

METEOROLOGICAL OFFICE,
✓
LONDON.

DAILY WEATHER REPORTS.

1ST JANUARY—30TH JUNE,
1889.

Sec. Reg. Lond.

9/12/89

January to June 1889.

January to June 1889.



DAILY WEATHER REPORT.

for Wednesday 1st May. 1889.
 Issued by the Meteorological Office, 63 Victoria Street, London. R. H. SCOTT, Secretary.

STATIONS.	† YESTERDAY EVENING.					8 A.M. TO DAY.										PAST 24 HOURS.		
	Barometer at 32° F. and Sea Level.	Temp. in Shade.	WIND.		Weather.	BAROMETER.		SHADE TEMP.			WIND.		Weather.	Sea. (0 to 9.)	SHADE TEMP.		Amount of Rainfall.	
			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 ..	30.28	39	2	0	C	30.25	-0.07	42	40	+2	NE	2	0	*	52	25	—	
Hernösand ...	30.35	39	2	0	C	30.34	0.0	42	39	+1	2	0	C	*	61	27	—	
Stockholm ...	30.26	44	2	0	C	30.28	+0.07	48	41	+2	N	2	C	*	63	34	—	
Wisby ...	30.20	41	E	4	C	30.19	+0.01	49	42	+9	NNE	4	C	*	58	32	—	
Bodö ...	30.28	45	ENE	2	C	30.30	+0.04	46	40	-2	ENE	2	C	1	52	36	—	
Christiansund...	30.19	50	NE	2	C	30.12	-0.06	50	46	+1	E	3	C	1	53	41	—	
Skudesnaes ...	30.09	50	E	2	0	30.02	-0.08	53	45	+4	ESE	5	C	2	59	43	—	
Christiania Fjord (Færder)	30.16	50	E	2	C	30.21	+0.02	46	42	0	NE	2	C	1	54	45	—	
Skagen (The Scaw)	30.10	49	ESE	2	C	30.13	0.0	48	43	+1	ESE	3	C	2	63	48	—	
Fanö ...	29.89	50	ESE	6	C	29.91	-0.05	51	47	+4	ESE	6	C	*	63	46	—	
BRITISH ISLANDS.																		
Sumburgh Head	30.02	44	NE	3	0	29.81	-2.4	50	45	+8	E	6	C	6	50	40	—	
Stornoway ...	29.80	49	E	6	bc	29.49	-3.4	48	48	-1	ESE	6	0	5	56	44	0.02	
Wick ...	29.87	45	ESE	4	0	29.60	-3.6	45	44	-2	ESE	3	2	7	52	43	0.30	
Nairn ...	29.80	47	ESE	4	0	29.52	-3.5	48	47	0	ENE	1	C	2	56	43	0.05	
Aberdeen...	29.77	43	NE	7	ogw	29.61	-3.6	44	44	+2	ESE	5	ogw	6	49	42	0.33	
Leith ...	29.64	45	ENE	3	2	29.54	-3.2	47	46	-2	ESE	1	cm	*	53	42	0.45	
Shields ...	29.58	44	E	2	od	29.60	-2.3	49	46	+5	S	2	C	4	49	42	0.41	
Spurn Head ...	29.52	47	ESE	6	2	29.68	-0.4	50	47	+4	S	5	C	4	50	44	0.02	
York ...	29.53	49	E	1	0	29.60	-1.4	47	45	-2	ESE	2	C	*	52	43	0.08	
Loughborough	29.49	56	S	4	2	29.63	-0.4	49	46	0	S	3	C	*	56	41	0.24	
GERMANY.																		
Ardsrossan ...	29.59	46	ENE	5	of	29.50	-2.6	48	47	-1	E	3	cm	2	52	44	0.13	
Malin Head ...	29.58	46	E	6	0	29.44	-2.0	46	46	0	S	3	cm	1	51	45	0.03	
Mullaghmore...	29.50	47	ENE	6	0.2	29.44	-1.0	48	46	0	E	2	0	2	54	45	0.05	
Belmullet ...	29.49	47	E	1	0	29.44	-0.6	47	46	+1	ESE	1	0	*	51	45	0.05	
Donaghadee ...	29.53	49	ESE	6	0	29.50	-1.8	48	47	+1	ESE	4	C	3	52	42	0.09	
FRANCE & NETHERLANDS.																		
Barrow-in-Furness	29.49	50	E	4	0	29.52	-1.9	45	44	-1	ESE	5	2	*	54	44	0.03	
Liverpool (Bidston)	29.45	50	ENE	5	0	29.56	-0.8	44	42	-6	ESE	3	0	3	53	42	0.25	
Holyhead ...	29.45	49	ENE	6	2mgw	29.50	-0.9	48	46	-2	S	4	cm	4	50	43	0.13	
Personstown ...	29.40	46	2	0	2	29.44	-0.4	47	46	-2	2	0	2	*	54	40	0.10	
Valencia ...	29.28	52	E	4	0	29.42	+1.7	51	49	0	NNE	2	cm	2	52	44	0.04	
Roche's Point...	29.29	50	ESE	5	bc	29.39	+0.7	49	46	0	ESE	4	C	4	51	45	0.50	
Pembroke ...	29.36	49	ESE	4	bc	29.47	+0.4	49	47	+1	ESE	5	C	5	54	44	0.02	
Scilly ...	29.22	50	SPW	6	Cf	29.32	+0.3	47	46	-1	ESE	6	cm	6	53	44	0.20	
Prawle Point ...	29.42	48	ESE	5	0	29.54	+1.1	49	45	0	ESE	7	bc	5	58	40	0.04	
Jersey ...	29.53	54	S	5	C	29.64	+1.4	50	47	0	ESE	7	cm	5	57	46	0.08	
SPAIN.																		
Hurst Castle ...	29.52	52	ESE	4	bc	29.65	+1.1	50	48	-1	S	5	bc	3	56	46	0.14	
Dungeness ...	29.54	49	WSPW	4	2	29.73	+0.7	48	46	0	SPW	4	0	3	53	48	0.06	
London ...	29.54	52	S	1	0	29.70	+1.1	51	46	+1	S	2	C	*	61	45	0.16	
Oxford ...	29.54	49	ESE	2	0	29.66	+0.7	50	46	+1	S	2	C	*	58	44	0.11	
Cambridge ...	29.54	50	S	1	2	29.72	+0.9	51	48	-1	S	2	bc	*	60	41	0.16	
Yarmouth ...	29.57	48	ESE	3	cm	29.75	+0.8	48	46	+1	S	4	C	4	49	44	0.08	
Cuxhaven ...	29.81	55	ESE	5	0	29.87	-0.5	52	50	+1	S	2	bc	*	57	51	—	
Berlin ...	29.92	62	ESE	4	bc	29.95	-0.1	58	51	+1	ESE	4	C	*	70	52	—	
Wiesbaden ...	*	*	*	*	*	29.96	+1.7	51	48	-8	W	1	C	*	68	43	—	
Munich ...	29.79	60	W	2	0	30.02	+1.9	53	49	0	E	1	C	*	68	48	0.24	
PORTUGAL.																		
The Helder ...	29.65	54	ESE	1	2	29.85	+1.1	50	48	-2	S	2	bc	2	63	48	0.51	
Brussels ...	29.91	*	*	*	*	29.91	+2.2	54	47	-1	ESE	1	C	*	60	45	0.04	
Cape Gris N. ...	?	48	SPW	3	0	?	?	48	44	-4	SPW	3	C	3	62	43	0.08	
Paris ...	29.70	52	S	2	C	29.82	+1.6	44	43	-8	NNE	1	0	*	66	40	0.35	
Brest ...	29.52	48	SPW	8	2	29.56	?	51	46	+2	SPW	7	C	8	53	43	0.95	
Lorient ...	29.54	50	SPW	7	C	29.57	+1.0	49	45	-1	SPW	6	C	7	54	45	0.04	
Rocheport ...	29.79	54	WSPW	6	bc	29.78	+1.5	46	44	-8	ESE	4	2	2	61	46	0.12	
Belfort ...	29.80	51	NE	2	0	29.88	-0.3	53	49	+7	E	3	C	*	61	36	0.20	
Lyons ...	29.86	50	ESE	1	C	29.85	+0.7	50	48	0	ESE	1	2	*	66	46	—	
Nice ...	29.94	54	ESE	3	C	30.02	+1.3	56	54	+6	NNE	3	2	2	61	46	0.67	
Perpignan ...	29.81	61	NE	2	C	29.73	+0.1	60	54	+2	S	3	0	5	68	51	—	
Biarritz ...	29.79	54	NNE	4	0	29.71	-0.1	50	49	-4	2	0	2	5	63	46	0.28	
ITALY.																		
Corunna ...	*	*	*	*	*	29.81	+0.7	53	49	+1	SPW	6	2	4	57	43	—	
Lisbon ...	29.80	57	SPW	6	2	29.96	+0.4	52	47	-4	N	4	C	3	59	48	0.59	

For Explanation of Columns, see p. 2.

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

WEATHER CHARTS

for 8 a.m. on

Wednesday, 1st May,

1889.

BAROMETER, WIND & SEA.

(Explanation of Map)

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

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

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

Sea Disturbance — where considerable, is shown thus.

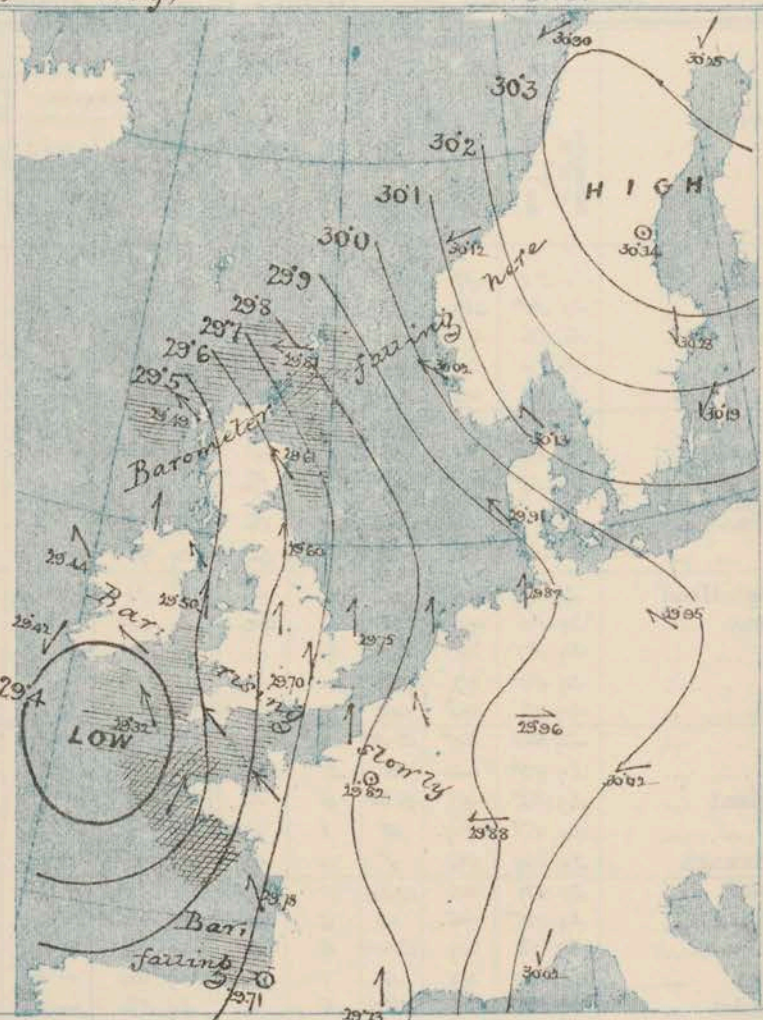
— = Rough, — = High.

MEAN HEIGHT of the BAROMETER

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

During the 15 Years 1871—1885.

STATIONS.	MEAN READINGS.
Sumburgh Head	29.878
Stornoway	29.898
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	29.978
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	1.66
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	56.1	46.0	49.9	47.4	1.97
Scilly	56.3	48.2	52.7	50.8	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 29 years 1866—85



GENERAL SITUATION AT 8 A.M.

PRESSURE

Highest, 30.5 ins: and upwards, over the central parts of Scandinavia.
 Lowest, 29.4 ins: and less, in a depression lying off our extreme southwest coasts.
 Gradients rather steep over the north of Scotland and the mouth of the Channel, but moderate or slight elsewhere.
 Barometer rising over Ireland, England, the Netherlands, Germany the east of France, but falling elsewhere.

TEMPERATURE

Highest, 60° at Perpignan, 58° at Paris, 56° at Aix, 54° at Brussels, 53° at Edinburgh, Munich and Belfast, and 52° at Copenhagen and Lubeck.
 Lowest, 42° at Naparanda and Henneford, 44° at Aberdeen and Liverpool, 45° at Wick and Banow in Limerick, and 46° at Porto and Horta Head.
 The highest maxima registered over our Islands yesterday were 61° in London, and 60° at Cambridge; at Berlin, however, the thermometer rose to 70°.

WIND

Chiefly SE or S; strong to a gale in force on our southwestern and extreme northern coasts, but moderate or fresh elsewhere.
 Over Scandinavia, however, the wind is light from the NE, while at Lisbon a moderate N. breeze is reported.

WEATHER

Fine in Scandinavia, Denmark, the Netherlands, Germany, and the east and south of England.
 Cloudy or overcast elsewhere with rain in many places.
 Since yesterday morning 0.5 in: of rain has fallen at Leith, Rockin Point, and Hilder, 0.2 in: at Linton, 0.7 in: at Newcastle, and 1.0 in: at Port. Thunder and lightning have occurred in some parts of England and France.

SEA

High off the northwest of France and also at Wick, and rough at most of our southwestern, western, and northern stations, but moderate to smooth elsewhere.

PROBABLE CHANGES IN SYSTEM NOW PREVALENT

The depression off our southwest coasts is filling up, but a new fall of the barometer is reported in the southwest of France and further small disturbances are apparently advancing over our Islands from the S.W. Changeable showery weather is therefore likely to continue generally, with thunder at some of the English stations.

FORECASTS

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

DISTRICTS.		FORECASTS.		
0	SCOTLAND NORTH	E ^{ly} and SE ^{ly} strong winds or gales; changeable, some showers.	6 SCOTLAND WEST	SE ^{ly} winds, fresh or strong; changeable, some rain.
1	SCOTLAND EAST			
2	ENGLAND N. E.	S ^{ly} and SE ^{ly} winds freshening; changeable; some rain, possibly thunder.	8 ENGLAND S. W.	SE ^{ly} and S ^{ly} strong winds or gales; unsettled, rain at times.
3	ENGLAND EAST		9 IRELAND NORTH	E ^{ly} and SE ^{ly} winds, freshening; unsettled, some rain.
4	MIDLAND COUNTIES		10 IRELAND SOUTH	
5	ENGLAND SOUTH		WARNINGS	
The <u>NORTH CONE</u> is still ^{flying} in districts 0.1. and part of 2, and the <u>SOUTH CONE</u> in districts 3.5.8 to 10, part of 7 and the remainder				

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

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

YESTERDAY'S 2 P.M. REPORTS.

	Bar.	Dry.	Wet.	Wind.	Wea.	Sea.		Bar.	Dry.	Wet.	Wind.	Wea.	Sea.
Skudesnaes ...	30.10	52	53	ESE 4	c	2	Holyhead ...	29.50	49	48	EG	rmg	5
Sambargh Head ...	30.06	42	41	ESE 3	o	4	Valencia ...	29.26	51	48	ESE 5	o	5
Stornoway ...	29.83	53	51	SE 6	o	5	Scilly ...	29.23	50	47	SE 7	cq	6
Aberdeen ...	29.91	42	42	NE 5	029	5	Jersey ...	29.50	54	49	S 4	bc	4
Shields ...	29.69	45	45	NE 2	2	2	Dungeness ...	29.54	53	51	S 4	c	2
Ardrossan ...	29.62	48	47	ESE 6	om	2	London ...	29.50	53	53	E 3	o	4
Malin Head ...	29.61	50	46	E 5	o	2	Yarmouth ...	29.59	49	48	E 3	c	4
Mallaghmore ...	29.53	49	46	E 6	2	4	Rocheport ...	29.50	56	49	WNW 6	c	3
Balmuliet ...	29.48	49	46	E 6	o	*							

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

The reports of yesterday morning showed that pressure varied from 30.0 ins: and more over Algeria, the south of Spain, and the south of Italy, and from 30.3 ins: and more both over the north of Sweden and Central Russia, ^{to rather below 29.9 ins: over Southern Russia} and to 29.3 ins: and less, off the southwest coast of the British Isles. Thus, while E³ and SE² winds of considerable strength prevailed over the British Isles and lighter winds from the same quarter over the North Sea and Norway, those over the Bay of Biscay and Spanish Peninsula were SW², and those in France S². Over Germany, and southern and Eastern Europe the wind was light and variable. The weather was in a very changeable showery condition — clear sky being reported in many places, a great deal of cloud in others, and rain at various stations in all parts of Europe. Temperature varied from between 38° and 44° over Finland and the north of Russia, and from between 45° and 51° over the greater part of the United Kingdom to between 50° and 55° over the greater part of France, Germany, and the south of Russia and to 60° and more at some of the Mediterranean stations. The highest morning values were 66° at Sfax (Tunis) 64° at Algiers, 62° at Barcelona, 61° at Rhindiri, 59° at San Fernando and Wiesbaden, 58° at Ponguenais and Bilbao, 57° at Berlin, 56° at Kharkov and Münster, and 55° at Bessano. At Paris the temperature was 52°, in London 50°, and at Madrid 49°. The lowest were 36° at St Petersburg, 39° at Kuopio, 40° at Haparanda and Moscow, 41° at Hango and Helsingfors, and 42° at Lumburgh Head and Aberdeen.

During the day rain fell very generally over the British Isles and France, thunderstorms occurred on many parts of the Continent and in some places the rainfall was heavy.

[The newspapers report a heavy thunderstorm with large hail to have occurred at Paris yesterday 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).

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			Dir.	Force. (0 to 12.)			Dry.	Wet.	Difference from 8 a.m. yesterday.	Dir.	Force. (0 to 12.)			Max.	Min.				
Haparanda ..	30.35	38	W	0	bc	30.38	+0.04	41	37	-1	W	0	bc	*	55	28	—		
Hernösand ...	30.28	44	E	2	bc	30.30	+0.02	49	43	+1	E	2	bc	*	59	34	—		
Stockholm ...	30.21	41	E	4	bc	30.21	+0.02	50	44	+1	E	4	bc	*	57	32	—		
Wisby ...	30.27	49	NE	2	bc	30.31	+0.01	51	43	+5	NE	4	bc	2	57	37	—		
Bodö ...	30.06	56	ESE	1	bc	30.11	-0.01	52	48	+3	ESE	1	bc	1	61	45	—		
Christiansund...	30.04	53	E	6	o	30.01	-0.01	53	46	+2	ESE	6	c	4	59	48	—		
Skudesnaes ...	30.15	52	ENE	3	bc	30.21	0.00	46	42	0	NNE	3	bc	1	52	45	—		
Christiania Fjord (Fjorder)	30.10	52	E	1	bc	30.10	-0.03	49	45	+1	E	2	bc	1	62	45	—		
Skagen (The Scaw)	29.93	51	SE	5	c	29.92	+0.01	52	49	+1	ESE	4	bc	*	61	46	—		
Fanö ...	29.86	44	ESE	5	o	29.84	+0.02	44	42	-6	ESE	1	bc	4	51	42	0.08		
Sumburgh Head	29.53	49	S	5	o	29.64	+0.15	49	47	+1	SE	4	bc	4	54	44	0.25		
Stornoway ...	29.71	46	SE	6	o	29.72	+0.12	44	43	-1	W	0	bc	3	50	43	0.12		
Wick ...	29.66	52	E	4	bc	29.69	+0.16	46	45	-2	W	0	bc	1	59	43	—		
Nairn ...	29.77	45	SE	5	bc	29.71	+0.10	43	41	-1	W	1	bc	4	50	41	0.25		
Aberdeen...	29.70	49	SE	1	c	29.71	+0.17	50	45	+3	SE	1	bc	*	57	40	—		
Leith ...	29.73	46	E	3	o	29.73	+0.13	48	44	-4	S	2	c	3	52	41	0.03		
Shields ...	29.77	47	ESE	4	o	29.76	+0.08	46	45	-4	ESE	1	c	2	57	42	0.25		
Spurn Head ...	29.70	53	SE	3	bc	29.72	+0.12	47	45	0	S	1	bc	*	60	43	0.24		
York ...	29.71	52	SE	3	bc	29.76	+0.13	47	45	-2	ENE	2	bc	*	59	38	—		
Loughborough	29.63	50	ESE	3	bc	29.67	+0.17	50	47	+2	ENE	3	bc	2	52	41	—		
Ardrossan ...	29.51	46	S	3	bc	29.58	+0.14	47	46	+1	S	4	bc	1	51	42	0.12		
Malin Head ...	29.51	48	S	5	bc	29.58	+0.14	46	44	-2	SE	2	bc	2	52	45	0.12		
Mullaghmore ...	29.50	48	WNW	1	bc	29.54	+0.10	49	47	+2	S	5	bc	*	50	45	0.16		
Belmullet ...	29.62	49	SEW	4	bc	29.67	+0.17	49	47	+1	S	3	bc	1	54	44	0.03		
Donaghadee ...	29.66	50	E	3	bc	29.71	+0.19	46	45	+1	SE	2	bc	*	54	42	0.11		
Barrow-in-Furness	29.66	51	S	1	c	29.72	+0.16	47	44	+3	ESE	3	bc	3	57	40	0.04		
Liverpool (Bidston)	29.62	53	E	1	bc	29.68	+0.18	50	46	+2	SE	1	c	2	57	41	0.04		
Holyhead ...	29.51	53	W	0	o	29.59	+0.15	47	46	0	W	0	bc	*	58	43	0.06		
Parsonstown ...	29.57	51	NW	2	o	29.61	+0.19	52	49	+1	SEW	3	bc	3	53	40	0.04		
Valencia ...	29.56	49	SE	4	c	29.64	+0.25	50	46	+1	SEW	1	bc	4	52	46	0.02		
Roche's Point...	29.53	50	SE	5	bc	29.68	+0.21	48	47	-1	SE	4	bc	3	53	45	0.04		
Pembroke ...	29.47	49	NNE	2	bc	29.71	+0.39	50	48	+3	W	4	bc	5	53	45	0.12		
Scilly ...	29.57	48	SE	6	c	29.70	+0.16	54	52	+5	N	2	bc	2	57	44	0.10		
Prawle Point ...	29.62	49	SE	5	bc	29.70	+0.06	50	49	0	W	4	bc	4	56	48	0.12		
Jersey ...	29.68	48	ESE	5	bc	29.70	+0.05	50	49	0	S	3	c	3	54	46	0.04		
Hurst Castle ...	29.72	46	ESE	2	c	29.74	+0.01	48	47	0	SE	4	c	3	51	44	0.14		
Dungeness ...	29.73	51	ESE	2	o	29.73	+0.03	49	47	-2	SE	2	bc	*	54	41	—		
London ...	29.72	47	ESE	1	bc	29.73	+0.07	47	45	-3	ESE	1	bc	*	56	41	0.01		
Oxford ...	29.74	49	SE	1	o	29.76	+0.04	48	47	-3	E	1	bc	*	53	37	—		
Cambridge ...	29.78	47	ESE	1	bc	29.78	+0.03	45	44	-3	NNE	2	bc	3	49	42	0.27		
Yarmouth ...	29.93	54	N	1	bc	29.87	0.00	53	51	+1	ESE	2	c	*	56	51	—		
Carhaven ...	29.93	65	E	4	bc	29.93	-0.02	53	53	+1	ESE	2	bc	*	72	52	—		
Berlin ...	29.93	*	*	*	*	29.93	-0.03	53	51	+4	NW	1	bc	*	68	52	—		
Wiesbaden ...	29.86	58	NNE	2	bc	29.95	-0.07	54	50	+1	W	5	bc	*	64	43	—		
Munich ...	29.76	54	ENE	1	bc	29.86	+0.01	50	49	0	SEW	2	c	2	57	50	—		
The Helder ...	29.88	*	*	*	*	29.88	-0.03	52	49	-2	S	3	o	*	59	48	0.04		
Brussels ...	29.78	46	NE	3	o	29.87	+0.05	49	46	0	S	4	o	3	52	45	0.08		
Cape Gris Nez...	29.54	51	W	5	o	29.85	+0.29	50	48	-1	NW	4	o	5	54	43	0.28		
Paris ...	29.56	51	SEW	7	c	29.82	+0.25	50	48	+1	WNW	6	bc	7	53	48	0.16		
Brest ...	29.79	52	SEW	6	bc	29.97	+0.19	54	51	+8	W	6	bc	3	59	45	0.08		
Lorient ...	29.88	53	W	1	o	29.97	+0.09	53	50	0	W	2	o	*	68	46	0.08		
Rocheport ...	29.84	53	S	3	o	29.92	+0.17	48	47	-2	S	1	c	*	61	46	0.08		
Belfort ...	29.98	57	2	0	c	29.91	-0.11	56	51	0	ENE	2	o	0	63	52	—		
Lyons ...	29.89	56	N	2	o	29.94	+0.31	55	49	-5	W	2	bc	*	72	46	0.25		
Nice ...	29.88	61	2	0	bc	29.98	+0.37	54	50	+4	WNW	4	o	3	64	48	0.12		
Perpignan ...	30.10	52	NW	4	bc	30.11	+0.15	52	48	0	N	4	bc	4	59	48	—		
Barritz ...																			
Coruana ...																			
Lisbon ...																			

For Explanation of Columns, see p. 4.

2 Received too late for insertion in Chronicle of 2.

CHARTS

Thursday, 2nd May.

1889

(Explanation of Map)

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

\rightarrow = forces above $W_i \rightarrow$ = forces 8 to W_i
 \rightarrow = forces 5 to $7_i \rightarrow$ = forces 1 to 4_i
 \odot = dead calm.

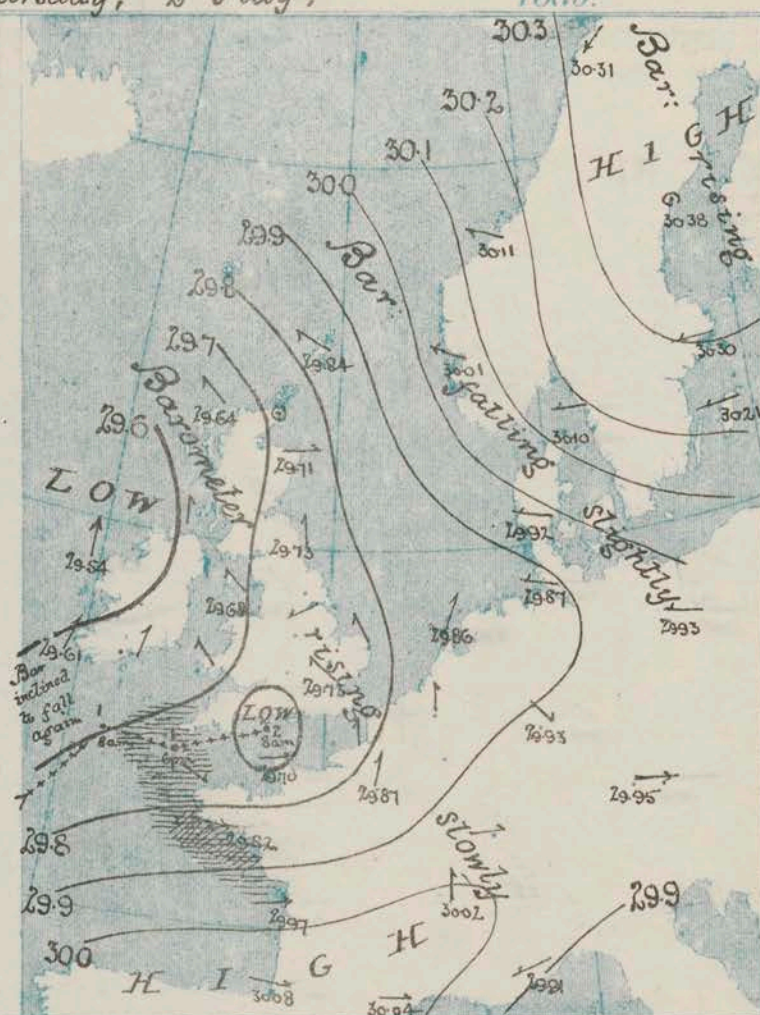
Seq. Disturbance — where considerable, is shewn thus.

MEAN HEIGHT of the BAROMETER

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

During the 15 Years 1871—1885

STATIONS.	MEAN READINGS.
	<i>ms.</i>
Sumburgh Head	29 · 878
Sornoway	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



with RAINFALL in PAST 24 HOURS

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	43.4	45.0	2.64
Wick	53.7	40.4	47.9	45.2	1.62
Nairn	55.9	42.0	43.4	45.0	1.67
Aberdeen	55.0	41.7	45.9	45.3	1.90
Leith	57.8	42.2	50.1	46.7	1.85
Shields	54.2	43.1	49.1	45.9	1.75
York	59.3	47.6	49.6	46.4	1.71
Loughborough	61.5	43.2	51.2	47.6	1.96
Ardrossan	56.2	43.7	49.3	46.4	2.20
Donaghadee	55.9	43.8	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
Paceinstown	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	43.2	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	49.3	1.77
LONDON	62.1	44.1	52.4	48.4	1.73
Oxford	60.5	43.9	50.6	47.4	1.33
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 16 years 1871-86, the Rainfall means are mainly those for the 20 years 1866-85



GENERAL SITUATION AT 8 A.M.

PRESSURE

Highest, 30° 3' N. and upwards, over Sweden and the north of Norway; 30° 1' N. and upwards over Portugal.
Lowest, 23° 5' N. and less, in a depression lying east and to the westward of Iceland; 23° 7' N. and less, in a small disturbance lying over the Central part of the English Channel.
Gradients slight generally. Barometer falling a little over the North Sea and adjacent coast, as well as at Katerina, but rising elsewhere.

TEMPERATURE

Highest, 53° at Ribow, 56° at Nix, 55° at Hinderwasser, Wiesbaden, and Pöppig, and 54° at Hamm, Rochfort and Bismarck.
Lowest, 41° at Homburg, 43° at Andernach, 44° at Lüneburg Heath and Wick, 45° at Schild and Yarmouth, and 46° at Freuden, Hain, Spau, W. Belmont, and Barren in America.

WIND

Light or moderate from the End over the greater part of our islands as well as on the eastern shores of the North Sea.
Variable in the East of Scotland, SW^{ly} or W^{ly} on our extreme southwest coasts.
Strong from the Wnd in the west of ^{the} Orkney, light from SW in the east of that country.

WEATHER

Rainy on our extreme northern and northeastern coasts, and showing in the south of England.
 Fine in most other localities, but foggy at Yarmouth.
 Showers fell yesterday in nearly all parts of Western Europe, and thunderstorms occurred at some of the English stations, as well as at Meln. H^o.

SEA

High at Lowest and rather rough at the mouth of the Channel, but moderate to smooth elsewhere.

PROBABLE CHANGES IN SYSTEM NOW PREVALENT

The small depression over the mouth of the Channel seems likely to travel slowly northwards across the southeast of England and will probably occasion (or continuance) of showery weather with thunder in some places. A new disturbance is apparently advancing towards our extreme western coasts.


FORECASTS

for the 24 hours ending at NOON on 3rd MAY

1889.

DISTRICTS.		FORECASTS.		DISTRICTS.		FORECASTS.	
0	SCOTLAND NORTH	SE ¹ / ₄ winds, moderate or fresh; changeable, some rain.		6	SCOTLAND WEST	Same as No. 1.	
1	SCOTLAND EAST	Variable breezes, finally SE ¹ / ₄ ; unsettled, some showers.		7	ENGLAND N. W.	Same as Nos. 2 and 3.	
2	ENGLAND N. E.	{ SE ¹ / ₄ winds, light or moderate; changeable, some showers, thunder locally.		8	ENGLAND S. W.	{ SW ¹ / ₂ and S ¹ / ₂ winds, moderate or fresh; changeable, some showers.	
3	ENGLAND EAST			9	IRELAND NORTH		
4	MIDLAND COUNTIES	{ SE ¹ / ₄ to S ¹ / ₄ or SW ¹ / ₄ winds, moderate; changeable, some showers, thunder locally.		10	IRELAND SOUTH		
5	ENGLAND SOUTH						
				WARNINGS			
				The <u>NORTH CONE</u> has been lowered this morning in districts 0, 1, and part of 2.			

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

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

YESTERDAY'S 2 P.M. REPORTS.

	Bar.	Dry.	Wet.	Wind.	Wea.	Sea.		Bar.	Dry.	Wet.	Wind.	Wea.	Sea.
Skudesnaes ...	29.04	59	48	ESE 6	c	4	Holyhead ...	29.60	56	49	SE 3	bc	2
Sumburgh Head ...	29.81	45	44	E 6	r	6	Valencia ...	29.51	53	50	NW 3	om	4
Stornoway ...	29.81	47	47	S 5	r	4	Scilly ...	29.39	50	48	SSE 6	op	7
Aberdeen ...	29.71	48	46	SE 6	bg	6	Jersey ...	29.64	52	47	S 6	cgp	5
Shields ...	29.69	48	47	E 4	bc	4	Dungeness ...	29.74	46	45	SSE 2	r	2
Ardrossan ...	29.58	47	46	E 4	r	2	London ...	29.74	50	45	ESE 3	o	*
Malin Head ...	29.46	47	46	E 1	o	0	Yarmouth ...	29.80	48	47	SPW 4	r	4
Mullaghmore ...	29.45	51	48	SPW 2	op	2	Rocheport ...	29.81	58	52	SPW 4	bc	2
Belmullet ...	29.47	48	45	WSPW 1	o	*							

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

Yesterday morning's reports showed that pressure varied from between 30.2 ins. and 30.4 ins. over Central Russia and Scandinavia, and from 30.0 ins. and more over Southeastern Europe and the eastern part of the Mediterranean to less than 29.4 ins. in a depression which lay off the south of Ireland, to less than 29.5 ins. off the west of Scotland, and to less than 29.9 ins. in a shallow disturbance over the Crimea. The wind was light and exceedingly variable over northern, eastern, central, and southeastern Europe, but was mainly S² or SE² over the British Isles and North Sea, and blew strongly in Scotland and about the mouth of the English Channel. The weather was fine over northern and fair over Central Europe, very changeable and unsettled elsewhere, with rain in several places. Large quantities of rain had fallen in many localities during the previous night, and thunderstorms had been very prevalent in France and Germany. Temperature was above 40° at all but the Finnish stations; it did not reach 50° in many parts of our Islands, but was above that value over Germany, Austria, and Southern Europe, and exceeded 60° at a few of the stations in Southern Europe and Algeria. The highest values were 64° at La Balde, 63° at Malta and Rhindia, 62° at Algiers and Berma, 60° at Perpignan, 59° at Lough, Naples, and San Fernando, 58° at Berlin, 56° at Kiev and Rudaik, 53° at Borunna and Skudesnaes, and 51° at Valencia; the lowest were 37° at Kuopio, 39° at St. Petersburg, 42° at Helsingfors and Helsingland, 44° at Helsingland and 46° at Helsingland.

During the day showery weather continued prevalent over the British Isles and France, with thunder in places. Temperature rose to 73° at Berlin and Perpignan and to between 55° and 60° in many parts of the British Islands.

EXPLANATION OF COLUMNS GIVEN ON PAGE 1.

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

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

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

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

DAILY WEATHER REPORT.

for *Friday, 3rd May, 1889.*
Issued by the Meteorological Office, 63 Victoria Street, London. R. H. SCOTT, Secretary.

+ YESTERDAY EVENING.																			8 A.M. TO DAY.										PAST 24 HOURS.		
STATIONS.	Barometer at 32° F. and Sea Level.	Temp. in Shade.	WIND.		Weather.	BAROMETER.		SHADE TEMP.			WIND.		Weather.	Sea. (0 to 3.)	SHADE TEMP.		Amount of Rainfall.														
			Dirco.	Force (0 to 12.)		Reading at 8 a.m. and Sea Level.	Difference from 8 a.m. yesterday.	Dry.	Wet.	Difference from 8 a.m. yesterday.	Dirco.	Force (0 to 12.)			Max.	Min.															
SCANDINAVIA.																															
Haparanda ..	30.36	37	NE	2	0	30.38	-.00	37	37	- 4	NE	2	0	*	46	28	0.08														
Hernösand ...	30.42	38	Z	0	0	30.41	-.03	45	41	+ 4	Z	0	0	*	59	32	-														
Stockholm ...	30.30	43	N	2	0	30.32	-.02	49	43	0	E	2	0	*	57	34	-														
Wisby ...	30.20	40	E	4	0	30.21	-.00	48	43	- 2	E	3	0	*	55	36	-														
Bodö ...	30.32	48	NE	4	0	30.28	-.03	49	42	- 2	EHE	4	0	2	55	41	-														
Christiansund...	30.04	57	Z	0	0	30.14	+.03	53	48	0	ESE	3	0	1	63	46	-														
Skudesnaes ...	30.02	55	ESE	6	0	30.08	+.07	45	43	- 10	SSE	6	0	4	59	43	-														
Christiania Fjord (Færder)	30.15	54	EHE	3	bc	30.21	-.00	48	43	+ 2	NE	5	0	2	54	46	-														
Skagen (The Scaw)	30.09	52	E	1	0	30.10	-.00	46	42	- 3	ESE	3	0	1	66	45	-														
Fanö ...	29.96	51	SE	4	r	30.04	+.12	47	47	- 5	SW	1	0	*	66	46	0.59														
BRITISH ISLANDS.																															
Sumburgh Head	29.82	44	ESE	4	m	29.91	+.07	42	42	- 2	SSE	2	0	5	46	40	0.02														
Stornoway ...	29.64	52	E	4	0	29.66	+.02	49	48	0	SE	5	0	4	54	45	-														
Wick ...	29.77	48	E	3	0	29.81	+.04	43	42	- 1	SE	4	0	4	52	42	0.15														
Nairn ...	29.71	50	E	1	0	29.75	+.06	52	47	+ 6	ESE	2	0	1	54	40	-														
Aberdeen...	29.84	44	SSE	3	bc	29.89	+.18	41	41	- 2	SE	2	0	3	50	41	-														
Leith ...	29.75	50	ESE	1	c	29.82	+.11	49	47	- 1	SE	1	cm	*	55	40	0.02														
Shields ...	29.61	45	SSE	2	bcm	29.84	+.14	48	47	+ 3	Z	0	m	2	49	41	-														
Spurn Head ...	29.62	47	ESE	2	0	29.93	+.17	50	48	+ 4	SSE	3	bc	3	50	44	-														
York ...	29.76	53	E	1	bc	29.87	+.15	50	48	+ 3	SE	2	bc	*	60	41	0.06														
Loughborough	29.82	57	SSE	1	bc	29.93	+.17	52	50	+ 5	SSE	2	ow	*	60	40	-														
Ardrossan ...	29.71	51	S	3	bc	29.75	+.08	49	48	- 1	SE	4	r	3	57	41	0.01														
Malin Head ...	29.53	53	SSE	6	0	29.55	-.03	48	47	+ 1	SSE	5	or	3	54	46	0.11														
Mullaghmore ...	29.51	55	SE	6	cp	29.50	-.08	49	47	+ 3	SE	6	gr	5	58	42	0.22														
Beimullet ...	29.46	54	SSW	5	p	29.41	-.13	49	49	0	SE	5	0	*	56	46	0.43														
Donaghadee ...	29.70	49	S	5	bc	29.71	+.04	48	48	- 1	SE	5	r	3	52	45	0.12														
Barrow-in-Furness	29.76	52	S	3	bc	29.81	+.10	48	46	+ 2	SE	5	0	*	56	46	0.02														
Liverpool (Bidston)	29.79	53	SSW	2	c	29.84	+.12	50	48	+ 3	SSE	2	0	3	57	45	0.02														
Holyhead ...	29.76	49	SSW	3	0	29.76	+.08	50	47	0	SSE	5	ogm	5	55	47	0.02														
Parsonstown ...	29.62	52	ESE	2	0	29.51	-.08	50	49	+ 3	SE	3	r	*	60	46	0.13														
Valencia ...	29.55	51	S	7	rm	29.35	-.26	52	52	0	SSW	5	rm	5	53	47	1.07														
Roche's Point...	29.66	50	SSW	5	p	29.46	-.18	50	50	0	SE	8	r	6	52	48	0.70														
Pembroke ...	29.79	49	S	4	c	29.73	+.05	49	48	+ 1	SSE	7	rgm	5	52	47	0.03														
Scilly ...	29.79	52	S	4	0	29.69	-.02	51	50	+ 1	S	7	od	6	57	49	0.01														
Prawle Point ...	29.88	50	SW	4	0	29.89	+.19	50	49	- 4	S	5	bc	4	53	46	-														
Jersey ...	29.94	54	WWSW	3	0	29.98	+.28	49	48	- 1	SE	5	om	3	55	42	-														
Harst Castle ...	29.40	52	WSW	5	0	29.96	+.26	50	49	0	SSW	5	0	3	55	48	-														
Dungeness ...	29.87	50	SSW	4	bc	30.02	+.28	51	49	+ 3	S	3	c	2	55	45	-														
London ...	29.85	50	SSW	2	cp	29.99	+.26	53	49	+ 4	S	3	c	*	58	42	0.45														
Oxford ...	29.88	50	SW	2	0	29.96	+.23	50	48	+ 3	S	3	0	*	60	44	0.08														
Cambridge ...	29.81	56	S	1	bc	29.98	+.22	53	51	+ 5	S	1	c	*	60	39	0.10														
Yarmouth ...	29.84	50	SSE	3	0	29.98	+.20	50	49	+ 5	SSW	2	0	2	51	42	-														
Cuxhaven ...	29.95	46	N	4	bc	30.03	+.16	48	47	- 5	ESE	1	0	*	60	46	0.46														
Berlin ...	29.93	68	SE	2	c	30.07	+.14	59	57	0	WWSW	2	c	*	73	57	-														
Wiesbaden ...	*	*	*	*	*	30.11	+.18	49	46	- 6	SW	1	0	*	62	63	0.12														
Munich ...	30.06	54	WWSW	2	0	30.12	+.17	51	48	- 3	WWSW	1	0	*	64	46	-														
FRANCE & NETHERLANDS.																															
The Helder ...	29.93	53	EHE	1	c	30.04	+.18	48	47	- 2	SSW	1	0	1	59	43	0.08														
Brussels ... 9AM	*	*	*	*	*	30.08	+.20	54	49	+ 2	S	1	0	*	63	46	0.04														
Cape Gris Nez...	?	50	SW	3	0	?	?	49	47	+ 1	S	3	0	2	57	46	-														
Paris ...	29.98	59	WWSW	3	c	30.07	+.20	50	48	+ 1	S	1	0	*	63	39	-														
Brest ...	?	55	WWSW	4	0	?	?	53	50	+ 3	S	6	0	6	54	45	-														
Lorient ...	29.99	53	SW	2	bc	29.95	+.13	51	50	+ 1	S	3	0	5	55	48	-														
Rochefort ...	30.15	56	W	3	0	30.05	+.08	51	48	- 3	ESE	3	bc	2	61	41	-														
Belfort ...	30.01	51	W	1	0	30.02	+.05	56	51	+ 3	E	1	0	*	68	39	-														
Lyons ...	30.04	57	N	1	bc	30.04	+.02	51	47	+ 3	N	3	0	*	64	46	-														
Nice ...	29.90	61	SW	1	c	29.93	+.02	55	54	- 1	WWSW	2	c	0	66	52	-														
Perpignan ...	30.03	63	WWSW	3	0	30.01	-.03	58	52	+ 3	WWSW	2	0	*	67	46	-														
Biarritz ...	30.06	56	WWSW	3	0	29.94	-.14	54	49	0	SSE	4	c	2	63	46	-														
SPAIN.																															
Cornana ...	*	*	*	*	*	29.85	-.23	54	51	+ 2	S	2	r	3	63	50	0.08														
Lisbon ...	30.09	53	WWSW	4	bc	30.05	-.06	52	49	0	SSE	3	0	2	68	50	-														

WEATHER CHARTS

for 8 a.m. on

Friday, 3rd May,

1889.

BAROMETER, WIND & SEA.

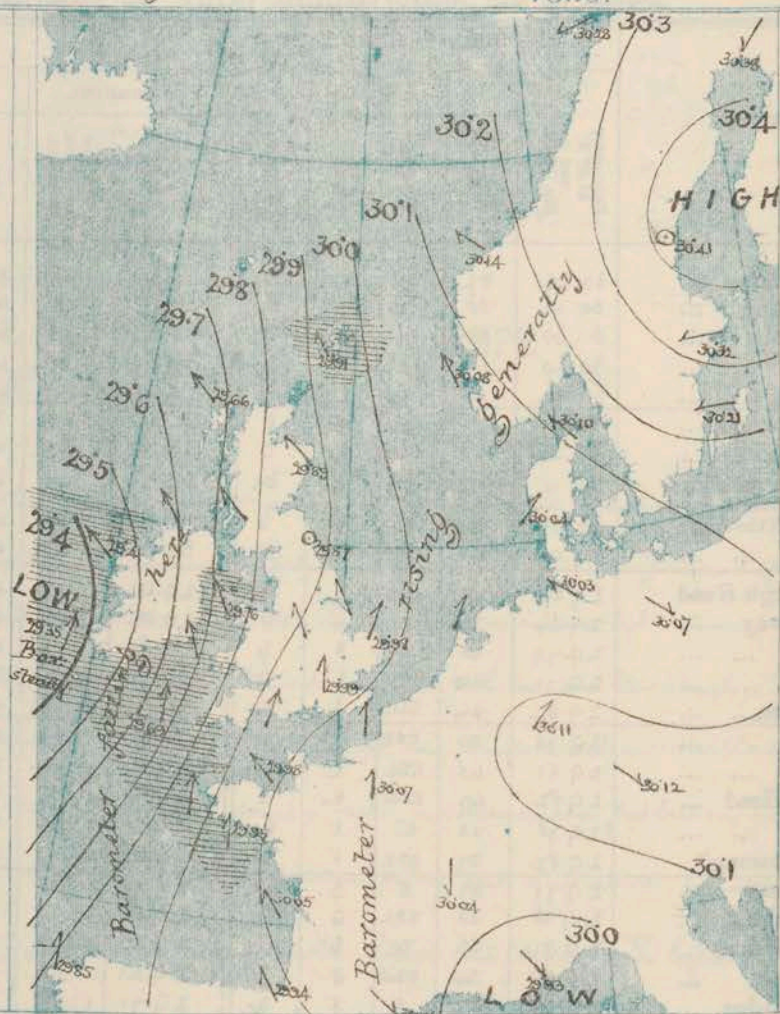
(Explanation of Map)

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

Sea Disturbance — where considerable is shown thus.

— Rough. — High.
MEAN HEIGHT of the BAROMETER
 at 8 a.m. for the month of 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



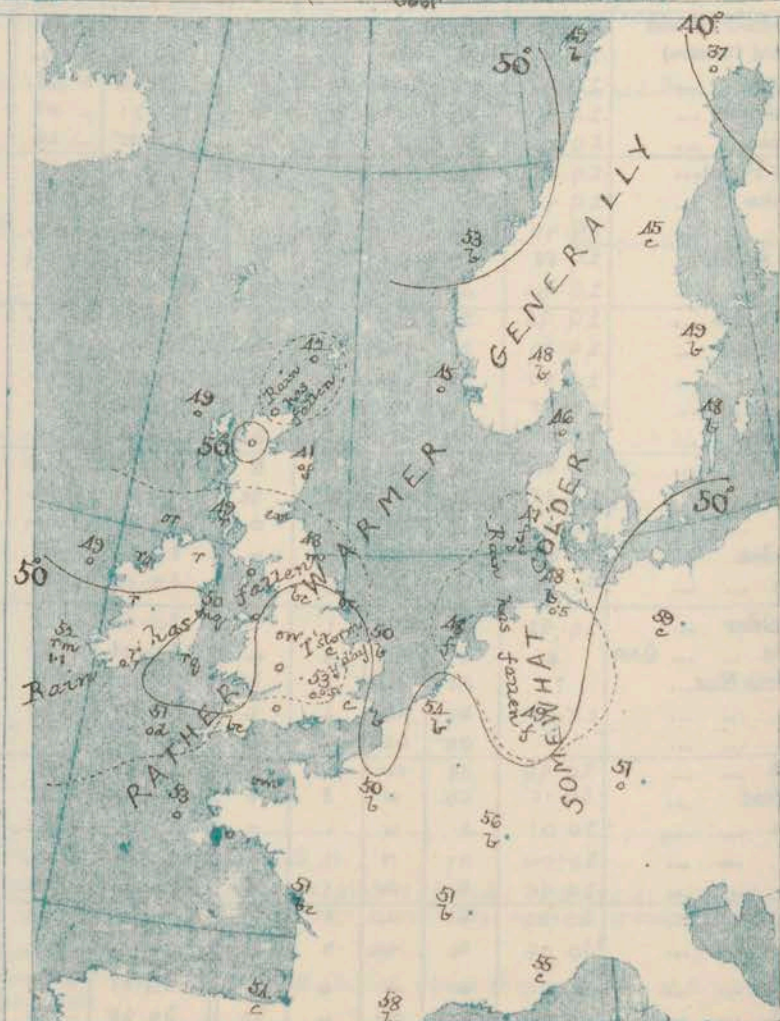
TEMPERATURE, & WEATHER at 8 A.M., with RAINFALL in PAST 24 HOURS.

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.	at 8 a.m.		
			Dry.	Wet.	
Samburgh 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	51.5	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	49.6	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, 30.4 in. and upwards, over Central Sweden; 30.0 in. and upwards, over the south of Portugal.
Lowest, 29.4 in. and less, in a depression lying off the coast of Ireland.
Gradients, steep over our western coasts, but moderate or slight elsewhere.

Barometer, falling briskly in the west and southwest of our Islands, and less decidedly in the east of France, but rising in most other localities.

TEMPERATURE

Highest, 59° at Berlin, 58° at Rangoon, 56° at Belfast, 55° at Nice, 54° at Bournemouth and Birm., and 53° at Christchurch, Cambridge, and in London.
Lowest, 37° at Haparanda, 41° at Aberdeen, 41° at Sumburgh Head, 43° at Wick, 45° at Harwich and Stadenæs, and 46° at Skagen.

During yesterday the thermometer again rose as high as 73° at Berlin; over our Islands the highest reading was 60° at Yorkburgh, Roskilde, and Cambridge.

WIND

SE or S over our Islands, the south of Norway, the west and north of France; strong in force on our western and south-western coasts.
Light or moderate from the E or NE over the northern part of Scandinavia.

Variable in the south of Denmark, light from the NW over Germany and the extreme south of France.

WEATHER

Fine at most of the Scandinavian stations, as well as over the east of England and the greater part of France.
Cloudy or overcast elsewhere, with rain in Ireland and the southwest of England.

Since yesterday morning, 1.1 in. of rain has fallen at Valencia, 0.7 in. at Rochester, 0.6 in. at Faro, and 0.5 in. at Aleshaen and in London.
Thunderstorms occurred yesterday at Cambridge and Furkaen, and a heavy hail shower passed over London at 11.15 am.

SEA

Rough or rather so on our west and south-west coasts and also at Sumburgh Head, but moderate to smooth elsewhere.

PROBABLE CHANGES IN SYSTEM NOW PREVALENT

The depression off the west of Ireland will probably spread eastwards and unsettled weather is therefore likely to continue over the whole Kingdom, with thunder at some of the English stations.

A further increase of wind is likely to take place on our south-western, western and northern coasts.

FORECASTS

For the 24 hours ending at NOON on 4TH MAY. 1889.

DISTRICTS.		FORECASTS.	
0	SCOTLAND NORTH	SE ^y winds, increasing in force; fair to dull and some rain.	
1	SCOTLAND EAST		
2	ENGLAND N. E.	S ^y and SE ^y winds, freshening; fair to unsettled and some rain, possibly thunder.	
3	ENGLAND EAST		
4	MIDLAND COUNTIES	S ^y winds, freshening considerably; unsettled, some rain, thunder locally.	
5	ENGLAND SOUTH		

DISTRICTS.		FORECASTS.	
6	SCOTLAND WEST	SE ^y winds, increasing to a gale; squally, rain at times.	
7	ENGLAND N. W.		
8	ENGLAND S. W.	S ^y and SE ^y strong winds and gales; squally, rain at times.	
9	IRELAND NORTH		
10	IRELAND SOUTH	Same as N ^{os} 6 and 7	
WARNINGS		Same as N ^o 8.	
The SOUTH CONE has been hoisted this morning in districts 6 to 9 and part of 5.			

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

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

YESTERDAY'S 2 P.M. REPORTS.

	Bar.	Dry.	Wet.	Wind.	Wca.	Sea.		Bar.	Dry.	Wet.	Wind.	Wca.	Sea.
Skudesnaes ...	30.04	58	48	ESE 6	c	4	Holyhead ...	29.73	55	49	SSW 3	b	2
Samburgh Head ...	29.78	45	44	ESE 5	r	6	Valencia ...	29.58	52	50	S 5	r	5
Stornoway ...	29.64	54	51	SE 3	bc	3	Scilly ...	29.78	57	53	SSW 5	c	4
Aberdeen ...	29.78	46	43	SE 3	bc	3	Jersey ...	29.88	55	52	W 5	bc	4
Shielda ...	29.77	48	46	ESE 3	b	3	Dungeness ...	29.79	55	51	SSW 4	bc	3
Ardrossan ...	29.69	53	50	S 3	bc	2	London ...	29.79	53	50	W 1	sm	*
Malin Head ...	29.56	49	48	S 5	o	2	Yarmouth ...	29.81	50	48	SE 3	bc	3
Mullaghmore ...	29.56	56	49	ESE 5	bc p v	3	Rochefort ...	30.08	56	52	WNW 5	o	2
Belmullet ...	29.52	55	52	SSW 3	b	*							

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

The reports for yesterday morning showed an increase of pressure over Western Europe generally — greatest over Spain — the readings varied from 30.3 in. and more over Finland and the northern parts of Scandinavia, and from 30.1 in. and more over the Spanish Peninsula, to 29.6 in. and less over the northwest of Ireland and to 29.8 in. and less, between Malta and Tunis. E winds of little strength were still prevalent over the Baltic and Scandinavia, while strong W winds were felt over the Bay of Biscay, and S to SE breezes over the United Kingdom. Over Russia, Central, and Southern Europe the wind was very light and variable. The weather was fair all over northern, eastern and southwestern Europe, but over the United Kingdom and neighbouring countries it was very changeable and showery, and over the southeastern parts of the Mediterranean it was dull and unsettled. Temperature^{10.20} still a little below 40° over Finland, but had risen to above 50° over Central Russia and to 60° and more at many of the Mediterranean stations and at Livorno. The highest morning readings were 67° at Sfax, 65° at Constantinople, 64° at Malta, Naples, and Brindisi, 62° at Algiers and Cagliari, 62° at Livorno, 59° at Barcelona and Berlin, 58° at Buda Pesth, 56° at Kharkov, 55° at Moscow and Warbado; the lowest were 37° at St. Petersburg, 38° at Kuopio, 41° at Haparanda and Heröland, 43° at Aberdeen, 44° at Wick, 45° at Yarmouth, 47° at Portsmouth and Madrid, and 48° at Copenhagen and Cambridge. At Paris and in London the temperature was 49°.

During the day heavy showers of rain and hail occurred in many parts of England, and later on much rain fell in the south of Ireland, as a new large depression advanced towards our extreme western coasts.

EXPLANATION OF COLUMNS GIVEN ON PAGE 1.

WEATHER.—Beaufort Scale is b. blue sky; c. detached clouds; d. drizzling rain; f. fog; g. dark, gloomy; h. hail; l. lightning; m. misty (hazy); o. overcast; p. passing showers; q. 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, 4th May, 1888.*
 Issued by the Meteorological Office, 63 Victoria Street, London. R.H. SCOTT, Secretary.

STATIONS.	† YESTERDAY EVENING.					8 A.M. TO DAY.										PAST 24 HOURS.		
	Barometer at 32° F. and Sea Level.	Temp. in Shade.	WIND.		Weather.	BAROMETER.		SHADE TEMP.			WIND.		Weather.	Sea. (0 to 9.)	SHADE TEMP.		Amount of Rainfall.	
			Dir.	Force. (0 to 12.)		Reading at 32° F. and Sea Level.	Difference from 8 a.m. yesterday.	Dry.	Wet.	Difference from 8 a.m. yesterday.	Dir.	Force. (0 to 12.)			Max.	Min.		
Haparanda ..	?	33	Z	0	0	30.38	-.00	34	34	- 3	S	2	c	*	41	30	0.08	
Hernösand ...	30.30	36	Z	0	0	30.41	-.00	36	35	- 9	Z	0	c	*	54	30	.	
Stockholm ...	30.36	42	ESE	1	0	30.36	+.04	55	47	+ 6	ESE	2	b	*	57	34	.	
Wisby ...	30.26	46	SE	4	0	30.26	+.05	59	54	+ 11	SE	2	b	*	61	34	.	
Bodö ...	30.28	44	ESE	4	0	30.29	+.01	47	40	- 2	E	2	b	1	34	30	.	
Christiansund...	30.12	57	ESE	1	0	30.25	+.11	52	48	- 1	Z	0	b	0	64	45	.	
Skudesnaes ...	30.17	44	Z	0	bc	30.25	+.17	45	43	0	E	1	c	3	46	41	.	
Christiania Fjord (Farder)	30.15	49	ESE	4	0	30.26	+.05	46	45	- 2	Z	0	0	1	52	45	.	
Skagen (The Scaw)	30.19	46	SSW	1	0	30.24	+.14	45	44	- 1	NE	1	f	1	52	43	0.28	
Fanö ...	30.16	50	Z	0	0	30.21	+.17	47	47	0	E	4	f	*	59	46	.	
Sumburgh Head	29.94	44	SSE	4	m	30.01	+.10	46	45	+ 4	SE	2	c	5	46	39	.	
Stornoway ...	29.65	51	SE	1	0	29.81	+.15	50	49	+ 1	SE	4	0	4	51	47	0.05	
Wick ...	29.81	45	S	5	0	29.94	+.13	48	47	+ 5	S	4	c	4	48	42	0.01	
Nairn ...	29.76	54	E	1	0	29.89	+.14	54	51	+ 2	Z	0	0	1	55	52	.	
Aberdeen...	29.89	46	SE	3	ogm	30.00	+.11	49	47	+ 8	SSE	3	bc	3	49	41	.	
Leith ...	29.82	51	SSE	2	c	29.93	+.11	57	52	+ 6	SE	2	c	*	57	47	.	
Shields ...	29.89	50	S	2	c	29.98	+.11	49	47	+ 1	SE	2	bc	2	56	44	.	
Spurn Head ...	29.95	50	ESE	4	bc	29.99	+.06	48	47	- 2	SE	3	c	3	53	46	.	
York ...	29.88	58	SSE	3	0	29.95	+.08	53	51	+ 3	ESE	1	b	*	59	46	.	
Loughborough	29.94	58	SSE	3	c	29.97	+.04	53	51	+ 1	ESE	2	c	*	61	43	.	
Ardrossan ...	29.73	50	SE	4	0	29.86	+.11	51	44	+ 2	E	4	opm	3	51	47	0.03	
Malin Head ...	29.50	52	SSE	5	or	29.66	+.11	49	49	+ 1	SSE	5	or	3	53	47	0.13	
Mullaghmore ...	29.53	56	SSW	5	0	29.67	+.17	52	51	+ 3	S	4	og	2	58	48	0.10	
Balmullet ...	29.55	51	SW	3	0	29.67	+.26	51	49	+ 2	ESE	1	o	*	55	47	0.04	
Donaghadee ...	29.71	49	SSE	6	r	29.83	+.12	49	48	- 1	S	5	r	3	49	47	0.32	
Barrow-in-Furness	29.84	53	SE	4	0	29.90	+.09	53	51	+ 5	E	4	bc	*	53	47	0.07	
Liverpool (Bidston)	29.86	55	SSE	3	0	29.91	+.07	55	50	+ 5	SE	3	c	3	58	48	0.02	
Holyhead ...	29.78	51	SSE	6	ogm	29.84	+.08	53	49	+ 3	SSE	4	rg	4	54	50	0.02	
Parsonstown ...	29.62	55	SSE	1	0	29.69	+.18	51	50	+ 1	SE	1	o	*	58	50	0.09	
Valencia ...	29.62	51	SSE	2	0	29.69	+.34	50	49	- 2	WNW	1	rm	1	54	47	0.23	
Roche's Point...	29.66	50	SSW	5	f	29.66	+.20	50	50	0	SSW	5	f	5	51	49	0.45	
Pembroke ...	29.80	50	S	6	r	29.79	+.06	50	49	+ 1	ESE	6	dq	5	51	48	0.01	
Scilly ...	29.74	51	S	6	0	29.74	+.05	52	52	+ 1	S	5	f	5	53	49	0.16	
Prawle Point ...	29.90	50	SSE	4	c	29.87	-.02	51	50	+ 1	SE	2	or	3	52	47	.	
Jersey ...	29.93	58	SE	3	0	29.90	-.08	56	51	+ 7	ESE	1	cm	1	59	48	.	
Hurst Castle ...	29.97	54	SSE	3	bc	29.92	-.04	55	53	+ 5	SE	3	b	2	56	50	.	
Dungeness ...	29.99	56	ESE	1	c	29.94	-.08	53	50	+ 2	ESE	1	bc	1	59	47	.	
London ...	29.98	58	SSE	2	bc	29.95	-.04	60	55	+ 7	NE	1	c	*	61	48	.	
Oxford ...	29.98	53	SSE	2	0	29.94	-.02	55	51	+ 5	SE	2	0	*	59	42	.	
Cambridge ...	29.99	58	S	1	0	29.97	-.01	60	55	+ 7	Z	0	c	*	66	46	.	
Yarmouth ...	30.02	50	S	2	0	30.00	+.02	50	49	0	SE	2	b	3	51	45	.	
Cuxhaven ...	30.09	54	NE	2	0	30.15	+.12	53	51	+ 5	E	3	b	*	57	47	.	
Berlin ...	30.13	63	WNW	2	c	30.12	+.05	64	57	+ 5	ESE	2	b	*	68	57	.	
Wiesbaden ...	*	*	*	*	*	30.01	-.10	60	55	+ 11	NE	1	b	*	66	3	.	
Munich ...	30.04	54	NE	3	0	30.02	-.10	55	52	+ 4	Z	0	b	*	61	41	.	
The Helder ...	30.10	51	NE	1	0	30.07	+.03	56	53	+ 8	ESE	1	bc	1	57	48	.	
Brussels ... 9 AM	*	*	*	*	*	30.00	-.08	53	51	- 1	ESE	1	0	*	67	49	.	
Cape Gris Nez...	?	52	E	1	bc	?	?	58	51	+ 9	E	2	bc	1	59	48	.	
Paris ...	30.01	61	SE	2	bc	29.98	-.09	56	52	+ 6	NE	1	b	*	69	46	.	
Brest ...	?	54	S	5	0	?	?	53	51	0	S	5	f	?	55	46	.	
Lorient ...	29.91	56	SSE	3	c	29.89	-.06	52	51	+ 1	S	2	r	5	59	50	0.04	
Rocheport ...	29.95	66	ESE	0	c	29.94	-.11	56	53	+ 5	E	1	c	2	75	45	.	
Belfort ...	29.97	55	E	1	bc	29.96	-.06	58	55	+ 2	E	1	b	*	67	45	.	
Lyons ...	29.96	62	N	2	0	29.99	-.05	56	52	+ 5	W	1	b	*	68	48	.	
Nice ...	29.96	56	WNW	1	r	29.95	+.02	59	53	+ 4	E	2	0	0	63	52	0.04	
Perrignan ...	29.96	64	NE	2	0	29.99	-.02	58	55	0	NE	2	bc	*	70	44	.	
Barritz ...	29.88	71	E	4	c	29.93	-.01	57	54	+ 3	Z	0	0	2	77	54	.	
Corunna ...	*	*	*	*	*	?	?	?	?	?	?	?	?	?	?	?	?	
Lisbon ...	30.02	57	SSW	4	0	29.99	-.06	58	55	+ 6	E	4	c	3	59	?	0.12	

1889

(Explanation of Map)

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

\rightarrow = forces above 10_1 \rightarrow = forces 8 to 10_1
 \rightarrow = forces 5 to 7 \rightarrow = forces 1 to 4,
 @ = dead culm.

Sea Disturbance — where considerable, is shewn thus.

 = *Rough*  = *High*

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

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.

AND RAINFALL.

[illegible]

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

GENERAL SITUATION AT 8 A.M.

PRESSURE

Highest, 30.4 ins: and upwards over Central Sweden
Lowest, 29.7 ins: and less, over the west and south of Ireland
Gradients moderate or slight generally. Barometer falling a little over France, Germany, and the south of France, but rising elsewhere.

TEMPERATURE

Highest 64° at Berlin, 60° at Wiesbaden, Cambridge and in London, 55° at Nuremberg and Nizza, and 58° at Belfast, Bournemouth and Lisbon.
Lowest 34° at Naparanda, 36° at Helsingfors, 45° at Shushan and Trapani, and 46° at Vienna and Lumburg.
(During yesterday the thermometer rose to 61° at Loughborough and in London, to 66° at Cambridge, to 68° at Berlin, to 75° at Rochester and to 77° at Biarritz.)

WIND

SE³ or S² over our Islands and the north of France; fresh or strong in force on our west coast, but light or moderate elsewhere.
Light from the End over the Netherlands, the eastern shores of the North Sea and the extreme south of France.
Calm or variable over Germany and Central France.

WEATHER

Dull and rainy at several of our western stations and foggy at the mouths of the English and St. George's Channels as well as in Denmark.
Fine in nearly all other localities, a solar halo is reported at Hunt Castle.
Solar halos were seen yesterday at Oxford and Sittingbourne.

SEA

Rather rough on our southwest coasts and also at Lumburg Head, but slight or smooth elsewhere.

PROBABLE CHANGES IN SYSTEM NOW PREVALENT

The depression which lay off the west of Ireland yesterday morning, subsequently travelled in a northwesterly direction.

Some slight irregularities in pressure are, however, beginning to appear off our south and southwest coasts, and unsettled thundery weather is likely at many of the English stations.

FORECASTS

for the 24 hours ending at NOON on 5th MAY

1889.

DISTRICTS.

FORECASTS.

0	SCOTLAND NORTH	SE ² winds, moderate; fair, warm.
1	SCOTLAND EAST	
2	ENGLAND N.E.	SE ² winds, light or moderate; fair to unsettled, thunder locally.
3	ENGLAND EAST	SE ² to S ² winds, light; unsettled, some rain, thunder locally.
4	MIDLAND COUNTIES	
5	ENGLAND SOUTH	

DISTRICTS.

FORECASTS.

6	SCOTLAND WEST	SE ² winds, moderate or fresh; changeable, some rain.
7	ENGLAND N.W.	
8	ENGLAND S.W.	SE ² and S ² winds, fresh; unsettled some rain.
9	IRELAND NORTH	Varying breezes, chiefly S ² ; unsettled, some rain.
10	IRELAND SOUTH	

WARNINGS

The SOUTH CONE has been lowered this morning in districts 6 to 9 and part of 5.

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

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

YESTERDAY'S 2 P.M. REPORTS.

	Bar.	Dry.	Wet.	Wind.	Wea.	Sea.		Bar.	Dry.	Wet.	Wind.	Wea.	Sea.
Skudesnaes ...	30.13	46	44	2a 0	0	3	Holyhead ...	29.75	52	50	SSE 6	2 q m	5
Sumburgh Head ...	29.94	44	43	SE 3	0	5	Valencia ...	29.55	52	50	SW 4	0	4
Stornoway ...	29.68	50	50	SE 3	0	3	Scilly ...	29.73	52	51	S 7	0	6
Aberdeen ...	29.88	46	45	SE 3	cpm	4	Jersey ...	29.96	57	53	ESE 3	c	3
Shields ...	29.87	55	51	S 2	smu	2	Dungeness ...	30.00	57	55	SW 3	c	2
Ardrossan ...	29.74	53	49	SE 4	r	3	London ...	29.99	58	52	S 3	c	*
Malin Head ...	29.44	51	49	SSE 7	0	4	Yarmouth ...	30.01	50	48	S 3	b	3
Mullaghmore ...	29.44	54	52	SE 6	org	3	Rocheport ...	29.99	75	61	ESE 3	bc	2
Belmullet ...	29.40	54	53	SW 3	od	*							

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

The reports for yesterday morning showed a continuation of high pressures (30.2 ins. to nearly 30.5 ins.) over Russia and Northern Europe; and of pressure exceeding 30.0 ins. over the southern part of the Spanish Peninsula, Algeria, Greece and Asia. To the westward pressure decreased to 29.4 ins. and less over the west of our Islands (where the barometer was falling) while in the south they were below 29.3 ins. over Sardinia, Corsica and Central Italy. The wind was E² and light over Northern Europe, SE² moderate to strong in the British Islands, S² over the Bay of Biscay and Spain. Over Central, Eastern, and Southern Europe it was very light and variable. The weather was rainy at the most western stations and also at Odessa, unsettled in the neighbourhood of Malta, fair or fine elsewhere. Temperature had decreased a little in the far north, and was below 40° over Finland and the east of Lapland; it was rather above 50° in many parts of the United Kingdom, still higher over Germany and Austria and above 60° over many parts of the Mediterranean and Adriatic. The highest individual morning values were 65° at Naples, 64° at Brindisi and Bilbao, 63° at Lissieux, Trieste, Florence and Barcelona, 62° at Huda Pash, 61° at Algiers and La Galle, 60° at Malta and Palermo, 59° at Berlin and Lorient, 58° at Prague and Breslau, 57° at Kiev, 53° in London and at Cambridge, 52° at Kain and Valencia, 51° at Scilly, and 50° at Haulebint and Paris.

Showery weather prevailed at our western stations during the day, but in the east and north the weather was fair generally. The thermometer rose to 61° in London and at Loughborough during the afternoon, to 68° at Berlin, 69° at Paris, 70° at Perpignan, 75° at Rocheport, and 77° at Kain.

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 5th May 1889.
 Issued by the Meteorological Office, 63 Victoria Street, London. R.H. SCOTT, Secretary.

