° at Sumburgh Head. Rising to 71° at Seith and 69° at York later but to only 60° in London; to between 60° and 70° over the greater part of France.

Wind light to fresh from the N^W (NW to NE) in our Islands and the west and north of France, NW² over the North Sea; SE² and S², moderate to strong, over the eastern parts of the Mediterranean, W² to SW² over the Baltic Provinces and Finland, variable elsewhere. Backing a little at our northern stations later.

Barometer highest, 30.1 in: to 30.3 in: over Portugal, the western parts of our Islands and adjacent portions of Atlantic, 30.0 in: to 30.1 in: over the northern and eastern parts of Russia, lower over the intermediate regions. Lowest, 29.7 in: and less, in a shallow complex disturbance over Scandinavia, and in another system over the south of France. Rainy at the French stations later, but falling a little in Scotland and Norway.

Remarks on the Weather for 24 hours ended 8 am Monday 26th May 1890.

Weather dull and gloomy over nearly the whole of Northern Europe, with cold rain at several Scandinavian stations, gloomy on many parts of our southwestern coasts and in the west of France, with fog, rain, and thunder at times. Fine generally elsewhere. Thunderstorms and rain later in many parts of France, the Channel Islands, and southwestern parts of the United Kingdom, and considerable falls of cold rain over the Baltic and southern half of Scandinavia.

Temperature falling fast in north, still high (above 60°) over England and France. Morning readings ranging from 63° to 70° at the Mediterranean stations, and exceeding 60° over Southern Russia. Below 50° at many northern stations, and as low as 30° at Archangel, 39° at Kapananda, 43° at Kiepia, 47° at Moscow, and 48° in the north and east of Scotland. Rising to above 80° in several parts of Algeria and over France during day and to above 70° in Italy and over England. Cold in north spreading southwards with modified severity later, and affecting London by evening.

Wind N² on our northeast coasts, NE² in the east and south, E² in the west, W² over the Bay of Biscay and Spain, very variable over France and Mediterranean. Complete cyclonic circulation prevailing over Baltic and Scandinavia (N² gale in several places). NE² winds freshening in our Islands later, while the W² wind reached the mouth of the English Channel; N² wind freshening on eastern shores of North Sea.

Barometer highest, 30.0 in: to 30.2 in: over the northwestern parts of the British Islands and Scandinavia and adjacent parts of the Atlantic; 29.9 in: to 30.0 in: over Spain and the southwest of France, and exceeding 29.9 in: over all the southern part of the Mediterranean. Lowest, about 29.7 in: in a large depression, centre of which lay near Stockholm, 29.8 in: and less, in two others—one off our southwest coast, the other near Havre. Baltic depression growing deeper later, that over France falling up that in southwest moving westwards.

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 30TH MAY. 1890.

