

DAILY WEATHER REPORT

METEOROLOGICAL OFFICE,  
LONDON.

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DAILY WEATHER REPORTS.

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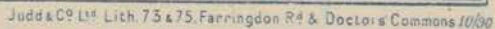
1<sup>ST</sup> JANUARY-30<sup>TH</sup> JUNE,  
1890.

*Sec. Reg. Lond.*



January to June 1890.

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# DAILY WEATHER REPORT.

for Sunday 1<sup>st</sup> June. 1890.  
Issued by the Meteorological Office, 63, Victoria Street, London. R. H. SCOTT, Secretary.

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STATIONS.	YESTERDAY EVENING.					8 A.M. TO DAY.										PAST 24 HOURS.		
	BAROM.	TEMP.	WIND.		Weather.	BAROMETER.		SHADE TEMP.			WIND.		Weather.	Sea. (0 to 9.)	SHADE TEMP.		Amount of Rainfall.	
	Reading at 32° F. and Sea Level.	Dry.	Dir.	Force. (0 to 12.)		Reading at 32° F. and Sea Level.	Difference from 8 a.m. yesterday.	Dry.	Wet.	Difference from 8 a.m. yesterday.	Dir.	Force. (0 to 12.)			Max.	Min.		
SCANDINAVIA.																		
Haparanda ...	29.20	53	NNE	2	bc	29.21	-12	46	43	-5	N	6	o	*	53	41	0.20	
Hernösand ...	29.29	47	N	4	p	29.38	+13	47	41	+2	NNW	6	bc	*	50	41	0.08	
Stockholm ...	29.40	46	WNW	2	o	29.51	+29	50	43	+1	NW	2	bc	*	53	41	0.28	
Wisby ...	29.46	46	NW	4	bc	29.56	+23	49	47	+1	W	4	bc	*	53	45	0.04	
Bodö ...	29.52	42	N	4	o	29.51	+04	40	36	-6	N	2	o	1	46	37	0.04	
BRITISH ISLANDS.																		
Christiansund	29.69	42	NNW	5	p	29.70	+10	42	39	-3	E	2	p	3	?	37	0.67	
Skudesnaes ...	29.79	45	NW	7	c	29.76	+13	48	43	-2	WNW	1	c	3	52	39	—	
Christiania Fjord (Færder)	29.53	52	SWW	3	bc	29.65	+24	48	41	-1	NNW	4	c	2	54	46	—	
Skagen (The Seaw)	29.53	50	NW	1	bc	29.65	+23	51	46	+4	NNE	1	bc	1	59	46	—	
Fanö ...	29.80	47	WNW	7	c	29.80	+20	49	45	+1	WNW	5	c	*	52	43	0.08	
Sumburgh Head	29.90	46	W	2	o	29.67	-22	48	48	+4	SW	1	p	3	49	40	0.10	
Stornoway ...	30.03	52	W	4	c	29.72	-31	52	51	+5	NW	4	c	4	54	45	0.08	
Wick ...	29.98	48	NW	4	bc	29.70	-28	51	49	+3	SW	4	o	2	53	42	0.05	
Nairn ...	30.03	52	W	2	c	29.75	-28	53	49	+9	W	3	c	2	53	43	0.01	
Aberdeen ...	30.04	50	WNW	3	c	29.80	-25	52	46	+9	SW	3	o p	2	53	43	0.02	
Leith ...	30.06	56	W	1	c	29.89	-21	53	47	+2	W	2	c	*	58	41	—	
Shields ...	30.08	49	S	2	bc	29.95	-14	50	47	+4	SW	3	bc	2	51	40	—	
Spurn Head ...	30.10	49	NNE	2	bc	30.00	-10	51	48	+3	N	3	bc	3	53	45	—	
York ...	30.11	54	W	1	c	29.95	-14	53	48	+8	W	3	bc	*	60	40	—	
Loughborough	30.13	55	WNW	3	bc	30.07	-08	54	49	+4	W	2	bc	*	60	40	—	
GERMANY.																		
Ardrossan ...	30.11	54	W	4	c	29.93	-20	49	47	0	W	4	d	3	59	36	—	
Malin Head ...	30.15	51	NW	3	bc	29.93	-24	49	49	+1	SW	5	o d	3	54	45	0.04	
Mullaghmore ...	30.18	53	WNW	2	bc	30.04	-14	50	48	-1	W	4	om	2	54	42	—	
Belmullet ...	30.20	54	NNE	2	bc	30.07	-16	53	52	+2	WNW	2	om	*	55	42	0.01	
Donaghadee ...	30.17	51	NE	2	bc	30.01	-19	51	48	+2	NW	2	o	0	58	44	—	
FRANCE AND BELGIUM.																		
Liverpool (Bidston)	30.16	52	WNW	3	bc	30.04	-13	54	50	+5	W	4	bc	4	54	44	0.01	
Holyhead ...	30.18	51	W	1	bc	30.05	-15	58	53	+6	W	2	bc	2	60	46	—	
Parsonstown ...	30.21	62	Z	0	bc	30.08	-18	52	51	+2	Z	0	o	*	63	46	—	
Valencia ...	30.19	52	SE	4	om	30.15	-04	54	53	+3	NNW	1	o v	1	54	50	0.08	
Roche's Point...	30.21	53	SE	2	c	30.15	-06	53	51	0	W	3	o	3	58	48	—	
NETHERLANDS.																		
Pembroke (St. Ann's Hd.)	30.20	54	NNW	2	bc	30.13	-10	53	50	+2	W	3	bc	2	53	45	—	
Scilly ...	30.14	55	E	4	o	30.14	-02	54	52	+1	N	1	bc	3	56	51	0.07	
Prawle Point ...	30.19	58	SW	2	bc	30.14	-09	53	49	+6	SE	1	bc	0	53	43	—	
Jersey (St. Aubin's)	30.19	53	NW	3	o	30.16	-06	58	51	+4	NNE	2	bc	2	58	39	—	
Hurst Castle ...	30.15	53	W	5	c	30.14	-08	55	52	+3	NNW	1	bc	1	57	41	—	
PORTUGAL.																		
Dungeness ...	30.13	53	S	2	bc	30.07	-07	52	47	+3	NW	3	bc	1	58	37	—	
London ...	30.13	53	NW	2	bc	30.10	-06	52	47	+2	NW	2	bc	*	58	37	—	
Oxford ...	30.16	51	NW	2	bc	30.10	-09	51	47	+4	SW	2	bc	*	58	37	—	
Cambridge ...	30.12	54	N	1	c	30.06	-09	53	49	+6	NNW	1	c	*	57	37	—	
Yarmouth ...	30.12	53	NNE	3	bc	30.03	-04	52	48	+4	NW	3	bc	2	54	42	—	
AFRICA.																		
Cuxhaven ...	29.97	47	WNW	6	bc	29.94	+16	49	46	+1	WNW	5	bc	*	52	46	0.02	
Berlin ...	*	*	*	*	*	30.05	-04	53	45	+2	NNE	2	bc	*	59	43	—	
Wiesbaden ...	*	*	*	*	*	30.00	-11	51	47	+3	E	5	bc	*	58	41	0.04	
Munich ...	30.08	49	NW	2	c	30.03	+01	50	44	+2	WNW	2	c	3	50	46	—	
The Helder ...	30.08	49	NW	2	c	30.03	+01	50	44	+2	WNW	2	c	3	50	46	—	
ASIA.																		
Brussels (9 a.m.)	*	*	*	*	*	?	?	56	50	+3	N	3	bc	*	59	?	—	
Cape Gris Nez	*	53	NNE	2	bc	30.12	-04	49	44	-2	N	2	bc	*	63	37	—	
Paris ...	30.12	57	NNE	3	bc	30.13	-06	52	50	-1	NNE	2	o	2	63	48	0.08	
Brest ...	30.15	58	Z	0	m	30.13	-09	50	48	-3	E	3	o	2	63	48	—	
Lorient ...	30.29	58	WNW	2	o	30.13	-09	50	48	-3	E	3	o	2	63	48	—	
AUSTRALIA.																		
Rochefort ...	30.10	61	WNW	4	c	30.08	-11	56	54	-3	NNE	4	o	?	66	48	—	
Belfort ...	30.00	58	W	1	o	29.94	-13	56	49	+1	SE	1	bc	*	69	51	0.08	
Lyons ...	30.02	60	NNW	3	o	29.98	-17	54	47	-3	NNW	3	bc	*	67	49	—	
Nice ...	29.92	58	W	2	c	29.79	-25	57	56	-1	SW	2	c	2	68	53	—	
Perpignan ...	30.03	66	NW	3	o	29.95	-20	63	56	-1	W	3	c	*	73	59	—	
Biarritz ...	30.16	59	N	3	o	30.06	-18	57	55	0	W	3	o	1	66	54	—	
AMERICA.																		
Corunna ...	*	*	*	*	*	30.10	-13	58	56	-3	N	3	o	7	66	54	—	
Lisbon ...	30.18	59	NNW	3	bc	30.09	-12	58	55	-3	NW	2	o	5	73	54	—	

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

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



# WEATHER CHARTS

for 8 a.m. on

Sunday, 1<sup>st</sup> June,

1890.

## BAROMETER, WIND AND SEA.

### EXPLANATION OF MAP.

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

Changes since previous morning are stated in words.

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

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

→ = forces 5 to 7; → = forces 1 to 4.

○ = dead calm.

**SEA DISTURBANCE**—Where considerable, is shown thus:

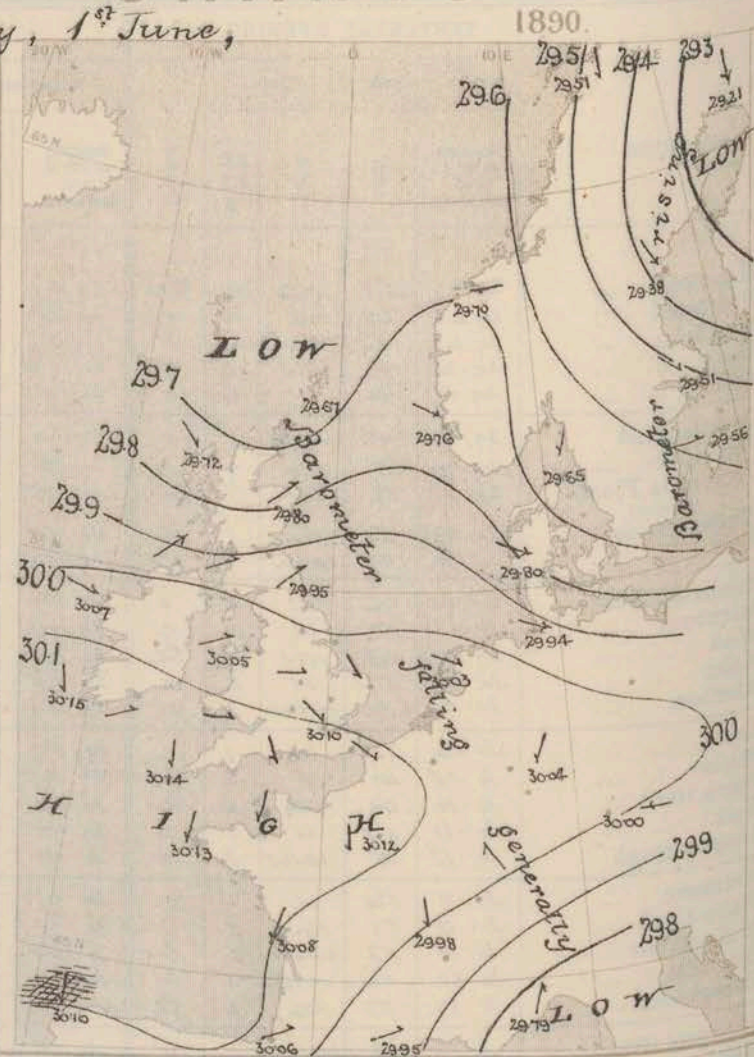
▨ = Rough. ▨ = High.

### MEAN HEIGHT OF THE BAROMETER

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

During the 15 Years: 1871—1885.

STATIONS.	MEAN READINGS.
Sumburgh Head	29.862
Stornoway	29.852
Wick	29.874
Nairn	29.880
Aberdeen	29.890
Leith	29.904
Shields	29.928
York	29.949
Loughborough	29.958
Ardrossan	29.909
Donaghadee	29.920
Holyhead	29.944
Liverpool	29.944
Parsonstown	29.952
Valencia	29.954
Roche's Point	29.952
Pembroke	29.952
Sailly	29.982
Jersey	29.994
Hurst Castle	29.981
Dover	29.971
LONDON	29.976
Oxford	29.964
Cambridge	29.967
Yarmouth	29.963



## 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.

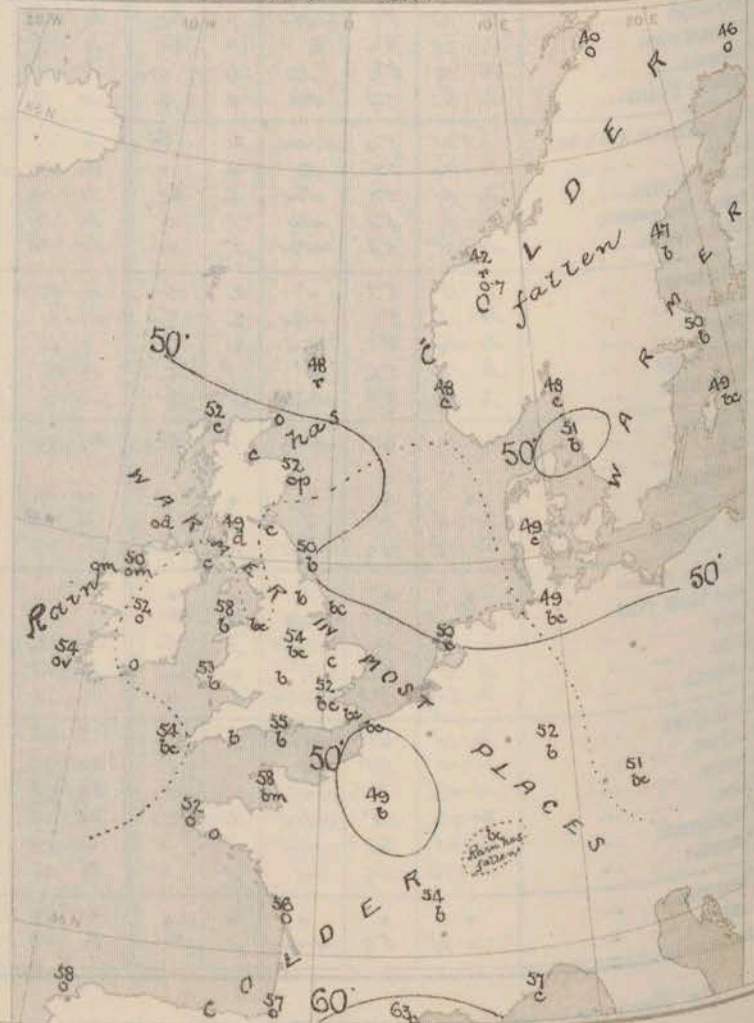
**RAINFALL**—A dotted line separates the districts in which rain has fallen from those where there has been none. Falls of 0.5 in. or more are quoted in figures.

### MEANS OF TEMPERATURE IN SHADE, AND RAINFALL.

(For the month of June.)

STATIONS.	TEMPERATURE.				RAINFALL (Inches.)
	Daily Max.	Daily Min.	at 8 a.m. Dry.	Wet.	
Sumburgh Head	51.5	45.1	50.4	48.7	2.07
Stornoway	57.6	46.0	53.3	51.0	2.99
Wick	58.8	45.7	53.1	50.4	1.76
Nairn	62.1	48.0	54.2	50.4	1.88
Aberdeen	61.3	47.5	54.7	50.9	1.88
Leith	64.5	48.1	56.0	52.6	1.84
Shields	60.9	49.1	54.9	51.0	1.82
York	66.2	48.3	56.1	52.7	2.45
Loughborough	68.7	49.0	58.1	54.1	2.43
Ardrossan	62.0	49.7	55.1	52.0	2.62
Donaghadee	60.9	48.9	55.0	52.8	2.04
Holyhead	61.7	51.6	55.6	53.1	2.10
Liverpool	63.6	50.9	56.6	52.6	1.96
Parsonstown	64.0	48.2	55.8	52.2	2.46
Valencia	61.7	50.7	56.8	53.8	3.42
Roche's Point	64.8	50.8	56.5	53.3	3.29
Pembroke	60.3	51.4	55.0	52.9	2.09
Sailly	61.1	52.0	57.2	55.6	1.94
Jersey	64.8	52.6	58.7	55.9	1.83
Hurst Castle	63.9	51.9	57.0	55.4	2.07
Dover	63.3	53.1	58.0	55.1	1.72
LONDON	69.3	50.6	59.2	54.8	2.12
Oxford	67.1	49.4	56.9	53.4	2.28
Cambridge	68.8	48.5	58.0	54.7	2.49
Yarmouth	62.2	51.4	56.9	54.1	2.02

**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 south of our Islands and the northern parts of the Bay of Biscay.  
Lowest 29.3 ins. and less in the north of Sweden; 29.4 ins. and less in the extreme north of Scotland;  
29.8 ins. and less over the Gulf of Genoa.

TEMPERATURE

Gradients slight generally. Barometer falling at all but the Scandinavian stations, most in the N. of our Islands.