STATIONS.	+ YESTERDAY EVENING.						8 A.M. TO DAY.										PAST 24 HOURS.		
	Barometer at 32° F. and Sea Level.	Temp. in Shade.	WIND.		Weather.		BAROMETR.		SHADE TEMP.			WIND.		Weather.	Sea. (0 to 9.)		SHADE TEMP.		Amount of Rainfall.
			Dir.	Force. (0 to 12.)			Reading at 8 a.m. and Sea Level.	Difference from 8 a.m. yesterday.	Dry.	Wet.	Difference from 8 a.m. yesterday.	Dir.	Force. (0 to 12.)				Max.	Min.	
SCANDINAVIA.																			
Haparanda ..	30.36	39	S	2	o		30.38	.00	38	36	+ 4	N	4	bc	*		39	28	0.04
Hernösand ...	30.38	44	Z	0	b		30.42	+ .01	44	40	+ 8	NNE	2	b	*		57	28	—
Stockholm ...	30.34	50	E	2	o		30.32	— .04	52	48	— 3	Z	0	o	*		66	39	—
Wisby ...	30.30	49	SE	4	f		30.26	.00	51	48	— 8	E	2	bc	*		66	43	—
Bodö ...	30.36	44	N	2	b		30.39	+ .10	49	43	+ 2	E	2	b	1		50	39	—
Christiansund...	30.31	59	ENE	1	bc		30.28	+ .03	52	48	— 0	E	1	c	1		66	45	—
Skudesnaes ...	30.28	47	Z	0	bc		30.19	— .06	58	51	+ 13	ENE	5	c	3		58	45	—
Christiania Fjord (Færdar)	30.26	52	NNW	3	b		30.29	+ .03	49	47	+ 3	NNW	4	c	1		54	46	—
Skagen (The Scaw)	30.24	50	E	1	b		30.24	.00	51	50	+ 6	E	1	b	1		54	45	—
Fanö ...	30.10	54	E	4	b		30.10	— .11	58	53	+ 11	E	4	b	*		63	46	—
BRITISH ISLANDS.																			
Sumburgh Head	30.09	44	SE	3	c		30.13	+ .12	47	46	+ 1	ENE	2	b	4		47	40	—
Stornoway ...	29.86	52	SE	2	r		29.89	+ .08	51	50	+ 1	E	4	o	0		53	47	0.30
Wick ...	30.00	46	S	6	o		30.05	+ .11	48	47	— 0	S	4	o	4		52	44	—
Nairn ...	29.91	60	ESE	1	o		29.96	+ .07	53	50	— 1	E	1	b	1		62	50	—
Aberdeen...	30.05	47	SE	2	c		30.02	+ .02	47	45	— 2	NE	2	o	3		51	44	—
Leith ...	29.93	55	SSE	2	c		29.97	+ .04	46	46	— 11	SE	1	om	*		67	44	—
Shields ...	29.95	49	E	3	c		29.94	— .04	46	46	— 3	Z	0	f	2		52	44	—
Spurn Head ...	29.94	50	ESE	4	bc		29.92	— .07	49	48	+ 1	NE	2	f	2		54	42	—
York ...	29.92	62	E	2	bc		29.90	— .05	48	47	— 5	N	1	o	*		69	44	—
Loughborough	29.90	66	SE	1	c		29.92	— .05	56	54	— 3	ENE	2	cm	*		71	49	—
Ardrossan ...	29.87	54	Z	0	o		29.87	+ .01	53	52	+ 2	NE	4	cm	2		58	49	0.20
Malin Head ...	29.74	53	SSE	5	or		29.80	+ .14	53	52	+ 4	SSE	4	of	2		55	49	0.02
Mullaghmore ...	29.71	56	ESE	5	c		29.79	+ .12	52	51	— 0	ESE	1	r	2		58	48	0.30
Belmullet ...	29.73	50	ENE	2	o		29.80	+ .13	50	49	— 1	NNW	2	o	*		52	48	0.18
Donaghadee ...	29.85	52	SSE	2	c		29.87	+ .04	52	50	+ 3	SE	4	bc	2		53	48	0.12
Barrow-in-Furness	29.88	57	WSW	2	o		29.88	— .02	57	54	+ 4	NE	2	bc	*		64	53	0.26
Liverpool (Bidston)	29.88	58	WSW	1	c		29.88	— .03	61	55	+ 6	SE	1	b	2		66	54	—
Holyhead ...	29.86	58	S	1	og		29.86	+ .02	59	54	+ 6	Z	0	c	0		60	50	0.02
Parsonstown ...	29.76	55	SE	1	o		29.80	+ .11	53	52	+ 2	Z	0	o	*		60	50	0.41
Valencia ...	29.71	53	SE	3	om		29.85	+ .16	53	49	+ 3	NNW	1	bv	2		55	46	0.43
Rocha's Point...	29.75	57	S	5	rm		29.80	+ .14	50	50	— 0	S	2	f	4		52	50	0.25
Pembroke ...	29.84	51	SSE	4	c		29.83	+ .04	50	50	— 0	SE	3	pm	3		53	49	0.10
Scilly ...	29.78	52	SE	4	f		29.78	+ .04	52	52	— 0	NNE	1	rf	4		54	50	0.28
Prawle Point ...	29.88	52	SE	2	o		29.79	— .08	54	51	+ 3	ENE	3	og	3		55	47	0.09
Jersey ...	29.88	63	Z	0	o		29.83	— .07	53	51	— 3	SW	4	gmtp	3		64	52	—
Hurst Castle ...	29.91	57	SSE	3	c		29.82	— .10	56	55	+ 1	ENE	3	c	2		63	52	—
Dungeness ...	29.91	56	E	3	bc		29.85	— .09	55	52	+ 2	E	2	b	2		63	48	—
London ...	29.90	64	SE	2	bc		29.87	— .08	63	58	+ 3	E	1	bc	*		74	51	—
Oxford ...	29.92	62	SSE	1	c		29.87	— .07	57	55	+ 2	E	1	c	*		71	51	—
Cambridge ...	29.92	64	SE	1	b		29.90	— .07	54	52	— 6	N	1	o	*		74	45	—
Yarmouth ...	29.98	53	ESE	1	b		29.91	— .09	50	50	— 0	Z	0	f	2		58	46	—
Cuxhaven ...	30.05	56	ENE	4	b		30.13	— .02	56	55	+ 3	E	4	b	*		61	53	—
Berlin ...	30.08	66	ESE	3	b		30.07	— .05	62	56	— 2	ESE	3	b	*		73	55	—
Wiesbaden ...	*	*	*	*	*		29.93	— .08	61	56	+ 1	Z	0	b	*		75	55	—
Munich ...	29.97	58	SE	1	bc		29.98	— .04	55	52	— 0	Z	0	c	*		72	45	—
FRANCE & NETHERLANDS.																			
The Helder ...	29.95	56	NE	1	b		29.92	— .15	57	55	+ 1	ENE	1	b	1		59	55	—
Brussels ...	*	*	*	*	*		29.89	— .11	61	58	+ 8	E	1	b	*		73	53	—
Cape Gris Nez...	?	56	NE	2	b		?	?	61	57	+ 3	SE	1	b	0		72	54	—
Paris ...	29.91	68	SSE	1	b		29.90	— .08	60	56	+ 4	NE	1	c	*		75	47	—
Brast ...	29.95	68	S	2	o		?	?	53	53	— 0	S	2	r	3		54	46	0.20
Lorient ...	29.87	56	Z	0	o		29.84	— .05	53	52	+ 1	Z	0	r	5		64	52	0.24
Rocheport ...	29.90	60	SW	3	b		29.89	— .05	57	56	+ 1	SSE	3	bc	2		73	46	0.20
Belfort ...	29.91	68	W	1	bc		29.90	— .06	64	57	+ 6	W	1	b	*		84	48	—
Lyons ...	29.93	64	SW	1	c		29.95	— .04	61	57	+ 5	SE	1	b	*		74	54	—
Nice ...	29.95	63	SW	3	bc		29.93	— .02	64	56	+ 5	W	2	b	0		72	54	—
Perpignan ...	29.76	52	SE	2	b		29.93	— .06	55	51	— 3	SE	2	o	*		72	51	—
Biarritz ...	29.82	64	ENE	3	c		29.81	— .12	58	55	+ 1	Z	0	r	1		75	55	—
PENIN- SULA.																			
Coranna ...	*	*	*	*	*		29.92	+ .07	54	54	— 3	WSW	4	o	4		63	43	0.24
Lisbon ...	30.00	57	SW	4	r		30.07	+ .08	56	54	— 2	NNW	4	bc	5		63	52	0.08

For Explanation of Columns, see p. 4.

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

WEATHER CHARTS

for 8 a.m. on

Sunday, 5th May,

1889.

BAROMETER, WIND & SEA.

(Explanation of Map)

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

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

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

Sea Disturbance — where considerable, is shown thus.

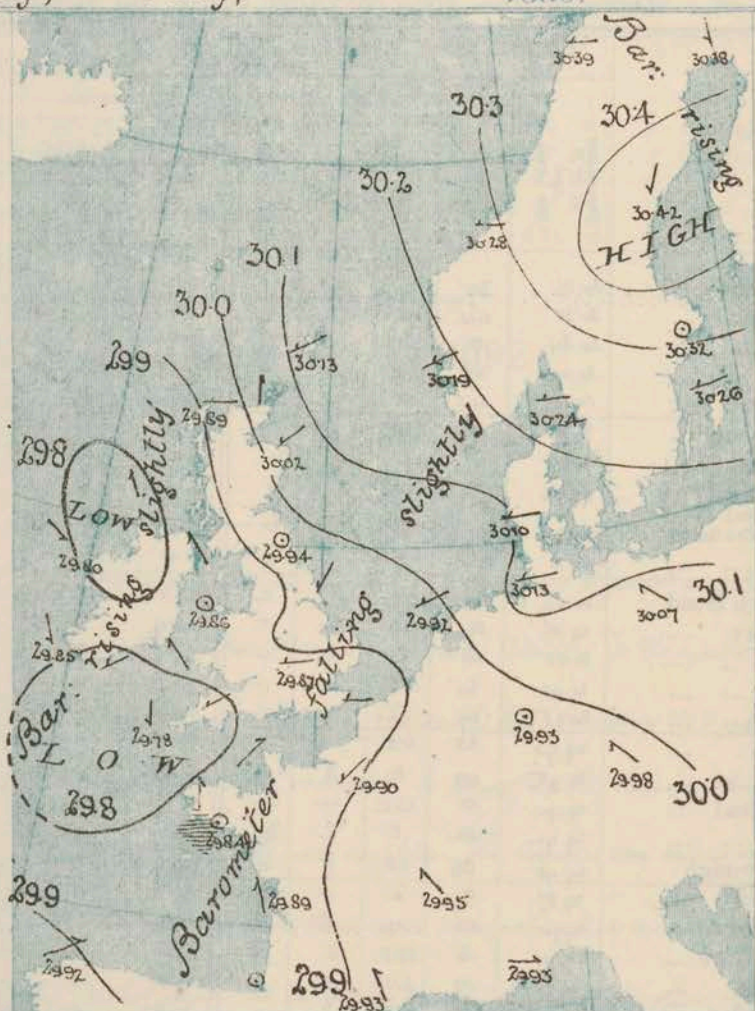
— Rough — High

MEAN HEIGHT of the BAROMETER

at 8 a.m. for the month of 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.

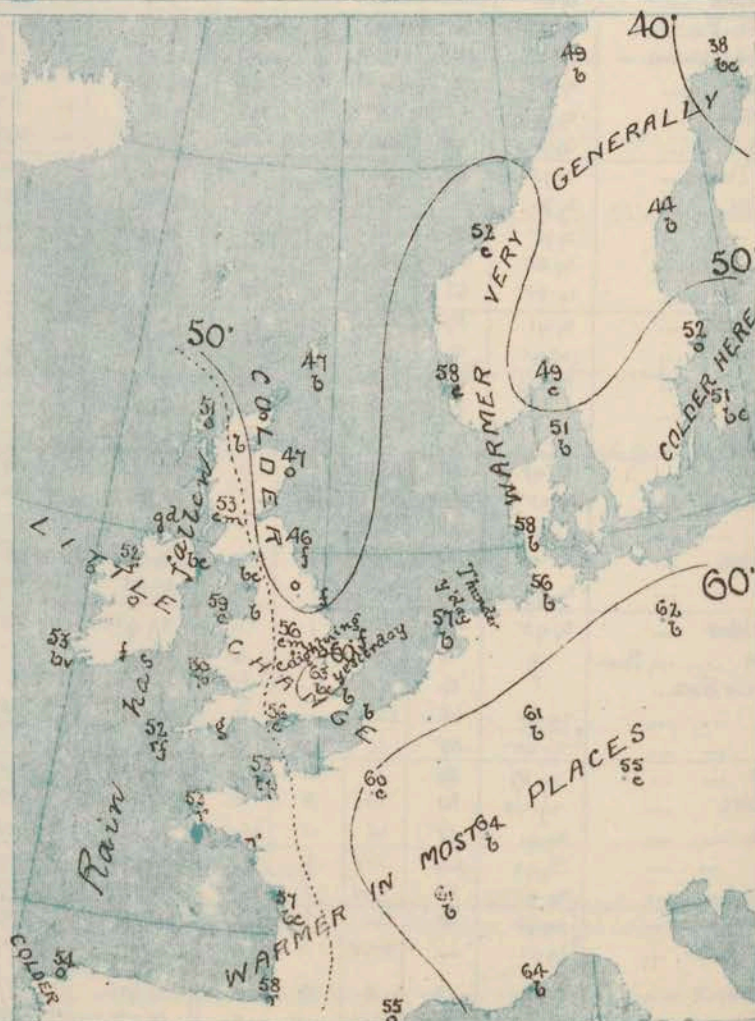
MEANS OF TEMPERATURE IN SHADE.

AND RAINFALL.

for the month of May.

STATIONS.	TEMPERATURE.				RAINFALL. (Inches)
	Daily Max.	Daily Min.	at 3 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	46.3	1.90
Leith	57.8	42.2	50.1	48.7	1.65
Shields	54.2	43.1	49.1	45.9	1.75
York	59.3	41.8	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	48.2	52.7	50.3	1.66
Jersey	59.2	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 25 years 1866-85.



GENERAL SITUATION AT 8 A.M.

PRESSURE

Highest, 30.4 ins. and upwards, over Central Sweden, 30.0 ins. and upwards, in the south of Portugal.
 Lowest, 29.8 ins. and less, in two shallow depressions lying respectively over the north of Ireland and our extreme southwest coasts.
 Gradients moderate or slight generally. Barometer rising in Scandinavia and the west and north of our Islands, but falling elsewhere.

TEMPERATURE

Highest, 64° at Belfast and Nice, 63° in London, 62° at Berlin, 61° at Liverpool. C. 50° at Algiers, Bouen, Marseilles and Lyons and 60° at Paris.
 Lowest, 38° at St. Petersburg, 44° at Moscow, 46° at Leith and Shields, 47° at Lumburg, 48° at Baden, and 48° at Wick and York.
 During yesterday the thermometer rose to 74° at Cambridge and in London, to 75° at Paris, Bismarck and Marseilles, and to 84° at Belfast.

WIND

Light or moderate from between NE. and SE. over the greater part of Western Europe, but calm, or light from the SE. in the east of France.
 Light from NW. in the west of Ireland, and moderate from the W. at Corunna and Lisbon.

WEATHER

Fine in Scandinavia, Denmark, Germany, and the east of France.
 Changeable elsewhere, with fog on our east and southwest coasts, rain at some of our western and southwestern stations, and thunder at Jersey.
 Since yesterday morning rain has fallen somewhat heavily in the west of our Islands. Lightning was seen last night in the east of England.

SEA

Rather rough at Lorient and Lisbon, but moderate to smooth elsewhere.

PROBABLE CHANGES IN SYSTEM NOW PREVALENT

FORECASTS

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

DISTRICTS.

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

FORECASTS.

NONE ISSUED

DISTRICTS.


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


WARNINGS

FORECASTS.

NONE ISSUED

NONE ISSUED.

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

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

YESTERDAY'S 2 P.M. REPORTS.

	Bar.	Dry.	Wet.	Wind.	Wea.	Ses.		Bar.	Dry.	Wet.	Wind.	Wea.	Ses.		
Skudesnaes ...	30.28	53	47	S	2	c	2	Holyhead ...	29.85	58	53	SSW	1	rg	2
Snmburgh Head ...	30.08	46	45	SE	3	o	5	Valencia ...	29.69	55	52	S	2	om	3
Stornoway ...	29.84	51	50	SE	2	r	2	Scilly ...	29.78	53	52	S	4	f	4
Aberdeen ...	30.04	51	48	ESE	3	bc	8	Jersey ...	29.90	62	55	E	1	o	1
Shields ...	29.98	49	47	E	3	o	2	Dungeness ...	29.92	61	56	ESE	2	bc	1
Ardrossan ...	29.88	55	53	E	2	o	2	London ...	29.92	71	59	ESE	3	c	2
Malin Head ...	29.70	52	50	SSE	6	o	5	Yarmouth ...	29.99	56	50	ESE	1	b	2
Mullaghmore ...	29.72	55	52	SE	5	o	2	Rocheport ...	29.92	67	59	NW	2	c	2
Belmullet ...	29.72	52	50	E	1	o	*								

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

NOTICE

These Remarks have been erroneously inserted on p.4 on Monday's Report, which see.

EXPLANATION OF COLUMNS GIVEN ON PAGE 1.

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

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

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DAILY WEATHER REPORT.

for *Monday, 6th May, 1889.*
Issued by the Meteorological Office, 63 Victoria Street, London. R. H. SCOTT, Secretary.

STATIONS.	† YESTERDAY EVENING.					8 A.M. TO DAY.										PAST 24 HOURS.		
	Barometer at 32° F. and Sea Level.	Temp. in Shade.	WIND.		Weather.	BAROMETER.		SHADE TEMP.			WIND.		Weather.	Sea. (0 to 9.)	SHADE TEMP.		Amount of Rainfall.	
			Dir.	Force. (0 to 12.)		Reading at 32° F. and Sea Level.	Difference from 8 a.m. yesterday.	Dry.	Wet.	Difference from 8 a.m. yesterday.	Dir.	Force. (0 to 12.)			Max.	Min.		
SCANDINAVIA.																		
Haparanda ..	30.35	36	Z	0	b	30.37	-.01	42	39	+ 4	N	2	b	*	46	28	-	
Hernösand ...	30.42	39	Z	0	b	30.39	-.03	41	38	- 3	NE	2	b	*	59	31	-	
Stockholm ...	30.29	46	NE	2	o	30.28	-.04	48	41	- 4	NE	4	b	*	70	45	-	
Wisby ...	30.18	48	E	2	b	30.20	-.06	40	38	- 11	NE	2	b	*	66	39	-	
Bodö ...	30.39	45	N	2	b	30.32	-.07	51	41	+ 2	E	2	b	1	52	39	-	
Christiansund...	30.21	57	E NE	1	b	30.19	-.09	54	48	+ 2	ESE	1	b	0	61	48	-	
Skudeenæs ...	30.17	58	E NE	3	c	30.18	-.01	61	52	+ 3	E NE	1	bc	3	66	52	-	
Christiania Fjord (Færdø)	30.21	58	NW	2	b	30.26	-.03	50	48	+ 1	N NE	5	b	1	59	?	-	
Skagen (The Sew)	30.14	52	E	2	b	30.18	-.06	52	49	+ 1	E	2	bc	1	61	50	-	
Fanø ...	30.04	59	E	4	b	30.03	-.07	57	53	- 1	E NE	5	b	*	72	50	-	
BRITISH ISLANDS.																		
Sumburgh Head	30.07	49	E NE	2	bc	30.07	-.06	50	48	+ 3	E NE	2	b	4	51	44	0.01	
Stornoway ..	29.87	57	E	2	b	29.91	+ .02	52	51	+ 1	S	1	b	2	61	41	-	
Wick ...	29.97	47	E	3	o	29.98	-.07	46	46	- 2	SE	3	f	3	50	44	0.04	
Nairn ...	29.90	49	E NE	4	o	29.98	+ .02	47	45	- 6	Z	0	om	0	59	41	-	
Aberdeen...	29.96	46	E	1	om	30.00	-.02	47	46	0	N	1	m	3	48	44	0.12	
Leith ...	29.92	46	E	1	m	29.98	+ .01	45	45	- 1	E	1	f	*	48	43	0.01	
Shields ...	29.89	48	NE	1	f	29.94	-.00	45	45	- 1	N	3	f	2	51	43	-	
Spurn Head ...	29.90	50	NE	2	b	29.90	-.02	48	47	- 1	N NE	4	b	3	51	43	-	
York ...	29.84	64	E	2	b	29.88	-.02	52	50	+ 4	N	1	b	*	70	43	-	
Loughborough	29.81	65	E NE	4	bc	29.88	-.04	50	49	- 6	NE	2	ow	*	76	48	0.13	
Ardrossan ...	29.84	57	NE	5	c	29.92	+ .05	50	49	- 3	NE	?	bcm	3	59	45	-	
Malin Head ...	29.84	49	NW	1	odg	29.90	+ .10	50	50	- 3	Z	0	of	0	59	47	0.62	
Mullaghmore ...	29.86	50	NW	4	or	29.91	+ .12	50	50	- 2	NW	2	org	2	54	48	0.45	
Belmullet ...	29.89	52	NW	2	o	29.95	+ .15	51	50	+ 1	N NE	2	c	*	53	46	-	
Donaghadee ...	29.83	52	NE	2	c	29.91	+ .04	50	49	- 2	N NE	3	bc	2	57	47	0.42	
Barrow-in-Furness	29.80	62	E	3	o	29.86	-.02	55	51	- 2	NE	2	o	*	68	52	0.75	
Liverpool (Bidston)	29.82	59	SE	3	o	29.89	+ .01	58	54	- 3	ESE	1	bc	2	71	51	0.13	
Holyhead ...	29.77	50	NW	1	clrg	29.89	+ .03	53	51	- 6	SSW	1	bc	2	62	48	0.60	
Parsonstown ...	29.83	51	NW	1	r	29.91	+ .11	49	48	- 4	Z	0	r	*	59	47	0.75	
Valencia ...	29.91	54	NW	2	bc	29.99	+ .14	54	50	+ 1	NW	1	b	1	56	47	-	
Roche's Point...	29.82	51	NW	4	c	29.91	+ .11	52	48	+ 2	N	5	bc	4	52	47	0.20	
Pembroke ...	29.75	53	SE	1	r	29.88	+ .05	49	49	- 1	N	1	c f	0	55	48	0.19	
Scilly ...	29.79	51	NW	4	o	29.89	+ .11	50	49	- 2	NW	4	c	4	53	48	0.22	
Prawle Point ...	29.82	51	SSW	3	m	29.88	+ .09	52	50	- 2	NW	3	bc	2	54	46	0.01	
Jersey ...	29.84	59	SSW	2	c	29.83	-.00	51	50	- 2	NW	3	orm	3	60	49	0.06	
Hurst Castle ...	29.82	56	WSW	3	bc	29.78	-.04	55	54	- 1	N NE	2	c	1	66	48	0.02	
Dungeness ...	29.81	57	E	3	c	29.75	-.10	56	54	+ 1	E	2	bc	1	63	48	-	
London ...	29.81	64	SE	1	bc	29.80	-.07	57	54	- 6	N	1	o	*	75	50	0.01	
Oxford ...	29.82	61	S	2	o	29.84	-.03	51	50	- 6	N	2	o	*	74	48	0.01	
Cambridge ...	29.85	68	N	1	b	29.83	-.07	59	56	+ 5	N	1	b	*	75	45	-	
Yarmouth ...	29.86	54	NE	2	b	29.84	-.07	52	51	+ 2	E NE	3	b	2	55	48	-	
Cuxhaven ...	29.97	57	E	3	b	29.97	-.16	55	53	- 1	E	3	b	*	66	54	-	
Berlin ...	29.98	67	ESE	3	b	29.98	-.09	63	58	+ 1	E	4	b	*	73	55	0.32	
Wiesbaden ...	*	*	*	*	*	29.84	-.09	61	57	0	Z	0	bc	*	75	55	0.08	
Munich ...	29.90	56	Z	0	c	29.88	-.10	54	51	- 1	NE	4	b	*	68	41	-	
FRANCE & NETHERLANDS.																		
The Helder ...	29.86	60	SSW	2	t	29.87	-.05	58	55	+ 1	E	2	bc	3	66	55	0.32	
Brussels ... 2 A.M.	*	*	*	*	*	29.79	-.10	62	57	+ 1	E NE	1	b	*	80	54	-	
Cape Gris Nez...	?	59	E NE	2	bc	?	?	51	50	- 10	E NE	2	b	2	72	50	0.16	
Paris ...	29.81	70	E NE	2	c	29.75	-.15	59	57	- 1	SE	2	b	*	75	?	0.24	
Brest ...	?	52	NW	3	o	?	?	50	48	- 3	N	2	o	3	54	43	0.12	
Lorient ...	29.86	55	N	2	o	29.87	+ .03	50	49	- 3	NW	3	o	3	57	48	0.04	
Rochefort ...	29.88	57	NW	4	o	29.92	+ .03	55	54	- 2	NW	4	c	2	63	48	0.12	
Belfort ...	29.89	69	N	1	o	29.90	-.00	64	59	0	N	1	r	*	77	48	0.08	
Lyons ...	29.80	66	S	2	bc	29.86	-.09	56	52	- 5	S	1	o	*	76	52	-	
Nice ...	29.89	61	SW	2	b	29.90	-.03	53	53	- 11	SE	2	m	1	68	52	-	
Perpignan ...	29.82	59	NE	2	r	29.91	-.02	59	53	+ 4	Z	0	c	*	71	53	0.04	
Biarritz ...	29.93	57	N	4	o	29.96	+ .15	54	52	- 4	NW	6	rg	4	63	52	0.39	
Corunna ...	*	*	*	*	*	30.09	+ .17	50	50	- 4	NW	1	r	4	57	45	0.12	
Lisbon ...	30.12	54	NW	4	b	30.11	+ .04	53	47	- 3	N	3	b	?	63	50	-	

For Explanation of Columns, see p. 4.

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

WEATHER CHARTS

for 8 a.m. on Monday, 6th May, 1889.

BAROMETER, WIND & SEA.

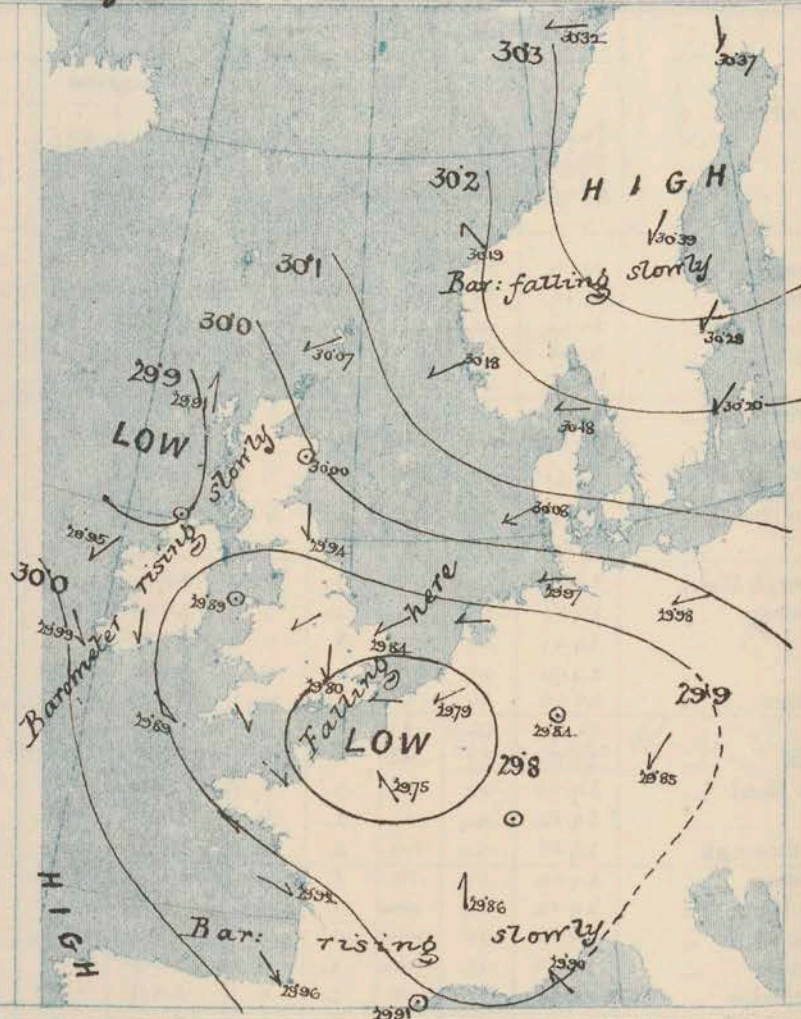
(Explanation of Map)

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



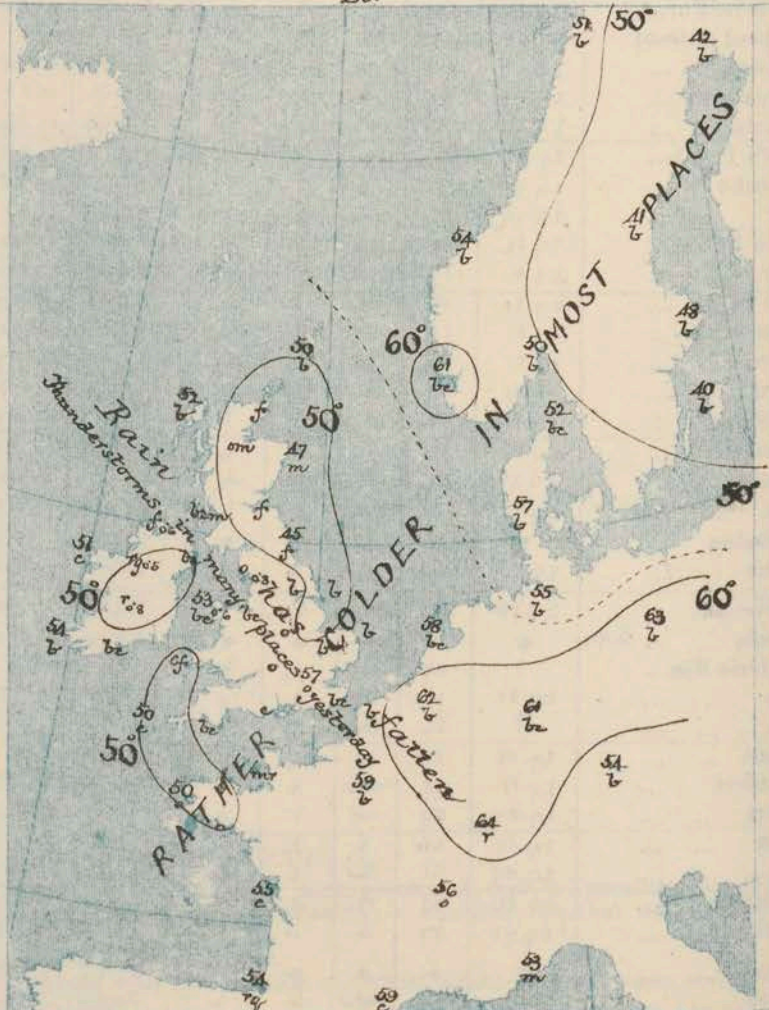
TEMPERATURE, & WEATHER at 8 A.M., with RAINFALL in PAST 24 HOURS.

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	1.66
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	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	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	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 25 years 1866 — 85.



GENERAL SITUATION AT 8 A.M.

PRESSURE	Highest, 30.2 ins: to nearly 30.4 ins: over Scandinavia and the Gulf of Bothnia — 30.0 ins: to 30.1 ins: over Spain. Lowest, 29.8 ins: and less, in a shallow depression lying over the southeast of England — 29.9 ins: and less, off our extreme northwest coasts. Variations slight and variable. Barometer rising in the west, falling slowly in the east and south.
TEMPERATURE	Highest, 64° at Belfort, 63° at Berlin, 61° at Brussels, 61° at Wiesbaden and Rudesdals, and 59° at Perpignan. Lowest, 40° at Killybegs, 41° at Housand, 42° at Haparanda, and 45° at Shields. It rose to between 70° and 76° over Central England yesterday, to 77° at Belfort, and to 80° at Brussels.
WIND	Light to moderate everywhere — NE ^{ly} over the Baltic and North Sea, E ^{ly} in Germany. N to NW ^{ly} over England and Ireland, NW ^{ly} in the west of France and in Spain. Calm in Scotland.
WEATHER	Fine and bright at nearly all the eastern stations — misty in Scotland. Bull and unsettled in the west with rain in places. Heavy rain has fallen in our islands, local showers elsewhere. Thunderstorms have occurred in most countries.
SEA	Moderate on our southernmost coasts, slight or smooth elsewhere.


PROBABLE CHANGES IN SYSTEM NOW PREVALENT


The colder and unsettled weather in the far west seems likely to spread very slowly to the English stations.

FORECASTS

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

DISTRICTS.	FORECASTS.	DISTRICTS.	FORECASTS.
0 { SCOTLAND NORTH	{ Varying SE ^{ly} airs; fine, warm.	6 { SCOTLAND WEST	{ N ^{ly} breezes, light, fair.
1 { SCOTLAND EAST		7 { ENGLAND N.W.	
2 { ENGLAND N.E.	{ Varying N ^{ly} to E ^{ly} breezes, light; fine, warm. Colder later.	8 { ENGLAND S.W.	
3 { ENGLAND EAST		9 { IRELAND NORTH	{ N ^{ly} breezes, moderate; showery to fair.
4 { MIDLAND COUNTIES		10 { IRELAND SOUTH	
5 { ENGLAND SOUTH			NONE ISSUED.
		WARNINGS	

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

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

YESTERDAY'S 2 P.M. REPORTS.

	Bar.	Dry.	Wet.	Wind.	Wca.	Sea.		Bar.	Dry.	Wet.	Wind.	Wca.	Sea.
Skudesnaes ...	30.19	66	54	E 1/2 W	C	3	Holyhead ...	29.81	52	50	NW 2	T	2
Sumburgh Head ...							Valencia ...						
Stornoway ...	29.88	59	56	S 2	C	2	Scilly ...						
Aberdeen ...							Jersey ...	29.84	58	56	S 3	C	3
Shields ...							Dungeness ...	29.82	59	57	E 1/2 W	C	3
Ardrossan ...							London ...						*
Malin Head ...	29.83	52	50	E 1	O	O	Yarmouth ...						
Mullaghmore ...							Rochefort ...	29.90	60	59	NW 3	O	2
Belmullet ...	29.89	53	50	NW 3	bc	*							

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

The reports for yesterday morning showed that pressure was highest, 30.6 ins. and upwards, over central Russia and high, 30.1 in. and upwards, over Moscow and the south of Spain. The lowest readings, 29.7 ins. and less, were found in a depression lying over and to the west of Ireland, but a shallow area of low readings, 29.9 ins. and less, was also reported over Italy. The wind was fresh from the S.W. on the west coasts of our Islands, but light from between S.E. and E. in nearly all other parts of northwestern, northern and central Europe. In Spain and Algeria, however, S.W. or S. breezes were prevalent, while in Italy the wind was N.W. or N. The weather was rainy in the west and southwest of the United Kingdom, as well as at Vienna and Naples, and dull at all the Italian stations; fog prevailed over Denmark, as well as at the mouths of the English and St. George's Channels. Elsewhere, however, the weather over Europe was generally fine. Temperature had changed rather irregularly, but at the majority of stations it had risen a few degrees; readings range from a few degrees above 60° over the Adriatic, the Mediterranean and north Germany, and 60° at Cambridge and London to 40° or less over Finland and the north of Sweden. The highest individual readings were 67° at Trieste, 66° at Brindisi, 65° at Laxia and Algiers, 64° at Lüneburg, Berlin, Leghorn and La Halle, and 62° at Florence, Barcelona and Tunis; the lowest were 34° at Haparanda, 35° at Uleaborg, 36° at Hernösand, 37° at Kuopio and Helsingfors, 45° at Skudesnaes and Skagen, 46° at Hango, St. Petersburg, Faerder and Sumburgh Head, and 47° at Bodø, Fano and Copenhagen. In the course of the day the barometer rose over the west and north of our Islands, but fell a little in the south. Solar halos were seen over the south of England in the morning, and lightning was reported in some places at night. The thermometer rose as high as 71° at Loughborough and Oxford, and 74° at Cambridge and in London.

SUMMARY OF CHANGES IN THE WEATHER OVER THE BRITISH ISLANDS AND THEIR NEIGHBOURHOOD FROM THE 28th APRIL TO THE 4th MAY 1889.

The weather of the past week has been very changeable and unsettled, with heavy falls of rain in most of our western districts, and thunderstorms in some parts of Ireland and England.

Barometrical pressure has been continuously highest over the northern and central parts of Scandinavia, but somewhat high over the south of the Iberian Peninsula. The lowest readings have been found either in the west or southwest of our Islands, and the prevailing winds have therefore been S.W. or S.E. In the course of the week three depressions of considerable size have appeared in the neighbourhood of the United Kingdom.

The first, a somewhat shallow system, advanced over Ireland on the night of the 27th April, and occasioned heavy rain in Ireland and a considerable increase of wind from the S or S.E. on our west coasts generally. On the 28th the system appears to have travelled away again over the Atlantic, but some secondary disturbances which appeared over England occasioned an extension of showery weather to all districts.

The second, a much deeper disturbance, advanced to our southwest coasts on the night of the 29th April, and produced strong winds or gales from the southeast at many of our west and southern stations. On the 30th April and 1st May the system partially filled up, and on the 2nd it passed (as a very shallow disturbance) along the Channel and across the southeast of England; its progress being attended by thunder in many parts of England.

The third depression advanced quickly to our extreme west coasts on the night of the 3rd, and occasioned moderate to fresh gales from between S. and S.E. over Ireland and the southwest of England. Heavy amounts of rain were experienced in the south of Ireland, the largest being 1.1 in. at Valencia, and 0.7 ins. at Roche's Point. On the 4th the system appears to have moved away again in a north-westerly direction to the Atlantic, but at the close of the week small shallow disturbances were beginning to approach England from the S.W.

During the early part of the period temperature remained rather low for the time of year but towards its close a steady rise took place, especially over England. On the 4th May the thermometer reached a maxima of 71° at Loughborough and Oxford, 74° at Cambridge and London.

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

STATIONS.	+ YESTERDAY EVENING.						8 A.M. TO DAY.										PAST 24 HOURS.		
	Barometer at 35° F. and Sea Level.	Temp. in Shade.	WIND.		Weather.	Reading at 33° and Sea Level.	Difference from 8 a.m. yesterday.	SHADE TEMP.		Difference from 8 a.m. yesterday.	WIND.		Sea. (0 to 9.)	SHADE TEMP.		Amount of Rainfall.			
			Dir.	Force. (0 to 12.)				Dry.	Wet.		Dir.	Force. (0 to 12.)		Max.	Min.				
SCANDINAVIA.																			
Haparanda ..	30.34	41	Z	0	C	30.32	-05	45	40	+0	NB	2	C	*	54	20	—		
Hernösand ...	30.37	42	Z	0	C	30.23	-16	48	42	+7	N	4	C	*	61	20	—		
Stockholm ...	30.21	44	N	2	C	30.18	-10	44	40	-4	NNW	4	C	*	59	34	—		
Wisby ...	30.17	38	NE	4	C	30.15	-05	39	37	-1	NNE	4	C	*	52	37	—		
Bodö ...	30.20	50	E	2	C	30.26	-06	52	44	+1	E	2	C	2	57	42	—		
Christiansund...	30.15	58	ENE	1	C	30.11	-08	54	47	0	S	1	C	0	59	46	—		
Skudesnaes ...	30.17	54	WNW	2	C	30.14	-04	56	48	-5	E	4	C	2	63	50	—		
Christiania Fjord (Færdar)	30.19	53	ENE	2	C	30.16	-10	51	48	+1	ENE	2	C	1	57	50	—		
Skagen (The Scaw)	30.12	52	NE	2	C	30.18	0.0	50	44	-2	NE	1	C	1	62	46	—		
Fanö ...	30.04	53	E	6	C	30.04	+01	51	45	-6	E	6	C	*	70	46	—		
BRITISH ISLANDS.																			
Sumburgh Head	29.06	49	SE	2	C	29.01	-06	49	46	-1	SE	2	C	5	53	42	—		
Stornoway ..	29.87	59	E	1	bc	29.74	-17	55	52	+3	SE	2	bc	2	61	45	—		
Wick ...	29.96	49	S	2	bc	29.90	-08	50	49	+4	S	2	C	2	52	45	0.02		
Nairn ...	29.84	50	Z	0	0	29.82	-16	60	56	+13	Z	0	C	1	60	42	—		
Aberdeen...	30.02	49	SE	2	C	29.93	-07	49	47	+2	ENE	2	C	2	58	41	—		
Leith ...	29.94	48	NE	1	C	29.87	-11	48	47	+3	NNE	2	om	*	52	43	—		
Shields ...	29.93	50	NE	1	C	29.85	-09	47	46	+2	E	1	om	2	51	42	—		
Spurn Head ...	29.90	50	NE	2	C	29.83	-07	51	49	+3	E	1	bc	2	54	45	—		
York ...	29.85	65	E	1	C	29.82	-06	50	50	-2	ENE	1	0	*	72	45	—		
Loughborough	29.83	69	NE	2	C	29.85	-02	50	49	0	NNE	1	om	*	75	47	—		
Ardrossan ...	29.87	63	NE	2	bc	29.78	-14	53	51	+2	NNE	5	bm	2	68	46	0.04		
Malin Head ...	29.87	52	WNW	1	bc	29.75	-15	54	53	+4	S	2	cf	0	54	48	—		
Mullaghmore ...	29.87	51	WNW	2	m	29.73	-18	57	51	+7	SE	2	C	2	57	47	0.01		
Belmullet ...	29.88	56	NNW	1	C	29.70	-25	50	47	-1	S	5	0	*	58	48	—		
Donaghadee ...	29.88	61	NNE	2	bc	29.80	-11	50	49	0	S	2	m	1	62	47	—		
GERMANY.																			
Barrow-in-Furness	29.84	67	NE	2	C	29.80	-06	57	54	+2	NE	2	C	*	71	54	—		
Liverpool (Bidston)	29.86	53	W	2	C	29.80	-09	60	55	+2	SE	2	C	2	63	48	—		
Holyhead ...	29.88	51	NW	1	bc	29.79	-10	51	50	-2	SEW	1	fw	1	57	45	—		
Parsonstown ...	29.79	58	Z	0	0	29.77	-14	54	50	+5	Z	0	bc	*	53	41	0.01		
Valencia ...	29.92	54	WNW	2	C	29.76	-22	57	50	-3	SE	5	rm	5	59	46	0.12		
Roche's Point...	29.90	58	NW	2	C	29.81	-10	51	48	-1	WNW	2	bc	4	61	44	—		
Pembroke ...	29.87	48	NW	2	C	29.81	-07	49	49	0	WNW	1	F	4	54	40	0.01		
Scilly ...	29.89	52	WNW	5	bc	29.85	-04	50	48	0	WNW	4	C	4	52	48	—		
Prawle Point ...	29.82	59	WNW	1	C	29.81	-07	55	54	+2	Z	0	om	1	64	50	0.01		
Jersey ...	29.81	51	WNW	2	0	29.86	+02	57	50	0	SW	2	of	2	52	50	0.20		
Hurst Castle ...	29.77	57	ENE	2	C	29.81	+02	52	52	-2	S	2	m	1	70	52	0.04		
Dungeness ...	29.74	58	E	2	C	29.82	+07	50	50	-6	SW	2	F	2	61	48	0.15		
London ...	29.79	68	SE	2	bc	29.81	+01	62	58	+5	E	1	bc	*	75	52	—		
Oxford ...	29.81	63	NE	2	C	29.82	-02	54	53	+2	NNE	1	0	*	74	51	—		
Cambridge ...	29.81	67	E	1	C	29.83	0.0	54	53	-5	N	1	C	*	77	45	—		
Yarmouth ...	29.83	54	NE	2	C	29.83	-01	54	52	+2	Z	0	C	2	56	48	—		
Cuxhaven ...	29.95	33	E	2	C	29.96	-01	54	52	-1	E	5	C	*	66	52	—		
Berlin ...	29.92	65	E	5	C	29.99	+07	56	52	-7	ENE	2	C	*	77	54	—		
Wiesbaden ...	*	*	*	*	*	29.89	+08	59	53	-2	NE	1	C	*	75	50	—		
Munich ...	29.84	58	NE	2	bc	29.92	+08	53	52	+1	NW	4	C	*	66	46	—		
FRANCE & NETHERLANDS.																			
The Helder ...	29.85	61	ENE	2	C	29.87	0.0	60	57	+2	ENE	1	C	2	64	57	—		
Brussels ...	*	*	*	*	*	29.88	+09	58	54	-4	SW	2	bc	*	76	57	0.04		
Cape Gris Nez...	?	59	S	2	C	?	?	51	50	0	SW	2	C	2	62	48	0.35		
Paris ...	29.84	59	SW	2	C	29.94	+19	51	49	-8	SW	2	bc	*	47	—	—		
Brest ...	30.00	50	NW	4	0	?	?	57	50	+1	NW	2	0	2	54	46	0.08		
Lorient ...	29.89	52	NW	4	0	29.89	+02	57	50	+1	WNW	2	0	4	54	48	0.08		
Rochefort ...	29.94	56	WNW	4	bc	30.02	+10	53	52	0	NW	2	bc	2	61	46	—		
Belfort ...	29.89	64	W	1	0	29.89	-01	58	57	-4	W	1	0	*	?	50	0.22		
Lyons ...	29.88	56	W	1	0	29.93	+07	54	51	-2	N	1	0	*	68	50	0.04		
Nice ...	29.88	53	SW	5	C	29.92	+02	54	53	+1	ENE	2	0	1	63	52	—		
Perpignan ...	29.87	63	NW	2	0	29.92	+01	58	53	-1	NW	2	0	*	70	52	—		
Biarritz ...	29.97	52	W	5	0	29.98	+02	50	48	-4	SW	2	F	1	57	46	0.04		
Corunna ...	*	*	*	*	*	?	?	?	?	?	?	?	?	?	?	?	?		
Lisbon ...	30.08	54	WNW	2	C	30.06	-02	52	48	-1	Z	0	bc	2	61	48	—		

WEATHER CHARTS

for 8 a.m. on

Tuesday, 7th May,

1889.

BAROMETER, WIND & SEA.

(Explanation of Map)

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

Sea Disturbance — where considerable, is shown thus.

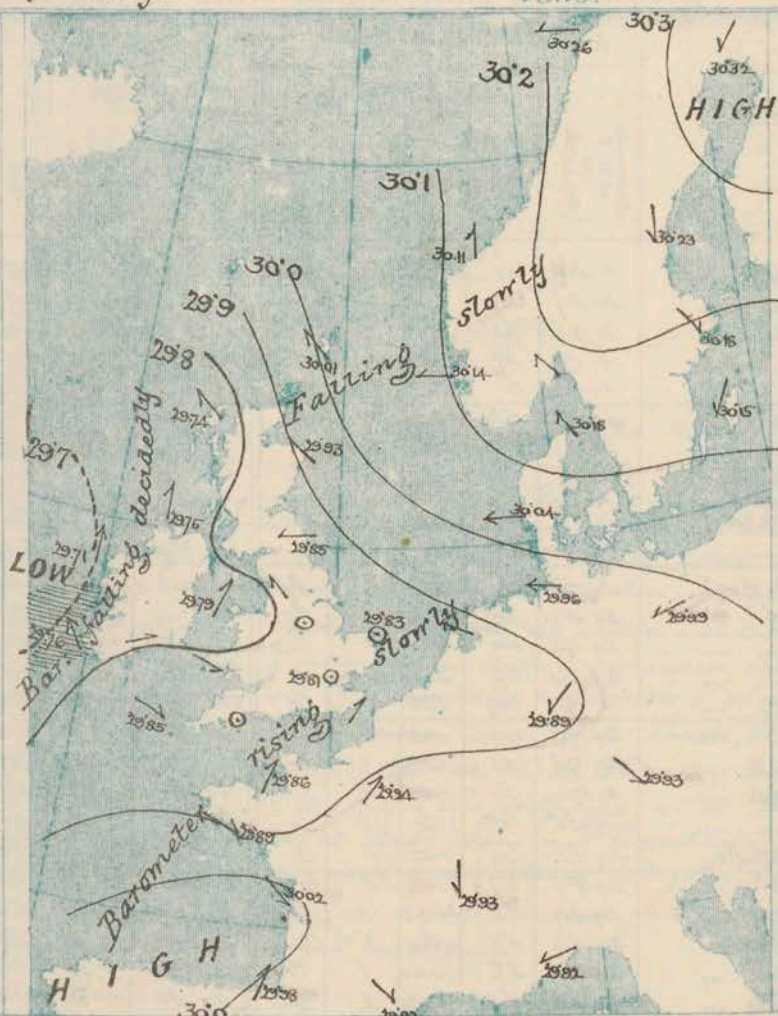
— = Rough. — = High.

MEAN HEIGHT of the BAROMETER

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

During the 16 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.

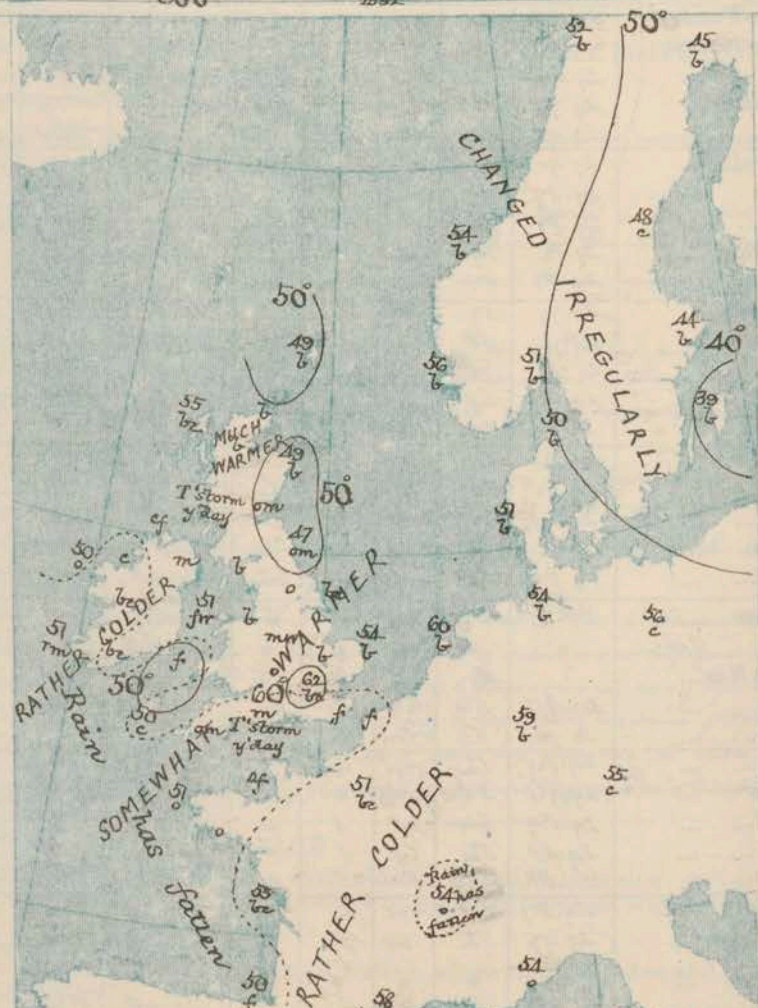
MEANS OF TEMPERATURE IN SHADE.

AND RAINFALL.

for the month of May.

STATIONS.	TEMPERATURE.				RAINFALL. (Inches).
	Daily Max.	Daily Min.	at 3 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	43.2	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	40.1	50.3	47.8	1.88
Liverpool	57.5	44.7	50.6	46.8	1.74
Parsonstown	59.3	43.3	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	2.05
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	56.3	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	44.3	50.5	48.0	1.85

NOTE — The Temperature means are for the 16 years 1871—88, the Rainfall means are mainly those for the 30 years 1866—85.



GENERAL SITUATION AT 8 A.M.

PRESSURE

Highest, 30.1 in: to 30.3 in: over Norway and Sweden, 30.0 in: and more over the Spanish Peninsula.
Lowest, 29.7 in: and less, off the west of Ireland, 29.5 in: and less, in a "hollow" over the southeast of England, Belgium and Holland.
Gradients moderate in Scotland, slight elsewhere. Barometer falling in the west, and fall spreading eastwards.

TEMPERATURE

Highest, 62° in London, 60° at Liverpool, Naim, and the Helder, 59° at Mirkaden, and 58° at Reepinau.
Lowest, 53° at Nisby, 44° at Stockholm, 47° at Shields, 48° to 50° in the east of Scotland.
It rose to between 72° and 77° over the central and eastern parts of England yesterday.

WIND

Light to moderate — from between N. and E. over Sweden, Norway and Denmark, from S.E. in Scotland — from the S. in Ireland.
Elsewhere it is very light and variable.

WEATHER

Fine at all the eastern and north-eastern stations, cloudy and variable elsewhere.
Foggy in both the Irish and English Channels, rainy at Valencia.
Rain fell yesterday in the west and south; thunderstorms occurred in several places.

SEA

Rather rough at Valencia, moderate on our southern coast generally, slight to very smooth elsewhere.

PROBABLE CHANGES IN SYSTEM NOW PREVALENT

No general change of importance is indicated, but local thunderstorms in various districts are still likely.

FORECASTS

For the 24 hours ending at NOON on 8th MAY 1889.

DISTRICTS.

FORECASTS.

- | | | |
|---|------------------|--|
| 0 | SCOTLAND NORTH | SE ² winds, freshening; fine and warm then less fair, perhaps rainy. |
| 1 | SCOTLAND EAST | |
| 2 | ENGLAND N.E. | Very variable light winds, less fair and warm than of late, thunderstorms locally. |
| 3 | ENGLAND EAST | |
| 4 | MIDLAND COUNTIES | |
| 5 | ENGLAND SOUTH | |


DISTRICTS.


FORECASTS.

- | | | |
|----|---------------|---|
| 6 | SCOTLAND WEST | S ² winds, moderate, rain at times, unsettled. |
| 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.	Dry.	Wet.	Wind.	Woa.	Sea.		Bar.	Dry.	Wet.	Wind.	Woa.	Sea.
Skudesnaes ...	30.17	62	55	WNW 2	b	2	Holyhead ...	29.70	53	52	NW 1	b	1
Sumburgh Head ...	30.28	51	49	ESE 2	b	5	Valencia ...	29.98	57	52	W 4	cm	2
Stornoway ...	29.90	60	56	S 1	b	2	Scilly ...	29.87	52	50	NW 4	bc	4
Aberdeen ...	30.02	49	48	SE 2	bc	2	Jersey ...	29.81	51	50	NW 2	o	2
Shields ...	29.96	49	47	N 2	c	2	Dungeness ...	29.74	60	58	E 4	bc	2
Ardrossan ...	29.88	68	63	NE 4	cm	2	London ...	29.79	72	60	E 2	b	*
Malin Head ...	29.89	52	51	E 2	b	1	Yarmouth ...	29.85	56	53	NE 2	b	2
Mullaghmore ...	29.90	53	54	WNW 2	c	2	Rochefort ...	29.92	60	58	WNW 5	c	2
Belmullet ...	29.94	57	54	W 1	o	*							

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

Continental Information not yet received.

General Remarks on the Weather over Europe for 24 hours ended at 8 a.m. May 6th 1889.

The reports for Sunday morning showed that pressure was inclined to give way a little over Central Russia and Italy, but was recovering slightly over the western parts of the British Isles, and that readings varied from between 30.2 ins. and 30.5 ins. over Northern and Eastern Europe, and from 30.0 ins. and more over the southern half of Spain and the whole of Algeria, to 29.8 ins. and less, in two shallow depressions lying over the western parts of the United Kingdom and in another one lying over Italy, and to 29.9 ins. and less, in a very shallow secondary ^{system} lying over the northeast of France. Thus, while the wind over northern and eastern Europe was light and mainly E^{ly}, it was W^{ly} over Spain, and extremely variable elsewhere. The weather in the western parts of the British Islands and France was dull, rainy and thundery. Over the remainder of the Continent it was fair and quiet and in many places bright. Temperature at 8 a.m. varied from rather below 40° in the extreme north of Europe, and from very little above 45° on our own northeastern coasts, to upwards of 50° at our western and southernmost stations and in Portugal, and to upwards of 60° in London, Berlin, and at several of the French and Mediterranean stations. The highest individual values were 63° at La Caille and Trieste, 62° at Algiers, 65° at Brindisi and Toulon, 64° at Cagliari, Nice and Belfort, 63° in London, 62° at Berlin, and 60° at Paris, Kiev and Kharkov; the lowest were 37° at Uleaborg, 38° at Haparanda, 44° at Helsingfors, 46° at Shields and Leth, 47° at Aberdeen and Sumburgh Head, 48° at Wick and 50° at Yarmouth.

Late in the day a great deal of rain fell in Ireland, thunder and lightning occurred in many parts of our Islands and France, but, in fine weather, the thermometer rose to between 70° and 76° in many parts of England.

NOTE. The General Remarks on the Weather over Europe inserted in yesterday's Daily Weather Report referred to Saturday and should have been inserted in the Report of Sunday — The Continental Information for Sunday had not arrived when yesterday's report was prepared.

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 8TH MAY. 1889.
Issued by the Meteorological Office, 63 Victoria Street, London. R. H. SCOTT, Secretary.

STATIONS.	+ YESTERDAY EVENING.					8 A.M. TO DAY.										PAST 24 HOURS.		
	Barometer at 32° F. and Sea Level.	Temp. in Shade.	WIND.		Weather.	BAROMETER.		SHADE TEMP.			WIND.		Weather.	Sea. (0 to 9.)	SHADE TEMP.		Amount of Rainfall.	
			Dir.	Force. (0 to 12.)		Reading at 8° F. and Sea Level.	Difference from 8 a.m. yesterday.	Dry.	Wet.	Difference from 8 a.m. yesterday.	Dir.	Force. (0 to 12.)			Max.	Min.		
SCANDINAVIA.																		
Haparanda ..	29.25	44	NE	4	0	29.32	0.0	47	41	+2	E	2	C	*	50	30	—	
Hernösand ...	29.87	39	NE	4	2	29.17	-1.06	35	35	-13	E	4	C	*	54	35	0.32	
Stockholm ...	29.10	41	W	2	0	29.10	-0.08	?	?	?	SE	2	0	*	52	36	—	
Wisby ...	29.13	40	W	4	0	29.15	0.0	44	40	+5	W	4	C	*	52	34	—	
Bodö ...	29.26	50	ESE	2	0	29.21	-0.05	53	50	+7	ESE	4	C	2	53	45	—	
Christiansund...	29.04	54	W	1	0	29.01	-1.10	49	46	-5	NE	4	C	1	53	45	—	
Skudesnaes ...	29.06	49	SW	1	0	29.99	-1.15	53	45	-3	E	4	C	4	54	45	—	
Christiania Fjord (Færdar)	29.06	52	W	3	0	29.00	-1.16	51	46	0	W	5	C	2	53	50	—	
Skagen (The Scaw)	29.06	51	NNE	1	0	29.23	-1.15	50	46	0	SW	1	C	1	53	41	—	
Fanö ...	29.00	49	ESE	6	0	29.95	-0.09	50	46	-1	ESE	6	C	*	53	43	—	
BRITISH ISLANDS.																		
Sumburgh Head	29.91	48	SE	4	0	29.83	-1.18	49	46	0	SE	3	C	5	51	43	—	
Stornoway ...	29.68	57	2	0	0	29.66	-0.08	51	51	-4	S	2	C	2	67	49	0.40	
Wick ...	29.76	47	S	4	0	29.73	-1.17	47	47	-3	S	4	C	4	53	44	0.05	
Nairn ...	29.68	56	2	0	0	29.68	-1.14	48	47	-12	2	0	C	1	73	47	0.03	
Aberdeen...	29.82	47	SE	3	0	29.76	-1.17	46	46	-3	E	1	C	3	52	45	0.01	
Leith ...	29.76	49	ESE	3	0	29.72	-1.15	45	45	-3	NE	1	C	*	51	44	0.10	
Shields ...	29.76	48	E	1	0	29.72	-1.13	48	47	+1	2	0	C	2	51	44	—	
Spurn Head ...	29.75	52	ESE	2	0	29.77	-0.06	53	52	+2	S	4	C	3	54	48	—	
York ...	29.73	61	ESE	1	0	29.71	-1.11	52	52	+2	W	1	C	*	73	49	0.01	
Loughborough	29.75	65	E	2	0	29.80	-0.05	51	50	+1	SW	2	C	*	75	49	0.03	
Ardrossan ...	29.69	57	NE	4	0	29.70	-0.08	51	51	-2	2	0	C	0	64	43	0.38	
Malin Head ...	29.68	57	2	0	0	29.64	-1.11	51	48	-3	SE	3	C	1	60	49	—	
Mullaghmore ...	29.67	53	W	4	0	29.59	-1.14	51	47	-6	SE	5	C	3	53	48	0.07	
Belmullet ...	29.64	53	SW	3	0	29.56	-1.14	49	48	-1	SE	3	C	*	53	48	0.38	
Donaghadee ...	29.71	58	W	2	0	29.70	-1.10	49	49	-1	SW	2	C	0	60	47	0.02	
Barrow-in-Furness	29.73	53	W	3	0	29.75	-0.05	49	48	-1	SW	2	C	*	69	48	0.33	
Liverpool (Bidston)	29.74	51	W	1	0	29.77	-0.03	50	48	-10	SE	2	C	3	71	47	0.40	
Holyhead ...	29.74	50	SW	4	0	29.73	-0.06	51	49	0	S	2	C	2	54	48	0.01	
Parsonstown ...	29.71	53	2	0	0	29.60	-1.17	51	48	-3	ESE	2	C	*	53	48	0.05	
Valencia ...	29.67	52	SE	4	0	29.59	-1.17	49	48	-2	W	1	C	1	52	47	1.04	
Roche's Point...	29.73	52	S	4	0	29.62	-1.19	52	50	+1	SW	3	C	4	54	48	0.25	
Pembroke ...	29.80	49	W	2	0	29.74	-0.07	49	48	0	SE	4	C	3	53	48	—	
Scilly ...	29.81	53	SW	4	0	29.68	-1.17	50	50	0	S	5	C	5	53	48	0.04	
Prawle Point ...	29.82	49	W	3	0	29.83	+0.02	49	48	-6	S	4	C	3	53	46	0.06	
Jersey ...	29.88	57	W	3	0	29.88	+0.02	54	50	+3	SW	3	C	3	54	48	—	
Hurst Castle ...	29.80	50	SW	1	0	29.88	+0.07	53	52	+1	SW	4	C	1	57	49	0.02	
Dungeness ...	29.80	52	SW	3	0	29.88	+0.06	50	49	0	SW	4	C	3	57	48	—	
London ...	29.80	50	S	2	0	29.87	+0.06	53	49	-9	S	2	C	*	65	50	—	
Oxford ...	29.79	56	S	3	0	29.86	+0.07	52	49	-2	S	2	C	*	69	46	0.28	
Cambridge ...	29.77	58	S	2	0	29.86	+0.09	54	51	0	S	1	C	*	74	49	—	
Yarmouth ...	29.82	53	SE	4	0	29.84	+0.01	52	51	-2	SW	4	C	3	57	49	—	
Cuxhaven ...	29.95	54	E	4	0	29.95	-0.01	50	49	-4	ESE	3	C	*	61	50	—	
Berlin ...	29.96	63	NNE	4	0	29.00	+0.01	57	51	+1	ESE	3	C	*	72	50	—	
Wiesbaden ...	*	*	*	*	*	29.92	+0.03	59	56	0	W	1	C	*	73	59	0.12	
Munich ...	29.93	57	2	0	0	29.97	+0.04	58	52	+3	E	1	C	*	66	45	—	
FRANCE & NETHERLANDS.																		
The Helder ...	29.87	58	W	1	0	29.89	+0.02	56	54	-4	SE	1	C	1	68	54	—	
Brussels ...	29.87	*	*	*	*	29.94	+0.06	58	52	0	W	3	C	*	68	53	—	
Cape Gris Nez...	?	54	SW	1	0	?	?	58	49	+1	S	2	C	1	53	50	—	
Paris ...	29.94	62	W	3	0	29.93	-0.01	51	50	0	2	0	C	*	67	42	—	
Brest ...	?	53	W	3	0	?	?	53	50	+2	SW	5	C	5	53	48	—	
Lorient ...	29.91	54	W	2	0	29.87	-0.02	52	50	+1	S	3	C	2	53	48	—	
Rochefort ...	29.99	58	NW	3	0	29.95	-0.07	54	51	-1	ESE	3	C	2	63	43	—	
Belfort ...	29.87	69	SW	1	0	29.92	+0.03	58	55	0	S	1	C	*	77	44	—	
Lyons ...	29.88	62	N	1	0	29.93	0.0	53	52	+1	N	2	C	*	68	51	—	
Nice ...	29.89	60	SE	3	0	29.91	-0.01	53	54	+1	E	4	C	3	66	52	0.12	
Perpignan ...	29.90	60	N	2	0	29.93	+0.01	59	54	+1	N	1	C	*	67	53	—	
Biarritz ...	29.97	53	W	1	0	29.88	-1.10	53	52	+5	2	0	C	1	59	48	—	
PENINSULAR.																		
Corunna ...	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	
Lisbon ...	29.98	56	SW	4	0	29.93	-1.10	58	57	+6	SW	3	C	2	59	?	0.04	

For Explanation of Columns, see p. 4.

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

WEATHER

CHARTS

for 8 a.m. on

Wednesday 8th MAY

1889.

BAROMETER, WIND & SEA.

(Explanation of Map)

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

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

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

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

○ = dead calm.

Sea Disturbance — where considerable, is shown thus.

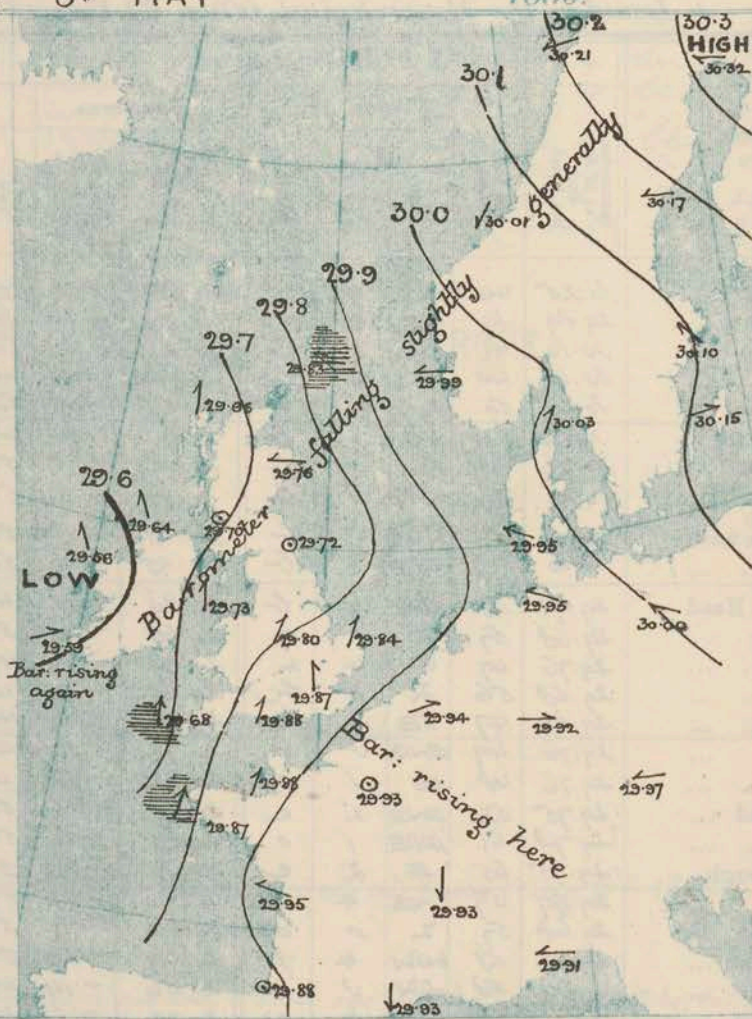
■ = Rough ■ = High.

MEAN HEIGHT of the BAROMETER

at 8 a.m. for the month of 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	29.985
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.

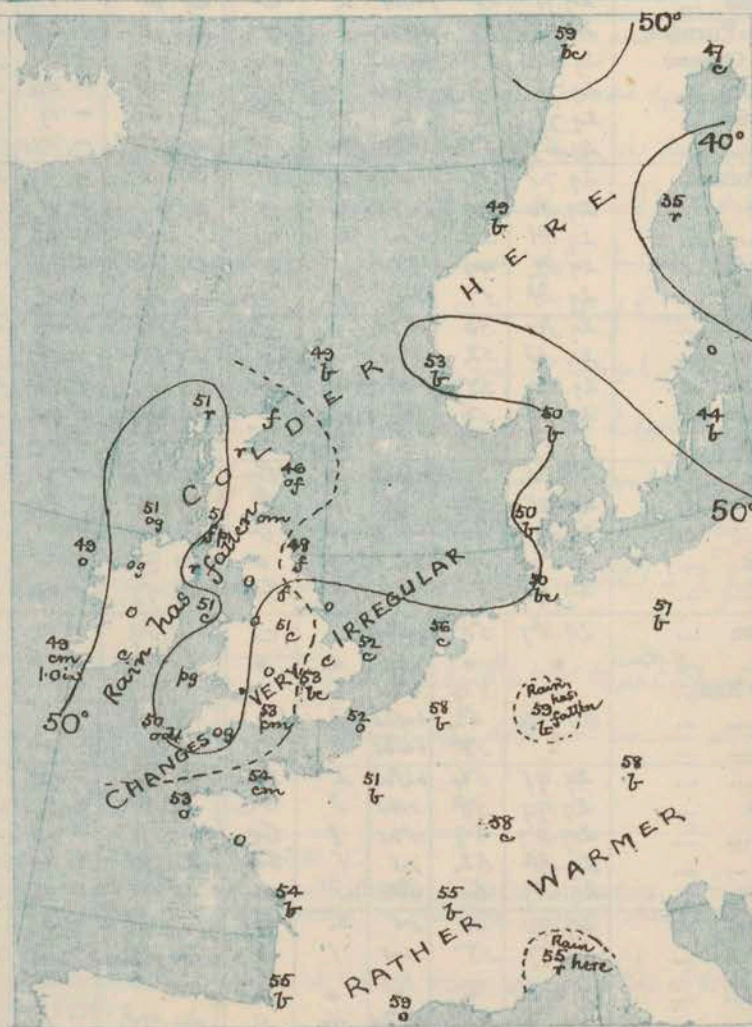
MEANS OF TEMPERATURE IN SHADE.

AND RAINFALL.

for the month of May

STATIONS	TEMPERATURE.				RAINFALL. (Inches)
	Daily Max.	Daily Min.	at Noon		
			Dry	Wet	
Sumburgh Head	50.2	39.9	45.9	43.9	1.71
Stornoway	52.3	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	41.8	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	50.8	47.8	1.88
Liverpool	57.6	44.7	50.6	46.8	1.74
Parsonstown	59.3	42.3	51.0	47.7	2.23
Valencia	68.1	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	45.8	52.8	49.2	1.77
LONDON	62.1	46.1	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, 30.0 in. to 30.3 in. over Scandinavia, the Baltic, and North Germany - 29.5 in. and more over South Germany, France and the southern part of the Spanish Peninsula.
 Lowest, 29.6 in. and less, over the west of Ireland and the adjacent parts of the Atlantic.
 Gradients slight and irregular. Barometer falling slowly, west and north, rising slightly east and south.

TEMPERATURE

Highest, 59° at Bodo, Wiesbaden, and Ratisman, 58° at Lisbon, Lyons, and Brussels, 57° at Berlin, 56° at the Helder.
 Lowest, 35° at Hunsand, 44° at Ulsby, 45° at Leith, 46° at Aberdeen, 48° at Kain.
 It rose during yesterday to 75° at Loughborough, 74° at Farnley, 73° at Kain, York and Wiesbaden and 71° at Liverpool. In London it did not exceed 65°.

WIND

Variable from the S^W (SE to SW) over the British Isles - force light to moderate.
 E to NE over Scandinavia and the Baltic - very variable over France and Germany.
 At Kain the wind is moderate from the E^W.

WEATHER

Fine and bright on the Continent, cloudy generally over our Islands - with rain at several western and northern stations, fog in the NE.
 Rain fell generally in the west yesterday.
 At some stations the fall was very heavy and in a few localities severe thunderstorms occurred.

SEA

Rather rough at Lumburgh Head and Scilly, slight or smooth elsewhere.

PROBABLE CHANGES IN SYSTEM NOW PREVALENT

Changeable weather is still likely to prevail except in the east, rain and thunder in the west.

FORECASTS

For the 24 hours ending at NOON on MAY 9TH 1889.

DISTRICTS.

FORECASTS.

0	SCOTLAND NORTH	} Varying E ⁴ to S ⁴ breezes, light; rain at times, some thunder.
7	SCOTLAND EAST	
2	ENGLAND N.E.	} SE ⁴ and S ⁴ winds, moderate; cloudy, changeable, some rain occasionally.
3	ENGLAND EAST	
4	MIDLAND COUNTIES	
5	ENGLAND SOUTH	

DISTRICTS.

FORECASTS.

6	SCOTLAND WEST	} S ⁴ winds; cloudy, rain at times
7	ENGLAND N.W.	
8	ENGLAND S.W.	} Varying SW ⁴ to SE ⁴ breezes, changeable, rain at times.
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 easter 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 easter towards S. or S.W., the South Cone is hoisted in preference to the North Cone.

YESTERDAY'S 2 P.M. REPORTS.

	Bar.	Dry.	Wet.	Wind.	Wes.	Sea.		Bar.	Dry.	Wet.	Wind.	Wes.	Sea.
Skudesnaes ...	29.12	54	45	SE 2	bc	3	Holyhead ...	29.77	51	50	SW 2	mg	2
Sumburgh Head ...	29.97	50	48	SE 3	b	5	Valencia ...	29.71	52	51	SE 6	tm	5
Stornoway ...	29.68	66	62	S 2	bc	2	Scilly ...	29.84	52	50	W 4	c	4
Aberdeen ...	29.87	49	47	ESE 3	o	3	Jersey ...	29.88	51	50	W 3	o	3
Shields ...	29.80	49	48	E 2	b	2	Dungeness ...	29.86	52	51	SW 2	f	2
Ardrossan ...	29.72	63	60	NE 3	c	2	London ...	29.81	62	56	SE 3	o	*
Malin Head ...	29.71	54	52	E 1	o	0	Yarmouth ...	29.83	53	53	SE 3	b	3
Mullaghmore ...	29.70	58	49	S 4	o	2	Rochefort ...	29.02	63	53	NW 4	bc	2
Belmullet ...	29.68	53	51	SW 4	o	*							

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

The reports for yesterday morning showed that pressure was highest, 30.3 ins. and upwards, over Lapland and northern Russia and high, 30.0 ins. and upwards, over the western parts of the Iberian Peninsula and the southern part of the Bay of Biscay. The lowest pressures 29.7 ins. and less, were found in a shallow depression lying off the west of Ireland, but another depression with readings below 29.8 ins. was lying over Tunis, while a large area with readings below 29.9 ins. lay over Austria, Poland and western Russia. The wind was NE. over Sweden, northern Russia, the Baltic and north Germany, E. over Denmark and the North Sea, and SE. in the west and north of our Islands. In the west and north of France, however, the wind varied between SW. and NW., while over central and southern Europe it was very variable. The weather was fair in nearly all the more western and central countries, as well as in the extreme north of Russia, but fog or mist was reported on many parts of our coasts. Over eastern and southern Europe, however, the sky was overcast, and at Tunis and Algiers rain was falling. Temperature had risen a few degrees in the north of our Islands, as well as at many of the Russian and Austrian stations, but fallen elsewhere; readings ranged from a few degrees above 60° over the greater part of the Mediterranean, to a little below 40° at some of the north Russian and Baltic stations. The highest individual readings were 68° at Sfax, 67° at Loughborough, 66° at Palma, 65° at Brindisi and La Caille, 64° at Legna, 63° at Nemours and Oran, and 62° at Pesaro and Florence; the lowest were 34° at Archangel and Kuopio, 39° at Hangö and Wisby, 44° at Stockholm and Swinemünde, 45° at Haparanda, 46° at Alenborg, Helsingfors and St. Petersburg, and 47° at Riga and Shields.

In the course of the day the depression to the west of Ireland spread eastward, and rain fell at most of our western and northern stations, while heavy thunderstorms were experienced in many parts of Great Britain.

General remarks on the weather during the past 24 hours ending at 8 am on May 7th 1889.

The reports for Monday morning showed the pressure was highest, 30.3 ins. and upwards, over the northern part of Scandinavia, but high, 30.1 ins. and upwards, over Portugal and somewhat high, 30.0 ins. and upwards, off the southwest of Italy. The lowest readings 29.8 ins. and less, were found in a shallow depression lying over Belgium, the southeast of England and the northeast of France, but a large trough of low pressure extended in an ESE. direction from Wisby and the St. Georges Channel across England, France and south Germany to Austria and the shores of the Black Sea. The wind was NE. over the greater part of northern and central Europe, as well as in the east of England, and NW. on the west coasts of our Islands and France, and also in Spain. In other parts of southern Europe, however, light variable breezes were reported, while in Algeria the wind was chiefly S. or SE. The weather was fine over St. Britain and the whole of northern and central Europe, but cloudy or overcast elsewhere, with rain in Ireland, and also in some parts of Spain and Algeria. Fog prevailed at some of our northern, northeastern and western stations. Temperature has fallen a little in most places and readings ranged from 60° and upwards, over the Mediterranean and Adriatic, as well as at some of the German stations to a little below 40° over Sweden and northern Russia, and a little below 40° over central Finland. The highest individual readings were 67° at La Caille, 66° at Neufahrwasser, 64° at Trieste, Florence, Leghorn, Brindisi and Barcelona, and 63° at Berlin, Legna, Cagliari, Nemours and Oran; the lowest were 34° at Kuopio, 40° at Wisby, 41° at Nemours, 42° at Haparanda, 43° at St. Petersburg, 44° at Hangö, and 45° at Helsingfors, Leith and Shields.