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

STATIONS.	YESTERDAY EVENING.					8 A.M. TO DAY.										PAST 24 HOURS.		
	BAROM.	TEMP.	WIND.		Weather.	BAROMETER.		SHADE TEMP.			WIND.		Weather.	Sea. (0 to 9.)	SHADE TEMP.		Amount of Rainfall.	
			Reading at 32° F. and Sea Level.	Dry.		Dirce.	Force. (0 to 12.)	Reading at 32° F. and Sea Level.	Difference from 8 a.m. yesterday.	Dry.	Wet.	Difference from 8 a.m. yesterday.			Dirce.	Force. (0 to 12.)		Max.	Min.
SCANDINAVIA.																		
Haparanda ...	29.51	42	SW	2	C	29.46	+0.2	44	47	+6	SW	2	bc	*	44	34	—	
Hernösand ...	29.54	46	SW	2	T	29.45	-0.17	46	45	-4	SW	2	T	*	57	36	0.04	
Stockholm ...	29.57	51	SW	2	O	29.44	-0.26	52	47	+1	SW	4	O	*	64	45	—	
Wisby ...	29.65	52	SW	4	T	29.54	-0.20	52	49	+2	SW	6	C	*	63	45	—	
Bodo ...	29.56	42	WSPW	4	C	29.54	+0.6	43	39	-1	WSPW	2	C	1	45	37	0.04	
FRANCE AND BELGIUM.																		
Christiansund	29.57	47	SW	2	T	29.50	-0.14	47	44	+1	NE	2	O	3	44	45	0.01	
Skudesnaes ...	29.62	46	NW	3	T	29.54	-0.20	47	42	-2	NW	6	C	4	50	41	0.01	
Christiania Fjord (Pierder)	29.47	53	SE	2	C	29.37	-0.29	51	48	+1	NNW	1	C	3	54	41	—	
Skagen (The Seaw)	29.53	49	W	6	O	29.42	-0.25	50	46	-1	W	4	C	4	53	45	—	
Fanö ...	29.76	50	WSPW	6	C	29.59	-0.29	48	46	-6	WNW	4	T	*	57	45	0.16	
BRITISH ISLANDS.																		
Sumburgh Head	29.76	44	N	3	T	29.67	-0.08	42	39	-4	N	3	C	4	50	35	0.11	
Stornoway ...	29.89	49	NW	4	C	29.96	+0.4	39	39	-10	N	5	C	5	51	35	0.06	
Wick ...	29.83	49	N	3	C	29.82	-0.06	45	42	-2	N	4	O	3	54	36	0.20	
Nairn ...	29.84	47	ENE	1	T	29.50	-0.1	44	42	-5	WNW	5	C	4	53	40	0.14	
Aberdeen ...	29.85	47	WNW	2	O	29.83	-0.06	44	39	-6	NW	5	bcg	4	53	39	0.10	
GERMANY.																		
Leith ...	29.86	50	W	1	T	29.89	-0.08	48	42	-5	N	2	C	*	58	43	0.17	
Shields ...	29.88	53	W	2	O	29.85	-0.17	46	45	-7	WNW	2	O	2	58	43	0.20	
Spurn Head ...	29.96	53	W	5	O	29.84	-0.19	49	47	-2	N	3	Tm	3	59	44	0.16	
York ...	29.98	53	W	1	O	29.85	-0.21	50	48	-2	N	2	C	*	64	44	0.09	
Loughborough	30.02	58	W	2	O	29.90	-0.23	53	52	+3	W	4	bcg	*	63	49	0.15	
HOLLAND.																		
Ardrrossan ...	29.86	50	W	3	T	29.94	-0.11	47	42	-5	NNW	5	C	3	58	38	0.36	
Malin Head ...	29.87	50	NNW	3	O	30.04	-0.04	46	41	-4	NNW	5	bcg	3	52	44	0.36	
Mullaghmore ...	29.95	53	WSPW	6	O	30.08	-0.05	50	46	-2	N	6	C	4	55	48	0.38	
Belmullet ...	30.00	54	WNW	2	O	30.13	0.00	50	46	-4	NNW	2	C	*	55	48	0.35	
Donaghadee ...	29.87	53	W	3	T	30.02	-0.10	50	47	-2	NNW	5	bc	3	59	48	0.24	
IRELAND.																		
Liverpool (Bidston)	29.99	53	SW	4	O	29.94	-0.19	50	46	-2	WNW	6	bc	4	57	49	0.18	
Holyhead ...	30.00	52	SW	5	Tagg	30.00	-0.15	52	47	-1	NNW	5	C	4	61	49	0.09	
Parsonstown ...	30.04	56	WSPW	2	O	30.09	-0.09	52	49	-2	N	0	C	*	59	50	0.12	
Valencia ...	30.15	53	SW	5	O	30.13	-0.11	54	53	-1	N	2	Tm	2	58	53	0.06	
Roche's Point...	30.13	58	W	4	C	30.09	-0.15	53	53	0	N	3	C	3	61	54	0.01	
SPAIN.																		
Pembroke (St. Ann's Hd.)	30.10	53	WSPW	4	C	30.05	-0.15	52	52	+1	NNW	2	O	2	53	50	0.06	
Scilly ...	30.21	53	W	4	C	30.12	-0.11	55	54	0	W	5	O	3	58	51	—	
Prawle Point ...	30.18	53	W	5	bc	30.07	-0.15	56	55	+1	W	6	bc	3	59	51	—	
Jersey (St. Aubin's)	30.22	56	W	4	C	30.15	-0.07	54	53	-2	W	5	omg	4	58	52	—	
Hurst Castle ...	30.12	60	WNW	4	bc	30.00	-0.11	57	56	0	W	6	C	3	62	53	—	
PORTUGAL.																		
Dungeness ...	30.04	57	WSPW	5	C	29.90	-0.22	56	55	+1	W	6	C	4	61	52	—	
London ...	30.06	61	W	3	C	29.93	-0.22	52	51	-3	NNW	2	O	*	65	50	0.06	
Oxford ...	30.03	54	SW	4	O	29.96	-0.20	52	50	-2	NW	2	T	*	63	50	0.15	
Cambridge ...	30.00	59	SW	1	O	29.91	-0.22	53	52	+2	NW	1	C	*	62	51	0.09	
Yarmouth ...	30.01	59	W	2	C	29.83	-0.23	54	51	0	NW	4	bc	3	60	50	0.10	
ITALY.																		
Cuxhaven ...	29.87	51	W	4	T	29.73	-0.24	50	49	-2	SW	3	T	*	56	49	0.24	
Berlin ...	29.90	55	SW	3	C	29.81	-0.16	56	52	+4	WSPW	4	O	*	57	52	0.12	
Wiesbaden ...	30.00	58	SW	3	C	29.99	-0.10	57	50	+3	SW	5	C	*	60	50	—	
Munich ...	30.16	58	SW	2	C	30.16	+0.07	57	49	+10	SW	5	C	*	59	43	—	
The Helder ...	29.97	53	W	2	C	29.69	-0.35	53	51	-1	WNW	5	C	4	53	52	0.20	
GREECE.																		
Brussels (9 a.m.)	*	*	*	*	*	29.93	-0.21	53	51	0	WSPW	3	O	*	67	51	0.20	
Cape Gris Nez	30.13	53	W	5	O	30.13	-0.06	53	52	-1	W	7	O	6	63	52	—	
Paris ...	30.26	56	NNW	3	O	30.20	-0.05	56	53	+2	W	4	O	3	70	46	0.16	
Brest ...	30.26	54	W	3	bc	30.24	-0.02	55	51	+3	NW	4	bc	4	63	52	—	
Lorient ...	30.32	61	NW	4	bc	30.25	+0.04	57	55	+6	NW	4	C	2	66	50	—	
Rocheport ...	30.09	67	SW	1	C	30.17	+0.11	53	46	0	W	1	bc	*	69	34	—	
Belfort ...	30.15	58	NW	2	bc	30.23	+0.15	57	51	+8	NNW	2	C	*	59	49	—	
Lyons ...	30.02	61	WSPW	4	C	30.12	+0.21	59	55	+3	ENE	4	C	2	66	52	—	
Nice ...	30.17	65	NW	4	O	30.26	+0.15	61	54	+5	W	2	C	*	69	54	—	
Perpignan ...	30.26	61	NNW	3	C	30.30	+0.04	58	53	+1	SE	1	C	0	66	52	—	
Biarritz ...	30.27	61	NNW	3	C	30.27	0.00	58	54	-1	NNW	2	C	2	64	46	—	
Corunna ...	30.10	65	N	3	C	30.18	+0.06	62	53	+2	NNE	4	C	5	73	57	—	
Lisbon ...	30.10	65	N	3	C	30.18	+0.06	62	53	+2	NNE	4	C	5	73	57	—	

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

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

WEATHER CHARTS

for 8 a.m. on

Friday, 30th May,

1890.

BAROMETER, WIND AND SEA.

EXPLANATION OF MAP.

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

Changes since previous morning are stated in words.

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

their barbs and feathers refer to force thus—

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

→ = forces 5 to 7; → = forces 1 to 4.

⊙ = dead calm.

SEA DISTURBANCE—Where considerable, is shown thus:

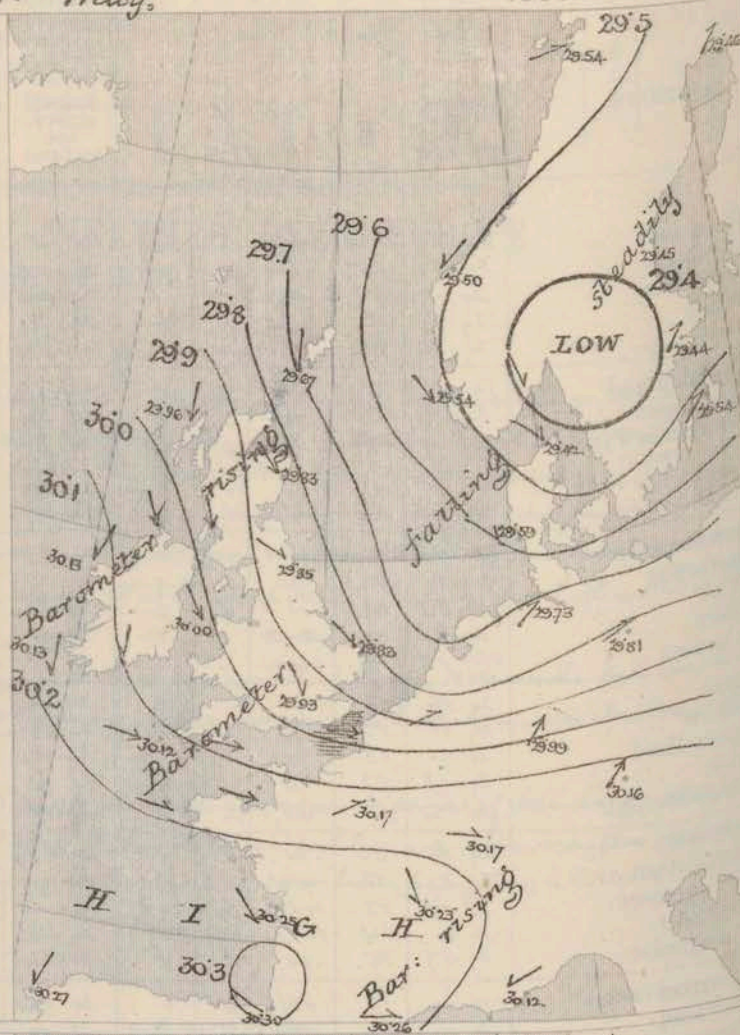
▨ = Rough. ▨ = High.

MEAN HEIGHT OF THE BAROMETER

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

During the 15 Years: 1871—1885.

STATIONS.	MEAN READINGS.
Sumburgh Head	29.878
Stornoway	29.893
Wick	29.906
Nairn	29.918
Aberdeen	29.922
Leith	29.942
Shields	29.955
York	29.974
Loughborough	29.984
Ardrossan	29.949
Donaghadee	29.959
Holyhead	29.971
Liverpool	29.974
Parsonstown	29.976
Valencia	29.984
Roche's Point	29.979
Pembroke	29.977
Scilly	29.997
Jersey	30.002
Hurst Castle	29.994
Dover	29.985
LONDON	29.995
Oxford	29.993
Cambridge	29.989
Yarmouth	29.980



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.

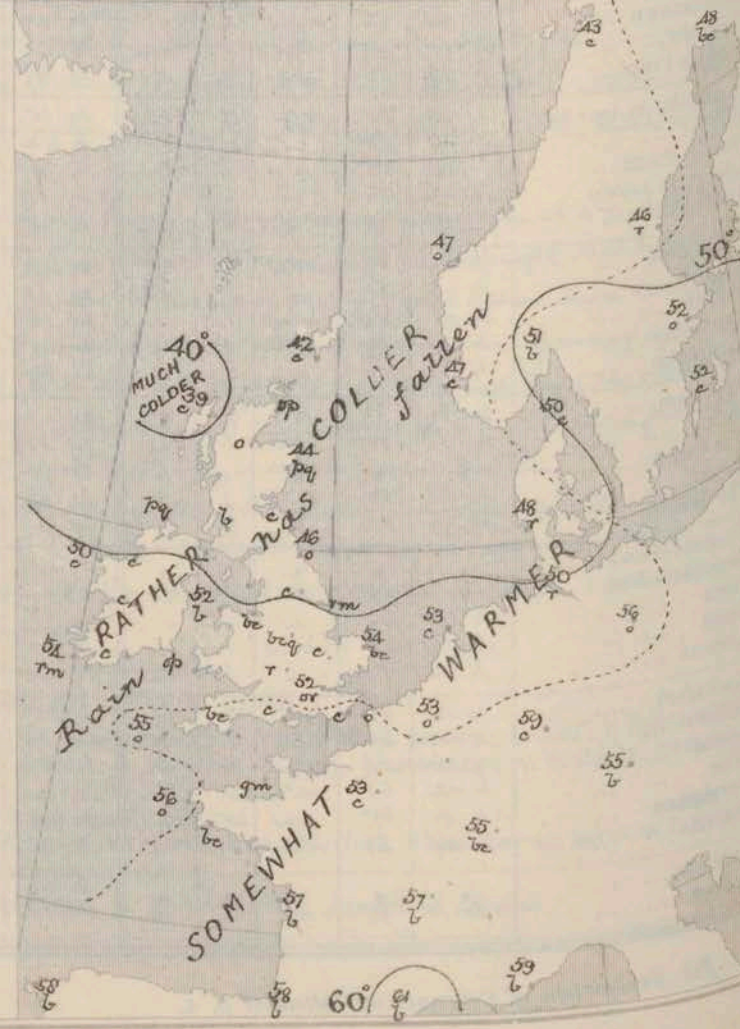
RAINFALL—A dotted line separates the districts in which rain has fallen from those where there has been none. Falls of 0.5 in. or more are quoted in figures.

MEANS OF TEMPERATURE IN SHADE, AND RAINFALL.

(For the month of May.)

STATIONS.	TEMPERATURE.				RAINFALL (Inches.)
	Daily Max.	Daily Min.	at 8 a.m. Dry.	Wet.	
Sumburgh Head.....	50.2	39.9	45.9	43.9	1.71
Stornoway	52.9	40.7	48.4	46.0	2.64
Wick	53.7	40.4	47.9	45.2	1.62
Nairn	55.9	42.0	48.4	45.0	1.67
Aberdeen	55.0	41.7	48.0	45.3	1.90
Leith	57.8	42.2	50.1	46.7	1.65
Shields	54.2	43.1	49.1	45.9	1.75
York	59.3	41.6	49.6	46.4	1.71
Loughborough	61.5	42.2	51.2	47.6	1.90
Ardrossan	56.2	43.7	49.3	46.4	2.20
Donaghadee	55.9	43.0	49.5	47.3	2.15
Holyhead	56.0	46.1	50.3	47.8	1.88
Liverpool	57.5	44.7	50.0	46.8	1.74
Parsonstown	59.3	42.3	51.0	47.7	2.23
Valencia	58.1	45.9	52.8	49.5	2.89
Roche's Point	59.0	46.0	51.7	48.7	3.05
Pembroke	55.1	46.0	49.9	47.4	1.97
Scilly	50.3	48.2	52.7	50.3	1.06
Jersey	59.3	47.1	53.5	50.4	1.74
Hurst Castle	58.3	45.3	51.3	49.7	1.70
Dover	56.8	46.8	52.8	49.2	1.77
LONDON	62.1	44.1	52.4	48.4	1.73
Oxford	60.5	43.9	50.6	47.4	1.83
Cambridge	61.7	41.8	51.3	48.1	1.76
Yarmouth	55.4	44.8	50.5	48.0	1.85

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 in: at Biarritz; 30.2 in: and upwards, over the Bay of Biscay, the west and south of France, and the north of Spain.
 Lowest, 29.4 in: and less, in a large but shallow depression lying over the south of Scandinavia. Shallow secondary disturbances occur over various parts of our Islands and the North Sea.
 Gradient moderate. Barometer rising on our extreme west and northwest coasts, as well as in some parts of France, but falling elsewhere.