Highest 63° at Perpignan, 58° at Holyhead, Jersey, Corunna and Lisbon and 57° at Biarritz & Nice.  
Lowest 40° at Bodø, 42° at Christiansund, 46° at Haparanda, 47° at Hernösand & 48° at Skudsnäs, Faerder and  
The maxima registered yesterday were below 60° in many parts of the United Kingdom, Lumburg &c.

WIND

Light or moderate from the W<sup>2</sup> or SW<sup>2</sup> over the greater part of the United Kingdom, but NW<sup>2</sup> in the  
Hebrides, as well as over Scandinavia, Denmark and the southeast of England.

WEATHER

Light from N. or NE. over the northern parts of France, but SW<sup>2</sup> in the S. of that Country; E<sup>2</sup> or NE<sup>2</sup> in Germany.

Fair over England, and also in Sweden, Denmark, Germany & the eastern and central parts of France.

Cloudy or overcast elsewhere, with rain at several of the Scotch stations and also at Christiansund.

Showers fell yesterday at several of our western stations, and considerable amounts of rain in some parts of  
Scandinavia.

SEA

Slight or smooth generally.

PROBABLE CHANGES IN SYSTEM NOW PREVALENT

## FORECASTS

For the 24 hours ending at NOON on 2<sup>ND</sup> JUNE 1890.

DISTRICTS.

FORECASTS.

DISTRICTS.

FORECASTS.

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

NONE ISSUED

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

NONE ISSUED

WARNINGS

NONE ISSUED

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



# YESTERDAY'S 2 P.M. REPORTS.

	BAR:	THER:		WIND		WEA.	SEA		BAR:	THER:		WIND		WEA.	SEA
		D.	W.	D.	F.					D.	W.	D.	F.		
Skudesnaes ...	29.71	51	46	NW	4	bc	4	Holyhead ...	30.21	56	50	NW	2	c	2
Sumburgh Head ...	29.94	46	41	NW	3	c	5	Valencia ...	30.20	54	53	SE	4	om	3
Stornoway ...	30.29	54	52	NW	2	bc	3	Scilly ...	30.14	53	53	E	4	f	3
Aberdeen ...	30.07	53	43	NW	4	bcg	4	Jersey ...	30.21	56	49	NW	3	om	2
Shields ...	30.11	53	46	NE	2	c	3	Dungeness ...	30.13	56	52	NNW	3	c	2
Ardrossan ...	30.15	53	53	SW	4	bc	3	London ...	30.16	55	47	NW	2	c	3
Malin Head ...	30.18	53	48	NW	3	c	2	Yarmouth ...	30.11	53	46	N	3	c	2
Mullaghmore ...	30.23	53	48	WNW	3	bc	2	Rochefort ...	30.15	65	62	WNW	4	c	2
Belmullet ...	30.24	53	47	WNW	2	c	*								

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

Weather fair or fine over the greater part of western, southern and eastern Europe, but dull in the extreme southwest of the United Kingdom, with rain at Valencia Island, and fog at Scilly. Dull and unsettled over Sweden, northern and central Russia, the Baltic and eastern Germany, with rain at Hernösand, Hango, Helsingfors and Warsaw. Slight rain falling later in several parts of central and southern Europe, and larger amounts at some of the Russian and Scandinavian stations.

Temperature highest 81° at Constantinople, 74° at Brindisi, 69° at Trieste, Palermo, and Spain, and 68° at Barcelona, Livorno, Nicolaieff, and Tunis; above 60° over southern Europe generally. Lowest 43° at Aberdeen, 44° at Sumburgh Head and Nairn, and 45° at Hernösand, Christiansund and Swinemunde. Daily maxima below 60° in most parts of the United Kingdom, but thermometer rising above 70° in Spain, Italy, Algeria and the south of France. Ground frost occurring at some of the English stations at night.

Wind strong from the NW<sup>wt</sup> on the eastern shores of the North Sea, and lighter moderate from the same quarter in most parts of western and southern Europe, but light from the SE<sup>wt</sup> in the extreme southwest of our Islands. Strong to a gale from W. over N. Germany and the Baltic; light from SW. in Poland, and from NE in Lapland and the north of Sweden. Wind moderating later over Denmark and the Baltic and backing to the W<sup>wt</sup> in the north of Scotland.

Barometer highest 30.2 ins. and upwards in a long and narrow ridge extending northwards from Morocco and Portugal to the west of France, and thence in a NW<sup>ly</sup> direction to the west of Ireland. Lowest 29.3 ins. and less in a large depression lying over the Gulfs of Bothnia and Finland and the adjacent countries; shallow disturbance apparently lying to the south-westward of our Islands. Depression over northern Europe subsequently travelling north-eastwards, but another system beginning to approach the north of Scotland from the westward.

### EXPLANATION OF COLUMNS GIVEN ON PAGE 1.

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

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

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

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



# DAILY WEATHER REPORT.

for *Monday 2<sup>nd</sup> June.* 1890.

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

STATIONS.	YESTERDAY EVENING.					8 A.M. TO DAY.										PAST 24 HOURS.		
	Barom. Reading at 32° F. and Sea Level.	TEMP. Dry.	WIND.		Weather.	BAROMETER.		SHADE TEMP.			WIND.		Weather.	Sea. (0 to 5.)	SHADE TEMP.		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 ...	29.24	48	2	0	c	29.44	+2.8	50	46	+4	NE	2	o	*	54	43	—	
Hernösand ...	29.56	48	NNW	4	c	29.66	+2.8	44	36	-3	WNW	7	bc	*	53	41	—	
Stockholm ...	29.63	48	WSW	2	c	29.73	+2.2	52	45	+2	W	2	bc	*	59	48	—	
Wisby ...	29.67	47	SW	4	c	29.76	+2.0	48	45	-1	NW	4	bc	*	53	45	—	
Bodö ...	29.57	41	NW	2	c	29.63	+1.2	40	35	0	WSW	2	bc	1	41	36	0.12	
CHRISTIANIA.																		
Christiansund	29.72	45	NNW	1	bc	29.70	0.0	45	40	+3	SE	2	bc	2	63	37	—	
Skudesnaes ...	29.70	48	SW	1	o	29.70	-0.6	50	45	+2	SE	2	bc	3	50	45	0.04	
Christiania Fjord (Færder)	29.83	50	SE	3	bc	29.69	+0.4	46	44	-2	NNE	4	bc	3	52	45	—	
Skagen (The Seaw)	29.68	48	W	4	bc	29.73	+0.8	50	45	-1	SW	2	bc	1	53	41	—	
Fanö ...	29.82	48	WSW	4	c	29.67	-1.3	52	50	+3	SW	5	c	*	54	46	0.08	
SCOTLAND.																		
Sumburgh Head	29.52	49	S	1	c	29.67	0.0	46	46	-2	NE	1	o	2	51	42	0.14	
Stornoway ...	29.75	51	NW	4	o	29.70	-0.2	50	49	-2	W	4	o	4	53	45	—	
Wick ...	29.65	54	NW	6	o	29.70	0.0	50	48	-1	NW	2	o	1	53	42	0.11	
Nairn ...	29.71	53	W	3	c	29.74	-0.1	52	49	-1	W	3	bc	2	58	45	0.02	
Aberdeen ...	29.70	53	NW	3	c	29.75	-0.5	51	46	-1	WNW	2	c	2	58	42	0.17	
ENGLAND.																		
Leith ...	29.73	58	W	3	c	29.80	-0.9	53	46	0	WSW	1	o	*	62	44	—	
Shields ...	29.77	59	SW	5	c	29.82	-1.3	54	50	+4	WNW	3	bc	2	61	41	—	
Spurn Head ...	29.83	59	WSW	4	bc	29.85	-1.5	54	50	+3	WNW	5	c	3	60	50	—	
York ...	29.87	57	W	4	bc	29.86	-0.9	54	50	-1	W	3	c	*	65	48	—	
Loughborough ...	29.92	60	WSW	3	c	29.92	-1.5	54	51	0	W	3	o	*	65	50	0.04	
IRELAND.																		
Ardrossan ...	29.81	53	W	3	c	29.81	-1.2	52	49	+3	SW	1	o	1	56	48	0.02	
Malin Head ...	29.88	51	WNW	5	odp	29.81	-1.2	52	51	+3	WSW	3	odp	2	52	49	0.02	
Mullaghmore ...	29.97	53	W	5	odp	29.95	-0.9	54	53	+4	SW	4	om	2	53	49	0.03	
Belmullet ...	30.02	53	W	3	om	29.85	-2.2	54	54	+1	WSW	3	c	*	59	51	0.07	
Donaghadee ...	29.89	55	NW	3	c	29.87	-1.4	54	52	+3	NW	3	o	1	60	50	0.01	
WALES.																		
Liverpool (Bidston)	29.90	56	WSW	5	o	29.90	-1.4	52	51	-2	W	4	o	4	59	49	0.02	
Holyhead ...	29.95	54	SW	3	og	29.93	-1.2	54	52	-4	W	3	og	2	61	51	—	
Parsonstown ...	30.01	57	2	0	c	29.95	-1.3	55	53	+3	2	o	6	*	60	50	—	
Valencia ...	30.12	56	W	2	o	30.03	-1.2	55	54	+1	SW	3	omd	3	60	51	0.02	
Roche's Point...	30.06	60	NNW	4	bc	30.03	-1.2	55	52	+2	W	3	c	3	64	52	—	
FRANCE.																		
Pembroke (St. Ann's Hd.)	30.02	55	WSW	4	bc	30.00	-1.3	52	51	-1	W	3	o	3	56	51	0.02	
Soilly ...	30.08	56	W	3	c	30.05	-0.9	53	53	+1	WNW	4	o	2	57	52	—	
Prawle Point...	30.08	54	WSW	5	c	30.03	-1.1	54	51	+1	WNW	2	c	1	58	51	—	
Jersey (St. Aubin's)	30.11	57	W	3	bm	30.07	-0.9	57	54	-1	WNW	4	bm	3	59	51	—	
Hurst Castle ...	30.04	58	SW	5	c	29.98	-1.6	60	56	+5	WNW	5	bc	1	60	50	—	
NETHERLANDS.																		
Dungeness ...	29.96	55	WSW	5	c	29.93	-1.4	55	53	+3	W	4	c	3	62	51	—	
London ...	29.95	62	WSW	4	bc	29.93	-1.7	58	53	+6	NW	2	c	*	64	51	—	
Oxford ...	29.96	54	W	4	c	29.95	-1.5	56	52	+5	W	3	o	*	64	51	—	
Cambridge ...	29.99	61	NW	1	c	29.91	-1.5	57	52	+2	NW	1	c	*	66	51	0.02	
Yarmouth ...	29.90	59	W	2	c	29.85	-1.8	56	52	+4	NW	4	bc	2	60	50	0.04	
GERMANY.																		
Cuxhaven ...	29.95	49	W	3	bc	29.81	-1.3	47	46	-2	SW	3	bc	*	51	46	0.02	
Berlin ...	29.94	52	WNW	4	bc	29.94	0.0	52	48	-3	WNW	3	bc	*	57	41	0.04	
Wiesbaden ...	29.96	49	NW	1	*	29.99	-0.5	49	45	-3	N	1	bc	*	59	41	—	
Munich ...	29.96	49	NW	1	*	30.02	+0.2	50	48	-1	SW	3	bc	*	59	48	0.04	
The Helder ...	29.90	53	SW	2	o	29.80	-2.3	54	52	+4	W	2	o	3	59	50	0.08	
BELGIUM.																		
Brussels (9 a.m.)	?	54	NW	4	*	29.89	?	49	48	-1	SW	2	bc	*	59	46	—	
Cape Gris Nez	30.04	59	N	3	bc	30.06	-0.6	51	47	+2	SW	1	bc	*	61	50	—	
Paris ...	30.15	58	N	2	bc	30.08	-0.5	53	52	+1	N	2	o	2	63	46	—	
Brest ...	30.09	61	WNW	3	bc	30.12	-0.1	56	53	+6	NW	3	o	2	63	52	—	
Lorient ...	30.09	61	WNW	3	bc	30.12	-0.1	56	53	+6	NW	3	o	2	63	52	—	
FRANCE AND BELGIUM.																		
Rochefort ...	30.04	62	NW	4	bc	30.09	+0.1	56	54	0	E	3	bc	*	66	45	—	
Belfort ...	30.04	62	NW	4	bc	30.09	+0.1	56	54	0	E	3	bc	*	66	45	—	
Lyons ...	30.04	62	NW	4	bc	30.09	+0.1	56	54	0	E	3	bc	*	66	45	—	
Nice ...	29.73	61	ENE	5	c	29.82	+0.3	63	58	+6	ENE	5	bc	2	70	55	—	
Perpignan ...	29.91	66	NW	3	c	29.99	+0.4	63	52	0	WNW	3	bc	*	73	55	—	
Biarritz ...	30.04	61	NNE	5	bc	30.14	+0.8	56	52	-1	ENE	2	o	2	66	54	—	
SPAIN.																		
Corunna ...	30.04	60	NNW	5	*	30.08	-0.1	65	53	+7	NNE	4	bc	2	65	57	—	
Lisbon ...	30.04	60	NNW	5	*	30.08	-0.1	65	53	+7	NNE	4	bc	2	65	57	—	

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

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



# WEATHER CHARTS

for 8 a.m. on

Monday, 2<sup>nd</sup> June,

1890.

## BAROMETER, WIND AND SEA.

### EXPLANATION OF MAP.

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

Changes since previous morning are stated in words.

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

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

→ = forces 5 to 7; → = forces 1 to 4.

⊙ = dead calm.

**SEA DISTURBANCE**—Where considerable, is shown thus:

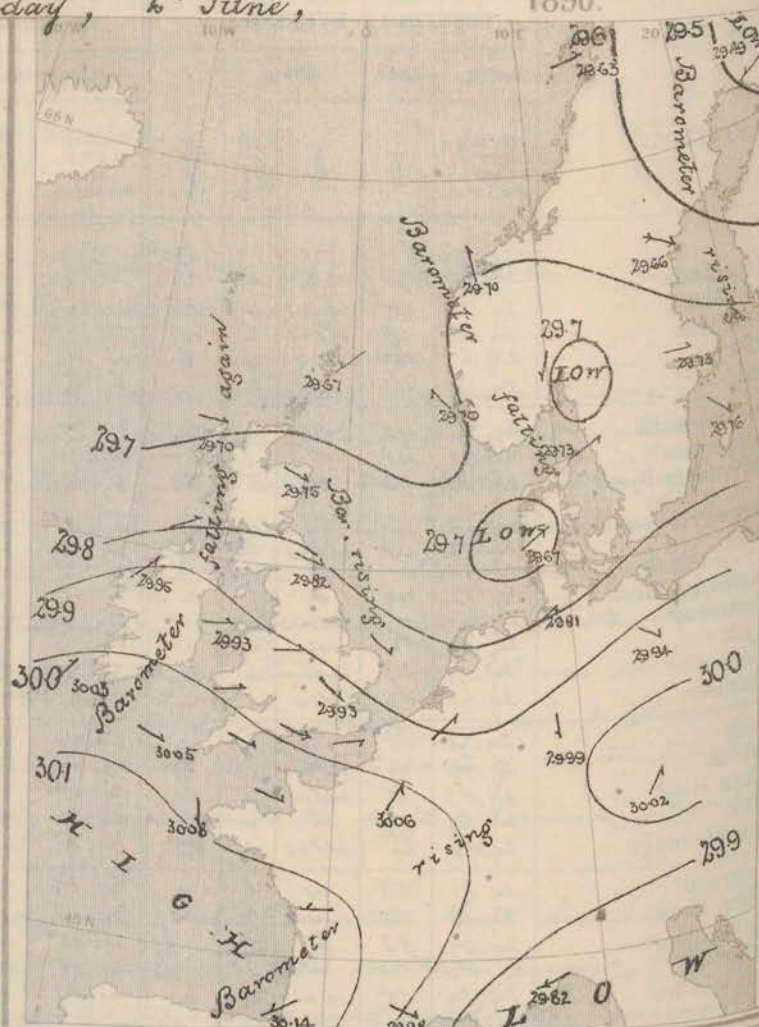
▨ = Rough. ▨ = High.

### MEAN HEIGHT OF THE BAROMETER

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

During the 15 Years: 1871—1885.