In the course of the day very little change occurred in the general distribution of pressure, but rain fell in the south of England, and thunderstorms were experienced in some parts of the United Kingdom.

EXPLANATION OF COLUMNS GIVEN ON PAGE 1.

WEATHER.—Beaufort Scale is b. blue sky; c. detached clouds; d. drizzling rain; f. fog; g. dark, gloomy; h. hail; l. lightning; m. misty (hazy); o. overcast; p. passing showers; q. 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

Thursday, 9th May,

1889.

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

STATIONS.	+ YESTERDAY EVENING.					3 A.M. TO DAY.										PAST 24 HOURS.		
	Barometer at 32° F. and Sea Level.	Temp. in Shade.	WIND.		Weather.	BAROMETER.		SHADE TEMP.			WIND.		Sea. (0 to 9.)	SHADE TEMP.				
			Dir.	Force. (0 to 12.)		Reading at 32° F. and Sea Level.	Difference from 8 a.m. yesterday.	Dry.	Wet.	Difference from 8 a.m. yesterday.	Dir.	Force. (0 to 12.)		Weather.	Max.	Min.	Amount of Rainfall.	
Haparanda ..	30.43	45	EHE	2	c	30.42	+10	48	41	+1	E	2	b	*	57	34	0.08	
Hernösand ...	30.31	36	Z	0	b	30.32	+15	43	42	+8	Z	0	b	*	41	34	0.20	
Stockholm ...	30.12	44	Z	0	b	30.25	+15	53	45	?	NE	2	b	*	63	37	-	
Wisby ...	30.17	39	ESE	4	b	30.17	+02	39	37	-5	N	4	b	*	52	36	-	
Bodö ...	30.28	48	EHE	4	bc	30.24	+03	54	46	-5	EHE	4	c	2	59	45	-	
Christiansund...	29.91	51	EHE	6	b	29.99	-02	51	46	+2	WSW	1	bc	1	55	43	-	
Skudesnaes ...	29.96	49	SSE	6	o	30.03	+04	51	48	-2	SSE	2	o	3	54	45	-	
Christiania Fjord (Farder)	30.04	52	SSE	3	b	30.16	+16	51	47	0	EHE	3	bc	1	52	50	-	
Skagen (The Scaw)	30.02	51	S	1	bc	30.10	+07	50	45	0	SE	1	o	1	63	48	-	
Fanö ...	29.95	53	ESE	5	c	29.98	+03	54	51	+4	ESE	5	b	*	57	46	0.08	
Sumburgh Head	29.79	45	E	3	o	29.85	+02	45	45	-4	SE	1	f	4	51	43	-	
Stornoway ..	29.67	51	Z	0	r	29.75	+09	51	51	0	S	2	o	3	52	46	0.20	
Wick ...	29.71	47	S	4	f	29.82	+09	52	50	+5	Z	0	o	2	52	45	-	
Nairn ...	29.66	57	SW	1	o	29.79	+11	51	49	+3	Z	0	o	1	59	48	0.02	
Aberdeen...	29.74	47	SSE	2	cm	29.85	+09	49	48	+3	E	1	bc m	3	51	46	-	
Leith ...	29.74	54	W	1	c	29.81	+09	54	51	+9	SE	1	m	*	57	44	0.01	
Shields ...	29.76	51	W	1	c	29.81	+09	51	49	+3	SE	1	cm	2	59	46	-	
Spurn Head ...	29.80	58	SSW	3	b	29.82	+05	53	50	0	ESE	5	bc	4	64	48	-	
York ...	29.74	61	S	2	bc	29.79	+08	56	53	+4	E	1	c	*	65	46	-	
Loughborough	29.81	60	SSE	2	c	29.77	-03	57	54	+6	SE	3	o	*	64	44	0.01	
Ardrossan ...	29.74	51	S	3	o	29.77	+07	55	53	+4	E	2	cm	2	56	48	0.10	
Malin Head ...	29.68	54	SSE	5	bc p	29.70	+06	49	49	-2	ESE	2	o f	0	56	47	-	
Mullaghmore ...	29.64	53	WSW	5	bc v	29.68	+09	50	49	-1	E	2	cm	2	59	43	0.01	
Belmullet ...	29.56	51	W	3	o	29.68	+12	52	50	+3	EHE	2	o	*	52	45	0.07	
Donaghadee ...	29.71	52	SSW	5	c	29.75	+05	49	49	0	ESE	3	m	2	55	49	0.05	
Barrow-in-Furness	29.76	54	NW	2	o	29.76	+01	53	50	+4	NE	3	r	*	68	49	-	
Liverpool (Bidston)	29.77	52	SSW	1	o	29.74	-03	52	50	+2	ESE	3	r	3	64	49	0.18	
Holyhead ...	29.75	52	S	3	og	29.68	-05	49	48	-2	EHE	5	og	4	56	49	0.08	
Parsonstown ...	29.66	55	SW	1	o	29.64	+04	49	48	-2	Z	0	r	*	61	45	0.02	
Valencia ...	29.67	54	SSE	2	bc v	29.61	+02	52	49	+3	N	2	cm	2	57	46	-	
Roche's Point...	29.68	52	SSW	4	bc	29.59	-03	49	49	-3	NNE	3	r	4	56	46	0.25	
Pembroke ...	29.73	49	SSE	5	r	29.55	-19	51	50	+2	EHE	7	r	4	51	48	0.23	
Scilly ...	29.70	51	SE	2	r	29.47	-21	51	51	+1	E	4	rm	4	55	48	0.20	
Prawle Point ...	29.79	50	ESE	3	o	29.58	-25	52	52	+3	EHE	3	rg	2	52	47	0.25	
Jersey ...	29.80	60	ESE	2	c	29.60	-28	57	54	+3	ESE	3	og	3	61	52	0.01	
Hurst Castle ...	29.84	55	SSE	3	bc	29.64	-24	61	58	+8	SE	4	cyp	1	62	51	0.02	
Dungeness ...	29.89	55	SSW	1	b	29.74	-14	56	52	+6	E	4	bc	3	59	49	-	
London ...	29.86	57	SSW	2	o	29.73	-14	64	57	+11	ESE	2	o	*	64	50	-	
Oxford ...	29.85	53	S	1	b	29.70	-15	58	55	+6	E	3	o	*	60	46	0.11	
Cambridge ...	29.84	58	S	1	c	29.77	-09	63	58	+9	SE	2	b	*	64	45	0.04	
Yarmouth ...	29.84	55	S	3	b	29.84	00	53	51	+1	SE	4	b	3	60	49	-	
Cuxhaven ...	29.91	56	ESE	2	t	29.94	-01	56	52	+6	ESE	2	m	*	62	?	-	
Berlin ...	29.95	68	Z	0	o	29.97	-03	63	57	+6	ESE	3	b	*	77	55	-	
Wiesbaden ...	*	*	*	*	*	29.89	-03	60	57	+1	NW	2	bc	*	72	54	-	
Munich ...	29.92	60	SW	4	o	29.93	-04	58	55	0	SE	2	b	*	70	52	0.08	
The Helder ...	29.94	55	NE	1	b	29.91	+02	55	54	-1	E	1	b	2	61	52	-	
Brussels ...	*	*	*	*	*	29.86	+08	56	54	-2	EHE	2	b	*	69	52	-	
Cape Gris Nez...	?	54	NE	1	b	?	?	60	54	+8	SE	4	b	3	63	50	-	
Paris ...	29.87	67	E	2	c	29.76	-17	60	56	+9	SE	2	b	*	74	?	-	
Brest ...	?	53	S	2	r	?	?	54	53	+1	SE	4	r	4	56	46	0.32	
Lorient ...	29.76	55	Z	0	o	29.51	-36	55	53	+3	ESE	4	o	4	59	52	0.04	
Rochefort ...	29.81	64	SSW	4	c	29.66	-29	59	57	+5	SE	5	r	2	81	52	-	
Belfort ...	29.88	64	NW	1	c	29.85	-07	59	55	+1	E	1	b	*	73	54	-	
Lyons ...	29.86	65	SSE	2	b	29.82	-11	58	55	+3	S	1	o	*	73	54	-	
Nice ...	29.92	62	NNE	3	o	29.86	-05	61	54	+6	EHE	4	c	0	63	?	0.12	
Perpignan ...	29.89	60	ESE	3	bc	29.77	-16	60	57	+1	SE	2	o	*	70	51	-	
Biarritz ...	29.73	72	S	4	o	29.60	-28	65	55	+10	S	3	r	1	75	?	0.08	
Corunna ...	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	
Lisbon ...	29.80	57	SSW	6	r	29.94	+01	54	51	-4	WSW	3	b	3	66	50	0.24	

1889

(Explanation of Map)

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

* \longrightarrow = forces above W_1 , \longrightarrow = forces 8 to W_1 ,
 \longrightarrow = forces 5 to 7, \longrightarrow = forces 1 to 4,
 @ = dead culm.

Sea Disturbance — where considerable, is shewn thus.

 = Rough = High

MEAN HEIGHT of the BAROMETER

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

During the 15 Years 1871 — 1885.

A hand-drawn weather map on a grid, showing isobars and weather trends. The map includes handwritten notes such as "Barometer rising", "Bar: falling slowly", and "falling decidedly". Isobars are labeled with values like 29.5, 29.6, 29.7, 29.8, 29.9, 30.0, 30.1, 30.2, 30.3, 30.4, and 30.42. A "HIGH" is marked in the upper right corner. Arrows indicate the direction of pressure changes, and a "LOW" is indicated in the lower left corner.

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.

A hand-drawn weather map of the United States, showing temperature and pressure readings, and descriptive notes. The map includes the following elements:

- Temperature Readings:**
 - 50° (multiple locations)
 - 55° (multiple locations)
 - 60° (multiple locations)
 - 65° (multiple locations)
 - 48° (top right)
 - 43° (middle right)
 - 39° (bottom right)
 - 51° (multiple locations)
 - 52° (multiple locations)
 - 53° (multiple locations)
 - 54° (multiple locations)
 - 55° (multiple locations)
 - 56° (multiple locations)
 - 57° (multiple locations)
 - 58° (multiple locations)
 - 59° (multiple locations)
 - 61° (bottom right)
- Pressure Readings:**
 - 1015
 - 1010
 - 1005
 - 1000
 - 995
 - 990
 - 985
 - 980
 - 975
 - 970
 - 965
 - 960
 - 955
 - 950
 - 945
 - 940
 - 935
 - 930
 - 925
 - 920
 - 915
 - 910
 - 905
 - 900
 - 895
 - 890
 - 885
 - 880
 - 875
 - 870
 - 865
 - 860
 - 855
 - 850
 - 845
 - 840
 - 835
 - 830
 - 825
 - 820
 - 815
 - 810
 - 805
 - 800
 - 795
 - 790
 - 785
 - 780
 - 775
 - 770
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NOTE - The Temperature means are for the 45 years 1871-85, the Rainfall means are mainly those for the 20 years 1866-85

GENERAL SITUATION AT 8 A.M.

PRESSURE	Highest 30.0 ins. to 30.4 ins. over Norway and Sweden, and 29.9 ins. and more, over Germany. Lowest 29.5 ins. and less, at the mouth of the English Channel—29.6 ins. at Biarritz. Gradients slight, especially in the East. Barometer falling west and south, rising slightly in the north and northeast.
TEMPERATURE	Highest 65° at Biarritz, 64° in London, 63° at Berlin, 61° at Hurst Castle, 60° at Paris. Lowest 39° at Whisky, 43° at Herraörsand, 45° at Lumburgh Head, 49° at Aberdeen and Malin Head, 50° at the Scaw, & 51° at Shields. It has risen decidedly over Great Britain and the northwest of Scotland since yesterday.
WIND	Light and variable from the NE ^w over Scandinavia—E ^{ly} over Germany and Holstein. SE ^{ly} & NE ^{ly} over the British Islands, S ^{ly} at Biarritz and Lyons. On the south coast of France it is E ^{ly} , moderate in force.
WEATHER	Clear over Scandinavia, Germany, the North Sea and east of France. Cloudy elsewhere, rainy in the west and southwest, with thunder and lightning locally. In London the clouds have a changeable, showery appearance, and solar and lunar halos were seen yesterday.
SEA	Moderate in St. George's Channel and at Lumburgh Head, slight or smooth elsewhere.

PROBABLE CHANGES IN SYSTEM NOW PREVALENT

The depression in the southwest seems likely to move northwards slowly, and to spread eastwards, so that changeable showery and thundery weather is likely to be experienced very generally over Ireland and England during the coming day (especially at the western stations), and in Scotland later.

FORECASTS

For the 24 hours ending at NOON on 10TH MAY 1889.

DISTRICTS.

FORECASTS.

0	SCOTLAND NORTH	SE ^{ly} breezes, moderate or light, fine and warm, doubtful later.
1	SCOTLAND EAST	
2	ENGLAND N.E.	
3	ENGLAND EAST	SE ^{ly} breezes, moderate or fresh; fine and warm, some showers later, thunder locally.
4	MIDLAND COUNTIES	
5	ENGLAND SOUTH	

DISTRICTS.

FORECASTS.

6	SCOTLAND WEST	E ^{ly} and SE ^{ly} breezes, moderate, changeable, rainy at times, thunder locally.
7	ENGLAND N.W.	
8	ENGLAND S.W.	E ^{ly} winds, unsettled, rainy, thundery
9	IRELAND NORTH	Same as No. 6. and 7.
10	IRELAND SOUTH	Same as No. 8.
WARNINGS		None Issued

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

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

YESTERDAY'S 2 P.M. REPORTS.

	Bar.	Dry.	Wet.	Wind.	Wca.	Sea.		Bar.	Dry.	Wet.	Wind.	Wca.	Sea.
Skudesnes ...	29.97	54	56	S 2	c	3	Holyhead ...	29.75	52	49	S 14	fg	3
Sumburgh Head ...	29.82	49	47	SE 8	bc	6	Valencia ...	29.64	54	50	SW 3	bc	3
Stornoway ...	29.67	51	51	Z 0	r	2	Scilly ...	29.69	54	53	S 2	o	4
Aberdeen ...	29.74	47	47	SE 2	g	3	Jersey ...	29.45	59	54	ESE 3	o	3
Shields ...	29.75	55	51	WSW 2	c	2	Dungeness ...	29.90	56	54	SSW 2	bc	2
Ardrossan ...	29.73	54	52	S 3	c	2	London ...	29.85	61	53	S 3	bc	*
Malin Head ...	29.70	55	51	SSE 14	o	1	Yarmouth ...	29.84	55	52	SSE 5	bc	3
Mullaghmore ...	29.56	57	52	ESE 5	ov	3	Rocheport ...	29.87	80	66	SE 3	bc	2
Belmullet ...	29.56	51	51	W 3	o	*							

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

The reports for yesterday morning showed that pressure was highest, 30.4 ins. and upwards, in the extreme north of Russia, and high, 30.0 ins. and upwards, over Morocco and the southern parts of Spain. The lowest readings, 29.6 ins. and less, were found in a depression lying off the west of Ireland, but another disturbance with readings below 29.7 ins. was lying between the coasts of Sardinia and Tunis, while a third system, with readings below 29.9 ins. was reported over the south of Russia. The wind was light or moderate from the S. or SE over our Islands and the western parts of France and Spain, but E. at most of the Scandinavian and Danish stations, and NE. over the Baltic, as well as in Italy and the south of France. In Algeria, however, fresh NW. breezes were reported, while over central Europe the wind was light and variable. The weather was fine over the greater part of northern and central Europe, as well as in Spain and the southeast of England. Elsewhere, however, the sky was cloudy or overcast, with fog in the north and east of Scotland and the northeast of England, and rain in the extreme northwest and southwest of our Islands, as well as in some parts of Sweden, Finland and Algeria. Temperature had risen a little over southern Europe, but fallen elsewhere, and readings ranged from 60° and upwards, at the Mediterranean stations to a little below 45° over Finland and the Baltic to a few degrees below 40° over central Sweden. The highest individual readings were 64° at Constantinople, 66° at Brindisi, Baghara, Barcelona and Sfax, 65° at Trieste, 64° at Leghorn and Naples, 63° at Florence, and 62° at Rome, Palermo and La Calle; the lowest were 35° at Hango and Hernösand, 42° at Uleaborg and St. Petersburg, 44° at Helsingfors, Riga, Stockholm and Ulsby, and 45° at Archangel, Copenhagen, Swinemunde and Leith.

In the course of the day the depression off the west of Ireland travelled N.W., but in the evening there were indications of the formation of another disturbance over the Bay of Biscay. Solar and lunar halos were seen in many parts of England.

EXPLANATION OF COLUMNS GIVEN ON PAGE 1.

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

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

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

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

DAILY WEATHER REPORT.

for *Friday, 10th May, 1889.*
 Issued by the Meteorological Office, 63 Victoria Street, London. R. H. SCOTT, Secretary.

Issued by the Meteorological Office, 53 Victoria Street, London. R. H. SCOTT, Secretary.

STATIONS.	+ YESTERDAY EVENING.						8 A.M. TO DAY.										PAST 24 HOURS.		
	Barometer at 32° F. and Sea Level.	Temp. in Shade.	WIND.		Weather.	BAROMETER.		SHADE TEMP.			WIND.		Sea. (0 to 3.)	SHADE TEMP.		Amount of Rainfall.			
			Dir.	Force. (0 to 12.)		Reading at 32° F. and Sea Level.	Difference from 8 a.m. yesterday.	Dry.	Wet.	Difference from 8 a.m. yesterday.	Dir.	Force. (0 to 12.)		Weather.	Max.		Min.		
SCANDINAVIA.																			
Haparanda ..	30.43	47	Z	0	bc	30.45	+03	46	43	-2	SE	2	b	*	59	34			
Hernösand ...	30.40	43	Z	0	b	30.40	+08	47	44	+4	E	2	b	*	63	34			
Stockholm ...	30.28	50	NNE	2	b	30.26	+01	50	47	-3	NNE	2	0	*	64	34			
Wisby ...	30.21	39	ENE	4	b	30.17	00	42	40	+3	NNE	4	c	*	50	32			
Bodö ...	30.31	51	ENE	4	c	30.23	-01	48	46	-6	E	1	b	0	55	45	0.08		
Christiansund...	30.13	53	ESE	1	c	30.26	+27	57	51	+6	ESE	2	c	1	57	43	0.12		
Skudesnaes ...	30.12	55	ESE	4	c	30.17	+14	59	50	+8	E	4	bc	4	?	46			
Christiania Fjord (Færdar)	30.21	56	ENE	3	b	30.27	+11	50	46	-1	N	3	b	1	59	50			
Skagen (The Scaw)	30.16	54	Z	0	b	30.21	+11	52	47	+2	ENE	2	b	1	68	46			
Fanö ...	30.04	53	ESE	6	b	30.06	+08	51	46	-3	E	6	b	*	68	45			
BRITISH ISLANDS.																			
Sumburgh Head	29.93	48	SE	1	0	29.99	+14	50	47	+5	ESE	3	b	5	50	43			
Stornoway ..	29.75	53	NE	4	0	29.73	-02	58	52	+2	SE	3	0	3	56	48	0.13		
Wick ...	29.88	48	S	3	0	29.88	+06	51	49	-1	S	2	bc	2	54	44			
Nairn ...	29.80	60	Z	0	c	29.77	-02	52	50	+1	ESE	2	c	1	62	47			
Aberdeen...	29.91	49	SE	2	bc	29.86	+01	52	49	+3	E	2	b	4	55	44			
Leith ...	29.80	58	SE	1	c	29.73	-08	48	48	-6	ENE	2	om	*	61	44	0.03		
Shields ...	29.51	49	E	3	c	29.71	-10	50	49	-1	ENE	2	c	2	53	46	0.04		
Spurn Head ...	29.78	52	E	6	c	29.68	-14	51	51	-2	ESE	4	r	4	55	49	0.02		
York ...	29.72	62	E	2	b	29.66	-13	56	54	0	E	2	bc	*	70	50			
Loughborough	29.67	66	E	4	0	29.72	-05	51	49	-6	WSW	1	r	*	72	50	0.15		
Ardrossan ...	29.69	61	ENE	3	0	29.64	-13	53	52	-2	NE	4	om	2	61	48	0.08		
Malin Head ...	29.62	49	ESE	4	od	29.52	-18	52	50	+3	SSE	4	og	2	54	48	0.16		
Mullaghmore ...	29.55	53	E	2	r	29.46	-22	52	49	+2	ESE	6	c	5	56	49	0.35		
Belmullet ...	29.57	51	NE	3	om	29.41	-27	52	50	0	E	4	0	*	55	50	0.13		
Donaghadee ...	29.65	53	SSE	2	r	29.63	-12	51	50	+2	ESE	3	0	2	54	48	0.52		
GERMANY.																			
Barrow-in-Furness	29.65	61	NE	4	0	29.64	-12	55	54	+2	E	4	r	*	65	53	0.23		
Liverpool (Bidston)	29.61	65	ESE	5	0	29.66	-08	50	49	-2	SE	2	r	3	67	50	0.03		
Holyhead ...	29.59	57	ESE	1	mr'g	29.63	-05	51	49	+2	SSE	3	r'g	3	60	49	0.24		
Parsonstown ...	29.50	54	Z	0	r	29.46	-18	50	48	+1	ESE	3	r	*	57	49	0.24		
Valencia ...	29.48	51	NW	5	om'g	29.38	-23	50	48	-2	WSW	4	om	5	53	48	0.34		
FRANCE & NETHERLANDS.																			
Roche's Point...	29.40	51	ESE	4	0	29.41	-18	51	50	+2	SSW	5	p	4	53	48	0.50		
Pembroke ...	29.47	54	SE	4	0	29.60	+05	50	48	-1	S	5	c	4	57	48	0.10		
Seilly ...	29.31	51	SE	4	og'mv	29.64	+17	54	51	+3	SW	5	b	5	55	48	0.01		
Prawle Point ...	29.56	51	SE	8	bc	29.73	+15	51	50	-1	SSW	5	bc	4	53	47	0.09		
Jersey ...	29.64	57	SSW	4	op'g	29.79	+19	54	51	-3	SW	4	bm	3	59	50	0.02		
Hurst Castle ...	29.64	57	S	5	c'g	29.75	+11	52	50	-9	SW	5	c	2	65	50	0.02		
Dungeness ...	29.65	56	S	3	c	29.75	+01	51	50	-5	W	4	r	3	60	50	0.37		
London ...	29.65	62	ESE	2	0	29.74	+01	51	51	-13	SW	1	r	*	74	51	0.25		
Oxford ...	29.67	60	SE	2	0	29.73	+03	51	49	-7	S	1	r	*	70	49	0.08		
Cambridge ...	29.70	69	SE	1	0	29.72	-05	51	50	-12	SW	1	0	*	72	50	0.24		
Yarmouth ...	29.74	54	E	5	bc	29.71	-13	53	52	0	SE	3	bc'm	3	56	50	0.01		
GERMANY.																			
Cuxhaven ...	29.93	59	E	4	b	29.97	+03	57	54	+1	E	5	b	*	66	53			
Berlin ...	29.96	68	ESE	3	b	29.95	-02	61	54	-2	E	4	b	*	77	54			
Wiesbaden ...	*	*	*	*	*	29.79	-10	62	56	+2	NE	2	b	*	72	54			
Munich ...	29.88	59	NE	2	c	29.81	-12	58	55	0	NE	4	b	*	68	46			
FRANCE & NETHERLANDS.																			
The Helder ...	29.77	61	E	1	b	29.80	-11	63	58	+8	ESE	3	b	3	64	55			
Brussels ... 9 AM	*	*	*	*	*	29.75	-11	63	59	+7	SSE	1	0	*	78	?			
Cape Gris Nez...	?	64	ESE	4	0	?	?	50	49	-10	WSW	2	0	2	77	50	0.08		
Paris ...	29.69	60	ENE	1	0	29.84	+08	51	50	-9	WNW	2	0	*	74	50	0.20		
Brest ...	?	53	SW	7	c	?	?	51	49	-3	SSW	4	b	6	55	46	0.47		
FRANCE & NETHERLANDS.																			
Lorient ...	29.67	54	SSW	6	bc	29.80	+29	52	49	-3	WSW	2	c	4	57	50			
Rochefort ...	29.81	55	W	4	r	29.91	+25	54	51	-5	W	3	bc	2	61	46	0.20		
Belfort ...	29.81	62	W	1	0	29.80	-05	57	57	-2	W	1	r	*	72	53	0.28		
Lyons ...	29.82	59	S	1	r	29.83	+01	50	49	-8	NW	2	r	*	67	50	0.67		
Nice ...	29.85	66	SE	2	c	29.82	-04	57	56	-4	E	2	r	0	75	55	0.04		
FRANCE & NETHERLANDS.																			
Perpignan ...	29.84	64	S	2	0	29.87	+10	57	52	-3	NW	3	0	*	?	52			
Biarritz ...	29.84	53	WSW	4	0	29.94	+34	52	48	-13	SW	3	0	3	66	50	0.32		
PENINSULA.																			
Corunna ...	*	*	*	*	*	29.84	?	56	53	?	SSW	4	0	4	59	46			
Lisbon ...	30.03	55	W	3	b	29.96	+02	56	53	+2	S	2	0	2	?	54			

For Explanation of Columns, see p. 4.

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

188.9

(Explanation of Map)

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

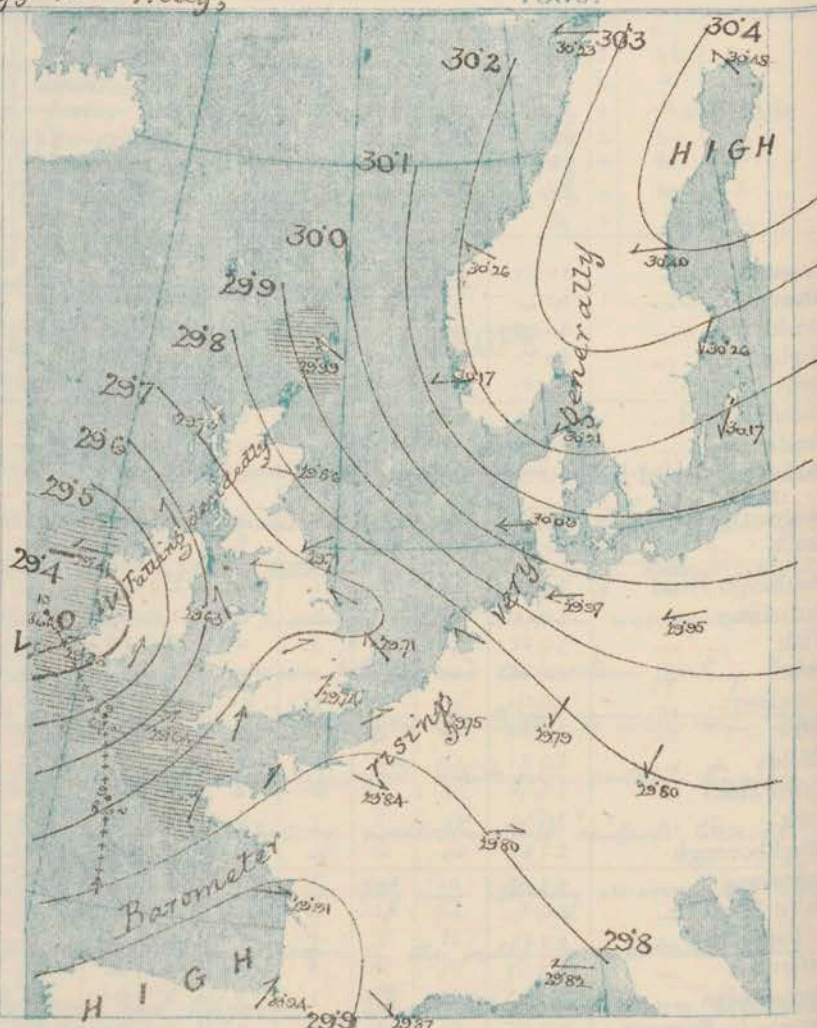
\longrightarrow = forces above \mathcal{W}_i , \longrightarrow = forces 8 to \mathcal{W}_i ,
 \longrightarrow = forces 5 to 7, \longrightarrow = forces 1 to 4.

Sea Disturbance—where considerable is shewn thus.

MEAN HEIGHT of the BAROMETER

During the 15 Years 1671—1685.

During the 10 Years 1851-1860.		1861.
STATIONS.	MEAN READINGS.	
Bamburgh 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
Ardroasan	29	949
Donaghadee	29	959
Holyhead	28	971
Liverpool	29	974
Parsonstown	29	976
Valencia	29	984
Roche's Point	29	979
Pembroke	29	977
Saillly	29	997
Jersey	30	002
Hurst Castle	29	994
Dover	29	985
LONDON	29	995
Oxford	29	993
Cambridge	29	989
Yarmouth	29	980



with RAINFALL in PAST 24 HOURS

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.

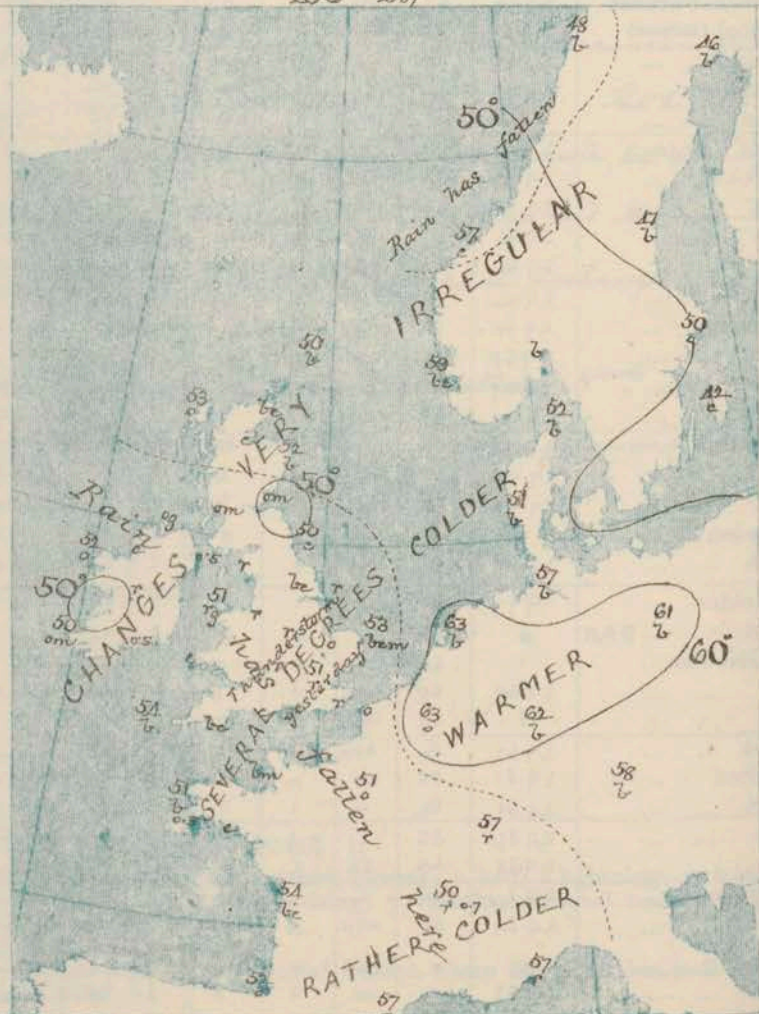
MEANS OF TEMPERATURE IN SHADE.

AND RAINFALL

for the month of May

STATIONS	TEMPERATURE.				RAINFALL. (Inches.)
	Daily Max.	Daily Min.	at 3 a.m.		
			Dry	Wet	
Sumburgh Head	50.2	38.9	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
Donsghadee	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	50.8	48.8	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	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, 30.10 in: to 30.45 in: over Scandinavia; — 29.9 in: and more over Spain and the southwest of France. Lowest, 29.4 in: and less, in a depression off the west of Ireland — and about 29.8 in: over the Gulf of Genoa. Gradients moderate in most places, slight over France. Barometer falling in the northwest and northeast of our islands, rising in most other places, but beginning to fall again at Lisbon.
TEMPERATURE	Highest, 63° at the Milder and Brunels, 62° at Wiesbaden, 61° at Berlin, 53° at St. Petersburg, 51° at Perpignan and Nice. Lowest, 42° at Ulsby, 46° at Haparanda, 47° at Helsingfors, 48° at Leith, 50° at Shields, 51° at Hamburg, 51° in London, Paris and at several stations. It rose during yesterday to between 70° and 74° over the inland parts of England to 74° at Paris, 75° at Nice, 77° at Berlin, and 78° at Brunswick.
WIND	NE ³ in Sweden, E ³ over North Germany, Norway, Denmark, Scotland, and the northern parts of Ireland and England. S ³ , fresh, on our western coast, SW ² over the Channel and south of England. SW ¹ to W ¹ over a considerable part of France. At Lisbon it has backed to S. again.
WEATHER	Fine over Scandinavia, Germany and the east of Scotland, changeable and unsettled elsewhere, with rain in many places. Thunderstorms occurred yesterday over our Southwestern and South Midland Counties. Solar and lunar halos were seen in London.
SEA	Moderate, or rather rough at the northern and western stations, slight or smooth elsewhere.

PROBABLE CHANGES IN SYSTEM NOW PREVALENT

As the depression in the west moves northwards the weather is likely to become fine and bright on our southeast and south coasts, but the fresh fall of the barometer at Lisbon appears to indicate the advance of a new disturbance which will prevent the improved weather from lasting long.

FORECASTS

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

DISTRICTS.	FORECASTS.	DISTRICTS.	FORECASTS.
0 { SCOTLAND NORTH	{ SE ² breezes, freshening; becoming showery and perhaps thundery after a warm day.	6 { SCOTLAND WEST	{ SE ² breezes, moderate; showery to fair.
1 { SCOTLAND EAST		7 { ENGLAND N. W.	
2 { ENGLAND N. E.	Wind shifting to SW ² , rain at times, perhaps thunder.	8 { ENGLAND S. W.	Same as N ^o 5.
3 { ENGLAND EAST	Same as N ^o 5.	9 { IRELAND NORTH	Same as N ^{os} 6 and 7.
4 { MIDLAND COUNTIES	Same as N ^o 2.	10 { IRELAND SOUTH	Same as N ^o 5.
5 { ENGLAND SOUTH	{ SW ⁴ to S ⁴ or SE ⁴ winds; weather improving but not permanently settled.	WARNINGS NONE ISSUED.	

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

YESTERDAY'S 2 P.M. REPORTS.

	Bar.	Dry.	Wet.	Wind.	Wes.	Sea.		Bar.	Dry.	Wet.	Wind.	Wes.	Sea.
Skudesnaes ...	30.00	53	49	SE 1	0	3	Holyhead ...	29.62	53	56	ESE 4	rgm	4
Sumburgh Head ...	29.92	47	46	SE 1	m	4	Valencia ...	29.51	52	51	NW 3	rgm	3
Stornoway ...	29.79	55	54	E 2	0	2	Scilly ...	29.38	53	51	ESE 5	cp	4
Aberdeen ...	29.89	52	50	SE 2	bc	3	Jersey ...	29.58	59	56	ASE 4	0	3
Shields ...	29.82	50	48	E 2	c	2	Dungeness ...	29.67	59	55	E 4	bc	3
Ardrossan ...	29.71	59	56	ESE 2	0	2	London ...	29.68	67	60	ASE 4	0	*
Malin Head ...	29.68	48	48	ESE 3	0	2	Yarmouth ...	29.79	56	54	E 4	b	3
Mullaghmore ...	29.62	51	50	ESE 5	OT	3	Rochefort ...	29.75	57	53	WSW 4	0	2
Belmullet ...	29.64	53	52	NE 3	T	*							

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

The reports for yesterday morning showed that pressure was still highest, 30.5 ins. and upwards, in the extreme north of Russia but relatively high 30.0 ins. and upwards over the Black Sea and also to the southward of the Iberian Peninsula. The lowest readings, 29.5 ins. and less, were found in a well defined depression which lay near the mouth of the English Channel, but another disturbance, with readings below 29.7 ins. was shown near Malta, while a very shallow system, with readings below 29.9 ins. was reported over Western Austria. The wind was light from between E and N over Sweden, the Baltic and Northern Russia as well as in Italy, and moderate from E or SE. over Denmark, the North Sea the greater part of our Islands and France. Over the Iberian Peninsula however, moderate N^W or SW^W breezes were reported, while over Central Europe the wind was very variable. The weather was fine over Northern and Central Europe and also over the eastern parts of Great Britain, but dull elsewhere, with rain in the west and south-west of our Islands, the coast of France, Central Spain, and Southern Italy. Fog or mist was reported at several of the Scotch and Irish stations. Temperature had fallen slightly in Spain and the west of our Islands, but risen elsewhere; readings ranged from a little above 65° at several of the Italian stations and a little above 60° in some parts of England and Germany to rather below 40° at some of the Baltic and North Russian stations. The highest individual reading was 66° at Florence, Leghorn, Naples, Brindisi, and Cagliari, 65° at Biannitz, 64° in London and at Legna and Rome, and 63° at Cambridge, Berlin, Barcelona and Algiers; the lowest were 37° at Archangel, 39° at Wies, 43° at Helsingfors, 45° at Copenhagen and Sumburgh Head, 48° at Haparanda, and 49° at Kuopio, Neufahrwasser, Aberdeen, Donaghadee, Holyhead, Porecstom and ^{Ratje}Relje.

In the course of the day the depression off the mouth of the Channel moved slowly northwards, while a subsidiary hollow advanced over England from the S^W. Fine weather therefore extended to nearly all parts of the United Kingdom and thunderstorms occurred at some of the English stations.

EXPLANATION OF COLUMNS GIVEN ON PAGE 1.

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

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

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

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

DAILY WEATHER REPORT.

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

STATIONS.	+ YESTERDAY EVENING.						8 A.M. TO DAY.										PAST 24 HOURS.		
	Barometer at 32° F. and Sea Level.	Temp. in Shade.	WIND.			Weather.	BAROMETER.		SHADE TEMP.			WIND.			Sea. (0 to 9.)	Weather.	SHADE TEMP.		Amount of Rainfall.
			Dir.	Force (0 to 12.)	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.)	Force (0 to 12.)			Max.	Min.	
SCANDINAVIA.																			
Haparanda ..	30.28	43	Z	0	bc		30.13	-.32	45	42	- 1	Z	0	0	*		55	37	-
Hernösand ...	30.34	45	Z	0	b		30.20	-.20	52	47	+ 5	S	2	C	*		64	36	-
Stockholm ...	30.21	52	ENE	4	b		30.14	-.12	59	49	+ 9	NE	4	b	*		64	39	-
Wisby ...	30.08	50	ENE	4	b		30.07	-.10	60	53	+ 18	E	4	b	*		59	36	-
Bodö ...	30.26	44	W	2	b		30.20	-.08	42	41	- 6	WSW	4	0	2		50	41	0.24
Christiansund...	30.21	56	NE	4	b		30.20	-.06	53	50	- 4	ENE	5	0	2		64	48	-
Skudesnaes ...	30.13	56	E	2	bc		30.09	-.08	62	52	+ 3	ENE	6	0	3		64	54	-
Christiania Fjord (Færdar)	30.15	60	E	2	b		30.11	-.16	54	50	+ 4	NEW	4	0	1		63	37	-
Skagen (The Scaw)	30.06	55	E	1	b		30.03	-.18	55	51	+ 3	E	1	0	1		63	50	-
Fanö ...	29.96	55	E	4	b		29.89	-.17	57	53	+ 6	ENE	5	0	*		64	48	-
BRITISH ISLANDS.																			
Sumburgh Head	29.94	50	ESE	3	b		30.06	+ .07	53	48	+ 3	NE	2	0	4		53	44	-
Stornoway ...	29.64	59	SE	6	C		29.91	+ .18	55	53	+ 2	SE	3	0	3		61	49	0.10
Wick ...	29.90	47	S	5	b		29.98	+ .10	52	50	+ 1	S	1	0	2		55	44	-
Nairn ...	29.79	57	ESE	3	C		29.92	+ .15	52	49	0	ESE	2	0	3		66	47	-
Aberdeen...	29.90	49	SE	4	b		29.95	+ .09	52	49	0	NE	2	0	4		54	43	-
Leith ...	29.78	52	SE	1	T		29.86	+ .13	48	47	0	E	3	0	*		60	45	0.13
Shields ...	29.79	47	ESE	2	T		29.80	+ .09	48	47	- 2	NE	3	0	3		53	45	0.23
Spurn Head ...	29.79	51	Z	0	T		29.73	+ .05	49	48	- 2	N	3	0	3		54	48	0.44
York ...	29.76	57	S	1	0		29.75	+ .09	49	47	- 7	N	1	0	*		59	47	1.50
Loughborough	29.81	57	W	1	0		29.81	+ .09	49	48	- 2	NW	2	0	*		60	48	0.19
Ardrrossan ...	29.75	52	S	2	0		29.86	+ .22	49	49	- 4	W	2	0	1		53	48	0.38
Malin Head ...	29.57	54	SE	5	0		29.85	+ .33	48	47	- 4	E	1	0	0		57	47	-
Mullaghmore ...	29.61	52	SSW	5	0		29.83	+ .37	50	47	- 2	E	4	0	2		56	45	0.01
Belmullet ...	29.59	51	SW	3	0		29.78	+ .37	51	49	- 1	SE	3	0	*		57	45	-
Donaghadee ...	29.71	52	SSW	3	C		29.87	+ .24	49	48	- 2	NE	2	0	1		53	48	0.03
Barrow-in-Furness	29.79	52	SW	3	0		29.83	+ .19	49	48	- 6	N	1	0	*		55	48	0.42
Liverpool (Bidston)	29.80	55	WSW	1	C		29.84	+ .18	49	48	- 1	NW	1	0	3		58	49	0.04
Holyhead ...	29.77	51	SSW	4	C		29.86	+ .23	47	47	- 4	WNW	1	0	1		55	45	0.01
Parsonstown ...	29.66	55	Z	0	0		29.82	+ .36	50	48	0	SE	1	0	*		58	48	0.02
Valencia ...	29.63	53	S	4	C		29.74	+ .36	52	50	+ 2	SE	4	0	4		56	49	0.21
Roche's Point...	29.71	55	SSW	5	bc		29.78	+ .37	52	50	+ 1	S	4	0	4		55	50	-
Pembroke ...	29.79	51	SSW	2	bc		29.84	+ .24	49	48	- 1	E	1	0	1		54	45	-
Scilly ...	29.76	53	SSW	4	b		29.79	+ .15	53	51	- 1	ESE	4	0	3		59	49	-
Prawle Point ...	29.83	52	WSW	3	b		29.83	+ .10	53	50	+ 2	ESE	1	0	1		55	41	-
Jersey ...	29.86	58	NW	2	b		29.83	+ .04	58	53	+ 4	ESE	2	0	2		60	45	-
Hurst Castle ...	29.84	55	WSW	4	b		29.81	+ .06	52	50	0	W	3	0	1		58	46	-
Dungeness ...	29.81	52	SW	4	0		29.75	00	51	50	0	NW	3	0	2		59	49	-
London ...	29.81	57	WSW	2	0		29.78	+ .04	52	49	+ 1	NW	1	0	*		61	48	0.03
Oxford ...	29.83	54	Z	0	0		29.81	+ .08	51	48	0	W	2	0	*		59	48	0.03
Cambridge ...	29.80	57	SW	1	0		29.75	+ .03	50	50	- 1	NW	1	0	*		61	48	0.47
Yarmouth ...	29.79	53	NW	2	OT		29.67	-.04	51	50	- 2	NW	2	0	4		56	48	0.94
Cuxhaven ...	29.88	57	E	5	b		29.82	-.15	54	53	- 3	E	5	0	*		65	52	-
Berlin ...	29.82	67	SE	3	b		29.78	-.17	63	56	+ 2	E	4	0	*		73	57	0.04
Wiesbaden ...	*	*	*	*	*		29.69	-.10	57	55	- 5	SW	1	0	*		75	55	0.35
Manich ...	29.66	62	Z	0	0		29.76	-.05	53	51	- 5	W	5	0	*		72	3	-
FRANCE & NETHERLANDS.																			
The Helder ...	29.72	63	ESE	4	C		29.67	-.13	58	54	- 5	E	3	0	3		72	57	-
Brussels ...	*	*	*	*	*		29.78	+ .03	51	50	- 12	WSW	3	0	*		65	50	0.46
Cape Gris Nez...	?	50	WSW	2	C		?	?	50	48	0	WSW	3	0	2		54	48	-
Paris ...	29.65	56	N	2	bc		29.84	-.00	49	48	- 2	S	1	0	*		62	44	-
Brost ...	?	56	SSW	2	b		?	?	51	49	0	E	3	0	4		46	46	-
Lorient ...	29.85	54	S	2	bc		29.79	-.01	50	49	- 2	E	3	0	3		59	46	-
Rocheport ...	29.92	58	W	3	b		29.84	-.07	52	50	- 2	ESE	4	0	2		64	43	-
Belfort ...	29.77	55	W	1	0		29.81	+ .01	50	49	- 7	W	1	0	*		?	?	0.32
Lyons ...	29.86	50	E	1	0		29.88	+ .05	53	50	+ 3	NW	1	0	*		54	48	0.71
Nice ...	29.78	57	Z	0	e		29.75	-.07	55	50	- 2	SW	1	0	1		64	46	-
Perpignan ...	29.87	60	SW	3	C		29.87	00	54	51	- 3	W	2	0	*		67	43	-
Biarritz ...	29.85	59	NE	3	bc		29.75	-.19	60	51	+ 8	SSW	3	0	2		63	52	-
PENINSULA.																			
Corunna ...	*	*	*	*	*		*	*	*	*	*	*	*	*	*		*	*	*
Lisbon ...	29.85	56	S	5	T		29.93	-.03	54	53	- 2	NW	1	0	?		59	54	0.39

For Explanation of Columns, see p. 4.

Received too late for insertion in Charts on p. 8

WEATHER CHARTS

For 8 a.m. on

Saturday, 11th May,

1889.

BAROMETER, WIND & SEA.

(Explanation of Map.)

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

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

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

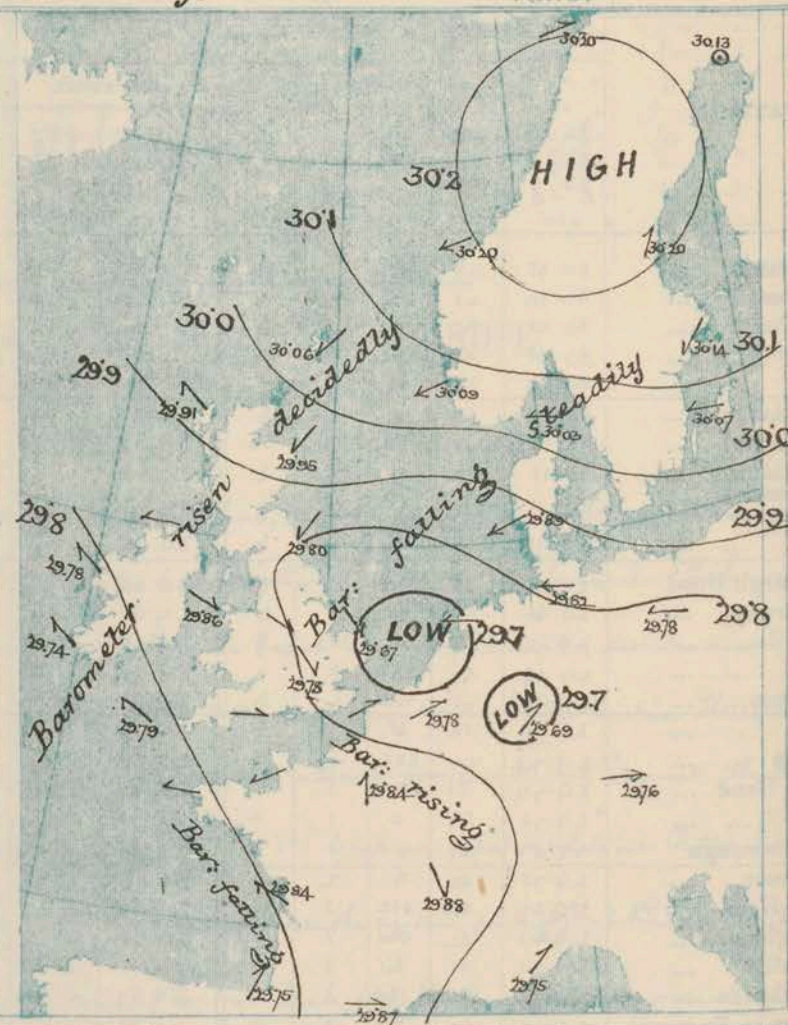
Sea Disturbance — where considerable, is shown thus.

— Rough — High.

MEAN HEIGHT of the BAROMETER

at 8 a.m. for the month of 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.

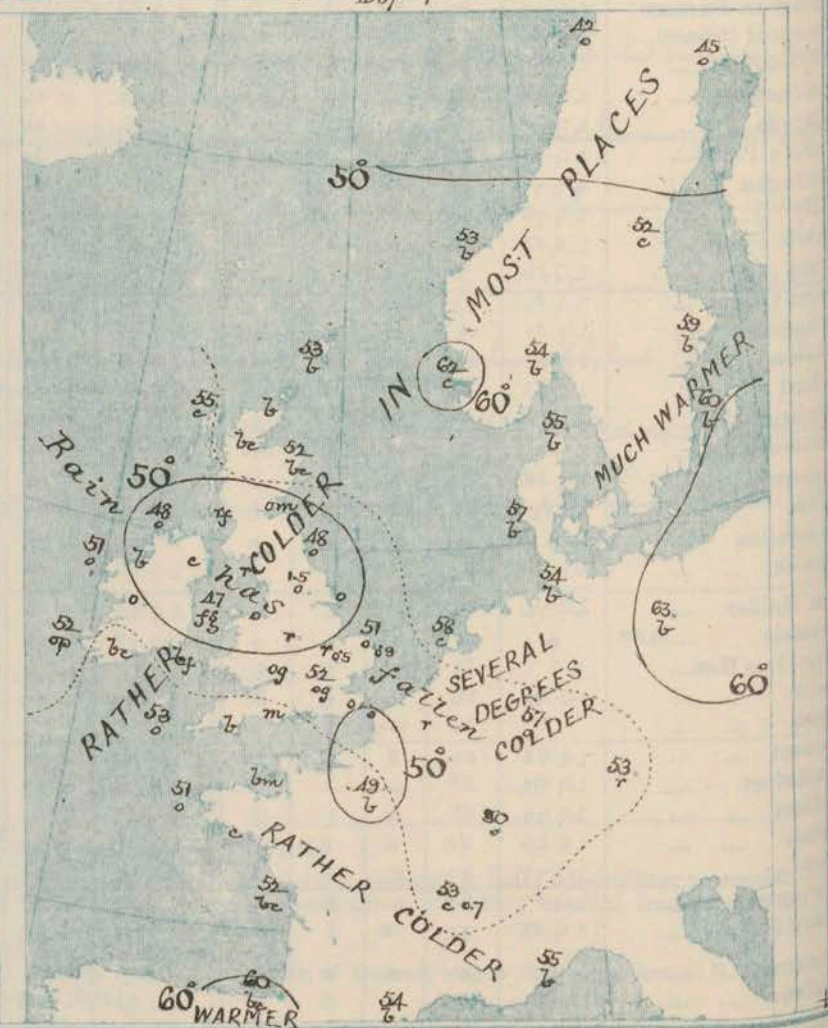
MEANS OF TEMPERATURE IN SHADE.

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	39.2	45.9	43.9	1.71
Stornoway.	52.9	40.7	48.4	48.0	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	45.8	1.90
Leith.	57.8	42.2	50.1	48.7	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	1.96
Ardrossan.	56.2	43.7	49.8	48.4	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	48.8	1.74
Parsonstown.	59.3	43.3	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
Seilly.	56.2	48.2	52.7	50.3	1.66
Jersey.	59.3	47.1	53.5	50.4	1.74
Hurst Castle.	58.3	46.3	51.8	49.7	1.70
Dover.	56.8	46.3	52.8	49.2	1.77
LONDON.	62.1	44.1	53.4	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, 30.0 in: to 30.3 in: in a large area covering the Shetlands, Scandinavia, Ireland and Finland — 29.9 in: and more over the southern half of Spain. These areas are joined by a band passing from Spain across France, England and the Irish Sea to Scotland. Lowest, 29.8 in: and less, over Switzerland, Germany, Belgium, and the east of England, below 29.7 in: in some places. Gradients moderate in the north, slight elsewhere. Barometer falling at all eastern stations, rising in west.

TEMPERATURE

Highest, 63° at Berlin, 62° at Staden, 60° at Wiesbaden and at Bielefeld, 59° at Stockholm, 58° at the Helder, 57° at Paris. Lowest, 45° at Haparanda, 47° at Holyhead, 48° at Leith and Shields, 49° at several stations in the north of England and at Paris. It is falling rather decidedly over Belgium, and less quickly at our eastern and midland stations generally.

WIND

Variable, but mainly SE² at our western stations, E² over the Bay of Biscay, as well as in Scotland and on the eastern shores of the North Sea. In England it has become N² to NW², in Belgium and the east of France it is W².

WEATHER

Cloudy, but improving on our southwestern coasts, rainy and foggy in the northwest, foggy in west — dull and rainy in places in the east and southeast. It is still fine over Scandinavia and also over Southern Europe.

SEA

Moderate at our southwestern stations and also at Yarmouth and Aberdeen, slight or smooth elsewhere.

PROBABLE CHANGES IN SYSTEM NOW PREVALENT

The colder and showery weather now prevalent in the east seems likely to become more general over Great Britain during the day.

FORECASTS

For the 24 hours ending at NOON on 12th MAY 1889.

DISTRICTS.

FORECASTS.

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

NE² and E² winds, moderate; fair to dull.

N² to NW² breezes, light; dull, cold, some rain.

NY², N², and Variable breezes, light; dull, rain in places then finer.

DISTRICTS.


FORECASTS.


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

E² to NE² or N² winds, light; fair as a whole.

WARNINGS

NONE ISSUED.

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

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

YESTERDAY'S 2 P.M. REPORTS.

	Bar.	Dry.	Wet.	Wind.	Woa.	Sea.		Bar.	Dry.	Wet.	Wind.	Woa.	Sea.
Skudesnæs ...	30.17	64	52	SSW 1	bc	2	Holyhead ...	29.70	52	52	S 4	opg	4
Sumburgh Head ...	30.00	53	48	SSW 3	b	5	Valencia ...	29.58	56	52	E 6	bc	5
Stornoway ...	29.66	59	58	SE 4	c	3	Scilly ...	29.74	58	55	S 5	b	5
Aberdeen ...	29.89	52	49	SSW 3	bc	5	Jersey ...	29.86	60	54	SW 2	b	2
Shields ...	29.75	49	48	SSW 3	r	3	Dungeness ...	29.82	54	51	W 4	c	3
Ardrossan ...	29.67	50	50	S 2	r	2	London ...	29.80	60	53	W 2	c	*
Malin Head ...	29.52	56	53	SSW 5	o	3	Yarmouth ...	29.77	55	53	W 3	c	3
Mullaghmore ...	29.49	55	51	SE 5	op	4	Rochefort ...	29.93	60	55	WSW 3	bc	2
Balmullet ...	29.42	52	50	SSW 4	o	*							

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

The reports for yesterday morning showed that pressure was still highest, 30.5 ins. and upwards, over Northern Russia, and high, 30.0 ins. and upwards over Algeria and the southern half of Spain. The lowest readings, 29.4 ins. and less, were found in a depression which had travelled from the mouth of the English Channel to the west of Ireland, but a long trough of relatively low readings (29.8 ins. and less) extended southwards from England across Belgium, Western Germany, and Switzerland to the north of Italy, while a separate area with similar readings existed over the Central parts of Italy and the Adriatic. The wind was light or moderate from the NE. over Northern Russia and the Baltic, and E. over the North Sea, Denmark, Germany, and the northern and eastern parts of the United Kingdom. Over the south of our Islands and the western parts of France and Spain, however, moderate to fresh breezes from the SW. were reported; and in Algeria light to fresh S. breezes prevailed, while over Italy and the southern parts of France and Austria calms or light variable breezes were general. The weather was fine over the greater part of Northern, Eastern, and Central Europe, as well as at some of the Algerian stations, but cloudy elsewhere, with rain in many parts of Ireland and England as well as in the extreme south of France. Temperature had risen in most of the northern countries as well as in the south of Austria, but fallen in most other localities; readings ranged from a little above 65° at some of the Mediterranean stations, and a little above 60° over Holland, Belgium, and North Germany to a little above 45° over Northern Russia and also at some of the Baltic stations. The highest individual readings were 69° at Trieste, 67° at LaFolle and Tunis, 66° at Leghorn, Naples and Thiviers, 65° at Buda Pesth and Sevin, 64° at Rome and Palermo, and 63° at Hilder, Brussels, Florence and Algiers; the lowest were 42° at Kuopio and Nisby, 44° at Archangel and Leningrude, 46° at Haparanda and Uleaborg, 47° at Helsingfors, and 48° at Bats, Copenhagen and Leith.

In the course of the day the depression off the west of Ireland travelled away northwards over the Atlantic and the weather improved somewhat on our western coasts. In the evening, however, a new disturbance began to approach the southeast of England from the Continent and heavy rain sets in over our eastern countries.

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 21s. per annum, payable in advance.

DAILY WEATHER REPORT.

for Sunday 12th MAY 1889.
Issued by the Meteorological Office, 63 Victoria Street, London. R. H. SCOTT, Secretary.

Issued by the Meteorological Office, 55, Victoria Street, London, W.1. (Printed by the Meteorological Office, 55, Victoria Street, London, W.1.)																		
STATIONS.	† YESTERDAY EVENING.					8 A.M. TO DAY.										PAST 24 HOURS.		
	Barometer at 32° F. and Sea Level.	Temp. in Shade.	WIND.		Weather.	BAROMETER.		SHADE TEMP.			WIND.		Weather.	Sea. (0 to 9.)	SHADE TEMP.		Amount of Rainfall.	
			Dir.	Force. (0 to 12.)		Reading at 32° F. and Sea Level.	Difference from 8 a.m. yesterday.	Dry.	Wet.	Difference from 8 a.m. yesterday.	Dir.	Force. (0 to 12.)			Max.	Min.		
SCANDINAVIA.																		
Haparanda ..	30.10	44	2	0	b	30.13	— .00	44	44	—	1	N	2	f	*	46	34	0.24
Hernösand ...	30.09	45	2	0	b	30.10	— .10	44	42	—	8	NNE	2	r	*	63	39	—
Stockholm ...	30.07	55	2	0	o	30.03	— .11	58	52	—	1	2	0	o	*	68	41	—
Wisby ...	30.08	52	ESE	4	b	30.02	— .05	53	48	—	7	NE	2	b	*	72	37	—
Bodö ...	30.24	42	WSW	4	o	30.26	+ .06	45	44	+	3	W	2	c	?	45	37	0.08
Christiansund...	30.16	51	NE	8	b	30.23	+ .03	50	46	—	3	NE	5	b	2	55	43	—
Skudesnaes ...	30.05	64	NNE	2	bc	30.04	— .05	63	52	+	1	ENE	4	b	2	72	54	—
Christiania Fjord	30.02	61	NNE	2	bc	30.04	— .07	56	52	+	2	N	3	b	1	63	54	—
(Færdor)																		
Skagen (The Seaw)	29.95	57	NE	1	c	29.98	— .05	57	53	+	2	E	1	b	1	68	50	—
Fanö ...	29.88	55	ENE	4	c	29.88	— .01	58	54	+	1	ENE	4	c	*	68	52	—
BRITISH ISLANDS.																		
Sumburgh Head	30.07	55	NE	2	b	30.08	+ .02	50	48	—	3	NE	4	b	5	56	43	—
Stornoway ...	29.86	62	E	4	b	30.00	+ .09	54	50	—	1	E	4	bc	3	63	42	—
Wick ...	30.00	50	E	2	b	30.08	+ .10	51	49	—	1	E	3	b	2	58	44	—
Nairn ...	29.91	62	ENE	2	bc	30.02	+ .10	50	50	—	2	ENE	1	c	1	67	45	—
Aberdeen...	29.97	49	NE	2	b	30.00	+ .05	57	52	+	5	NE	3	bc	3	58	45	0.05
Leith ...	29.89	50	E	3	c	29.94	+ .08	50	48	+	2	ENE	1	c	*	53	46	—
Shields ...	29.84	50	NE	1	c	29.87	+ .07	48	47		0	N	2	r	3	52	45	0.04
Spurn Head ...	29.73	50	NNE	3	o	29.75	+ .02	49	48		0	NE	4	o	3	52	47	0.15
York ...	29.74	57	NE	1	b	29.77	+ .02	52	51	+	3	NNE	2	o	*	60	47	0.08
Loughborough	29.78	50	WNW	3	o	29.79	— .02	50	50	+	1	NW	1	ogm	*	51	49	0.99
Ardrossan ...	29.85	50	W	1	ofr	29.92	+ .06	55	53	+	6	NE	3	cm	2	55	48	0.70
Malin Head ...	29.87	48	E	3	om	29.95	+ .10	48	48		0	2	0	of	0	51	46	—
Mullaghmore...	29.83	54	E	4	bc	29.96	+ .13	50	49		0	ESE	1	om	2	50	45	—
Belmullet ...	29.84	55	WNW	2	om	29.96	+ .18	53	50	+	2	S	2	o	*	58	46	0.04
Donaghadee ...	29.88	50	NE	2	r	29.93	+ .06	49	49		0	NNE	4	o	2	52	47	0.14
Barrow-in-Furness	29.83	49	NNW	4	o	29.84	+ .01	50	50	+	1	NNW	1	r	*	50	47	0.37
Liverpool (Bidston)	29.85	47	WNW	3	o	29.86	+ .02	48	48	—	1	WNW	3	r	3	50	47	0.53
Holyhead ...	29.87	49	NW	4	og	29.89	+ .03	48	48	+	1	NW	5	omgg	5	50	45	0.17
Parsonstown ...	29.84	58	2	0	bc	29.97	+ .15	51	48	+	1	2	0	c	*	61	43	—
Valencia ...	29.87	52	WSW	1	bc	30.00	+ .26	52	47		0	2	0	bc	1	54	40	0.34
Roche's Point...	29.80	52	S	3	c	29.98	+ .20	50	47	—	2	NW	3	b	3	54	46	—
Pembroke ...	29.86	58	NNW	2	bc	29.92	+ .08	50	49	+	1	NW	2	bur	1	55	45	—
Scilly ...	29.84	53	2	0	c	29.94	+ .15	53	51		0	NW	4	c	4	55	49	—
Prawle Point ...	29.84	55	W	2	b	29.91	+ .08	58	52	+	5	NW	3	b	2	58	47	—
Jersey ...	29.83	60	NNE	2	bm	29.91	+ .08	62	54	+	4	WNW	1	bm	1	62	47	—
Hurst Castle ...	29.82	55	W	3	bcm	29.86	+ .05	51	49	—	1	WNW	4	bc	2	60	46	—
Dungeness ...	29.78	57	NW	4	c	29.79	+ .04	50	49	—	1	W	4	o	3	58	49	—
London ...	29.80	57	WNW	1	or	29.79	+ .01	48	48	—	4	NNW	1	d	*	55	47	0.23
Oxford ...	29.83	48	NW	3	r	29.81	— .00	48	48	—	3	WNW	2	ugm	*	54	47	0.32
Cambridge ...	29.74	50	NW	1	r	29.74	— .01	50	50		0	NW	1	r	*	57	47	1.12
Yarmouth ...	29.67	57	N	2	og	29.69	+ .02	50	50	—	1	NE	2	ogm	4	53	47	0.06
Cuxhaven ...	29.80	57	E	5	c	29.82	— .00	55	54	+	1	WSW	1	r	*	64	53	0.40
Berlin ...	29.77	63	SE	1	r	29.82	+ .04	59	58	—	4	SSW	3	o	*	77	57	0.16
Wiesbaden ...	*	*	*	*	*	29.96	+ .27	55	53	—	2	SW	2	bc	*	63	52	0.04
Munich ...	29.91	52	W	4	o	30.02	+ .26	54	57	+	1	NE	2	o	*	59	48	0.04
FRANCE & NETHERLANDS.																		
The Helder ...	29.76	54	SSE	1	o	29.82	+ .15	54	57	—	4	S	1	c	2	64	52	0.08
Brussels ...	9 am	*	*	*	*	29.88	+ .10	54	50	+	3	SW	2	b	*	56	47	0.04
Cape Gris Nez...	?	57	SW	3	m	?	?	57	48	+	1	WSW	3	o	3	54	48	—
Paris ...	29.83	63	WSW	2	c	29.92	+ .08	50	48	+	1	S	1	o	*	68	44	—
Brest ...	29.92	62	NW	1	c	?	?	57	49		0	WSW	2	bc	3	?	46	—
Lorient ...	29.78	60	ESE	1	b	29.87	+ .08	63	57	+	3	ENE	2	o	4	64	48	—
Rochefort ...	29.85	63	WNW	2	c	29.94	+ .10	56	54	+	4	WSW	3	o	2	75	50	—
Belfort ...																		
Lyons ...	29.87	59	ENE	1	b	29.96	+ .08	55	50	+	2	N	1	b	*	64	45	—
Nice ...	29.82	57	SW	1	c	29.93	+ .18	56	53	+	1	E	1	c	1	66	48	—
Perpignan ...	29.85	62	SE	?	b	30.00	+ .13	58	56	+	4	WSW	1	o	*	66	50	—
Biarritz ...	29.84	61	WNW	4	c	29.98	+ .23	56	53	—	4	WNW	4	o	2	72	54	—
Corunna ...	*	*	*	*	*	30.03	+ .25	53	50	—	3	NNE	5	r	6	59	50	—
Lisbon ...	29.95	56	WNW	3	o	29.91	— .02	54	57		0	N	5	o	2	64	50	—
PENIN- SULA.																		

For Explanation of Columns, see p. 4.

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

WEATHER

CHARTS

for 8 a.m. on

Sunday, 12th May,

1889.

BAROMETER, WIND & SEA.

(Explanation of Map)

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

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

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

Sea Disturbance — where considerable is shown thus:

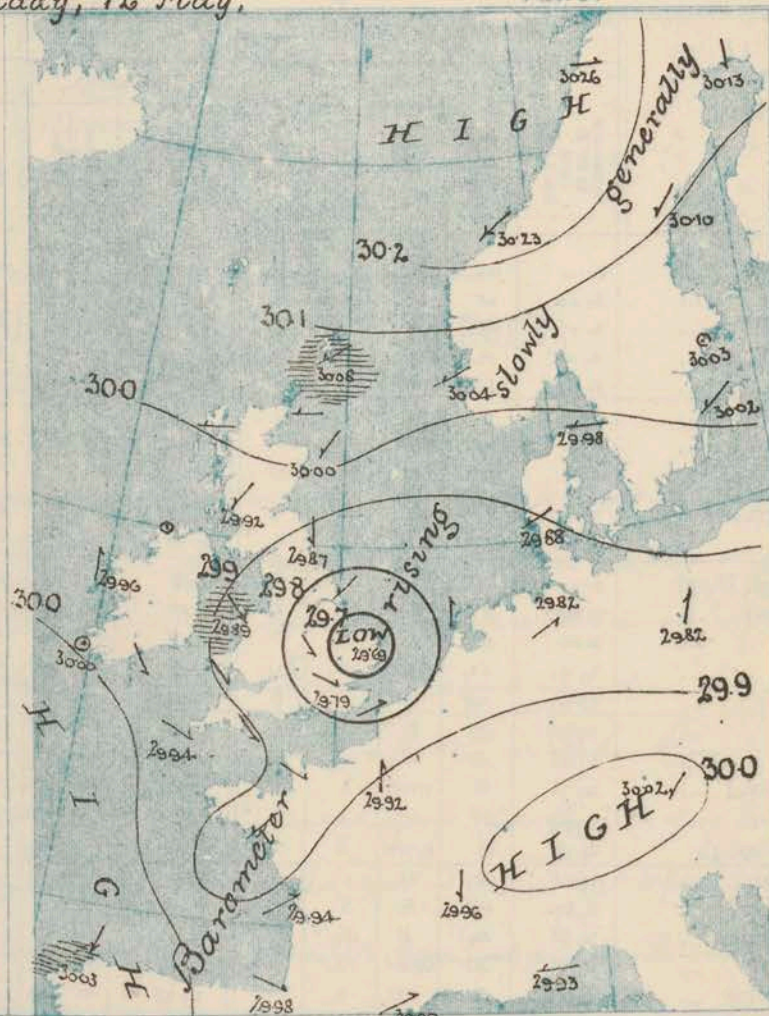
— Rough. — High.

MEAN HEIGHT of the BAROMETER

at 8 a.m. for the month of 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.

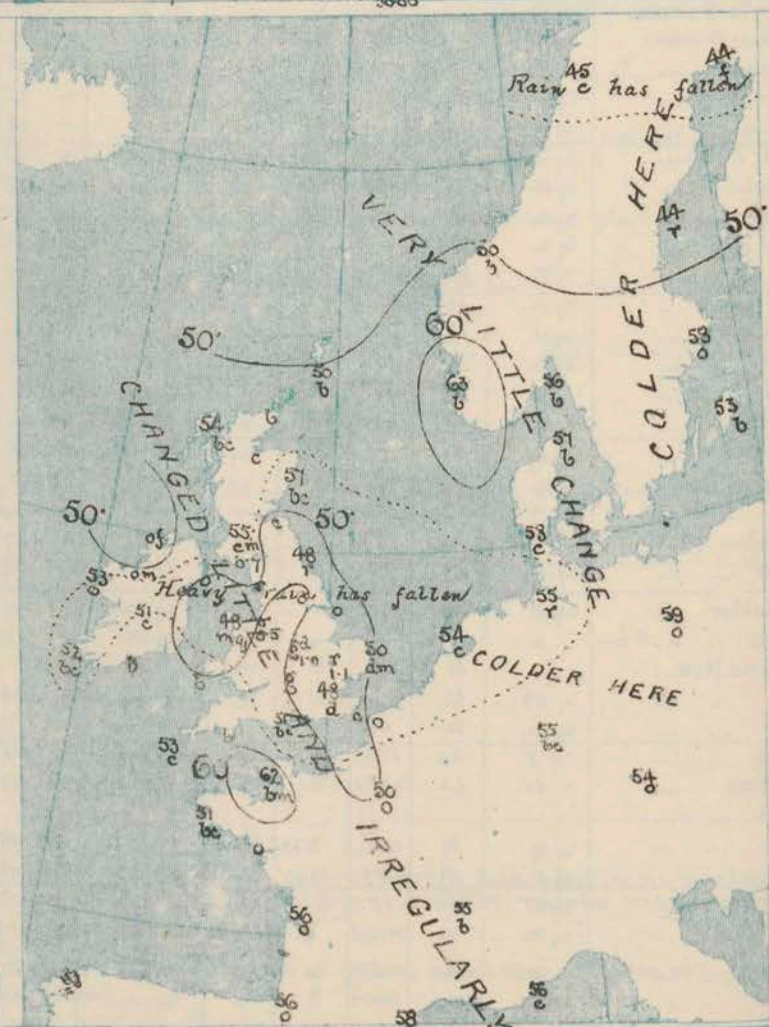
MEANS OF TEMPERATURE IN SHADE.

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	61.5	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	50.6	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	48.0	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	45.8	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, { 30.0 ins. to 30.2 ins. and more, over Scandinavia and the north of Scotland.
 { 30.0 ins. and more, in the extreme southwest of Ireland and the north of Spain.
Lowest, { 29.9 ins. and less, over nearly the whole of England, the north of France, Holland, and North Germany.
 { 29.8 ins. and less, over the whole of our eastern coasts, and 29.6 ins. at Harwich.
Gradient, moderate in the north and east, for E. winds, slight in the south for W. and variable winds. Barometer rising in most places, chiefly in west and southwest.

TEMPERATURE

Highest, 63° at Shudecote, 62° at Faversham, 58° at Farnham and Craze Point, 57° at Aberdeen and the Lizard.
Lowest, 44° at Haparanda and Henningsand, 45° at Bodø, 48° at Malin Head, Holyhead, Oxford, London, and Shields, 49° at Green Hit, 50° at Penzance, Paris and Harwich.
 It was changing very irregularly in most places, and had not been above 55° in London, 52° at Shields, and 50° at Holyhead during the previous 24 hours.

WIND

Light to moderate from E. or NE. over the Baltic, North Sea, and northern parts of our islands, NW. over the west and south of England -
 N. in Spain and Portugal - SW. in the Netherlands and North Germany.

WEATHER

Fine as a whole in the northern countries and on our southwestern coast, dull and changeable in most other places with a great deal of rain in some parts of England and Holland.

SEA

Rather rough at Sunning Head and Holyhead, moderate to smooth elsewhere.

PROBABLE CHANGES IN SYSTEM NOW PREVALENT

There was no indication of any important change.

FORECASTS

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

DISTRICTS.

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

FORECASTS.

NONE ISSUED

DISTRICTS.

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

WARNINGS

FORECASTS.

NONE ISSUED.

NONE ISSUED.

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

YESTERDAY'S 2 P.M. REPORTS.