TEMPERATURE

Highest, 62° at Lisbon, 61° at Perpignan, 59° at Middelburg and Nice, 58° at Biarritz, and 57° at Hookfort and Lyons.
 Lowest, 39° at Stromsøy, 40° at Lumburg Head, 43° at Brest, 44° at Kinn and Aberdeen, and 45° at Wick.
 The highest maxima registered over our Islands yesterday were 65° in London, and 63° at York, Loughborough, and Oxford.

WIND

Moderate to strong from the NW^d or N^d over the North Sea and the greater part of our Islands, but W^d at the Channel stations.
 Moderate or fresh from the W^d and SW^d over Denmark, Germany, and the south of Sweden.
 Variable in the north of Scandinavia and also in the south of France.

WEATHER

Showery in many parts of the United Kingdom, and rainy in the south of Denmark, as well as at Helsingfors.
 Fine in France and the south of Germany.
 Solar and lunar halos were seen yesterday in the south of England, and considerable amounts of rain fell at some of our NW stations.

SEA

Rough at Cape Fin Rey and rather rough at Stromsøy and Lisbon, but moderate to smooth elsewhere.

PROBABLE CHANGES IN SYSTEM NOW PREVALENT

The NW^d and N^d winds seem likely to spread to our southern districts shortly, with cooler weather. The barometric rise in the west is, however, very slight and it is therefore not likely that the change will prove to be permanent.

FORECASTS

For the 24 hours ending at NOON on 31st May

1890.

DISTRICTS.

FORECASTS.

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

N^w winds, moderate or fresh; changeable, some showers.
 N^w winds, moderate; changeable, some showers, colder.
 W^h to NW^w winds, fresh; changeable, some showers, colder.

DISTRICTS.

FORECASTS

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

NW^w winds, strong to moderate; fair generally, but local showers.
 N^w winds, backing later; fair generally, but local showers.

WARNINGS

NONE ISSUED.

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

YESTERDAY'S 2 P.M. REPORTS.

	THER:								WIND								
	BAR:	D.	W.	D.	F.	WEA.	SEA			BAR:	D.	W.	D.	F.	WEA.	SEA	
Skudesnaes ...	29.69	50	49	W	2	0	3	Holyhead ...	...	30.11	55	49	SW	4	C	2
Sumburgh Head ...	29.75	40	43	N	4	C	4	Valencia ...	...	30.21	58	56	SW	5	om	5
Stornoway ...	29.91	49	49	Z	0	0	2	Scilly ...	...	30.23	57	55	W	4	0	2
Aberdeen ...	29.88	52	46	NW	2	0p	2	Jersey ...	...	30.22	58	53	WNW	4	Cm	3
Shields ...	29.56	56	52	W	4	0	2	Dungeness ...	...	30.07	60	56	WNW	4	C	3
Ardrossan ...	29.97	51	49	WNW	4	T	3	London ...	...	30.10	64	53	W	5	C	3
Malin Head ...	29.94	50	50	SW	3	OT	2	Yarmouth ...	...	30.06	57	51	WNW	4	C	3
Mullaghmore ...	30.00	54	53	SW	5	OT	3	Rocheport ...	...	30.28	64	53	NW	3	C	3
Belmullet ...	30.03	54	54	WNW	3	om	*										

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

Weather fine and bright over the Bay of Biscay, France, Spain, the southern parts of the Mediterranean, Southern Europe, and Central Russia; cloudy or overcast and unsettled elsewhere, with rain in the north of the British Isles, over Central Europe, and in the south of France. Some rain falling generally over our Islands and their neighbourhood later, — except in the south of England, and small quantities over Scandinavia and Germany.

Temperature changing irregularly. Morning readings 76° at Constantinople, and ranging between 65° and 72° over the southern parts of the Mediterranean; lower elsewhere — below 50° in the north of our Islands, Norway, and over Northern Europe, and as low as 42° at Uleaborg and Kuopio, and 44° at Rode and Archangel, 45° at St Petersburg, 46° at Lumburg Ht. and Helsingfors. Rising later to between 60° and 65° in many parts of the British Isles, and to between 65° and 70° in many parts of France, but not touching 60° in Germany.

Wind SW², light, over Finland, the northern parts of Russia and the Baltic Provinces, W¹ on the German coast, NW⁴ over the North Sea and Great Britain, as well as over Western Germany and Austria. Anticyclonic circulation of light winds over Spain, France, England and Ireland, but small cyclonic circulations over Austria-Hungary and the northeastern shores of the Mediterranean. New cyclonic circulation advancing to our northwestern district later.

Barometer highest, 30.1 ins. to 30.3 ins. over Western Europe, and exceeding 29.9 ins. over the Iberian Peninsula and Southern Russia; lowest 29.5 ins. and less, in a low-pressure area over Lapland, 29.7 ins. and less, in a small depression between Lemberg and Kieff, and about 29.9 ins. over the Gulf of Genoa. New secondary depression advancing to our northwest coast later, and travelling southward towards North Sea.

EXPLANATION OF COLUMNS GIVEN ON PAGE 1.

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

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

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

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

DAILY WEATHER REPORT.

for *Saturday, 31st May,* 1890.
 Issued by the Meteorological Office, 63, Victoria Street, London. R. H. SCOTT, Secretary.