STATIONS.	MEAN READINGS.
Sumburgh Head	29.802
Stornoway	29.852
Wick	29.874
Nairn	29.880
Aberdeen	29.890
Leith	29.904
Shields	29.928
York	29.949
Loughborough	29.958
Ardrossan	29.909
Donaghadee	29.920
Holyhead	29.944
Liverpool	29.944
Parsonstown	29.962
Valencia	29.954
Roche's Point	29.952
Pembroke	29.952
Scilly	29.982
Jersey	29.994
Hurst Castle	29.981
Dover	29.971
LONDON	29.976
Oxford	29.964
Cambridge	29.967
Yarmouth	29.968



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

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

**WEATHER**—Is shown by Letters of the Beaufort Scale.

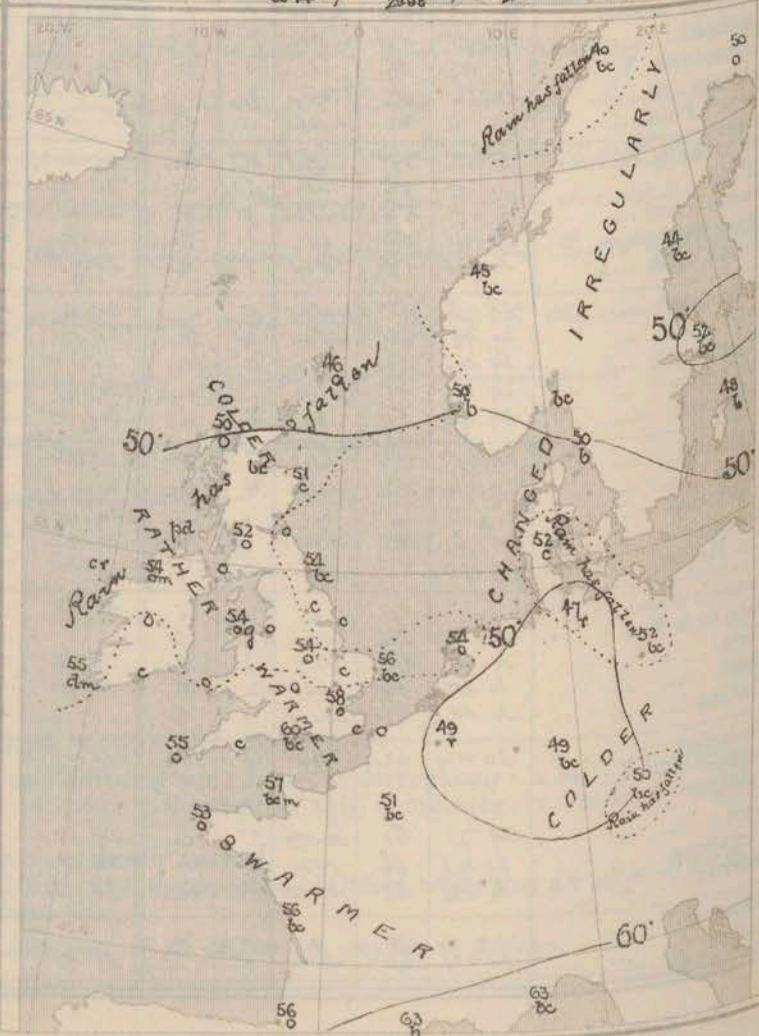
**RAINFALL**—A dotted line separates the districts in which rain has fallen from those where there has been none. Falls of 0.5 in. or more are quoted in figures.

### MEANS OF TEMPERATURE IN SHADE, AND RAINFALL.

(For the month of June.)

STATIONS.	TEMPERATURE.				RAINFALL (Inches.)
	Daily	Daily	at 8 a.m.		
	Max.	Min.	Dry.	Wet.	
Sumburgh Head.....	51.5	45.1	50.4	48.7	2.07
Stornoway.....	57.0	46.0	53.3	51.0	2.09
Wick.....	58.8	45.7	53.1	50.4	1.75
Nairn.....	62.1	48.0	54.2	50.4	1.83
Aberdeen.....	61.3	47.6	54.7	50.9	1.88
Leith.....	64.5	48.1	56.0	52.6	1.84
Shields.....	60.9	49.1	54.9	51.9	1.82
York.....	66.2	48.3	56.1	52.7	2.45
Loughborough.....	68.7	49.0	58.1	54.1	2.43
Ardrossan.....	62.0	49.7	55.1	52.0	2.02
Donaghadee.....	60.9	48.9	55.0	52.8	2.04
Holyhead.....	61.7	51.6	55.6	53.1	2.10
Liverpool.....	63.0	50.9	56.6	52.6	1.96
Parsonstown.....	64.0	48.2	55.8	52.2	2.46
Valencia.....	61.7	50.7	56.8	53.8	3.42
Roche's Point.....	64.8	50.8	56.5	53.3	3.26
Pembroke.....	60.3	51.4	55.0	52.9	2.09
Scilly.....	61.1	53.0	57.2	55.0	1.94
Jersey.....	64.8	52.6	58.7	55.9	1.83
Hurst Castle.....	63.9	51.9	57.6	55.4	2.07
Dover.....	63.3	53.1	58.6	55.1	1.72
LONDON.....	60.3	50.0	59.2	54.8	2.12
Oxford.....	67.1	49.4	56.9	53.4	3.28
Cambridge.....	68.8	48.5	58.0	54.7	2.49
Yarmouth.....	62.2	51.4	56.9	54.1	2.02

NOTE.—The Temperature means are for the 15 years 1871-85, the Rainfall means are mainly those for the 20 years 1865-85.





# GENERAL SITUATION AT 8 A.M.

## PRESSURE

Highest, 30.0 in: to 30.1 in: and more, in a high pressure system, the eastern portion of which covers the Bay of Biscay, France, and the southern part of our Islands, 30.0 in: and more over South Germany.  
 Lowest, 29.7 in: and less, off the north of our Islands and the west of Norway, as well as in two small disturbances—one near Tunis, the other over the Elbe River.  
 Gradients moderate and rather irregular.  
 Barometer still falling in our Islands, rising over Sweden, Lapland, and the north of Norway.

## TEMPERATURE

Highest, 65° at Lisbon, 63° at Perpignan and Nice, 60° at Hunt Castle, 58° in London.  
 Lowest, 40° at Bodø, 44° at Hornsund, 46° at Gumburg, Had and Tander, 47° at Bosphorus, 49° at Brussels.  
 It has risen somewhat at several of the southern stations, changed irregularly elsewhere.

## WIND

Moderate from the W<sup>nd</sup> (WSW to WNW) in our Islands.  
 SW<sup>ly</sup> on the eastern shores of the North Sea, S<sup>ly</sup> in the west of Norway.  
 NE<sup>ly</sup> over the southwest of France and the Spanish Peninsula—variable elsewhere.

## WEATHER

Fine over Spain and the southwest of France and also in the west of Norway, cloudy, changeable, and showery over our Islands, the north of France, and the North Sea. Showers have been prevalent in the north and west and over Germany.

## SEA

Very little disturbed.

## PROBABLE CHANGES IN SYSTEM NOW PREVALENT

The distribution of pressure this morning, and the changes in progress, are favourable for varying W<sup>ly</sup> winds, showery weather generally and medium temperatures.

# FORECASTS

For the 24 hours ending at NOON on 3<sup>rd</sup> JUNE 1890.

## DISTRICTS.

## FORECASTS.

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

W<sup>ly</sup> and SW<sup>ly</sup> winds, moderate;  
 cloudy, showery  
 NW<sup>ly</sup> to SW<sup>ly</sup> winds, moderate;  
 showery, some bright intervals.

## DISTRICTS.

## FORECASTS.

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

SW<sup>ly</sup> and W<sup>ly</sup> winds, freshening;  
 cloudy, showery.

## WARNINGS

NONE ISSUED.

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



# YESTERDAY'S 2 P.M. REPORTS.

THER: WIND								THER: WIND							
	BAR:	D.	W.	D.	F.	WEA.	SEA		BAR:	D.	W.	D.	F.	WEA.	SEA
Skudesnaes ...	29.74	50	46	WSW	2	0	2	Holyhead ...	29.99	59	53	SW	3	bc	2
Sumburgh Head								Valencia ...							
Stornoway ...	29.72	53	54	NW	4	c	4	Scilly ...							
Aberdeen ...								Jersey ...	30.14	59	50	WNW	3	bc	3
Shields ...								Dungeness ...	30.02	56	51	WSW	4	c	8
Ardrossan ...								London ...							
Malin Head	29.88	51	51	W	5	odp	2	Yarmouth ...							
Mullaghmore								Rochefort ...	30.08	65	57	NW	4	c	9
Belmullet ...	30.04	56	53	WNW	3	0	*								

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

Weather fine over England as well as in Sweden, Denmark, Germany, central Russia and Algeria, Italy or overcast elsewhere, with showers over the northern parts of the United Kingdom and steady rain at Turin, Vienna, Rome, Naples and Odessa. Cloudy, showery weather, subsequently settling in over the greater part of the United Kingdom. Temperature highest 74° at Constantinople, 73° at Brindisi, 64° at Algiers, 68° at Palma, and 67° at Barcelona, above 60° over the whole of Italy, southern Europe and the Mediterranean. Lowest 40° at Bodø, 42° at Christiansund, 45° at Helsingfors and St. Petersburg, and 46° at Haparanda, Hangö and Breslau. Thermometer rising during day to 65° or a little more over central England, but daily maxima below 60° at several of our western and northern stations. Wind light or moderate from the SW<sup>nd</sup> over the greater part of the United Kingdom as well as over central Russia, the Baltic provinces and the extreme south of France. Moderate to strong from the NW<sup>nd</sup> over the southeast of England and the northwest of Scotland, and also over Scandinavia, Denmark, and east Germany. Light from the N. or NE over the greater part of France, and from the W. or NW over the central parts of the Mediterranean, variable over Spain and Eastern Europe. Barometer highest 30.1 ins. and upwards in an anticyclone lying over the Channel, the Bay of Biscay, the North of France and the south of our Islands. Lowest 29.2 ins. and less in a large depression over northern Russia, 29.7 ins. and less in another system lying off the north of Scotland, 29.8 ins. and less in a long area extending from Borken and the south of France to Servia. Barometer falling over western Europe during day.

### SUMMARY OF CHANGES IN THE WEATHER OVER THE BRITISH ISLANDS AND THEIR NEIGHBOURHOOD FROM THE 25<sup>th</sup> TO THE 31<sup>st</sup> MAY 1890

The dry weather which prevailed over the greater part of the country at the close of the previous week continued during the opening days of the period under review, after which the conditions became unsettled and showery in all districts. Smart thunderstorms were however, experienced over the southwest parts of the Kingdom on the 25<sup>th</sup>, and showers of snow and hail were reported in the north of Scotland on the 30<sup>th</sup>. During the first two or three days of the week an anticyclone lay over the north and northwest parts of the United Kingdom, while shallow depressions existed over the Bay of Biscay and France, the latter causing the thundery weather to which allusion has just been made. The winds were everywhere E<sup>ly</sup> or NE<sup>ly</sup> and temperature although high at first (above 75° at some of the English stations on the 25<sup>th</sup>) steadily gave way, the daily maxima of the 27<sup>th</sup> being below 60° in most part of the country. The weather was fair and dry over the greater part of the United Kingdom, but unsettled and thundery in France. On the 28<sup>th</sup> the anticyclone in the north receded to the west of our Islands, and the wind backed to the northward, while on the following day when the high pressure system moved southwards to France a further backing to the W<sup>nd</sup> was reported. A large depression now began to form over Scandinavia, its growth being followed shortly by the development of shallow secondary disturbances over our Islands, and a general change to showery weather. On the 30<sup>th</sup> the latter system moved away in an E<sup>ly</sup> direction, and N<sup>ly</sup> or NW<sup>ly</sup> winds again set in over the greater part of western Europe. At the close of the week, however, the barometer again began to fall, both on our northern and extreme southern coasts, and the general appearance was becoming very unsettled.

Temperature has been as a whole below the average for the time of year. On the 30<sup>th</sup> the daily maxima were below 60° at all but our extreme southern stations, & below 55° in the N., and in the course of the ensuing night the thermometer fell as low as 32° at Paris and 34° at Shields.

### 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 3<sup>rd</sup> June 1890.  
Issued by the Meteorological Office, 63, Victoria Street, London. R. H. SCOTT, Secretary.

STATIONS.	YESTERDAY EVENING.						8 A.M. TO DAY.										PAST 24 HOURS.		
	Barom: Reading at 3 30 P. and Sea Level.	TEMP. Dry.	WIND.		Weather.	Barometer. Reading at 3 30 P. and Sea Level.	SHADE TEMP.			WIND.		Weather.	Sea. (0 to 9.)	SHADE TEMP.		Amount of Rainfall.			
			Dir.	Force. (0 to 12.)			Dry.	Wet.	Difference from 8 a.m. yesterday.	Dir.	Force. (0 to 12.)			Max.	Min.				
SCANDINAVIA.																			
Haparanda ...	29.68	40	NE	2	bc	29.78	+29	45	43	-5	NE	2	o	*	52	39	—		
Hernösand ...	29.75	44	SEW	2	b	29.76	+10	46	43	+2	SEW	4	b	*	53	36	—		
Stockholm ...	29.75	50	S	2	c	29.80	+07	53	49	+1	S	2	o	*	61	41	—		
Wisby ...	29.80	48	S	4	b	29.84	+08	55	51	+7	SEW	4	c	*	61	45	—		
Bodö ...	29.71	41	W	2	b	29.74	+11	48	39	+5	ESE	2	b	1	45	32	—		
CHRISTIANIA.																			
Christiansund ...	29.63	49	NE	4	bc	29.55	-15	51	45	+6	ESE	3	c	2	52	41	—		
Skudenesnaes ...	29.66	50	SE	4	o	29.52	-18	49	48	-1	SE	7	r	4	54	48	0.20		
Christiania Fjord (Færder)	29.69	51	SE	3	b	29.67	-02	50	49	+4	SE	3	r	2	54	50	—		
Skagen (The Scaw)	29.69	51	S	0	o	29.71	-02	48	47	-2	SW	3	r	2	55	45	0.08		
Fanö ...	29.80	50	WSEW	4	c	29.78	+11	52	51	0	SW	5	o	*	55	48	0.12		
SCOTLAND.																			
Sumburgh Head ...	29.55	47	SE	1	o	29.47	-20	48	46	+2	NE	1	o	3	49	43	0.12		
Stornoway ...	29.39	54	SW	4	r	29.42	-28	54	54	+4	SW	3	o	3	54	45	0.40		
Wick ...	29.30	47	S	4	r	29.46	-24	55	54	+5	S	0	o	0	53	45	0.36		
Nairn ...	29.41	58	W	3	o	29.47	-27	55	56	+7	W	3	c	1	55	50	0.20		
Aberdeen ...	29.49	51	S	4	o	29.53	-22	60	58	+9	SEW	4	c	2	60	50	0.02		
ENGLAND.																			
Leith ...	29.59	54	W	3	r	29.61	-19	58	55	+5	SW	2	r	*	58	51	0.06		
Shields ...	29.62	57	SW	4	o	29.69	-13	58	56	+4	SW	3	o	2	60	51	0.01		
Spurn Head ...	29.83	58	WSEW	3	c	29.83	-02	60	58	+6	SW	5	c	4	60	52	—		
York ...	29.82	59	W	3	o	29.80	-06	57	53	+3	W	3	o	*	62	53	—		
Loughborough ...	29.90	60	W	2	c	29.89	-03	56	53	+2	WSEW	4	o	*	66	54	—		
IRELAND.																			
Ardrossan ...	29.62	56	WSEW	4	r	29.61	-20	52	51	0	SW	3	o	3	56	49	0.23		
Malin Head ...	29.61	53	SW	5	o	29.55	-26	54	53	+2	SW	4	o	2	55	52	0.38		
Mullaghmore ...	29.72	56	SW	5	r	29.60	-35	54	53	0	SW	6	o	4	57	53	0.58		
Belmullet ...	29.73	53	WSEW	3	o	29.56	-29	54	53	0	SW	6	o	*	57	53	0.78		
Donaghadee ...	29.70	61	WSEW	5	o	29.71	-16	56	55	+2	WSEW	5	o	3	64	53	0.06		
WIRELAND.																			
Liverpool (Bidston)	29.85	56	SW	4	o	29.82	-08	55	52	+3	SW	3	o	3	63	52	—		
Holyhead ...	29.86	53	SW	5	o	29.80	-13	53	52	-1	SW	5	o	5	59	51	0.01		
Parsonstown ...	29.85	58	SW	2	o	29.72	-23	56	53	+1	SW	2	o	*	55	52	0.02		
Valencia ...	29.92	56	SW	5	o	29.63	-40	53	54	0	SE	7	r	6	58	54	0.06		
Roche's Point...	29.95	56	WSEW	4	o	29.75	-28	53	53	0	SW	6	o	5	60	52	—		
FRANCE.																			
Pembroke (St. Ann's Hd.)	29.97	53	SW	4	c	29.89	-11	53	53	+1	S	4	o	4	55	51	0.01		
Scilly ...	30.02	56	SW	4	c	29.92	-13	55	54	0	SW	5	o	3	57	52	—		
Prawle Point ...	30.04	55	W	3	o	30.02	-01	53	51	-1	SW	4	o	3	57	51	—		
Jersey (St. Aubin's)	30.09	58	WSEW	3	b	30.07	0.0	57	53	0	SW	3	o	3	60	53	—		
Hurst Castle ...	30.02	56	WSEW	5	c	30.02	+04	55	53	-5	WSEW	5	c	3	62	53	—		
ENGLAND.																			
Dungeness ...	29.94	58	W	5	bc	30.00	+07	55	52	0	W	5	c	4	61	52	—		
London ...	29.95	60	WSEW	2	bc	29.98	+05	57	51	-1	SW	3	c	*	67	51	—		
Oxford ...	29.97	53	SW	3	b	29.97	+02	55	50	-1	SW	4	o	*	64	49	—		
Cambridge ...	29.91	61	WSEW	1	bc	29.94	+03	57	53	0	SW	1	o	*	67	48	—		
Yarmouth ...	29.88	62	W	2	c	29.91	+06	57	53	+1	WSEW	4	c	3	62	49	—		
FRANCE.																			
Cuxhaven ...	29.91	50	W	2	c	29.90	+09	51	50	+4	SW	3	o	*	54	49	0.24		
Berlin ...	29.91	56	W	2	c	30.04	+10	57	52	+5	W	3	o	*	63	52	—		
Wiesbaden ...	30.12	58	S	0	bc	30.13	+14	57	53	+8	W	2	c	*	64	46	—		
Munich ...	30.12	58	S	0	bc	30.21	+19	55	48	+5	SW	4	b	*	59	39	—		
The Helder ...	29.92	54	SW	2	c	29.93	+13	55	53	+1	SW	3	c	3	57	54	—		
FRANCE AND BELGIUM.																			
Brussels (3 a.m.)	30.03	56	W	4	c	30.03	+14	56	52	+7	SW	2	bc	*	62	46	0.08		
Cape Gris Nez	30.07	61	WSEW	2	c	30.13	+07	57	53	+6	E	1	c	4	59	52	—		
Paris ...	30.10	55	NW	2	r	30.08	0.0	56	51	+3	W	4	o	3	75	45	—		
Brest ...	30.12	57	W	3	c	30.09	-03	55	53	-1	S	0	o	2	63	52	—		
Lorient ...	30.11	62	NW	4	b	30.12	+03	48	45	-8	E	2	bc	2	60	46	—		
Rocheport ...	30.04	58	SE	1	b	30.09	+14	50	41	+5	NW	1	b	*	69	38	—		
Lyons ...	30.09	60	N	2	b	30.18	+14	57	51	+4	ESE	1	b	*	65	45	—		
Nice ...	29.94	60	SE	4	bc	30.12	+10	63	59	0	NE	2	b	1	72	53	—		
Perpignan ...	30.04	68	NW	4	b	30.15	+16	60	53	-3	W	2	bc	*	73	50	—		
Biarritz ...	30.15	63	N	3	b	30.13	-01	57	55	+1	SE	3	b	1	68	55	—		
SPAIN.																			
Corunna ...	30.03	63	NW	5	b	30.05	-14	60	57	+1	NE	1	b	1	66	46	—		
Lisbon ...	30.03	63	NW	5	b	30.07	-01	62	57	-3	N	4	b	5	73	53	—		

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

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



# WEATHER CHARTS

for 8 a.m. on Tuesday, 3<sup>rd</sup> June 1890

## BAROMETER, WIND AND SEA.

### EXPLANATION OF MAP

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

Changes since previous morning are stated in words.