	Bar.	Dry.	Wet.	Wind.	Wca.	Sea.		Bar.	Dry.	Wet.	Wind.	Wca.	Sea.
Skudesnaes ...	30.05	72	58	ENE 4	c	3	Holyhead ...	29.86	48	47	NN 1	fg	1
Sumburgh Head ...	30.07	55	50	NE 2	b	4	Valencia ...	29.82	50	48	Z 0	ov	1
Stornoway ...	29.87	61	58	E 3	b	3	Scilly ...	29.82	53	51	ESE 4	0	3
Aberdeen ...	29.96	52	49	ENE 2	b	4	Jersey ...	29.83	62	53	ESE 1	b	1
Shields ...	29.82	51	49	NE 2	c	3	Dungeness ...	29.76	57	53	WNW 3	0	2
Ardrossan ...	29.84	49	49	W 1	r	1	London ...	29.79	54	50	WNW 1	0	*
Malin Head ...	29.86	50	49	E 1	0	0	Yarmouth ...	29.67	51	50	NNE 3	op	4
Mullaghmore ...	29.83	55	59	E 4	cv	2	Rocheport ...	29.84	75	64	ESE 1	bc	2
Belmullet ...	29.80	58	53	ESE 3	0	*							

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

The reports for yesterday morning showed that pressure was highest (30.4 in. to 30.0 in.) over Northern and Central Russia, the Baltic, and Scandinavia, and that it exceeded 30.0 in. over Western Algeria also. It was however, relatively low over the Bay of Biscay, and in a long zone stretching from the eastern parts of England across the Netherlands and North Germany, to Austria, Italy, the Adriatic, Greece, and the Balkan Peninsula. The barometer was rising decidedly on our western coasts, falling over the Continent — but irregularly. Thus, while the wind was E over Russia and all the more northern countries, it was N to NW over England, W to SW in Belgium, the east of France and South Germany, and very variable in most other places. In the western parts of Ireland and France, however, it was SE to E and in Spain W. The weather was in a very transitory condition; it was fine at nearly all the northern and also at many of the southwestern stations, cloudy, changeable and unsettled elsewhere, with rain in several localities — some of the falls were heavy 1.50 in. at York, 0.94 in. at Yarmouth, 0.71 in. at Lyons, more than 2 in. at Belfort and 1.46 in. at Brussels. Temperature was giving way in many places, most over Belgium and some parts of Germany and the change was spreading to England. Its distribution was very irregular. The highest morning values were 68° at Trieste, 67° at Bilbao, 66° at Rindini and at Ifaa (Tunis) 65° at Lerina, 64° at Algiers, 63° at Barcelona, Pessano and Berlin, 62° at Kiev, Buda Pesth, Oran and also at Skudesnaes, 60° at Mity, and Memel, and 59° at Stockholm and Riga. The lowest were 42° at Bodo, 45° at Naparanda, 47° at Holyhead, 48° at Leith and Shields, 49° at several other British and Irish stations and at Paris.

During the day cold unsettled weather continued to spread over the British Isles from the eastwards and heavy rain fell at some of our eastern 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 *Monday, 13th May, 1889.*
 Issued by the Meteorological Office, 63 Victoria Street, London. R. H. SCOTT, Secretary.

STATIONS.	† YESTERDAY EVENING.					8 A.M. TO DAY.										PAST 24 HOURS.		
	Barometer at 32° F. and Sea Level.	Temp. in Shade.	WIND.		Weather.	BAROMETER.		SHADE TEMP.			WIND.		Weather.	Sea. (0 to 9.)	SHADE TEMP.		Amount of Rainfall.	
			Dir.	Force. (0 to 12.)		Reading at 8 A.M. and Sea Level.	Difference from 8 a.m. yesterday.	Dry.	Wet.	Difference from 8 a.m. yesterday.	Dir.	Force. (0 to 12.)			Max.	Min.		
SCANDINAVIA.																		
Haparanda ..	30.16	44	W	0	C	30.27	+ 1.11	52	47	+ 0.8	N	2	b	*	63	34	0.16	
Hernösand ...	30.15	39	W	0	f	30.21	+ 1.1	48	47	+ 0.4	NE	2	C	*	68	87	-	
Stockholm ...	30.06	48	ESE	2	G	30.02	- 0.1	60	47	- 0.8	NNE	2	O	*	68	45	-	
Wisby ...	30.01	51	ESE	4	bc	29.95	- 0.7	46	45	- 0.7	NNE	4	r	*	68	39	0.08	
Bodö ...	30.28	42	NE	2	b	30.30	+ 0.4	44	44	+ 0.2	W	0	b	0	?	87	-	
Christiansund...	30.21	47	NE	6	b	30.12	- 1.1	47	45	- 0.3	E	2	f	2	50	43	0.04	
Skudesnaes ...	29.96	52	NW	2	b	30.00	- 0.4	50	47	- 1.3	NW	2	O	3	68	46	-	
Christiania Fjord (Færd)	30.03	47	NNE	6	r	30.00	- 0.4	47	44	- 0.9	NNE	5	O	2	63	46	0.28	
Skagen (The Scaw)	29.92	54	NNE	1	b	29.92	- 0.6	51	51	- 0.6	NE	2	O	2	64	48	-	
Fanö ...	29.90	52	NW	1	C	29.89	+ 0.1	54	53	- 0.4	WSW	2	r	*	68	50	0.04	
BRITISH ISLANDS.																		
Sumburgh Head	30.10	49	NE	5	b	30.04	- 0.4	47	44	- 0.3	NE	5	C	6	52	42	-	
Stornoway ...	30.02	55	E	5	b	30.05	+ 0.5	49	47	- 0.5	E	6	bc	5	57	44	-	
Wick ...	30.08	50	E	3	b	30.06	- 0.2	47	46	- 0.4	N	3	O	2	55	44	-	
Nairn ...	30.03	52	ESE	3	C	30.05	+ 0.3	47	45	- 0.3	E	2	O	2	57	44	-	
Aberdeen...	30.02	52	NE	2	b	30.04	+ 0.4	47	44	- 1.0	NW	3	O	3	58	46	-	
Leith ...	29.97	51	E	1	bc	30.00	+ 0.6	48	46	- 0.2	E	4	om	*	55	44	-	
Shields ...	29.88	47	N	2	f	29.95	+ 0.8	46	46	- 0.2	N	2	f	2	49	44	0.04	
Spurn Head ...	29.79	43	NE	4	O	29.87	+ 1.2	48	47	- 0.1	NE	4	O	4	53	46	-	
York ...	29.81	51	NE	1	O	29.88	+ 1.1	50	48	- 0.2	NNE	2	O	*	55	46	0.01	
Loughborough	29.81	52	NW	3	O	29.89	+ 1.0	48	48	- 0.2	NNE	2	ogm	*	53	48	0.04	
Ardrrossan ...	29.91	61	NE	3	om	29.96	+ 0.4	53	51	- 0.2	ESE	3	bm	2	62	46	-	
Malin Head ...	29.96	49	W	2	O	29.96	+ 0.1	52	50	+ 0.4	E	3	b	2	52	47	0.14	
Mullaghmore ...	29.97	53	NNE	4	cm	29.95	- 0.1	52	51	+ 0.2	W	0	om	2	56	49	0.29	
Belmullet ...	29.99	52	NE	2	O	29.96	- 0.0	51	51	- 0.2	WNW	1	O	*	56	45	0.10	
Donaghadee ...	29.92	50	NNE	3	r	29.96	+ 0.3	49	49	0	NE	3	bc	2	55	48	0.19	
Barrow-in-Furness	29.84	53	NE	2	O	29.90	+ 0.6	50	48	0	NE	3	O	*	54	49	0.16	
Liverpool (Bidston)	29.86	49	WNW	1	O	29.93	+ 0.7	50	47	+ 0.2	ESE	2	O	3	50	47	0.21	
Holyhead ...	29.89	49	NW	4	r	29.89	- 0.0	50	49	+ 0.2	ESE	4	ogm	4	50	47	0.07	
Parsonstown ...	29.96	59	W	0	C	29.94	- 0.3	50	48	- 0.1	W	0	O	*	61	47	0.03	
Valencia ...	30.00	54	WSW	2	O	29.96	- 0.4	53	50	+ 0.1	W	0	O	O	57	47	0.02	
Roche's Point...	29.98	56	NW	3	bc	29.95	- 0.3	52	49	+ 0.2	NW	3	b	3	58	46	-	
Pembroke ...	29.94	50	NW	2	C	29.90	- 0.2	50	49	0	WNW	3	bc	2	54	49	-	
Scilly ...	29.98	53	NW	5	bc	29.94	- 0.0	53	51	0	WNW	2	C	3	54	48	-	
Prawle Point ...	29.93	56	NW	3	b	29.93	+ 0.2	51	50	- 0.7	WSW	3	og	2	61	45	-	
Jersey ...	29.94	57	NW	3	O	29.96	+ 0.5	53	50	+ 0.9	NW	2	bm	2	62	42	-	
Hurst Castle ...	29.88	56	WNW	4	bc	29.91	+ 0.5	52	52	+ 0.1	WSW	3	C	2	62	50	-	
Dungeness ...	29.82	51	WSW	5	C	29.86	+ 0.7	50	49	0	WSW	5	O	4	55	49	-	
London ...	29.84	53	W	2	ogd	29.87	+ 0.8	51	50	+ 0.3	W	1	odm	*	53	47	0.08	
Oxford ...	29.86	50	W	2	O	29.89	+ 0.8	50	48	+ 0.2	NW	1	O	*	52	48	0.02	
Cambridge ...	29.82	54	NW	1	r	29.86	+ 1.2	50	50	0	NW	1	r	*	57	47	0.11	
Yarmouth ...	29.74	53	SW	2	cm	29.82	+ 1.3	50	49	0	SW	1	ogm	2	54	48	0.03	
Cuxhaven ...	29.90	53	W	3	r	29.92	+ 1.0	52	51	- 0.3	S	1	b	*	55	50	0.58	
Berlin ...	29.93	62	W	1	b	29.98	+ 1.6	59	55	0	SW	2	b	*	66	52	0.04	
Wiesbaden ...	*	*	*	*	*	29.98	+ 0.7	54	52	+ 0.2	W	0	b	*	68	46	-	
Munich ...	30.02	54	NE	?	b	30.04	+ 0.8	57	54	+ 0.2	SE	4	b	*	63	48	-	
GERMANY.																		
The Helder ...	29.88	53	S	1	C	29.88	+ 0.6	57	54	+ 0.3	S	1	C	1	61	54	-	
Brussels ...	29.93	*	*	*	*	29.93	+ 0.5	56	51	+ 0.2	SW	2	C	*	63	52	0.04	
Cape Gris Nez...	?	51	SW	3	C	?	?	50	48	- 0.1	SW	4	O	3	54	48	-	
Paris ...	29.93	59	W	2	O	29.96	+ 0.4	58	55	+ 0.8	W	0	b	*	74	50	-	
Brest ...	?	55	N	2	b	?	?	51	49	0	N	1	C	1	55	46	-	
Lorient ...	29.95	57	WNW	2	O	29.97	+ 1.0	50	48	- 0.3	NE	2	bc	4	64	48	-	
Rochefort ...	29.97	59	WSW	3	bc	30.00	+ 0.6	57	55	+ 0.1	SE	1	O	2	66	48	-	
Belfort ...	29.91	64	E	1	b	29.96	?	60	53	?	E	1	b	*	79	43	-	
Lyons ...	29.92	66	NNE	1	b	29.98	+ 0.2	56	50	+ 0.1	ESE	1	b	*	?	49	-	
Nice ...	29.98	59	SW	4	b	30.00	+ 0.7	55	52	- 0.1	NE	1	O	O	64	48	-	
Perpignan ...	29.93	61	SW	1	O	29.97	- 0.3	59	55	+ 0.1	NE	1	O	*	72	52	-	
Biarritz ...	29.97	58	NW	3	O	29.98	- 0.0	52	53	+ 0.3	W	0	O	2	64	54	-	
FRANCE & NETHERLANDS.																		
Corunna ...	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	
Lisbon ...	29.89	55	NW	5	C	29.91	0.0	53	53	+ 0.2	WNW	5	b	3	61	54	-	
PENINSULA.																		

For Explanation of Columns, see p. 4.

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

WEATHER CHARTS

for 8 a.m. on Monday, 13th May, 1889.

BAROMETER, WIND & SEA

(Explanation of Map)

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

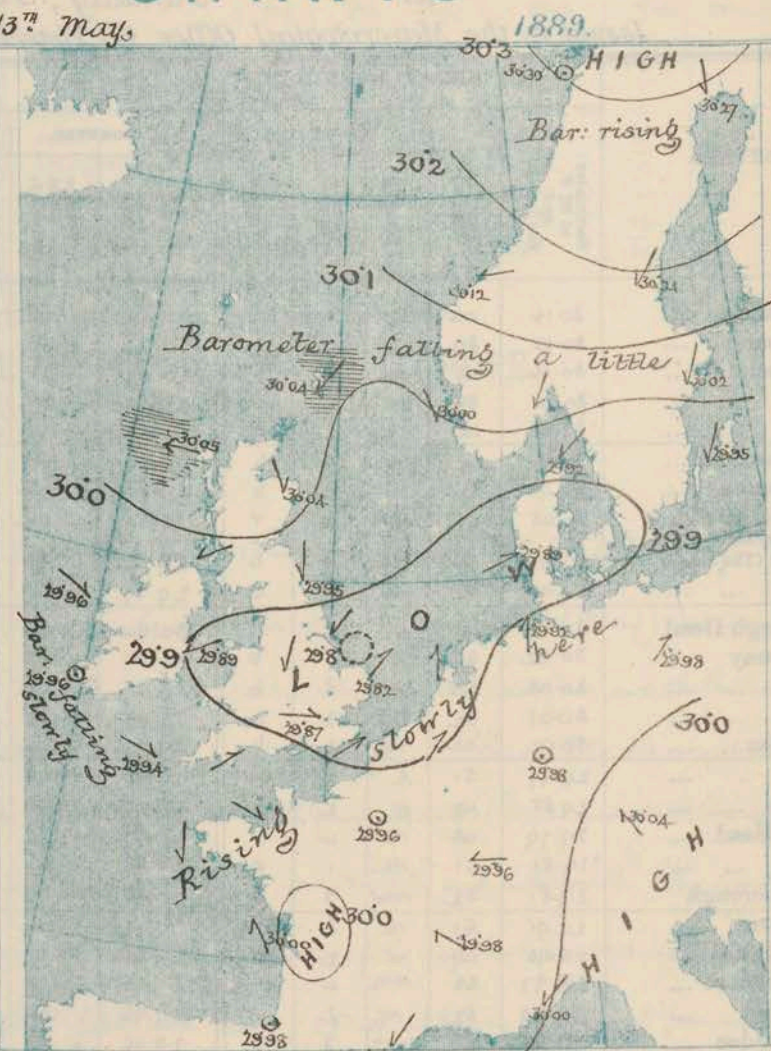
Sea Disturbance — where considerable, is shown thus.

— Rough — High

MEAN HEIGHT of the BAROMETER

at 8 a.m. for the month of 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	61.5	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	43.2	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	<p>Highest, 30.30 in: at Bodø; 30.0 in: and upwards over Switzerland and South Germany.</p> <p>Lowest, 29.9 in: and less, in a long triangle extending from Wales to the south of Sweden.</p> <p>Gradients slight and irregular. Barometer falling a little in the south of Scandinavia and the north of Scotland as well as on our southwest coast but rising elsewhere.</p>
TEMPERATURE	<p>Highest, 60° at Belfast, 59° at Berlin, Rinnitz and Perpignan, 58° at Paris and Jönköping, and 57° at Helder, Munich, and Rochefort.</p> <p>Lowest, 46° at Wick and Shields, and 47° at Bodø, Christiansund, Faøder, Lumburg, Hæd, Wick, Kinn and Aberdeen.</p> <p>The maxima registered yesterday over Central and Eastern England were below 55°.</p>
WIND	<p>NE over Scandinavia and all the more northern parts of the United Kingdom; light or moderate in force generally, but fresh or strong in the Shetlands and Hebrides.</p> <p>Light from the NW on our southwest coasts, from W or SW over the Channel and southeast of England, and from S at Helder and Cuxhaven.</p> <p>Variable over the greater part of France, but light from the NE in the extreme south.</p>
WEATHER	<p>Fine at some of our western stations, as well as in Germany, the Netherlands, France and the north of Scandinavia.</p> <p>Dull in most other localities, with fog or mist in several parts of Great Britain, and rain at Wick, Linn, Cambridge, and in London.</p> <p>Fine yesterday morning, rain has fallen over the Western-central and Southern parts of England.</p>
SEA	<p>Rough off the north of Scotland, but moderate to smooth elsewhere.</p>

PROBABLE CHANGES IN SYSTEM NOW PREVALENT

The distribution of pressure remains very irregular, but the barometer is rising slowly over France and Germany, and some temporary improvement in the weather is probable over our southern districts.

FORECASTS

for the 24 hours ending at NOON on 14TH MAY 1889.

DISTRICTS.

FORECASTS.

0	SCOTLAND NORTH	NE winds, light or moderate; dull, unsettled, some rain.
1	SCOTLAND EAST	
2	ENGLAND N.E.	NE and Variable breezes; dull, unsettled, some rain.
3	ENGLAND EAST	Light breezes, chiefly SW ^{ly} ; fair generally but not settled.
4	MIDLAND COUNTIES	
5	ENGLAND SOUTH	


DISTRICTS.


FORECASTS.

6	SCOTLAND WEST	Same as Nos 0 and 1.
7	ENGLAND N.W.	
8	ENGLAND S.W.	W ^{ly} winds, light; changeable; some showers.
9	IRELAND NORTH	Light and somewhat variable breeze, changeable, some rain.
10	IRELAND SOUTH	

WARNINGS

NONE ISSUED.

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

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

YESTERDAY'S 2 P.M. REPORTS.

	Bar.	Dry.	Wet.	Wind.	Wes.	Sea.		Bar.	Dry.	Wet.	Wind.	Wes.	Sea.
Skudesnaes ...	30.00	68	55	rw 6	bc	3	Holyhead ...	29.89	69	68	rw 4	rgw	4
Sumburgh Head ...							Valencia ...						
Stornoway ...	30.01	56	54	E 4	bc	4	Scilly ...						
Aberdeen ...							Jersey ...	29.94	61	51	rw 2	bc	2
Shields ...							Dungeness ...	29.82	53	50	rw 5	c	4
Ardrossan ...							London ...						*
Malin Head ...	29.96	49	49	rw 2	0	1	Yarmouth ...						
Mullaghmore ...							Rochefort ...	30.00	65	58	ssw 4	c	2
Belmullet ...	29.99	53	51	ENE 2	0	*							

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

The reports for yesterday morning showed that while pressure was high, 30.0 ins. to 30.3 ins. over Sweden, Norway and Scotland, as well as over central and eastern Russia, and exceeded 30.0 ins. both at Valencia and Corunna, it was rather low in a large shallow and irregularly shaped area, which covered southeastern Europe, Poland, north Germany, the Netherlands, the north of France and the greater part of England. Within this area was one well marked minimum, which lay over our eastern counties, and had its centre near Yarmouth. E^{ly} and NE^{ly} winds were consequently prevalent over northern Europe, the Baltic, North Sea and Scotland, NW^{ly} breezes near west and southwest coasts, NW^{ly} to NE^{ly} over the Spanish Peninsula, SW^{ly} breezes in Holland and north Germany, and variable light winds elsewhere. The weather was fine over the Baltic, Scandinavia, and the north and east of Scotland, as well as in many parts of Austria, dull elsewhere, and in most places unsettled. Rain was falling in many parts of England, as well as at Algiers, and considerable falls had occurred at some German, British and Algerian stations during the previous 24 hours. Temperature was very irregularly distributed, but varied from 44° in some parts of Sweden, to 60° and more over Algeria, in some parts of southern Europe, Austria, and the south of Russia. The highest individual (morning) values were 68° at Brindisi and Trieste, 67° at Sfax (Tunis), 66° at La Calle, 65° at Lesina, 64° at Olinda, Kiev, Lemberg, and Barcelona, 63° at Buda Pesth, Breslau, and at Skudersnaes. The lowest were 44° at Haparanda and Hernösand, 46° at St. Petersburg, 48° at Kuopio, Malin Head, Shields, Oxford and London, 49° at Spurn Head, and 50° at Yarmouth, Dungeness and Paris.

Dull unsettled weather continued over England during the day, and in London the sheltered thermometer did not rise above 53°.

SUMMARY OF CHANGES IN THE WEATHER OVER THE BRITISH ISLANDS AND THEIR NEIGHBOURHOOD FROM THE 5th TO THE 11th MAY 1889.

The weather experienced during the greater part of this week was fine and bright over the eastern and northern parts of our Islands, dull and rainy in the west. Temperature rose to between 70° and 77° over the inland parts of England on several occasions, the amount of bright sunshine was large and the air was soft. The sky, however, hardly ever had a settled appearance; solar and lunar halos of great brilliancy were frequently reported, the wind was SE^{ly} or E^{ly}, and though light as a rule, blew up to the force of a fresh breeze on fitful gusts from time to time. Pressure was continuously high over Scandinavia and northern Europe, low over the western and southern parts of our Islands and the Bay of Biscay, in which regions depressions appeared from time to time, travelling (except on the 5th and 6th) from S. to N. or to NW. Several thunderstorms were observed; they were often very local, but severe, especially those in the neighbourhood of Upper Tean (Stoke on Trent) on the 5th, at Boulogne on the 6th, and at Leominster on the 7th.

On Friday, 10th, however, this type of weather began to break up, and, as disturbances were developed over Germany, Belgium and the North Sea, cold N^{ly} winds set in over England, and rain became very prevalent in the east, while in the west the weather improved.

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, 14th May, 1889.*
Issued by the Meteorological Office, 63 Victoria Street, London. R. H. SCOTT, Secretary.



+ YESTERDAY EVENING.																		8 A.M. TO DAY.										PAST 24 HOURS.		
STATIONS.	Barometer at 33° F. and Sea Level.	Temp. in Shade.	WIND.			Weather.	BAROMETER.		SHADE TEMP.			WIND.			Weather.	Sea. (0 to 9.)	SHADE TEMP.		Amount of Rainfall.											
			Dir.	Force. (0 to 12.)			Reading at 33° 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 ..																														
Hernösand ...	29.17	49	X	0	C	29.10	-11	53	48	+5	X	0	C	*			64	37	-											
Stockholm ...	29.95	49	NE	2	T	29.88	-14	53	48	0	N	4	0	*			59	39	0.47											
Wisby ...	29.94	46	SW	4	0	29.91	-04	45	44	-1	SW	4	0	*			64	41	0.04											
Bodö ...	29.23	48	NNW	1	C	29.12	-18	49	44	+2	W	1	C	1			53	39	-											
Christiansund...	29.07	52	ENE	4	C	29.03	-09	54	50	+4	SE	2	C	2			54	48	-											
Skudesnaes ...	29.95	52	X	0	C	29.96	-04	53	49	+5	E	4	0	3			57	46	-											
Christiania Fjord (Færdar)	29.96	51	N	5	C	29.95	-05	51	50	+4	N	5	7	1			52	50	-											
Skagen (The Scaw)	29.95	52	E	1	C	29.92	0.0	53	51	+2	X	0	0	0			64	46	-											
Fanö ...	29.91	56	ENE	1	C	29.88	-01	57	56	+2	SE	2	C	*			59	52	0.20											
BRITISH ISLANDS.																														
Sumburgh Head	29.01	47	NE	3	C	29.89	-15	46	46	-1	NE	2	0	4			51	41	0.04											
Stornoway ..	29.03	48	NE	6	C	29.86	-19	50	49	+1	N	4	C	4			50	44	-											
Wick ...	29.03	48	NW	2	0	29.84	-22	50	48	+2	SW	1	C	1			50	45	0.05											
Nairn ...	29.99	49	E	1	0	29.86	-19	49	45	+2	X	0	C	1			53	43	-											
Aberdeen...	29.98	48	NW	2	C	29.88	-16	46	43	-1	E	1	0	3			56	44	-											
Leith ...	29.97	51	E	2	C	29.87	-13	46	43	-2	ENE	2	om	*			56	43	-											
Shields ...	29.92	45	N	2	0	29.88	-07	45	43	-1	N	2	0	3			47	42	-											
Spurn Head ...	29.89	47	NNE	4	f	29.88	+01	46	45	-2	NNE	2	0	3			53	44	-											
York ...	29.89	52	N	1	0	29.87	-01	46	44	-4	NNE	1	0	*			58	44	-											
Loughborough	29.91	53	NE	1	0	29.89	0.0	48	47	0	NE	1	om	*			52	45	-											
Ardrossan ...	29.89	64	NNW	1	C	29.84	-12	47	46	-6	NE	2	om	1			66	45	0.01											
Malin Head ...	29.92	53	NE	1	C	29.85	-11	49	47	-2	N	2	om	2			53	47	-											
Mullaghmore ...	29.92	61	NW	1	C	29.85	-10	52	51	0	SW	1	f	1			61	47	-											
Belmullet ...	29.93	53	ENE	2	C	29.87	-09	52	52	+1	NNW	2	0	*			53	45	0.05											
Donaghadee ...	29.92	53	ENE	2	C	29.86	-10	48	48	-1	SW	2	C	1			59	48	-											
GERMANY.																														
Barrow-in-Furness	29.91	57	E	3	C	29.87	-03	49	48	-1	NE	2	C	*			59	48	-											
Liverpool (Bidston)	29.90	56	E	2	C	29.87	-06	53	50	+3	SE	2	C	2			59	48	-											
Holyhead ...	29.90	53	NE	1	cm	29.85	-04	51	50	+1	SW	1	om	1			57	47	-											
Parsonstown ...	29.91	54	X	0	0	29.85	-09	54	50	+4	X	0	C	*			53	46	0.01											
Valencia ...	29.90	54	NNW	1	0	29.86	-10	53	52	+2	X	0	cm	1			59	46	-											
FRANCE & NETHERLANDS.																														
Roche's Point...	29.90	53	SW	2	C	29.86	-09	53	50	+1	NNW	1	C	3			60	47	-											
Pembroke ...	29.90	49	W	2	f	29.85	-05	49	49	-1	S	1	f	2			52	48	-											
Scilly ...	29.91	53	SW	1	C	29.81	-13	51	48	-2	E	3	0	2			56	46	-											
Prawle Point ...	29.91	53	W	2	C	29.86	-07	54	51	+2	SE	1	C	0			54	45	-											
Jersey ...	29.94	57	NNW	2	C	29.86	-10	54	51	+1	ENE	2	cm	2			58	45	-											
PENINSULA.																														
Hurst Castle ...	29.91	55	NNW	2	cm	29.87	-04	53	53	+2	NW	2	C	1			62	50	-											
Dungeness ...	29.89	52	SW	4	C	29.85	-01	50	50	0	SW	2	f	1			65	47	-											
London ...	29.88	56	W	1	org	29.87	0.0	52	51	+1	X	0	omg	*			58	50	-											
Oxford ...	29.90	52	NNW	1	0	29.88	-01	48	48	-2	NE	2	0	*			56	48	-											
Cambridge ...	29.88	52	N	1	0	29.87	+01	49	48	-1	N	1	0	*			57	45	0.02											
Yarmouth ...	29.86	52	X	0	om	29.86	+04	48	47	-2	X	0	om	2			53	46	0.02											
Corhaven ...	29.94	53	X	0	T	29.90	-02	56	53	+4	SE	2	C	*			60	53	0.10											
Berlin ...	29.95	67	SW	1	C	29.91	-07	64	57	+5	SE	2	C	*			75	53	-											
Wiesbaden ...	*	*	*	*	*	29.85	-13	61	56	+7	X	0	C	*			70	52	-											
Munich ...	29.95	60	NE	2	0	29.89	-15	61	57	+4	SW	2	C	*			70	50	-											
PENINSULA.																														
The Helder ...	29.90	53	SW	1	0	29.88	0.0	51	50	-6	SW	1	f	1			59	53	-											
Brussels ...	29.90	52	SW	2	*	29.88	-05	56	54	0	NNE	1	0	*			67	51	-											
Cape Gris Nez...	?	52	SW	2	C	?	?	52	51	+2	NE	1	m	0			57	48	-											
Paris ...	29.89	66	NE	2	C	29.86	-10	53	52	-2	N	1	C	*			71	50	-											
Brest ...	?	54	NNW	2	C	?	?	51	49	0	SE	1	T	2			57	45	0.04											
Lorient ...	29.94	56	W	3	C	29.84	-13	52	50	+2	E	1	0	2			59	48	-											
Rochefort ...	29.95	60	NNW	4	C	29.91	-09	56	54	-1	S	2	C	2			72	48	-											
Belfort ...	29.85	64	E	1	C	29.83	-13	60	60	0	W	1	T	*			77	57	0.12											
Lyons ...	29.91	58	S	2	T	29.86	-12	53	54	-1	N	1	0	*			73	52	0.20											
Nice ...	29.91	57	E	5	T	29.82	-18	64	54	+9	ENE	4	T	4			66	53	0.04											
Perpignan ...	29.94	53	NW	1	T	29.83	-14	57	53	-2	SW	2	0	*			63	50	0.43											
Biarritz ...	29.96	57	NNW	2	0	29.88	-10	56	54	-2	SW	2	0	2			63	54	-											
PENINSULA.																														
Corunna ...	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*											
Lisbon ...	29.99	53	NNW	5	C	29.01	+10	56	54	0	NW	2	0	2			63	50	-											

for 8 a.m. on

Tuesday, 14th May.

1889

(Explanation of Map)

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

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

A hand-drawn weather map of the North Atlantic and Europe. The map features several isobars and pressure values:

- Isobars:** 30.1, 30.0, 30.03, 29.9, 29.8, 29.7, 29.6, 29.5, 29.4, 29.3, 29.2, 29.1, 29.0, 28.9, 28.8, 28.7, 28.6, 28.5, 28.4, 28.3, 28.2, 28.1, 28.0, 27.9, 27.8, 27.7, 27.6, 27.5, 27.4, 27.3, 27.2, 27.1, 27.0, 26.9, 26.8, 26.7, 26.6, 26.5, 26.4, 26.3, 26.2, 26.1, 26.0, 25.9, 25.8, 25.7, 25.6, 25.5, 25.4, 25.3, 25.2, 25.1, 25.0, 24.9, 24.8, 24.7, 24.6, 24.5, 24.4, 24.3, 24.2, 24.1, 24.0, 23.9, 23.8, 23.7, 23.6, 23.5, 23.4, 23.3, 23.2, 23.1, 23.0, 22.9, 22.8, 22.7, 22.6, 22.5, 22.4, 22.3, 22.2, 22.1, 22.0, 21.9, 21.8, 21.7, 21.6, 21.5, 21.4, 21.3, 21.2, 21.1, 21.0, 20.9, 20.8, 20.7, 20.6, 20.5, 20.4, 20.3, 20.2, 20.1, 20.0, 19.9, 19.8, 19.7, 19.6, 19.5, 19.4, 19.3, 19.2, 19.1, 19.0, 18.9, 18.8, 18.7, 18.6, 18.5, 18.4, 18.3, 18.2, 18.1, 18.0, 17.9, 17.8, 17.7, 17.6, 17.5, 17.4, 17.3, 17.2, 17.1, 17.0, 16.9, 16.8, 16.7, 16.6, 16.5, 16.4, 16.3, 16.2, 16.1, 16.0, 15.9, 15.8, 15.7, 15.6, 15.5, 15.4, 15.3, 15.2, 15.1, 15.0, 14.9, 14.8, 14.7, 14.6, 14.5, 14.4, 14.3, 14.2, 14.1, 14.0, 13.9, 13.8, 13.7, 13.6, 13.5, 13.4, 13.3, 13.2, 13.1, 13.0, 12.9, 12.8, 12.7, 12.6, 12.5, 12.4, 12.3, 12.2, 12.1, 12.0, 11.9, 11.8, 11.7, 11.6, 11.5, 11.4, 11.3, 11.2, 11.1, 11.0, 10.9, 10.8, 10.7, 10.6, 10.5, 10.4, 10.3, 10.2, 10.1, 10.0, 9.9, 9.8, 9.7, 9.6, 9.5, 9.4, 9.3, 9.2, 9.1, 9.0, 8.9, 8.8, 8.7, 8.6, 8.5, 8.4, 8.3, 8.2, 8.1, 8.0, 7.9, 7.8, 7.7, 7.6, 7.5, 7.4, 7.3, 7.2, 7.1, 7.0, 6.9, 6.8, 6.7, 6.6, 6.5, 6.4, 6.3, 6.2, 6.1, 6.0, 5.9, 5.8, 5.7, 5.6, 5.5, 5.4, 5.3, 5.2, 5.1, 5.0, 4.9, 4.8, 4.7, 4.6, 4.5, 4.4, 4.3, 4.2, 4.1, 4.0, 3.9, 3.8, 3.7, 3.6, 3.5, 3.4, 3.3, 3.2, 3.1, 3.0, 2.9, 2.8, 2.7, 2.6, 2.5, 2.4, 2.3, 2.2, 2.1, 2.0, 1.9, 1.8, 1.7, 1.6, 1.5, 1.4, 1.3, 1.2, 1.1, 1.0, 0.9, 0.8, 0.7, 0.6, 0.5, 0.4, 0.3, 0.2, 0.1, 0.0, -0.1, -0.2, -0.3, -0.4, -0.5, -0.6, -0.7, -0.8, -0.9, -1.0, -1.1, -1.2, -1.3, -1.4, -1.5, -1.6, -1.7, -1.8, -1.9, -2.0, -2.1, -2.2, -2.3, -2.4, -2.5, -2.6, -2.7, -2.8, -2.9, -3.0, -3.1, -3.2, -3.3, -3.4, -3.5, -3.6, -3.7, -3.8, -3.9, -4.0, -4.1, -4.2, -4.3, -4.4, -4.5, -4.6, -4.7, -4.8, -4.9, -5.0, -5.1, -5.2, -5.3, -5.4, -5.5, -5.6, -5.7, -5.8, -5.9, -6.0, -6.1, -6.2, -6.3, -6.4, -6.5, -6.6, -6.7, -6.8, -6.9, -7.0, -7.1, -7.2, -7.3, -7.4, -7.5, -7.6, -7.7, -7.8, -7.9, -8.0, -8.1, -8.2, -8.3, -8.4, -8.5, -8.6, -8.7, -8.8, -8.9, -9.0, -9.1, -9.2, -9.3, -9.4, -9.5, -9.6, -9.7, -9.8, -9.9, -10.0, -10.1, -10.2, -10.3, -10.4, -10.5, -10.6, -10.7, -10.8, -10.9, -11.0, -11.1, -11.2, -11.3, -11.4, -11.5, -11.6, -11.7, -11.8, -11.9, -12.0, -12.1, -12.2, -12.3, -12.4, -12.5, -12.6, -12.7, -12.8, -12.9, -13.0, -13.1, -13.2, -13.3, -13.4, -13.5, -13.6, -13.7, -13.8, -13.9, -14.0, -14.1, -14.2, -14.3, -14.4, -14.5, -14.6, -14.7, -14.8, -14.9, -15.0, -15.1, -15.2, -15.3, -15.4, -15.5, -15.6, -15.7, -15.8, -15.9, -16.0, -16.1, -16.2, -16.3, -16.4, -16.5, -16.6, -16.7, -16.8, -16.9, -17.0, -17.1, -17.2, -17.3, -17.4, -17.5, -17.6, -17.7, -17.8, -17.9, -18.0, -18.1, -18.2, -18.3, -18.4, -18.5, -18.6, -18.7, -18.8, -18.9, -19.0, -19.1, -19.2, -19.3, -19.4, -19.5, -19.6, -19.7, -19.8, -19.9, -20.0, -20.1, -20.2, -20.3, -20.4, -20.5, -20.6, -20.7, -20.8, -20.9, -21.0, -21.1, -21.2, -21.3, -21.4, -21.5, -21.6, -21.7, -21.8, -21.9, -22.0, -22.1, -22.2, -22.3, -22.4, -22.5, -22.6, -22.7, -22.8, -22.9, -23.0, -23.1, -23.2, -23.3, -23.4, -23.5, -23.6, -23.7, -23.8, -23.9, -24.0, -24.1, -24.2, -24.3, -24.4, -24.5, -24.6, -24.7, -24.8, -24.9, -25.0, -25.1, -25.2, -25.3, -25.4, -25.5, -25.6, -25.7, -25.8, -25.9, -26.0, -26.1, -26.2, -26.3, -26.4, -26.5, -26.6, -26.7, -26.8, -26.9, -27.0, -27.1, -27.2, -27.3, -27.4, -27.5, -27.6, -27.7, -27.8, -27.9, -28.0, -28.1, -28.2, -28.3, -28.4, -28.5, -28.6, -28.7, -28.8, -28.9, -29.0, -29.1, -29.2, -29.3, -29.4, -29.5, -29.6, -29.7, -29.8, -29.9, -30.0, -30.1, -30.2, -30.3, -30.4, -30.5, -30.6, -30.7, -30.8, -30.9, -31.0, -31.1, -31.2, -31.3, -31.4, -31.5, -31.6, -31.7, -31.8, -31.9, -32.0, -32.1, -32.2, -32.3, -32.4, -32.5, -32.6, -32.7, -32.8, -32.9, -33.0, -33.1, -33.2, -33.3, -33.4, -33.5, -33.6, -33.7, -33.8, -33.9, -34.0, -34.1, -34.2, -34.3, -34.4, -34.5, -34.6, -34.7, -34.8, -34.9, -35.0, -35.1, -35.2, -35.3, -35.4, -35.5, -35.6, -35.7, -35.8, -35.9, -36.0, -36.1, -36.2, -36.3, -36.4, -36.5, -36.6, -36.7, -36.8, -36.9, -37.0, -37.1, -37.2, -37.3, -37.4, -37.5, -37.6, -37.7, -37.8, -37.9, -38.0, -38.1, -38.2, -38.3, -38.4, -38.5, -38.6, -38.7, -38.8, -38.9, -39.0, -39.1, -39.2, -39.3, -39.4, -39.5, -39.6, -39.7, -39.8, -39.9, -40.0, -40.1, -

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.

A hand-drawn map of Europe and North Africa, showing isotherms and handwritten notes. The map includes latitude lines for 50°, 55°, and 60°. Isotherms are drawn and labeled with values such as 50, 55, 60, 64, and 66. Handwritten notes include:

- CHANGED**: Written vertically along the 50° isotherm in the Atlantic.
- WARMER DEGREES**: Written vertically along the 55° isotherm in the North Atlantic.
- FEW**: Written vertically in the North Atlantic, below the 'WARMER DEGREES' note.
- IRREGULARLY**: Written vertically in the Mediterranean Sea.
- Rain has fallen**: Written in several locations, including the British Isles, the Mediterranean, and the North Atlantic.
- Specific Data Points**:
 - Night 0, Day 18, Night 18 (with temperatures like 46, 45, 48, 51, 55, 57, 60, 64, 66)
 - 46, 45, 48, 51, 55, 57, 60, 64, 66 (various temperature readings)
 - 50, 55, 60, 64, 66 (isotherm values)

Note - The Temperature means are for the 45 years 1871-86, the Rainfall means are mainly those for the 20 years 1866-85

GENERAL SITUATION AT 8 A.M.

PRESSURE	Highest, 30.1 in: and upwards, over the north of Scandinavia; 30.0 in: and upwards in the south of Portugal. Lowest, 29.8 in: at Sicily; 29.82 in: at Nice. Over the whole of our Islands, the North Sea, the Netherlands, France and Germany pressures vary between 29.8 in: and 29.9 in:. Gradients exceedingly slight. Barometres falling generally, — most in the north of Scotland.
TEMPERATURE	Highest, 64° at Berlin and Nice, 61° at Wiesbaden and Munich, 60° at Belfast, 57° at Paris and Perpignan, and 56° at Copenhagen, Brussels, Rochfort, Biarritz and Lisbon. Lowest, 45° at Ulsby and Shields, 46° at Edinburgh, Leith, York, and Spurn Head, and 47° at Anderson. The highest maxima registered over the United Kingdom yesterday were 66° at Anderson, and 65° at Dungeness.
WIND	Light and very variable over our Islands, the North Sea, the Netherlands, Germany, and the greater part of France. Moderate from E. in the west of Norway, light from SE. in Denmark, light from SW. in the south of France.
WEATHER	Fine in some localities, but cloudy or overcast generally, with mist or fog on many parts of our coasts. Rain is falling at Farden and also at Belfast and Brest. Slight rain fell yesterday in isolated portions of the United Kingdom.
SEA	Moderate off the north of Scotland, slight or smooth elsewhere.



PROBABLE CHANGES IN SYSTEM NOW PREVALENT

The present changes in pressure are too irregular to allow of definite forecasting for individual districts. A shallow depression is, however, apparently forming off the mouth of the Channel and this may possibly occasion rain in its neighbourhood.

FORECASTS

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

DISTRICTS.	FORECASTS.	DISTRICTS.	FORECASTS.
0 SCOTLAND NORTH	Light Varying breezes; cloudy, mist and rain locally.	6 SCOTLAND WEST	Same as N ^o 0 to 2.
1 SCOTLAND EAST		7 ENGLAND N. W.	
2 ENGLAND N. E.	Variable breezes, finally E ^{ly} or SE ^{ly} ; cloudy, rain locally, possibly thunder.	8 ENGLAND S. W.	E ^{ly} winds, light or moderate; drizzle, some rain.
3 ENGLAND EAST		9 IRELAND NORTH	Variable breezes, finally NE ^{ly} ; fair generally.
4 MIDLAND COUNTIES		10 IRELAND SOUTH	
5 ENGLAND SOUTH		WARNINGS	NONE ISSUED.

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

YESTERDAY'S 2 P.M. REPORTS.

	Bar.	Dry.	Wet.	Wind.	Wes.	Sea.		Bar.	Dry.	Wet.	Wind.	Wes.	Sea.
Shetland ...	30.00	57	50	E 2	0	3	Holyhead ...	29.91	56	52	E 2 3	bc	3
Burnburgh Head ...	30.03	48	45	NE 4	c	6	Valencia ...	29.93	57	54	NW 2	c	2
Stornoway ...	30.05	50	49	E 5	3	4	Sailly ...	29.91	54	51	WSW 2	bc	3
Aberdeen ...	29.99	55	48	NW 4	6q	3	Jersey ...	29.96	57	52	NW 2	bc	3
Shields ...	29.97	47	46	NNE 2	0	2	Dungeness ...	29.89	59	52	SW 4	bc	3
Ardrassan ...	29.90	65	59	WNW 1	6	1	London ...	29.89	56	54	W 2	0	*
Malin Head ...	29.96	53	54	NE 1	6	0	Yarmouth ...	29.86	52	51	SSW 1	oqm	2
Mullaghmore ...	29.94	57	53	E 2	cm	2	Rochefort ...	30.02	64	57	S 2	0	2
Belmullet ...	29.94	57	55	E 2	0	*							

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

The reports for yesterday morning showed that pressure remained high (30.0 ins. to 30.3 ins.) over Scandinavia and Russia, but that over Central, Southern and Western Europe its distribution was very irregular — cyclonic and anticyclonic systems of very slight intensity being prevalent over the British Islands, Germany, France, and Spain. A well formed depression was found, however, over Algeria. The wind was mainly E³ over all the northern countries, and light in force; elsewhere the wind was extremely variable and light, except on the southern shore of the Mediterranean, where there was a cyclonic circulation of moderate breezes round the depression mentioned above. The weather was dull and rainy over the southern and western parts of the Mediterranean, very variable elsewhere — the sky being clear in some localities, very gloomy in others, and raining in a few. Temperature also was irregularly distributed. It was below 50° over the northern parts of the British Islands, many parts of Scandinavia, and Central Finland, above 50° at our western and southern stations and over Spain, France, and Germany, above 60° in Italy and the southern part of Austria and Russia, and above 70° in some parts of Algeria. The highest individual values were 73° at La Follie, 69° at Oran and Beindiri, 66° at Trieste, 65° at Cagliari, 64° at Lesina and Kiev, and 61° at Odessa, New-Bahwanee and Mernel; the lowest were 46° at Shields and Ulsby, 47° in the east of Scotland and the northwest of Norway, 48° at Spurnhead, 49° at Lornoway and Kuopio, and 50° at Archangel, Oxford and Pansoutown.

Little change occurred later.

EXPLANATION OF COLUMNS GIVEN ON PAGE 1.

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

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

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

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

DAILY WEATHER REPORT.

for Wednesday 15th May. 1889.

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

STATIONS.	† YESTERDAY EVENING.						8 A.M. TO DAY.										PAST 24 HOURS.		
	Barometer at 32° F. and Sea Level.	Temp. in Shade.	WIND.		Weather.	Reading at 32° F. and Sea Level.	Difference from 8 a.m. yesterday.	SHADE TEMP.		Difference from 8 a.m. yesterday.	WIND.		Weather.	Sea. (0 to 9.)	SHADE TEMP.		Amount of Rainfall.		
			Dir.	Force. (0 to 12.)				Dry.	Wet.		Dir.	Force. (0 to 12.)			Max.	Min.			
SCANDINAVIA.																			
Haparanda ..														*					
Hernösand ...	29.89	57	X	0	C	29.91	-1.9	54	47	+1	E	4	C	*	75	39	—		
Stockholm ...	29.88	53	WNW	2	O	29.88	0.0	58	52	+8	W	2	C	*	59	46	0.01		
Wisby ...	29.92	44	WNW	4	bc	29.92	+0.2	47	47	+2	NNE	4	O	*	54	39	—		
Bodö ...	30.08	42	N	4	O	30.06	-0.6	42	38	-7	N	4	C	2	48	39	—		
Christiansund...	29.96	56	NNE	4	C	30.01	-0.2	48	46	-6	NNE	6	m	2	64	45	—		
Skudesnaes ...	29.95	52	WNW	2	C	29.95	-0.1	57	51	+2	ENE	2	C	2	62	46	—		
Christiania Fjord (Færdø)	29.95	52	ENE	2	P	29.95	0.0	52	50	+1	NNE	2	C	1	54	?	0.16		
Skagen (The Scaw)	29.92	51	X	0	C	29.90	-0.2	53	52	+2	ENE	1	C	1	62	50	—		
Fanö ...	29.86	57	E	2	C	29.84	-0.4	58	53	+1	ENE	4	bc	*	66	52	—		
BRITISH ISLANDS.																			
Sumburgh Head	29.92	47	E	2	O	29.91	+0.2	45	45	-1	NNE	2	O	4	48	43	0.06		
Stornoway ...	29.79	50	E	2	O	29.79	-0.7	47	47	-2	SE	2	P	2	57	44	0.32		
Wick ...	29.84	52	S	1	bc	29.84	0.0	47	47	-2	X	0	C	1	57	44	—		
Nairn ...	29.79	54	NNE	2	C	29.80	-0.6	46	45	-2	X	0	O	1	54	43	0.12		
Aberdeen...	29.86	46	SE	2	bc	29.87	-0.1	47	46	+1	ENE	1	om	2	51	42	—		
Leith ...	29.80	47	E	1	O	29.82	-0.5	48	46	+2	E	2	om	*	50	44	0.20		
Shields ...	29.82	46	E	2	C	29.82	-0.5	48	46	+2	SE	2	O	2	50	43	—		
Spurn Head ...	29.84	47	ENE	2	O	29.85	-0.2	46	45	0	N	1	O	2	49	45	—		
York ...	29.81	54	ENE	1	C	29.82	-0.4	50	48	+4	ENE	1	O	*	56	43	—		
Loughborough	29.84	56	ENE	2	C	29.85	-0.4	49	49	+1	NNE	2	om	*	58	46	—		
Ardrossan ...	29.76	54	NNE	1	O	29.78	-0.6	48	48	+1	W	1	O	1	58	46	0.35		
Malin Head ...	29.77	50	N	2	C	29.76	-0.9	49	48	0	SW	2	of	2	52	45	0.02		
Mullaghmore ...	29.79	52	NW	4	bc	29.80	-0.5	50	48	-2	WNW	4	C	2	57	44	0.02		
Belmullet ...	29.84	52	NNE	2	C	29.82	-0.5	51	48	-1	W	2	C	*	54	43	—		
Donaghadee ...	29.77	50	SW	2	O	29.82	-0.4	50	48	+2	NNE	2	C	1	52	47	0.13		
GERMANY.																			
Barrow-in-Furness	29.79	57	WNW	2	bc	29.81	-0.6	50	49	+1	SE	4	O	*	59	49	—		
Liverpool (Bidston)	29.81	52	WNW	1	C	29.82	-0.4	56	52	+2	SE	2	C	2	62	47	—		
Holyhead ...	29.80	49	SW	1	fg	29.82	-0.2	51	49	0	SW	2	C	2	55	45	—		
Parsonstown ...	29.76	61	NW	1	O	29.84	-0.1	50	46	-4	NNE	1	O	*	65	47	—		
Valencia ...	29.82	59	NW	1	bc	29.82	+0.2	52	47	-2	N	1	om	1	60	47	—		
Roche's Point...	29.81	53	SW	2	bc	29.85	-0.1	54	50	+1	NW	2	bc	2	56	49	—		
Pembroke ...	29.81	53	WNW	2	bc	29.82	-0.2	52	50	+2	W	1	C	0	53	46	—		
Scilly ...	29.78	52	NNE	4	bc	29.83	+0.2	54	51	+2	WNW	4	C	2	57	50	—		
Prawle Point ...	29.78	53	ENE	2	C	29.81	-0.5	53	52	+1	N	2	om	1	58	49	—		
Jersey ...	29.74	58	ENE	4	og	29.76	-1.0	54	52	0	X	0	og	0	65	50	0.20		
Hurst Castle ...	29.87	56	NW	2	C	29.86	-0.7	53	53	-2	NNE	2	of	0	62	51	0.02		
Dungeness ...	29.79	52	SE	2	m	29.76	-0.9	51	50	+1	NNE	2	C	2	59	48	—		
London ...	29.80	58	NNE	2	O	29.82	-0.5	49	47	-3	NNE	1	og	*	62	46	—		
Oxford ...	29.82	52	NNE	1	C	29.84	-0.4	49	48	+1	NNE	1	O	*	58	48	—		
Cambridge ...	29.82	54	N	1	O	29.85	-0.2	48	47	-1	N	1	om	*	58	44	—		
Yarmouth ...	29.85	49	NNE	2	om	29.81	-0.5	47	46	-1	NNE	2	C	2	52	43	0.01		
Cuxhaven ...	29.85	57	N	1	C	29.80	-1.0	58	57	+2	N	2	O	*	62	51	—		
Berlin ...	29.80	71	SE	2	O	29.76	-1.5	66	62	+2	E	2	C	*	71	61	—		
Wiesbaden ...	*	*	*	*	*	29.75	-1.0	61	59	0	X	0	bc	*	70	54	—		
Munich ...	29.78	62	SE	2	O	29.79	-1.0	62	57	+1	SW	5	O	*	75	57	0.04		
FRANCE & NETHERLANDS.																			
The Helder ...	29.84	52	NNE	1	C	29.78	-1.0	54	52	+2	NNE	2	C	2	53	?	—		
Brussels ...	*	*	*	*	*	29.74	-1.4	56	56	0	NNE	1	P	*	66	53	0.39		
Cape Gris Nez...	?	52	ENE	2	C	?	?	47	47	-5	E	4	C	2	59	46	—		
Paris ...	29.76	59	SSW	1	O	29.76	-1.0	59	58	+4	X	0	O	*	73	?	0.35		
Brest ...	?	54	NNE	1	O	?	?	53	51	+2	N	2	O	2	53	46	0.24		
Lorient ...	29.72	52	ENE	2	P	29.71	-1.3	53	52	+1	N	2	O	2	57	50	0.32		
Rochefort ...	29.81	59	WNW	4	O	29.79	-1.2	54	52	-2	WNW	2	P	2	70	48	0.16		
Belfort ...	29.77	64	W	1	C	29.80	-0.3	60	58	0	W	1	C	*	68	51	—		
Lyons ...	29.82	53	SW	1	P	29.84	-0.2	54	52	-1	SE	1	C	*	60	51	0.47		
Nice ...	29.70	67	E	6	C	29.75	-0.7	62	56	-2	X	0	C	2	72	57	0.08		
Perpignan ...	29.78	63	NNE	2	O	29.84	+0.1	62	58	+5	W	1	bc	*	70	48	0.04		
Biarritz ...	29.82	62	X	0	O	29.86	-0.2	56	54	0	W	4	P	2	68	54	0.08		
PENINSULA.																			
Corunna ...	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*		
Lisbon ...	30.02	59	NW	4	C	30.03	+0.2	59	56	+2	NW	2	O	2	64	53	—		

WEATHER CHARTS

for 8 a.m. on WEDNESDAY 15th MAY

1889.

BAROMETER, WIND & SEA.

(Explanation of Map)

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

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

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

→ = forces 5 to 7, → = forces 1 to 4,

○ = dead calm.

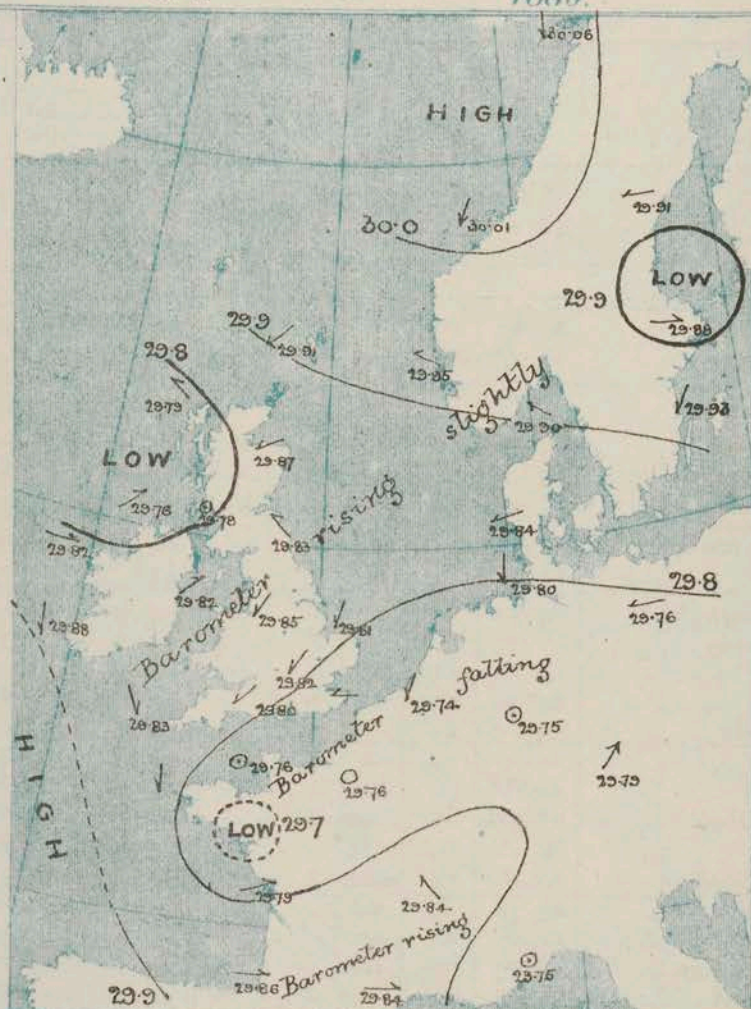
Sea Disturbance — where considerable is shown thus.

— Rough — High.

MEAN HEIGHT of the BAROMETER

at 8 a.m. for the month of 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.

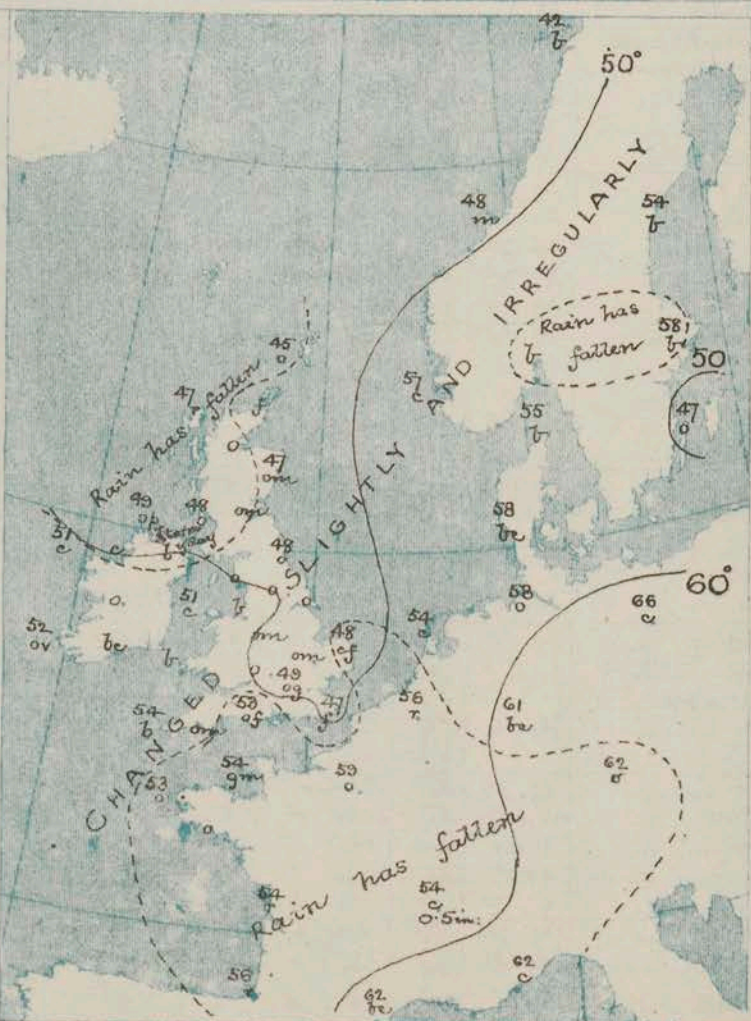
MEANS OF TEMPERATURE IN SHADE.

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	45.8	1.90
Leith	57.8	42.2	50.1	46.7	1.66
Shields	54.2	43.1	49.1	45.9	1.76
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	2.16
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	52.8	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	43.2	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 25 years 1866—85.



GENERAL SITUATION AT 8 A.M.

PRESSURE

Highest 30.0 ins. and upwards, over the west of Norway and also in the south of Portugal.
 Lowest 29.7 ins. and less, in a small depression lying over the northwest of France, 29.8 ins. and less, over nearly the whole of France, the Channel, the Netherlands and Germany, as well as in the west of Scotland and north of Ireland.
 Gradients slight. Barometer changing irregularly, but rising slightly in most parts of the United Kingdom.

TEMPERATURE

Highest 66° at Berlin, 62° at Munich, Nice and Perpignan, 61° at Wiesbaden, 59° at Paris and Lisbon, and 58° at Stockholm, Tams and Luchauon.
 Lowest 42° at Bodø, 45° at Lumburgh Head, 46° at Spurn Head, and 47° at Ulsby, Stormoway, Wick, Hairs and Aberdeen, and south of Great Britain.

WIND

Light or moderate from the E. or NE. over Scandinavia, Denmark, the North Sea, the Netherlands, north Germany, and the east, light from SW in the north of Ireland, and from NW or N on our southwest coasts.
 Moderate from W in the southwest of France; fresh from SW at Munich.

WEATHER

Fine in Scandinavia and Denmark, as well as at several of our western stations.
 Dull elsewhere with mist or fog in many parts of Great Britain, and rain at Stormoway and Brussels.
 A thunderstorm occurred yesterday at Ardrossan, and thunder was heard at Donaghadee.

SEA

Slight or smooth generally.

PROBABLE CHANGES IN SYSTEM NOW PREVALENT

With the present irregular distribution of pressure the weather is likely to remain in a somewhat variable state. The barometrical changes are, however, too slight to serve as the basis for any very definite forecasts.

FORECASTS

for the 24 hours ending at NOON on MAY 16TH 1889.

DISTRICTS.

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

FORECASTS.

E^{ly} winds, light; dull, unsettled, some rain.
 Light breezes, chiefly NE^{ly}, cloudy, rain locally.

DISTRICTS.



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

FORECASTS.

Light, variable breezes, cloudy, some rain.
 NW^{ly} or N^{ly} winds, light or moderate, changeable, some rain.

WARNINGS

None Issued.

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

YESTERDAY'S 2 P.M. REPORTS.

	Bar.	Dry.	Wet.	Wind.	Wen.	Sea.		Bar.	Dry.	Wet.	Wind.	Wen.	Sea.
Skudesnes ...	29.94	03	54	WNW 4	bc	2	Holyhead ...	29.82	53	51	NW 1	f	1
Sumburgh Head ...	29.87	47	47	NNE 2	f	4	Valencia ...	29.86	53	53	SW 2	om	2
Stornoway ...	29.80	46	46	E 4	p	4	Scilly ...	29.79	57	53	ENE 5	bc	4
Aberdeen ...	29.86	50	46	ESE 2	bc	2	Jersey ...	29.78	64	57	NNE 2	cg	2
Shields ...	29.84	48	44	E 2	c	2	Dungeness ...	29.83	53	53	SW 1	m	1
Ardrossan ...	29.79	56	53	NNE 1	cm	1	London ...	29.82	59	53	NW 2	o	2
Malin Head ...	29.82	51	50	N 2	bc	2	Yarmouth ...	29.86	52	50	NNE 2	bc	2
Mullaghmore ...	29.82	53	51	WSW 4	bc	2	Rochefort ...	29.89	61	59	WNW 2	bc	2
Belmullet ...	29.86	52	51	N 2	o	*							

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

The reports for yesterday morning showed that pressure had given way a little over the whole of southern, central, western and northern Europe, but that it had risen very slightly over southern Russia, and some parts of the Balks. Readings were very uniform except over the Mediterranean where a depression (noticed over Algeria on the 13th) was advancing northwards towards the southeast of France. The winds reported were light and exceedingly variable except over the Mediterranean, where a cyclonic circulation of wind was reported, varying in force from a moderate breeze to a fresh gale. The weather also varied greatly, being clear in some localities, cloudy in others, and rainy in a few places. Over southern Europe, however, it was overcast and unsettled, with rain at Nice and Turin; a good deal of rain had fallen in Algeria and the south of France during the previous 24 hours. Temperature had risen decidedly over Algeria, Corsica and the south of France, and to a smaller extent in some parts of Germany, and ranged from nearly 70° at the Italian stations to 60° and more over north Germany, to 50° and more at several of our own and the Scandinavian stations, and to less than 50° on our own northeast coasts, and in the north of Russia. The highest individual values were 69° at Naples, Leghorn and Florence, 68° at Brindisi and Buda Pesth, 67° at Trieste, Latina and Rome, 66° at Malta and La Galle, 64° at Nice, Lombard, Berlin and New Fahrwasser; the lowest were 45° at Shields, 46° at Spurn Head, Leith, Aberdeen and Sumburgh Head, 48° at Donaghadee, Oxford, Yarmouth and St Petersburg, and 49° at Archangel, Nain and Pembroke.

Very little change occurred later.

EXPLANATION OF COLUMNS GIVEN ON PAGE 1.

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

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

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

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

DAILY WEATHER REPORT

for Thursday 16th MAY 1889.
Issued by the Meteorological Office, 63 Victoria Street, London. R.H. SCOTT, Secretary.

STATIONS.	+ YESTERDAY EVENING.					8 A.M. TO DAY.										PAST 24 HOURS.		
	Barometer at 32° F. and Sea Level.	Temp. in Shade.	WIND.		Weather.	BAROMETER.		SHADE TEMP.			WIND.		Weather.	Sea. (0 to 9.)	SHADE TEMP.		Amount of Rainfall.	
			Dir.	Force. (0 to 12.)		Reading at 8 a.m. and Sea Level.	Difference from 8 a.m. yesterday.	Dry.	Wet.	Difference from 8 a.m. yesterday.	Dir.	Force. (0 to 12.)			Max.	Min.		
SCANDINAVIA.																		
Haparanda ..														*				
Hernösand ...	30.12	39	NE	4	0	30.06	+ .15	44	37	- 10	SW	2	c	*	59	39	—	
Stockholm ...	29.97	50	NNE	2	b	30.07	+ .19	46	39	- 12	NE	2	b	*	73	?	—	
Wisby ...	29.97	49	NW	4	b	30.02	+ .09	48	44	+ 1	SE	4	b	*	57	41	—	
Bodö ...	30.08	40	W	2	c	30.07	+ .01	41	39	- 1	SW	6	o	3	43	36	—	
Christiansund...	30.05	46	NE	6	b	30.08	+ .07	48	45	0	ENE	3	b	2	50	41	—	
Skudesnaes ...	29.98	58	WNW	2	bc	30.05	+ .10	61	53	+ 4	E	4	c	2	68	50	—	
Christiania Fjord (Færdar)	29.96	59	WNW	2	b	30.03	+ .08	54	51	+ 2	N	2	b	1	61	?	—	
Skagen (The Scaw)	29.94	54	ENE	1	b	29.99	+ .09	57	54	+ 2	ESE	1	b	1	63	50	—	
Fanö ...	29.88	59	E	2	c	29.93	+ .09	58	53	0	ENE	4	c	*	68	54	—	
Sumburgh Head	29.91	47	NE	2	o	30.02	+ .11	45	44	0	SSE	1	o	3	48	43	—	
Stornoway ..	29.80	50	SE	2	bc	29.91	+ .12	50	49	+ 3	SE	4	o	4	51	45	0.12	
Wick ...	29.85	48	SE	2	f	30.00	+ .16	49	48	+ 2	S	2	m	2	52	45	—	
Nairn ...	29.81	54	Z	0	bc	29.96	+ .16	53	49	+ 7	Z	0	bc	1	55	43	0.16	
Aberdeen...	29.91	45	SSE	2	o	30.03	+ .16	45	44	- 2	SSE	2	omg	2	48	44	—	
Leith ...	29.88	49	E	1	m	30.01	+ .19	47	46	- 1	E	1	of	*	51	45	—	
Shields ...	29.86	48	ESE	2	omv	30.00	+ .17	45	44	- 3	Z	0	f	2	50	42	—	
Spurn Head ...	29.89	45	E	2	o	29.98	+ .13	44	44	- 2	N	2	f	2	49	41	—	
York ...	29.84	56	S	1	o	29.95	+ .12	48	48	- 2	N	1	f	*	60	45	—	
Loughborough	29.88	56	ENE	1	o	29.99	+ .14	49	49	0	ENE	1	fur	*	61	46	—	
Ardrossan ...	29.86	54	S	1	bc	29.97	+ .19	50	49	+ 2	ENE	3	ofur	2	55	44	—	
Malin Head ...	29.84	55	WNW	1	o	29.92	+ .16	52	48	+ 3	NE	1	o	2	56	47	—	
Mullaghmore ...	29.87	53	WSW	2	c	29.92	+ .12	52	49	+ 2	SSW	2	c	2	56	46	—	
Belmullet ...	29.87	54	W	2	o	29.90	+ .08	54	51	+ 3	S	2	o	*	56	46	—	
Donaghadee ...	29.87	52	S	3	c	29.98	+ .16	50	49	0	SSE	4	c	2	54	48	—	
Barrow-in-Furness	29.87	54	W	2	b	29.97	+ .16	48	47	- 2	N	1	bc	*	57	45	—	
Liverpool (Bidston)	29.88	55	WNW	1	bc	29.98	+ .15	56	49	0	NNE	1	bm	2	61	47	—	
Holyhead ...	29.89	52	Z	0	b	29.97	+ .15	57	52	+ 6	Z	0	bcw	0	59	44	—	
Parsonstown ...	29.88	57	Z	0	o	29.94	+ .10	53	49	+ 3	Z	0	o	*	59	45	—	
Valencia ...	29.92	54	WNW	2	c	29.93	+ .05	53	51	+ 1	SSE	1	omp	1	59	47	0.05	
Roche's Point...	29.89	55	SW	3	bc	29.91	+ .06	53	50	- 1	S	1	o	3	58	47	—	
Pembroke ...	29.90	51	WNW	2	b	29.98	+ .15	52	51	0	S	1	bcf	0	55	46	—	
Scilly ...	29.93	55	WNW	3	b	29.99	+ .16	56	53	+ 2	WSW	1	c	3	57	47	—	
Prawle Point ...	29.87	56	WNW	3	bc	30.00	+ .19	54	52	- 1	W	1	omg	1	62	50	0.01	
Jersey ...	29.85	55	N	3	cpm	29.99	+ .23	60	56	+ 6	NW	1	bm	1	60	51	—	
Hurst Castle ...	29.86	63	NW	3	o	29.99	+ .19	58	56	+ 5	NNE	2	o	0	64	53	—	
Dungeness ...	29.83	51	NE	4	m	29.94	+ .18	51	50	0	N	3	m	1	57	47	—	
London ...	29.85	61	N	1	bm	29.98	+ .16	50	48	+ 1	NNE	1	f	*	64	46	—	
Oxford ...	29.91	53	NE	1	bc	30.00	+ .16	48	48	- 1	Z	0	om	*	61	45	—	
Cambridge ...	29.89	53	N	1	bc	29.99	+ .14	48	47	0	N	1	o	*	59	42	—	
Yarmouth ...	29.86	48	N	3	cf	29.93	+ .12	47	46	0	NNW	2	of	3	49	44	0.01	
Cuxhaven ...	29.78	54	NE	3	r	29.93	+ .03	53	52	- 5	NE	4	r	*	59	52	0.32	
Berlin ...	29.71	71	E	3	o	29.79	+ .03	59	57	- 7	E	5	o	*	77	59	0.67	
Wiesbaden ...	*	*	*	*	*	29.84	+ .09	64	61	+ 3	W	1	o	*	73	57	—	
Munich ...	29.83	59	SW	2	c	29.91	+ .12	60	57	- 2	NW	3	c	*	66	50	0.04	
GERMANY.																		
The Helder ...	29.80	54	NNE	2	c	29.84	+ .06	53	52	- 1	N	1	o	2	59	53	—	
Brussels ...	9 am	*	*	*	*	29.91	+ .17	52	52	- 4	WNW	3	o	*	63	50	0.08	
Cape Gris Nez...	?	49	NE	4	f	?	?	48	48	+ 1	N	3	f	3	52	46	—	
Paris ...	29.81	62	NNE	1	bc	29.96	+ .20	55	55	- 4	N	2	o	*	67	54	0.16	
Brest ...	30.00	56	N	3	o	?	?	54	50	+ 1	N	1	o	3	?	46	—	
Lorient ...	29.84	58	NW	3	o	29.98	+ .27	53	52	0	Z	0	m	2	59	50	—	
Rochefort ...	29.89	59	NNW	4	c	30.02	+ .23	55	55	+ 1	NNE	1	m	2	64	48	—	
Belfort ...	29.78	58	W	1	c	29.89	+ .09	59	56	- 1	W	1	o	*	?	55	0.12	
Lyons ...	29.84	75	NNW	2	o	29.95	+ .11	50	50	- 4	NNW	3	r	*	?	49	0.51	
Nice ...	29.83	57	SW	3	c	29.82	+ .07	62	56	0	Z	0	b	0	64	54	0.04	
Perpignan ...	29.87	60	SSW	1	o	29.97	+ .13	59	53	- 3	NW	3	c	*	76	54	0.36	
Biarritz ...	29.96	57	W	5	o	30.04	+ .18	56	52	0	WNW	3	o	2	61	54	—	
Corunna ...	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	—
Lisbon ...	30.02	61	WNW	3	o	30.04	+ .01	58	55	- 1	N	3	o	?	66	55	—	
FRANCE & NETHERLANDS.																		
PENIN-SULA.																		

For Explanation of Columns, see p. 4.

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

WEATHER CHARTS

for 8 a.m. on

Thursday, 16th May,

1889.

BAROMETER, WIND & SEA.

(Explanation of Map)

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

Sea Disturbance — where considerable, is shown thus.

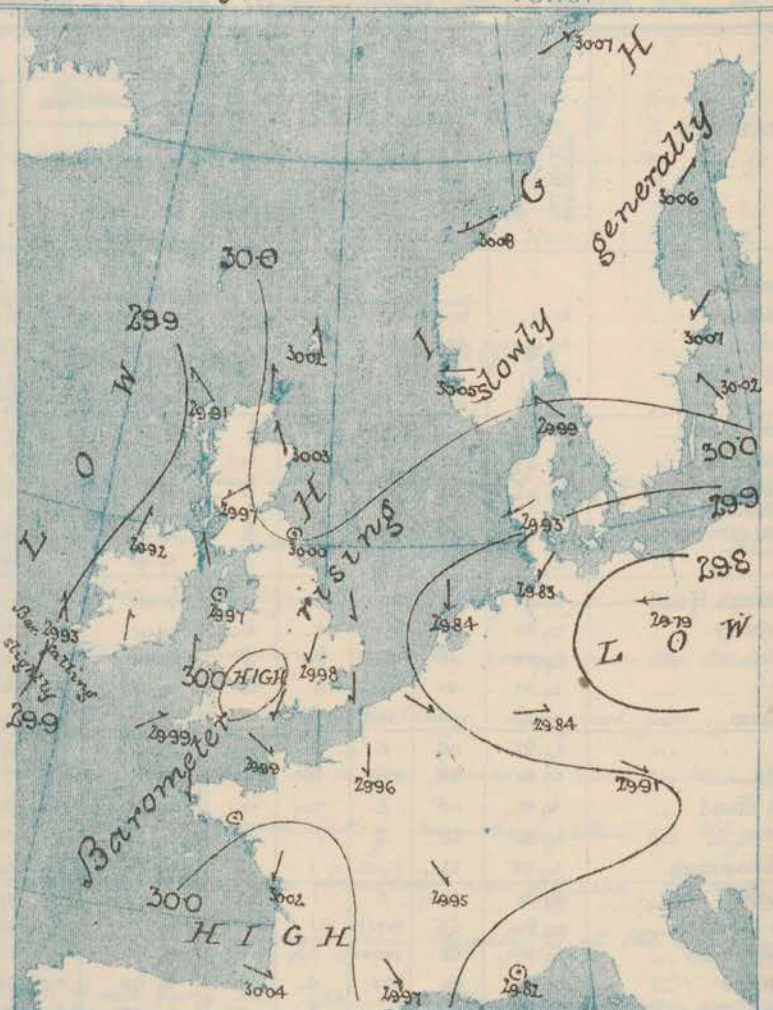
— Rough. — High

MEAN HEIGHT of the BAROMETER

at 8 a.m. for the month of 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.