R. H. SCOTT, Secretary.																		
STATIONS.	YESTERDAY EVENING.					8 A.M. TO DAY.										PAST 24 HOURS.		
	BAROM. Reading at 32° F. and Sea Level.	TEMP. Dry.	WIND.		Weather.	BAROMETER.		SHADE TEMP.			WIND.		Weather.	Sea. (0 to 4.)	SHADE TEMP.		Amount of Rainfall.	
			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 ...	29.41	48	Z	0	c	29.39	- .13	51	49	+ 3	Z	0	o	*	55	37		
Hernösand ...	29.32	42	NE	4	r	29.25	- .20	45	44	- 1	NE	4	r	*	48	41	0.63	
Stockholm ...	29.27	48	S	2	c	29.22	- .22	49	46	- 3	N	4	o	*	59	48	0.04	
Wisby ...	29.34	49	SW	4	bc	29.39	- .21	48	45	- 3	WSW	6	c	*	57	46	0.12	
Bodo ...	29.49	45	N	2	b	29.47	- .07	46	42	+ 3	NNE	2	b	o	46	39		
CHRISTIANIA.																		
Christiansund	29.50	49	NNE	6	o	29.60	+ .10	45	41	- 2	NW	6	c	4	52	43	0.04	
Skudesnaes ...	29.51	44	NW	7	r	29.63	+ .09	50	45	+ 3	NW	7	bc	4	?	?	0.04	
Christiania Fjord (Færd)	29.28	50	WNW	3	c	29.41	+ .04	49	42	- 2	N	6	b	3	59	45	0.24	
Skagen (The Scaw)	29.32	47	WNW	7	o	29.36	- .06	47	46	- 3	N	5	o	4	55	43	0.04	
Fanø ...	29.62	42	NW	6	r	29.60	+ .01	48	44	0	WNW	8	c	*	54	39	0.20	
SCOTLAND.																		
Sumburgh Head	29.75	45	N	5	c	29.89	+ .22	44	41	+ 2	NNW	4	c	5	46	36	0.18	
Stornoway ...	30.05	41	NW	5	eskp	30.10	+ .14	47	46	+ 8	NW	4	o	4	47	35	0.05	
Wick ...	29.90	40	N	5	c	30.00	+ .18	48	42	+ 3	N	5	c	4	50	36	0.13	
Nairn ...	29.99	43	WNW	5	o	30.07	+ .17	44	43	0	NW	3	c	2	49	39	0.06	
Aberdeen ...	29.91	47	NW	6	bc	30.05	+ .22	43	40	- 1	WNW	4	bc	4	51	38	0.10	
ENGLAND.																		
Leith ...	29.98	49	N	2	bc	30.10	+ .21	51	43	+ 3	WNW	1	b	*	57	37		
Shields ...	29.96	48	NW	2	cp	30.09	+ .24	46	42	0	NW	2	c	3	51	34	0.05	
Spurn Head ...	29.98	47	NNE	2	o	30.09	+ .25	48	42	- 1	NNW	5	b	4	51	42	0.02	
York ...	29.97	53	N	2	bc	30.09	+ .24	47	41	- 3	N	2	b	*	56	37	0.06	
Loughborough	30.05	53	WNW	5	bc	30.15	+ .25	50	44	- 5	WNW	3	c	*	59	37		
IRELAND.																		
Ardrossan ...	30.06	49	WNW	5	b	30.13	+ .19	49	43	+ 2	WNW	4	b	3	59	35		
Malin Head ...	30.13	46	NW	4	bc	30.17	+ .13	48	46	+ 2	NW	2	o	2	48	43	0.04	
Mullaghmore ...	30.20	50	NNW	5	bc	30.23	+ .15	51	45	+ 1	WNW	2	bc	2	52	43	0.08	
Belmullet ...	30.24	51	NE	2	b	30.23	+ .10	51	46	+ 1	ENE	1	b	*	52	38		
Donaghadee ...	30.14	50	NNE	5	bc	30.20	+ .18	49	47	- 1	NW	3	c	2	53	46	0.01	
WALLES.																		
Liverpool (Bidston)	30.08	50	WNW	6	b	30.17	+ .23	49	43	- 1	NW	3	c	4	53	44	0.02	
Holyhead ...	30.13	48	N	5	b	30.20	+ .20	52	46	0	NNW	3	c	3	54	45		
Parsonstown ...	30.18	54	NW	1	b	30.26	+ .17	50	47	- 2	Z	0	b	*	58	32		
Valencia ...	30.20	55	N	1	o	30.19	+ .06	51	51	- 3	BSR	1	rm	1	59	48	0.26	
Roche's Point...	30.15	60	N	3	bc	30.21	+ .12	53	50	- 2	SE	3	c	3	61	50	0.01	
SCOTLAND.																		
Pembroke (St. Ann's Hd.)	30.15	52	N	3	bc	30.23	+ .18	51	47	- 1	NW	1	bc	0	56	43		
Scilly ...	30.13	55	NNW	3	o	30.16	+ .04	53	53	- 2	SSE	2	b	3	56	50	0.09	
Prawle Point ...	30.12	57	NW	2	bc	30.23	+ .16	47	44	- 9	NNE	2	o	1	61	45		
Jersey (St. Aubin's)	30.14	56	W	5	o	30.22	+ .07	54	49	0	NNE	3	cm	3	59	49	0.02	
Hurst Castle ...	30.06	60	NNW	5	bc	30.22	+ .22	52	47	- 5	N	3	b	2	65	40		
ENGLAND.																		
Dungeness ...	29.97	62	NW	4	c	30.14	+ .24	49	43	- 7	NNW	4	bc	2	62	36	0.04	
London ...	30.03	49	WNW	5	b	30.16	+ .23	50	48	- 2	NW	1	b	*	63	40	0.02	
Oxford ...	30.10	49	NW	3	b	30.19	+ .23	47	42	- 5	NW	4	c	*	61	36		
Cambridge ...	30.02	55	NW	3	b	30.15	+ .24	49	43	- 6	NW	2	b	*	64	38		
Yarmouth ...	29.96	50	NNW	3	c	30.07	+ .24	48	45	- 6	NW	4	b	3	58	38	0.01	
SCOTLAND.																		
Cuxhaven ...	29.74	49	WNW	7	r	29.78	+ .05	48	45	- 2	WNW	8	bc	*	54	46	0.40	
Berlin ...	29.75	55	W	3	o	29.86	+ .05	49	44	- 7	WNW	7	c	*	59	43	0.24	
Wiesbaden ...	*	*	*	*	*	30.09	+ .10	51	46	- 8	NW	3	bc	*	64	48	0.04	
Munich ...	30.06	59	SW	5	c	30.11	- .05	48	47	- 7	NW	5	o	*	64	46	0.12	
The Helder ...	29.92	49	NW	4	c	30.02	+ .33	48	44	- 5	NW	4	bc	4	54	46	0.04	
FRANCE AND BELGIUM.																		
Brussels (9 a.m.)	*	*	*	*	*	30.11	+ .18	49	45	- 4	NNW	1	c	*	58	45	0.20	
Cape Gris Nez	?	53	E	4	c	?	?	47	43	- 6	N	4	b	3	55	43		
Paris ...	30.10	60	WSW	3	o	30.16	+ .03	51	47	- 2	NNW	2	bc	*	?	?		
Brest ...	30.09	58	WNW	2	o	30.19	- .01	53	52	- 3	Z	0	o	1	?	46	0.08	
Lorient ...	30.23	58	WNW	5	o	30.22	- .02	53	51	- 2	NNE	1	c	3	59	52		
SPAIN.																		
Rochefort ...	30.25	55	WNW	5	bc	30.19	- .06	59	58	+ 2	WNW	3	o	?	64	52		
Belfort ...	30.19	61	SW	1	o	30.07	- .10	55	47	0	NW	2	r	*	69	50		
Lyons ...	30.14	64	N	2	b	30.15	- .08	57	51	0	NNW	3	b	*	69	49		
Nice ...	30.12	58	WSW	4	c	30.04	- .08	58	56	- 1	ENE	2	m	1	66	52		
Perpignan ...	30.17	70	NW	2	b	30.15	- .11	64	56	+ 3	W	2	b	*	73	51		
Biarritz ...	30.25	62	N	3	b	30.24	- .06	57	55	- 1	SSE	3	c	1	68	52		
PORTUGAL.																		
Corunna ...	*	*	*	*	*	30.21	+ .03	61	56	- 1	NNW	3	b	3	79	59		
Lisbon ...	30.17	68	NNW	5	b													