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

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

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

○ = dead calm.

**SEA DISTURBANCE**—Where considerable, is shown thus:

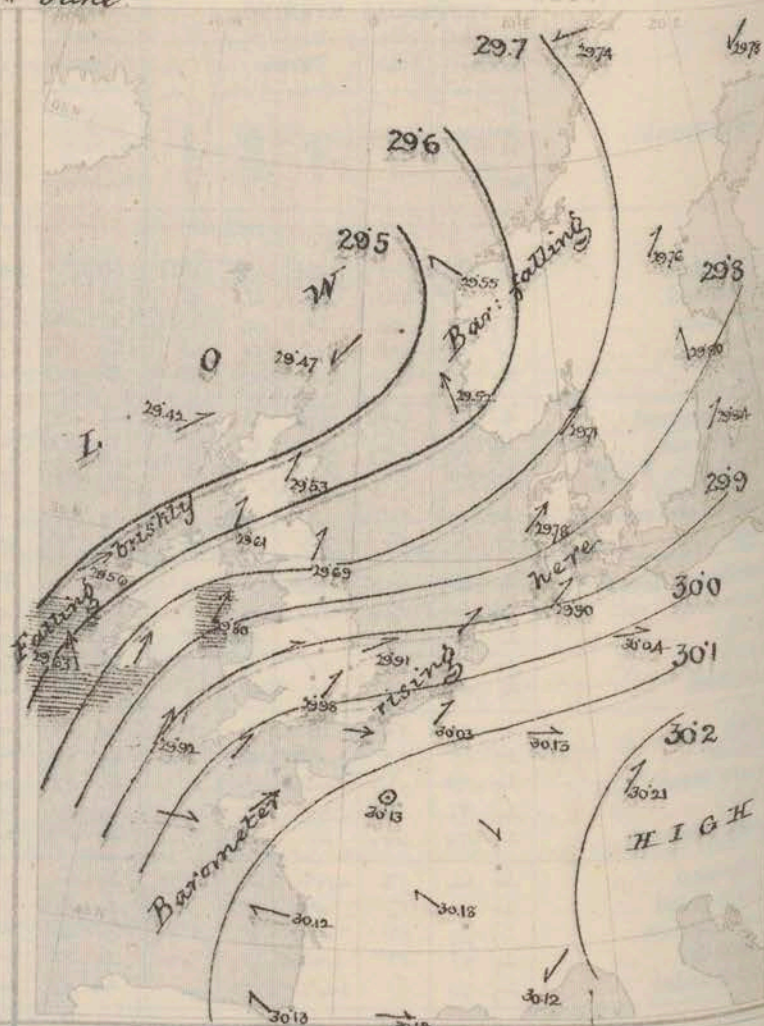
▨ = Rough. ▨ = High.

## MEAN HEIGHT OF THE BAROMETER

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

During the 15 Years: 1871—1885.

STATIONS.	MEAN READINGS.
Sumburgh Head	29.862
Stornoway	29.852
Wick	29.871
Nairn	29.880
Aberdeen	29.890
Leith	29.904
Shields	29.928
York	29.949
Loughborough	29.958
Ardrossan	29.969
Donaghadee	29.920
Holyhead	29.944
Liverpool	29.941
Parsonstown	29.952
Valencia	29.954
Roche's Point	29.953
Pembroke	29.952
Silly	29.982
Jersey	29.994
Hurst Castle	29.981
Dover	29.971
LONDON	29.976
Oxford	29.964
Cambridge	29.967
Yarmouth	29.963



## 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.

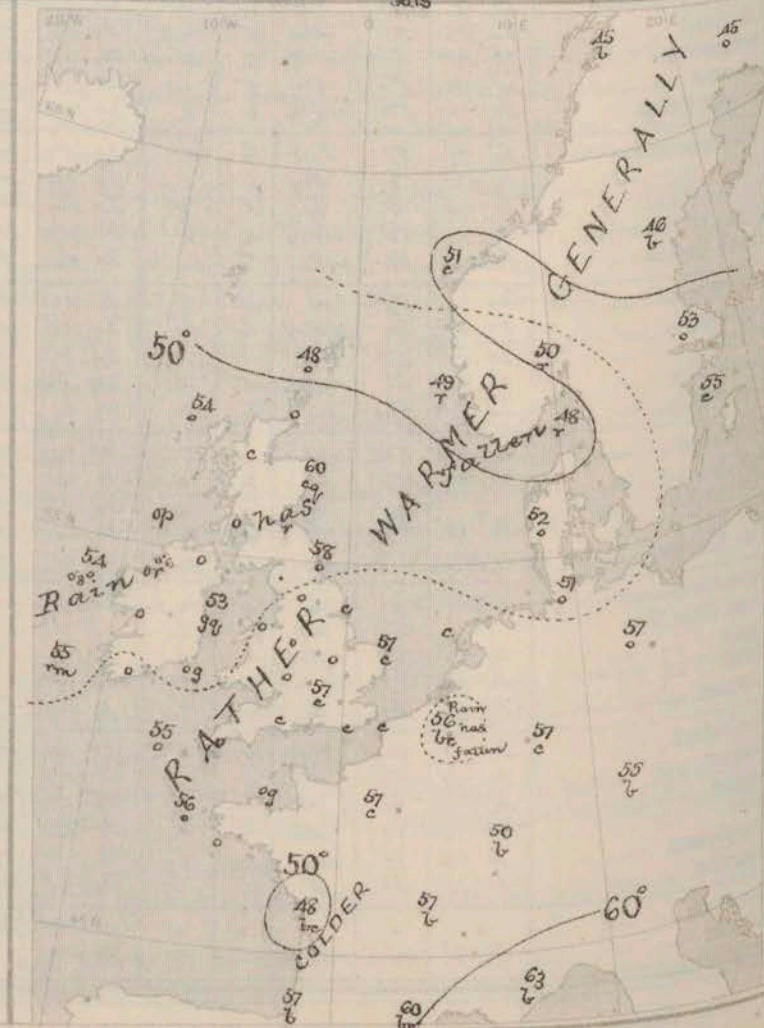
**WEATHER**—is shown by letters of the Beaufort Scale.

**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 June.)

STATIONS.	TEMPERATURE.				RAINFALL (Inches.)
	Daily Max.	Daily Min.	At 8 a.m.	At 8 p.m.	
Sumburgh Head	51.5	45.1	50.4	48.7	2.07
Stornoway	57.6	46.0	53.3	51.0	2.99
Wick	58.8	45.7	53.1	50.4	1.75
Nairn	62.1	48.0	54.2	50.4	1.88
Aberdeen	61.3	47.5	54.7	50.9	1.86
Leith	64.5	48.1	56.0	52.5	1.84
Shields	60.9	49.1	54.9	51.9	1.82
York	66.2	48.3	56.1	52.7	2.45
Loughborough	68.7	49.0	58.1	54.1	2.43
Ardrossan	62.0	49.7	55.1	52.0	2.62
Donaghadee	60.2	48.9	55.0	52.8	2.04
Holyhead	61.7	51.6	55.6	53.1	2.10
Liverpool	63.6	50.9	56.6	52.6	1.96
Parsonstown	64.0	48.2	55.8	52.2	2.46
Valencia	61.7	50.7	55.8	53.8	3.42
Roche's Point	64.8	50.8	56.5	53.2	3.26
Pembroke	60.3	51.4	55.0	52.9	2.09
Silly	61.1	53.0	57.2	55.0	1.94
Jersey	64.8	52.0	59.7	56.0	1.83
Hurst Castle	63.9	51.9	57.6	55.4	2.07
Dover	63.5	53.1	58.6	56.1	1.72
LONDON	69.3	50.6	59.2	54.8	2.12
Oxford	67.1	49.4	56.0	53.4	2.28
Cambridge	68.8	48.5	58.0	54.7	2.49
Yarmouth	62.2	51.4	56.9	54.1	2.02

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









# YESTERDAY'S 2 P.M. REPORTS.

	BAR:	THER:		WIND		F.	WEA.	SEA		BAR:	THER:		WIND		F.	WEA.	SEA
		D.	W.	D.	F.						D.	W.	D.	F.			
Isnaes ...	29.69	54	49	WdW	2		C	3	Holyhead ...	29.91	53	52	SW	4		og	3
inburgh Head ...	29.62	48	47	2	0		0	2	Valencia ...	29.98	53	53	SW	5		om	2
ornoway ...	29.48	48	48	0	6		P	5	Seilly ...	30.05	53	53	W	4		C	3
erdeen ...	29.65	50	47	ENE	4		0 P	3	Jersey ...	30.10	53	53	W	3		C m	4
ields ...	29.77	55	53	WdW	2		C	2	Dungeness ...	29.94	53	53	W	5		C	3
Ardrossan ...	29.68	52	51	SW	3		T	3	London ...	29.95	63	53	W	3		C	2
Malin Head ...	29.65	54	54	SW	6		OT	4	Yarmouth ...	29.87	60	53	WdW	2		C	2
Mullaghmore ...	29.77	53	53	SW	5		0 d p	3	Rochefort ...	30.12	66	60	NW	3		bc	2
Belmullet ...	29.78	56	53	WdW	3		0	*									

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

Weather fine in the east and southeast of Great Britain, as well as over Scandinavia, Denmark, Central Russia, and the greater part of Germany, France, Italy, and Algeria. Dull elsewhere with rain in the west of Ireland, and also at Archangel, Uleaborg, and Casan. Rain falling later at nearly all our western and northern stations, heavily in the west of Ireland.

Temperature highest 81° at Constantinople, 73° at Brindisi, 70° at Algiers, and 68° at Odessa, Palermo, and Sfax; above 60° over the greater part of Southern and Eastern Europe. Lowest 40° at Rode, 43° at Uleaborg, 44° at Hernösand and Kuopio, 45° at Chukiamund and Hango, and 46° at Jander, Breslau, and Scumburg Head. Daily maxima below 60° at several of our western and northern stations, but thermometer exceeding 65° in some parts of Central England.

Wind moderate from the SW<sup>d</sup> in the west of Ireland, as well as over Denmark, the Baltic, and Northern Russia. Light to fresh from the W<sup>d</sup> or NW<sup>d</sup> over the remainder of our Islands and also in Sweden, light from the SE<sup>d</sup> in the west of Norway. Light or moderate from the N<sup>d</sup> or NW<sup>d</sup> over Central Europe, and from the NE<sup>d</sup> or E<sup>d</sup> over France and Spain; variable in Italy and Algeria. Subsequently backing to the S<sup>d</sup> in the east of Scotland and to the SW<sup>d</sup> on all our western coasts.

Barometer highest, 30.1 ins: and upwards, in an anticyclone lying over the Bay of Biscay and north of Spain, and also in another system lying over Central Russia. Lowest 29.4 ins: and less, in a depression lying over the White Sea; 29.7 ins: and less, to the northward of our Islands, and also in two small disturbances situated, one near Paris and the other over the Skager Rack, 29.8 ins: and less, in a large area lying over Turkey and the south of Austria. New depressions approaching our extreme northern coasts later, and barometer falling quickly in Scotland.

### 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, 4<sup>th</sup> June, 1890.*  
*Issued by the Meteorological Office, 63, Victoria Street, London. R. H. SCOTT, Secretary.*

STATIONS.	YESTERDAY EVENING.					8 A.M. TO DAY.										PAST 24 HOURS.		
	BAROM.  Reading at 32° F. and Sea Level.	TEMP.  Dry.	WIND.		Weather.	BAROMETER.		SHADE TEMP.			WIND.		Weather.	Sea. (0 to 1.)	SHADE TEMP.			
			Dir.	Force. (0 to 12.)		Reading at 32° F. and Sea Level.	Difference from 8 a.m. yesterday.	Dry.	Wet.	Difference from 8 a.m. yesterday.	Dir.	Force. (0 to 12.)			Max.	Min.	Amount of Rainfall.	
SCANDINAVIA.																		
Haparanda ...	29.88	46	Z	0	r	29.88	+ 10	48	47	+ 3	W	2	0	*	54	37	0.16	
Hernösand ...	29.75	46	SSW	2	c	29.82	+ 06	52	49	+ 6	SSW	2	0	*	57	39	-	
Stockholm ...	29.88	54	SW	2	o	29.93	+ 13	57	54	+ 4	SW	2	0	*	61	41	-	
Wisby ...	29.89	51	SSW	4	o	29.94	+ 10	57	54	+ 2	W	4	0	*	63	45	-	
Bodö ...	29.69	55	E	2	b	29.72	- 02	54	44	+ 9	ENE	4	0	2	?	?	-	
CHRISTIANIA.																		
Christiansund ...	29.57	55	NE	3	bc	29.53	- 02	53	50	+ 2	ESE	1	r	1	57	?	0.12	
Skudesnaes ...	29.65	50	SSE	6	r	29.61	+ 09	50	49	+ 1	SSE	8	r	5	?	48	0.55	
Christiania Fjord (Færder) ...	29.72	51	SW	5	m	29.80	+ 13	50	49	0	?	5	m	4	52	50	0.16	
Skagen (The Scaw) ...	29.81	54	W	3	o	29.85	+ 14	53	51	+ 5	SW	2	0	2	55	48	0.16	
Fanö ...	29.93	52	SW	4	c	29.91	+ 13	57	54	+ 5	SSW	4	0	*	57	52	-	
SCOTLAND.																		
Sumburgh Head ...	29.45	49	NE	2	r	29.33	- 14	51	50	+ 3	W	2	0	3	52	46	0.40	
Stornoway ...	29.55	52	S	4	r	29.41	- 01	52	52	- 2	W	4	0	4	55	49	0.50	
Wick ...	29.40	55	S	2	r	29.45	- 01	58	55	+ 3	W	4	0	2	58	47	0.26	
Nairn ...	29.42	57	Z	0	c	29.46	- 01	58	54	- 1	WSW	3	0	1	64	52	0.05	
Aberdeen ...	29.52	56	SSW	4	o	29.52	- 01	62	56	+ 2	SSW	4	bc	3	62	50	0.19	
ENGLAND.																		
Leith ...	29.55	59	SW	3	r	29.58	- 03	57	54	- 1	WSW	2	0	*	62	51	0.02	
Shields ...	29.64	57	SSE	3	o	29.66	- 03	57	56	- 1	SSW	2	0	2	60	54	-	
Spurn Head ...	29.70	58	SSW	5	o	29.78	- 05	58	56	- 2	SSW	3	0	3	61	54	-	
York ...	29.75	57	SSW	3	o	29.73	- 07	59	56	+ 2	S	3	0	*	64	54	0.02	
Loughborough ...	29.83	58	SSW	4	c	29.78	- 11	57	55	+ 1	SSW	3	0	*	61	54	-	
IRELAND.																		
Ardrossan ...	29.46	52	S	4	r	29.61	- 00	53	51	+ 1	W	3	0	2	53	51	0.23	
Malin Head ...	29.19	54	SSE	7	or	29.56	+ 01	53	52	- 1	SSW	4	0	2	55	49	0.16	
Mullaghmore ...	29.23	56	SSW	7	r	29.61	+ 01	54	52	0	SSW	4	0	3	58	50	0.29	
Belmullet ...	29.24	53	W	5	c	29.61	+ 05	53	52	- 1	SW	3	0	*	57	51	0.39	
Donaghadee ...	29.44	52	SW	7	r	29.66	- 05	57	54	+ 1	WSW	3	bc	2	60	54	0.06	
Wales.																		
Liverpool (Bidston) ...	29.60	57	S	4	o	29.72	- 10	56	54	+ 1	SW	1	0	2	58	55	0.04	
Holyhead ...	29.61	52	S	7	r	29.71	- 09	53	53	0	W	1	0	3	53	51	0.04	
Parsonstown ...	29.45	50	SW	2	c	29.70	- 02	55	52	- 1	Z	0	0	*	61	50	0.09	
Valencia ...	29.54	56	SW	5	om	29.73	+ 10	55	51	0	S	2	0	3	57	50	0.49	
Roche's Point ...	29.57	55	WSW	7	o	29.73	- 02	54	51	- 1	WSW	3	0	4	58	50	0.35	
France.																		
Pembroke (St. Ann's Hd.) ...	29.69	52	S	7	r	29.76	- 13	53	53	0	SSW	3	0	5	55	52	0.22	
Scilly ...	29.76	55	S	7	m	29.76	- 16	54	54	- 1	W	2	0	4	58	51	0.05	
Prawle Point ...	29.40	54	E	5	o	29.82	- 20	54	54	+ 1	SW	3	0	3	55	52	0.13	
Jersey (St. Aubin's) ...	29.48	62	SSW	3	bc	29.90	- 17	56	56	- 1	SSE	3	0	3	65	55	0.40	
Hurst Castle ...	29.94	57	SW	5	c	29.86	- 16	55	53	0	SSW	6	0	3	59	54	0.25	
Germany.																		
Dungeness ...	29.96	57	WSW	4	bc	29.89	- 11	58	55	+ 3	SSW	4	bc	3	61	53	-	
London ...	29.43	57	SSW	4	o	29.85	- 13	57	55	0	S	2	0	*	62	54	-	
Oxford ...	29.87	55	SSW	3	c	29.83	- 14	56	54	+ 1	S	3	0	*	59	53	0.01	
Cambridge ...	29.89	58	SW	2	o	29.83	- 11	59	56	+ 2	SW	1	0	*	65	53	-	
Yarmouth ...	29.89	59	SW	4	bc	29.85	- 06	60	56	+ 3	SSW	4	bc	3	63	53	-	
Netherlands.																		
Cuxhaven ...	29.99	56	WSW	3	c	29.99	+ 09	56	55	+ 5	SW	3	0	*	62	?	-	
Berlin ...	30.06	64	SW	2	c	30.12	+ 08	63	58	+ 6	SSW	3	0	*	72	52	-	
Wiesbaden ...	*	*	*	*	*	30.12	- 01	57	54	0	WSW	1	0	*	70	48	-	
Munich ...	30.17	57	NE	1	b	30.22	+ 01	61	56	+ 6	Z	0	0	*	66	43	-	
The Helder ...	29.96	55	SW	2	c	29.93	- 00	58	55	+ 3	SSW	2	0	3	61	50	-	
Belgium.																		
Brussels (9 a.m.) ...	*	*	*	*	*	29.94	- 09	67	59	+ 11	SSE	2	bc	*	66	49	-	
Cape Gris Nez ...	?	59	W	3	b	?	?	59	54	+ 5	SW	4	bc	3	61	52	-	
Paris ...	30.04	69	SSW	3	bc	30.03	- 10	62	55	+ 5	SSW	3	0	*	72	47	-	
Brest ...	29.92	58	S	5	o	29.84	- 24	58	57	+ 2	SSW	4	0	5	61	46	0.20	
Lorient ...	30.01	59	SSW	3	o	29.91	- 18	58	57	+ 3	SSW	5	0	4	61	54	0.32	
France and Belgium.																		
Rochefort ...	30.04	66	WSW	3	b	30.04	- 08	60	59	+ 12	SSE	3	0	?	73	?	-	
Belfort ...	30.08	64	W	1	b	30.13	+ 04	62	46	+ 12	W	1	0	*	73	50	-	
Lyons ...	30.06	71	SSE	3	b	30.17	- 01	61	57	+ 4	SE	3	0	*	74	51	-	
Nice ...	30.14	67	S	3	bc	30.14	+ 05	64	56	+ 1	E	4	0	1	72	54	-	
Perpignan ...	30.13	64	E	2	c	30.18	+ 03	62	59	+ 2	NE	2	0	*	72	57	-	
Biarritz ...	30.02	70	NE	3	b	30.08	- 05	64	60	+ 7	SSE	1	bc	2	81	?	-	
Spain.																		
Coronina ...	*	*	*	*	*	30.15	+ 08	60	56	- 2	N	2	0	4	75	57	-	
Lisbon ...	30.07	63	W	5	b	30.15	+ 08	60	56	- 2	N	2	0	4	75	57	-	