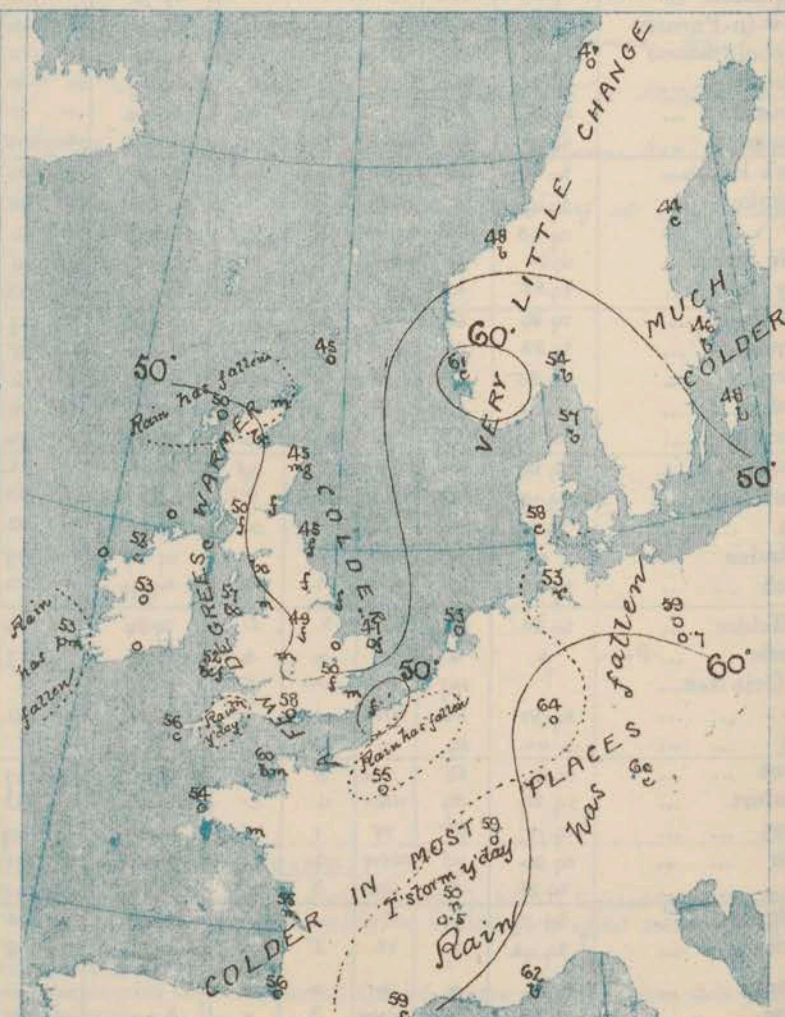
MEANS OF TEMPERATURE IN SHADE.

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	1.66
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	52.6	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	58.8	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	<p>Highest 30.00 ins. and more, over Finland, Scandinavia and the east of Scotland - also over Spain, and the W. of France.</p> <p>Lowest 29.8 ins. and less, in a depression over north Germany - 29.9 ins. and less off the west of Ireland.</p> <p>Gradients slight, especially over our Islands. Barometer falling a little at Valencia, rising elsewhere, most in France.</p>
TEMPERATURE	<p>Highest 64° at Wiesbaden, 62° at Nice, 61° at Skudermoes, 60° at Munich, 59° at Berlin and Perpignan, 58° at Hurst Castle, and 57° at Holyhead.</p> <p>Lowest 41° at Bodø, 40° at Hovvissand and at Spurn Head, 38° at Shields, Aberdeen and Lumbagh Head.</p> <p>It has risen in the west of our Islands since yesterday, fallen in the east, where much fog prevails.</p>
WIND	<p>Light generally, E^{ly} over Germany, NE^{ly} in Holland, NW^{ly} over France.</p> <p>N^{ly} airs and calms prevail over England - S^{ly} breezes in Ireland.</p> <p>S^{ly} and SE^{ly} in Scotland - SSW^{ly} (strong) at Bodø.</p>
WEATHER	<p>Fine at most of our western stations, but showery in the extreme west of Ireland.</p> <p>Foggy over England and on our northeast, east and southeast coasts. Dull, and rainy in Germany and the south of France - where rainfall has been considerable, and thunderstorms have occurred locally.</p>
SEA	<p>Moderate at Stornoway, slight to very smooth elsewhere.</p>


PROBABLE CHANGES IN SYSTEM NOW PREVALENT


Should the fall of the barometer at Valencia continue (as is probable) and spread to our other western stations, the wind is likely to become S^{ly} throughout our Islands, with showers in the west, and very fine, warm weather over England.

FORECASTS

for the 24 hours ending at NOON on 17TH MAY 1889.

DISTRICTS.	FORECASTS.	DISTRICTS.	FORECASTS.
0 SCOTLAND NORTH	S ^{ly} breezes, freshening; fair to showery.	6 SCOTLAND WEST	S ^{ly} breezes, light; fair as a whole warm.
1 SCOTLAND EAST		7 ENGLAND N.W.	
2 ENGLAND N.E.		8 ENGLAND S.W.	
3 ENGLAND EAST	calms and S ^{ly} breezes, light; fine, warm.	9 IRELAND NORTH	S ^{ly} breezes, freshening; fair to showery.
4 MIDLAND COUNTIES		10 IRELAND SOUTH	
5 ENGLAND SOUTH			
		WARNINGS	None Issued.

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

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

YESTERDAY'S 2 P.M. REPORTS.

	Bar.	Dry.	Wet.	Wind.	Wea.	Sea.		Bar.	Dry.	Wet.	Wind.	Wea.	Sea.
Skudesnaes ...	29.96	68	57	NW 2	c	2	Holyhead ...	29.89	54	57	NW 1	c	1
Sumburgh Head ...	29.91	46	45	NE 3	o	4	Valencia ...	29.92	58	52	NW 2	ov	2
Stornoway ...	29.79	51	50	SE 2	o	3	Scilly ...	29.90	56	52	WNW 2	bc	3
Aberdeen ...	29.89	48	46	SSE 2	og	2	Jersey ...	29.83	57	55	NNE 2	o	2
Shields ...	29.85	50	47	E 2	bm	2	Dungeness ...	29.81	55	53	ENE 3	m	2
Ardrossan ...	29.84	53	51	S 1	b	1	London ...	29.85	59	55	NNE 1	o	*
Malin Head ...	29.82	55	53	W 2	b	2	Yarmouth ...	29.85	49	48	NNE 3	cf	3
Mullaghmore ...	29.85	55	50	WSW 4	c	2	Rocheport ...	29.86	62	57	WNW 4	o	2
Belmullet ...	29.87	55	57	W 2	bc	*							

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

The distribution of pressure over Europe yesterday was exceedingly irregular. The highest reading, 30.0 ins. and upwards, were found in three areas lying respectively over the west of Norway, the south of Russia, and to the south-west of the Iberian Peninsula. The lowest reading, 29.8 ins. and less, were found in two large, and two smaller areas. One of the former covered the whole of central Europe, with the northern parts of France and Italy, while the other lay over Finland and the Baltic provinces, the smaller systems being found respectively over the west of Scotland, and to the southeast of Sicily. With these conditions the winds were exceedingly variable. Over Scandinavia, Denmark, the Baltic, north Germany, and the east and south of Great Britain the wind was chiefly NE^{ly}, and in Spain, the west of France, and the southwest of our Islands it was NW^{ly} or W^{ly}, but over central, southern and eastern Europe no decided current was observed. The weather was fine in Scandinavia, Denmark, Austria and the south of Russia, as well as in Algeria and the west of our Islands. Elsewhere, however, the sky was generally overcast, with mist or fog in many parts of Great Britain, and rain in the southwest of France and the north of Spain, as well as at Stornoway and Brussels. Temperature had fallen several degrees over Norway and the southern shores of the Baltic, but changed irregularly elsewhere; readings ranged from 70° and upwards, at some of the Austrian, and 65° and upwards, at several of the German and Mediterranean stations, to 45° or less over Lapland and northern Russia. The highest individual readings were 73° at Trieste, 72° at Buda Pesth, 69° at Loxina, Algiers and Spee, 68° at Brindisi and La Calle, and 66° at Berlin, Breslau, Florence, Leghorn and Barcelona; the lowest were 38° at Noparanda, 41° at Ulenborg, 42° at Bodo, 44° at St Petersburg, 45° at Sumburgh Head, 46° at Nairn and Spurn Head, and 47° at Wisby, Stornoway, Wick and Aberdeen. In the course of the day the barometer rose a little in all parts of western Europe, and the low pressure system noticed in those regions partially filled up.

EXPLANATION OF COLUMNS GIVEN ON PAGE 1.

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

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

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

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

DAILY WEATHER REPORT.

for Friday 17th May. 1889.

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

STATIONS.	† YESTERDAY EVENING.						8 A.M. TO DAY.										PAST 24 HOURS.		
	Barometer at 32° F. and Sea Level.	Temp. in Shade.	WIND.		Weather.		BAROMETER.		SHADE TEMP.			WIND.		Weather.	Sea. (0 to 9.)	SHADE TEMP.		Amount of Rainfall.	
			Dir.	Force. (0 to 12.)			Reading at 32° F. and Sea Level.	Difference from 8 a.m. yesterday.	Dry.	Wet.	Difference from 8 a.m. yesterday.	Dir.	Force. (0 to 12.)			Max.	Min.		
Haparanda ..	30.18	38	X	0	c		30.16	+0.9	38	36	+2	S	2	0	*	45	27	—	
Hernösand ...	30.23	37	X	0	c		30.24	+1.8	42	39	-2	NE	2	0	*	57	36	—	
Stockholm ...	30.16	44	X	0	c		30.21	+2.4	46	41	0	ENE	2	0	*	63	37	—	
Wisby ...	30.10	40	ENE	4	c		30.23	+2.1	43	40	-3	NNE	4	0	*	45	39	—	
Bodö ...	30.17	43	SW	2	0		30.19	+1.2	44	42	+2	SW	2	0	1	37	—	—	
Christiansund...	30.13	50	NNE	4	c		30.13	+1.0	52	50	+4	ENE	2	0	1	59	45	0.08	
Skudesnaes ...	30.07	63	NNW	2	c		30.20	+1.5	55	51	-6	X	0	0	2	69	54	—	
Christiania Fjord (Færdø)	30.04	60	WPN	2	c		30.19	+1.6	54	51	0	NNE	3	0	1	64	54	—	
Skagen (The Scaw)	30.05	56	X	0	c		30.16	+1.7	53	53	0	S	3	0	3	70	50	—	
Fanö ...	30.01	57	ENE	4	c		30.08	+1.5	54	50	-4	ENE	4	0	*	64	54	—	
Sumburgh Head	30.09	45	SE	1	0		30.12	+1.0	47	47	+2	NE	2	0	3	48	44	—	
Stornoway ...	30.00	54	E	3	0		30.02	+1.1	50	50	0	E	2	0	2	57	43	0.04	
Wick ...	30.05	48	SE	2	f		30.09	+0.9	47	48	0	SE	2	0	1	54	44	—	
Nairn ...	29.99	53	ENE	1	0		30.05	+0.9	50	48	-2	ENE	1	0	2	58	46	—	
Aberdeen...	30.07	46	SE	2	0		30.10	+0.7	47	47	+2	2	0	omp	1	49	43	—	
Leith ...	30.03	48	E	1	0		30.08	+0.7	46	46	-1	NE	1	0	*	53	44	—	
Shields ...	30.03	47	NNE	1	f		30.03	+0.3	47	46	+2	N	1	0	2	48	42	—	
Spurn Head ...	29.99	47	N	3	f		29.99	+0.1	51	50	+7	NNE	3	0	2	54	43	—	
York ...	29.95	64	E	1	c		29.98	+0.3	49	48	+1	N	1	0	*	70	44	—	
Loughborough	29.97	67	X	0	c		30.00	+0.1	50	50	+1	NNE	2	0	omp	73	47	—	
Ardrossan ...	29.97	59	ENE	2	c		30.02	+0.5	49	48	-1	NE	3	0	omp	60	47	0.17	
Malin Head ...	29.96	52	NW	1	0		29.98	+0.6	53	51	+1	S	1	0	omp	53	48	0.03	
Mullaghmore ...	29.94	52	ENE	2	0		29.97	+0.5	51	49	-1	SE	1	0	2	53	49	0.22	
Belmullet ...	29.93	52	SW	2	0		29.97	+0.7	53	52	-1	SW	2	0	*	53	51	0.37	
Donaghadee ...	29.98	54	S	2	bc		30.02	+0.4	50	49	0	SE	2	0	1	53	48	—	
Barrow-in-Furness	29.96	62	NW	2	bc		29.99	+0.2	54	52	+6	NW	1	0	*	63	48	0.05	
Liverpool (Bidston)	29.98	53	NNW	2	0		29.99	+0.1	53	51	-2	NNW	1	0	2	64	50	—	
Holyhead ...	29.99	53	SW	1	c		29.99	+0.2	50	49	-7	ENE	1	0	lang	60	50	0.01	
Parsonstown ...	29.94	54	X	0	0		29.99	+0.5	50	48	-2	2	0	0	*	60	48	0.22	
Valencia ...	29.92	52	SW	2	omp		30.00	+0.7	53	51	+2	E	1	0	bc	53	43	0.19	
Roche's Point...	29.96	51	SW	2	d		29.98	+0.7	53	51	0	S	1	0	3	56	49	0.20	
Pembroke ...	30.00	53	S	1	c		29.96	-0.2	50	50	-2	NW	3	0	2	56	49	0.15	
Scilly ...	30.09	53	SW	3	c		29.98	-0.1	53	51	-2	W	1	0	4	60	48	0.17	
Prawle Point ...	29.99	54	W	2	0		29.93	-0.7	52	52	-2	NNW	1	0	omp	61	50	0.37	
Jersey ...	30.00	60	W	3	bc		29.96	-0.3	53	54	-3	SW	3	0	omp	64	51	—	
Hurst Castle ...	29.99	56	SW	3	m		29.94	-0.5	57	53	-1	SW	2	0	0	63	48	—	
Dungeness ...	29.95	54	SW	3	m		29.95	+0.1	50	49	-1	2	0	0	0	60	46	—	
London ...	29.96	70	W	1	c		29.97	-0.1	51	50	+1	NE	1	0	omp	70	48	—	
Oxford ...	29.99	59	NE	1	c		29.97	-0.3	50	49	+2	NE	1	0	*	71	46	—	
Cambridge ...	29.97	66	NNE	1	c		29.97	-0.2	53	52	+5	2	0	0	*	69	46	—	
Yarmouth ...	29.96	50	N	3	cf		29.95	+0.2	53	53	+8	N	1	0	2	56	45	—	
Cuxhaven ...	29.87	50	NE	5	0		29.97	+1.4	54	53	+1	E	6	0	*	53	50	0.68	
Berlin ...	29.86	64	E	4	0		29.99	+2.0	58	54	-1	SE	4	0	*	68	57	—	
Wiesbaden ...	*	*	*	*	*		29.96	+1.2	60	57	-4	NNW	2	0	*	75	54	—	
Munich ...	29.89	59	W	2	0		29.95	+0.4	59	58	-1	NW	1	0	*	68	54	1.18	
The Helder ...	29.99	56	NE	2	c		29.88	+0.4	53	53	0	NNE	1	0	1	59	52	—	
Brussels ...	?	*	*	*	*		29.95	+0.4	52	52	0	WPN	1	0	*	57	50	0.04	
Cape Gris Nez...	?	49	WPN	2	f		?	?	51	50	+3	X	0	0	1	55	46	—	
Paris ...	29.97	61	NNE	2	c		29.99	+0.3	58	56	+2	NE	1	0	*	66	53	—	
Brest ...	30.08	56	N	2	0		?	?	51	51	-3	NNW	1	0	1	63	46	0.12	
Lorient ...	30.03	53	SW	3	0		29.99	+0.1	54	53	+1	SW	2	0	2	59	52	—	
Rocheport ...	30.04	62	NW	3	c		30.06	+0.4	57	54	+2	NNW	3	0	2	66	48	—	
Belfort ...	29.91	60	W	1	0		29.97	+0.8	58	57	-1	W	1	0	*	70	53	—	
Lyons ...	29.94	57	NNW	1	c		29.99	+0.4	57	53	+7	N	2	0	*	64	?	0.39	
Nice ...	29.79	62	SE	3	bc		29.87	+0.5	60	56	-2	NE	2	0	0	72	50	—	
Perpignan ...	29.93	66	NW	3	c		29.98	+0.1	65	56	+6	NW	2	0	*	71	54	—	
Biarritz ...	30.00	61	NNE	4	c		30.06	+0.2	57	53	+1	WPN	3	0	1	66	54	—	
Corunna ...	*	*	*	*	*		*	*	*	*	*	*	*	*	*	*	*	—	
Lisbon ...	30.06	57	NNW	4	0		30.10	+0.6	58	55	0	NNW	5	0	2	66	53	—	

WEATHER CHARTS

for 8 a.m. on

Friday, 17th May,

1889.

BAROMETER, WIND & SEA.

(Explanation of Map)

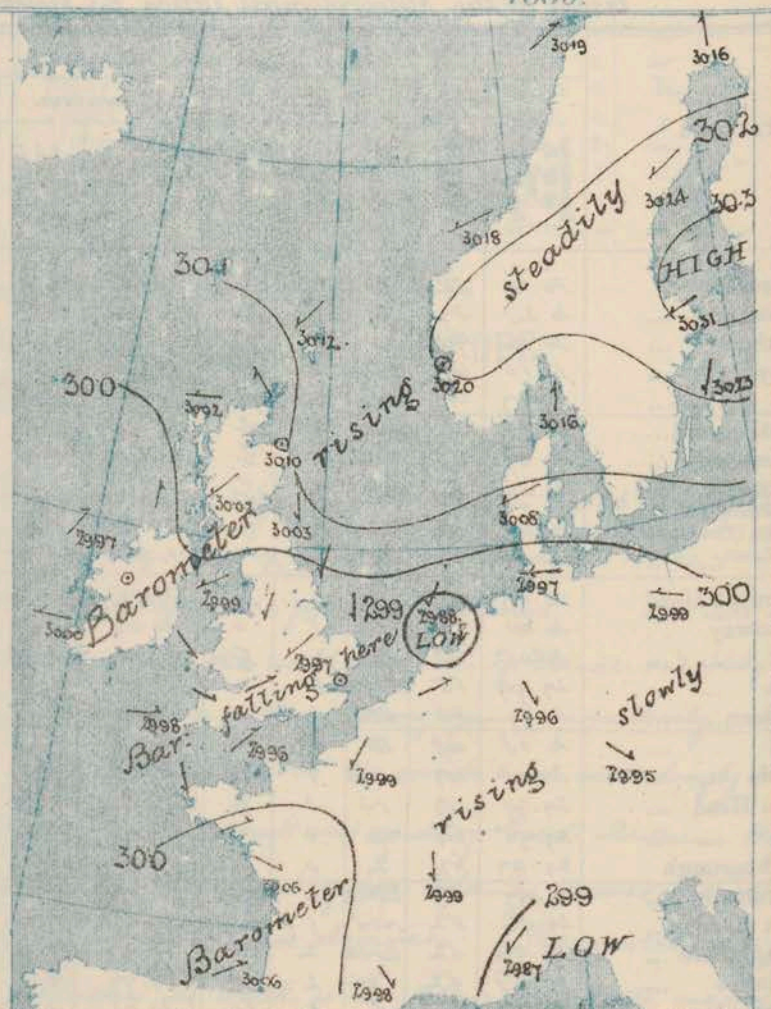
Barometer — Isobars are drawn for each tenth of an inch. Changes since previous morning are stated in words.
Wind — Arrows show the prevalent winds. They fly with the wind and their barbs and feathers refer to force, thus —
 * — forces above 10, * — forces 8 to 10,
 — forces 5 to 7, — forces 1 to 4,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

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

MEAN HEIGHT of the BAROMETER

at 8 a.m. for the month of 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.

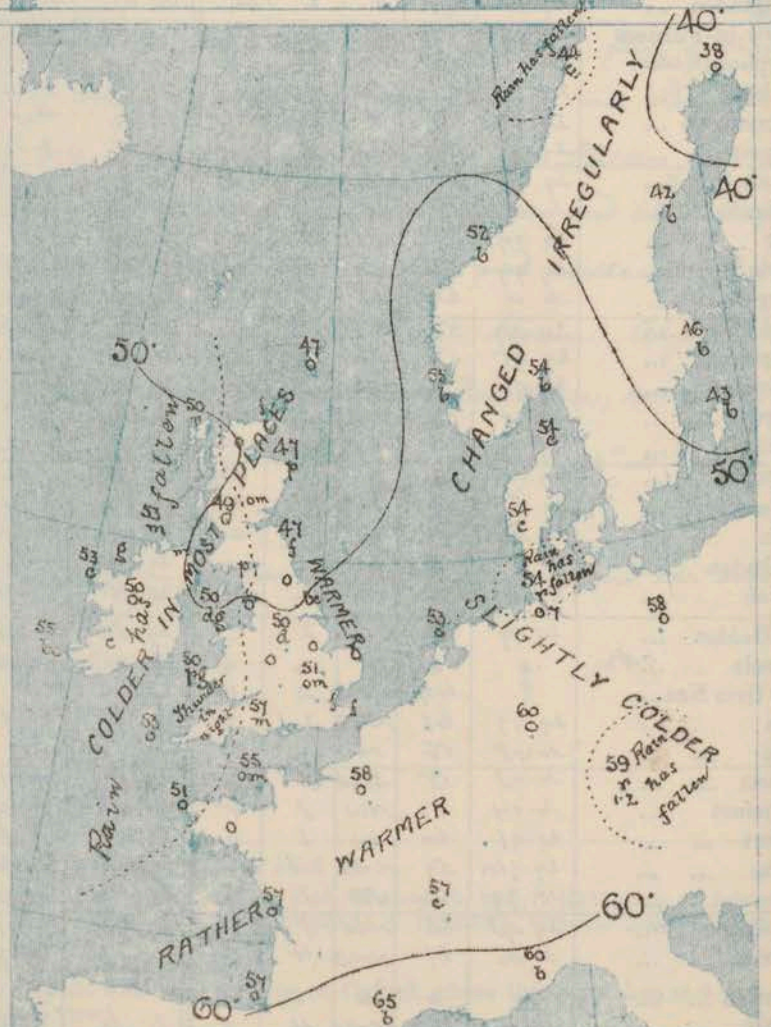
MEANS OF TEMPERATURE IN SHADE.

AND RAINFALL.

for the month of May.

STATIONS.	TEMPERATURE.				RAINFALL. (Inches)
	Daily Max	Daily Min	Dry at 8 a.m.	Wet	
Sumburgh Head	50.2	39.9	45.9	48.9	1.71
Stornoway	52.9	40.7	45.4	46.0	2.64
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	1.90
Leith	57.8	42.2	50.1	48.7	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	45.4	2.20
Donaghadee	55.9	43.6	49.5	47.3	2.15
Holyhead	56.0	46.1	50.3	47.3	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	48.0	51.7	48.7	3.05
Pembroke	55.1	46.0	49.9	47.4	1.97
Scilly	56.3	43.2	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	56.3	46.3	52.3	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	44.3	50.5	48.0	1.85

Notes — The Temperature means are for the 15 years 1871—85, the Rainfall means are mainly those for the 30 years 1856—85



GENERAL SITUATION AT 8 A.M.

PRESSURE

Highest, 30.31 in. at Stockholm, 30.2 in. and upwards over the more central parts of Scandinavia; 30.10 in. at Lisbon.
Lowest, 29.9 in. and less, in a small depression lying over Holland; 30.0 in. and less, over nearly the whole of Ireland, England, the Netherlands, Germany and the north and east of France.
Gradients slight. Barometer falling a little in the south of England and the north of France, but rising elsewhere.

TEMPERATURE

Highest, 65° at Perpignan, 60° at Wiesbaden and Nice, 55° at Hamburg, and 53° at Berlin, Paris, Belfast, and Lisbon.
Lowest, 38° at Haparanda, 42° at Helsingfors, 43° at Neby, 44° at Rode, and 46° at Stockholm and Seeth.
(During yesterday the thermometer rose to 70° at York and in London, 71° at Oxford, and 73° at Loughborough.)

WIND

Light from the E. or NE. over Denmark, North Germany, the North Sea, and the north and east of our Islands.
Light from the W. over the Channel and Bay of Biscay, and from N. in the south of France.
S. at most of the Irish stations; variable over the Netherlands, South Germany and Central England.

WEATHER

Fine in Scandinavia and the south of France, but cloudy or overcast elsewhere.
Mist or fog prevails in many parts of Great Britain, and rain is falling at some of the highest stations as well as at Cucknam and Munich.
Rain fell yesterday at many of our western stations, and thunder was heard at Brand Point during the night.

SEA

Slight or smooth generally.

PROBABLE CHANGES IN SYSTEM NOW PREVALENT

The shallow depression which is forming over the Bristol Channel is likely to occasion rain and possibly thunder in many parts of England. The distribution of pressure is favourable for the development of further disturbances over our southern districts.

FORECASTS

for the 24 hours ending at NOON on 18TH MAY 1889.

DISTRICTS.

FORECASTS.

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

E. winds, light; cloudy, rain locally.
NE. winds, light; dull, rain locally.
Light variable breezes; dull, misty, some rain, thunder locally.

DISTRICTS.

FORECASTS.

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

Same as No. 2
W. winds, light; dull, some rain.
SE. winds, light; fair generally.
Light variable airs; changeable, some rain.

WARNINGS

NONE ISSUED.

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

YESTERDAY'S 2 P.M. REPORTS.

	Bar.	Dry.	Wet.	Wind.	Wes.	Sea.		Bar.	Dry.	Wet.	Wind.	Wes.	Sea.
Skudesnaes ...	30.08	69	58	NW 2	2	2	Holyhead ...	29.99	56	52	NW 1	6	1
Sumburgh Head ...	30.06	47	46	SE 1	0	2	Valencia ...	29.94	53	51	SE 3	7	3
Stornoway ...	29.98	56	53	SE 3	6	3	Scilly ...	30.01	58	53	SE 2	2	4
Aberdeen ...	30.06	46	44	SE 2	0	2	Jersey ...	30.01	64	58	S 1	6	1
Shields ...	30.01	48	47	NE 1	6	2	Dungeness ...	29.97	52	50	SW 3	6	2
Ardrossan ...	29.98	59	53	NW 1	6	1	London ...	29.98	67	56	W 1	6	*
Malin Head ...	29.96	54	51	SW 1	0	1	Yarmouth ...	29.95	56	53	N 3	6	3
Mullaghmore ...	29.95	53	51	SE 3	0	2	Rochefort ...	30.05	66	60	NW 3	6	2
Belmullet ...	29.92	52	53	S 2	7	*							

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

Yesterday morning's reports showed a general, and in some places considerable, recovery of pressure over the whole of Western and Northwestern Europe, but a decrease in the southeast and over Russia, so that readings varied from 30.0 ins. and more over — (1) Scandinavia, the east of Scotland, — and (2) Spain and the southwest of France — to about 29.7 ins. over the Caucasus, and to 29.3 ins. and less, off the west coast of Ireland and Scotland. NE^{ly} and E^{ly} breezes of little strength were mainly prevalent over the Baltic, North Germany and Scandinavia, S^{ly} breezes on our own western coasts, N^{ly} air in England and the north of France, NW^{ly} in the south of France, and very variable breezes elsewhere. The weather, which had been very showery and thundery over France, Germany and Poland continued in a cloudy condition in those countries and rained in several places, but was foggy over the eastern and central parts of England, fair on our western coasts; in Algeria it was very fine. Temperature had fallen fast over Northern Europe, but was inclined to rise in the western parts of the British Isles. It was below 40° over Finland and the north of Russia and below 50° in the northwest of Norway and many parts of Great Britain, while it varied from 60° to 70° or more over Southeastern Europe, Algeria, and at several of the Spanish stations. The highest morning values were 71° at Buda Pesth, 69° at Lagnan, 68° at Brindisi, Trieste and Racow, 67° at Breslau, Limburg, and Algiers, 65° at Barcelona, 64° at Corunna; the lowest were 32° at Archangel, 36° at Haparanda and Kuopio, 37° at Hangö, 41° at Rodo, 44° at Helsingfors and Spurn Hd., 45° at Sumburgh Hd., Aberdeen, and Shields, 48° at Oxford and 50° in London. Later on the fog cleared off over England, and temperature rose to between 69° and 73° over Central England, while at Shields the thermometer did not rise above 48°.

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 18th May 1889.

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

STATIONS.	+ YESTERDAY EVENING.					3 A.M. TO DAY.										PAST 24 HOURS.		
	Barometer at 32° F. Sea Level.	Temp. in Shade.	WIND.		Weather.	BAROMETER.		SHADE TEMP.			WIND.		Weather.	Sea. (0 to 9.)	SHADE TEMP.		Amount of Rainfall.	
			Dir.	Force. (0 to 12.)		Reading at 32° F. and Sea Level.	Difference from 8 a.m. yesterday.	Dry.	Wet.	Difference from 8 a.m. yesterday.	Dir.	Force. (0 to 12.)			Max.	Min.		
SCANDINAVIA.																		
Haparanda ..	30.17	41	N	2	bc	30.23	+0.7	37	31	-1	NE	6	bc	*	48	25	—	
Hernösand ..	30.11	40	N	0	bc	30.13	-1.1	43	40	+1	NE	4	bc	*	53	30	—	
Stockholm ...	30.19	44	N	0	bc	30.09	-2.2	57	50	+11	WSW	2	bc	*	52	36	—	
Wisby ...	30.25	41	ESE	4	bc	30.19	-0.4	43	40	0	WSW	4	bc	*	54	36	—	
Bodö ...	30.23	44	N	2	o	30.22	+0.3	45	41	+1	N	2	o	1	48	41	—	
Christiansund...	30.19	52	NE	3	bc	30.14	-0.4	48	46	-4	ENE	5	bc	2	61	43	—	
Skudesnaes ...	30.17	56	SW	1	o	30.12	-0.8	58	51	+3	SE	1	o	2	66	52	—	
Christiania Fjord (Færder)	30.16	56	SW	3	bc	30.10	-0.9	56	53	+2	SW	3	bc	2	59	53	—	
Skagen (The Seaw)	30.17	57	W	1	bc	30.15	-0.1	54	49	-3	SW	1	bc	1	64	48	—	
Fanö ...	30.09	51	E	6	c	30.05	-0.3	48	47	-6	E	5	c	*	59	46	—	
BRITISH ISLANDS.																		
Sumburgh Head	30.13	54	NE	1	bc	30.01	-1.1	52	51	+5	NE	1	c	3	53	46	—	
Stornoway ...	30.01	57	N	0	o	29.88	-1.4	54	53	+4	E	3	o	3	61	45	—	
Wick ...	30.10	53	SE	2	bc	29.93	-1.6	49	48	0	SE	1	p	1	60	47	0.02	
Nairn ...	30.01	69	N	0	bc	29.91	-1.4	49	47	-1	N	0	o	1	70	49	0.01	
Aberdeen...	30.09	52	ENE	1	c	29.91	-1.9	47	47	0	ENE	1	ogd	2	58	46	0.14	
Leith ...	30.01	48	E	2	c	29.90	-1.8	48	48	+2	NE	1	om	*	53	45	0.06	
Shields ...	29.95	51	NE	3	o	29.90	-1.3	50	49	+3	S	2	om	2	53	45	0.04	
Spurn Head ...	29.89	50	N	1	o	29.92	-0.7	47	46	-4	ENE	3	o	3	56	45	—	
York ...	29.89	56	NE	2	o	29.89	-0.9	55	53	+6	E	1	o	*	69	47	—	
Loughborough	29.89	62	SW	1	c	29.92	-0.8	54	53	+4	NE	1	ogf	*	62	50	—	
Ardrossan ...	29.96	62	NE	3	c	29.90	-1.2	51	50	+2	ENE	1	om	1	63	47	—	
Malin Head ...	29.99	50	ESE	1	om	29.87	-1.1	52	51	-1	S	1	om	0	57	48	0.05	
Mullaghmore ...	29.98	53	WNW	1	o	29.87	-1.0	53	53	+6	SW	2	bc	2	57	50	—	
Belmullet ...	29.99	57	NNW	1	bc	29.87	-1.0	54	52	+1	S	2	c	*	58	46	—	
Donaghadee ...	29.97	53	N	3	c	29.92	-1.0	54	52	+4	ESE	3	bc	1	53	48	0.02	
GERMANY.																		
Barrow-in-Furness	29.90	59	NNW	2	c	29.90	-0.9	53	51	-1	NNE	1	c	*	65	50	—	
Liverpool (Bidston)	29.90	53	W	2	c	29.90	-0.9	58	53	+5	ESE	2	bc	2	59	49	—	
Holyhead ...	29.93	49	NW	2	gom	29.90	-0.9	50	50	0	SW	3	fg	2	57	47	0.31	
Parsonstown ...	29.97	58	N	0	p	29.92	-0.7	54	51	+4	N	0	bc	*	59	48	—	
Valencia ...	30.01	57	W	1	bc	29.91	-0.9	53	52	-2	SE	3	rm	4	60	45	0.02	
Roche's Point...	29.97	56	NW	2	c	29.94	-0.4	53	50	0	S	1	bc	2	57	46	—	
Pembroke ...	29.91	49	NNW	3	p	29.92	-0.4	50	50	0	NNW	1	ogm	0	57	48	0.80	
Scilly ...	29.98	52	W	4	bc	29.98	0.0	54	50	+1	W	4	bc	4	56	51	—	
Prawle Point ...	29.93	51	WSW	2	o	29.92	-0.1	54	53	+2	W	3	bc	2	54	46	0.16	
Jersey ...	29.99	54	W	3	c	30.01	+0.5	51	49	-4	WSW	4	ogf	3	53	50	0.23	
Hurst Castle ...	29.92	53	SW	3	p	29.96	+0.2	54	54	-3	SW	5	bc	1	62	50	0.01	
Dungeness ...	29.92	57	N	0	m	29.97	+0.2	50	49	0	WSW	4	o	3	58	49	0.04	
London ...	29.89	61	WSW	1	c	29.96	-0.1	53	49	+2	SW	1	o	*	68	51	—	
Oxford ...	29.90	53	WSW	1	o	29.96	-0.1	50	48	0	SW	3	o	*	65	49	0.23	
Cambridge ...	29.89	60	S	1	bc	29.95	-0.2	54	53	+1	SW	1	o	*	65	50	0.03	
Yarmouth ...	29.91	53	SSE	2	bc	29.94	-0.1	53	54	0	SSE	2	cf	3	58	49	—	
Cuxhaven ...	30.00	51	E	3	o	29.99	+0.2	54	53	0	SE	2	o	*	57	51	0.02	
Berlin ...	29.96	61	NE	2	c	29.96	-0.3	64	56	+6	E	1	bc	*	64	53	—	
Wiesbaden ...	*	*	*	*	*	29.94	-0.2	64	60	+4	N	0	o	*	70	53	—	
Munich ...	29.97	59	NW	2	c	29.98	+0.3	59	58	0	NW	1	o	*	68	57	—	
FRANCE & NETHERLANDS.																		
The Helder ...	29.96	52	SW	1	o	29.96	+0.8	57	56	+4	ENE	1	bc	1	57	50	—	
Brussels ...	*	*	*	*	*	29.97	+0.2	53	53	+1	WSW	3	p	*	66	48	0.08	
Cape Gris Nez...	?	58	N	0	c	?	?	50	48	-1	WSW	3	o	3	61	48	—	
Paris ...	29.95	63	SSE	1	o	30.04	+0.5	52	50	-6	NW	1	o	*	72	51	0.12	
Brest ...	?	53	NW	3	c	?	?	53	50	+2	W	5	o	4	57	46	0.28	
Lorient ...	30.04	55	W	5	bc	30.08	+0.9	53	50	-1	NNW	4	c	4	53	50	—	
Rochefort ...	30.10	58	NNW	5	c	30.15	+0.9	53	53	-2	NNW	4	bc	2	63	48	—	
Belfort ...	29.94	72	W	1	bc	29.96	-0.1	59	58	+1	W	1	p	*	78	53	0.16	
Lyons ...	29.96	64	NNE	2	c	30.04	+0.5	53	52	-2	NW	3	o	*	69	53	—	
Nice ...	29.84	67	WSW	3	bc	29.86	-0.1	61	58	+1	E	1	bc	0	70	53	—	
Perpignan ...	29.96	54	NW	3	bc	30.04	+0.6	59	53	-6	NW	3	bc	*	77	?	—	
Biarritz ...	30.15	57	NNW	4	o	30.19	+1.3	57	53	0	NNE	3	bcf	2	61	54	—	
PENINSULA.																		
Cortuna ...	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	
Lisbon ...	30.09	56	NNW	5	bc	30.25	-0.5	57	53	-1	N	5	bc	2	64	52	—	

For Explanation of Columns, see p. 4.

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

WEATHER CHARTS

for 8 a.m. on

Saturday, 18th May,

1889.

BAROMETER, WIND & SEA.

(Explanation of Map)

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

Sea Disturbance — where considerable, is shown thus.

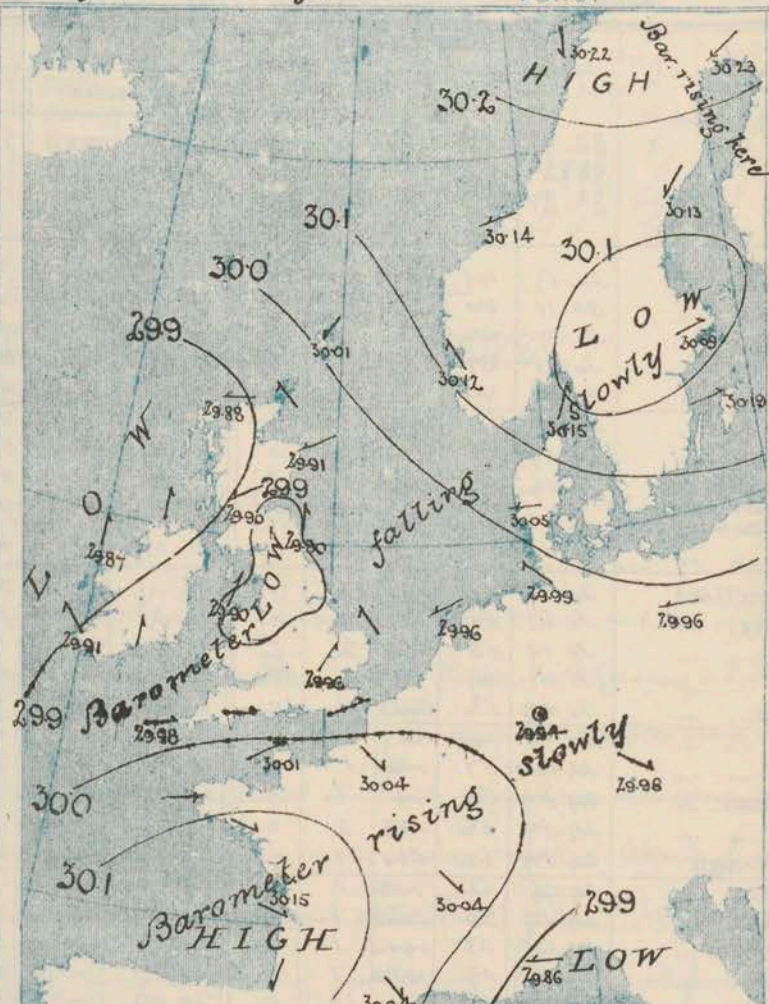
— = Rough. — = High.

MEAN HEIGHT of the BAROMETER

at 8 a.m. for the month of 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.

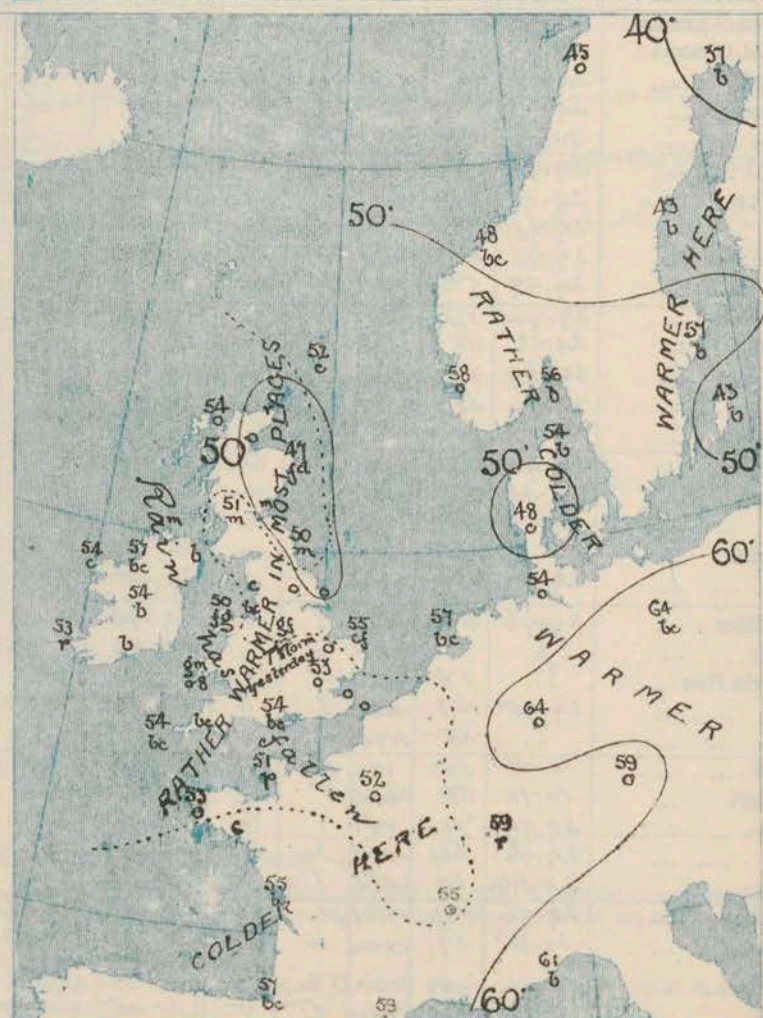
MEANS OF TEMPERATURE IN SHADE.

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	50.3	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	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	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	44.3	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 ins. and upwards, in the north of Scandinavia, 30.1 ins. and upwards, over the Bay of Biscay, the north of Spain and the south-west of France. Lowest, 29.9 ins. and less, on the west coast of Ireland and Scotland, and also over the north of England and south-west of France. Gradients slight and irregular. Barometer rising in France and the south of England and also in the north of Sweden, but falling elsewhere.
TEMPERATURE	Highest, 64° at Berlin and Wiesbaden, 61° at Kiev, 59° at Munich, Belfort, and Perpignan, and 58° at Skudermose and Liverpool. Lowest, 37° at Haparanda, 43° at Helsingfors and Nisby, 45° at Bodo, 47° at Aberdeen and Spurn Head, and 48° at Christiansund and Perth. During yesterday the thermometer rose to between 65° and 69° over Central England and to between 70° and 78° over Central and Southern France.
WIND	Fresh from the N.E. over the north of Scandinavia, and light from E. or S.E. over Denmark, the North Sea and the north of our Islands. Light from S. or S.E. in Ireland; variable over the north of England. Moderate from W. or S.W. over the Channel and south of England and from the N.W. in France. Fine in Scandinavia, Denmark, the coast and south of our Islands and the southern part of France.
WEATHER	Dull elsewhere, with rain and fog in Scotland and the northeast of England, and rain at Bournemouth and Belfort. Rain fell yesterday in many parts of the United Kingdom, and a severe thunderstorm was reported at Oxford.
SEA	Moderate on our south-west coast, but slight or smooth elsewhere.

PROBABLE CHANGES IN SYSTEM NOW PREVALENT

The small depression noticed yesterday over the Bristol Channel appears to have moved northwards, but a larger disturbance is beginning to approach our extreme western coast. Changeable showery weather seems likely to continue over the greater part of the United Kingdom.

FORECASTS

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

DISTRICTS.	FORECASTS.	DISTRICTS.	FORECASTS.
0 SCOTLAND NORTH	E ^{ly} and SE ^{ly} winds, light; dull, some rain.	6 SCOTLAND WEST	E ^{ly} and SE ^{ly} winds, light; fair to unsettled and some rain.
1 SCOTLAND EAST		7 ENGLAND N.W.	
2 ENGLAND N.E.	Light variable airs; dull, some rain.	8 ENGLAND S.W.	W ^{ly} to S ^{ly} winds, moderate or fresh; fair to showery.
3 ENGLAND EAST	SW ^{ly} winds, light or moderate; fair generally, but perhaps local showers.	9 IRELAND NORTH	S ^{ly} and SE ^{ly} winds, freshening; fair to unsettled and some rain.
4 MIDLAND COUNTIES		10 IRELAND SOUTH	
5 ENGLAND SOUTH			
		WARNINGS	NONE ISSUED.

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

YESTERDAY'S 2 P.M. REPORTS.

	Bar.	Dry.	Wet.	Wind.	Woa.	Sea.		Bar.	Dry.	Wet.	Wind.	Woa.	Sea.
Skudesnaes ...	30.18	56	55	WSW 2	bc	2	Holyhead ...	29.96	50	49	N 3	pmg	2
Sumburgh Head ...	30.15	53	51	SSE 2	c	3	Valencia ...	30.02	60	53	WNW 2	bc	2
Stornoway ...	30.02	52	51	Z 0	o	1	Scilly ...	29.97	56	53	WNW 3	c	4
Aberdeen ...	30.11	55	52	ENE 1	bc	1	Jersey ...	29.98	53	51	WNW 3	omg	3
Shields ...	30.01	54	51	N 2	bc	2	Dungeness ...	29.94	57	55	X 0	f	0
Ardrossan ...	29.98	62	58	NE 3	cm	1	London ...	29.91	64	57	ENE 1	f	0
Malin Head ...	30.00	53	52	SSE 3	om	1	Yarmouth ...	29.92	57	54	NNE 2	bc	2
Mullaghmore ...	29.99	56	53	NW 1	o	2	Rocheport ...	30.10	60	57	W 4	o	2
Belmullet ...	30.00	57	55	W 1	bc	2							

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

The reports for yesterday showed that pressure varied from between 30.1 ins. and 30.3 ins. in a high pressure area which lay over Finland, the Baltic, Scandinavia, and the northern part of the North Sea, and from 30.1 ins. and more over Portugal, and the northwest of Spain, to 29.8 ins. and less, over the southeast of Europe and Southern Russia, and to 29.9 ins. and less, in a long band which stretched from Austria across North Germany and the Netherlands to England and Ireland. The wind over Germany, the Baltic, the North Sea, and the northern part of our Islands was therefore mainly NE³, but varied a good deal locally; in Portugal it was N², but over the Mediterranean, Southern, and Central Europe it was very light and variable. The weather though fair over the northeastern and southern part of Europe, was cloudy elsewhere, and showing locally within the limits of the low pressure areas mentioned above; thunderstorms had occurred over Hungary, and in some part of Germany, France, and England. Temperature had again fallen below the freezing point in the northern part of Russia, and was below 40° over Finland and Central Russia also. It was below 50° over the Baltic and on our northeast coast, above that value elsewhere, and above 60° over the Mediterranean and Southern Europe. The highest morning values were 70° at Barcelona and Brindisi, 68° at Nikolaioff and Rudahest, 67° at Odesa, Trieste and Algiers, 66° at Lissa and Leghorn, 65° at Perpignan, 64° at Madrid, Oran, Naples and Kharkov. The lowest values were 28° at Archangel, 35° at Kuapis and St. Petersburg, 36° at Moscow, Aberdeen and Shields, and 49° at Wick, New-Fah-wasser and Mermel.

There was not much change reported later.

EXPLANATION OF COLUMNS GIVEN ON PAGE 1.

WEATHER.—*Barometer* 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 19th May 1889.*
 Issued by the Meteorological Office, 63 Victoria Street, London. R.H. SCOTT, Secretary.

STATIONS.	+ YESTERDAY EVENING.						8 A.M. TO DAY.										PAST 24 HOURS.		
	Barometer at 32° F. and Sea Level.	Temp. in Shade.	WIND.		Weather.	Reading at 32° F. and Sea Level.	BAROMETER.		SHADE TEMP.		WIND.		Weather.	Sea. (0 to 9.)	SHADE TEMP.		Amount of Rainfall.		
			Dir.	Force. (0 to 12.)			Difference from 8 a.m. yesterday.	Dry.	Wet.	Difference from 8 a.m. yesterday.	Dir.	Force. (0 to 12.)			Max.	Min.			
SCANDINAVIA.																			
Haparanda ..	30.29	34	NE	2	c	30.28	+0.05	35	32	-2	N	4	bc	*	37	30	—		
Hernösand ...	30.23	38	NE	4	c	30.29	+0.16	41	37	-2	NE	2	o	*	54	36	—		
Stockholm ...	30.05	52	E	2	c	30.15	+0.06	52	44	-5	ENE	4	c	*	70	39	—		
Wisby ...	30.06	47	SEW	4	c	30.10	-0.09	50	45	+7	NW	2	c	*	53	36	—		
Bodö ...	30.15	45	N	1	c	30.10	-0.12	49	42	+4	NE	4	c	2	?	39	—		
Christiansund...	30.03	48	NE	4	c	30.01	-0.13	50	48	+2	Z	0	m	0	54	43	—		
Skudesnaes ...	30.04	54	WNW	1	c	30.03	-0.09	53	49	-3	Z	0	c	2	61	46	—		
Christiania Fjord	30.02	53	WNW	2	c	30.06	-0.04	56	53	0	Z	0	c	1	59	54	—		
(Færdor)																			
Skagel. (The Scaw)	29.96	54	Z	0	c	30.03	-0.12	56	50	+2	N	1	c	0	63	48	—		
Fanö ...	29.97	56	SE	2	c	29.96	-0.09	53	48	+5	ENE	2	c	*	66	48	—		
BRITISH ISLANDS.																			
Sumburgh Head	29.91	48	SE	3	o	29.95	-0.06	47	47	-5	Z	0	f	2	53	45	—		
Stornoway ..	29.82	57	S	4	bc	29.84	-0.04	53	52	-1	S	2	f	2	61	49	—		
Wick ...	29.85	50	SE	2	m	29.91	-0.02	48	47	-1	S	2	f	2	62	39	0.01		
Nairn ...	29.83	57	E	1	bc	29.90	-0.01	49	49	0	Z	0	m	0	61	45	—		
Aberdeen...	29.88	52	SE	3	c	29.96	+0.05	45	45	-2	SE	1	f	2	53	42	0.01		
Leith ...	29.89	54	Z	0	bc	29.94	+0.04	46	46	-2	E	1	f	*	60	43	—		
Shields ...	29.88	51	SE	2	o	29.94	+0.04	52	51	+2	SW	1	f	2	61	43	—		
Spurn Head ...	29.90	51	SE	2	f	29.90	-0.02	49	48	+2	NW	3	o	3	56	46	0.07		
York ...	29.87	63	S	1	c	29.90	+0.01	58	53	+3	NW	1	c	*	64	48	—		
Loughborough	29.91	64	SE	1	c	29.93	+0.01	55	54	+1	NW	1	agst	*	67	51	0.02		
Ardrossan ...	29.88	60	Z	0	c	29.91	+0.01	53	53	+8	Z	0	bc	0	61	49	—		
Malin Head ...	29.84	53	WNW	1	bc	29.84	-0.03	56	50	+4	S	3	om	2	57	49	—		
Mullaghmore ...	29.86	56	Z	0	f	29.85	-0.02	56	50	-1	SE	4	og	4	65	48	0.01		
Belmullet ...	29.87	53	WNW	3	c	29.81	-0.06	53	53	-1	SW	6	om	*	58	47	—		
Donaghadee ...	29.90	53	S	2	bc	29.93	+0.01	49	49	-5	SE	3	m	1	57	47	—		
Barrow-in-Furness	29.91	52	NW	1	o	29.94	+0.04	50	49	-3	SW	1	f	*	61	48	—		
Liverpool (Bidston)	29.93	52	WNW	1	c	29.96	+0.06	51	49	-7	WNW	1	o	2	64	49	—		
Holyhead ...	29.91	54	Z	0	bc	29.96	+0.06	53	50	+3	SW	4	bc	2	59	48	—		
Parsonstown ...	29.89	61	Z	0	c	29.91	-0.01	53	51	+1	Z	0	c	*	67	50	—		
Valencia ...	29.93	57	WNW	2	bc	29.91	0.0	53	52	0	SE	5	rm	5	53	51	0.05		
Roche's Point...	29.93	53	SW	3	f	29.95	+0.01	54	52	+1	SW	3	c	3	57	49	—		
Pembroke ...	29.94	52	WNW	2	c	29.98	+0.06	52	51	+2	SE	1	ce	2	54	46	—		
Scilly ...	29.95	54	SW	2	f	29.98	0.0	54	52	0	W	3	o	5	60	51	—		
Prawle Point ...	29.97	57	W	4	c	29.98	+0.06	53	50	-1	SW	2	f	1	59	45	—		
Jersey ...	30.00	52	WNW	4	o	29.99	-0.02	54	52	+3	WNW	3	bc	3	54	49	0.29		
Hurst Castle ...	29.94	53	WNW	4	bc	29.95	-0.01	50	50	-4	NW	2	f	0	60	46	—		
Dungeness ...	29.94	53	SW	3	c	29.90	-0.07	53	53	+9	SW	3	bc	2	60	49	0.02		
London ...	29.93	57	SW	2	bc	29.92	-0.04	57	56	+4	NW	1	o	*	63	45	0.01		
Oxford ...	29.94	58	S	1	c	29.94	-0.02	52	51	+2	SW	1	p	*	61	48	—		
Cambridge ...	29.91	60	SW	1	c	29.92	-0.03	56	54	+2	N	1	o	*	65	51	0.07		
Yarmouth ...	29.92	54	SE	2	or	29.88	-0.06	54	53	-1	W	2	cm	2	57	50	0.58		
Cuxhaven ...	29.94	57	SE	2	c	29.89	-0.10	54	54	0	SE	2	c	*	62	53	—		
Berlin ...	29.90	66	SE	3	c	29.86	-0.10	64	56	0	SE	4	o	*	70	57	—		
Wiesbaden ...	*	*	*	*	*	29.95	+0.01	56	52	-8	NW	3	bc	*	68	54	0.24		
Munich ...														*					
FRANCE & NETHERLANDS.																			
The Helder ...	29.89	56	WNW	1	p	29.88	-0.03	53	52	-4	WNW	1	o	1	63	52	0.51		
Brussels ...	?	*	*	*	*	29.95	-0.02	52		-1	SW	1	o	*	59	48	0.28		
Cape Gris Nez...	?	53	SW	2	c	?	?	51		+1	?	6	c	0	53	48	—		
Paris ...	30.00	59	SW	1	bc	29.99	-0.05	52	50	0	SW	2	o	*	68	49	0.04		
Brest ...	?	53	SW	5	f	30.06	?	53	53	0	NW	1	o	2	59	41	0.04		
Lorient ...	30.08	54	W	4	o	30.01	-0.07	53	53	+2	WNW	1	bc	2	57	52	—		
Rochefort ...	30.17	57	NW	4	c	30.09	-0.06	57	53	+2	WNW	2	o	2	63	48	—		
Belfort ...	29.96	60	W	1	o	29.99	+0.03	56	50	-3	W	1	o	*	66	51	0.12		
Lyons ...	30.03	59	N	3	c	30.00	-0.04	55	49	0	WNW	3	c	*	63	49	—		
Nice ...	29.79	63	SW	3	c	29.81	-0.05	57	57	-4	NW	1	f	0	70	58	—		
Perpignan ...	30.00	65	NW	3	c	30.00	-0.04	61	52	+2	NW	2	c	*	72	48	—		
Biarritz ...	30.12	59	N	4	c	30.07	-0.12	55	51	-2	Z	0	c	0	66	48	—		
Corunna ...	*	*	*	*	*	30.05	-0.13	59	55	+1	NW	1	c	3	64	45	—		
Lisbon ...	29.95	60	NW	5	c	29.92	-0.13	61	56	+4	N	4	c	2	70	54	—		
PENINSULA.																			

For Explanation of Columns, see p. 2.

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

WEATHER CHARTS

for 8 a.m. on

Sunday, 19th May,

1889.

BAROMETER, WIND & SEA.

(Explanation of Map)

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

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

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

Sea Disturbance — where considerable, is shown thus.

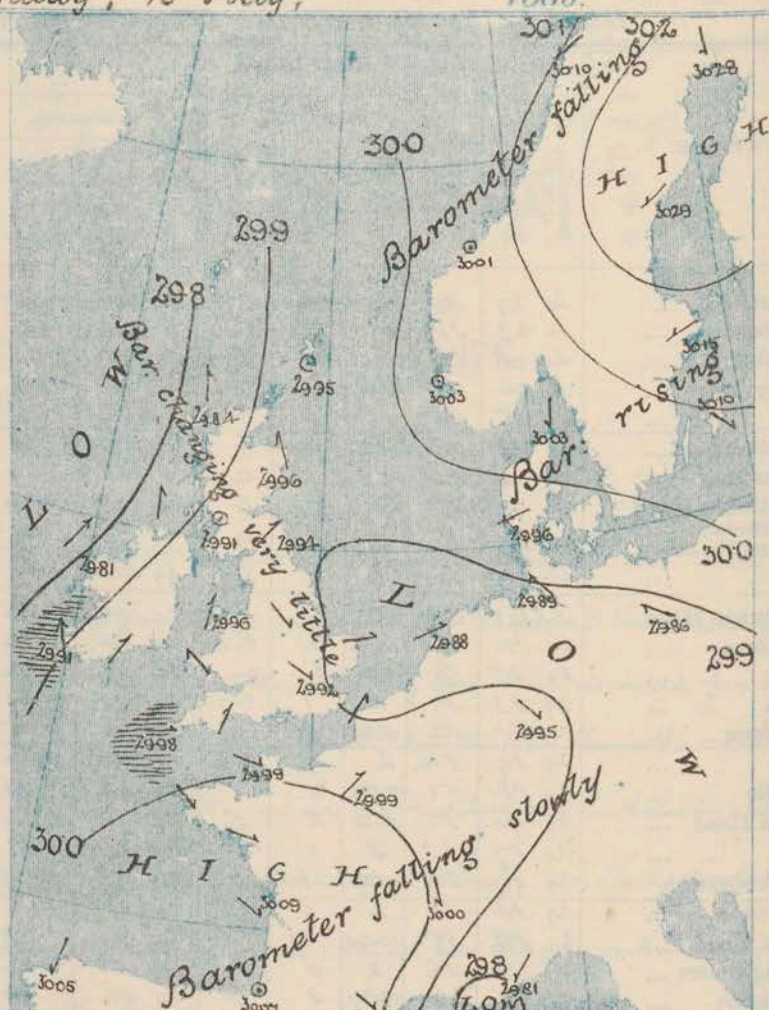
■ = Rough. ■ = High.

MEAN HEIGHT of the BAROMETER

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

During the 16 Years 1871 — 1886.

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.

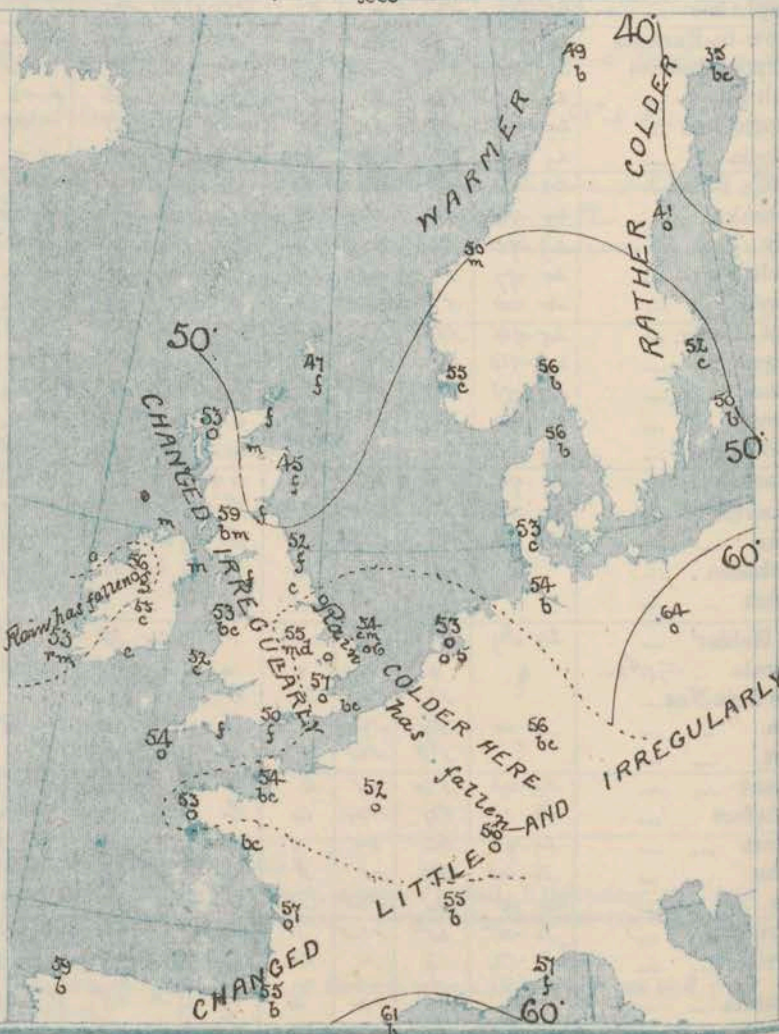
MEANS OF TEMPERATURE IN SHADE.

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	2.84
Wick	58.7	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	40.7	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	46.0	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	44.3	50.5	48.0	1.85

Note — The Temperature means are for the 16 years 1871 — 86, the Rainfall means are mainly those for the 30 years 1856 — 85.



GENERAL SITUATION AT 8 A.M.

PRESSURE	<p><i>Highest</i> 30.2 ins. and upwards, over the Gulf of Bothnia and the northern parts of Sweden; 30.0 ins. and upwards, over the Bay of Biscay, the north of Spain and the greater part of France.</p> <p><i>Lowest</i> 29.8 ins. and less, in a depression lying off our extreme north-west coast; 29.9 ins. and less, in a complex system lying over the Netherlands, the east of England and north Germany.</p> <p><i>Gradients</i> slight and irregular. <i>Barometer</i> rising in most parts of Great Britain, and also in Sweden, but falling slightly elsewhere.</p>
TEMPERATURE	<p><i>Highest</i> 61° at Berlin, 61° at Perpignan and Lisbon, 59° at Ardrossan, Dungeness and Corunna, and 58° at York.</p> <p><i>Lowest</i> 33° at Kaparanda, 41° at Kvernösand, 45° at Aberdeen, 46° at Leith, 44° at Sumburgh Head, and 48° at Wick.</p> <p>The highest maxima registered over our Islands yesterday were 64° at Loughborough and Parsonstown, 63° at Mullaghmore and Cambridge.</p>
WIND	<p>SE or SE^{ly} in the west and north of our Islands, light or moderate in force generally, but fresh or strong in the west of Ireland.</p> <p>Variable on our east and south coasts, light or moderate from the NE^{ly} in Sweden and Denmark.</p> <p>Light from the NW^{ly} in France; moderate from N at Lisbon.</p>
WEATHER	<p>Fine in Wales and the west of Scotland, as well as in Sweden, Denmark, the south of France, and some parts of Germany.</p> <p>Dull elsewhere with fog on many parts of the English and Scotch coasts, and rain over central England and the S. of Ireland.</p> <p>Rain fell yesterday in many isolated portions of the United Kingdom, the largest amount being 0.6 ins. at Lismore.</p>
SEA	<p>Rather rough at Valencia and Scilly, but slight or smooth elsewhere.</p>

PROBABLE CHANGES IN SYSTEM NOW PREVALENT

FORECASTS

For the 24 hours ending at NOON on 20TH MAY 1889.

DISTRICTS.

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

FORECASTS.

NONE ISSUED

DISTRICTS.


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


WARNINGS

FORECASTS.

NONE ISSUED

NONE ISSUED

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

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

YESTERDAY'S 2 P.M. REPORTS.

	Bar.	Dry.	Wet.	Wind.	Woa.	Sea.		Bar.	Dry.	Wet.	Wind.	Woa.	Sea.
Skudesnaes ...	29.06	50	52	S 4	C	2	Holyhead ...	29.91	57	54	SW 3	bc	2
Sumburgh Head ...	29.95	50	48	NE 3	O	4	Valencia ...	29.92	57	54	W 4	cm	4
Stornoway ...	29.82	57	53	SE 3	bc	2	Scilly ...	29.88	56	53	SW 4	O	3
Aberdeen ...	29.88	57	50	SE 2	C	3	Jersey ...	30.01	51	49	W 4	O	3
Shields ...	29.88	52	50	E 2	m	2	Dungeness ...	29.97	56	53	SW 4	bc	3
Ardrossan ...	29.88	59	56	SW 1	C	1	London ...	29.95	62	54	SW 2	C	*
Malin Head ...	29.86	57	51	ESE 2	O	O	Yarmouth ...	29.94	53	53	SE 2	bc	3
Mullaghmore ...	29.86	61	55	W 4	bc	2	Rochefort ...	30.16	62	56	NW 5	bc	2
Belmullet ...	29.87	57	50	SW 3	C	*							

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

The reports for yesterday morning showed that while the highest pressures of all 30.2 ins. and upwards, were found in two areas lying respectively over western Russia and the north of Scandinavia, the barometer was high, 30.1 ins. and upwards, over the Bay of Biscay, the west of France and the north of Spain. The lowest readings 29.8 ins. and less, were found in a shallow depression lying over the south of Austria and the northern parts of the Adriatic, but three other disturbances with readings below 29.9 ins. were lying respectively over the extreme west and northwest of our Islands, the north of England and the extreme north of Russia. The wind was E^{ly} or NE^{ly} over the greater part of Scandinavia, Denmark, the North Sea and central Europe, and N^{ly} or NW^{ly} over northern and central Russia. Light S^{ly} breezes were, however, reported in the west of our Islands, and moderate W^{ly} or SW^{ly} breezes in the south, while in France the wind drew into NW, and in Spain into NE or E. Over Italy and Algeria the wind was very variable. The weather was cloudy and foggy over the northern and central parts of the United Kingdom, and dull in Austria, Belgium, northern Italy, western Germany and the east of France, with rain at Brussels and Munich. Elsewhere, however, conditions were generally fine. Temperature had risen a little in our Islands, as well as over the Baltic and the northern part of Germany and Russia, but fallen elsewhere; readings ranged from a little above 65° over the Adriatic and the southern shores of the Mediterranean, and a little above 60° at some of the German stations, to a little below 40° over Lapland and northern and central Russia, and to below the freezing point in the neighbourhood of the White Sea. The highest individual readings were 69° at La Halle, 68° at Trieste, Lesina, Brindisi, 67° at Constantinople and Spas, 66° at Pesaro and Ancona, and 65° at Cagliari; the lowest were 28° at Archangel, 37° at Haparanda and Moscow, 39° at St Petersburg, 40° at Ulenborg, 41° at Kuopio and Kharkov, 43° at Helsingfors and Ulsby, and 46° at Bodo.

In the course of the day the depression over the northwest of our Islands and the north of England moved slowly northwards, but a new and shallow system began to form over Holland. The latter occasioned heavy rain in the east of England at night.

EXPLANATION OF COLUMNS GIVEN ON PAGE 1.

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

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

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

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

DAILY WEATHER REPORT.

for *Monday 20th May 1889.*
Issued by the Meteorological Office, 63 Victoria Street, London. R.H. SCOTT, Secretary.

STATIONS.	† YESTERDAY EVENING.						8 A.M. TO DAY.										PAST 24 HOURS.		
	Barometer at 32° F. and Sea Level.	Temp. in Shade.	WIND.		Weather.	Barometer. Reading at 32° F. and Sea Level.	Difference from 8 a.m. yesterday.	SHADE TEMP.			WIND.		Weather.	Sea. (0 to 9.)	SHADE TEMP.		Amount of Rainfall.		
			Dir.	Force. (0 to 12.)				Dry.	Wet.	Difference from 8 a.m. yesterday.	Dir.	Force. (0 to 12.)			Max.	Min.			
SCANDINAVIA.																			
Haparanda ..	30.21	32	SW	2	c	30.17	-.11	41	35	+6	WSW	2	o	*	42	23	—		
Hernösand ...	30.25	38	X	0	o	30.23	-.06	42	37	+1	X	0	c	*	45	36	—		
Stockholm ...	30.19	44	E	2	c	30.23	+.08	53	44	+1	ENE	2	o	*	63	37	—		
Wisby ...	30.16	46	E	4	c	30.19	+.09	53	46	+3	E	4	c	*	61	39	—		
Bodö ...	30.11	48	ENE	2	c	30.10	0.0	49	42	0	E	2	c	1	54	39	—		
Christiansund...	30.05	35	WSW	1	bc	30.13	+.12	46	45	-.4	WSW	2	f	1	59	45	—		
Skudesnaes ...	30.10	36	X	0	c	30.14	+.11	53	51	+.2	SE	2	bc	2	65	50	—		
Christiania Fjord (Fæder)	30.05	63	ENE	3	c	30.14	+.08	59	53	+.2	ENE	2	c	1	64	55	—		
Skagen (The Scaw)	30.03	55	X	0	c	30.14	+.11	57	50	+1	S	2	c	1	70	52	—		
Fanö ...	30.00	58	E	2	c	30.03	+.07	53	51	0	E	6	c	*	66	52	—		
BRITISH ISLANDS.																			
Sumburgh Head	29.97	46	SE	2	f	30.04	+.09	47	47	0	X	0	f	3	49	45	—		
Sornoway ...	29.90	54	S	3	f	30.00	+.16	52	52	-.1	S	2	f	2	60	48	0.06		
Wick ...	29.93	52	N	1	c	30.03	+.12	53	51	+.5	SE	1	bc	1	53	45	—		
Nairn ...	29.89	58	X	0	c	30.00	+.10	55	53	+.6	X	0	om	0	60	49	—		
Aberdeen...	29.98	48	ENE	2	f	30.06	+.10	47	47	+.2	ENE	1	bc	3	52	45	—		
Leith ...	29.95	54	E	1	m	30.06	+.12	54	53	+.8	NE	1	f	*	54	46	—		
Shields ...	29.96	52	ENE	1	c	30.07	+.13	55	51	+.1	X	0	f	2	56	47	—		
Spurn Head ...	29.94	50	NNE	2	o	30.05	+.15	51	48	+.2	NE	2	c	3	53	47	—		
York ...	29.91	64	E	1	c	30.04	+.14	55	53	-.3	NNW	1	o	*	68	50	—		
Loughborough	29.94	62	NE	1	o	30.08	+.15	53	52	0	NNE	2	om	*	63	49	—		
Ardrossan ...	29.93	57	SW	1	c	30.04	+.13	57	53	-.2	E	1	cm	0	64	51	—		
Malin Head ...	29.92	56	NNW	1	o	30.00	+.16	56	54	0	E	1	o	1	59	51	—		
Mullaghmore ...	29.92	53	W	3	o	29.99	+.14	57	55	+.1	WSW	1	om	3	58	53	0.01		
Belmullet ...	29.92	57	WSW	1	c	29.98	+.17	53	53	0	SE	2	o	*	58	51	0.05		
Donaghadee ...	29.95	53	S	3	c	30.06	+.13	50	50	+.1	ENE	4	m	2	57	48	—		
GERMANY.																			
Barrow-in-Furness	29.98	54	NW	2	c	30.05	+.11	53	51	+.2	NW	2	bc	*	56	49	—		
Liverpool (Bidston)	29.97	56	NNW	1	c	30.07	+.11	58	53	+.7	NNE	1	c	1	59	49	—		
Holyhead ...	29.98	54	SW	4	c	30.06	+.10	54	53	+.1	SW	3	bc	2	58	49	—		
Parsonstown ...	29.93	63	SW	1	bc	30.03	+.12	58	55	+.3	SE	1	o	*	66	53	—		
Valencia ...	29.96	56	SE	2	om	30.02	+.11	54	53	+.1	ENE	4	om	4	56	51	0.16		
Roche's Point...	29.98	53	SW	3	c	30.06	+.11	56	54	+.2	SW	2	c	2	57	52	—		
Pembroke ...	30.01	54	S	2	bc	30.09	+.11	52	51	0	S	1	f	2	56	47	—		
Scilly ...	30.03	57	W	4	bc	30.07	+.09	57	54	+.3	W	1	bc	4	58	49	—		
Prawle Point ...	29.98	54	W	3	c	30.07	+.09	59	55	+.6	NNW	1	c	0	59	46	—		
Jersey ...	30.01	52	NNW	2	c	30.06	+.16	56	54	+.2	NNW	2	cm	3	56	49	—		
FRANCE & NETHERLANDS.																			
Hurst Castle ...	29.95	53	WSW	2	p	30.05	+.10	56	56	+.6	NNE	2	com	1	60	53	0.19		
Dungeness ...	29.9	57	SW	2	m	30.02	+.12	50	50	-.9	SW	2	f	2	61	49	0.19		
London ...	29.93	53	N	1	o	30.04	+.12	53	53	-.2	NE	1	ym	*	60	53	0.20		
Oxford ...	29.98	56	NW	1	o	30.07	+.13	53	53	+.3	SW	1	o	*	57	51	0.18		
Cambridge ...	29.96	58	N	1	p	30.06	+.14	52	51	-.4	NW	1	p	*	?	49	0.04		
Yarmouth ...	29.89	53	N	1	c	30.02	+.14	52	51	-.2	N	1	cf	2	57	48	0.01		
Cuxhaven ...	29.91	52	X	0	p	29.96	+.07	53	53	-.1	ENE	2	o	*	64	52	0.14		
Berlin ...	29.88	64	N	2	o	29.95	+.09	63	56	-.1	ENE	2	c	*	72	59	0.08		
Wiesbaden ...	*	*	*	*	*	30.01	+.06	54	53	-.2	X	0	p	*	61	52	0.12		
Munich ...	29.96	53	X	0	p	29.99	*	50	50	*	W	4	p	*	59	50	0.39		
PENINSULA.																			
The Helder ...	29.96	54	NW	1	c	30.01	+.13	54	52	+.1	NW	1	c	1	59	52	—		
Brussels ...	*	*	*	*	*	30.03	*	54	53	*	SW	1	o	*	66	51	0.20		
Cape Gris Nez...	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*		
Paris ...	29.97	58	NW	2	c	30.04	+.05	49	48	-.3	NW	1	f	*	64	46	—		
Brest ...	?	57	N	2	c	?	?	48	45	-.5	X	0	m	2	59	46	0.04		
Lorient ...	30.02	58	NNW	4	bc	30.08	+.07	50	49	-.5	NNW	1	c	3	61	48	—		
Rochefort ...	30.06	60	NNW	4	c	30.08	-.01	55	54	-.2	N	2	c	2	66	48	—		
Belfort ...	29.95	65	W	1	o	29.98	-.01	54	52	-.2	W	1	o	*	?	42	0.12		
Lyons ...	29.94	62	NNE	1	c	29.99	-.01	53	48	-.2	NNW	1	c	*	66	?	—		
Nice ...	29.78	58	SW	2	f	29.82	+.01	58	56	+.1	E	1	m	1	64	54	—		
Perpignan ...	29.90	70	NW	3	c	29.97	-.03	64	55	+.3	NW	2	c	*	76	52	—		
Biarritz ...	30.01	61	NNW	4	c	30.06	-.01	57	53	+.2	E	2	c	3	64	52	—		
PENINSULA.																			
Corunna ...	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*		
Lisbon ...	29.92	53	NNW	5	c	29.98	+.06	57	53	-.4	NW	2	c	3	70	54	—		

For Explanation of Columns, see p. 4.