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

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

WEATHER CHARTS

for 8 a.m. on

Saturday, 31st May,

1890.

BAROMETER, WIND AND SEA.

EXPLANATION OF MAP.

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

Changes since previous morning are stated in words.

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

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

→ = forces 5 to 7; → = forces 1 to 4.

⊙ = dead calm.

SEA DISTURBANCE—Where considerable, is shown thus:

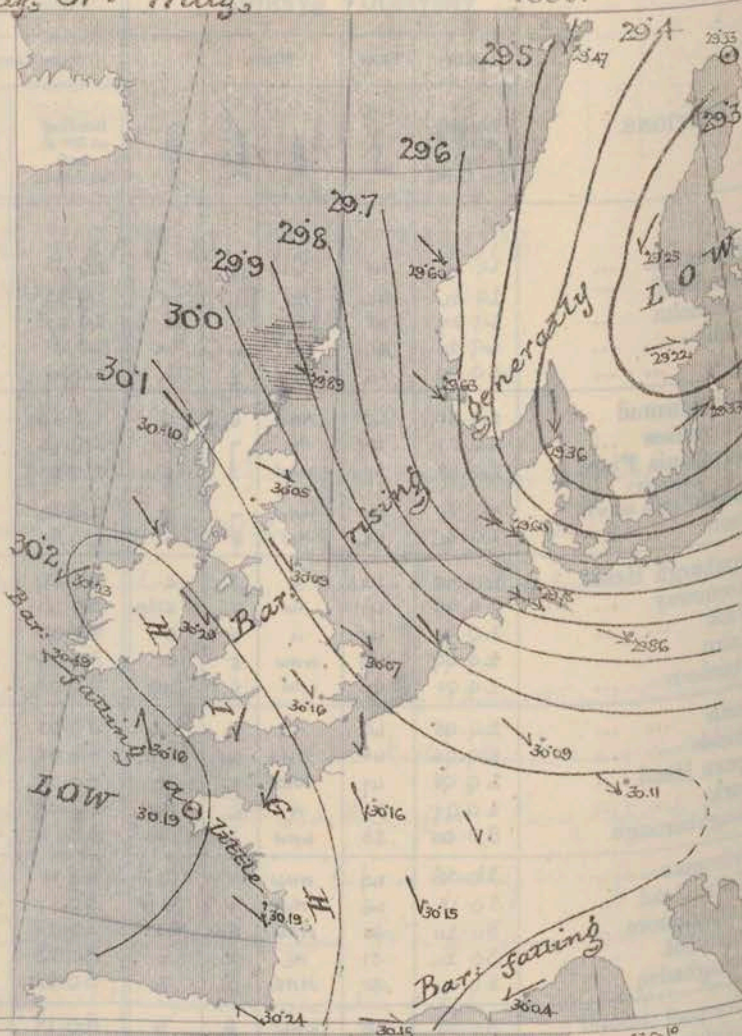
▨ = Rough. ▨ = High.

MEAN HEIGHT OF THE BAROMETER

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

During the 15 Years: 1871—1885.

STATIONS.	MEAN READINGS.
Sumburgh Head	29.878
Stornoway	29.893
Wick	29.906
Nairn	29.918
Aberdeen	29.922
Leith	29.942
Shields	29.955
York	29.974
Loughborough	29.984
Ardrossan	29.949
Donaghadee	29.959
Holyhead	29.971
Liverpool	29.974
Parsonstown	29.976
Valencia	29.984
Roche's Point	29.979
Pembroke	29.977
Silly	29.997
Jersey	30.002
Hurst Castle	29.994
Dover	29.985
LONDON	29.995
Oxford	29.993
Cambridge	29.989
Yarmouth	29.980



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.

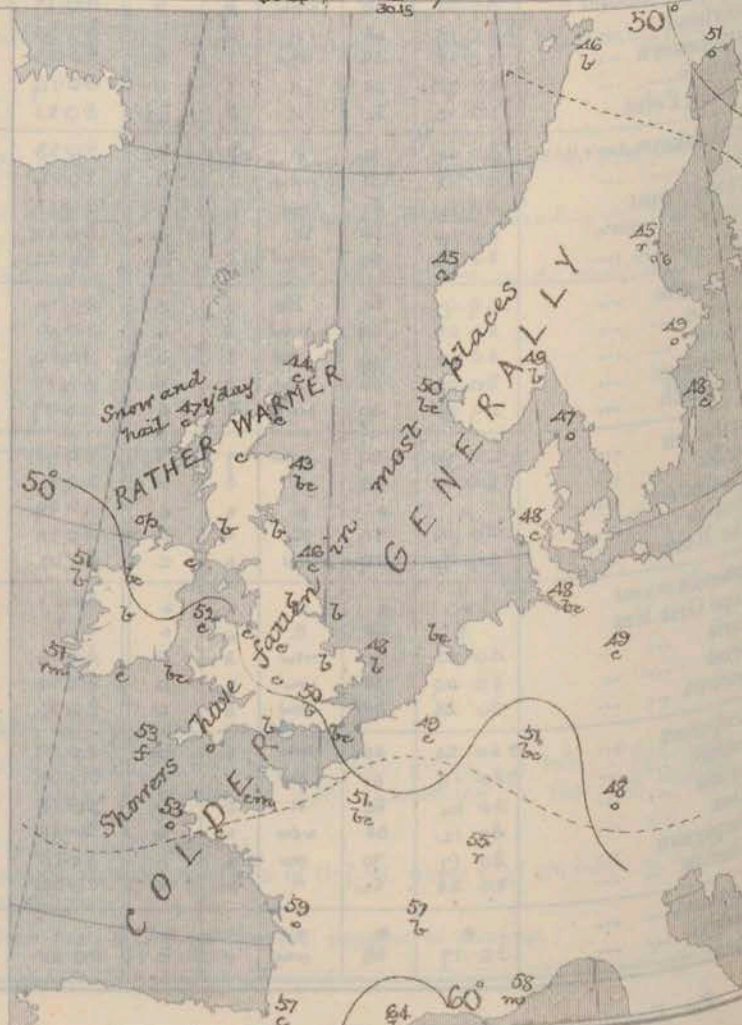
RAINFALL—A dotted line separates the districts in which rain has fallen from those where there has been none. Falls of 0.5 in. or more are quoted in figures.