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

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



# WEATHER CHARTS

for 8 a.m. on

WEDNESDAY, 4<sup>TH</sup> JUNE,

1890.

## BAROMETER, WIND AND SEA.

### EXPLANATION OF MAP.

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

Changes since previous morning are stated in words.

**WIND**—Arrows shew 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.

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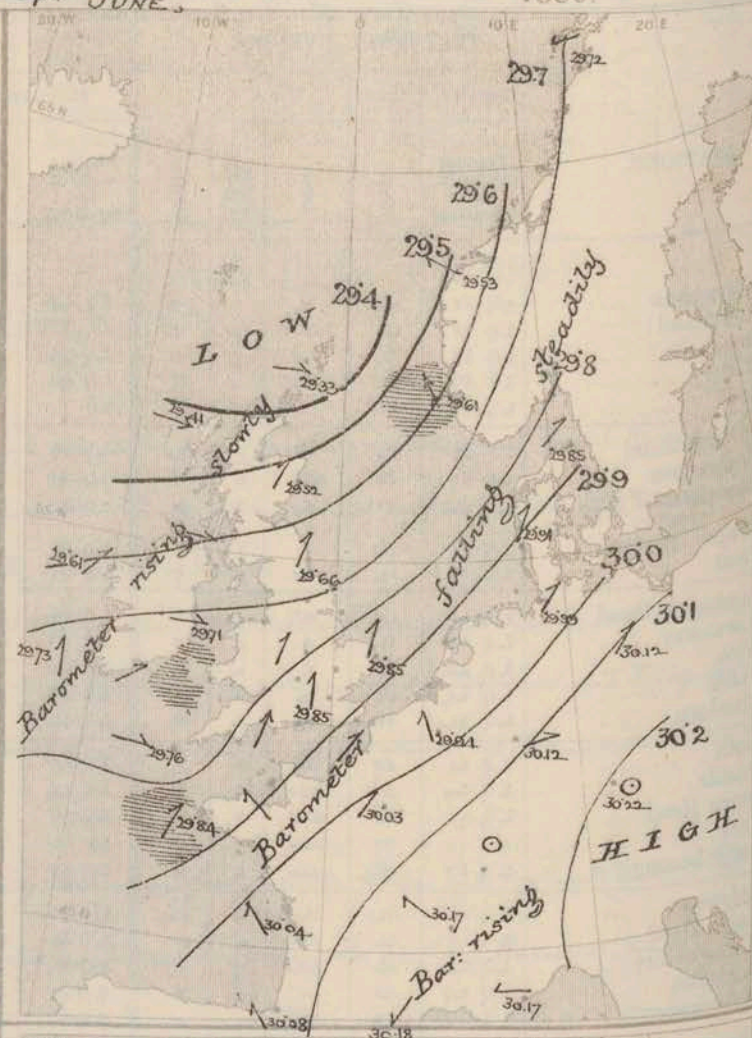
▨ = Rough. ▩ = High.

### MEAN HEIGHT OF THE BAROMETER

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

During the 15 Years; 1871—1885.

STATIONS.	MEAN READINGS.
Sumburgh Head .....	29.862
Stormoway .....	29.853
Wick .....	29.871
Nairn .....	29.880
Aberdeen .....	29.890
Leith .....	29.901
Shields .....	29.928
York .....	29.949
Loughborough .....	29.958
Ardrossan .....	29.909
Donaghadee .....	29.920
Holyhead .....	29.944
Liverpool .....	29.944
Parsonstown .....	29.952
Valencia .....	29.954
Roche's Point .....	29.952
Pembroke .....	29.952
Selly .....	29.982
Jersey .....	29.994
Hurst Castle .....	29.981
Dover .....	29.971
LONDON .....	29.976
Oxford .....	29.964
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## 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.

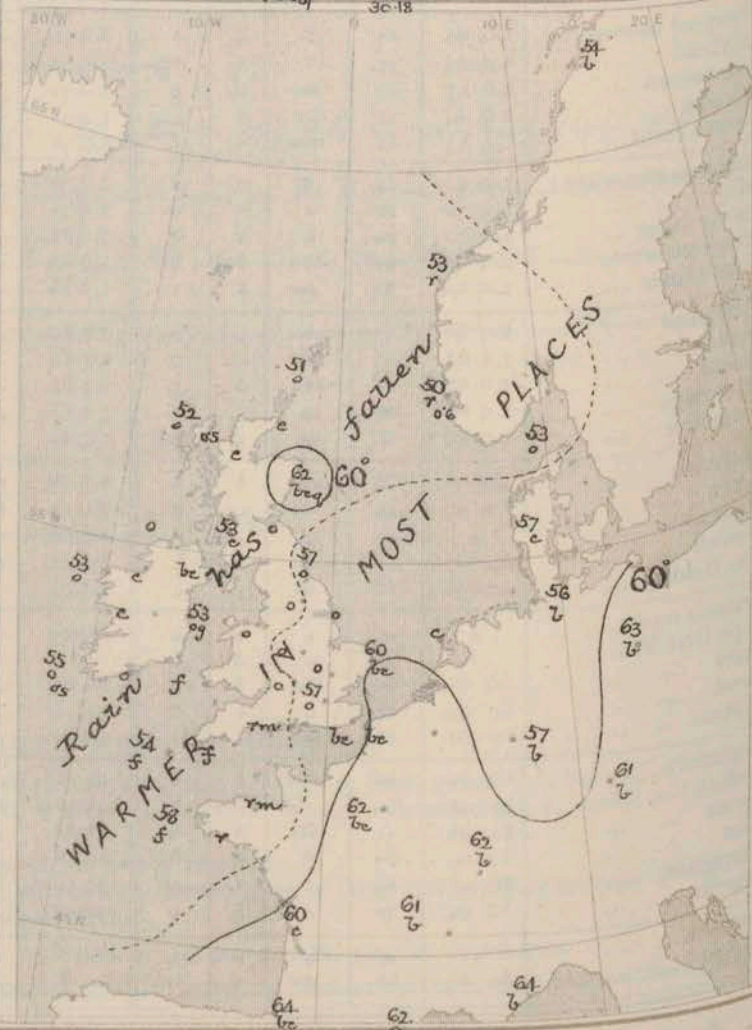
**RAINFALL**—A dotted line separates the districts in which rain has fallen from those where there has been none. Falls of 0.5 in. or more are quoted in figures.

### MEANS OF TEMPERATURE IN SHADE, AND RAINFALL.

(For the month of June.)

STATIONS.	TEMPERATURE.				RAINFALL (Inches.)
	Daily Max.	Daily Min.	at 8 a.m.		
			Dry.	Wet.	
Sumburgh Head.....	51.5	45.1	50.4	48.7	2.07
Stormoway .....	57.0	46.0	53.3	51.0	2.90
Wick .....	58.8	45.7	53.1	50.4	1.75
Nairn .....	62.1	48.0	54.2	50.4	1.88
Aberdeen .....	61.3	47.5	54.7	50.9	1.88
Leith .....	64.5	48.1	56.0	52.5	1.84
Shields .....	60.9	49.1	54.9	51.9	1.83
York .....	66.2	48.3	56.1	52.7	2.46
Loughborough .....	68.7	49.0	58.1	54.1	2.43
Ardrossan .....	62.0	49.7	55.1	52.0	2.02
Donaghadee .....	60.9	48.9	55.0	52.8	2.04
Holyhead .....	61.7	51.0	55.6	53.1	2.10
Liverpool .....	63.6	50.9	56.6	52.6	1.96
Parsonstown .....	64.0	48.2	55.8	52.2	2.46
Valencia .....	61.7	50.7	56.8	53.8	3.42
Roche's Point .....	64.8	50.8	59.5	53.3	3.26
Pembroke .....	60.3	51.4	55.0	52.9	2.09
Selly .....	61.1	54.0	57.2	55.0	1.94
Jersey .....	64.8	52.0	58.7	55.9	1.83
Hurst Castle .....	63.9	51.9	57.6	55.4	2.07
Dover .....	63.3	53.1	58.6	55.1	1.72
LONDON .....	69.3	50.6	59.2	54.8	2.12
Oxford .....	67.1	49.4	56.9	53.4	2.28
Cambridge .....	68.8	48.5	58.0	54.7	2.49
Yarmouth .....	62.2	51.4	56.9	54.1	2.02

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





# GENERAL SITUATION AT 8 A.M.

## PRESSURE

Highest, 30.0 ins: to 30.2 ins: over Germany and the southern half of France.  
 Lowest, 29.4 ins: and less, off the north of Scotland, and 29.75 ins: near Pembroke.  
 Gradient moderate. Barometer rising in west and north, falling a little in the east and south.

## TEMPERATURE

Highest, 64° at Nice and Biarritz, 63° at Berlin, 62° at Paris and Aberdeen.  
 Lowest, 50° at Hudsons, 51° at Lough Neagh, 52° at Stornoway, 53° at Malin Head, Ardara, Holyhead and Pembroke.  
 The daily maxima recorded yesterday were not much above 60° in any part of our Islands, but 81° were reached at Biarritz.

## WIND

S<sup>W</sup> or S<sup>W</sup><sup>2</sup> over the British Islands generally—moderate at our southern, northern, and eastern stations, light in the west.  
 In Norway it is SE<sup>1</sup> to E<sup>1</sup>, but over France and Germany it was very light and variable.

## WEATHER

Cloudy, more or less, over our Islands and the North Sea, with rain over Britain, the Channel, the southeast of England and in the coast of Norway, and much fog on our southwestern coasts. Rainfall has not been heavy.  
 Over France and Germany the weather is fine and bright.

## SEA

Moderate or rather rough on our southwestern coasts and off Ushant, slight or smooth elsewhere.

## PROBABLE CHANGES IN SYSTEM NOW PREVALENT

As the shallow depression in the southwest passes off, the weather in the south will probably clear up; but the general distribution of pressure is favourable for showery weather in most regions.

## FORECASTS

For the 24 hours ending at NOON on 5<sup>TH</sup> JUNE 1890.

### DISTRICTS.

### FORECASTS.

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

S<sup>W</sup> and S<sup>W</sup><sup>2</sup> winds; dull, unsettled, rain at times.

S<sup>W</sup> to W<sup>2</sup> winds, light; rainy, to fair, unsettled.

### DISTRICTS.

### FORECASTS.

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

S<sup>W</sup> and S<sup>W</sup><sup>2</sup> winds; changeable, rainy at times.

### WARNINGS

The SOUTH CONE has been lowered again this morning except in district 10.

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



# YESTERDAY'S 2 P.M. REPORTS.

	BAR:	THER:		WIND		WEA.	SEA		BAR:	THER:		WIND		WEA.	SEA
		D.	W.	D.	F.					D.	W.	D.	F.		
Skudesnaes ...	29.63	53	50	S	4	0	4	Holyhead ...	29.75	54	51	SSW	5	0 qm	6
Sumburgh Head	29.51	53	48	E	2	0	3	Valencia ...	29.47	57	56	SSW	8	0 m	3
Stornoway ...	29.40	52	52	S	3	7	3	Scilly ...	29.81	58	56	S	7	0	3
Aberdeen ...	29.59	59	56	SSW	3	0 p	2	Jersey ...	30.02	62	57	SE	3	0 c	4
Shields ...	29.71	59	56	SW	4	0 p	2	Dungeness ...	30.01	60	55	WSW	5	0 c	4
Ardrossan ...	29.60	53	52	S	4	0	3	London ...	29.96	60	53	SSW	4	0	3
Malin Head ...	29.36	54	52	S	5	0	4	Yarmouth ...	29.91	63	55	WSW	4	0	3
Mullaghmore ...	29.40	55	53	SSE	6	7 q	5	Rochefort ...	30.10	67	60	WNW	4	0	3
Belmullet ...	29.30	55	54	SSE	4	0 t	5								

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

Weather fair in the east of Scotland and the southeast of England, as well as over Western Russia, the northern parts of Scandinavia, and the greater part of France, Spain, and the Netherlands. Dull elsewhere, with rain in the west of Ireland, the south of Norway, and the north of Denmark, and also at Leith, Moscow, Hermannstadt and Nemours. Rain falling later in all the more western and northern parts of the United Kingdom.

Temperature highest 72° at Brindisi, 70° at Malta, 69° at Cagliari, La Galle and Constantinople, and 68° at Kharkov, Trieste and Spitz; as high as 60° at Aberdeen and Sumburgh Head, and 53° at Stain. Lowest 39° at Archangel, 42° at Uleaborg, 45° at Bodö and Kaparanda, 46° at Helsingfors, Stockholm, and 47° at Kaspio. Daily maxima very little above 60° in any part of the United Kingdom, but thermometer exceeding 70° at many of the French and German stations.

Wind strong from the S<sup>W</sup> in the west and south of Ireland, light to fresh from the S<sup>W</sup> in all other parts of our Islands, as well as over Iceland, Sweden, the Baltic, Denmark and the Netherlands. Light from between E. and N. over the greater part of France, Spain, as well as in Northern Italy; NW<sup>2</sup> over Austria and the southern parts of Russia and Italy. Subsequently increasing to a strong gale from the S<sup>W</sup> in the west of Ireland and to a moderate gale on other parts of our western coasts.

Barometer highest, 30.1 ins. and upwards, in a large anticyclone lying over France, Italy, South Germany, the west of Austria, and the greater part of Spain. Lowest, 29.5 ins. and less, in the north of Scotland; 29.8 ins. and less, in a large shallow area lying over the southern parts of Russia. Large and rather deep depression with minimum reading below 29.2 ins. subsequently advancing from the Atlantic to our extreme northwest coasts and barometer falling briskly at all our western stations.