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

WEATHER CHARTS

for 8 a.m. on

Monday, 20th May,

1889.

BAROMETER, WIND & SEA.

(Explanation of Map)

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

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

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

Sea Disturbance — where considerable, is shown thus.

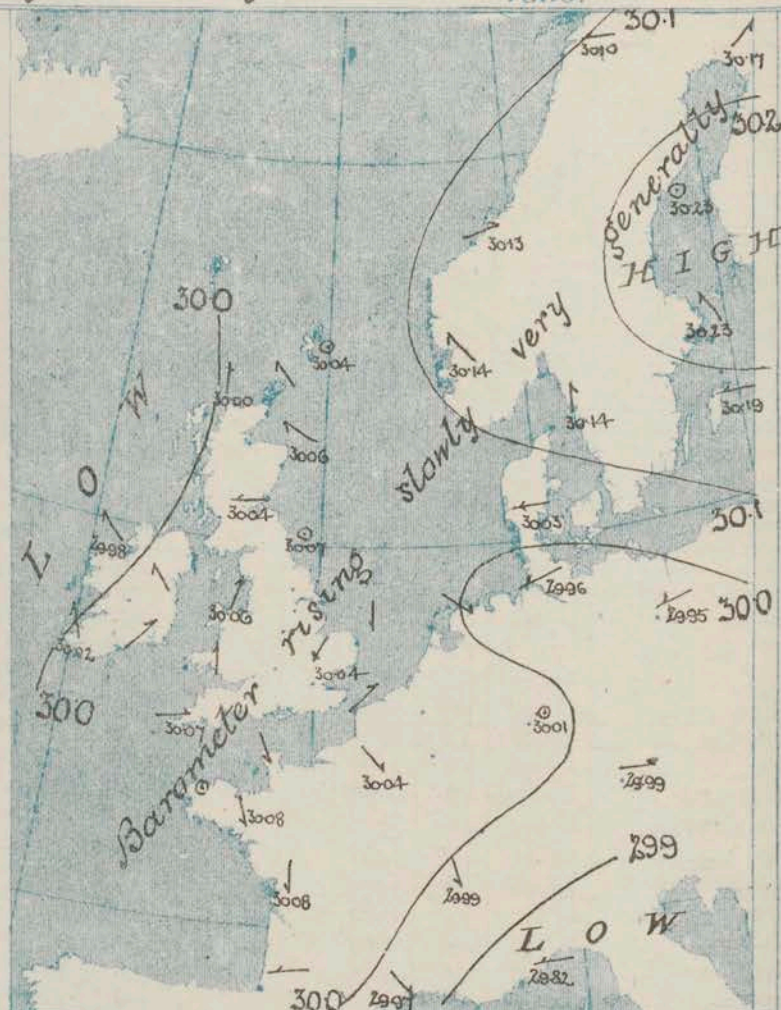
— = Rough. — = High.

MEAN HEIGHT of the BAROMETER

at 8 a.m. for the month of 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	30.003
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.

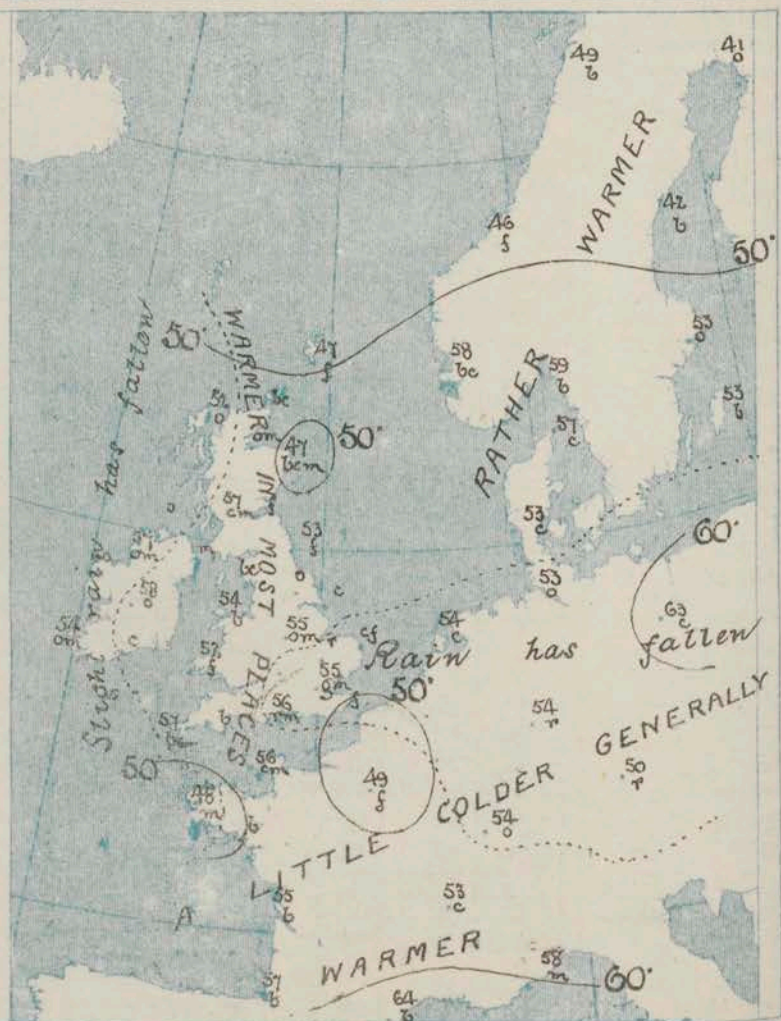
MEANS OF TEMPERATURE IN SHADE.

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	50.6	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	52.3	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

Notes — The Temperature means are for the 15 years 1871 — 86, the Rainfall means are mainly those for the 10 years 1868 — 85.



GENERAL SITUATION AT 8 A.M.

PRESSURE	<p>Highest, 30.1 ins: to 30.3 ins: over Scandinavia — 30.0 ins: and more over nearly the whole of the British Islands.</p> <p>Lowest, about 29.8 ins: over the Gulf of Genoa, 29.95 ins: over North Germany and off the west of Ireland.</p> <p>Gradients very slight — almost nil over the British Islands. Barometer rising slowly at all stations.</p>
TEMPERATURE	<p>Highest, 64° at Perpignan, 63° at Berlin, 53° at Hawle Point and Gaarder, 51° at Binnity and Scilly.</p> <p>Lowest, 41° at Haparanda, 42° at Herisand, 46° at Christiansund, 47° at Seaburgh Head and Aberdeen, 49° at Paris.</p> <p>The thermometer rose yesterday to 76° at Perpignan, 72° at Berlin, and to between 60° and 66° over Central England.</p>
WIND	<p>Variable from the SErd and Srd in the west of our Islands and over the south of Scandinavia.</p> <p>Extremely variable and light elsewhere — calm in several places.</p>
WEATHER	<p>Foggy, misty, and gloomy over the eastern parts of the Kingdom, rain locally in the southeast.</p> <p>Fair at most western stations, dull in the extreme west, variable on the Continent.</p> <p>Rain has fallen generally, over Germany, the Netherlands, and the southeast of England — slight showers in the extreme northwest.</p>
SEA	<p>Moderate off our extreme southwestern coasts, slight or smooth elsewhere.</p>

PROBABLE CHANGES IN SYSTEM NOW PREVALENT

There is no indication of any important change at present.

FORECASTS

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

DISTRICTS.

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

FORECASTS.

SEth airs; hazy or foggy to fair.

Variable airs and calms; dull, gloomy, misty, slight rain occasionally.

DISTRICTS.


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


WARNINGS

FORECASTS.

Varying and Shairs; fair as a whole.

NONE ISSUED.

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

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

YESTERDAY'S 2 P.M. REPORTS.

	Bar.	Dry.	Wet.	Wind.	Wea.	Sea.		Bar.	Dry.	Wet.	Wind.	Wea.	Sea.
Skudesnaes ...	29.86	65	51	W 4	bc	1	Holyhead ...	29.98	55	52	SW 4	bc	2
Sumburgh Head ...							Valencia ...						
Stornoway ...	29.85	59	57	S 5	0	5	Scilly ...						
Aberdeen ...							Jersey ...	30.01	55	52	W 2	bc	2
Shields ...							Dungeness ...	29.92	58	51	SW 2	bc	2
Ardrossan ...							London ...						*
Malin Head ...	29.87	56	53	SW 2	0	2	Yarmouth ...						
Mullaghmore ...							Rochefort ...	30.08	64	58	W 4	bc	2
Belmullet ...	29.88	58	54	SW 2	bc	*							

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

The distribution of pressure over Europe yesterday was exceedingly irregular. The barometer was highest, 30.2 ins. and upwards, over Finland and the north of Sweden, and high, 30.0 ins. and upwards, over the Bay of Biscay, the north of Spain and the greater part of France, but areas of low reading, 29.8 ins. and less, were found respectively off the northwest of our Islands and the south of France, while a large and irregularly formed system with similar readings stretched from Turkey across the Adriatic, and central Italy to Switzerland. The wind was Ely (NE to SE) over Scandinavia, Denmark and the greater part of central Europe, and NWly over northern Russia. In the west and north of our Islands light to fresh breezes from S. or SE were reported, while in the east and south the wind was light and variable, but in France it was chiefly NWly, while in Spain and western Algeria it drew into N or NE. The weather was cloudy over the greater part of the United Kingdom, as well as in central France, Algeria and the south of Germany; fog prevailed on many of the English and Scotch coasts, and rain was falling over central England, as well as at Valencia. Elsewhere the weather was mostly fine, but snow was reported at Archangel. Temperature had changed very irregularly, and readings ranged from between 65° and 70° at most of the Mediterranean stations, and from a little above 60° in Spain and central Germany, to below 40° over Lapland, and northern Russia, and to a few degrees below the freezing point in the neighbourhood of the White Sea. The highest individual readings were 70° at Brindisi, 68° at Lefina and La Cotta, 67° at Cagliari, 65° at Turin, Pesaro, Naples, Sangüinore, Barcelona and Nemours, and 64° at Berlin, Prague, Toulon and Palermo; the lowest were 27° at Archangel, 34° at Kuopio, 31° at Haparanda, 36° at Uleaborg, 39° at Moscow, 41° at Hernösand and Helsingfors, 44° at Haparanda and 45° at Aberdeen. In the course of the day the barometer rose slightly in most parts of western Europe, but the winds remained variable, and cloudy weather continued over the greater part of the United Kingdom, with fog on the British coasts, and rain over England.

SUMMARY OF CHANGES IN THE WEATHER OVER THE BRITISH ISLANDS AND THEIR NEIGHBOURHOOD FROM THE 12th TO THE 18th MAY 1889.

The weather of the past week was somewhat unsettled and changeable, with occasional thunderstorms in many districts. With the exception of one or two heavy local falls, however, the amount of rain was very slight, and in some parts of England including the Metropolis, there was scarcely any at all.

Barometrical pressure has been exceedingly uniform, but its distribution has been very irregular. The highest readings have been reported almost continuously from Scandinavia or north Russia, but as a rule pressure has been somewhat high over or to the southwest of the Iberian Peninsula, and conditions have therefore been favourable for the formation of shallow depressions over our Islands and their neighbourhood. As a matter of fact several small disturbances have appeared over the United Kingdom, but with the exception of a well defined system which advanced from Germany to the east of England on the 12th, and which subsequently filled up, no depression of importance has been observed. The winds have been usually from the E. over the more northern parts of our area, but in the south they have varied greatly in direction, in force they have been light or moderate generally. Heavy amounts of rain were experienced over Germany on the 16th, and in the Scilly Islands on the 17th, but at other times the showers although rather frequent in the west, were everywhere slight.

Temperature was low over Great Britain on the 12th, when N. breezes prevailed for a time, but the thermometer subsequently rose gradually, the highest readings being recorded on the 16th, when maxima exceeding 70° were recorded over central England. In Germany and France the thermometer has frequently risen above 75°.

EXPLANATION OF COLUMNS GIVEN ON PAGE 1.

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

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

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

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

DAILY WEATHER REPORT.

for Tuesday 21st May. 1889.
Issued by the Meteorological Office, 63 Victoria Street, London. R.H. SCOTT, Secretary.

STATIONS.	† YESTERDAY EVENING.					8 A.M. TO DAY.										PAST 24 HOURS.		
	Barometer at 32° F. and Sea Level.	Temp. in Shade.	WIND.		Weather.	BAROMETER.		SHADE TEMP.			WIND.		Weather.	Sea. (0 to 9.)	SHADE TEMP.		Amount of Rainfall.	
			Dirac.	Force. (0 to 12.)		Reading at 32° F. and Sea Level.	Difference from 8 a.m. yesterday.	Dry.	Wet.	Difference from 8 a.m. yesterday.	Dirac.	Force. (0 to 12.)			Max.	Min.		
SCANDINAVIA.																		
Haparanda ..	29.96	37	Z	0	0	30.00	-.17	46	40	+ 5	N	2	bc	*	46	23	—	
Hernösand ...	29.89	44	Z	0	0	30.10	-.13	55	49	+ 13	Z	0	b	*	?	36	—	
Stockholm ...	30.15	46	SSE	2	0	30.11	-.12	63	54	+ 10	W	2	b	*	63	39	—	
Wisby ...	30.19	46	E	4	0	30.18	-.01	54	47	+ 1	WSW	4	b	*	61	39	—	
Bodö ...	30.09	46	Z	0	0	29.92	-.18	43	41	- 6	ENE	2	r	1	50	41	0.12	
Christiansund...	30.14	58	Z	0	0	30.12	-.01	55	50	+ 9	WSW	5	bc	2	58	?	—	
Skudesnaes ...	30.20	55	Z	0	0	30.19	+ .05	57	52	- 1	ESE	2	bc	2	65	48	—	
Christiania Fjord	30.13	59	WSW	3	0	30.17	+ .03	58	52	- 1	N	3	b	1	61	57	—	
(Færdar)																		
Skagen (The Seaw)	30.10	55	Z	0	0	30.19	+ .05	60	52	+ 3	W	1	b	0	64	46	—	
Fanö ...	30.12	57	E	4	0	30.15	+ .12	59	54	+ 6	E	2	b	*	68	48	—	
BRITISH ISLANDS.																		
Sumburgh Head	30.08	49	SSE	1	0	30.06	+ .02	53	50	+ 6	Z	0	c	2	55	46	—	
Stornoway ..	30.04	52	S	2	r	29.98	-.02	57	57	+ 5	SW	4	0	4	57	49	0.07	
Wick ...	30.05	55	S	1	0	30.05	+ .02	56	54	+ 3	S	1	0	1	58	47	—	
Nairn ...	30.02	56	Z	0	0	30.04	+ .04	59	57	+ 4	Z	0	b	1	62	49	—	
Aberdeen...	30.09	59	SSE	3	0	30.12	+ .06	56	52	+ 9	SE	2	b	2	62	46	—	
Leith ...	30.07	54	NE	1	0	30.11	+ .05	58	53	+ 4	Z	0	bm	*	59	44	—	
Shields ...	30.09	56	E	1	0	30.13	+ .06	54	52	+ 1	E	2	b	2	61	45	—	
Spurn Head ...	30.09	54	NE	2	0	30.12	+ .07	52	45	+ 1	NE	2	b	2	55	51	—	
York ...	30.04	67	SE	2	0	30.11	+ .07	56	52	+ 1	NNE	1	b	*	75	44	—	
Loughborough	30.09	69	ESE	1	0	30.14	+ .06	58	54	+ 3	NNW	2	bm	*	72	46	—	
Ardrossan ...	30.08	58	E	1	0	30.10	+ .06	60	56	+ 3	ENE	1	cm	0	64	52	—	
Malin Head ...	30.04	59	Z	0	0	30.03	+ .03	61	60	+ 5	S	8	cp	1	63	56	0.04	
Mullaghmore ...	30.04	62	SSW	2	r	30.05	+ .06	61	54	+ 4	SE	1	bc	2	64	55	0.10	
Belmullet ...	30.01	57	SSW	2	0	30.02	+ .04	55	54	+ 2	SW	4	0	*	57	52	0.03	
Donaghadee ...	30.09	51	SSW	3	0	30.11	+ .05	53	52	+ 3	SE	4	bc	2	54	49	—	
Barrow-in-Furness.	30.09	58	NN	3	0	30.10	+ .05	53	51	0	NE	2	bc	*	61	57	—	
Liverpool (Bidston)	30.11	58	NNW	1	0	30.13	+ .06	61	55	+ 3	E	1	bm	1	62	51	—	
Holyhead ...	30.11	56	SW	2	0	30.12	+ .06	60	56	+ 6	Z	0	bm	0	63	50	—	
Parsonstown ...	30.09	64	Z	0	0	30.07	+ .04	60	54	+ 2	SE	1	b	*	69	50	—	
Valencia ...	30.08	56	SE	3	0	30.10	+ .08	55	52	+ 1	SE	4	cm	4	56	52	0.22	
Roche's Point...	30.11	55	S	2	0	30.11	+ .05	55	52	- 1	S	2	0	3	60	53	—	
Pembroke ...	30.12	55	WNW	2	0	30.12	+ .03	56	55	+ 4	NW	1	bf	1	58	49	—	
Scilly ...	30.11	58	WNW	1	0	30.12	+ .05	57	55	0	NNW	1	bm	4	62	52	—	
Prawle Point ...	30.11	57	WNW	2	0	30.11	+ .04	63	56	+ 4	E	1	b	0	63	49	—	
Jersey ...	30.10	61	SW	3	0	30.11	+ .05	56	53	0	NW	2	cm	2	63	47	—	
Hurst Castle ...	30.10	54	WSW	4	0	30.11	+ .06	57	56	+ 1	NNE	2	cm	1	62	50	0.02	
Dungeness ...	30.07	50	SW	1	f	30.08	+ .06	53	52	+ 3	E	1	m	0	57	49	0.24	
London ...	30.08	61	NN	1	0	30.10	+ .06	58	54	+ 3	NE	1	cm	*	64	51	—	
Oxford ...	30.11	57	N	1	0	30.13	+ .06	56	53	+ 1	N	1	cm	*	64	49	—	
Cambridge ...	30.09	59	N	1	0	30.11	+ .05	59	55	+ 7	N	1	bc	*	66	49	—	
Yarmouth ...	30.07	54	NNE	2	0	30.10	+ .08	54	52	+ 2	NNE	3	b	2	55	49	—	
Cuxhaven ...	30.04	58	E	3	0	30.09	+ .13	56	50	+ 3	E	2	b	*	63	?	—	
Berlin ...	29.99	70	E	1	0	30.10	+ .15	64	56	+ 1	E	4	b	*	75	55	—	
Wiesbaden ...	*	*	*	*	*	30.00	-.01	60	59	+ 6	Z	0	c	*	61	?	0.43	
Munich ...	30.01	54	W	2	0	30.02	+ .03	56	54	+ 6	NE	4	0	*	57	50	0.04	
FRANCE & NETHERLANDS.																		
The Helder ...	30.04	54	NNE	1	0	30.07	+ .06	58	56	+ 4	NNE	1	b	1	59	54	—	
Brussels ..	*	*	*	*	*	30.07	+ .04	55	53	+ 1	NNW	1	0	*	62	52	0.04	
Cape Gris Nez...																		
Paris ...	30.05	53	NE	1	0	30.08	+ .04	53	57	+ 4	N	2	0	*	64	49	0.20	
Brest ...	30.17	59	NNW	2	0	?	?	54	53	+ 6	Z	0	b	1	59	43	—	
Lorient ...																		
Rocheport ...	30.08	61	NW	4	0	30.12	+ .04	59	56	+ 4	NNE	2	b	4	66	46	—	
Belfort ...	29.97	53	W	1	0	30.00	-.08	53	52	- 1	E	1	r	*	67	42	0.35	
Lyons ...	29.97	60	NNE	2	0	30.01	+ .02	53	49	0	NNW	2	b	*	65	43	—	
Nice ...	29.87	61	SW	3	0	29.86	+ .04	58	56	0	Z	0	bc	0	68	54	—	
Perpignan ...	29.92	69	NW	4	0	30.00	+ .03	65	57	+ 1	NW	4	bc	*	75	59	—	
Biarritz ...	30.04	63	NNE	3	0	30.08	+ .02	56	55	- 1	SW	2	0	2	66	54	—	
SPAIN.																		
Corunna ...	*	*	*	*	*													
Lisbon ...	30.01	57	NW	4	0	30.04	+ .06	57	55	0	Z	0	c	2	66	52	—	

WEATHER CHARTS

for 8 a.m. on

Tuesday, 21st May,

1889.

BAROMETER, WIND & SEA.

(Explanation of Map)

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

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

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

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

○ = dead calm.

Sea Disturbance — where considerable is shown thus.

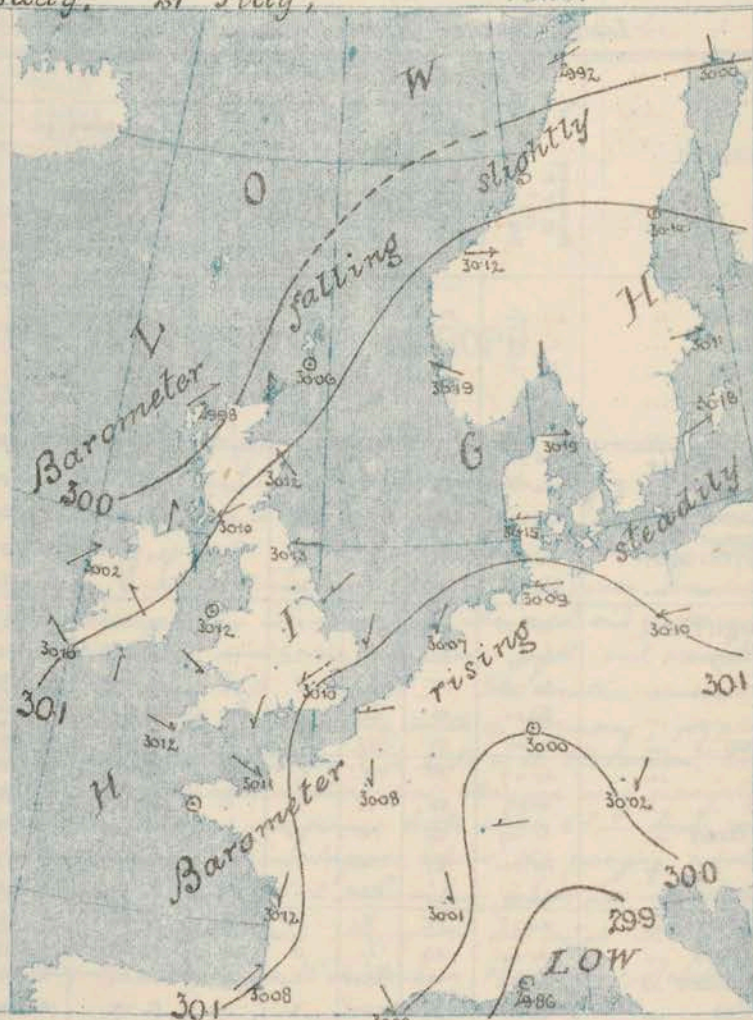
— Rough — High.

MEAN HEIGHT of the BAROMETER

at 8 a.m. for the month of 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	29.985
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.

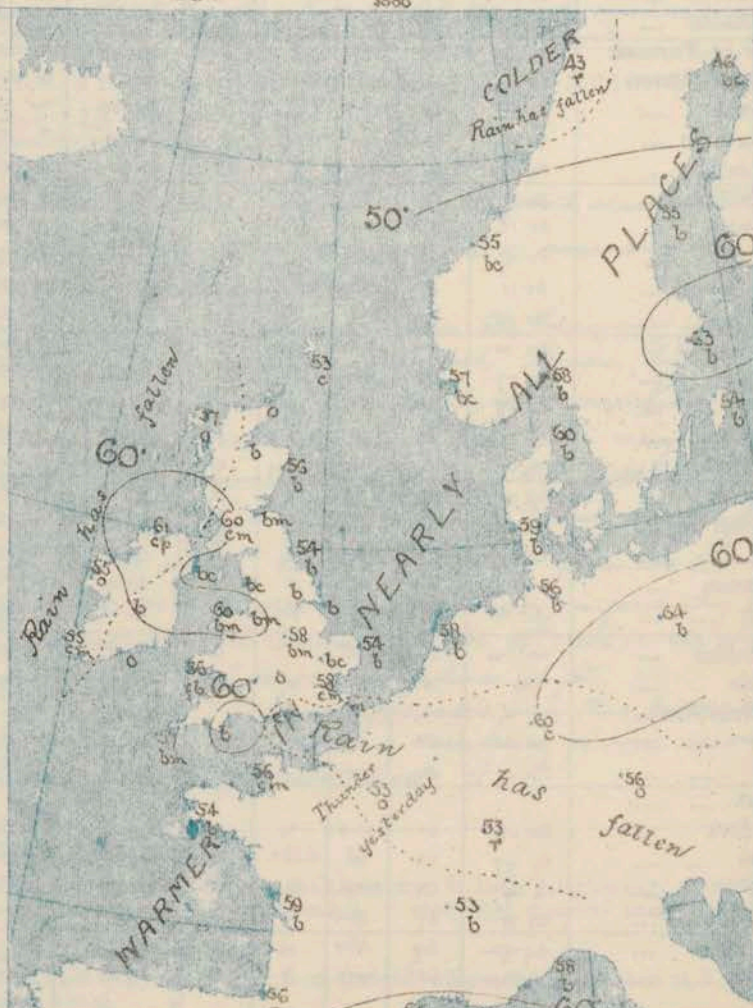
MEANS OF TEMPERATURE IN SHADE.

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	43.9	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	55.9	42.0	48.4	45.0	1.67
Aberdeen	55.0	41.7	48.9	46.3	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	43.1	50.3	47.8	1.83
Liverpool	57.6	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	48.5	2.83
Roche's Point	59.6	46.0	51.7	48.7	2.05
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 30.1 ins. and upwards, in a large area extending from the Bay of Biscay, across England and the North Sea to Denmark, the Baltic and the south of Scandinavia. Lowest 29.9 ins. and less, over the Gulf of Genoa; 30.0 ins. and less, in the Hebrides, and also in the north of Scandinavia. Gradients slight. Barometer rising at all but our extreme northern and the Scandinavian stations.
TEMPERATURE	Highest 65° at Perpignan, 64° at Berlin, 63° at Stockholm and Brüssel; 61° at Malin Head and Mullaghmore, and 60° at Androsan, Holyhead and Wiesbaden. Lowest 45° at Bodø, 46° at Haparanda and 53° at Lumburg Head, Spurn Head, Donaghadee Barrow in Farness Dungeness, Paris. During yesterday the thermometer rose to 75° at York, 72° at Loughborough, and 69° at Parnassus, but in London it did not exceed 66°.
WIND	Light or moderate from the S. or S.E. in Ireland & Scotland; variable in Scandinavia. Light from the E. in Denmark and North Germany, and from the N. over France and the eastern parts of England.
WEATHER	Fine generally but cloudy on our extreme western and northern coasts, with passing showers at Malin H.; rain is falling at Bodø. Rain fell yesterday at some of our western and southeastern stations, and a solar halo was seen in London.
SEA	Moderate to smooth.

PROBABLE CHANGES IN SYSTEM NOW PREVALENT

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

FORECASTS

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

DISTRICTS.

FORECASTS.

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

S^{ly} winds, light or moderate; cloudy, rain locally.
S.E. winds, light; fine generally.
N^{ly} to variable airs; fine generally.

DISTRICTS.

FORECASTS.

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

Same as Nos. 1 and 2.
Variable breezes, finally S^{ly} fine generally.
S.E. and S^{ly} winds, moderate or fresh; cloudy, some rain.

WARNINGS

None Issued.

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

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

YESTERDAY'S 2 P.M. REPORTS.

	Bar.	Dry.	Wet.	Wind.	Wsa.	Sea.		Bar.	Dry.	Wet.	Wind.	Wsa.	Sea.
Skudesnaes ...	30.17	65	55	W 2	bc	2	Holyhead ...	30.11	60	56	W 2	c	2
Sumburgh Head ...	30.08	51	50	SE 1	0	2	Valencia ...	30.07	56	53	SE 5	pm	5
Stornoway ...	30.08	53	52	S 2	0	2	Scilly ...	30.11	59	55	W 1	c	4
Aberdeen ...	30.09	60	55	SE 2	c	2	Jersey ...	30.09	62	58	N 2	c	2
Shields ...	30.07	54	52	E 2	bc	2	Dungeness ...	30.07	57	51	Z 0	c	0
Ardrossan ...	30.07	59	54	SW 1	c	1	London ...	30.08	60	56	NW 1	c	*
Malin Head ...	30.03	59	58	W 1	0	1	Yarmouth ...	30.08	54	52	NNE 2	bc	2
Mullaghmore ...	30.02	64	60	SW 2	0	2	Rochefort ...	30.09	65	57	NW 4	bc	2
Belmullet ...	30.02	57	56	SW 2	0	*							

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

The reports for yesterday morning showed that pressure was highest, 30.2 in. and upwards, in a large area which extended from Sweden across Finland to central Russia, and high, 30.0 in. to 30.1 in. over nearly the whole of Western Europe. The lowest readings, 29.8 in. and less, were found in two shallow depressions, one of which lay over the central part of Italy and the Adriatic, while the other was situated to the west of Corsica. Another depression (considerably small), with similar readings was apparently lying near Malta. The wind was light from the E^{ad} over the central and southern parts of Russia, the Baltic, Denmark, North Germany and Austria, but NE⁴ or N⁴ in the east of England, and NW⁴ in France. In the west and north of our Islands, however, light SE⁴ or S⁴ breezes were reported, while in the northern part of Scandinavia and Russia the wind was chiefly W⁴. Over Italy, the Mediterranean and Algeria, light variable breezes were general. The weather was foggy or misty over the eastern part of the United Kingdom, and also over central France, and rainy at several of the German stations, as well as in western Algeria. Elsewhere, however, conditions were generally fine. Temperature had fallen a little over the Baltic, Germany and the east and south of France, but risen in most other localities; readings ranged from 65° and upwards, over the Mediterranean, and 60° and upwards, at several of the Austrian and German stations, to 40° and less, over central and northern Russia. The highest individual readings were 72° at Brindisi, 70° at La Halle, 69° at Lissina, 68° at Trieste, 67° at Barcelona, Rome, Cagliari, 66° at Palermo, and 65° at Malta; the lowest were 32° at Archangel, 38° at Moscow, 40° at Kuopio and St. Petersburg, 41° at Haparanda and Uleaborg, 42° at Helsingfors, 43° at Hangö and Helsingfors, and 46° at Christiansund. In the course of the day the barometer rose slightly in all parts of western Europe, and the weather improved considerably over our eastern districts. Over central England the thermometer rose above 70°, but in London the maximum was only 64°.

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 WEDNESDAY 22ND MAY 1889.
 Issued by the Meteorological Office, 63 Victoria Street, London. R.H. SCOTT, Secretary.

STATIONS.	† YESTERDAY EVENING.						8 A.M. TO DAY.										PAST 24 HOURS.		
	Barometer at 32° F. and Sea Level.	Temp. in Shade.	WIND.		Weather.	Barometer. Reading at 32° F. and Sea Level.	Difference from 8 a.m. yesterday.	SHADE TEMP.		WIND.	Force. (0 to 12.)	Weather.	Sea. 0 to 5.	SHADE TEMP.		Amount of Rainfall.			
			Dir.	Force. (0 to 12.)				Dry.	Wet.					Max.	Min.				
SCANDINAVIA.																			
Haparanda ..	29.82	38	SW	2	bc	29.78	-22	43	44	+2	W	2	0	*	50	32	0.04		
Hernösand ...	30.02	54	Z	0	c	30.02	-08	52	52	+4	Z	0	c	*	66	39	—		
Stockholm ...	30.10	64	Z	0	c	30.08	-08	64	52	+1	W	4	bc	*	77	45	—		
Wisby ...	30.15	58	SW	4	c	30.17	-01	53	52	+4	W	2	c	*	66	41	—		
Bodo ...	29.95	46	SE	2	T	29.71	-21	45	44	+2	SE	2	T	1	45	41	1.02		
Christiansund...	30.05	53	SW	2	bc	29.96	-16	56	53	+1	SW	1	0	1	59	50	—		
Skudesnaes ...	30.17	53	S	2	c	30.12	-07	57	51	0	SE	2	c	2	61	50	—		
Christiansia Fjord (Fardar)	30.10	60	W	5	c	30.08	-09	59	56	+1	S	3	c	1	63	57	—		
Skagen (The Scaw)	30.14	58	SW	1	c	30.12	-06	58	53	-2	SW	1	bc	1	70	54	—		
Faro ...	30.16	59	SE	2	c	30.12	-02	62	57	+2	SE	2	c	*	75	50	—		
BRITISH ISLANDS.																			
Sumburgh Head	30.00	51	SW	1	0	29.91	-15	51	50	-2	Z	0	c	2	57	48	0.14		
Stornoway ...	30.05	58	SW	5	c	29.89	-09	57	56	0	SW	5	c	4	63	50	0.02		
Wick ...	29.97	59	SW	1	0	29.87	-18	60	57	+4	SW	1	bc	1	67	52	—		
Nairn ...	29.97	70	Z	0	0	29.89	-15	64	59	+5	Z	0	c	0	72	57	0.26		
Aberdeen...	30.06	58	S	4	bc	29.85	-17	57	54	+1	S	1	c	2	62	47	—		
Leith ...	30.01	58	NE	1	c	29.96	-15	59	54	+1	Z	0	bc	*	63	48	—		
Shields ...	30.07	57	E	2	c	29.98	-15	62	58	+8	S	2	c	2	62	52	—		
Spurn Head ...	30.09	52	NE	2	c	30.04	-08	54	52	+2	E	2	c	*	57	48	—		
York ...	30.06	68	E	1	c	30.01	-10	61	58	+5	SE	1	c	*	76	50	—		
Loughborough	30.09	69	ENE	2	c	30.05	-09	62	59	+4	ENE	1	bc	*	74	48	—		
Ardrossan ...	30.04	62	SW	1	c	29.94	-16	63	58	+3	Z	0	bc	0	68	53	—		
Malin Head ...	29.99	60	NW	1	bc	29.91	-12	53	54	-6	S	2	om	2	67	52	—		
Malaghmore ...	30.01	65	W	2	bc	29.92	-13	53	52	-6	SW	2	0	2	69	51	—		
Belmullet ...	30.01	53	SW	3	c	29.90	-12	54	54	-1	SW	4	0	*	57	53	—		
Donaghadee ...	30.05	58	SW	2	bc	29.95	-16	55	52	+2	S	2	c	1	62	52	—		
GERMANY.																			
Barrow-in-Furness	30.06	61	W	2	c	30.01	-09	59	57	+6	SE	1	c	*	65	52	—		
Liverpool (Bidston)	30.08	58	NW	1	bc	30.01	-12	67	60	+6	SE	2	bc	2	68	54	—		
Holyhead ...	30.07	57	Z	0	c	30.00	-12	56	52	-4	SW	2	bc	2	65	50	—		
Parsonstown ...	30.02	71	Z	0	c	30.00	-07	53	51	-5	W	1	0	*	73	50	—		
Valencia ...	30.07	53	SE	2	om	29.97	-13	54	52	-1	SE	4	om	4	57	52	0.01		
Roche's Point...	30.09	57	SW	3	c	30.02	-08	53	52	0	SW	3	bc	2	60	50	—		
Pembroke ...	30.07	57	WNW	3	c	30.04	-08	53	52	-3	NW	1	c	0	62	50	—		
Scilly ...	30.09	57	N	2	bc	30.01	-11	53	54	-2	NE	2	0	4	60	52	—		
Prawle Point ...	30.10	60	WNW	2	c	30.05	-06	58	54	-5	E	2	c	0	55	50	—		
Jersey ...	30.08	63	NNE	3	c	30.05	-06	53	52	-3	ENE	1	c	1	64	51	—		
FRANCE & NETHERLANDS.																			
Hurst Castle ...	30.09	56	SW	2	c	30.04	-07	58	57	+1	E	2	bc	1	65	49	—		
Dungeness ...	30.10	52	E	2	c	29.98	-10	63	58	+10	E	2	bc	1	63	50	—		
London ...	30.08	66	E	2	c	30.02	-08	60	56	+2	Z	0	bc	*	69	52	—		
Oxford ...	30.09	63	Z	0	c	30.04	-09	61	58	+5	E	1	c	*	69	48	—		
Cambridge ...	30.09	68	NE	1	c	30.03	-08	65	61	+6	N	1	c	*	69	51	—		
Yarmouth ...	30.11	53	NNE	2	c	29.92	-18	57	53	+3	NNE	2	c	2	58	50	—		
Cuxhaven ...	30.18	59	E	2	c	30.10	+01	60	59	+4	ENE	2	c	*	63	57	—		
Berlin ...	30.14	71	ENE	3	c	30.15	+05	66	58	+2	ENE	2	c	*	79	57	—		
Wiesbaden ...	*	*	*	*	*	30.01	+01	65	58	+5	NNE	2	c	*	75	57	0.16		
Munich ...	29.99	62	Z	0	c	29.99	-03	60	53	+4	NE	5	c	*	68	48	—		
PORTUGAL.																			
The Helder ...	30.07	61	NE	1	c	30.04	-03	63	60	+5	E	1	c	1	66	57	—		
Brussels ...	*	*	*	*	*	29.99	-08	53	53	+3	WNW	1	c	*	67	53	0.04		
Cape Gris Nez...	?	52	NW	2	bc	?	?	53	52	?	N	1	bc	0	59	50	0.04		
Paris ...	30.05	63	N	1	bc	29.99	-09	59	58	+6	WNW	2	c	*	67	50	—		
Brest ...	?	60	WNW	2	0	?	?	56	54	+2	E	1	c	2	62	50	—		
Lorient ...	30.06	60	SW	2	c	30.02	?	56	53	?	E	2	c	2	64	50	—		
Rochefort ...	30.10	58	ENE	3	T	30.04	-08	53	54	-4	ENE	3	c	2	71	46	0.16		
Belfort ...	29.96	58	E	1	0	29.98	-07	65	62	+12	E	1	0	*	68	43	—		
Lyon ...	29.99	60	NNE	1	0	29.95	-06	59	54	+6	W	1	bc	*	65	53	—		
Nice ...	29.89	61	SW	2	bc	29.93	+07	60	57	+2	ENE	1	c	0	70	52	—		
Perpignan ...	29.96	70	NW	2	0	29.94	-06	59	58	-6	NW	2	0	*	76	55	0.12		
Biarritz ...	30.02	64	NNE	3	c	30.07	-11	58	53	+2	WNW	2	0	2	68	55	—		
SPAIN.																			
Corunna ...	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*		
Lisbon ...	29.97	66	SW	1	c	29.94	-10	56	55	-1	S	1	c	?	70	54	—		

WEATHER

for 8 a.m. on

CHARTS

WEDNESDAY 22nd MAY 1889.

BAROMETER, WIND & SEA.

(Explanation of Map)

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

Sea Disturbance — where considerable, is shown thus.

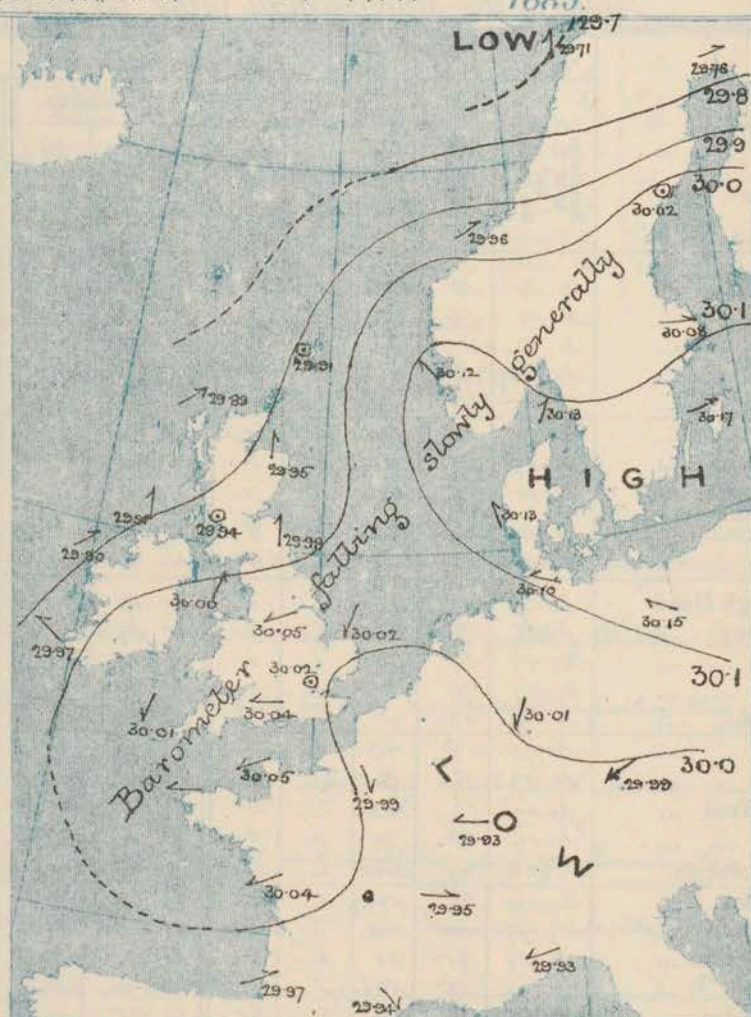
■ = Rough. ■ = High.

MEAN HEIGHT of the BAROMETER

at 8 a.m. for the month of 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.	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	55.9	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	43.8	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

Notes — The Temperature means are for the 15 years 1871 — 85, the Rainfall means are mainly those for the 30 years 1856 — 85



GENERAL SITUATION AT 8 A.M.

PRESSURE

Highest 30.1 ins. and more, over the Baltic, Denmark and north Germany; 30.0 ins. and more, over England, St. Georges and English Channels, and the northwestern part of France.
 Lowest 29.7 ins. at Bodo; 29.9 ins. and less off our extreme northwestern coast; 30.0 ins. and less, over the central and southern parts of France, and in Portugal.
 Gradients moderate in the extreme northwest and north, slight elsewhere.
 Barometer falling a little in all places, most in the north.

TEMPERATURE

Highest 66° at Berlin, 65° at Wiesbaden and Cambridge, 64° at Naim, 63° at Dungeness and the Kelder, 62° at Loughborough and Faro, 60° in London, and at Munich, 59° at Paris.
 Lowest 45° at Bodo, 48° at Haparanda, 53° at Jersey (where there is fog), 56° at Lisbon.
 It rose during yesterday afternoon to 79° at Berlin, 76° at York, 75° at Faro, 74° at Loughborough, 73° at Parsonstown, 72° at Naim, and 69° at Oxford, Cambridge and in London.

WIND

Light to moderate from between S and S.W. over the greater part of Ireland, Scotland and Norway.
 Very light and variable over England and France, E. to S.E. over north Germany
 E. over the Bay of Biscay.

WEATHER

Dull in the extreme W. and also in the northwestern Norway with rain at Bodo.
 Fine generally elsewhere - bright in most places, but foggy at Jersey, and at several of the English stations.
 Rain has been heavy at Bodo, slight in the northeast of Scotland, and the Netherlands.

SEA

Moderate at Loughborough Head and on our southwestern coasts, smooth generally elsewhere.

PROBABLE CHANGES IN SYSTEM NOW PREVALENT

The S.W. wind in the west and north appears likely to freshen a little, and to spread somewhat over England - with showers in the west, fine and warm weather elsewhere.

FORECASTS

For the 24 hours ending at NOON on 23rd May 1889.

DISTRICTS.

FORECASTS.

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

S.W. and variable light breezes; fine, warm.
 Varying light breezes; fine, warm, hazy in night

DISTRICTS.

FORECASTS.

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

S.W. air and light breezes; slight local showers, fine 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.	Dry.	Wet.	Wind.	Wca.	Sea.		Bar.	Dry.	Wet.	Wind.	Wca.	Sea.
Skudesnæs ...	30.20	61	55	S 4	bc	3	Holyhead ...	30.11	60	56	X 0	bc	3
Samburgh Head ...	30.04	53	50	SE 2	0	2	Valencia ...	30.09	56	53	SE 6	bc	5
Stornoway ...	29.98	60	57	SW 5	0	4	Scilly ...	30.12	59	56	NW 2	bc	3
Aberdeen ...	30.09	62	54	S 3	bc	4	Jersey ...	30.10	62	57	NNW 2	cm	2
Shields ...	30.10	58	55	E 2	c	2	Dungeness ...	30.09	53	53	E 3	f	2
Ardrossan ...	30.07	63	56	SW 1	c	1	London ...	30.09	66	59	ENE 1	0	*
Malin Head ...	30.02	67	66	SW 2	0	1	Yarmouth ...	30.11	57	53	NNE 2	bc	2
Mullaghmore ...	30.04	67	59	WNW 2	cm	2	Rochefort ...	30.10	71	63	WNW 2	c	2
Belmullet ...	30.02	56	53	SW 4	c	*							

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

The reports for yesterday morning showed that while the highest pressures, 30.3 ins. and upwards, were reported over central Russia, a long and broad band of high readings 30.1 ins. and upwards, extended thence across the Baltic, the south of Scandinavia and the North Sea to England, the Bay of Biscay and the west of France. The lowest readings 29.8 ins. and less, were found in the extreme north of Russia, and also in a shallow depression which had appeared off the coast of Tunis. The wind was light from the S^W (SE to SW) in the west and north of our Islands, and from W or NW over the greater part of Sweden and North^{ern} Russia, but over central Europe it was chiefly E^{ly}, while in France and the SE and E of England it drew into the N^W. Over Italy, Algeria and the Mediterranean light variable airs were reported. The weather was fine over nearly the whole of Europe, but rain was falling in some parts of central France, as well as at Bodo, and passing showers were reported at Malin Head. Temperature had fallen a little in Tunis and the south of Italy, but risen in nearly all other localities, readings ranged from between 65° and 70° over the Mediterranean and Adriatic, and a little above 60° in the north of Ireland and some parts of Germany and Austria, to a few degrees below 40° in the extreme north of Russia. The highest individual readings were 72° at Trieste, 70° at Brindisi and Cagliari, 68° at Spaa, 67° at Lefina and Leghorn, 66° at Algiers, and 65° at Buda Pesth, Naples, Perpignan, Barcelona and La Culle; the lowest were 35° at Archangel, 41° at Moscow, 43° at Bodo, 45° at Kuopio and St Petersburg, 46° at Haparanda, Uleaborg and Hangö, and 49° at Helsingfors and Luicimunde. In the course of the day the barometer fell slightly over the whole of western Europe, but no important change was reported in the winds or weather. The thermometer rose to a maximum of 72° at Nairn, 73° at Parsonstown, 74° at Cagliari, and 76° at York.

EXPLANATION OF COLUMNS GIVEN ON PAGE I.

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

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

† The evening observations are taken at 8 p.m. in France and our Islands with the exception of Oxford, where they are taken at 3 p.m. In Sweden and Denmark, the observations are taken at 8 p.m. (Christiania time).

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

DAILY WEATHER REPORT.

for THURSDAY 23RD MAY 1889.

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

STATIONS.	† YESTERDAY EVENING.						8 A.M. TO DAY.										PAST 24 HOURS.		
	Barometer at 32° F. and Sea Level.	Temp. in Shade.	WIND.		Weather.		BAROMETER.		SHADE TEMP.			WIND.		Weather.	Sea (0 to 12.)		SHADE TEMP.		Amount of Rainfall.
			Dir.	Force. (0 to 12.)			Reading at 8 A.M. and Sea Level.	Difference from 8 A.M. yesterday.	Dry.	Wet.	Difference from 8 A.M. yesterday.	Dir.	Force. (0 to 12.)				Max.	Min.	
SCANDINAVIA.																			
Haparanda ..	29.71	46	2	0	C		29.65	-1.13	45	43	-2	SW	4	C	*		53	41	—
Hernösand ...	29.92	52	2	0	C		29.80	-1.22	57	51	-2	SW	2	C	*		68	29	—
Stockholm ...	30.02	65	2	0	C		30.00	-1.02	70	58	+6	SW	2	C	*		79	53	—
Wisby ...	30.12	57	SW	6	C		30.09	-1.03	56	50	-2	SW	4	C	*		73	46	—
Bodö ...	29.71	46	SW	6	P		29.62	-0.09	45	45	0	SW	4	P	3		46	41	1.10
Christiansund...	29.86	60	SE	1	C		29.76	-1.20	53	51	-2	S	1	P	1		61	52	0.04
Skudesnaes ...	30.01	58	SE	6	C		29.88	-1.24	61	53	+4	SE	4	C	2		63	54	—
Christiania Fjord	29.99	59	SW	5	C		29.98	-1.10	61	57	+2	SW	2	C	1		63	57	—
(Færder)																			
Skagen (The Scaw)	30.04	58	SW	1	C		29.99	-1.14	58	53	0	SW	1	C	1		68	54	—
Fanö ...	30.05	64	SE	4	C		29.99	-1.14	66	61	+4	SE	2	C	*		73	54	—
BRITISH ISLANDS.																			
Sumburgh Head	29.82	52	S	1	C		29.73	-1.18	52	50	+1	S	1	C	2		60	48	—
Stornoway ...	29.80	54	SW	5	C		29.73	-1.16	51	51	-6	SW	4	C	4		53	48	0.12
Wick ...	29.80	57	NW	2	C		29.76	-1.11	53	52	-5	NW	2	C	1		70	49	—
Nairn ...	29.78	70	SW	2	C		29.75	-1.14	60	53	-4	W	2	C	1		73	53	—
Aberdeen...	29.85	63	S	2	CM		29.80	-1.15	62	56	+5	S	1	BC	2		68	54	—
Leith ...	29.89	63	S	1	C		29.83	-1.13	63	57	+4	WNW	1	BC	*		72	49	—
Shields ...	29.90	59	2	0	CM		29.83	-1.15	61	57	-1	NW	1	C	2		70	54	—
Spurn Head ...	29.95	56	ENE	1	C		29.87	-1.17	60	56	+6	2	0	C	1		60	49	0.10
York ...	29.94	74	SE	2	C		29.82	-1.19	62	53	+1	WNW	1	BC	*		78	52	—
Loughborough	29.93	79	E	1	C		29.87	-1.18	65	61	+3	2	0	CM	*		82	58	—
Ardrossan ...	29.89	58	SW	2	C		29.84	-1.10	53	53	-8	SW	2	BC	2		65	53	—
Malin Head ...	29.87	58	S	2	C		29.83	-1.08	52	50	-2	S	1	C	1		61	53	0.04
Mullaghmore ...	29.87	59	SW	2	C		29.83	-1.09	53	52	-2	2	0	C	0		62	50	0.05
Belmullet ...	29.89	53	SW	2	C		29.83	-1.07	52	52	-2	SW	2	C	*		58	50	0.03
Donaghadee ...	29.91	61	SW	2	C		29.86	-1.09	61	57	+6	W	2	BC	1		63	53	—
Barrow-in-Furness	29.80	59	NW	2	C		29.88	-1.13	56	53	-2	SW	2	BC	*		63	54	—
Liverpool (Bidston)	29.95	60	WNW	1	BC		29.89	-1.12	60	54	-7	WNW	1	C	2		72	54	—
Holyhead ...	29.96	54	SW	2	C		29.89	-1.11	53	53	-1	SW	2	BC	1		60	49	—
Parsonstown ...	29.97	64	2	0	C		29.88	-1.12	53	52	0	2	0	C	*		66	50	—
Valencia ...	29.95	53	SW	2	OM		29.88	-1.09	53	53	+1	SE	2	OM	2		57	52	—
Roche's Point...	29.99	53	SW	2	C		29.91	-1.12	53	52	0	SW	1	C	2		58	53	—
Pembroke ...	29.98	53	WNW	2	C		29.91	-1.13	53	52	0	NW	1	BC	1		56	49	—
Scilly ...	29.95	59	SE	2	CM		29.89	-1.12	52	52	-2	SE	2	OF	2		63	49	—
Prawle Point ...	29.99	58	2	0	C		29.90	-1.15	61	58	+3	2	0	OF	0		61	46	—
Jersey ...	29.96	67	NW	1	CF		29.92	-1.13	64	57	+11	WNW	1	CM	1		67	50	—
Hurst Castle ...	29.96	60	WNW	4	M		29.89	-1.15	59	56	+1	W	2	OM	1		64	52	—
Dungeness ...	29.92	61	2	0	C		29.85	-1.13	67	60	+4	2	0	C	0		67	52	—
London ...	29.92	74	SE	2	CM		29.85	-1.17	65	61	+5	WNW	1	CM	*		79	54	—
Oxford ...	29.92	68	W	1	C		29.87	-1.17	63	60	+2	2	0	CM	*		76	53	—
Cambridge ...	29.91	72	N	1	C		29.86	-1.17	67	63	+2	2	0	C	*		80	51	—
Yarmouth ...	29.96	61	NW	1	C		29.86	-1.18	60	58	+3	NW	1	C	1		61	53	—
Cuxhaven ...	30.00	60	E	2	C		30.00	-1.10	65	64	+5	E	2	C	*		71	53	—
Berlin ...	30.06	73	SE	2	C		30.07	-1.08	67	58	+1	SE	2	C	*		81	59	—
Wiesbaden ...	*	*	*	*	*		29.91	-1.10	64	59	-1	E	2	C	*		77	54	—
Munich ...	29.95	61	NE	1	C		29.97	-1.02	61	56	+1	SE	4	C	*		72	46	—
FRANCE & NETHERLANDS.																			
The Helder ...	29.94	71	SE	1	C		29.88	-1.16	68	64	+5	SE	1	C	1		75	63	—
Brussels ...	*	*	*	*	*		29.85	-1.14	68	61	+10	E	1	C	*		80	?	—
Cape Gris Nez...	30.00	52	NE	2	M		29.97	-1.14	59	57	+4	2	0	M	0		61	54	—
Paris ...	29.91	71	N	2	C		29.89	-1.10	60	58	+1	S	1	BC	*		74	54	—
Brest ...	29.91	64	2	0	C		29.89	-1.10	57	53	+1	E	2	C	2		64	45	—
Lorient ...	29.98	63	WNW	1	C		29.90	-1.12	57	56	+1	SE	1	C	2		64	53	—
Rochefort ...	29.96	62	NW	4	C		29.93	-1.11	60	58	+5	E	2	C	1		69	50	—
Belfort ...	29.87	64	E	2	C		29.90	-1.03	62	58	-2	NW	1	C	*		79	57	—
Lyons ...	29.93	62	SE	2	C		29.95	0.02	58	53	-1	W	1	C	*		73	52	0.16
Nice ...	29.95	60	SW	1	C		29.98	+0.03	53	53	-5	SW	1	P	2		68	54	1.10
Perpignan ...	29.96	60	NE	2	C		29.94	0.02	60	57	+1	NE	1	C	*		66	53	0.20
Biarritz ...	29.92	64	NW	2	C		29.84	-1.12	61	56	+3	SE	2	C	1		68	54	—
PENINSULA.																			
Corunna ...	*	*	*	*	*		29.82	-1.11	59	57	+2	SE	2	C	2		66	54	—
Lisbon ...	29.87	60	W	2	C		29.82	-1.11	59	57	+2	SE	2	C	2		66	54	—

For Explanation of Columns, see p. 4.

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

WEATHER CHARTS

for 8 a.m. on

Thursday, 23rd May.

1889.

BAROMETER, WIND & SEA.

(Explanation of Map)

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

Sea Disturbance — where considerable, is shown thus.

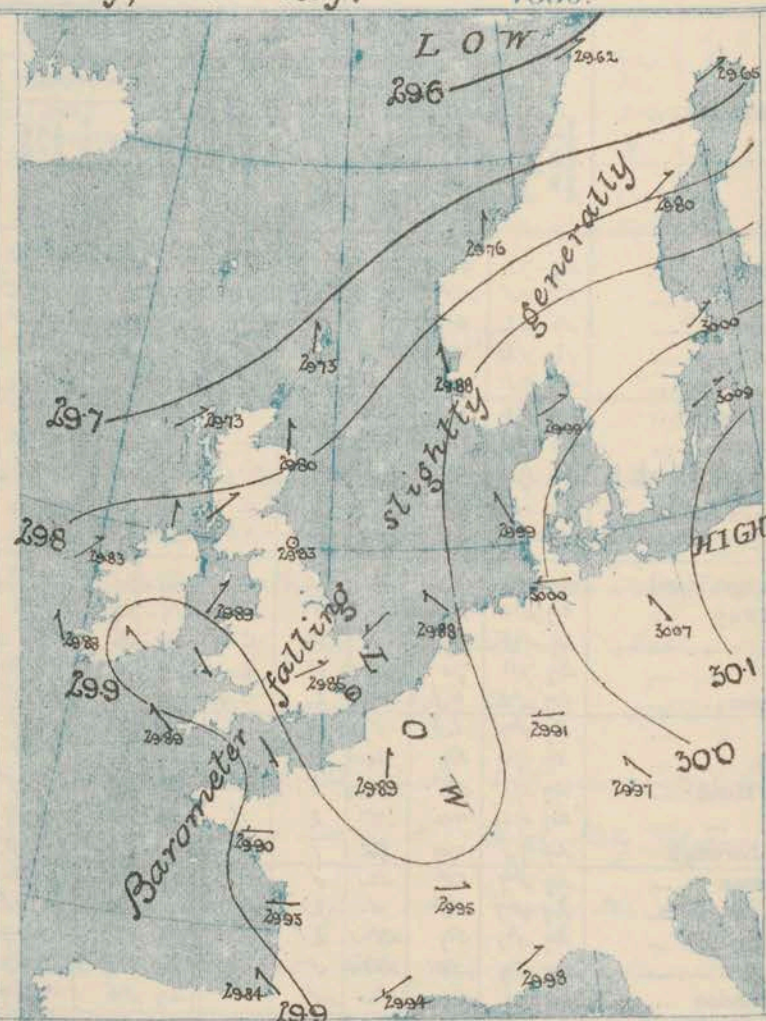
— Rough — High.

MEAN HEIGHT of the BAROMETER

at 8 a.m. for the month of 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.

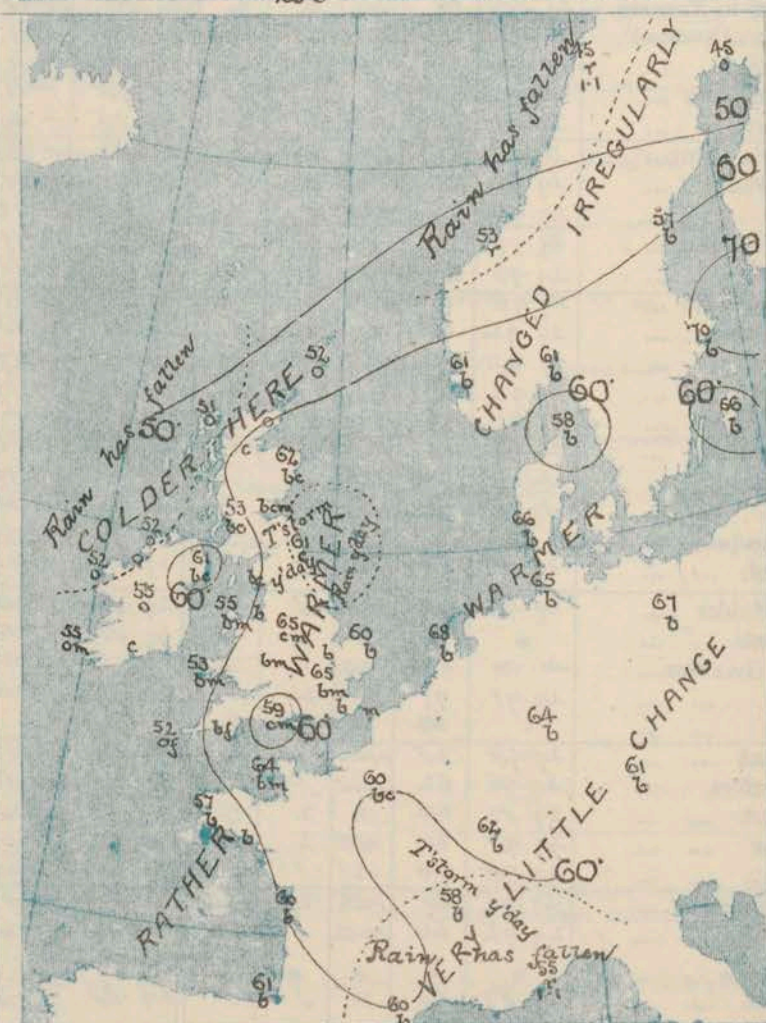
MEANS OF TEMPERATURE IN SHADE.

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.	61.5	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	45.1	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	52.8	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	1.68
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	51.2	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 25 years 1868 — 85.



GENERAL SITUATION AT 8 A.M.

PRESSURE	Highest, 30.0 ins: and more, over the Baltic and North Germany — 29.9 ins: and more, over the south and west of France and the southwest of our Islands. Lowest, 29.7 ins: and less, off our most northern coast, and about 29.6 ins: in the east of England. A shallow low, V-shaped, southwards from England over Belgium and the northeast of France. Gradient slight. Barometer falling slowly, but generally.
TEMPERATURE	Highest, 70° at Stockholm, 68° at Brussels and the Helder, 67° at Berlin and Dungeness, 65° in London, 62° at Aberdeen. Lowest, 45° at Bodø and Haparanda, 51° at Stornoway, 52° at Malin Head and Belmullet. The daily maxima yesterday were as high as 82° at Loughborough, 81° at Berlin, 80° at Brussels and Cambridge, 79° in London, 78° at York, 76° at Bedford and 74° at Paris.
WIND	Extremely light and variable, in our Islands and France, chiefly S. over Scandinavia SE over the Netherlands, Germany and Spain. E over the Bay of Biscay.
WEATHER	Dull in Ireland and the north of Scotland — rainy in the northwest of Norway, fine generally elsewhere, but hazy in several parts of the Irish and English Channels. Slight rain fell in the extreme west and northeast yesterday, with thunder at Shields; Mock Suns were seen at Wick. Heavy rain and thunder occurred in the south of France yesterday afternoon.
SEA	smooth except at Stornoway



PROBABLE CHANGES IN SYSTEM NOW PREVALENT

The distribution of pressure is of a rather less settled type than that recently observed.

FORECASTS

for the 24 hours ending at NOON on 24TH MAY. 1889.

DISTRICTS.	FORECASTS.	DISTRICTS.	FORECASTS.
0 { SCOTLAND NORTH	{ SW ^{ly} airs and light breezes; fine, warm.	6 { SCOTLAND WEST	{ Varying airs followed by S ^{ly} breezes; fine to showery.
1 { SCOTLAND EAST		7 { ENGLAND N. W.	
2 { ENGLAND N. E.	{ Varying airs; fine, at first and warm, thundery later.	8 { ENGLAND S. W.	
3 { ENGLAND EAST		9 { IRELAND NORTH	
4 { MIDLAND COUNTIES		10 { IRELAND SOUTH	
5 { ENGLAND SOUTH			
		WARNINGS	NONE ISSUED.

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

YESTERDAY'S 2 P.M. REPORTS.

	Bar.	Dry.	Wet.	Wind.	Wes.	Sea.		Bar.	Dry.	Wet.	Wind.	Wes.	Sea.
Skudesnaes ...	29.56	58	54	S 4	c	3	Holyhead ...	29.79	58	54	SW 2	c	2
Sumburgh Head ...	29.85	56	54	S 2	c	2	Valencia ...	29.96	56	53	S 5	om	5
Stornoway ...	29.83	55	53	S 5	c	4	Scilly ...	30.11	61	56	ESE 2	om	4
Aberdeen ...	29.88	64	57	SE 3	om	3	Jersey ...	30.01	59	57	S 1	om	1
Shields ...	29.92	65	60	SE 3	c	2	Dungeness ...	29.95	61	57	SW 2	c	1
Ardrossan ...	29.91	62	57	SW 2	c	2	London ...	29.94	76	64	E 2	bc	
Malin Head ...	29.90	56	54	W 1	c	0	Yarmouth ...	29.98	60	57	NNE 2	c	2
Mullaghmore ...	29.90	60	58	SW 4	c	2	Rochefort ...	29.99	69	64	NW 3	c	2
Belmullet ...	29.91	67	58	SW 3	c	*							

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

The reports for yesterday morning showed that pressure was highest, 30.2 ins: and upwards, in a long band extending from the southern parts of Central part of Central Russia to North Germany, and the Baltic, and lowest, 29.7 ins: in a depression, lying off the extreme northwest of Norway. A small shallow depression, with readings below 29.5 ins: was also lying in the vicinity of Naples. The wind was light or moderate from the S^W in the west and north of our Islands, and light from SW. or W. over the greater part of Northern Europe. Over France and the East and south of England, however, it was chiefly NE², while over Italy, Algeria, and the Central parts of the Continent it was E² and in Spain light and variable. Fine weather prevailed over the greater part of Europe, but in the extreme west of our Islands and in the northern part of Russia and Italy the sky was very cloudy, while at Hermannstadt rain was falling. Fog or mist was reported at several of the English stations. Temperature had fallen a little over Southern Europe, but risen elsewhere, and readings ranged from between 65° and 70° over the Adriatic and Mediterranean, and from a little above 60° in Germany, Denmark, the south of Sweden and the Central parts of our Islands to a little below 50° in Lapland and some parts of Finland and to about 40° in the neighbourhood of the White Sea. The highest individual readings were 70° at Trieste and Brindisi, 69° at Cagliari, 68° at Legna, San Fernando and La Caba, 67° at Florence, Leghorn and Algiers, and 66° at Berlin and Oren; the lowest were 40° at Archangel, 45° at Rode, 48° at Napavanda and Nango, 49° at Uleaborg and St. Petersburg, 51° at Moscow and Sumburgh Head, 53° at Kuafio, and 54° at Tharkov.

In the course of the day the barometer fell a little over Western Europe, but no important change in the distribution of pressure was observed. The thermometer over England rose to between 78° and 82° during the day but a thunderstorm occurred at Shields in the evening.

EXPLANATION OF COLUMNS GIVEN ON PAGE 1.

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

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

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

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

DAILY WEATHER REPORT.

for FRIDAY 24TH MAY 1889.

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

STATIONS.	† YESTERDAY EVENING.						8 A.M. TO DAY.										PAST 24 HOURS.		
	Barometer at 32° F. and Sea Level.	Temp. in Shade.	WIND.		Weather.	Reading at 32° F. and Sea Level.	Difference from 8 a.m. yesterday.	SHADE TEMP.		Difference from 8 a.m. yesterday.	WIND.		Weather.	Sea, 0 to 9.	SHADE TEMP.		Amount of Rainfall.		
			Dir.	Force, (0 to 12.)				Dry.	Wet.		Dir.	Force, (0 to 12.)			Max.	Min.			
SCANDINAVIA.																			
Haparanda ..	29.64	45	S	2	P	29.73	+0.09	56	49	+11	SW	2	bc	*	59	45	—		
Hernösand ...	29.76	63	Z	0	C	29.87	+0.11	62	57	+6	Z	0	C	*	84	48	—		
Stockholm ...	29.95	64	Z	0	C	29.98	+0.03	73	59	+6	SW	2	C	*	84	59	—		
Wisby ...	30.06	60	SW	4	C	30.04	-0.02	59	53	+6	W	2	C	*	73	52	—		
Bodö ...	29.56	46	SW	2	P	29.56	-0.00	45	45	0	W	4	P	2	46	39	0.87		
Christiansund...	29.80	52	W	5	C	29.82	+0.02	53	53	+2	SE	2	P	1	53	50	0.35		
Skudesnaes ...	29.85	58	SW	4	C	29.75	-0.10	53	53	-2	SE	4	C	3	?	54	—		
Christiania Fjord	29.90	62	S	4	C	29.89	-0.01	63	58	+2	SE	2	C	2	64	59	—		
(Fjord)																			
Slengen (The Scaw)	29.90	57	S	1	C	29.86	-0.04	60	56	+2	S	1	C	1	68	54	—		
Fanö ...														*					
BRITISH ISLANDS.																			
Sumburgh Head	29.79	53	Z	0	O	29.61	-0.18	51	50	-1	Z	0	O	0	57	48	—		
Sornoway ..	29.71	53	SW	4	O	29.49	-0.22	50	50	-1	SE	4	P	3	58	47	0.70		
Wick ...	29.73	51	SE	1	bc	29.51	-0.22	53	53	0	S	3	bc	1	58	48	—		
Nairn ...	29.70	63	E	1	bc	29.51	-0.19	58	53	-5	Z	0	bc	1	58	53	—		
Aberdeen...	29.74	59	SE	3	C	29.59	-0.15	53	52	-1	SE	1	C	2	67	49	—		
Leith ...	29.73	60	E	1	C	29.59	-0.14	58	53	-5	W	1	bc	*	71	47	—		
Shields ...	29.74	56	E	1	P	29.60	-0.14	60	57	-3	W	1	C	2	62	51	0.08		
Spurn Head ...	29.75	63	N	3	C	29.65	-0.10	64	61	+3	SE	1	C	1	64	53	—		
York ...	29.73	62	SE	1	O	29.63	-0.10	58	57	-1	SE	1	C	*	73	53	0.24		
Loughborough	29.74	76	E	1	C	29.67	-0.07	66	61	+5	SE	1	C	*	81	50	0.05		
Ardrossan ...	29.72	60	SW	1	C	29.56	-0.16	56	54	+1	S	3	C	2	62	53	—		
Malin Head ...	29.69	57	SW	1	O	29.53	-0.16	47	47	-3	W	2	bc	2	57	47	0.67		
Mullaghmore...	29.69	56	W	2	O	29.59	-0.10	48	47	-1	W	2	bc	2	61	46	0.64		
Belmullet ...	29.70	51	NW	2	om	29.60	-0.10	51	48	-3	NW	2	bc	*	53	47	0.34		
Donaghadee ...	29.73	56	SE	2	C	29.57	-0.16	53	52	-1	SW	4	C	2	62	52	—		
Barrow-in-Furness	29.75	57	NW	3	bc	29.63	-0.12	56	54	0	NW	2	C	*	61	52	—		
Liverpool (Bidston)	29.78	57	NW	1	O	29.64	-0.14	57	53	-4	SW	1	om	2	64	52	—		
Holyhead ...	29.77	54	SW	3	C	29.63	-0.14	56	54	+1	S	2	bc	2	60	49	—		
Parsonstown ...	29.73	60	Z	0	O	29.63	-0.10	48	47	-1	Z	0	P	*	65	47	0.10		
Valencia ...	29.73	53	SE	2	om	29.66	-0.07	52	49	-3	NW	3	bc	3	53	46	0.49		
Roche's Point...	29.77	55	SE	2	m	29.60	-0.17	49	48	-1	N	4	P	3	59	48	0.25		
Pembroke ...	29.78	58	W	1	bc	29.65	-0.13	53	52	-1	SW	2	cm	1	60	50	—		
Scilly ...	29.77	54	SE	1	of	29.61	-0.16	52	51	-1	NW	1	of	2	57	50	0.01		
Prawle Point ...	29.79	63	W	1	bc	29.63	-0.16	61	56	-5	E	2	bc	2	66	52	0.09		
Jersey ...	29.79	67	NNE	2	bc	29.63	-0.16	67	61	+6	NE	1	bc	1	69	54	—		
Hurst Castle ...	29.79	62	NW	3	cm	29.65	-0.14	59	58	-1	ENE	2	C	1	66	51	—		
Dungeness ...	29.76	58	NW	2	C	29.68	-0.08	59	53	-6	S	2	bc	1	70	52	—		
London ...	29.76	75	NW	1	cm	29.66	-0.10	68	60	+8	SW	1	bc	*	82	52	—		
Oxford ...	29.77	66	W	1	C	29.66	-0.11	65	59	+6	S	1	bc	*	77	52	—		
Cambridge ...	29.75	66	Z	0	C	29.67	-0.08	64	63	-1	E	1	C	*	81	50	0.20		
Yarmouth ...	29.78	63	ENE	1	C	29.69	-0.09	58	56	-2	SE	2	C	1	64	54	—		
Cuxhaven ...	29.87	64	SE	3	C	29.80	-0.07	65	65	0	SE	2	C	*	68	54	—		
Berlin ...	29.96	72	SE	4	C	29.92	-0.04	69	57	+12	SE	5	C	*	82	59	—		
Wiesbaden ...	*	*	*	*	*	29.82	-0.09	66	59	+7	E	1	C	*	75	57	—		
Munich ...	29.88	60	E	3	C	29.91	+0.03	65	53	+12	NW	2	C	*	73	48	—		
FRANCE & NETHERLANDS.																			
The Helder ...	29.77	71	SE	1	C	29.70	-0.07	67	62	-5	SW	1	bc	1	79	62	0.04		
Brussels ...	*	*	*	*	*	?	?	62	59	+3	?	1	m	0	70	53	—		
Cape Gris Nez...	?	63	Z	0	bc	?	?	64	57	+7	SE	2	C	0	77	53	—		
Paris ...	29.81	68	S	1	bc	29.75	-0.06	64	57	+7	Z	0	C	0	70	52	—		
Brest ...	?	68	Z	0	C	?	?	60	57	+3	Z	0	C	0	70	52	—		
Lorient ...	29.78	66	Z	0	C	29.65	-0.13	62	60	+2	SE	2	C	4	72	57	—		
Rochefort ...	29.78	76	SE	3	C	29.71	-0.07	58	53	-5	SE	4	bc	2	84	52	—		
Belfort ...	29.88	65	NW	1	bc	29.84	-0.04	64	59	+5	NW	2	C	*	?	?	0.08		
Lyons ...	29.85	67	SE	2	C	29.84	-0.01	61	56	+5	S	4	C	*	70	52	—		
Nice ...	29.93	60	SW	2	C	29.86	-0.07	?	57	?	E	4	C	1	64	52	0.12		
Perpignan ...	29.90	61	E	3	O	29.84	-0.06	62	58	+4	E	3	bc	*	68	54	—		
Biarritz ...	29.65	78	E	4	O	29.71	-0.06	61	59	0	W	2	bc	1	82	59	—		
SPAIN.																			
Corunna ...	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*		
Lisbon ...	?	60	S	4	O	29.64	-0.19	59	57	0	E	4	P	6	64	57	?		