MEANS OF TEMPERATURE IN SHADE, AND RAINFALL.

(For the month of May.)

STATIONS.	TEMPERATURE.				RAINFALL (Inches.)
	Daily Max.	Daily Min.	at 8 a.m. Dry.	Wet.	
Sumburgh Head	50.2	39.9	45.9	43.9	1.71
Stornoway	52.9	40.7	48.4	46.0	2.04
Wick	53.7	40.4	47.9	45.2	1.62
Nairn	55.9	42.0	48.4	45.0	1.67
Aberdeen	55.0	41.7	48.9	45.3	1.90
Leith	57.8	42.2	50.1	46.7	1.65
Shields	54.2	43.1	49.1	45.9	1.75
York	59.3	41.6	49.6	46.4	1.71
Loughborough	61.6	42.2	51.2	47.6	1.96
Ardrossan	56.2	43.7	49.3	46.4	2.20
Donaghadee	55.9	43.6	49.5	47.3	2.15
Holyhead	56.0	46.1	50.3	47.8	1.88
Liverpool	57.5	44.7	50.6	46.8	1.74
Parsonstown	59.3	42.3	51.0	47.7	2.23
Valencia	58.1	45.9	52.8	49.5	2.89
Roche's Point	59.6	46.0	51.7	48.7	3.05
Pembroke	55.1	46.0	49.9	47.4	1.97
Silly	56.3	45.2	52.7	50.3	1.66
Jersey	59.3	47.1	53.5	50.4	1.74
Hurst Castle	58.3	45.3	51.2	49.7	1.70
Dover	56.8	46.8	52.8	49.2	1.77
LONDON	62.1	44.1	52.4	48.4	1.73
Oxford	60.6	43.9	50.6	47.4	1.83
Cambridge	61.7	41.8	51.3	48.1	1.76
Yarmouth	55.4	44.8	50.5	48.0	1.85

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



GENERAL SITUATION AT 8 A.M.

PRESSURE

Highest, 30.7, in: and upwards in a long arm or ridge extending northward from Spain across the west of France, and northward across the North Sea, Denmark and North Germany, but moderate or slight elsewhere.
 Lowest, 29.3 in: and less, in a depression lying over the Gulf of Bothnia and Finland.
 Gradients rather steep over the North Sea, Denmark and North Germany, but moderate or slight elsewhere.
 Barometer rising generally, but falling in the south of Ireland and the west of France.

TEMPERATURE

Highest, 64° at Perpignan, 61° at Lisbon, 55° at Rochefort, 58° at Nice, and 57° at Lyons and Biarritz.
 Lowest, 43° at Aberdeen, 44° at Lumburg Head and Vain, 45° at Hermand and Christiansund, and 46° at Bodo and Shields.
 The maxima registered over our islands yesterday were above 60° in the extreme south, but below 50° in the extreme north and northwest.

WIND

Strong from the NWrd on the eastern shores of the North Sea, with a gale at Paris and Copenhagen, and moderate from the same quarter in most other parts of Western Europe.
 Light from the SErd in the extreme southwest of our islands and also at Biarritz; NE over the northern part of Scandinavia.

WEATHER

Fair generally, but dull on our extreme southwest coast, with rain at Valencia Island, and fog at Bally. A calm halo is visible at Jersey.
 Dull weather is also reported in Sweden, with rain at Hermand.
 Showers fell yesterday in most districts, in the north of Scotland the rain was mingled with snow and hail.

SEA

Rough rough at Lumburg Head, but moderate to smooth elsewhere.

PROBABLE CHANGES IN SYSTEM NOW PREVALENT

A new depression is apparently advancing towards our southwest coasts, and the wind is therefore likely to shift to the Srd or SErd at all our more southern stations, with a renewal of unsettled weather.

FORECASTS

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

DISTRICTS.	FORECASTS.	DISTRICTS.	FORECASTS.
0 SCOTLAND NORTH	NW rd winds, falling light and backing; fair generally	6 SCOTLAND WEST	Same as N° 0 and 1.
1 SCOTLAND EAST		7 ENGLAND N.W.	Wind shifting to the SE rd or E rd ; fair to dull and some rain.
2 ENGLAND N.E.		8 ENGLAND S.W.	SE rd winds, light to fresh; cloudy, some rain.
3 ENGLAND EAST	Same as N° 5.	9 IRELAND NORTH	Same as N° 7.
4 MIDLAND COUNTIES		10 IRELAND SOUTH	Same as N° 8.
5 ENGLAND SOUTH	Wind backing to the S rd or SE rd ; fine to cloudy and some rain.	WARNINGS NONE ISSUED.	

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

YESTERDAY'S 2 P.M. REPORTS.

	BAR:	THER:		WIND		WEA.	SEA		BAR:	THER:		WIND		WEA.	SEA
		D.	W.	D.	F.					D.	W.	D.	F.		
Skudesnaes ...	29.54	48	43	NW	7	c	4	Holyhead ...	30.10	52	47	N	4	bc	4
Sumburgh Head ...	29.71	41	40	N	4	r	4	Valencia ...	30.20	58	54	NW	3	om	3
Stornoway ...	30.01	45	44	NW	5	c	5	Scilly ...	30.13	55	55	W	5	t	4
Aberdeen ...	29.86	50	41	NW	7	bcy	5	Jersey ...	30.14	59	56	W	5	c	4
Shields ...	29.92	46	43	NW	2	o	3	Dungeness ...	29.46	56	54	W	5	cp	4
Ardrossan ...	30.02	57	50	NW	5	b	4	London ...	29.98	62	54	NW	3	c	3
Malin Head ...	30.12	48	41	NW	6	b	3	Yarmouth ...	29.90	54	51	NW	4	bcy	3
Mullaghmore ...	30.20	50	44	NW	5	bcy	4	Rochefort ...	30.29	62	56	NW	4	b	?
Belmullet ...	30.23	51	44	NW	2	bc	*								

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

Weather fine and bright in Portugal, the south of Spain, south of France, as well as in Austria, and south and east Germany, cloudy, more or less, elsewhere, with rain in many localities, both in the British Isles and on the Continent. Rain during some part of the day over all the northwestern and western parts of Europe, but amounts small except at Shields and Harbours.