### EXPLANATION OF COLUMNS GIVEN ON PAGE 1.

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

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

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

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



# DAILY WEATHER REPORT.

for *Thursday, 5<sup>th</sup> June, 1890.*  
*Issued by the Meteorological Office, 63, Victoria Street, London. R. H. SCOTT, Secretary.*

STATIONS.	YESTERDAY EVENING.					8 A.M. TO DAY.										PAST 24 HOURS.		
	BAROM.	TEMP.	WIND.		Weather.	BAROMETER.		SHADE TEMP.			WIND.		Weather.	Sea. (0 to 5.)	SHADE TEMP.		Amount of Rainfall.	
	Reading at 32° F. and Sea Level.	Dry.	Dir.	Force. (0 to 12.)		Reading at 32° F. and Sea Level.	Difference from 8 a.m. yesterday.	Dry.	Wet.	Difference from 8 a.m. yesterday.	Dir.	Force. (0 to 12.)			Max.	Min.		
SCANDINAVIA.																		
Haparanda ...	29.84	49	Z	0	T	29.85	-0.03	46	46	-2	SW	2	f	*	50	43	0.24	
Hernösand ...	29.80	51	S	2	O	29.90	+0.08	58	54	+6	SSW	2	G	*	52	46	0.00	
Stockholm ...	29.96	57	S	2	O	30.04	+0.11	64	57	+7	SSW	2	O	*	68	52	0.00	
Wisby ...	30.00	57	SSW	4	O	30.02	+0.08	60	55	+5	WSW	2	bc	*	72	50	0.00	
Bodö ...	29.67	50	E	2	O	29.81	+0.09	51	49	-3	SE	2	O	*	57	48	0.20	
CHRISTIANIA.																		
Christiansund	29.64	55	SW	2	C	29.81	+0.28	58	54	+5	SSW	2	C	*	59	52	0.08	
Skudesnaes ...	29.82	50	SSW	6	O	29.87	+0.26	53	50	+3	SSW	1	O	*	53	48	0.04	
Christiania Fjord (Færder)	29.89	51	WSW	4	M	29.96	+0.16	51	51	+1	SSW	2	T	*	54	50	0.08	
Skagen (The Scaw)	29.93	55	Z	0	O	29.90	+0.05	56	54	+3	SE	1	bc	*	61	52	0.00	
Fanø ...	29.94	55	SSW	2	C	29.91	-0.03	61	57	+4	SSW	4	C	*	63	54	0.00	
SCOTLAND.																		
Sumburgh Head	29.60	53	SW	1	O	29.66	+0.33	54	52	+3	SW	1	bc	*	56	46	0.01	
Stornoway ...	29.84	54	SW	5	O	29.82	+0.21	55	53	+3	SW	5	C	*	56	49	0.15	
Wick ...	29.60	58	NW	4	bc	29.67	+0.22	58	56	0	S	3	O	*	60	48	0.00	
Nairn ...	29.61	60	W	3	bc	29.66	+0.20	59	56	+3	NW	2	C	*	65	51	0.00	
Aberdeen ...	29.67	63	SSW	3	bc	29.74	+0.22	58	54	-4	SSW	2	bc	*	69	48	0.00	
ENGLAND.																		
Leith ...	29.69	63	W	1	C	29.75	+0.17	57	54	0	SSW	2	C	*	64	51	0.00	
Shields ...	29.73	63	SW	3	C	29.81	+0.15	56	53	-1	W	2	bc	*	66	47	0.00	
Spurn Head ...	29.78	60	S	3	O	29.88	+0.10	60	55	+5	SW	2	bcw	*	64	51	0.00	
York ...	29.77	65	WNW	1	C	29.88	+0.15	57	53	-2	WSW	3	C	*	66	49	0.00	
Loughborough	29.80	63	SW	2	O	29.93	+0.15	57	54	0	SW	3	Om	*	67	50	0.00	
IRELAND.																		
Ardrossan ...	29.69	56	S	3	C	29.75	+0.14	53	52	0	SW	3	O	*	59	52	0.00	
Malin Head ...	29.61	58	SSW	4	O	29.74	+0.18	50	50	-3	WSW	2	Or	*	60	49	0.27	
Mullagmore ...	29.64	58	SSW	5	O	29.76	+0.15	52	51	-2	SW	2	O	*	62	49	0.53	
Belmullet ...	29.62	55	SSW	4	O	29.78	+0.17	54	50	+1	W	3	B	*	58	50	0.29	
Donaghadee ...	29.71	59	SW	3	bc	29.78	+0.12	56	55	-1	SW	3	O	*	66	55	0.01	
Wales.																		
Liverpool (Bidston)	29.75	66	NW	1	C	29.86	+0.14	57	54	+1	SSW	2	O	*	65	50	0.01	
Holyhead ...	29.78	54	SSW	4	B	29.83	+0.12	54	54	+1	S	3	dm	*	62	51	0.05	
Parsonstown ...	29.71	62	Z	0	O	29.78	+0.08	59	57	+4	SW	2	C	*	67	54	0.02	
Valencia ...	29.74	56	SSW	4	Om	29.86	+0.13	56	55	+1	WSW	1	C	*	57	54	0.05	
Roche's Point...	29.80	56	SSW	4	O	29.84	+0.11	57	54	+3	W	4	bc	*	59	52	0.15	
Wales.																		
Pembroke (St. Ann's Hd.)	29.83	52	SSW	3	C	29.89	+0.13	54	54	+1	SSW	4	f	*	55	52	0.05	
Scilly ...	29.83	57	SW	3	O	29.95	+0.19	55	55	+1	WSW	5	O	*	58	54	0.03	
Prawle Point ...	29.87	53	SSW	3	f	30.00	+0.18	54	54	0	WSW	4	m	*	56	51	0.15	
Jersey (St. Aubin's)	29.91	58	SW	2	Om	30.09	+0.19	57	56	+1	SW	3	opgm	*	60	54	0.35	
Hurst Castle ...	29.87	56	WSW	3	m	30.01	+0.15	55	55	0	WSW	6	f d	*	58	53	0.47	
Wales.																		
Dungeness ...	29.88	56	SW	5	T	29.99	+0.10	55	54	-3	W	4	O	*	61	54	0.22	
London ...	29.85	59	SSW	1	Or	29.98	+0.13	57	55	0	SW	2	O	*	60	53	0.33	
Oxford ...	29.85	57	S	1	O	30.00	+0.17	56	54	0	SW	1	O	*	60	54	0.03	
Cambridge ...	29.83	58	S	1	T	29.95	+0.12	57	56	-2	SSW	1	O	*	60	52	0.12	
Yarmouth ...	29.86	59	SSW	2	Om	29.94	+0.09	58	57	-2	SW	2	C	*	61	54	0.21	
Wales.																		
Cuxhaven ...	29.99	67	NNE	1	B	29.96	-0.03	61	59	+5	SSW	2	B	*	70	?	0.00	
Berlin ...	30.01	73	Z	0	B	30.04	-0.03	69	60	+6	SSW	2	B	*	82	57	0.00	
Wiesbaden ...	*	*	*	*	*	30.10	-0.02	64	58	+7	WSW	2	bc	*	77	52	0.00	
Munich ...	30.13	63	NE	1	B	30.20	-0.02	62	57	+1	W	5	O	*	75	54	0.00	
The Helder ...	29.93	60	WSW	1	O	29.95	+0.02	57	56	-1	WSW	2	f	*	66	57	0.04	
Wales.																		
Brussels (9 a.m.)	*	*	*	*	*	30.01	+0.07	61	59	-6	WSW	2	O	*	77	56	0.04	
Cape Gris Nez	?	58	WSW	4	T	?	?	55	52	-4	WSW	5	O	*	73	50	0.24	
Paris ...	30.02	71	WSW	3	O	30.12	+0.09	62	60	0	SW	2	O	*	78	54	0.04	
Brest ...	29.93	57	WSW	3	O	30.06	+0.22	58	57	0	WSW	4	O	*	61	48	0.08	
Lorient ...	29.99	58	WSW	3	m	30.13	+0.22	57	57	-1	W	4	m	*	59	55	0.24	
Wales.																		
Rocheport ...	30.08	64	W	4	B	30.19	+0.15	60	59	0	NW	3	O	*	70	57	0.00	
Belfort ...	30.13	64	W	1	O	30.12	-0.01	65	53	+3	W	1	O	*	78	53	0.00	
Lyons ...	30.07	72	SE	2	B	30.17	0.00	64	59	+3	N	1	B	*	77	56	0.00	
Nice ...	30.11	69	SW	4	B	30.06	-0.11	68	59	+4	E	2	bc	*	75	61	0.00	
Perpignan ...	30.15	63	E	2	C	30.20	+0.02	69	61	+7	NW	2	C	*	85	56	0.04	
Biarritz ...	30.12	66	W	2	O	30.26	+0.18	64	60	0	SE	2	O	*	84	59	0.00	
Wales.																		
Corunna ...	*	*	*	*	*	30.25	+0.19	68	65	+6	S	1	B	*	73	59	0.00	
Lisbon ...	30.22	65	NW	4	B	30.28	+0.13	64	61	+4	Z	0	B	*	75	59	0.00	

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

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



# WEATHER CHARTS

for 8 a.m. on

Thursday, 5<sup>th</sup> June

1890.

## BAROMETER, WIND AND SEA.

### EXPLANATION OF MAP.

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

Changes since previous morning are stated in words.

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

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

○ = dead calm.

**SEA DISTURBANCE**—Where considerable, is shown thus:

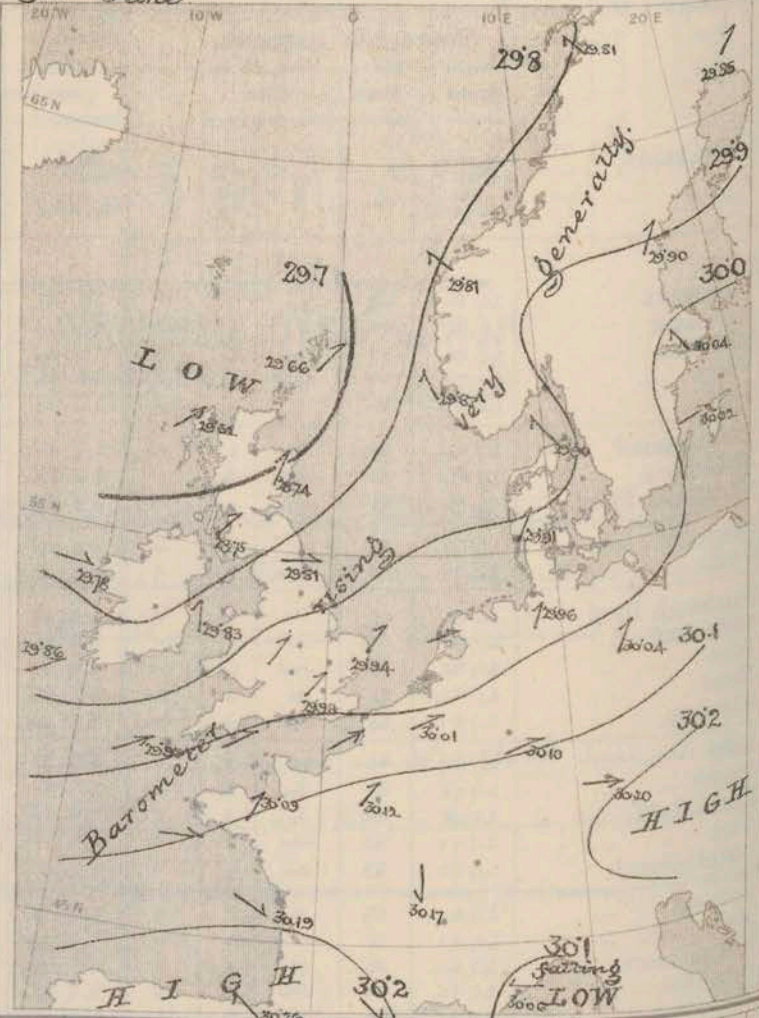
▨ = Rough. ▨ = High.

### MEAN HEIGHT OF THE BAROMETER

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

During the 15 Years: 1871—1895.

STATIONS.	MEAN READINGS.
	in.
Samburgh Head .....	29.862
Stornoway .....	29.852
Wick .....	29.874
Nairn .....	29.880
Aberdeen .....	29.890
Leith .....	29.904
Shields .....	29.928
York .....	29.949
Loughborough .....	29.958
Ardrossan .....	29.909
Donaghadee .....	29.920
Holyhead .....	29.944
Liverpool .....	29.944
Parsonstown .....	29.952
Valencia .....	29.954
Roche's Point .....	29.952
Pembroke .....	29.952
Scilly .....	29.982
Jersey .....	29.994
Hurst Castle .....	29.981
Dover .....	29.971
LONDON .....	29.976
Oxford .....	29.964
Cambridge .....	29.967
Yarmouth .....	29.963



## 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.

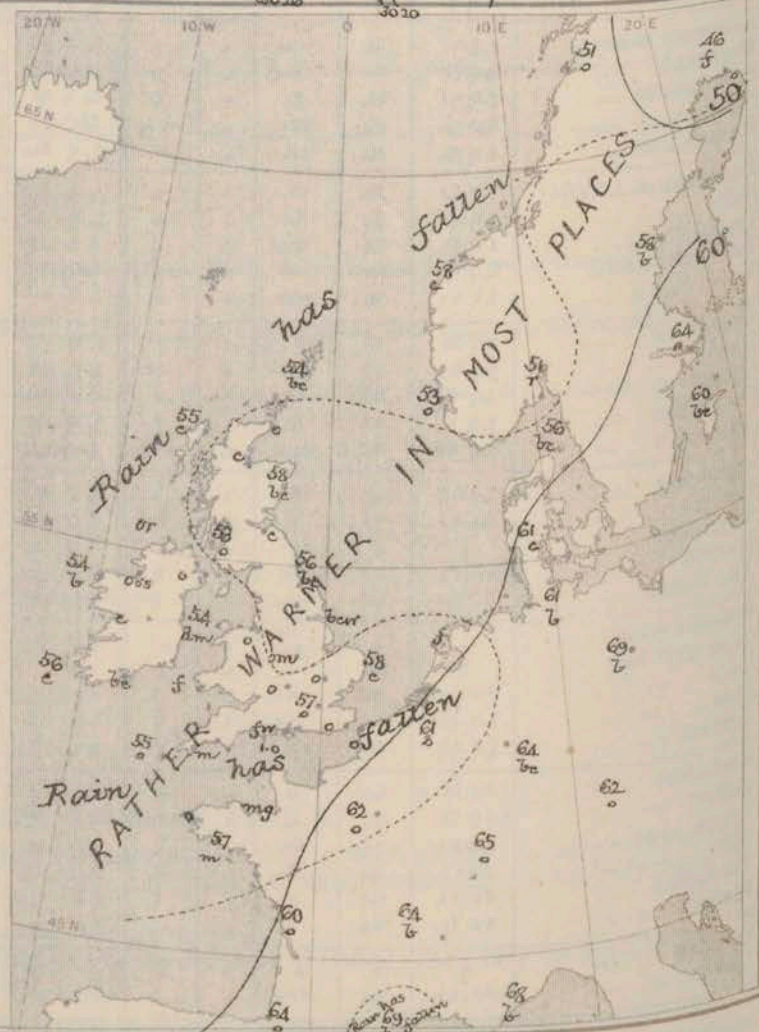
**WEATHER**—is shown by Letters of the Beaufort Scale.

**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 June.)

STATIONS.	TEMPERATURE.				RAINFALL (Inches.)
	Daily Max.	Daily Min.	Dry. at 8 a.m.	Wet.	
Samburgh Head.....	54.5	45.1	50.4	48.7	2.07
Stornoway .....	57.0	46.0	53.3	51.0	2.99
Wick .....	58.8	45.7	53.1	50.4	1.75
Nairn .....	62.1	48.0	54.2	50.4	1.88
Aberdeen .....	61.3	47.5	54.7	50.9	1.88
Leith .....	64.5	48.1	56.0	52.6	1.84
Shields .....	60.9	49.1	54.9	51.9	1.82
York .....	66.2	48.3	56.1	52.7	2.45
Loughborough .....	68.7	49.0	58.1	54.1	2.43
Ardrossan .....	62.0	49.7	55.1	52.0	2.62
Donaghadee .....	60.9	48.9	55.0	52.8	3.04
Holyhead .....	61.7	51.6	55.6	53.1	2.10
Liverpool .....	63.6	50.9	56.6	52.6	1.96
Parsonstown .....	64.0	48.2	55.8	52.2	2.46
Valencia .....	61.7	50.7	56.8	53.8	3.42
Roche's Point .....	64.8	50.8	56.5	53.3	3.26
Pembroke .....	60.3	51.4	55.0	52.9	2.09
Scilly .....	61.1	53.0	57.2	55.0	1.94
Jersey .....	64.8	52.6	58.7	55.9	1.83
Hurst Castle .....	63.9	51.9	57.6	55.4	2.07
Dover .....	63.3	53.1	58.6	55.1	1.72
LONDON .....	69.3	50.6	59.2	54.8	2.12
Oxford .....	67.1	49.4	56.9	53.4	2.28
Cambridge .....	68.8	48.5	58.0	54.7	2.49
Yarmouth .....	62.2	51.4	56.9	54.1	2.02

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





# GENERAL SITUATION AT 8 A.M.

## PRESSURE

Highest, 30.0 ins: to 30.2 ins: and more, over Spain, France, and Germany.  
 Lowest, 29.7 ins: and less, over the northern parts of Scotland and the Shetland Isles.  
 Gradients moderate over our Islands, but rather irregular.  
 Barometer risen generally, but not quickly.