WEATHER CHARTS

for 8 a.m. on

FRIDAY 24th MAY

1889.

BAROMETER, WIND & SEA.

(Explanation of Map)

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

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

* — forces above 10, — forces 8 to 10,
— forces 5 to 7, — forces 1 to 4,
○ — dead calm.

Sea Disturbance — where considerable, is shown thus.

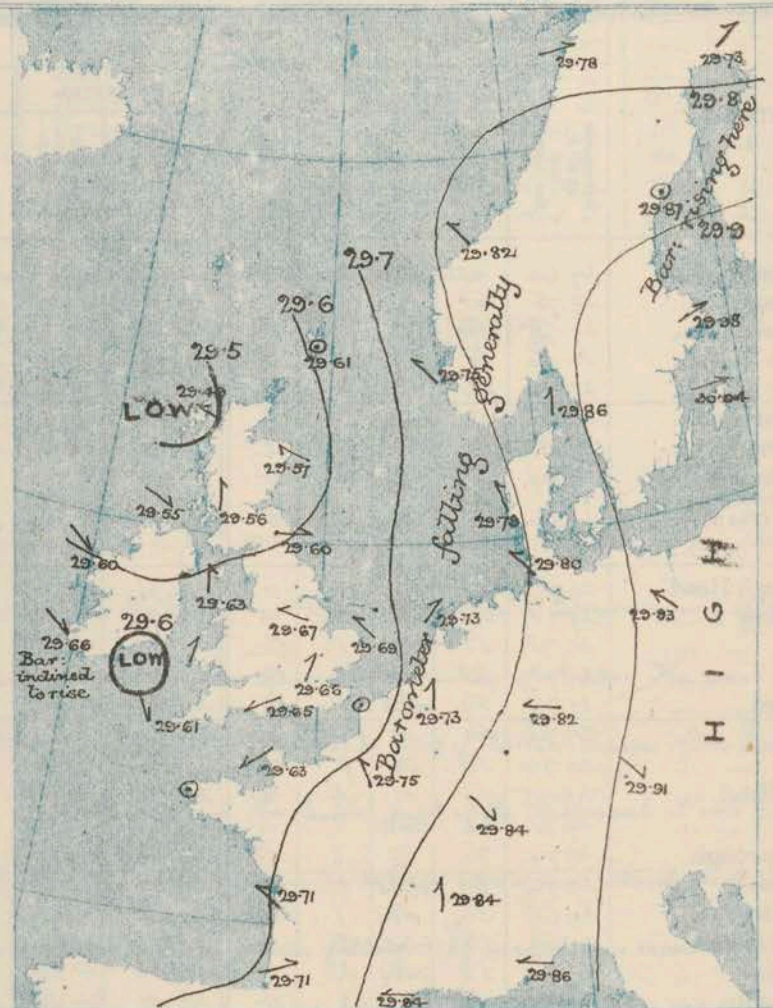
— Rough — High.

MEAN HEIGHT of the BAROMETER

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

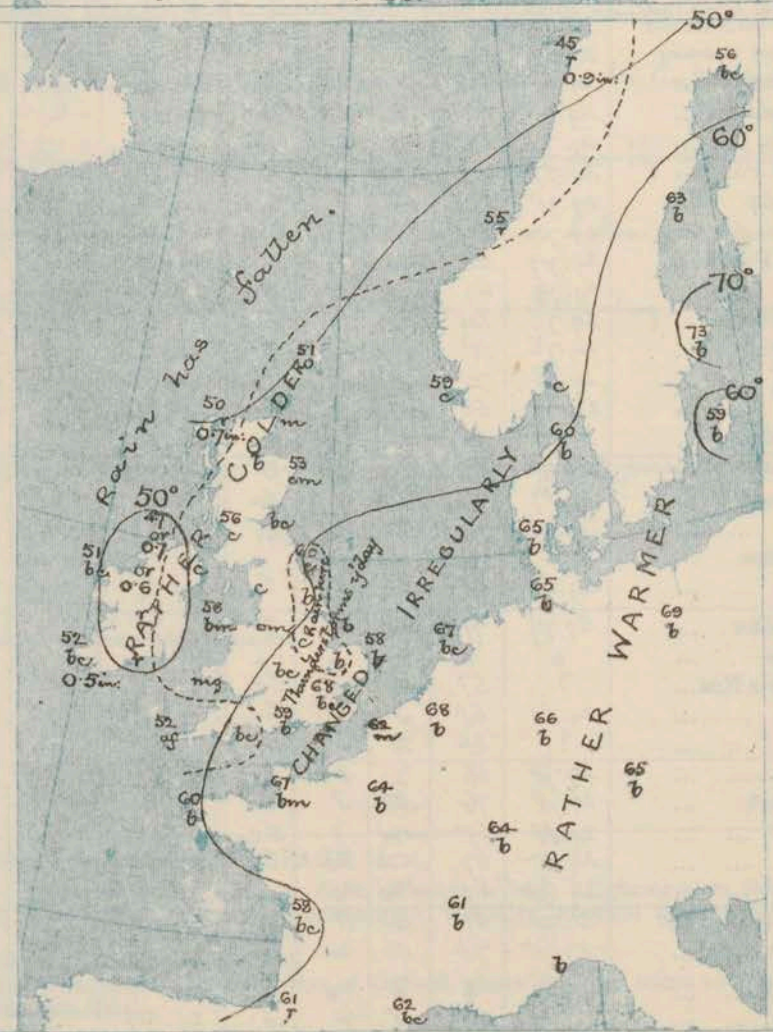
MEANS OF TEMPERATURE IN SHADE.

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	52.9	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	47.0	1.96
Ardrossan	58.2	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	2.99
Roche's Point	59.6	46.0	51.7	48.7	3.05
Pembroke	55.1	46.0	49.9	47.4	1.27
Scilly	56.3	43.2	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	52.3	49.2	1.77
LONDON	62.1	44.1	53.4	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

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



GENERAL SITUATION AT 8 A.M.

PRESSURE	Highest 29.9 to 30.0 ins. and more, over Sweden, the Baltic, central and eastern Europe. Lowest 29.5 ins. in a depression off our extreme northwestern coast, 29.6 ins. and less, in a local disturbance near Roches Point, 29.7 ins. and less, over the Bay of Biscay and off the southwest of Portugal. Gradients slight and irregular; Barometer falling except in the south of Ireland, where it is inclined to rise again.
TEMPERATURE	Highest 73° at Stockholm, 68° at Berlin, 68° in London, 67° at the Helder, 66° at York and Wiesbaden. Lowest 44° at Bodo, 47° at Malin Head, 48° at Mullaghmore and Parsonstown, 49° at Roches Point, 51° at Belmullet & Lumbagh. It rose to 81° at Hernsand, Stockholm and Rochefort yesterday, to 81° at Biarritz, Berlin and in London, and to 81° at Loughborough, but to only 74° at Paris.
WIND	Is light generally - chiefly S ^{ly} (but variable locally) over the eastern part of our area, and in Wales and the northwest of England - NW ^{ly} to N ^{ly} in the west of Ireland. Very variable elsewhere. It has varied a great deal between SE, SW, and W. over London during the past 24 hours.
WEATHER	Dull and rainy over Ireland and the Hebrides - fine and bright in most other places. Thunderstorms occurred in many parts of England yesterday, with rain at several stations. The storm in London was accompanied by heavy rain in the eastern suburbs, but very little in the west.
SEA	Smooth almost everywhere, slight at Stornoway, Valencia and Roches Point, moderate at Corunna.

PROBABLE CHANGES IN SYSTEM NOW PREVALENT

The present distribution of pressure is of a very unstable character, and thunderstorm depressions are likely to reappear over England shortly.

FORECASTS

for the 24 hours ending at NOON on 25TH MAY 1889.

DISTRICTS.		FORECASTS.	
0	{ SCOTLAND NORTH	{ SE ^{ly} to SW ^{ly} winds; very changeable, warm, thunder showers at times.	{ S ^{ly} and variable breezes; cloudy, rain at times, thundery.
1	{ SCOTLAND EAST		
2	{ ENGLAND N. E.		
3	{ ENGLAND EAST	{ Wind varying greatly; weather very warm at first, changeable, thundery and showery later, and becoming less warm.	{ NW ^{ly} and varying breezes; rainy at times, thundery, rather cold.
4	{ MIDLAND COUNTIES		
5	{ ENGLAND SOUTH		
		WARNINGS	
		None Issued.	

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

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

YESTERDAY'S 2 P.M. REPORTS.

	Bar.	Dry.	Wet.	Wind.	Woa.	Sea.		Bar.	Dry.	Wet.	Wind.	Woa.	Sea.
Skudesnaes ...	29.87	60	53	SE 8	C	4	Holyhead ...	29.84	56	52	SE 4	CC	2
Sumburgh Head ...	29.78	56	51	W 2	C	2	Valencia ...	29.81	53	52	SE 4	om	2
Stornoway ...	29.74	56	54	S 4	C	4	Scilly ...	29.83	57	54	SE 2	of	2
Aberdeen ...	29.77	65	56	S 4	CC	2	Jersey ...	29.87	64	56	SE 1	CC	1
Shields ...	29.86	58	54	E 1	C	2	Dungeness ...	29.82	64	58	SE 2	C	0
Ardrossan ...	29.79	61	56	SE 1	CC	1	London ...	29.78	79	67	SE 2	C	0
Malin Head ...	29.78	51	50	E 1	C	1	Yarmouth ...	29.83	63	60	N 1	C	0
Mullaghmore ...	29.76	59	54	SE 2	C	2	Rochefort ...	29.81	75	68	N 2	C	2
Belmullet ...	29.77	54	50	SE 1	dog	*							

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

The reports for yesterday morning showed that the barometer was highest, 30.2 in. and upwards, over the south of Russia, and lowest, 29.6 in. and less, in the extreme north of Norway. Over western Europe the distribution of pressure was very irregular, small depression with readings about 29.8 in. being found respectively over the northeast of France, and to the northwest and southwest of the Iberian Peninsula. Light or moderate breezes from the S^W or S^W were reported over Scandinavia and the north of our Islands, and light W⁴ breezes at most of the Russian stations. Over France, Spain and Central Europe the wind was chiefly SE⁴, while in the southern parts of our Islands, as well as over Italy and the Mediterranean it was exceedingly variable. The weather was fine over the greater part of Europe, but in the west and north of our Islands the sky was cloudy or overcast, while in the west of Norway and the extreme south of France rain was falling. A thunderstorm was in progress at Gran. Temperature had changed very irregularly, and readings ranged from a little above 70° at some of the Mediterranean stations, and a little above 65° in some parts of Germany and eastern England, to a few degrees below 50° over Lapland and the extreme north of Russia. The highest individual readings were 71° at Brindisi, Algiers and Spas, 70° at Stockholm and Palma, 69° at Lwinemunda and La Calle, 68° at Trieste, Lesina and Malta, and 67° at Cambridge, Berlin and Cagliari; the lowest were 45° at Archangel, Bodo and Haparanda, 49° at Hangö, 51° at Stockholm, 52° at Sumburgh Head, Malin Head and Belmullet, and 53° at Helsingfors, Christiansund, Mullaghmore and Hermanstad. In the course of the day a shallow depression was developed over England, and thunderstorms were experienced in many parts of our eastern, midland and southern counties. The thermometer rose during the day to a maximum of 81° at Loughborough and Cambridge, and 82° in London.

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 25th May 1889.*

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

STATIONS.	† YESTERDAY EVENING.						8 A.M. TO DAY.										PAST 24 HOURS.		
	Barometer at 32° F. and Sea Level.	Temp. in Shade.	WIND.		Weather.		BAROMETER.		SHADE TEMP.			WIND.		Weather.	Sea. (0 to 9.)		SHADE TEMP.		Amount of Rainfall.
			Dir.	Force. (0 to 12.)			Reading at 8 a.m. and Sea Level.	Difference from 8 a.m. yesterday.	Dry.	Wet.	Difference from 8 a.m. yesterday.	Dir.	Force. (0 to 12.)				Max.	Min.	
SCANDINAVIA.																			
Haparanda ..	29.80	42	2	0	c		29.72	-.01	53	48	-.03	ENE	2	bc	*		63	42	—
Hernösand ..	29.81	54	2	0	c		29.81	-.06	64	56	+1	SEW	2	c	*		75	50	—
Stockholm ...	29.91	64	SEW	2	c		29.91	-.07	75	59	+2	S	2	c	*		84	57	—
Wisby ...	29.96	64	S	2	c		29.92	-.02	66	58	+7	S	2	c	*		79	54	—
Bodö ...	29.79	48	2	0	c		29.58	+0.2	58	52	+13	E	2	c	1		43	0.08	
Christiansund...	29.64	65	ENE	1	c		29.53	-.29	65	57	+0	ENE	5	c	2		65	?	—
Skudesnaes ...	29.69	57	ENE	4	bc		29.58	-.17	57	53	-.2	ENE	4	o	4		57	55	—
Christiania Fjord (Fæder)	26.20	63	ENE	4	c		29.74	-.15	63	58	0	ENE	5	c	2		66	61	—
Skagen (The Scaw)	26.18	53	S	1	c		29.72	-.14	60	56	0	S	3	bc	2		70	54	—
Fanø ...	29.70	65	ENE	4	c		29.60	-.14	65	59	0	ENE	4	c	*		79	57	—
BRITISH ISLANDS.																			
Sumburgh Head	29.48	54	ENE	1	bc		29.44	-.17	48	44	-.03	E	0	P	2		56	46	0.19
Sornoway ...	29.51	49	SW	3	P		29.46	-.03	50	49	0	W	4	o	4		52	42	0.58
Wick ...	29.50	53	NW	2	o		29.48	-.03	53	48	-.2	NW	3	c	1		65	47	0.10
Nairn ...	29.49	59	W	2	bc		29.51	0.0	50	45	-.8	WNW	1	bc	1		70	47	—
Aberdeen...	29.54	60	S	2	bc		29.54	-.03	51	46	-.2	WNW	2	c	2		65	49	0.23
Leith ...	29.54	63	W	2	c		29.58	-.01	51	46	-.7	W	2	bc	*		70	47	0.01
Shields ...	29.56	56	2	0	o		29.56	-.04	51	48	-.9	NW	2	o	2		62	49	0.29
Spurn Head ...	29.55	60	2	0	c		29.51	-.14	55	54	-.9	NNE	3	c	3		65	52	0.49
York ...	29.54	59	ENE	1	Pt		29.51	-.12	54	53	-.4	NW	2	o	*		75	53	0.35
Loughborough	29.54	63	W	1	c		29.55	-.12	54	52	-.2	W	2	ogm	*		81	53	0.28
GERMANY.																			
Ardrossan ...	29.53	53	NW	3	o		29.60	+0.04	54	48	-.2	W	3	c	2		56	47	—
Malin Head ...	29.59	52	WNW	3	c		29.61	+0.06	51	50	+4	W	3	bc	2		53	46	0.02
Mullaghmore ...	29.63	53	WNW	5	c		29.65	+0.06	52	47	+4	WNW	3	bc	2		53	47	0.03
Belmullet ...	29.66	54	WNW	3	c		29.67	+0.07	52	49	+1	W	2	bc	*		54	48	0.05
Donaghadee ...	29.61	50	NE	3	c		29.65	+0.08	51	49	-.2	WNW	3	c	1		56	49	0.03
FRANCE & NETHERLANDS.																			
Barrow-in-Furness	29.56	53	NW	3	o		29.58	-.05	51	48	-.5	NW	4	o	*		62	50	0.02
Liverpool (Bidston)	29.59	53	WNW	3	o		29.61	-.03	51	47	-.6	NW	3	o	3		67	50	0.14
Holyhead ...	29.61	52	WNW	3	c		29.65	+0.02	54	50	-.2	N	2	c	2		60	48	—
Parsonstown ...	29.64	57	2	0	c		29.71	+0.08	52	48	+4	2	0	bc	*		60	37	0.02
Valencia ...	29.72	54	WNW	2	c		29.74	+0.08	53	51	+2	WNW	1	c	1		57	48	—
Roche's Point...	29.65	58	WNW	3	c		29.70	+0.10	53	49	+4	WNW	4	c	2		59	46	0.06
Pembroke ...	29.59	52	N	3	P		29.62	-.03	52	50	-.1	N	5	c	3		57	48	0.02
Scilly ...	29.57	53	WNW	5	o/p		29.59	-.02	54	50	+2	N	6	c	4		56	51	0.10
Prawle Point ...	29.54	53	2	0	P		29.54	-.09	56	55	-.3	NE	4	Pg	2		64	58	0.32
Jersey ...	29.53	63	WNW	3	c/g		29.54	-.09	58	56	-.9	ENE	2	om	2		72	56	—
SPAIN.																			
Hurst Castle ...	29.51	65	ENE	3	bc		29.55	-.10	60	58	+1	WNW	2	now	1		70	57	—
Dungeness ...	29.55	60	E	3	bc		29.55	-.13	58	55	-.1	SW	4	bc	3		70	55	—
London ...	29.53	74	ENE	3	bc		29.53	-.13	64	60	-.4	WNW	1	bc	*		81	59	0.03
Oxford ...	29.53	65	NW	1	bc		29.55	-.11	54	52	-.1	NW	3	o	*		77	54	—
Cambridge ...	29.53	72	SE	1	c		29.51	-.16	64	62	0	2	0	bc	*		78	53	0.04
ITALY.																			
Yarmouth ...	29.59	60	SE	2	c		29.52	-.17	58	57	0	SE	3	c	2		61	54	0.11
Cuxhaven ...	29.71	74	SE	2	bc		29.66	-.14	65	65	0	SE	2	c	*		81	63	—
Berlin ...	29.83	71	SE	3	c		29.79	-.14	67	57	-.2	SE	3	c	*		81	59	—
Wiesbaden ...	*	*	*	*	*		29.67	-.15	64	59	-.2	E	1	c	*		77	55	—
Munich ...	29.78	58	NE	3	c		29.72	-.19	57	52	-.8	NW	3	c	*		73	46	—
PORTUGAL.																			
The Helder ...	29.65	68	ENE	1	c		29.59	-.14	67	63	0	SW	1	c	1		73	53	0.08
Brussels ...	*	*	*	*	*		29.60	-.13	67	61	-.1	SW	1	bc	*		80	61	—
Cape Gris Nez...	?	64	NE	2	bc		29.7	?	63	59	+1	SW	3	c	1		75	53	—
Paris ...	29.61	74	SW	3	P		29.62	-.13	64	62	0	S	1	bc	*		78	60	0.16
Brest ...	29.58	56	WNW	3	P		?	?	57	57	-.3	X	0	o	1		72	50	0.32
AFRICA.																			
Lorient ...	29.54	60	SW	2	P		29.51	-.14	59	59	-.3	X	0	P	2		68	59	0.20
Rochefort ...	29.66	66	SW	1	o		29.58	-.13	60	60	+2	WNW	1	P	2		68	54	0.38
Belfort ...	29.71	70	NW	1	bc		29.65	-.19	63	61	-.1	NW	1	c	*		78	53	0.04
Lyons ...	29.68	67	S	1	bc		29.62	-.22	63	57	+2	ENE	1	bc	*		74	54	—
Nice ...	29.75	66	E	6	bc		29.59	-.27	66	56	?	E	6	c	4		70	61	—
ASIA.																			
Perpignan ...	29.73	63	SE	1	o		29.54	-.30	58	58	-.4	E	1	P	*		68	57	0.91
Biarritz ...	29.60	61	W	4	o		29.53	-.18	59	57	-.2	N	1	o	0		75	57	0.2
AUSTRALIA.																			
Coranna ...	*	*	*	*	*														
Lisbon ...	29.62	60	N	5	o		29.70	+0.06	57	54	-.2	WNW	5	o	2		66	55	0.28

1889

(Explanation of Map)

Sea Disturbance— where considerable, is shewn thus.

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

A hand-drawn weather map of the North Atlantic and Europe, showing isobars, pressure systems, and handwritten annotations. The map includes labels for 'L' (Low) and 'H' (High) pressure systems, and handwritten notes such as 'Bar. rising', 'Barometer', and 'falling'. Isobars are labeled with values like 29.5, 29.6, 29.7, 29.8, 29.9, 30.0, and 30.1. The map also shows the coastline of North America and Europe, with the word 'Generally' written vertically along the European coast.

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.

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

- Top Right:** "Rain has 58 fallen" (circled), "60°", "53 62".
- Center Right:** "No DEGREES WARMER here", "70°", "75 6", "66 6".
- Center Left:** "RAIN COLDER", "50°", "50 6", "51 6", "52 6", "53 6", "54 6", "55 6", "56 6", "57 6", "58 6", "59 6", "60 6".
- Bottom Left:** "RAIN COLDER", "50°", "50 6", "51 6", "52 6", "53 6", "54 6", "55 6", "56 6", "57 6", "58 6", "59 6", "60 6".
- Bottom Center:** "very IN storm yesterday", "60°", "61 6", "62 6", "63 6", "64 6", "65 6", "66 6", "67 6", "68 6", "69 6", "70 6".
- Bottom Right:** "PLACES 67 6", "60°", "51 6", "60 6".

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

GENERAL SITUATION AT 8 A.M.

PRESSURE

Highest, 29.7 ins: to 29.9 ins: over Sweden, the Baltic and Germany—29.60 ins: to 29.75 ins: on our western coasts, and 29.70 ins: at Dublin.
 Lowest, about 29.4 ins: to the northward of Sumburgh Head, and between 29.5 ins: and 29.6 ins: in a zone extending from the Mediterranean, over the west of France, England, and the North Sea to the Shetlands.
 Gradient moderate to slight. Barometer falling on the Continent, uneasy elsewhere.

TEMPERATURE

Highest, 75° at Stockholm, 67° at Berlin, Brussels, and the Rhine, 66° at Nice and Marseilles, and 65° at Copenhagen, Paris and Christiansund, 64° at Paris and London.
 Lowest, 48° at Sumburgh Head, 50° at Skirroway and Harwich, 51° at Aberdeen and Shields, 52° at Pembroke, and 57° at Dublin.
 It has fallen decidedly over England and Scotland since yesterday, risen a little in Ireland.

WIND

Moderate from between W. and N. at our western stations, and from S. or S.E. at stations lying to the eastward of the North Sea.
 Light and variable over England and France.
 E. on the northern shores of the Mediterranean, and blowing strongly at Nice.

WEATHER

Fine over Scandinavia, the Baltic, Germany, and east of France—also in Ireland, Wales, and the west of England.
 Cloudy and unsettled elsewhere, with rain in the west of France and at Doule Point.
 Thunderstorms occurred yesterday in the north and east of England, and showers in many other places; at York the rain-fall was heavy.

SEA

Moderate at Skirroway and Bally, slight or smooth elsewhere.

PROBABLE CHANGES IN SYSTEM NOW PREVALENT

Further showers, with thunderstorms at times, are probable over England, with cool weather, and rain in most parts of Scotland.
 In Ireland (more especially in the east and southeast) fine weather is probable.

FORECASTS

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

DISTRICTS.

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

FORECASTS.

W^{ly} and SW^{ly} winds, light; changeable rain at times.
 NW^{ly} winds, light; cloudy, showers at times, thunder locally.



DISTRICTS.

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

WARNINGS

FORECASTS.

Same as N^o 0 and 1.
 NW^{ly} winds, moderate; fair.
 Same as N^o 0 and 1.
 Same as N^o 8.
 NONE ISSUED.

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

YESTERDAY'S 2 P.M. REPORTS.

	Bar.	Dry.	Wet.	Wind.	Wes.	Sea.		Bar.	Dry.	Wet.	Wind.	Wes.	Sea.
Skudesnæs ...	29.70	59	55	SE 7	C	4	Holyhead ...	29.62	57	54	W 1	0	1
Sumburgh Head ...	29.52	54	53	ESE 1	bc	1	Valencia ...	29.69	57	50	NW 0	0	3
Stornoway ...	29.50	51	51	W 2	7	3	Scilly ...	29.58	54	53	NW 5	0	3
Aberdeen ...	29.50	64	53	SE 4	6	3	Jersey ...	29.57	66	62	ESE 1	6m	1
S' eids ...	29.59	60	58	2 0	7	2	Dungeness ...	29.60	69	62	ESE 1	6	1
Ardrossan ...	29.56	53	52	SE 0	0	3	London ...	29.56	70	65	ESE 2	C	2
Malin Head ...	29.58	52	50	W 3	0	3	Yarmouth ...	29.62	60	57	SE 2	6	2
Mullaghmore ...	29.62	54	48	W 5	0	3	Rocheport ...	29.65	63	61	SW 4	0	2
Belmullet ...	29.66	53	49	NW 3	bc	*							

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

The reports for yesterday morning showed that a large high-pressure system, of slight intensity, covered the whole of eastern and central Europe, while several shallow low-pressure systems were found over the British Isles, the Bay of Biscay, and Spanish Peninsula, and another was advancing northwards over Algeria. The wind was consequently, SE^{ly} to S^{ly} at most of the Continental stations, but was variable over Great Britain and Bay of Biscay, E^{ly} (but variable) over the Mediterranean. In Ireland it had shifted to NW. The weather was fine except in the west and northwest, where it was changeable, in many places very cloudy, and in some rainy and thundery. Temperature was, high as a rule, but has fallen decidedly in Ireland. The morning reading varied from rather below 50° over Lapland and Northern Russia, as well as at some of the Irish stations to upwards of 60° over the Baltic, Germany, France, and the east of England, and to 70° and more at several of the Mediterranean stations, Bilbao and Stockholm, &c. It was locally low, 55° to 60°, over Austria-Hungary. The highest individual values were 74° at La Cille, 73° at Stockholm, 71° at Bilbao and Cagliari, 70° at Brindisi, 69° at Berlin, 68° in London; the lowest were 45° at Porto, 47° at Archangel and Malin Head, 48° at Mullaghmore and Ramenstown, 48° at Rochepoint, and 50° at Stornoway and Puck's Peath.

Later on the thermometer rose to 81° at Loughborough, in London and at Berlin, 78° at Cambridge, Paris and Lyons. Thunderstorms occurred generally in the north and east of England, but it was only in a few localities that the rainfall was large.

NOTE. It will be observed that the front page of yesterday's report was wrongly dated.

EXPLANATION OF COLUMNS GIVEN ON PAGE 1.

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

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

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

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DAILY WEATHER REPORT.

for SUNDAY 26TH MAY. 1889.
 Issued by the Meteorological Office, 63 Victoria Street, London. R. H. SCOTT, Secretary.

STATIONS.	+ YESTERDAY EVENING.						8 A.M. TO DAY.										PAST 24 HOURS.		
	Barometer at 3 P. and Sea Level.	Temp. in Shade.	WIND.		Weather.	Barometer. Reading at 8 P. and Sea Level.	Difference from 8 a.m. yesterday.	SHADE TEMP.		Difference from 8 a.m. yesterday.	WIND.		Weather.	Sea. (0 to 9.)	SHADE TEMP.		Amount of Rainfall.		
			Dir.	Force. (0 to 12.)				Dry.	Wet.		Dir.	Force. (0 to 12.)			Max.	Min.			
SCANDINAVIA.																			
Haparanda ..	29.66	50	SW	4	c	29.69	-0.3	48	44	-5	WSW	4	c	*	72	41	—		
Hernösand ...	29.71	55	S	6	c	29.76	-0.5	60	54	-4	SSW	2	c	*	82	48	—		
Stockholm ...	29.85	62	SSE	2	c	29.85	-0.6	71	59	-4	SSE	2	c	*	79	53	—		
Wisby ...	29.88	60	ESE	2	c	29.88	-0.4	69	59	+3	S.	4	c	*	66	43	—		
Bodö ...	29.47	66	E	2	bc	29.50	-0.8	48	45	-10	SSW	9	c	4	70	46	0.12		
Christiania and...	29.46	54	WSW	8	f	29.71	+1.8	49	46	-16	WSW	4	o	3	63	48	0.43		
Skudesnaes ...	29.62	54	NNW	4	o	29.67	+0.9	49	48	-8	NNW	5	p	3	?	?	—		
Christiania Fjord (Fjord)	29.68	64	SSE	5	c	29.70	-0.4	63	58	0	SSE	5	c	?	68	54	—		
Skagen (The Scaw)	29.67	58	S	3	c	29.67	-0.5	59	56	-1	S	2	c	2	75	57	—		
Fanö ...	29.62	68	SSE	4	c	29.64	-0.1	68	61	+3	SSE	3	c	*	53	46	0.06		
BRITISH ISLANDS.																			
Sumbargh Head	29.52	49	W	2	c	29.76	+3.2	49	44	+1	NNW	1	o	1	53	43	0.10		
Stornoway ...	29.59	51	S	2	o	29.69	+2.2	53	51	+3	SW	2	c	3	62	35	—		
Wick ...	29.60	58	NW	1	c	29.75	+2.7	52	49	-1	SSE	3	c	1	62	40	—		
Nairn ...	29.59	58	W	1	bc	29.71	+2.0	54	50	+4	S	0	c	1	56	48	—		
Aberdeen...	29.67	51	SSE	2	bc	29.76	+2.2	53	51	+4	E	1	c	1	66	42	—		
Leith ...	29.59	62	W	2	c	29.73	+1.5	53	51	+4	E	1	c	*	53	42	—		
Shields ...	29.59	52	E	1	c	29.70	+1.4	52	49	+1	NE	1	c	2	58	44	0.05		
Spurn Head ...	29.61	52	NNE	3	o	29.68	+1.7	51	50	-4	NNE	3	p	3	58	44	0.05		
York ...	29.58	57	NNE	1	c	29.63	+1.2	52	50	-2	ENE	1	o	*	58	49	0.12		
Loughborough	29.63	57	NNE	1	o	29.69	+1.4	50	47	-4	NE	1	og	*	62	47	—		
Ardrossan ...	29.61	59	W	2	c	29.71	+1.1	53	50	+3	ENE	1	bc	1	56	50	—		
Malin Head ...	29.68	52	NW	1	c	29.66	+0.5	53	51	+2	SSE	2	bc	1	58	49	0.03		
Mullaghmore ...	29.62	53	S	0	ov	29.64	-0.1	53	50	+1	S	4	c	2	56	51	0.08		
Belmullet ...	29.62	53	SW	2	o	29.63	-0.4	54	53	+2	NNW	2	c	*	56	50	—		
Donaghadee ...	29.66	54	S	2	bc	29.71	+0.6	52	51	+1	NNW	2	bc	0	57	46	—		
GERMANY.																			
Barrow-in-Furness	29.62	53	NW	3	bc	29.68	+1.0	52	50	+1	E	2	c	*	57	47	—		
Liverpool (Bidston)	29.65	50	NNW	2	c	29.70	+0.9	56	51	+5	NNW	1	bc	2	59	44	—		
Holyhead ...	29.69	51	NW	1	c	29.69	+0.4	56	50	+2	S	0	c	0	63	50	—		
Parsonstown ...	29.65	53	S	0	bc	29.67	-0.4	53	50	+3	S	0	c	*	60	50	0.06		
Valencia ...	29.70	56	SW	3	c	29.67	-0.7	57	54	+2	W	1	bc	1	62	50	—		
Roche's Point...	29.69	58	SW	2	c	29.67	-0.2	54	51	+1	SW	3	c	3	57	45	—		
Pembroke ...	29.65	53	N	2	c	29.68	+0.6	53	52	+3	S	1	bc	0	56	50	—		
Scilly ...	29.66	54	N	5	c	29.69	+1.0	53	52	+1	NW	1	c	2	59	52	0.01		
Prawle Point ...	29.60	57	NNE	3	o	29.65	+1.1	58	53	+2	N	2	og	2	65	53	—		
Jersey ...	29.57	64	NE	2	og	29.65	+1.1	62	58	+4	NW	3	bc	3	70	53	0.02		
Hurst Castle ...	29.57	67	ENE	3	om	29.65	+1.0	53	53	-5	NNE	2	om	1	75	51	—		
Dungeness ...	29.54	63	SSE	1	bc	29.62	+0.7	53	54	-3	NE	2	f	2	72	54	0.90		
London ...	29.57	65	N	1	c	29.64	+1.1	54	54	-10	NE	1	o	*	64	49	0.07		
Oxford ...	29.60	56	NE	2	o	29.67	+1.2	50	48	-4	NE	2	p	*	69	49	0.35		
Cambridge ...	29.61	54	N	1	o	29.67	+1.6	53	53	-11	N	1	p	*	65	50	0.12		
Yarmouth ...	29.59	55	NNW	3	c	29.64	+1.2	53	52	-5	NNE	3	om	3	75	64	—		
Cuxhaven ...	29.53	66	SSE	2	c	29.61	-0.5	65	64	0	ESE	2	c	*	75	59	0.04		
Berlin ...	29.69	67	SSE	3	c	29.64	-1.5	60	59	-7	ESE	3	o	*	77	54	—		
Wiesbaden ...	*	*	*	*	*	29.58	-0.9	62	59	-2	NE	1	c	*	72	48	—		
Munich ...	29.60	63	S	0	c	29.60	-1.2	63	56	+6	NW	2	c	*	70	57	—		
FRANCE & NETHERLANDS.																			
The Helder ...	29.61	64	SSE	1	bc	29.61	+0.2	59	?	-8	NW	1	c	1	77	57	0.04		
Brussels ...	*	*	*	*	*	29.60	0.0	65	?	-2	N	1	c	*	81	50	—		
Cape Gris Nez...	?	64	E	1	bc	?	?	53	52	-10	ENE	3	f	3	77	53	—		
Paris ...	29.56	71	NE	1	c	29.60	-0.2	66	62	+2	N	2	c	*	59	46	—		
Brest ...	?	57	NNE	3	c	?	?	54	51	-3	N	4	o	2	64	57	—		
Lorient ...	29.56	63	W	1	bc	29.63	+1.2	58	57	-1	NNE	2	o	2	66	54	0.35		
Rochefort ...	29.59	66	SSE	1	o	29.67	+0.9	61	61	+1	ESE	1	o	2	79	53	—		
Belfort ...	29.51	69	NW	1	c	29.57	-0.8	63	60	0	E	1	c	*	76	53	—		
Lyons ...	29.45	61	E	1	c	29.56	-0.6	59	57	-4	NNW	1	bc	*	70	53	0.24		
Nice ...	29.62	59	E	6	p	29.54	-0.5	57	56	-9	W	3	p	2	64	56	2.32		
Perpignan ...	29.51	58	E	2	p	29.54	0.0	59	53	+1	E	1	p	*	61	52	0.39		
Biarritz ...	29.56	58	NW	4	o	29.60	+0.7	54	53	-5	W	6	FT	4	61	48	0.35		
Corunna ...	*	*	*	*	*	29.78	+0.9	53	53	-4	SSE	1	p	4	61	50	0.12		
Lisbon ...	29.81	53	NW	4	bc	29.73	+0.3	52	50	-5	NNW	5	p	4					

WEATHER CHARTS

for 8 a.m. on

Sunday, 26th May,

1889.

BAROMETER, WIND & SEA.

(Explanation of Map)

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

Sea Disturbance — where considerable, is shown thus.

MEAN HEIGHT of the BAROMETER

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

STATIONS.	MEAN READINGS.
Sumburgh Head	29.878
Stornoway	29.883
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.

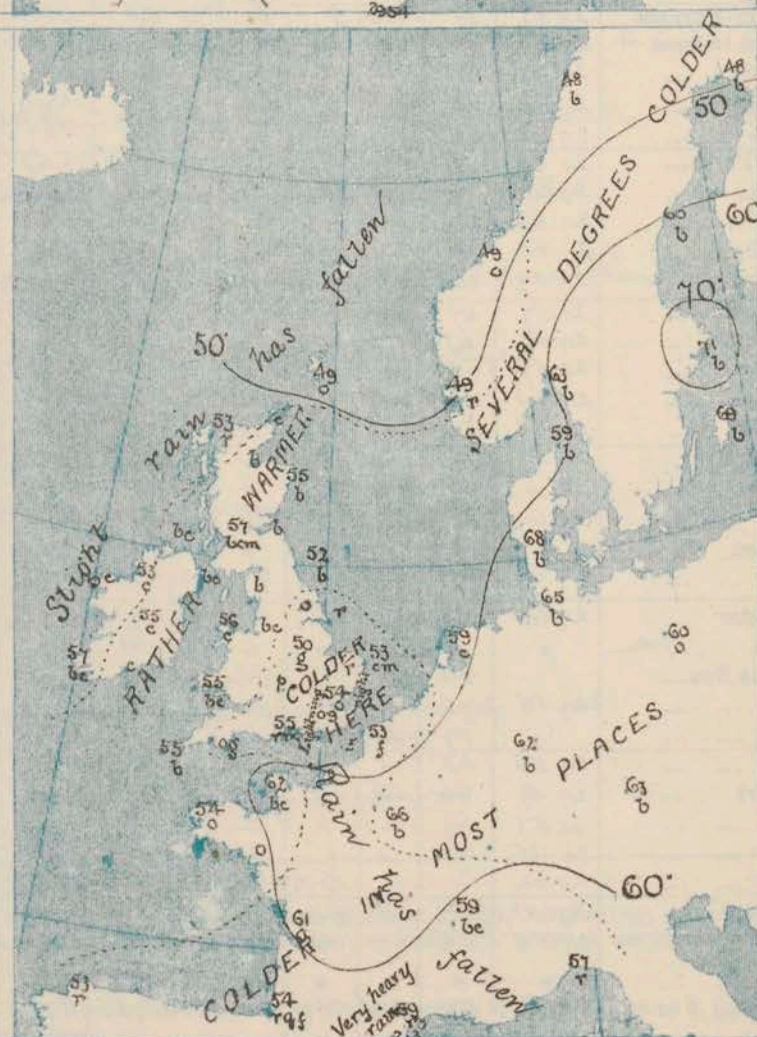
Temperature — Isotherms are drawn for each 10° changes since previous morning are stated in words.
Weather — is shown by Letters of the Beaufort Scale.
Rainfall — A dotted line separates the districts in which rain has fallen from those where there has been none. Falls of 0.5 in. or more, are quoted 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	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	50.6	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
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 29.8 in. to 30.3 in. in a large anticyclone over Russia, Poland and Hungary, 29.7 in. 2 more off our extreme Southwest coast. Lowest 29.5 in. at Leghorn, 29.6 in. and less over the Mediterranean, Italy, the south of France and the Atlantic. Gradient slight; favourable for E. and SE. winds over Russia and the Baltic, and for S.W. winds over the Atlantic. Barometer rising steadily in the north, slightly elsewhere, except in the south, where it was falling slightly.
TEMPERATURE	Highest 71° at Stockholm, 69° at Wisby, 68° at Tain, 66° at Paris, 65° at Brussels and 62° at Jersey. Lowest 48° at Bodø, Haparanda and at Madrid, 49° at Christiansund, Skudsmoes and Lumburg Head, 50° at Oxford and Loughborough, 51° at Spurn Head, and 52° at Biarritz, Brest and in London. It had fallen still more over England, and was falling in France and Germany also rising in Russia.
WIND	E. to SE. over Russia, Germany and the Baltic, SW. over the northern part of Scandinavia. NE. to N. over England and Brittany, NW. over Spain. W. to SW. over Algeria, variable elsewhere — light to moderate generally in force, but gales at Bodø.
WEATHER	Fine over Scandinavia, the Baltic and temporarily in several parts of France. Changeable and unsettled elsewhere, with rain in several places. Very heavy rain had fallen at Perpignan since Saturday and in London during the previous night, and thunderstorms had occurred in several places. Our western districts had been dry generally.
SEA	Moderate on the Spanish coast, and at Bodø, slight or smooth elsewhere.

PROBABLE CHANGES IN SYSTEM NOW PREVALENT

FORECASTS

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

DISTRICTS.

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

FORECASTS.

NONE ISSUED

DISTRICTS.

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

WARNINGS

FORECASTS.

NONE ISSUED

NONE ISSUED

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

YESTERDAY'S 2 P.M. REPORTS.

	Bar.	Dry.	Wet.	Wind.	Wes.	Sea.		Bar.	Dry.	Wet.	Wind.	Wes.	Sea.
Skudesnæs ...	29.57	62	57	SSE 6	cm	4	Holyhead ...	29.68	53	50	N 2	b	1
Sumburgh Head ...	29.47	51	48	WSW 3	b	3	Valencia ...	29.72	59	53	W 3	bcr	3
Stornoway ...	29.54	54	52	NW 3	c	3	Scilly ...	29.64	54	49	N 6	b	4
Aberdeen ...	29.57	58	49	SSE 3	b	2	Jersey ...	29.56	63	61	X 0	cm	0
Shields ...	29.60	52	48	E 1	0	2	Dungeness ...	29.56	71	63	WSW 1	bc	1
Ardrossan ...	29.61	61	53	W 3	b	2	London ...	29.57	68	61	W 1	c	*
Malin Head ...	29.64	56	53	WNW 3	b	3	Yarmouth ...	29.54	63	60	NNE 4	c	3
Mullaghmore ...	29.66	58	50	WNW 2	bc	2	Rochefort ...	29.60	63	61	W 2	r	2
Belmullet ...	29.66	56	52	WSW 2	0	*							

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

The reports for yesterday morning showed that pressure varied from between 29.7 ins. and 30.1 ins. in a large system which lay over Sweden, the Baltic and the whole of central, southeastern and eastern Europe, and that it exceeded 29.7 ins. in a second system which lay over the Atlantic, to the westward of our Islands and Spain. These two systems were separated by a well-marked low-pressure band which stretched from the Pyrenees across the west of France and Bay of Biscay, the Channel, England and the North Sea, and united a low-pressure system which lay off our northern coasts with another lying over the Mediterranean, near Barcelona. S⁴ and SE⁴ winds of little strength prevailed over northern, eastern and central Europe, NW⁴ and N⁴ winds over Spain and the greater part of the British Islands, while in the low-pressure band, mentioned above, the wind was extremely variable. In the south of France and northeast of Spain there was a gale from the End, but on the other Mediterranean shores the wind varied greatly. The weather was fine both at our western stations, and over the northern, eastern and central parts of the Continent, but was becoming very unsettled elsewhere, with rain and thunder at times. Temperature was falling decidedly over England and the east of Scotland, and in the south of France, it ranged from less than 50° at Archangel and Sumburgh Head and from between 50° and 60° over the United Kingdom, Spain and Austria-Hungary to 60° and more over Russia, Italy, the Adriatic and Mediterranean, and to more than 70° in one or two places. The highest individual values were 75° at Stockholm, 72° at Gass and La Bolla, 71° at Palermo and Sanguinaires; as well as at Memel, 70° at Riga, 69° at Swinemunde, 68° at Brindisi, 67° at Leghorn, Algiers, Marseilles and Berlin, 65° at Rome and Moscow, and 64° at Hernösand; the lowest were 43° at Archangel, 48° at Sumburgh Head, 50° at Naïm, 51° at Aberdeen, Leith and Shields, and 53° at Madrid.

Later in the day thunderstorms occurred in many localities, and large quantities of rain fell in London. Temperature, however, rose to 80° and more in some parts of France, Germany and Italy during the day, but was not nearly so high in our Islands as on the previous few days.

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 27TH MAY 1889.

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

STATIONS.	† YESTERDAY EVENING.						8 A.M. TO DAY.									PAST 24 HOURS.		
	Barometer at 32° F. and Sea Level.	Temp. in Shade.	WIND.		Weather.		BAROMETER.		SHADE TEMP.			WIND.		Weather.	Sea 0 to 9.)	SHADE TEMP.		Amount of Rainfall.
			Dir.	Force (0 to 12.)			Reading at 8 A.M. and Sea Level.	Difference from 8 A.M. yesterday.	Dry.	Wet.	Difference from 8 A.M. yesterday.	Dir.	Force (0 to 12.)			Max.	Min.	
SCANDINAVIA.																		
Haparanda ..	29.63	48	SW	4	bc		29.75	+0.6	53	46	+5	N	2	c	*	59	45	—
Hernösand ...	29.69	59	S	6	c		29.86	+1.0	53	47	-7	N	2	o	*	64	52	—
Stockholm ...	29.80	59	SE	2	c		29.77	-0.8	68	59	-3	SE	2	bc	*	79	57	—
Wisby ...	29.80	60	SE	4	c		29.75	-1.3	62	58	-7	SE	4	bc	*	79	57	—
Bodö ...	29.71	44	WNW	8	o		29.91	+0.1	42	41	-6	WNW	4	o	2	50	41	—
Christiansund...	29.86	50	WNW	2	o		29.89	+1.8	50	44	+1	WNW	6	m	3	50	45	—
Skudesnaes ...	29.74	51	WNW	6	c		29.75	+0.8	53	56	+8	Z	0	c	3	7	48	—
Christiania Fjord (Farder)	29.71	64	Z	0	c		29.74	+0.4	60	57	-3	WNE	1	c	1	68	59	—
Skagen (The Scaw)	29.69	60	SE	1	c		29.67	0.0	62	56	+3	N	1	bc	0	72	55	—
Fanö ...	29.68	60	SE	2	c		29.71	+0.7	69	63	+1	NW	1	c	*	77	54	—
BRITISH ISLANDS.																		
Sumburgh Head	29.83	51	Z	0	c		29.85	+0.9	50	46	+1	Z	0	c	0	54	42	—
Stornoway ...	29.80	56	E	2	c		29.76	+0.7	53	53	+2	S	2	c	2	61	40	—
Wick ...	29.85	58	E	1	c		29.82	+0.7	53	49	+1	SE	3	bc	2	60	45	—
Nairn ...	29.75	62	ENE	1	c		29.81	+1.0	52	50	-2	Z	0	cm	0	62	47	—
Aberdeen...	29.85	51	E	3	c		29.86	+1.0	52	48	-3	ESE	2	bc	2	57	42	—
Leith ...	29.81	58	E	2	c		29.84	+1.1	52	48	-3	Z	0	c	*	61	43	—
Shields ...	29.79	54	NE	2	c		29.83	+1.3	51	48	-1	NE	2	o	2	58	48	—
Spurn Head ...	29.71	50	WNE	3	o		29.77	+0.9	50	49	-1	WNE	3	r	3	52	48	0.27
York ...	29.76	53	ENE	1	o		29.77	+1.4	52	50	0	WNE	2	o	*	58	49	0.09
Loughborough	29.75	53	WNE	2	o		29.78	+0.9	50	49	0	WNE	2	r	*	58	49	0.70
Ardrossan ...	29.73	62	ENE	1	o		29.82	+1.1	53	50	-2	ENE	2	cm	1	64	45	—
Malin Head ...	29.74	57	E	2	cm		29.79	+1.3	56	54	+3	ENE	1	cm	1	58	49	—
Mallaghmore...	29.73	59	E	4	c		29.81	+1.7	53	54	+4	ENE	2	cm	2	61	47	—
Belmullet ...	29.76	57	WNE	2	c		29.81	+1.8	53	54	+1	SEW	1	o	*	60	47	—
Donaghadee ...	29.76	62	NE	1	c		29.84	+1.3	53	51	+1	ESE	3	c	2	62	50	—
Barrow-in-Furness	29.72	61	N	2	bc		29.80	+1.2	51	48	-1	NE	1	c	*	62	48	—
Liverpool (Bidston)	29.74	58	E	3	c		29.81	+1.1	52	48	-4	ENE	2	o	3	62	48	—
Holyhead ...	29.74	53	N	1	c		29.81	+1.2	56	52	0	ENE	3	bc	2	60	49	—
Parsonstown ...	29.73	57	Z	0	o		29.84	+1.7	51	49	-4	Z	0	bc	*	64	39	0.17
Valencia ...	29.76	57	NW	2	c		29.85	+1.8	53	53	0	WNW	1	bc	1	60	46	—
Roche's Point...	29.75	56	SE	2	c		29.81	+1.4	53	54	+3	N	2	c	3	59	50	0.06
Pembroke ...	29.72	53	NW	3	bc		29.76	+0.8	52	52	-3	WNW	2	cm	1	56	48	0.03
Scilly ...	29.78	57	WNW	1	c		29.78	+0.9	56	53	+1	NW	3	bc	3	58	51	0.01
Prawle Point ...	29.70	60	N	1	c		29.75	+1.0	53	51	-5	WNW	1	o	0	64	49	—
Jersey ...	29.68	59	WNW	3	cm		29.73	+0.8	53	53	-7	WNW	3	cm	0	66	52	0.03
Hurst Castle ...	29.68	58	WNE	1	cm		29.70	+0.8	54	53	-1	WNE	2	o	1	64	52	1.65
Dungeness ...	29.64	56	ENE	3	bc		29.68	+0.6	53	52	-2	ENE	3	o	2	75	52	0.45
London ...	29.69	56	N	2	od		29.71	+0.7	53	52	-1	Z	0	o	*	59	51	0.81
Oxford ...	29.74	51	NE	2	o		29.74	+0.7	50	50	0	WNE	1	o	*	55	49	1.43
Cambridge ...	29.74	53	N	1	r		29.73	+0.6	52	52	-1	NE	1	r	*	53	49	0.44
Yarmouth ...	29.69	53	WNE	3	cm		29.71	+0.7	53	52	0	WNE	3	o	4	56	50	0.01
Cuxhaven ...	29.68	66	N	2	c		29.69	+0.8	68	68	+3	Z	0	m	*	70	65	—
Berlin ...	29.60	67	N	3	c		29.66	+0.2	65	59	+5	N	3	c	*	75	53	—
Wiesbaden ...	*	*	*	*	*		29.66	+0.8	66	59	+4	NE	1	c	*	77	53	—
Munich ...	29.66	66	Z	0	bc		29.67	+0.7	63	58	0	NW	3	bc	*	73	53	—
FRANCE & NETHERLANDS.																		
The Helder ...	29.65	53	N	2	c		29.69		61	60		NE	1	c	2	66	53	—
Brussels ...	29.71	*	*	*	*		29.71		58	57		E	1	c	*	77	57	—
Cape Gris Nez...	29.63	65	WNE	3	o		29.66	+0.6	61	59	-5	NE	4	o	4	61	50	0.04
Antwerp ...	29.63	65	WNE	3	o		29.66	+0.6	61	59	-5	NW	1	o	*	81	59	0.04
Amsterdam...	29.63	53	N	3	c		29.66		54	54	0	Z	0	o	1	55	46	—
Rotterdam ...	29.73	60	N	3	o		29.75	+1.6	51	50	-7	N	2	c	2	63	48	—
Rocheport ...	29.72	64	WNW	3	bc		29.78	+1.1	59	59	-2	WNW	5	o	2	68	54	0.16
Belfort ...	29.62	67	E	1	bc		29.67	+1.0	65	62	+2	SW	1	o	*	80	53	—
Lyons ...	29.52	71	SEW	1	bc		29.67	+1.1	61	59	+2	S	2	o	*	77	56	0.24
Nice ...	29.62	60	Z	0	c		29.69	+1.5	59	58	+2	NE	1	c	0	63	54	0.16
Perpignan ...	29.60	70	Z	0	o		29.71	+1.7	63	59	+4	NW	2	o	*	74	59	0.04
Biarritz ...	29.67	59	WNW	5	r		29.82	+2.2	58	55	+4	WNW	6	o	5	61	54	0.35
PORTUGAL.																		
Corunna ...	*	*	*	*	*		29.90	+1.7	57	53	+5	WNW	4	bc	3	63	54	0.12
Lisbon ...	29.84	57	WNW	5	bc		29.90											

WEATHER

CHARTS

for 8 a.m. on

Monday, 27th May,

1889.

BAROMETER, WIND & SEA.

(Explanation of Map)

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

Sea Disturbance — where considerable is shown thus.

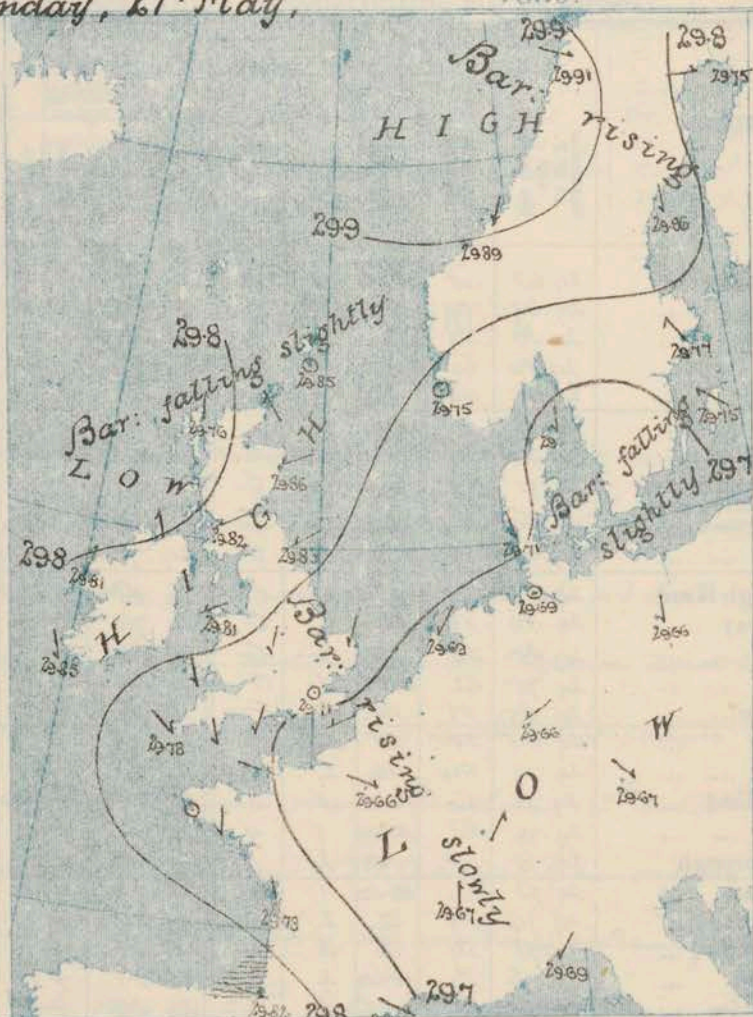
— Rough — High.

MEAN HEIGHT of the BAROMETER

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

During the 15 Years 1871—1885.

STATIONS.	MEAN READINGS.
Sumburgh Head	29.878
Stornoway	29.898
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.

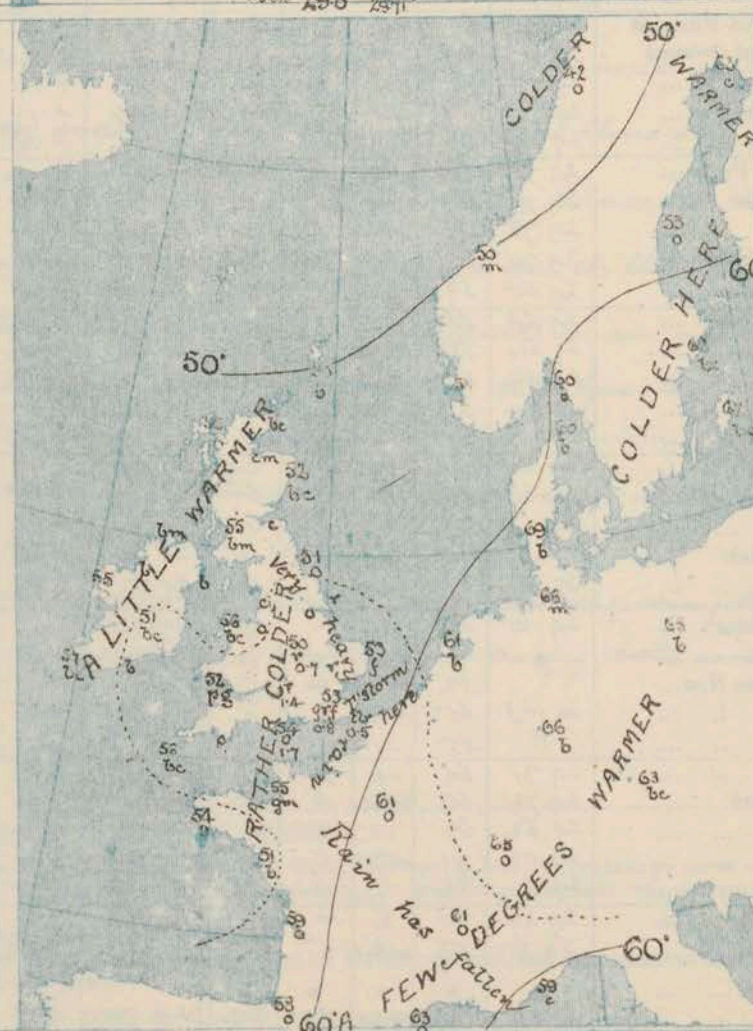
Temperature — Isotherms are drawn for each 10° Changes since previous morning are stated in words.
Weather — is shown by Letters of the Beaufort Scale.
Rainfall — A dotted line separates the districts in which rain has fallen from those where there has been none. Falls of 0.5 in. or more, are quoted 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	1.66
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	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	49.6	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	56.8	45.2	52.7	50.3	1.66
Jersey	59.3	47.1	53.5	50.4	1.74
Hurst Castle	58.8	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	1.73
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 10 years 1866—85.



GENERAL SITUATION AT 8 A.M.

PRESSURE

Highest 29.9 ins. and upwards, in the west of Norway, 29.8 ins. and upwards over all the more northern part of Scandinavia with the east of Scotland, the north of England and the greater part of Iceland.
 Lowest 29.4 ins. and less in a large and irregularly formed area lying over central Europe, the Baltic, the south of Sweden, the Netherlands and the southeast of England.
 Gradient slight. Barometer rising slowly at all but our extreme northwestern stations.

TEMPERATURE

Highest 69° at Faro, 68° at Stockholm and Copenhagen 66° at Wiesbaden, 65° at Berlin and Belfort; 63° at Munich and Paris.
 Lowest 42° at Bordeaux, 50° at Christiansund, Larnburgh Head, Spurn Head, Loughborough and Oxford; 51° at Barrow in Farness and the maximum in London yesterday was only 59°, but at Dungeness, where the weather was fine, the thermometer rose to 75°.

WIND

Light from the N^W over the greater part of Ireland and England, and the North Sea, fresher strong from NW in the southwest of France.
 Variable over Central Europe, light from SE in the south of Sweden, and from the S^W in the northern part of Scotland and Ireland.

WEATHER

Rainy at many of the English stations, with fog in London and at Yarmouth; a thunderstorm is reported at Dungeness.
 Dull over the central and southern part of France; fine in nearly all other localities.
 Since yesterday morning 0.7 in. of rain has fallen at Loughborough, 0.8 in. in London 1.4 in. at Oxford, 2.1 in. at Bristol, 2.5 in. at Cardiff.

SEA

Slight or smooth generally, but rather rough at Biarritz.

PROBABLE CHANGES IN SYSTEM NOW PREVALENT

The large area of low pressure to the southeast of our Islands appears to be moving away, and an improvement in the weather is likely to set in over England shortly. Another shallow depression is, however, appearing in the extreme northwest, so that the general appearance is by no means settled.

FORECASTS

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

DISTRICTS.

FORECASTS.

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

S^W and SE^W winds, light, fine at first, unsettled later, possibly thunder.
 Same as N^o 5.
 Light breezes, chiefly N^W, rainy at first, but improving temporarily later.

DISTRICTS.

FORECASTS.

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

NE^W is variable breezes, fine to cloudy and unsettled.
 Light breezes, chiefly NW^W, fair to showery.
 Same as N^o 6 and 7.
 Same as N^o 8.

WARNINGS

NONE ISSUED.

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

YESTERDAY'S 2 P.M. REPORTS.

	Bar.	Dry.	Wet.	Wind.	Wea.	Sea.		Bar.	Dry.	Wet.	Wind.	Wea.	Sea.
Skudesnaes ...	29.72	53	50	WNW 6	0	3	Holyhead ...	29.72	55	51	NNE 2	C	2
Sumburgh Head							Valencia ...						
Stornoway ...	29.75	59	55	SW 2	0	2	Scilly ...						
Aberdeen ...							Jersey ...	29.68	64	60	WNW 3	bc	3
Shields ...							Dungeness ...	29.63	66	60	ENE 3	bc	2
Ardrossan ...							London ...						
Malin Head ...	29.74	58	53	E 2	bc	1	Yarmouth ...						
Mullaghmore ...							Rochefort ...	29.70	68	64	NW 2	C	2
Balmullet ...	29.72	53	54	SSE 2	C	*							

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

The reports for yesterday morning showed that pressure ranged from between 29.8 ins. and 30.2 ins. in a large high-pressure area which lay over Russia and the Baltic, and that it exceeded 29.7 ins. over Scotland, the north of England, and off our southwestern coasts. Over western Germany, France and the Mediterranean, however, lay a large irregularly formed low-pressure area, the southern portion of which stretched as far south as Tunis. The wind was light everywhere - E^{ly} to SE^{ly} over Russia, Germany and the Baltic, SW^{ly} over the northern part of Scandinavia, NE^{ly} and variable in our Islands, and very variable over Southern Europe and the Mediterranean. In Algeria it was W^{ly} and SW^{ly}. The weather was very fine over northern, eastern and central Europe, unsettled elsewhere, with rain in several parts of England and at some of the Mediterranean stations, thunderstorms had occurred in many parts. Temperature was giving way over England, and was low in Spain and the south of France, over eastern Europe it was high, and inclined to rise. The morning readings varied from less than 50° in the extreme northwest, and at Madrid, and from very little above 50° at Bilbao and Toulon to nearly 70° over the southern half of Russia, and to upwards of 70° at some of the Mediterranean stations. The highest individual values were 72° at Cagliari, 71° at Florence and Spoo (Tunis), 40° at Constantinople, 68° at La Caille, Brindisi and in the Baltic Provinces, 67° at Moscow, Kharkov, Kiev and Nicolaieff, 66° at Rome, Paris and Suresmunde and 65° at Brussels, the lowest were 48° at Bodo and at Madrid, 44° at Christiansund, Skudesnaes and Sumburgh Head, 53° at Corunna and Bilbao and 52° at C. Sicia.

Thunderstorms and heavy rain occurred in many parts of England and France later. In London 0.9 in. of rain fell in one hour between midnight and 1 a.m.

SUMMARY OF CHANCES IN THE WEATHER OVER THE BRITISH ISLANDS AND THEIR NEIGHBOURHOOD FROM THE 19th TO THE 25th MAY 1889.

The weather over the United Kingdom, though showery and unsettled in the south at first, soon began to improve, and, as a band of high pressure spread over us, the showers ceased (except at one or two western stations) while fog became very general, and at times thick. Temperature did not increase much, while these foggy conditions lasted, though the air was "muggy". On Tuesday (22nd) however, the sky became clearer in the north, and temperature rose, so that over central Ireland and our northern districts the daily maxima ranged between 70° and 76°. On Wednesday the warmth spread southwards and for three days maxima of 80° and more were recorded inland over England. The appearance of the sky, however, was not at all settled, and on Thursday rain and thunderstorms began to spread over several northeastern and eastern districts, and rain fell in Ireland and the Hebrides also. On Friday the disturbed weather became still more general, NW^{ly} winds appeared in the west, and in that region the thermometer fell fast, but it was not until Saturday that temperature gave way entirely over England, although the rainfall and thunder were very generally felt in other places. At the close of the week the fine weather had completely disappeared from England, and heavy falls of rain were becoming prevalent in the southeast.

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 28TH MAY 1889.
 Issued by the Meteorological Office, 63 Victoria Street, London. R. H. SCOTT, Secretary.

STATIONS.	+ YESTERDAY EVENING.						8 A.M. TO DAY.										PAST 24 HOURS.		
	Barometer at 32° F. and Sea Level.	Temp. in Shade.	WIND.		Weather.	Reading at 32° F. and Sea Level.	Difference from 8 a.m. yesterday.	SHADE TEMP.		Difference from 8 a.m. yesterday.	WIND.		Weather.	Sea. (0 to 9.)	SHADE TEMP.		Amount of Rainfall.		
			Dir.	Force. (0 to 12.)				Dry.	Wet.		Dir.	Force. (0 to 12.)			Max.	Min.			
SCANDINAVIA.																			
Haparanda ..	29.03	52	N	2	bc	29.09	+0.34	54	46	+1	E	4	bc	*	61	41	—		
Hernösand ...	29.93	54	N	0	bc	29.92	+0.06	58	47	-3	ENE	4	P	*	68	58	0.20		
Stockholm ...	29.80	58	NE	2	P	29.78	+0.01	57	56	-11	SE	2	P	*	72	54	0.28		
Wisby ...	29.76	58	ENE	4	bc	29.78	+0.03	62	58	0	SE	4	0	*	77	57	0.16		
Bodö ...	29.99	44	NE	4	bc	29.86	-0.05	54	46	+12	ENE	6	C	3	—	—	—		
Christiansund...	29.73	53	ENE	2	bc	29.76	-0.13	53	53	+5	WNW	1	P	1	53	50	0.04		
Skudesnaes ...	29.76	53	NW	4	C	29.75	0.00	58	54	+1	ENE	1	C	2	58	45	—		
Christiania Fjord (Færder)	29.76	68	N	0	bc	29.80	+0.06	63	59	+3	ENE	2	bc	1	70	61	—		
Skagen (The Scaw)	29.68	62	N	1	bc	29.76	+0.09	62	59	0	ENE	1	bc	1	72	57	—		
Fanö ...	29.72	60	NW	2	bc	29.72	+0.01	69	64	0	E	2	bc	*	73	59	—		
BRITISH ISLANDS.																			
Sumburgh Head	29.78	49	SE	1	bc	29.68	-0.17	48	46	-2	E	2	0	2	56	42	—		
Stornoway ...	29.68	60	S	4	bc	29.58	-0.26	53	52	-2	S	3	0	3	62	45	—		
Wick ...	29.74	54	SE	2	bc	29.60	-0.22	52	50	-1	SE	2	cp	3	58	47	0.02		
Nairn ...	29.66	58	ENE	2	C	29.53	-0.26	52	50	0	E	1	C	0	58	48	0.05		
Aberdeen...	29.79	50	SE	2	bc	29.61	-0.25	49	48	-3	E	2	odm	3	53	48	0.01		
Leith ...	29.74	53	E	2	0	29.58	-0.26	50	49	-2	ENE	2	P	*	60	47	0.19		
Shields ...	29.76	51	NE	1	0	29.52	-0.31	50	50	-1	ENE	3	og	2	53	48	0.42		
Spurn Head ...	29.70	49	NE	5	P	29.60	-0.17	53	50	+3	SW	3	0	3	53	48	0.66		
York ...	29.73	52	ENE	1	0	29.53	-0.22	51	51	-1	SW	1	0	*	54	48	0.13		
Loughborough	29.74	51	NE	2	T	29.62	-0.16	54	53	+4	SE	2	C	*	54	49	0.38		
Ardrossan ...	29.69	60	SW	1	bc	29.51	-0.31	52	50	-3	NE	2	om	1	63	49	0.03		
Malin Head ...	29.64	61	S	2	om	29.44	-0.35	58	57	+2	SE	4	omg	2	61	50	—		
Mullaghmore ...	29.65	60	WNW	2	C	29.43	-0.38	53	53	-2	ENE	4	omg	2	66	53	0.18		
Belmullet ...	29.66	56	SW	4	0	29.43	-0.38	54	52	-1	W	2	0	*	61	53	0.44		
Donaghadee ...	29.72	57	S	2	bc	29.51	-0.33	52	51	-1	SE	3	C	1	60	51	—		
Barrow-in-Furness	29.73	54	SE	2	P	29.53	-0.25	50	50	-1	SE	4	0	*	60	49	0.12		
Liverpool (Bidston)	29.74	52	E	1	0	29.57	-0.24	52	51	0	SE	1	P	2	56	49	0.02		
Holyhead ...	29.72	53	NE	2	omg	29.54	-0.27	52	51	-4	S	3	omg	3	59	50	0.01		
Parsonstown ...	29.69	66	N	0	bc	29.49	-0.37	53	54	+4	2	0	P	*	63	51	0.15		
Valencia ...	29.74	53	SW	2	om	29.54	-0.31	53	51	-2	WNW	3	bc	4	61	50	0.25		
Roche's Point...	29.73	58	SW	3	bc	29.50	-0.31	56	54	-1	W	4	C	3	62	51	0.25		
Pembroke ...	29.72	52	WNW	1	C	29.56	-0.20	52	52	0	S	5	omg	3	54	49	0.08		
Scilly ...	29.77	57	W	3	C	29.60	-0.18	53	53	-1	SW	5	P	5	59	53	0.20		
Prawle Point ...	29.74	54	W	3	0	29.68	-0.07	52	52	-1	SW	5	pg	3	56	48	0.02		
Jersey ...	29.76	57	W	3	bc	29.78	+0.05	53	53	0	SW	4	omg	3	66	51	0.01		
Hurst Castle ...	29.72	53	WNW	4	C	29.70	0.00	53	54	+1	WNW	5	C	2	59	52	—		
Dungeness ...	29.69	53	WNW	2	P	29.72	+0.04	54	52	+1	SW	5	0	4	61	51	0.39		
London ...	29.69	56	WNW	1	og	29.68	-0.03	54	51	+1	SW	2	0	*	57	50	0.50		
Oxford ...	29.70	53	NE	1	0	29.66	-0.08	54	51	+4	SW	3	bc	*	53	50	0.10		
Cambridge ...	29.70	54	N	1	0	29.65	-0.08	57	?	+5	SW	1	C	*	57	51	0.50		
Yarmouth ...	29.67	54	NNE	3	bc	29.63	-0.06	54	53	+1	SW	3	C	3	56	51	0.40		
Cuxhaven ...	29.70	68	N	1	bc	29.76	+0.07	69	67	+1	S	2	bc	*	70	67	—		
Berlin ...	29.71	70	WNW	3	bc	29.74	+0.08	68	61	+3	ENE	3	bc	*	81	61	—		
Wiesbaden ...	*	*	*	*	*	29.74	+0.08	65	61	-1	E	1	bc	*	77	53	—		
Manich ...	29.75	60	SW	3	P	29.80	+0.13	61	58	-2	SW	5	0	*	73	53	0.12		
FRANCE & NETHERLANDS.																			
The Helder ...	29.69	63	ENE	1	bc	29.68	-0.01	53	56	-2	SW	2	bc	2	72	57	—		
Brussels ...	?	*	*	*	*	29.78	+0.07	56	52	-2	WNW	3	bc	*	80	53	0.04		
Cape Gris Nez...	?	53	SW	2	0	?	?	53	51	+2	WNW	4	C	4	57	50	0.35		
Paris ...	29.74	61	NW	2	0	29.84	+0.18	53	53	-6	S	2	0	*	74	49	—		
Brest ...	?	59	W	3	bc	?	?	56	53	+2	SW	4	P	3	61	45	0.08		
Lorient ...	29.81	58	W	4	bc	29.82	+0.03	53	51	+4	WNW	4	0	4	61	50	—		
Rocheport ...	29.89	61	?	5	bc	29.93	+0.15	58	53	-1	W	4	0	2	64	52	—		
Belfort ...	29.71	64	SW	1	P	29.82	+0.15	63	59	-2	SW	1	0	*	78	53	0.04		
Lyons ...	29.74	61	W	1	P	29.89	+0.22	52	51	-9	WNW	3	P	*	75	52	0.67		
Nice ...	29.78	61	SW	1	C	29.84	+0.15	61	60	+2	N	0	C	3	68	53	—		
Perpignan ...	29.82	62	WNW	3	P	29.91	+0.20	60	56	-3	NW	2	0	*	70	53	0.04		
Biarritz ...	29.95	60	NW	3	bc	29.99	+0.17	56	52	-2	WNW	3	0	2	63	54	—		
PENIN- SULA.																			
Corunna ...	*	*	*	*	*	?	?	?	?	?	?	?	?	?	?	?	?		
Lisbon ...	29.97	57	NW	5	bc	30.08	+0.18	58	53	+1	WNW	5	bc	4	66	54	—		

WEATHER CHARTS

For 8 a.m. on

Tuesday 28th MAY

1889

BAROMETER, WIND & SEA.