Temperature low in most places. Morning readings exceeding 70° at Brindisi only, above 60° on all shores of the Mediterranean and Adriatic, lower elsewhere; below 50° in the north and northeast of the British Isles and over Scandinavia, and as low as 39° at Helsingfors, 42° at Leningrad, 43° at Riga, 44° at Stockholm and Aberdeen, and 46° at Malin Head, Shields, Harbours and Harbours. Rising to a little above 60° in several parts of our Islands later, to 69° at Lyons, 73° at Perpignan, 79° at Harbours. Falling fast over Great Britain towards night.

Wind N^W, moderate to strong over our Islands, W^W over the Netherlands and Western Germany, SW^W to S^W over the Baltic, very variable elsewhere, anticyclonic over the Bay of Biscay and Spain. Becoming more W^W over the Bay of Biscay later, and increasing to a moderate gale from NW at Aberdeen and Skudesnaes; freshening in London also.

Barometer highest 30.1 ins. to 30.3 ins. in a high pressure system covering Spain, France, the west of Ireland and adjacent parts of the Atlantic, exceeding 30.1 ins. over Switzerland, Italy and southeast of France. Lowest, 29.4 ins. and less, in central part of a large shallow depression lying over Scandinavia, 30.0 ins. and less, over Morocco. Shallow disturbances, secondary to the Scandinavian depression moving southwards over our Islands. No important change later.

EXPLANATION OF COLUMNS GIVEN ON PAGE 1.

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

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

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

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

ADDITIONS AND CORRECTIONS TO THE

1. REPORTS RECEIVED TOO LATE FOR INSERTION DAILY.

DATE.	STATIONS.	YESTERDAY EVENING.						8 A.M. TO-DAY.										PAST 24 HOURS.		
		Barometer at 32° F. and Sea Level.	Temp. in Shade.	WIND.		Weather.	BAROMETER.		SHADE TEMP.			WIND.		Weather.	Sea (0 to 9.)	SHADE TEMP.		Amount of Rainfall.		
				Direc.	Force (0 to 12.)		Reading at 32° F. and Sea Level.	Difference from 8 a.m. yesterday.	Dry.	Wet.	Difference from 8 a.m. yesterday.	Direc.	Force (0 to 12.)			Max.	Min.			
1	Brussels.....	*	*	*	*	*	29.91	-11	49	-	-2	ENE	3	bc	*	66	42			
-	Corunna.....	*	*	*	*	*	29.76	-26	56	52	0	SW	5	bc	3	61	48	0.39		
2	Corunna.....	*	*	*	*	*	30.02	+26	59	55	+3	N	1	c	4	59	50	0.12		
3	Corunna.....	*	*	*	*	*	29.83	-19	57	52	-2	S	4	0	5	61	50	-		
5	Corunna.....	*	*	*	*	*	29.54	-15	59	53	+3	SSW	5	c	5	59	48	0.08		
6	Corunna.....	*	*	*	*	*	29.65	-11	55	53	-4	S	4	0	4	59	45	0.16		
7	Corunna.....	*	*	*	*	*	29.59	-06	57	53	+2	SSW	3	r	3	61	50	0.16		
8	Corunna.....	*	*	*	*	*	29.35	-24	58	53	+1	ESE	3	0	2	63	48	0.20		
9	Corunna.....	*	*	*	*	*	29.45	+10	55	52	-3	S	2	0	3	?	?	0.71		
12	Corunna.....	*	*	*	*	*	29.82	+19	57	53	+1	NNW	5	bc	5	61	52	-		
13	Haparanda...	30.08	39	Z	0	b	30.10	-11	44	43	+3	SSE	2	b	*	52	28	-		
-	Corunna.....	*	*	*	*	*	30.03	+21	61	57	+4	NNW	4	bc	4	?	?	-		
14	Brussels.....	*	*	*	*	*	29.83	+45	52	-	+2	WSW	3	0	*	-	-	0.04		
-	Corunna.....	*	*	*	*	*	30.16	+13	63	57	+2	N	3	0	5	64	54	-		
15	Corunna.....	*	*	*	*	*	30.15	-01	63	59	0	NW	1	b	1	66	52	-		
16	Corunna.....	*	*	*	*	*	29.81	-34	59	57	-4	ENE	3	0	5	70	52	-		
17	Corunna.....	*	*	*	*	*	29.89	+08	60	53	+1	N	4	0	4	61	46	0.16		
19	Corunna.....	*	*	*	*	*	29.76	+01	51	50	-6	WSW	4	r	5	61	36	0.28		
20	Corunna.....	*	*	*	*	*	29.96	+20	59	56	+8	WSW	3	b	4	59	46	0.12		
21	Cape Gris Nez	?	62	SW	5	0	?	?	54	-	+1	N	3	b	2	66	52	0.59		
-	Corunna.....	*	*	*	*	*	29.99	+03	63	57	+4	SSE	3	0	4	66	54	-		
22	Corunna.....	*	*	*	*	*	30.04	+05	64	62	+1	S	1	bc	4	72	54	-		
23	Corunna.....	*	*	*	*	*	29.88	-16	66	62	+2	NNW	1	f	4	72	54	-		
24	Brussels.....	*	*	*	*	*	30.05	-14	64	-	+8	ENE	3	b	*	75	53	-		
26	Haparanda...	30.16	40	NE	4	c	30.28	+20	47	34	-2	NE	6	0	*	?	36	-		
-	Hernösand...	30.04	41	NNE	8	b	30.09	-10	41	36	-10	NE	9	bc	*	64	39	-		
-	Corunna.....	*	*	*	*	*	29.93	-04	58	56	-6	SE	1	r	2	?	56	0.08		
27	Corunna.....	*	*	*	*	*	29.68	-25	60	57	+2	SSW	5	bc	4	68	52	0.71		
28	Corunna.....	*	*	*	*	*	30.13	+45	56	55	-4	N	5	r	6	63	52	0.08		
29	Corunna.....	*	*	*	*	*	30.27	+14	59	55	+3	NNE	1	b	4	63	48			

2. CORRECTIONS.

[illegible]