## TEMPERATURE

Highest, 63° at Perpignan and Berlin, 68° at Nice, 65° at Belfort, 64° at Biarritz and Stockholm.  
 Lowest, 46° at Kapavanda, 50° at Malinthead, 51° at Rode, 53° at Androsow.  
 In London it was 57°, and did not rise above 60° during yesterday, at Paris, however, it rose to 70°, and at Perpignan to 85°.

## WIND

Very light and variable over Scotland; SW<sup>ly</sup> to W<sup>ly</sup> over Ireland and England; rather more W<sup>ly</sup> over France - SE<sup>ly</sup> in Norway.  
 It blows freshly at some of our Channel stations.

## WEATHER

Fine in the east of Scotland and in several parts of France and Germany; cloudy or overcast at most of our stations, with fog at Penzance, fog and drizzle at Hunt Castle, thunder at Perpignan.  
 Largest amounts of rainfall for yesterday, measured this morning, were 0.97 in at Hunt Castle, 0.63 in at Mullaghmore, 0.35 in at Jersey, and 0.33 in at London.

## SEA

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

## PROBABLE CHANGES IN SYSTEM NOW PREVALENT

A continuance of mild and rather showery weather seems likely (especially in the west and north), but with bright intervals.

## FORECASTS

For the 24 hours ending at NOON on 6<sup>th</sup> JUNE 1890.

### DISTRICTS.

### FORECASTS.

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

Varying SW<sup>ly</sup> winds, light; changeable, some showers.  
 SW<sup>ly</sup> and W<sup>ly</sup> breezes, light; changeable, showery, bright intervals.

### DISTRICTS.

### FORECASTS.

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

Wind backing towards S. again, light; changeable from fine to showery.

### WARNINGS

NONE ISSUED.

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



# YESTERDAY'S 2 P.M. REPORTS.

	BAR:	THER:		WIND		WEA.	SEA		BAR:	THER:		WIND		WEA.	SEA
		D.	W.	D.	F.					D.	W.	D.	F.		
Skudesnaes ...	29.75	52	50	S	6	0	5	Holyhead ...	29.46	62	56	SSW	3	6	5
Sumburgh Head ...	29.51	55	52	W	4	6	4	Valencia ...	29.74	56	53	S	5	om	4
Stornoway ...	29.52	54	54	W	4	0	4	Scilly ...	29.81	57	56	SW	2	6	3
Aberdeen ...	29.61	66	56	WSW	3	6c q	3	Jersey ...	29.59	60	59	SSE	3	0	3
Shields ...	29.71	63	60	SW	1	c	2	Dungeness ...	29.89	56	56	SW	4	1	3
Ardrossan ...	29.68	69	55	W	3	c	2	London ...	29.86	59	57	SSW	2	OT	3
Malin Head ...	29.62	56	53	S	4	0	3	Yarmouth ...	29.86	59	58	SSW	3	CT	3
Mullaghmore ...	29.64	60	54	SSW	5	c	4	Rochefort ...	30.08	68	62	NW	3	0	3
Belmullet ...	29.62	55	53	SW	4	0	*								

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

Weather cloudy or overcast over the greater part of the United Kingdom, as well as over Norway, Denmark, the Baltic, Central Russia, and some parts of Spain, Algeria and Sicily; fog reported at the mouths of the Bristol and English Channels, and rain falling over the central parts of the Channel and the northwest of France. Rain also reported in the west of Norway and at Moscow. Weather fine over the greater part of France, Italy, Central Europe and northern Russia. Rain falling during day at nearly all the English and Irish stations, the largest amount being 1.0 in. at Hurst Castle and 0.5 in. at Mullaghmore.

Temperature highest 75° at La Halle, 73° at Khindisi, 72° at Trieste, and 71° at Baglioni, above 60° over nearly the whole of Southern Europe, and also in many parts of Germany, the Netherlands and France. Lowest 47° at Hermanstad, 48° at Haparanda and Uleaborg, 50° at Hangö, Skudesnaes, and Vaasa, and 51° at Belmullet and Sumburgh Head. Daily maxima not exceeding 60° in the south and southwest of our islands, but thermometer rising above 65° at several of the more eastern and northern stations.

Wind moderate from the S<sup>nd</sup> or S<sup>W</sup><sup>nd</sup> over Ireland, England, the Netherlands, Denmark, Sweden, Germany, and the north of France. W<sup>nd</sup> in the north of Scotland; SE<sup>nd</sup> in the west of Norway, with a gale at Skudesnaes. Light from SE. or E. over the south of France and the northern parts of Spain and Italy, as well as in Tunis, N<sup>nd</sup> in Algeria and the south of Spain. SW<sup>nd</sup> winds subsequently becoming general over the whole of Western Europe.

Barometer highest, 30.2 ins. and upwards, in an anticyclone lying over Austria and South Germany; 30.1 ins. and upwards in nearly all parts of Central and Southern Europe. Lowest, 29.4 ins. and less, in a depression lying off the north of Scotland; 29.8 ins. and less in another disturbance over Central Russia. Shallow secondary system passing across England during day, but barometer rising in most parts of Western Europe.

### EXPLANATION OF COLUMNS GIVEN ON PAGE 1.

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

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

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

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



# DAILY WEATHER REPORT.

for *Friday, 6<sup>th</sup> June, 1890.*  
*Issued by the Meteorological Office, 63, Victoria Street, London. R. H. SCOTT, Secretary.*

Issued by the Meteorological Office, 63, Victoria Street, London. R. H. SCOTT, Secretary.																		
STATIONS.	YESTERDAY EVENING.					8 A.M. TO DAY.										PAST 24 HOURS.		
	BAROM.	TEMP.	WIND.		Weather.	BAROMETER.		SHADE TEMP.			WIND.		Weather.	Sea. (0 to 9.)	SHADE TEMP.		Amount of Rainfall.	
			Reading at 32° F. and Sea Level.	Dry.		Dirce.	Force. (0 to 12.)	Reading at 32° F. and Sea Level.	Difference from 8 a.m. yesterday.	Dry.	Wet.	Difference from 8 a.m. yesterday.			Dirce.	Force. (0 to 12.)		Max.
SCANDINAVIA.																		
Haparanda ...	29.98	51	S	2	b	30.10	+ 2.5	54	53	+ 8	SE	2	b	*	59	43		
Hernösand ...	29.99	52	Z	0	bc	30.04	+ 1.4	50	49	- 8	Z	0	c	*	70	50		
Stockholm ...	30.05	60	S	2	b	30.06	+ 0.2	62	57	- 2	SSW	2	c	*	73	54		
Wisby ...	30.04	62	S	2	b	30.01	- 0.1	66	59	+ 6	S	2	bc	*	70	52		
Bodö ...	29.97	51	Z	0	o	29.95	+ 1.4	60	51	+ 9	ENE	2	b	1	?	48		
BRITISH ISLANDS.																		
Christiansund	29.84	60	NE	2	bc	29.85	+ 0.4	57	53	- 1	N	1	b	1	66	54		
Skudesnaes ...	29.91	49	S	5	b	29.89	+ 0.2	50	49	- 3	SSE	2	b	4	54	48		
Christiania Fjord (Færdar)	29.91	54	SSE	2	b	30.00	+ 0.4	50	50	- 1	SSW	2	b	2	54	48	0.28	
Skagen (The Scaw)	29.95	54	Z	0	o	29.99	+ 0.9	53	53	- 3	Z	0	b	0	63	50	0.55	
Fanö ...	30.02	52	WSW	4	o	29.99	+ 0.8	56	55	- 5	S	4	b	*	64	46		
Sumburgh Head	29.75	52	Z	0	o	29.68	+ 0.2	51	51	- 3	Z	0	b	1	58	47	0.05	
Stornoway ...	29.72	53	SW	4	c	29.74	+ 1.2	46	45	- 9	NW	4	o	4	58	43	0.10	
Wick ...	29.74	54	NW	1	o	29.63	- 0.4	52	52	- 6	NW	4	b	2	62	49	0.22	
Nairn ...	29.73	60	W	1	bc	29.64	- 0.2	52	51	- 7	N	1	b	1	66	49	0.09	
Aberdeen ...	29.76	60	SSE	3	bc	29.69	- 0.5	52	51	- 6	S	3	ot	3	64	51	0.10	
Leith ...	29.79	63	W	1	c	29.67	- 0.8	58	55	+ 1	WSW	1	apm	*	67	53	0.25	
Shields ...	29.84	63	SSW	2	c	29.74	- 0.7	54	53	- 2	S	2	op	2	66	53	0.22	
Spurn Head ...	29.91	64	SW	3	c	29.82	- 0.6	55	54	- 5	S	4	b	3	64	53	0.07	
York ...	29.90	62	SW	1	o	29.78	- 1.0	54	54	- 3	S	1	b	*	66	53	0.32	
Loughborough	29.96	63	WSW	2	o	29.88	- 1.0	56	55	- 1	SSW	2	o	*	70	53	0.07	
GERMANY & HOLLAND.																		
Ardrossan ...	29.81	58	SSE	1	o	29.67	- 0.8	53	52	0	SW	2	b	2	58	52	0.35	
Malin Head ...	29.77	52	SE	4	o	29.78	+ 0.4	48	45	- 2	NNW	6	o	3	57	45	0.49	
Mullaghmore ...	29.75	55	SSE	1	ogt	29.90	+ 1.4	50	45	- 2	NW	6	bc	5	54	44	0.51	
Belmullet ...	29.70	54	SSW	2	t	29.97	+ 1.9	50	47	- 4	NW	3	b	*	54	44	0.70	
Donaghadee ...	29.81	54	SSE	2	c	29.75	- 0.3	49	48	- 7	NNW	7	o	5	63	49	0.39	
FRANCE AND BELGIUM.																		
Liverpool (Bidston)	29.91	61	SW	3	c	29.76	- 1.0	56	55	- 1	WSW	2	o	3	66	53	0.33	
Holyhead ...	29.90	54	SSW	5	mg	29.77	- 0.6	54	54	0	WSW	4	og	3	60	52	0.31	
Parsonstown ...	29.80	61	Z	0	o	29.92	+ 1.4	49	48	- 10	NW	2	c	*	67	48	0.23	
Valencia ...	29.86	56	S	6	qgm	30.01	+ 1.5	52	47	- 4	NNW	5	bcg	5	58	49	0.80	
Roche's Point...	29.89	55	SW	5	t	29.92	+ 0.8	53	49	- 4	N	6	c	4	60	50	0.45	
SPAIN & PORTUGAL.																		
Pembroke (St. Ann's Hd.)	30.00	54	SSW	4	o	29.85	- 0.4	54	53	0	SW	5	c	5	56	53	0.11	
Scilly ...	30.04	56	SSW	4	t	29.94	- 0.1	55	55	0	WSW	5	c	4	60	53	0.19	
Prawle Point ...	30.10	54	WSW	3	c	29.96	- 0.4	54	54	0	W	5	b	3	56	52	0.12	
Jersey (St. Aubin's)	30.16	59	W	4	cm	30.04	- 0.5	58	57	+ 1	W	5	ogm	4	61	55	0.14	
Hurst Castle ...	30.09	56	WSW	6	om	29.95	- 0.6	55	55	0	SW	6	odm	4	59	54	0.04	
ITALY.																		
Dungeness ...	30.06	57	WSW	5	bc	29.96	- 0.3	56	54	+ 1	WSW	6	o	4	60	53	0.01	
London ...	30.04	62	SW	3	o	29.93	- 0.5	57	55	0	SW	2	o	*	66	54	0.01	
Oxford ...	30.03	58	SW	3	o	29.87	- 1.3	57	55	+ 1	SWW	3	o	*	64	54	0.04	
Cambridge ...	30.03	63	SW	2	c	29.86	- 0.9	59	57	+ 2	SW	3	o	*	67	53	0.05	
Yarmouth ...	29.99	63	WSW	3	c	29.92	- 0.2	57	55	- 1	SSW	4	c	3	64	54	0.01	
AFRICA.																		
Cuxhaven ...	30.04	72	NW	4	c	30.06	+ 0.2	66	60	- 3	N	3	b	*	86	61	0.08	
Berlin ...	*	*	*	*	*	30.13	+ 0.3	64	61	0	NW	2	o	*	77	54	0.47	
Wiesbaden ...	30.20	63	Z	0	c	30.22	+ 0.2	63	59	+ 1	NW	4	c	*	68	55		
Munich ...	30.06	57	SW	2	bc	29.99	+ 0.4	56	54	- 1	SW	2	o	3	61	54		
The Helder ...	30.06	57	SW	2	bc	29.99	+ 0.4	56	54	- 1	SW	2	o	3	61	54		
ASIA.																		
Brussels (S.M.)	*	*	*	*	*	30.02	+ 0.1	59	55	- 2	SW	1	o	*	70	53		
Cape Gris Nez	?	56	W	4	o	?	?	56	54	+ 1	SW	4	o	4	73	52		
Paris ...	30.16	70	WSW	2	bc	30.13	+ 0.1	60	57	- 2	S	2	o	*	77	53	0.08	
Brest ...	30.16	57	NW	2	o	30.04	- 0.2	57	56	- 1	NW	4	m	4	72	54		
Lorient ...	30.22	59	WSW	2	o	30.11	- 0.2	58	57	+ 1	WSW	4	t	4	61	55	0.08	
AUSTRALIA.																		
Rochefort ...	30.26	63	WSW	3	o	30.21	+ 0.2	62	62	+ 2	WSW	4	m	*	70	64		
Belfort ...	30.15	66	W	1	bc	30.15	+ 0.3	66	54	+ 1	NW	1	b	*	81	55		
Lyons ...	30.17	71	N	3	b	30.20	+ 0.3	65	60	+ 1	N	2	bc	*	75	58		
Nice ...	30.02	67	SW	2	bc	30.03	- 0.3	60	60	+ 7	NE	2	b	0	74	63		
Perpignan ...	30.18	75	NW	4	b	30.19	- 0.1	71	61	+ 2	NW	3	b	*	81	64		
Biarritz ...	30.30	68	NNE	4	b	30.30	+ 0.4	61	59	- 3	ESE	3	bcm	2	75	57		
NEW ZEALAND.																		
Corunna ...	*	*	*	*	*	30.32	+ 0.7	66	64	- 2	SW	1	o	2	77	64		
Lisbon ...	30.26	69	NW	4	b	30.28	+ 0.0	67	62	+ 3	NNE	3	b	4	81	61		

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

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



# WEATHER CHARTS

for 8 a.m. on Friday, 6<sup>th</sup> June 1890.

## BAROMETER, WIND AND SEA.

### EXPLANATION OF MAP.

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

Changes since previous morning are stated in words.

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

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

→ = forces 5 to 7; → = forces 1 to 4.

○ = dead calm.

**SEA DISTURBANCE**—Where considerable, is shown thus:

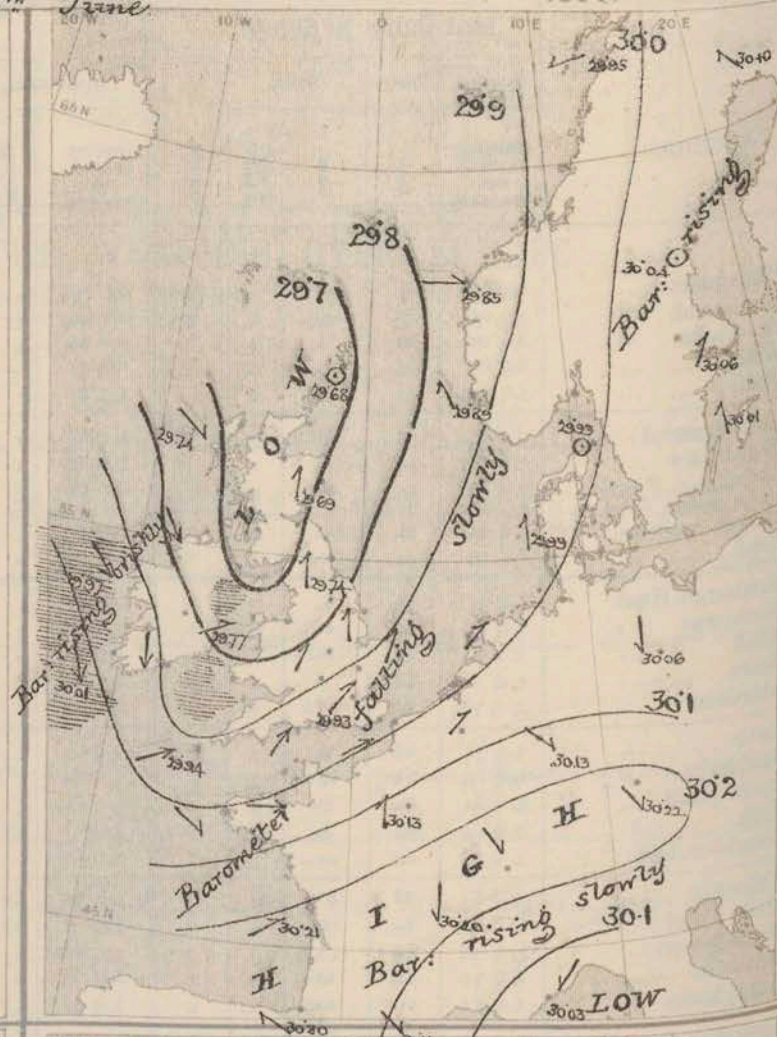
▨ = Rough. ▨ = High.

### MEAN HEIGHT OF THE BAROMETER

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

During the 15 Years: 1871—1885.