(Explanation of Map)

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

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

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

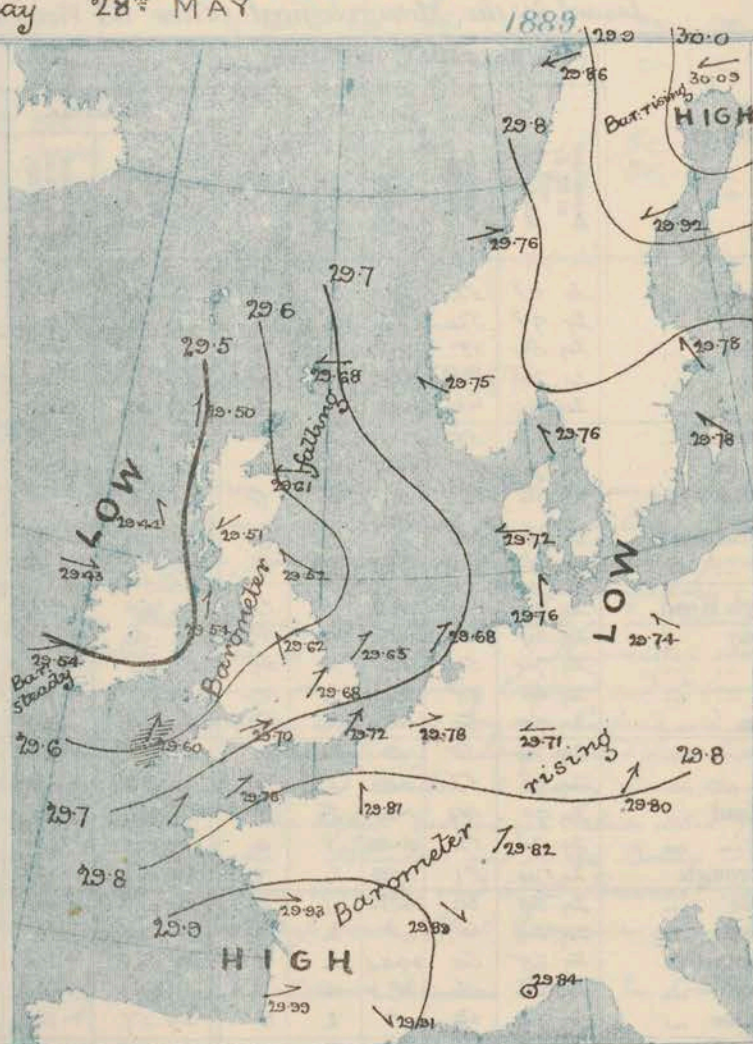
Sea Disturbance — where considerable is shown thus:
■ = Rough. ■ = High.

MEAN HEIGHT of the BAROMETER

at 8 a.m. for the month of 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
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.

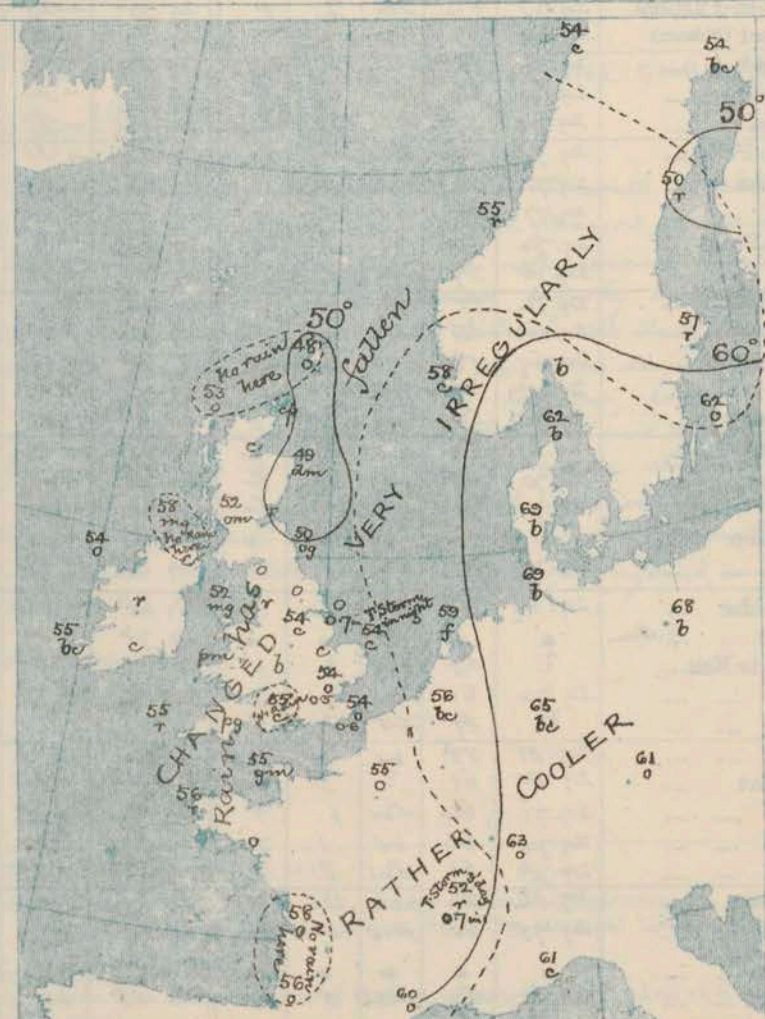
Rainfall — A dotted line separates the districts in which rain has fallen from those where there has been none. Falls of 0.5 in. or more, are quoted in figures.

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	39.0	45.9	43.9	1.71
Stornoway	52.9	40.7	46.4	46.0	2.64
Wick	58.7	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	55.0	43.1	50.3	47.8	1.88
Liverpool	57.5	44.7	50.6	46.8	1.74
Parsonstown	59.3	43.3	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	43.2	52.7	50.3	1.66
Jersey	53.3	47.1	53.5	50.4	1.74
Hurst Castle	58.3	45.3	51.3	49.7	1.70
Dover	56.8	46.3	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 30.5 in. and upwards, in the north of Sweden, and also over the Iberian Peninsula, the Baltic, the north of Sweden.
Lowest 29.5 in. and less, in a depression lying over our western coasts; somewhat low, 29.8 in. and less, over Denmark, Germany.
Gradients moderate over the Channel and the Bay of Biscay, but slight elsewhere.
Barometer falling in our Islands and the west of Norway, but rising in most other localities.

TEMPERATURE

Highest 64° at Faro and Loughaven, 68° at Berlin, 68° at Wiesbaden, 63° at Goerdel and Belfort, and 62° at Wisby and Skagen.
Lowest 48° at Lumburgh Head, 49° at Aberdeen, 50° at Herraissand, Leith, Shields and Barrow-in-Furness, and 51° at York, England.
The maxima registered yesterday were below 60° over the Midland and eastern, and below 55° over the northern counties of England.

WIND

Moderate or fresh from the S.W. ^{and} over the south of England, moderate from W. in the west of France; light from N.W. in the south of France.
Light from the S.E. ^{and} in E. ^{and} over the northern parts of our Islands, and also on the eastern shores of the North Sea.
Moderate to strong from E. in the north of Scandinavia.

WEATHER

Fine in Denmark and Germany, and fair in the southeast of England and the south of Ireland.
Dull elsewhere with rain at many of our western and northern stations, as well as in some parts of Scandinavia and France.
Heavy rain fell yesterday in the east and southeast of England, and thunderstorms occurred at Harrogate and Lyons.

SEA

Rather rough at Scilly, but moderate to smooth elsewhere.

PROBABLE CHANGES IN SYSTEM NOW PREVALENT

The depression in the west is apparently moving northeasterwards, but is at the same time spreading out in a southeasterly direction. Showery weather is probable in most districts, but with some fine intervals in the south and southeast.

FORECASTS

for the 24 hours ending at NOON on

MAY 29TH

1889.

DISTRICTS.

FORECASTS.

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

SE^{ly} winds, moderate; unsettled, some rain.
S^{ly} winds, light; dull, some rain.
SW^{ly} winds, moderate, changeable some showers.

DISTRICTS.



FORECASTS.

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

Same as N^o 0. and 1.
SW^{ly} winds, fresh or strong; squally, showery.
SE^{ly} to SW^{ly} or W^{ly} winds, moderate; changeable, some rain.
W^{ly} and SW^{ly} winds, moderate; changeable, some showers.

WARNINGS

None Issued.

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

YESTERDAY'S 2 P.M. REPORTS.

	Bar.	Dry.	Wet.	Wind.	Waa.	Sea.		Bar.	Dry.	Wet.	Wind.	Waa.	Sea.
Skudesnaes ...	29.77	58	53	NW 4	c	3	Holyhead ...	29.77	57	52	NNE 3	c	2
Sumburgh Head ...	29.83	50	46	ESE 1	b	1	Valencia ...	29.80	60	55	SW 3	bcv	3
Stornoway ...	29.73	62	59	S 4	b	3	Scilly ...	29.80	58	53	NW 4	c	4
Aberdeen ...	29.83	54	49	SE 3	b	2	Jersey ...	29.77	60	54	WNW 3	bc	3
Shields ...	29.82	51	48	NE 2	o	3	Dungeness ...	29.69	54	54	WSW 3	r	0
Ardrossan ...	29.74	63	53	SW 1	b	1	London ...	29.70	56	54	ESE 2	od	*
Malin Head ...	29.73	57	56	ESE 2	b-m	2	Yarmouth ...	29.71	54	53	Z 0	f	3
Mullaghmore ...	29.70	62	56	NNW 2	bc	2	Rocheport ...	29.86	63	58	WNW 5	bc	3
Belmullet ...	29.75	60	57	WSW 2	bc	*							

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

Yesterday morning's reports showed a continuation of the high pressure system noticed over Russia on the past few days, of a second system over the Atlantic, to the westward of Spain, and of the irregularly formed low-pressure system over France, Germany, Denmark and the southeast of the British Islands. There was also a small disturbance over Spain. The wind was still S^W over Austria, Germany, Russia and the Baltic, N^W over England and the west of France, variable elsewhere, and very light generally. The weather was very rainy over England, with thunder in the southeast, dull over France, Spain the greater part of the Mediterranean and Austria, with rain in some localities; it was fine, however, in Italy, Germany, Russia and the south of Sweden, as well as in Scotland and Ireland. Temperature had fallen again in the west and north of France, and at several of the more northern stations, risen over Russia, where the readings were higher than in any other part of Europe. In the British Islands it varied from 50° to 54°. The highest morning values were 72° at Marmel, 70° at Riga and also at Brindisi and Constantinople, 69° at Moscow, Fano, Rome and La Halle, 68° at Stockholm, Cuxhaven, Trieste and Lesina, 64° at Malta, Spa, 66° at Wiesbaden, 65° at Belfort, and 61° at Paris; the lowest were 42° at Bodo, 50° at Christiansund, Sumburgh Head, Spurn Head and Ayr, 51° at Shields, 53° in London and at Prawl Point, and 56° at Scilly, Corunna, San Fernando and Honnau.

Later in the day the rainfall (which was heavy in places) ceased over England, and was succeeded by local fog, and this was followed by unsettled, rainy weather in the west and north.

EXPLANATION OF COLUMNS GIVEN ON PAGE 1.

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

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

† The evening observations are taken at 6 p.m. in France and our Islands with the exception of Oxford, where they are taken at 8 p.m. In Sweden and Denmark, the observations are taken at 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 29th May. 1889.

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

STATIONS.	† YESTERDAY EVENING.					8 A.M. TO DAY.										PAST 24 HOURS.		
	Barometer at 32° F. and Sea Level.	Temp. in Shade.	WIND.			BAROMETER.		SHADE TEMP.			WIND.			Sea. (0 to 9.)	SHADE TEMP.		A.M. at 8.	Rainfall.
			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.		Max.	Min.		
SCANDINAVIA.	Haparanda ..	29.95	52	E	2	0	29.84	-1.25	49	48	-5	NW	4	0	*	62	41	0.20
	Hernösand ...	29.87	54	E	0	0	29.91	-0.01	60	56	+10	E	0	0	*	62	48	0.04
	Stockholm ...	29.87	57	E	0	0	29.93	+0.15	56	54	-1	E	0	0	*	64	52	0.12
	Wishby ...	29.88	58	ESE	4	0	29.89	+0.11	60	57	-2	NNE	4	0	*	64	53	—
	Bodö ...	29.87	61	E	2	0	29.88	+0.02	62	52	+8	E	2	0	1	64	54	—
	Christiansund...	29.75	62	ESE	4	0	29.76	0.00	63	59	+8	ESE	4	0	2	63	53	—
	Skudesnaes ...	29.70	63	SE	1	0	29.76	+0.01	59	57	+1	S	1	0	3	66	53	—
	Christiania Fjord (Færdar)	29.81	67	WNW	1	0	29.86	+0.06	65	60	+2	E	2	0	2	72	63	—
	Skagen (The Scaw)	29.75	68	ESE	1	0	29.79	+0.02	66	63	+4	SE	1	0	1	75	61	—
	Fanö ...	29.77	59	W	3	0	29.79	+0.07	60	57	-9	E	0	0	*	75	54	—
BRITISH ISLANDS.	Sumburgh Head	29.52	51	E	2	0	29.59	-0.09	49	49	+1	SE	2	0	5	54	48	0.04
	Stornoway ..	29.52	50	E	0	0	29.42	-0.08	51	51	-2	E	0	0	2	54	46	0.78
	Wick ...	29.40	53	SE	3	0	29.48	-0.12	50	50	-2	SE	3	0	3	53	48	0.10
	Nairn ...	29.37	54	E	0	0	29.43	-0.12	56	54	+4	E	1	0	1	58	49	0.03
	Aberdeen...	29.48	53	SE	4	0	29.51	-0.10	51	50	+2	SE	2	0	4	53	48	0.26
	Leith ...	29.47	53	SW	1	0	29.46	-0.12	53	51	+5	SW	1	0	*	58	48	0.34
	Shields ...	29.52	58	SW	3	0	29.53	+0.01	56	52	+6	SW	3	0	2	60	48	0.04
	Spurn Head ...	29.61	57	SW	5	0	29.62	+0.02	56	52	+3	SW	4	0	3	62	51	0.04
	York ...	29.54	60	S	3	0	29.56	+0.01	53	51	+2	S	3	0	*	65	48	0.05
	Loughborough	29.61	57	S	4	0	29.63	+0.01	53	52	+1	SW	4	0	*	63	47	0.02
GERMANY.	Ardrossan ...	29.42	54	S	1	0	29.45	-0.06	53	53	+3	S	3	0	2	58	50	0.29
	Malin Head ...	29.38	53	W	2	0	29.38	-0.06	51	50	-7	S	4	0	2	58	48	0.19
	Mullaghmore ...	29.39	57	WNW	1	0	29.37	-0.06	53	49	-2	SW	4	0	3	58	48	0.17
	Belmullet ...	29.40	54	WNW	2	0	29.35	-0.08	51	50	-3	SW	3	0	*	57	49	0.44
	Donaghadee ...	29.41	57	WNW	4	0	29.45	-0.06	54	53	+2	SW	3	0	1	58	50	0.14
	Barrow-in-Furness	29.49	56	S	4	0	29.51	-0.04	52	51	+2	SE	5	0	*	57	50	0.28
	Liverpool (Bidston)	29.51	58	SE	2	0	29.53	-0.02	53	50	+1	S	1	0	3	60	47	0.07
	Holyhead ...	29.49	53	SW	4	0	29.52	-0.02	52	50	0	SW	4	0	4	56	50	0.05
	Parsonstown ...	29.46	56	WNW	1	0	29.47	0.00	52	49	-3	SW	2	0	*	61	45	0.07
	Valencia ...	29.52	53	SW	4	0	29.47	-0.07	52	49	-3	SW	5	0	5	58	47	0.35
FRANCE & NETHERLANDS.	Roche's Point...	29.52	58	WNW	4	0	29.53	+0.03	53	50	-3	WNW	4	0	4	60	48	0.06
	Pembroke ...	29.57	54	SW	5	0	29.59	+0.02	49	47	-3	SW	5	0	4	54	48	0.08
	Seilly ...	29.63	53	WNW	5	0	29.68	+0.08	53	50	0	WNW	6	0	6	58	49	0.11
	Prawle Point ...	29.65	52	SW	4	0	29.70	+0.02	52	50	0	WNW	5	0	4	53	47	0.05
	Jersey ...	29.72	56	W	4	0	29.81	+0.03	57	53	+2	SW	5	0	4	59	52	0.11
	Hurst Castle ...	29.66	54	WNW	6	0	29.72	+0.02	53	54	0	SW	7	0	4	58	52	0.11
	Dungeness ...	29.70	56	SW	4	0	29.74	+0.02	54	52	0	SW	5	0	4	62	51	0.13
	London ...	29.69	58	S	2	0	29.70	+0.02	54	52	0	SW	2	0	*	63	49	0.08
	Oxford ...	29.63	54	S	2	0	29.66	0.00	54	51	0	SW	2	0	*	60	47	0.11
	Cambridge ...	29.67	56	S	2	0	29.67	+0.02	56	53	-1	S	2	0	*	64	49	0.06
PENINSULA.	Yarmouth ...	29.68	57	SW	4	0	29.70	+0.02	57	54	+3	SW	4	0	3	64	51	0.04
	Cuxhaven ...	29.76	60	WNW	2	0	29.80	+0.04	60	57	-9	N	1	0	*	69	58	—
	Berlin ...	29.70	74	E	2	0	29.76	+0.02	67	61	-1	NW	3	0	*	81	64	0.04
	Wiesbaden ...	*	*	*	*	*	29.91	+0.17	62	56	-3	SW	3	0	*	70	53	—
	Munich ...	29.86	60	NW	2	0	29.97	+0.17	57	53	-4	NW	5	0	*	70	53	0.16
	The Helder ...	29.77	57	SW	2	0	29.75	+0.07	57	57	0	SW	3	0	2	63	48	—
	Brussels ...	*	*	*	*	*	29.80	+0.03	58	53	+2	WNW	3	0	*	69	51	—
	Cape Gris Nez...	*	*	*	*	*	29.90	+0.06	57	53	+2	SW	3	0	*	67	53	—
	Paris ...	29.84	59	SW	2	0	29.90	+0.06	57	53	+2	SW	3	0	*	67	53	—
	Brest ...	29.84	54	SW	5	0	29.90	+0.06	57	53	+2	SW	3	0	*	67	53	—

WEATHER CHARTS

for 8 a.m. on

Wednesday 29th MAY

1889.

BAROMETER, WIND & SEA.

(Explanation of Map)

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

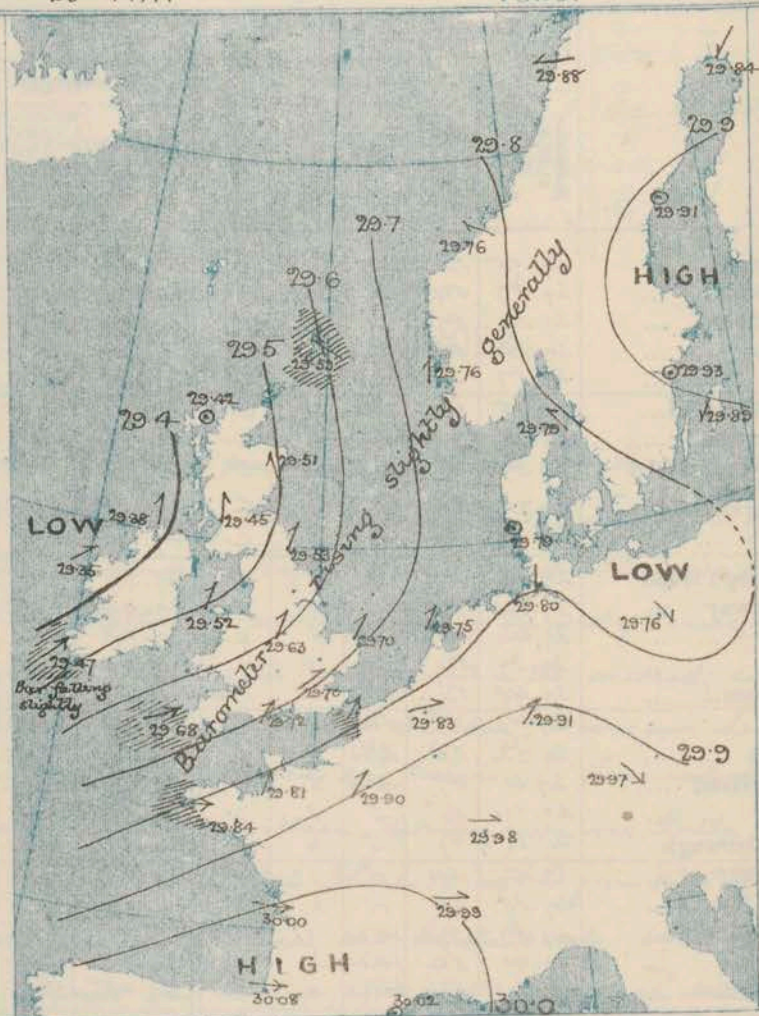
Sea Disturbance — where considerable is shown thus.

— Rough. — High.

MEAN HEIGHT of the BAROMETER

at 8 a.m. for the month of 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	29.999
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.

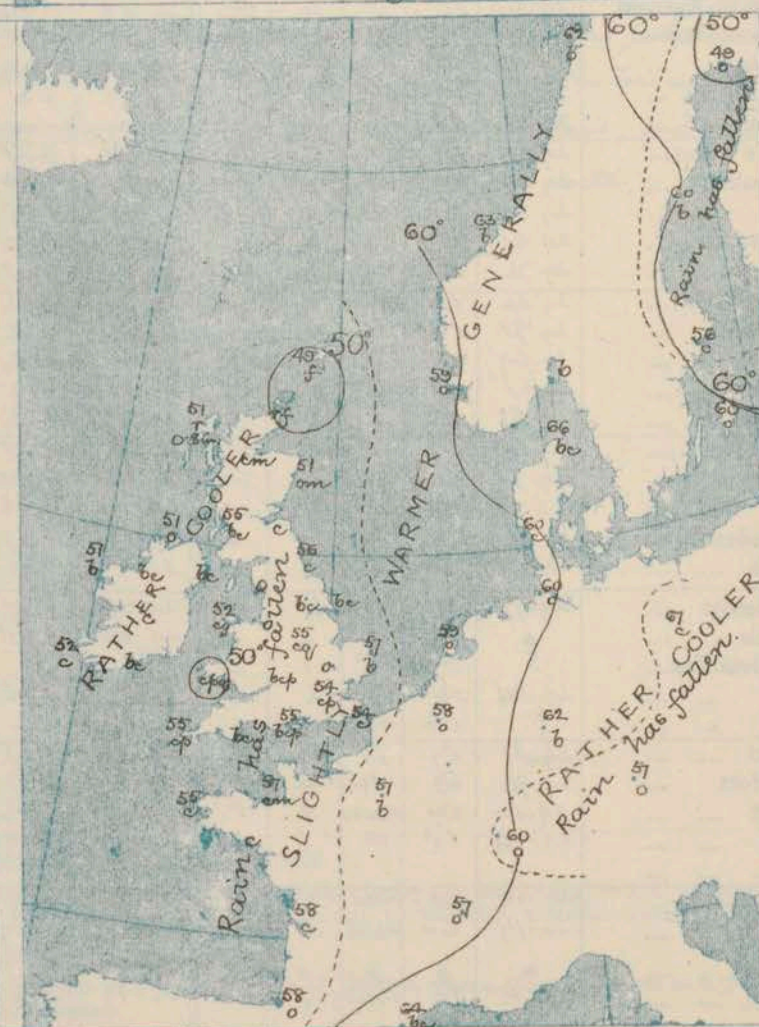
MEANS OF TEMPERATURE IN SHADE.

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	57.6	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
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Scilly	56.3	43.2	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 the Iberian Peninsula, 29.9 ins. and upwards in Sweden. Lowest 29.4 ins. and less, in a depression lying to the westward of our Islands; a shallow trough of low pressure exists over northern Germany and the southern part of the Baltic. Gradients moderate over Ireland, England and France, but slight elsewhere. Barometer rising all but the Irish stations.
TEMPERATURE	Highest 64° at Berlin, 66° at Hagen, 68° at Faerder, 64° at Perpignan, 63° at Christiansund, and 62° at Bodo. Lowest 49° at Haparanda and Lumburgh Head, 50° at Harnissund and Ulick, and 51° at Stormoway, Aberdeen & Malin H. The maxima registered over our Islands yesterday were higher than those on Monday, but the thermometer nowhere exceeded 65°.
WIND	Fresh from the SW ^W over the south of our Islands, and from the W ^W over the Bay of Biscay. Light from S. or S.E. on our northern coast, and from E. over the greater part of Norway. Light or moderate from NW in Germany, and also at Lisbon.
WEATHER	Fine in Ireland, and also in Scandinavia and Denmark. Cloudy elsewhere, with showers in many parts of Great Britain. Rain fell yesterday over the entire Kingdom, the largest amounts being 0.8 ins. at Stormoway and 0.4 ins. at Belmullet and Valencia.
SEA	Rough at Scilly, and rather rough on our southwest coast generally, as well as at Lumburgh Head, but moderate to smooth elsewhere.

PROBABLE CHANGES IN SYSTEM NOW PREVALENT

There are at present no indications of any decided change in the weather. Shallow disturbances, subsidiary to the low pressure system in the west, — will probably continue to pass across the Kingdom, occasioning showers in most districts, and thunder at some of the English stations.

FORECASTS

for the 24 hours ending at NOON on 30TH MAY 1889.

DISTRICTS.		FORECASTS.	
0	{ SCOTLAND NORTH	}	Same as N ^o . 0. and 1.
1	{ SCOTLAND EAST		
2	{ ENGLAND N. E.	}	SW ^{ly} winds, fresh or strong; changeable, some showers.
3	{ ENGLAND EAST		
4	{ MIDLAND COUNTIES	}	S ^{ly} and SW ^{ly} winds, moderate or fresh; changeable, some showers.
5	{ ENGLAND SOUTH		
		WARNINGS	
		None Issued.	

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

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

YESTERDAY'S 2 P.M. REPORTS.

	Bar.	Dry.	Wet.	Wind.	Wea.	Sea.		Bar.	Dry.	Wet.	Wind.	Wea.	Sea.
Skudesnaes ...	29.73	66	59	X 0	bc	2	Holyhead ...	29.49	54	53	S 4	opg	3
Sumburgh Head ...	29.61	52	50	E 3	bc	4	Valencia ...	29.53	57	52	WSW 4	c m	4
Stornoway ...	29.44	52	52	SE 3	p	3	Scilly ...	29.64	58	53	W 5	c	5
Aberdeen ...	29.49	51	50	SE 2	om	4	Jersey ...	29.74	59	56	SE 4	og	3
Shields ...	29.52	57	54	SW 2	o	2	Dungeness ...	29.75	57	54	SW 5	bc	4
Ardrossan ...	29.44	53	51	S 1	om p	1	London ...	29.71	61	54	SW 4	c	*
Malin Head ...	29.37	52	52	WNW 2	o	2	Yarmouth ...	29.66	64	57	SW 4	bc	3
Mullaghmore ...	29.42	53	52	WNW 4	op	2	Rochefort ...	29.97	59	57	SW 5	p	2
Belmullet ...	29.43	57	54	WSW 3	bc	*							

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

The reports for yesterday morning showed a considerable modification of the distribution of pressure from that noticed on Monday. Reading remained highest, over Russia, but the low-pressure area noticed over Central Europe had moved somewhat to the northward, and the barometer had risen over southern Europe and the Mediterranean. In the meantime a new low-pressure system was spreading over the United Kingdom from the westward. Thus while SE^{ly} (S to E) winds were still prevalent over Russia, Germany, the Baltic, Scandinavia and the north of our Islands, the wind had shifted to the SWnd or Wnd over the Bay of Biscay, France and the southern parts of our Islands, while it was very variable over Spain and the Mediterranean. The weather was cloudy and showery except over Spain on the one hand, and Germany and Russia on the other, in all of which regions the sky was clear. The showers had been heavy in several places, and thunder and lightning had prevailed over Switzerland and the southern parts of Germany and France. Temperature continued high over eastern and central Europe, and the eastern parts of the Mediterranean, low in the west and north. The highest morning readings were 72° at Cagliari, 71° at Riga, 70° at Brindisi, 69° at Moscow, Copenhaven and Tams, 68° at Kiev, St. Petersburg, Berlin and Trieste, 67° at Malta, Palermo, Lening and Memel, 66° at Kharkov, La Calle (Algeria), and 65° at Wiesbaden; the lowest were 44° at Archangel, 48° at Sumburgh Head, 49° at Aberdeen, 50° at Helsingfors, Leith, Shields and Barrow in Farness, 51° at Oxford and in London, and 52° at Paris.

Later on showers fell very generally over Western Europe, and at some of the northwestern stations the fall was considerable.

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. dow.

* 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 30th May. 1889.
 Issued by the Meteorological Office 63 Victoria Street, London. R. H. SCOTT, Secretary.

STATIONS.	+ YESTERDAY EVENING.						8 A.M. TO DAY.										PAST 24 HOURS.		
	Barometer at 32° F. and Sea Level.	Temp. in Shade.	WIND.		Weather.	Barometer. Reading at 32° F. and Sea Level.	Difference from 8 a.m. yesterday.	SHADE TEMP.			WIND.		Weather.	Sea. (0 to 9.)	SHADE TEMP.		Amount of Rainfall.		
			Dir.	Force (0 to 12.)				Dry.	Wet.	Difference from 8 a.m. yesterday.	Dir.	Force (0 to 12.)			Max.	Min.			
SCANDINAVIA.																			
Haparanda ..	30.03	47	Z	0	o	30.12	+ .28	55	53	+ 6	Z	0	b	*		55	45	—	
Hernösand ...	29.97	49	Z	0	f	30.03	+ .12	51	50	— 9	ENE	2	o	*		64	48	—	
Stockholm ...	29.93	59	NW	4	o	29.86	— .07	59	56	+ 3	NE	2	o	*		61	52	0.16	
Wisby ...	29.87	59	ESE	4	bc	29.86	— .03	58	55	— 2	W	4	c	*		75	52	0.04	
Bodö ...	29.94	56	Z	0	b	29.94	+ .06	66	52	+ 14	E	2	b	2		52	—	—	
Christiansund...	29.74	69	NE	2	bc	29.74	— .02	57	54	— 6	W	2	o	2		73	54	—	
Skudesnaes ...	29.78	55	ENE	4	o	29.80	+ .04	57	53	— 2	SSE	6	c	4		59	54	0.24	
Christiania Fjord (Farder)	29.85	61	ESE	4	r	29.84	— .02	63	58	— 2	SW	3	b	2		66	59	0.35	
Skagen (The Seaw)	29.79	60	S	1	c	29.82	+ .03	61	59	— 5	SSW	1	bc	0		66	54	0.04	
Fanö ...	29.84	57	W	1	c	29.85	+ .06	57	56	— 3	SSE	4	c	*		66	52	0.12	
BRITISH ISLANDS.																			
Samburgh Head	29.60	51	SE	4	o	29.58	— .01	57	50	+ 2	SE	3	o	4		52	48	—	
Stornoway ...	29.43	55	SW	3	bc	29.49	+ .07	54	53	+ 3	SE	3	bc	2		57	45	0.02	
Wick ...	29.50	52	S	3	c	29.51	+ .03	53	51	+ 3	S	3	c	3		56	48	0.05	
Nairn ...	29.44	59	SSW	2	c	29.50	+ .07	55	51	— 1	Z	0	b	1		62	43	0.04	
Aberdeen...	29.52	52	SE	4	cp	29.59	+ .08	53	48	+ 2	S	3	bc	3		58	47	—	
Leith ...	29.48	58	SW	2	bc	29.57	+ .11	55	50	— 0	SW	1	o	*		62	41	0.01	
Shields ...	29.53	56	SSW	3	c	29.63	+ .10	50	48	— 6	SSW	3	c	2		60	43	0.01	
Spurn Head ...	29.63	55	SSW	4	c	29.75	+ .13	56	57	— 0	SSW	6	c	4		60	47	0.12	
York ...	29.58	49	SSW	2	bc	29.68	+ .12	54	50	+ 1	WSW	3	b	*		62	45	0.12	
Loughborough	29.65	53	SSW	4	c	29.78	+ .15	54	50	— 1	SW	3	bc	*		61	46	0.26	
Ardrossan ...	29.47	56	SSW	3	b	29.55	+ .10	52	57	— 3	SSW	4	c	3		56	47	0.20	
Malin Head ...	29.41	49	ENE	1	o	29.49	+ .11	52	49	+ 1	SSW	4	cp	3		60	49	0.37	
Mullaghmore ...	29.40	52	SW	3	p	29.50	+ .13	50	47	— 3	S	5	cp	3		58	47	0.56	
Belmullet ...	29.40	55	WSW	4	c	29.46	+ .11	49	49	— 2	SSE	3	o	*		56	48	0.14	
Donaghadee ...	29.47	57	SW	4	b	29.49	+ .04	55	52	+ 1	SW	4	bc	2		61	50	0.11	
GERMANY.																			
Barrow-in-Furness	29.55	54	SW	4	b	29.63	+ .12	51	49	— 1	SW	5	bc	*		56	49	0.17	
Liverpool (Bilston)	29.58	53	SW	3	bc	29.70	+ .15	54	48	+ 1	SSW	2	bc	3		60	47	0.05	
Holyhead ...	29.56	52	SSW	4	b	29.65	+ .13	54	50	+ 2	SSW	5	cp	5		57	48	0.01	
Parsonstown ...	29.48	52	SW	1	r	29.55	+ .08	53	49	+ 1	Z	0	bc	*		59	42	0.61	
Valencia ...	29.56	53	WSW	4	op	29.46	— .01	53	50	+ 1	SE	5	c	5		56	49	0.23	
Roche's Point...	29.53	55	W	5	bc	29.54	+ .01	52	50	— 1	SSW	5	cp	4		56	48	0.20	
Pembroke ...	29.60	57	SSW	6	c	29.66	+ .07	57	50	+ 2	SSW	2	cp	6		54	48	0.05	
Seilly ...	29.70	54	WSW	6	c	29.68	— .02	56	52	+ 1	SW	6	cp	6		57	48	0.10	
Prawle Point ...	29.75	52	SW	6	b	29.87	+ .11	53	50	+ 1	S	6	c	5		55	47	0.03	
Jersey ...	29.85	54	WSW	5	bc	29.92	+ .11	55	51	— 2	SSW	5	bc	4		59	50	0.16	
Hurst Castle ...	29.78	52	SW	7	p	29.87	+ .15	54	52	— 1	SW	7	bc	4		58	51	0.02	
Dungeness ...	29.77	55	SW	5	c	29.90	+ .16	54	52	— 0	SW	6	c	5		62	57	—	
London ...	29.73	56	SSW	3	c	29.87	+ .17	56	50	+ 2	S	3	cp	*		62	46	0.04	
Oxford ...	29.74	50	SW	3	b	29.83	+ .17	53	49	— 1	SW	5	cp	*		59	47	0.30	
Cambridge ...	29.71	51	S	2	r	29.84	+ .17	55	52	— 1	S	2	b	*		60	44	0.18	
Yarmouth ...	29.70	58	WSW	2	c	29.84	+ .14	56	53	— 1	SW	4	b	3		59	46	0.16	
Cuxhaven ...	29.81	60	NNW	1	r	29.92	+ .12	59	57	— 1	W	3	bc	*		68	57	0.03	
Berlin ...	29.88	69	NNW	2	c	30.00	+ .24	68	61	+ 1	NNW	2	b	*		75	59	—	
Wiesbaden ...	*	*	*	*	*	30.06	+ .15	60	57	— 2	SW	3	o	*		70	54	—	
Munich ...	30.06	57	SW	1	o	30.13	+ .16	62	57	+ 5	W	3	bc	*		63	54	—	
FRANCE & NETHERLANDS.																			
The Helder ...	29.82	57	SSW	1	c	29.91	+ .16	55	51	— 4	SW	3	b	3		64	52	—	
Brussels ... 9am	*	*	*	*	*	30.01	+ .18	55	49	— 3	SSW	3	bc	*		69	45	0.12	
Cape Gris Nez...	?	54	SW	4	c	?	?	53	50	— 0	WSW	5	c	5		59	50	—	
Paris ...	29.91	60	ESE	2	o	30.05	+ .15	55	52	— 2	SSW	2	b	*		67	44	—	
Brest ...	?	57	W	5	b	?	?	53	57	— 2	SW	5	o	5		63	50	0.12	
Lorient ...	29.91	55	W	4	c	29.94	+ .10	53	49	— 2	SW	4	bc	4		57	50	0.16	
Rochefort ...	30.06	58	W	5	o	30.07	+ .07	56	55	— 2	SSW	5	o	2		64	50	0.12	
Belfort ...	29.97	67	W	1	b	30.13	+ .15	59	57	— 1	W	7	b	*		68	49	—	
Lyons ...	30.01	66	NNW	2	bc	30.08	+ .09	57	53	— 0	N	2	b	*		72	57	—	
Nice ...	29.91	68	NW	1	b	30.07	— .01	60	56	— 0	NE	1	c	0		70	55	—	
Perpignan ...	30.06	63	NNW	1	o	30.06	+ .04	64	59	— 0	W	2	b	*		71	53	—	
Biarritz ...	30.13	60	NNW	3	o	30.06	— .02	59	55	+ 1	SE	2	bc	4		68	54	—	
PENINSULA.																			
Corunna ... †	*	*	*	*	*	30.05	— .07	61	57	+ 6	SW	3	c	4		64	50	—	
Lisbon ...	30.14	59	NNW	4	b	30.08	— .09	58	55	— 1	N	4	b	2		66	52	—	

For Explanation of Columns, see p. 4.

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

WEATHER CHARTS

for 8 a.m. on

Thursday, 30th May,

1889

BAROMETER, WIND & SEA.

(Explanation of Map)

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

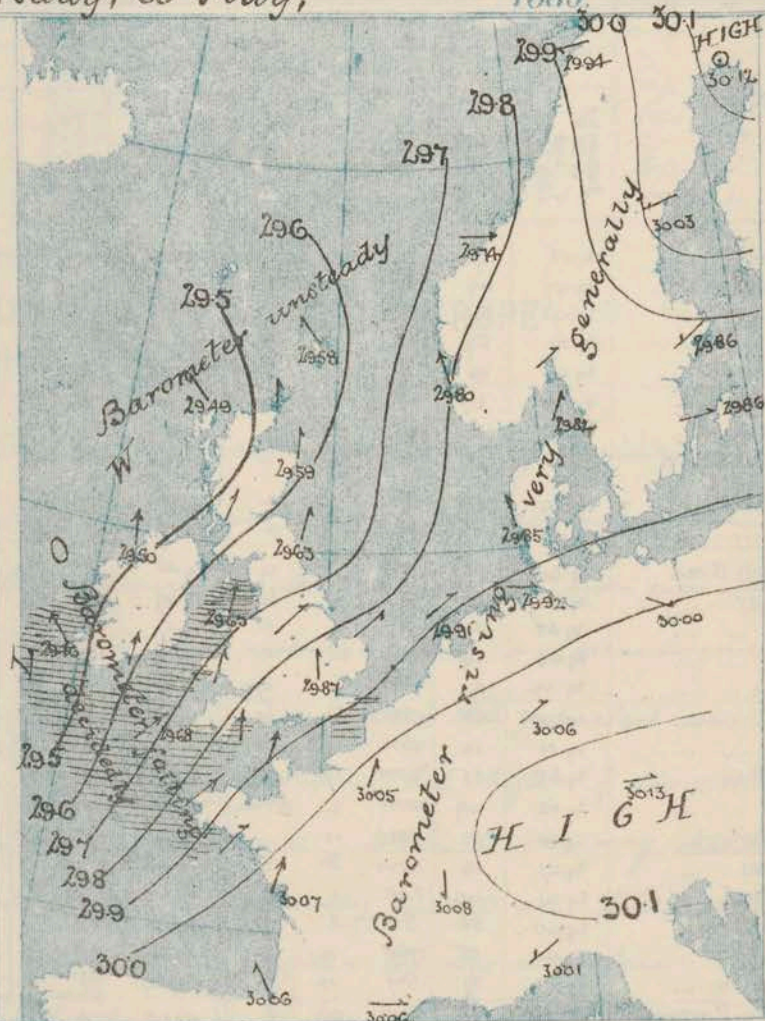
Sea Disturbance — where considerable, is shown thus.

— = Rough. — = High.

MEAN HEIGHT of the BAROMETER

at 8 a.m. for the month of 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.

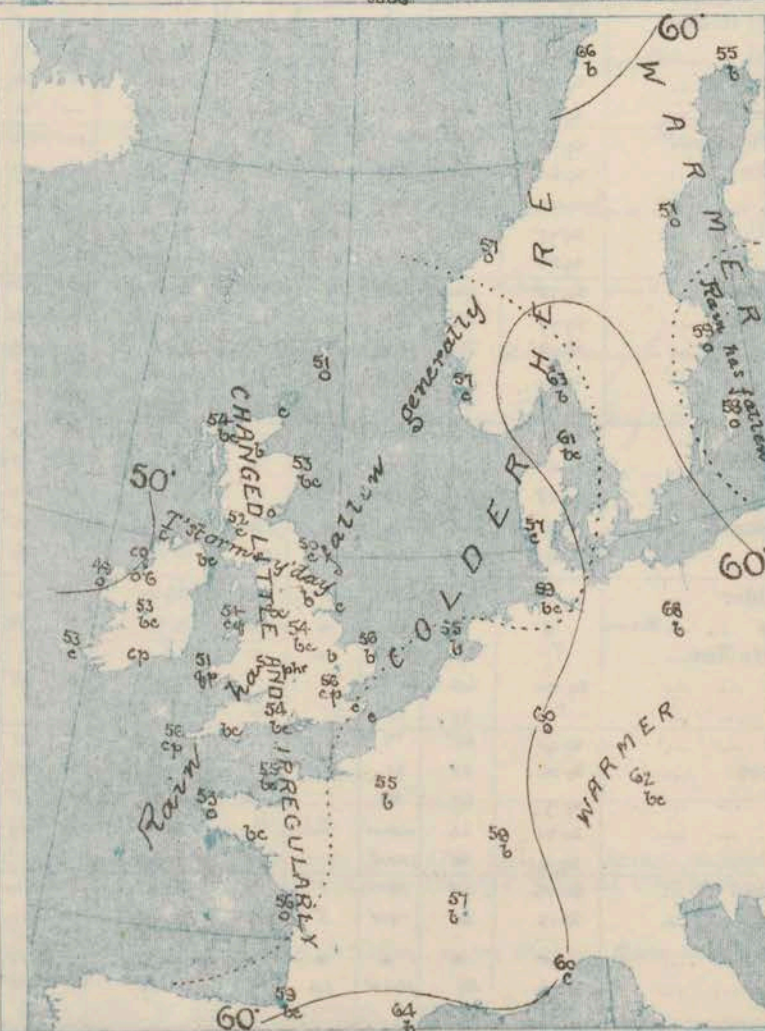
Temperature — Isotherms are drawn for each 10° Changes since previous morning are stated in words.
Weather — is shown by Letters of the Beaufort Scale.
Rainfall — A dotted line separates the districts in which rain has fallen from those where there has been none. Falls of 0.5 in. or more, are quoted 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	1.82
Nairn	55.9	42.0	48.4	45.0	1.07
Aberdeen	55.0	41.7	48.9	45.8	1.90
Leith	57.8	42.2	50.1	46.7	1.85
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	47.0	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	49.9	47.4	1.97
Scilly	56.3	48.2	52.7	50.8	1.66
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	1.73
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

Notes — The Temperature means are for the 15 years 1871—85, the Rainfall means are mainly those for the 30 years 1856—85.



GENERAL SITUATION AT 8 A.M.

PRESSURE

Highest 30.1 ins. and upwards, in the north of Sweden, also over South Germany.
 Lowest 29.5 ins. and less, on the west coasts of Ireland and Scotland.
 Gradients rather steep over our southwest coasts, but moderate or slight elsewhere.
 Barometer falling in the southwest of our Islands and the south of France, but rising in nearly all other localities.

TEMPERATURE

Highest 68° at Berlin, 66° at Bodo, 64° at Perpignan, 63° at Faerder, 62° at Munich, and 51° at Skagen.
 Lowest 49° at Belmullet, 50° at Shields and Mullaghmore, and 51° at Hornsea, Loughborough N., Barrow in Furness, and Pembroke.

WIND

Fresh or strong from the S^W or S^W over England, the east of Ireland, and the west and north of France.
 Light from the SE^W in the north of Scotland, and fresh from the same quarter at Valerius.
 Variable in Scandinavia, light W^W in Germany, moderate N^W at Lisbon.

WEATHER

Fine generally but showery over the southern parts of England and Ireland.
 Showers fell yesterday over nearly the whole of western Europe, and thunderstorms occurred in many parts of the United Kingdom.

SEA

Rough at the mouths of the English and St. George's Channels, and rather rough on our south and southwest coasts generally.

PROBABLE CHANGES IN SYSTEM NOW PREVALENT

The depression which is approaching the south of Ireland appears to be deeper than those recently noticed, and is likely to advance more directly over the Kingdom. A considerable increase in the force of the wind is probable on our south and southwest coasts, with gales in some places.

FORECASTS

for the 24 hours ending at NOON on 31ST MAY 1889.

DISTRICTS.	FORECASTS.	DISTRICTS.	FORECASTS.
0 { SCOTLAND NORTH	SE ^W winds, freshening; fair to showery.	6 { SCOTLAND WEST	S ^W and SE ^W winds, increasing in force, unsettled, some rain.
1 { SCOTLAND EAST		FT 7 { ENGLAND N.W.	
2 { ENGLAND N.E.		FT 8 { ENGLAND S.W.	S ^W and SW ^W winds, increasing to gale; squally showery.
3 { ENGLAND EAST	Same as N° 5.	9 { IRELAND NORTH	Same as N° 6 and 7.
4 { MIDLAND COUNTIES		FT 10 { IRELAND SOUTH	Same as N° 8.
FT 5 { ENGLAND SOUTH	S ^W and SW ^W winds, increasing in force; squally, changeable, some rain, thunder locally.	WARNINGS	
		The S. cone has been hoisted this morning in districts 8, 10 and parts of 5 and 7.	

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

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

YESTERDAY'S 2 P.M. REPORTS.

	Bar.	Dry.	Wet.	Wind.	Wea.	Sea.		Bar.	Dry.	Wet.	Wind.	Wea.	Sea.
Skudesnaes ...	29.30	58	56	SE 2	of	3	Holyhead ...	29.55	56	57	SSW 4	b	4
Sumburgh Head ...	29.60	59	50	SE 4	f	5	Valencia ...	29.50	53	50	W 5	op	5
Stornoway ...	29.43	56	55	SW 2	b	2	Scilly ...	29.69	57	52	WSW 6	c	6
Aberdeen ...	29.53	56	53	SE 4	b	4	Jersey ...	29.83	57	53	SW 4	c	4
Shields ...	29.52	59	53	SSW 4	c	2	Dungeness ...	29.76	58	54	SW 6	c	5
Ardrossan ...	29.47	56	51	SSW 3	b	3	London ...	29.71	62	54	SSW 3	c	3
Malin Head ...	29.39	60	59	WSW 2	b	3	Yarmouth ...	29.70	57	56	SSW 4	cp	4
Mullaghmore ...	29.39	54	51	W 3	cp	3	Rochefort ...	30.04	60	57	W 5	c	2
Belmullet ...	29.37	56	54	WSW 2	b	*							

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

The reports for yesterday morning showed that pressure was still increasing over southwestern Europe, decreasing in the west and north of the British Islands, and at the northern extremities of the Gulf of Bothnia, but was changing very little elsewhere. Readings varied from between 30.3 ins. and 29.9 ins. over Russia and Finland, and from between 30.2 ins. and 30.0 ins. over Spain and the southwest of France, to 29.4 ins. and less, at our extreme northwestern stations; readings were somewhat low over central and southern Europe, and local depressions, of great intensity were observed in several places. The wind had freshened considerably from the Wnd over the Bay of Biscay, and from SW in the Channel and the southern parts of England and Ireland, but was moderate to light from S. and S.E. on our northern coasts; in other parts of Europe it was light and very variable. The weather was fine in Algeria, Spain, and over Russia, less fair elsewhere, cloudy, squally and showery over the British Islands, dull and rainy in Austria; fog and haze were prevalent in Scotland. Temperature remained high over eastern Europe, and was somewhat high at some of the Mediterranean stations, low and changeable over the British Islands and the neighbouring parts of Continental Europe. The highest morning values were (1) 74° at Riga, 73° at Memel, 71° at Swinemunde and St. Petersburg, 70° at Moscow, 67° at Berlin, 66° at Kuopio, (2) 76° at Constantinople, 72° at Cagliari, 71° at Brindisi, 70° at Sfax (Tunis) 68° at Algiers, 67° at Genoa, Naples and Leghorn; the lowest were 48° at Archangel, Haparanda and Sumburgh Head, 50° at Wick, 51° at Aberdeen, Malin Head and Belmullet, 54° in London, 57° at Paris, and 59° at Lisbon.

During the day temperature rose to more than 70° at some of the Scandinavian, central German and southern French stations, but did not exceed 62° at any of our own stations. Showers of rain fell at almost all our own stations, but the night was clearer and rather cold.

EXPLANATION OF COLUMNS GIVEN ON PAGE 1.

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

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

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

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

DAILY WEATHER REPORT.

for FRIDAY 31ST MAY. 1889.

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

STATIONS.	+ YESTERDAY EVENING.						8 A.M. TO DAY.										PAST 24 HOURS.		
	Barometer at 32° F. and Sea Level.	Temp. in Shade.	WIND.		Weather.	Reading at 32° F. and Sea Level.	BAROMETER.		SHADE TEMP.		WIND.	Force (0 to 12.)	Weather.	Sec. (0 to 3.)	Max.	Min.	Amount of Rainfall.		
			Dir.	Force (0 to 12.)			Difference from 8 a.m. yesterday.	Dry.	Wet.	Difference from 8 a.m. yesterday.									
SCANDINAVIA.																			
Haparanda ..	30.06	60	Z	0	b	29.77	- .16	62	56	+ .7	SE	2	b	*	72	46	—		
Hernösand ...	29.94	52	NE	4	b	29.93	- .10	60	56	+ .9	Z	0	b	*	75	45	1.02		
Stockholm ...	29.94	63	Z	0	b	30.06	+ .20	62	55	+ .3	W	2	b	*	75	62	0.04		
Wisby ...	29.97	60	SE	2	b	30.08	+ .22	59	54	- .1	WNW	4	b	*	66	54	—		
Bodö ...	29.86	65	SE	1	b	29.87	- .07	50	49	- .16	WSW	6	o	3	73	50	—		
Christiansund...	29.81	52	WSW	6	r	29.89	+ .15	57	53	0	E	4	b	2	57	50	0.39		
Skudesnaes ...	29.90	54	S	8	c	29.93	+ .13	57	52	0	SSE	8	c	5	57	52	—		
Christiania Fjord (Færd)	29.93	59	SW	5	b	30.02	+ .18	57	52	- .6	WSW	4	b	2	64	54	—		
Skagen (The Scaw)	30.00	52	W	1	b	30.04	+ .22	56	52	- .5	SSW	1	b	1	63	52	—		
Fanö ...	30.02	50	SSE	1	b	30.01	+ .16	64	59	+ .7	SSE	3	b	*	64	48	0.04		
BRITISH ISLANDS.																			
Sumburgh Head	29.63	51	SSE	3	c	29.64	+ .06	52	51	+ .1	SSE	3	c	4	54	47	0.03		
Stornoway ..	29.54	55	S	4	c	29.51	+ .02	53	52	- .1	S	3	b	3	58	43	—		
Wick ...	29.60	55	S	1	b	29.55	+ .04	52	50	- .1	S	3	o	3	61	48	0.02		
Nairn ...	29.56	57	Z	0	b	29.53	+ .03	53	51	- .2	Z	0	b	1	62	50	0.06		
Aberdeen...	29.66	53	SSE	3	b	29.60	+ .01	50	48	- .3	SSE	4	om	4	57	48	—		
Leith ...	29.65	52	SE	2	c	29.57	00	54	51	- .1	S	2	o	*	63	47	0.12		
Shields ...	29.70	52	S	1	c	29.63	00	55	52	+ .5	SSW	5	c	2	61	48	0.08		
Spurn Head ...	29.77	53	SSE	4	b	29.77	+ .02	56	52	0	SSW	6	c	4	60	50	0.12		
York ...	29.72	51	WSW	2	r	29.68	00	54	51	0	S	3	c	*	62	48	0.12		
Loughborough	29.75	58	S	4	b	29.76	- .02	55	52	+ .1	S	4	og	*	61	49	—		
Ardrossan ...	29.59	55	S	3	b	29.54	- .01	54	51	+ .2	S	3	b	2	57	48	0.11		
Malin Head ...	29.51	50	ESE	3	b	29.46	- .01	52	50	0	S	3	c	2	59	45	0.12		
Mullaghmore ...	29.49	55	E	4	cp	29.51	+ .01	54	51	+ .4	SSW	1	b	1	59	47	0.19		
Belmullet ...	29.50	54	NE	3	c	29.52	+ .06	54	52	+ .5	WSW	2	b	*	57	46	0.09		
Donaghadee ...	29.59	53	SSW	4	b	29.56	+ .07	53	52	- .2	SW	4	c	2	57	47	0.02		
GERMANY.																			
Barrow-in-Furness	29.65	52	ESE	5	r	29.59	- .04	52	51	+ .1	SE	7	r	*	58	49	0.43		
Liverpool (Bidston)	29.67	49	SSW	3	o	29.55	- .05	52	50	- .2	S	4	op	3	58	49	0.58		
Holyhead ...	29.62	52	SSW	5	pg	29.61	- .04	52	51	- .2	SSW	4	c	4	58	49	0.15		
Parsonstown ...	29.49	57	SE	1	c	29.57	+ .02	54	51	+ .1	Z	0	c	*	59	48	0.03		
Valencia ...	29.50	56	W	2	c	29.61	+ .15	56	53	+ .3	WSW	2	c	2	59	48	0.04		
Roche's Point...	29.51	54	SSW	4	b	29.56	+ .02	55	52	+ .3	WSW	3	b	4	58	48	0.15		
Pembroke ...	29.57	52	SSW	6	r	29.66	00	53	52	+ .2	SSW	4	b	5	54	45	0.61		
Scilly ...	29.62	53	SSW	8	o	29.72	+ .04	55	53	- .1	SW	4	c	5	59	50	0.16		
Prawle Point ...	29.76	52	S	6	b	29.79	- .02	54	52	+ .1	S	6	cm	5	55	45	—		
Jersey ...	29.87	60	SSW	4	b	29.88	- .04	56	52	+ .1	SSW	5	cm	4	62	57	—		
Hurst Castle ...	29.84	53	SW	6	b	29.84	- .03	56	54	+ .2	SSW	6	b	4	59	52	—		
Dungeness ...	29.90	56	SSW	4	b	29.89	- .01	56	53	+ .2	SSW	4	b	3	62	52	—		
London ...	29.85	58	WSW	3	b	29.85	- .02	56	51	0	SW	2	o	*	61	48	0.01		
Oxford ...	29.87	52	S	4	b	29.81	- .02	54	50	+ .1	S	4	o	*	59	49	0.01		
Cambridge ...	29.84	54	S	2	o	29.84	00	56	53	+ .1	S	2	c	*	62	45	0.10		
Yarmouth ...	29.86	56	S	5	b	29.86	+ .02	56	54	0	S	5	b	4	59	50	0.05		
Cuxhaven ...	30.02	63	N	2	b	30.02	+ .10	63	60	+ .4	SSE	1	b	*	65	?	—		
Berlin ...	30.06	68	NW	3	b	30.09	+ .09	70	62	+ .2	SSE	3	b	*	79	61	—		
Wiesbaden ...	*	*	*	*	*	30.07	- .06	63	60	+ .3	NW	1	b	*	70	54	—		
Munich ...	30.10	62	NE	2	b	30.10	- .03	64	61	+ .2	NE	4	b	*	70	48	—		
FRANCE & NETHERLANDS.																			
The Helder ...	29.96	58	SSE	1	b	29.95	+ .04	59	55	+ .4	SSW	1	b	1	64	50	—		
Brussels ...	*	*	*	*	*	29.97	- .04	58	54	+ .3	S	1	o	*	67	53	—		
Cape Gris Nez...	?	61	SSW	1	b	?	?	55	53	+ .2	SSW	4	b	2	64	50	0.04		
Paris ...	29.95	59	W	2	o	29.95	- .10	56	54	+ .1	NNE	1	o	*	71	50	—		
Brest ...	?	57	SW	6	o	?	?	55	57	+ .2	SW	5	b	5	61	48	—		
Lorient ...	29.92	57	SW	5	b	29.89	- .05	55	50	+ .2	WSW	2	b	5	61	52	0.08		
Rochefort ...	30.03	63	W	3	b	29.97	- .10	54	54	- .2	NNE	3	r	2	64	48	0.59		
Belfort ...	30.00	66	S	1	b	29.97	- .16	67	60	+ .8	E	1	b	*	84	56	0.24		
Lyons ...	29.96	72	NNE	1	b	29.96	- .12	64	57	+ .7	SE	1	b	*	75	55	—		
Nice ...	30.01	68	WSW	3	b	30.00	- .01	70	62	+ .10	SW	1	b	0	72	?	—		
Perpignan ...	29.94	68	E	2	b	29.92	- .14	66	62	+ .2	Z	0	b	*	73	59	—		
Biarritz ...	29.97	60	NE	5	o	29.88	- .18	57	57	- .2	NNE	4	blr	3	66	55	0.43		
PENINSULA.																			
Corunna ...	*	*	*	*	*	29.94	- .14	57	51	- .1	NW	4	b	3	68	52	—		
Lisbon ...	29.98	59	NNW	5	b	29.94	- .14	57	51	- .1	NW	4	b	3	68	52	—		

For Explanation of Columns, see p. 4.

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

WEATHER CHARTS

for 8 a.m. on

Friday, 31st May,

1889.

BAROMETER, WIND & SEA.

(Explanation of Map)

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

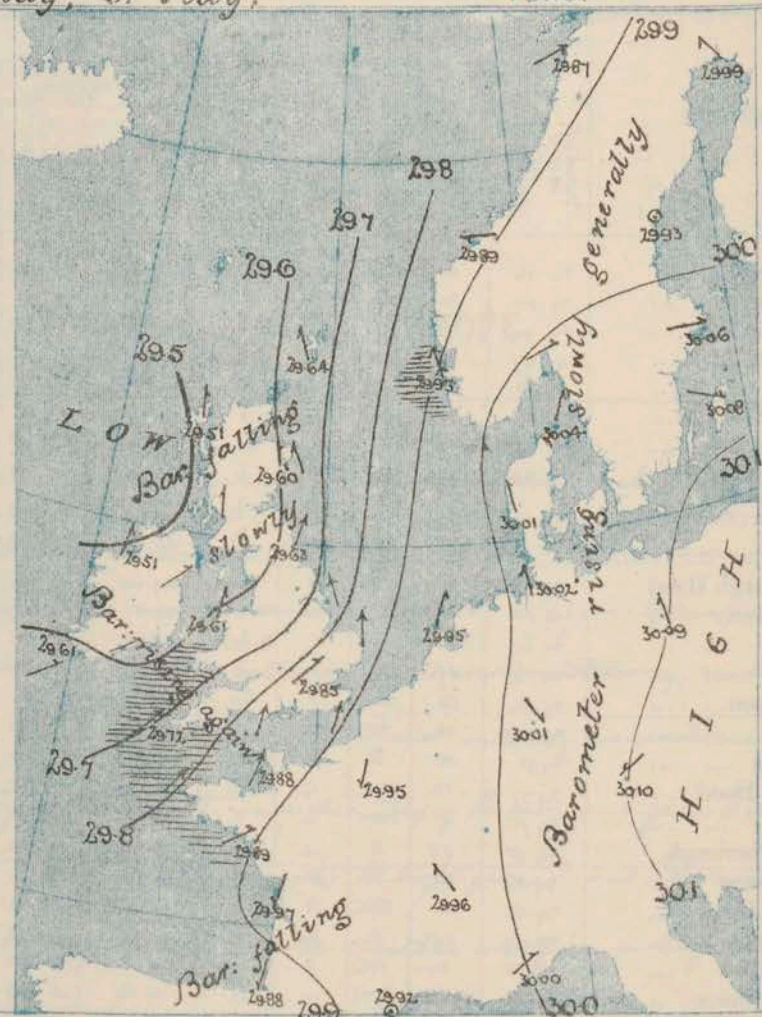
Sea Disturbance — where considerable, is shown thus.

— Rough. — High.

MEAN HEIGHT of the BAROMETER

at 8 a.m. for the month of 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
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.

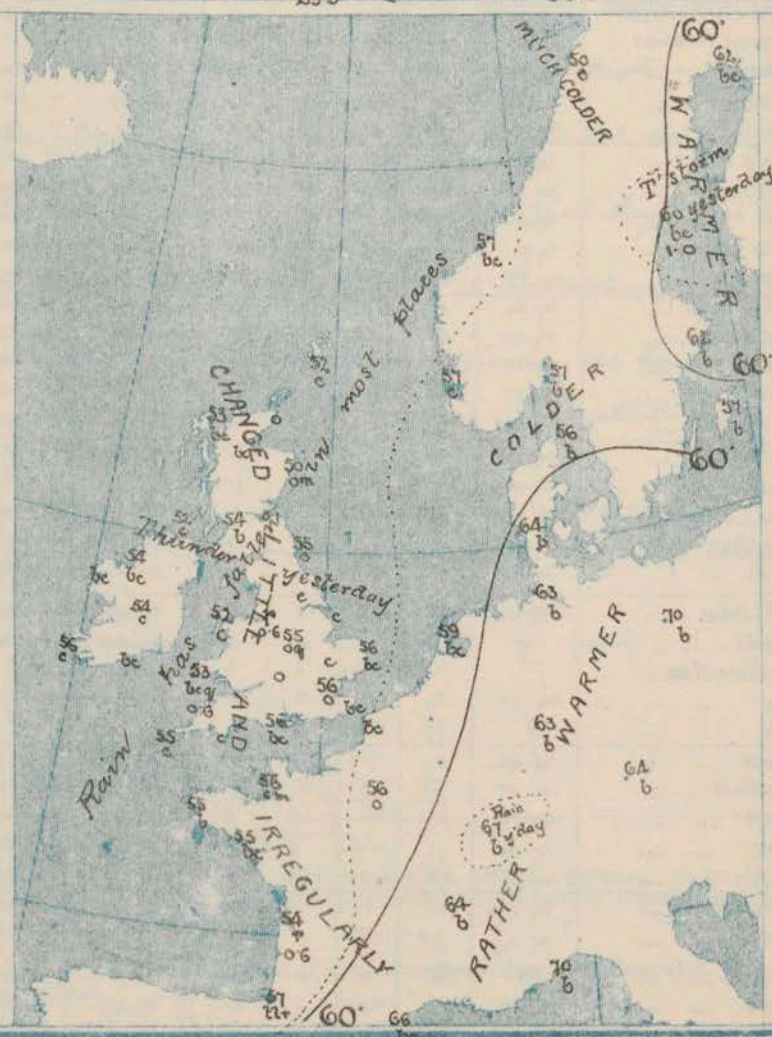
MEANS OF TEMPERATURE IN SHADE.

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	1.66
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	48.2	52.7	50.8	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 25 years 1866—85.



GENERAL SITUATION AT 8 A.M.

PRESSURE

Highest 30.1 ins. and upwards, over Germany and the southern parts of the Baltic.
 Lowest 29.5 ins. and less, in a depression lying off the west of Scotland.
 Gradients moderate over England and the North Sea, but slight elsewhere.
 Barometer falling a little in Scotland, the North of Sweden, and the south of France, but rising elsewhere.

TEMPERATURE

Highest 70° at Berlin and Nice, 67° at Belfort, 66° at Perpignan, 65° at Tani and Lyons, 63° at Bucharest, and 62° at Moscow.
 Lowest 50° at Bodo and Aberdeen, and 52° at Lumburg Head, Wick, Leith, Malin Head, Barrow-in-Furness, Liverpool, and south of England.

WIND

S. by E. over Great Britain, the north of France, and the eastern shores of the North Sea, fresh or strong in force in the east.
 Light or moderate from SW in Ireland, and from W in the south of Sweden.
 Variable over central France, NE by E at Rochefort and Biarritz, NW by W at Lisbon.

WEATHER

Showery at some of the English stations, and rainy in the southwest of France, with a thunderstorm at Biarritz.
 Fine in most other localities, but dull in the east of England.
 Showers fell yesterday on all but our southern coasts, and thunderstorms occurred in many parts of the country.

SEA

Rather rough in the western part of the Channel, as well as at Skudesnæs, but moderate to smooth elsewhere.

Note The Jersey reporter states that several shocks of earthquakes were experienced there at 8 pm yesterday.

PROBABLE CHANGES IN SYSTEM NOW PREVALENT

The distribution of pressure remains favourable for the development of shallow depression over our Islands, and showery weather is therefore likely to continue for a time.

FORECASTS

for the 24 hours ending at NOON on 1ST JUNE 1889.

DISTRICTS.

FORECASTS.

- | | |
|--|--|
| 0 { SCOTLAND NORTH
1 { SCOTLAND EAST
2 { ENGLAND N.E.
3 { ENGLAND EAST
4 { MIDLAND COUNTIES
5 { ENGLAND SOUTH | } S. by E. and SE by E winds, moderate; fair generally, but some showers.

} Same as No. 5.

} S. by E. winds, fresh, changeable, some showers, thunder locally. |
|--|--|

DISTRICTS.

FORECASTS.

- | | |
|--|---|
| 6 { SCOTLAND WEST
7 { ENGLAND N.W.
8 { ENGLAND S.W.
9 { IRELAND NORTH
10 { IRELAND SOUTH | Same as No. 0 and 1.
Same as No. 5.
S. by E. and SW by W winds, fresh or strong; changeable, some showers.
SW by W winds, moderate or fresh, fair to showery.
SW by E and W by E winds, moderate, changeable, some showers.
The S. Cone has been lowered this morning in districts 8, 10 and parts of 5 and 7. |
|--|---|

WARNINGS

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

YESTERDAY'S 2 P.M. REPORTS.

	Bar.	Dry.	Wet.	Wind.	Wes.	Sea.		Bar.	Dry.	Wet.	Wind.	Wes.	Sea.
Skudesnaes ...	29.85	55	51	SSE 6	c	4	Holyhead ...	29.64	57	52	SSW 5	bcg	5
Snmburgh Head	29.62	49	49	SSE 3	P	4	Valencia ...	29.47	59	54	SW 2	bc	3
Stornoway ...	29.53	53	53	S 3	c	3	Scilly ...	29.63	54	53	SSW 8	o	6
Aberdeen ...	29.63	54	49	SSE 4	bc	3	Jersey ...	29.89	61	55	SW 5	b	4
Shields ...	29.69	53	50	SW 2	c/f	2	Dungeness ...	29.91	60	55	SW 4	bc	3
Ardrossan ...	29.60	57	53	SSW 3	bc	2	London ...	29.86	59	51	SSW 4	c	*
Malin Head ...	29.52	54	50	ESE 4	o	3	Yarmouth ...	29.87	57	54	S 5	b	4
Mullaghmore ...	29.50	55	50	ESE 1	c/f	3	Rocheport ...	30.07	61	57	SSW 4	o	2
Belmullet ...	29.48	55	51	SW 1	o	*							

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

Continental information not yet received.

EXPLANATION OF COLUMNS GIVEN ON PAGE 1.

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

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

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

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CORRECTIONS AND ADDITIONS TO THE REPORTS FOR MAY 1889

1. REPORTS RECEIVED TOO LATE FOR INSERTION DAILY.

DATE.	STATIONS.	+ YESTERDAY EVENING.						8 A.M. TO DAY.										PAST 24 HOURS.		
		Barometer at 32° F. and Sea Level.	Temp. in Shade.	WIND.		Weather.	BAROMETER.		SHADE TEMP.			WIND.		Weather.	Sea. (0 to 9.)	SHADE TEMP.		Amount of Rainfall.		
				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.			
2	Haparanda...	30.30	37	N	2	0	30.38	+13	41	38	-1	NE	4	b	2	45	32	-		
	Corunna...	*	*	*	*	*	30.08	+27	52	50	-1	WSW	4	b	4	59	45	0.04		
4	Corunna...	*	*	*	*	*	29.85	.00	57	55	+3	S	3	r	3	59	54	0.04		
7	Corunna...	*	*	*	*	*	30.04	-.05	49	48	-1	E	2	0	4	61	41	0.04		
8	Corunna...	*	*	*	*	*	29.83	-.21	55	54	+6	S	1	r	3	66	48	0.08		
9	Corunna...	*	*	*	*	*	29.73	-.10	55	52	0	SW	5	bc	4	61	48	0.51		
11	Corunna...	*	*	*	*	*	29.58	-.26	56	53	0	WSW	4	0	4	61	52	0.08		
13	Corunna...	*	*	*	*	*	30.02	-.01	54	52	+1	NE	4	0	5	59	50	-		
14	Haparanda...	30.15	49	W	2	b	30.03	-.24	54	47	+2	?	2	b	*	63	37	-		
	Corunna...	*	*	*	*	*	29.91	-.11	58	55	+4	ESE	2	r	3	63	50	-		
15	Haparanda...	29.84	51	S	0	0	29.77	-.06	38	33	-16	N	6	0	*	60	36	-		
	Corunna...	*	*	*	*	*	29.93	+0.2	56	55	-2	WSW	1	r	?	61	54	0.71		
16	Haparanda...	30.06	34	WSW	2	bc	30.07	+10	36	31	-2	NE	2	b	*	50	30	-		
	Corunna...	*	*	*	*	*	30.02	+0.9	64	61	+8	NNE	1	0	4	64	54	0.04		
17	Corunna...	*	*	*	*	*	30.18	+1.6	58	55	-6	N	4	c	4	?	52	0.04		
18	Corunna...	*	*	*	*	*	30.20	+0.2	58	54	0	NE	1	b	4	63	45	-		
20	Cape Gris Neg...	?	52	SW	2	c	?	?	51	?	0	NW	1	m	0	59	50	-		
	Corunna...	*	*	*	*	*	29.98	-.07	63	59	+4	NNE	1	b	4	64	48	-		
21	Cape Gris Neg...	?	50	NE	2	r	?	?	52	-	+1	NNE	1	r	1	55	50	0.08		
	Lorient...	30.12	64	N	2	bc	30.14	+0.6	58	-	+8	NNE	1	bc	1	68	48	-		
	Corunna...	*	*	*	*	*	30.01	+0.3	64	60	+1	W	1	b	4	72	50	-		
22	Corunna...	*	*	*	*	*	29.96	-.05	58	58	-6	W	1	f	4	72	50	-		
23	Corunna...	*	*	*	*	*	29.81	-.15	57	56	-1	W	2	f	2	66	54	-		
24	Jano...	29.85	65	ESE	4	b	29.79	-.20	65	60	-1	SSE	4	b	*	77	57	-		
	Brussels...	*	*	*	*	*	29.73	-.12	68	62	0	S	1	b	*	81	60	-		
	Corunna...	*	*	*	*	*	29.71	-.10	65	61	+8	NNE	1	0	0	65	54	-		
25	Corunna...	*	*	*	*	*	29.69	-.02	57	52	-8	WSW	4	bc	5	66	50	0.08		
27	Corunna...	*	*	*	*	*	29.95	+1.7	56	54	+3	ESE	2	f	2	63	48	0.04		
28	Corunna...	*	*	*	*	*	30.03	+0.8	59	55	+3	WSW	4	0	3	66	54	-		
29	Corunna...	*	*	*	*	*	30.12	+0.9	55	53	-4	WSW	2	r	4	64	52	0.08		
31	Corunna...	*	*	*	*	*	29.95	-.17	60	56	+5	WSW	1	b	4	63	46	-		

NOTICE, — The Table containing the "Summary of Meteorological Observations made at the year 1888 was lithographed on the back of the Monthly sheet of "Corrections and Additions", is now issued in a for it in writing to the Secretary, Meteorological Office, 63, Victoria St. Str.

2. CORRECTIONS.

DATE.	STATIONS.	+ YESTERDAY EVENING.					8 A.M. TO DAY.										PAST 24 HOURS.		
		Barometer at 32° F. and Sea Level.	Temp. in Shade.	WIND.		Weather.	BAROMETER.		SHADE TEMP.			WIND.		Weather.	Sea. (0 to 2.)	SHADE TEMP.		Amount of Rainfall.	
				Dir.	Force. (0 to 12.)		Reading at 32° F. and Sea Level.	Difference from 8 a.m. yesterday.	Dry.	Wet.	Difference from 8 a.m. yesterday.	Dir.	Force. (0 to 12.)			Max.	Min.		
2	London.....	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.03	
3	Ardrossan.....	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	No rain	
	Mullaghmore 2pm	-	-	-	-	-	-	-	-	-	-	-	-	4	-	-	-	-	
4	Kirk.....	-	-	-	-	-	-	-	-	-	-	-	-	-	4.8	-	-	-	
	Pembroke.....	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.11	
6	Ardrossan.....	-	-	-	-	-	-	-	-	-	-	-	6	-	-	-	-	-	
7	Main.....	29.94	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
9	Sumburgh Hd.....	-	46	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	Liverpool.....	-	57	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	Cambridge.....	-	-	-	-	-	-	-	-	-	-	-	-	-	65	-	-	-	
10	Belmullet.....	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	No rain	
11	Sumburgh Hd.....	30.04	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	Brussels.....	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1.46	
15	Mullaghmore.....	-	52	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	Hurst Castle.....	29.78	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
17	York.....	-	-	-	-	-	29.94	0.1	-	-	-	-	-	-	-	-	-	No rain	
	Parsonstown.....	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.12	
19	Hurst Castle.....	-	-	-	-	-	-	-	2.85	-	1	-	-	-	-	-	-	-	
20	Cambridge.....	-	57	-	-	-	-	-	-	-	-	-	-	-	57	-	-	-	
21	Spurn Hd.....	-	-	-	-	-	-	-	-	-	-	-	-	-	-	48	-	-	
22	Pilly 2pm.....	-	-	-	-	-	30.08	-	-	-	-	-	-	-	-	-	-	-	
23	Spurn Head.....	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	No rain	
	Jersey.....	29.97	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
24	Main.....	-	-	-	-	-	-	-	-	-	-	-	-	-	63	-	-	-	

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