STATIONS.	MEAN READINGS.
	ins.
Sumburgh Head .....	29.862
Stornoway .....	29.852
Wick .....	29.871
Nairn .....	29.880
Aberdeen .....	29.890
Leith .....	29.904
Shields .....	29.928
York .....	29.949
Loughborough .....	29.958
Ardrossan .....	29.909
Donaghadee .....	29.920
Holyhead .....	29.944
Liverpool .....	29.944
Parsonstown .....	29.952
Valencia .....	29.954
Roche's Point .....	29.952
Pembroke .....	29.952
Silly .....	29.982
Jersey .....	29.994
Hurst Castle .....	29.981
Dover .....	29.971
LONDON .....	29.976
Oxford .....	29.964
Cambridge .....	29.967
Yarmouth .....	29.963



## 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.

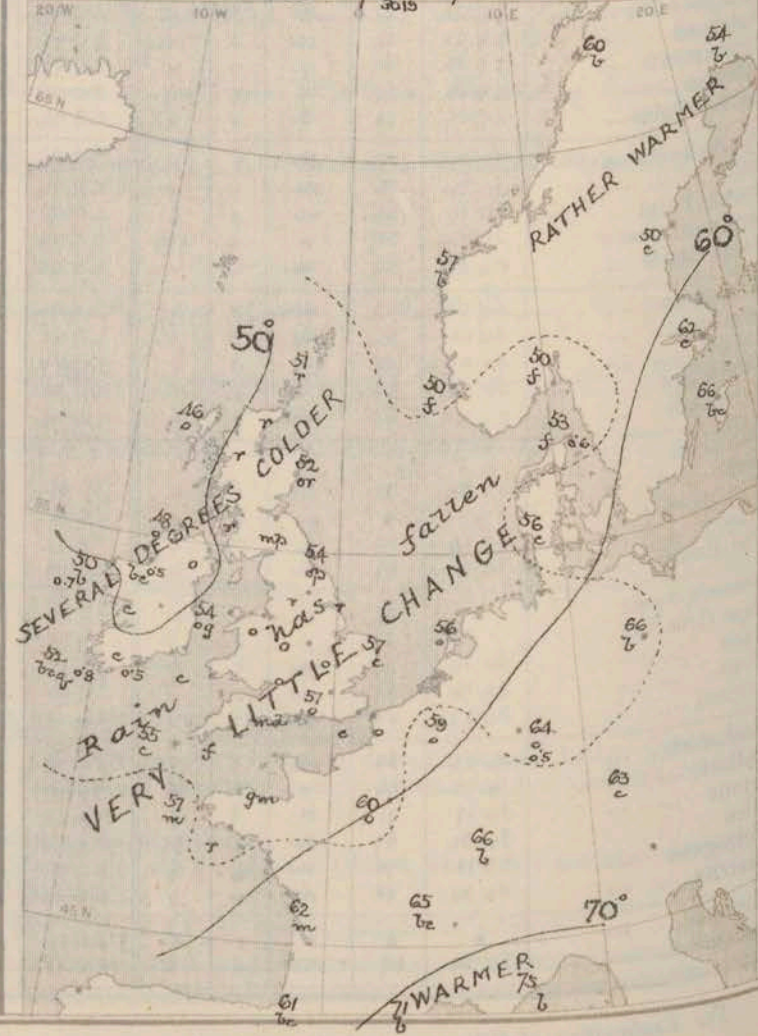
**RAINFALL**—A dotted line separates the districts in which rain has fallen from those where there has been none. Falls of 0.5 in. or more are quoted in figures.

### MEANS OF TEMPERATURE IN SHADE, AND RAINFALL.

(For the month of June.)

STATIONS.	TEMPERATURE.				RAINFALL. (Inches.)
	Daily Max.	Daily Min.	At 8 a.m.		
			Dry.	Wet.	
Sumburgh Head.....	54.5	45.1	50.4	48.7	2.07
Stornoway .....	57.0	46.0	53.3	51.0	2.99
Wick .....	58.8	45.7	53.1	50.4	1.75
Nairn .....	62.1	48.0	54.2	50.4	1.88
Aberdeen .....	61.3	47.5	54.7	50.9	1.88
Leith.....	64.5	48.1	56.0	52.5	1.84
Shields.....	60.9	49.1	54.9	51.9	1.82
York .....	66.2	48.3	56.1	52.7	2.45
Loughborough .....	68.7	49.0	58.1	54.1	2.43
Ardrossan .....	62.0	49.7	55.1	52.0	2.62
Donaghadee.....	60.9	48.9	55.0	52.8	2.04
Holyhead.....	61.7	51.6	55.6	53.1	2.10
Liverpool .....	63.6	50.9	56.6	52.6	1.96
Parsonstown .....	64.0	48.2	55.8	52.2	2.46
Valencia .....	61.7	50.7	56.8	53.8	3.42
Roche's Point .....	64.8	50.8	56.5	53.3	3.26
Pembroke.....	60.3	51.4	55.0	52.9	2.09
Silly .....	61.1	53.0	57.2	55.0	1.94
Jersey .....	64.8	52.0	58.7	55.9	1.83
Hurst Castle .....	63.9	51.9	57.6	55.4	2.07
Dover .....	63.3	53.1	58.6	55.1	1.72
LONDON .....	69.3	50.6	59.2	54.8	2.12
Oxford .....	67.1	49.4	56.9	53.4	2.23
Cambridge .....	68.8	48.5	58.0	54.7	2.49
Yarmouth .....	62.2	51.4	56.9	54.1	2.02

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





# GENERAL SITUATION AT 8 A.M.

## PRESSURE

Highest, 30.3 in: to 30.0 in: over Spain, France, and Germany; and rather above 30.0 in: at Faeroe Islands and over the Baltic.  
Lowest, 29.7 in: and less, in a depression over Scotland.

## TEMPERATURE

Gradients moderate but variable. Barometer falling in the east and northeast, rising fast in the west.  
Highest, 70° and more, over the south of France, 67° at Lisbon, 66° at Marseilles, Belfort and Berlin, 64° at New York, 60° at London.  
Lowest, 46° at Stomaway, 48° at Malin Head, 48° at Enniscorthy and Donaghadee.  
In London the temperature is 57°, and has not been below 54° all night.  
The thermometer is apparently falling decidedly in the west.

## WIND

Moderate to light from S. or SW. over the North Sea, coast of Scotland, and the whole of England.  
Strong from the NW<sup>nd</sup> over Ireland and the Hebrides, where it was S<sup>3</sup> last night.  
A moderate gale is reported at Donaghadee.

## WEATHER

Mild and dull over Brittany, England, and the eastern half of Scotland, with rain in several places; in Ireland it is clearing up after being very rainy during the night. Fog is very prevalent on the northeastern shores of the North Sea.

## SEA

Rough at several western stations, moderate in the Channel, smooth on our northeast and east coasts.

## PROBABLE CHANGES IN SYSTEM NOW PREVALENT

As the disturbance in the north passes off a temporary clearance of the sky is likely to take place, and temperature will probably be low over Great Britain tonight.

## FORECASTS

For the 24 hours ending at NOON on 7<sup>th</sup> JUNE 1890.

### DISTRICTS.

### FORECASTS.

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

NW<sup>2</sup> to SW<sup>2</sup> winds, changeable, rainy to fair, cold.

Same as No 5.

S<sup>2</sup> and SW<sup>2</sup> winds, dull, mild, rainy, then NW<sup>2</sup> winds, colder and finer, but not settled.

### DISTRICTS.

### FORECASTS.

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

NW<sup>2</sup> winds, squally and showery; then finer and wind backing again.

### WARNINGS

NONE ISSUED

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



# YESTERDAY'S 2 P.M. REPORTS.

	BAR:	THER:		WIND		WEA.	SEA		BAR:	THER:		WIND		WEA.	SEA
		D.	W.	D.	F.					D.	W.	D.	F.		
Skudesnaes ...	29.89	54	51	SSW	4	0	4		Holyhead ...	29.87	58	56	SW	3	5
Sumburgh Head ...	29.74	54	50	W	0	0	3		Valencia ...	29.90	58	56	SSW	5	3
Stornoway ...	29.69	55	54	SW	4	c	4		Scilly ...	30.03	59	57	SW	4	3
Aberdeen ...	29.76	61	55	SSW	4	c	3		Jersey ...	30.15	61	56	N	4	c
Shields ...	29.83	64	60	SSW	2	0	2		Dungeness ...	30.08	59	57	WSW	6	m
Ardrossan ...	29.79	55	54	WSW	3	c	2		London ...	30.01	64	59	SSW	3	cp
Malin Head ...	29.78	57	53	W	2	bc	2		Yarmouth ...	29.98	62	58	WSW	3	c
Mullaghmore ...	29.82	56	51	WSW	2	c	2		Rocheport ...	29.23	68	64	WSW	4	bc
Belmullet ...	29.82	56	51	SSW	2	0	*								

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

Weather fine in the eastern parts of Great Britain and the west and south of Ireland, as well as in Sweden, Denmark, and the greater part of Central and Southern Europe. B. elsewhere, with fog at some of our own southern stations, as well as at Haparanda and Helsinki, and rain at Alsborg, Malin Head, Linnæa and Malta. Heavy rain falling later in the west of our Islands (0.8 in at Valencia, 0.7 in at Belmullet, and 0.5 in at Mullaghmore and Rocheport) and showers in most other parts of the Kingdom.

Temperature highest 77° at Trieste, 73° at Barcelona, 72° at Lybourn and Brindisi, and 70° at Raballe; above 60° over Central and Southern Europe generally and just reaching that point at Spinnth. Lowest 46° at Haparanda, 50° at Malin Head, 51° at Bodo and Vaerder, and 51° at Hango, Kier and Mullaghmore. Subsequently rising to between 65° and 70° in many parts of the United Kingdom, and to 80° or more at some of the French and German stations, the highest reading of all being 86° at Berlin.

Wind light or moderate from the SW<sup>nd</sup> over the greater part of our Islands, as well as in Ireland, Denmark, Germany, and the north of France. Light from SE in Norway. Rather variable over the southern and southeastern countries of Europe, but chiefly N<sup>th</sup>; variable in Algeria. Subsequently backing to the S<sup>th</sup> in the west of Ireland, and increasing to a strong breeze or moderate gale.

Barometer highest 30.2 ins. and upwards in an anticyclone lying over Spain and the southwestern parts of France, 30 ins. and upwards, over Austria and Eastern Germany. Lowest 29.7 ins. and less, in a shallow depression lying to the northward of Scotland, 30 ins. and less, over the south of Russia, and the central parts of the Mediterranean. New depression beginning to approach the west of Ireland in evening, and barometer falling at many of our western stations.

### EXPLANATION OF COLUMNS GIVEN ON PAGE 1.

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

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

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

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



# DAILY WEATHER REPORT.

for *Saturday, 7<sup>th</sup> June, 1890.*  
 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.										LAST 24 HOURS.		
	BAROM.	TEMP.	WIND.			BAROMETER.		SHADE TEMP.			WIND.				SHADE TEMP.			
	Reading at 3 <sup>rd</sup> P. and Sea Level.	Dry.	Dir.	Force. (0 to 12.)	Weather.	Reading at 3 <sup>rd</sup> P. and Sea Level.	Difference from 8 a.m. yesterday.	Dry.	Wet.	Difference from 8 a.m. yesterday.	Dir.	Force. (0 to 12.)	Weather.	Sea. (0 to 2.)	Max.	Min.	Amount of Rainfall.	
SCANDINAVIA.																		
Haparanda ...	30.05	59	Z	0	bc	30.01	- .04	59	57	+ 8	Sw	2	b	*	66	43	-	
Hernösand ...	30.00	53	SSW	2	bc	29.98	- .02	55	52	+ 5	SSW	2	o	*	64	45	-	
Stockholm ...	30.04	61	SE	2	o	29.95	- .11	64	56	+ 2	NE	2	o	*	79	45	-	
Wisby ...	30.01	59	NNE	2	bc	29.96	- .15	55	53	- 11	NE	4	c	*	78	52	-	
Bodö ...	29.89	56	Z	0	o	29.91	- .02	57	58	- 3	N	1	c	1	52	32	0.16	
CHRISTIANIA.																		
Christiansund ...	29.80	63	NE	2	bc	29.89	+ .04	59	54	+ 2	ESE	1	b	0	66	54	-	
Skudesnæs ...	29.86	54	SSW	4	T	29.91	+ .02	52	52	+ 2	N	2	b	3	50	50	0.28	
Christiania Fjord (Færder) ...	29.93	63	Z	0	m	29.91	- .02	53	51	+ 3	Z	0	m	1	55	50	-	
Skagen (The Scaw) ...	29.93	55	Z	0	b	29.90	- .03	57	55	+ 4	S	1	o	0	59	50	-	
Faßø ...	29.91	53	S	1	c	29.89	- .10	56	56	0	ENE	2	o	*	63	?	0.08	
SCOTLAND.																		
Sumburgh Head ...	29.82	47	WNW	4	c	30.08	+ .40	50	46	- 1	WNW	4	b	4	53	44	0.13	
Stornoway ...	29.97	53	W	4	bc	30.21	+ .47	51	49	+ 5	W	4	bc	4	54	40	0.04	
Wick ...	29.94	46	NW	3	c	30.18	+ .55	52	48	0	NW	4	bc	2	58	40	0.07	
Nairn ...	29.97	53	NW	3	c	30.22	+ .58	50	47	- 2	W	1	b	1	57	41	0.03	
Aberdeen ...	29.94	54	NW	5	bc	30.21	+ .52	52	46	0	WNW	4	bc	3	61	40	0.09	
ENGLAND.																		
Leith ...	29.96	52	ESE	1	o	30.26	+ .59	55	48	- 3	WNW	2	b	*	63	40	0.06	
Shields ...	29.94	50	NW	4	T	30.25	+ .51	52	47	- 2	W	2	bc	2	65	43	0.18	
Spurn Head ...	29.88	58	W	6	c	30.24	+ .42	53	49	- 2	WNW	3	bc	3	63	48	0.03	
York ...	29.89	60	WNW	3	c	30.27	+ .49	52	47	- 2	WNW	3	b	*	67	47	0.01	
Loughborough ...	29.99	56	WSW	4	b	30.29	+ .46	53	48	- 3	W	3	b	*	69	45	0.01	
IRELAND.																		
Ardsrossan ...	30.02	54	W	5	b	30.29	+ .62	50	46	- 3	W	3	b	2	55	40	-	
Malin Head ...	30.08	51	NW	4	b	30.30	+ .52	51	46	+ 3	NW	1	b	2	52	48	-	
Mullaghmore ...	30.17	52	WNW	5	c	30.34	+ .44	52	48	+ 2	W	1	c	2	54	43	-	
Belmullet ...	30.18	52	NE	3	bc	30.33	+ .36	53	47	+ 3	E	1	b	*	53	43	-	
Donaghadee ...	30.08	55	N	4	bc	30.33	+ .58	53	49	+ 4	NNE	3	b	1	56	47	-	
WALLES.																		
Liverpool (Bidston) ...	30.05	53	WNW	6	b	30.31	+ .55	53	48	- 3	NW	3	bc	3	58	43	-	
Holyhead ...	30.11	52	N	3	b	30.34	+ .57	58	52	+ 4	WNW	1	b	2	58	48	-	
Parsonstown ...	30.17	56	NW	2	bc	30.26	+ .34	52	49	+ 3	Z	0	c	*	59	44	-	
Valencia ...	30.23	54	WNW	2	bc	30.30	+ .29	55	50	+ 3	ESE	3	o	3	57	50	-	
Roche's Point ...	30.20	58	WNW	4	b	30.33	+ .41	55	51	+ 2	ESE	3	bc	3	60	49	-	
SCOTLAND.																		
Pembroke (St. Ann's Hd.) ...	30.16	55	NW	3	b	30.35	+ .50	54	52	0	NE	1	c	2	56	48	-	
Scilly ...	30.18	56	WNW	4	bc	30.31	+ .37	55	54	0	SSW	2	o	3	57	53	-	
Prawle Point ...	30.14	54	NW	5	c	30.36	+ .40	54	51	0	SSW	1	c	1	58	45	-	
Jersey (St. Aubin's) ...	30.15	57	WNW	5	cpam	30.37	+ .33	58	50	0	NW	3	b	3	59	49	0.01	
Hurst Castle ...	30.04	63	W	5	bc	30.34	+ .39	56	51	+ 1	WNW	3	b	3	65	44	-	
ENGLAND.																		
Dungeness ...	29.94	57	WSW	6	bc	30.22	+ .26	54	50	- 2	NW	3	c	2	60	44	-	
London ...	29.97	66	W	2	c	30.28	+ .35	54	48	- 3	NW	2	bm	*	68	47	-	
Oxford ...	30.10	53	NW	3	b	30.31	+ .44	52	46	- 5	WNW	3	b	*	65	43	-	
Cambridge ...	29.96	60	W	3	b	30.26	+ .40	56	50	- 3	WNW	1	bc	*	72	47	-	
Yarmouth ...	29.88	61	WNW	1	c	30.21	+ .29	54	49	- 3	N	4	b	4	65	49	0.28	
FRANCE.																		
Cuxhaven ...	29.97	57	Z	0	o	29.92	- .05	59	58	- 1	WSW	2	o	*	62	57	0.06	
Berlin ...	29.97	69	N	2	c	29.89	- .07	60	58	- 6	NW	3	T	*	75	59	0.24	
Wiesbaden ...	*	*	*	*	*	30.06	- .07	59	56	- 5	W	2	o	*	75	57	0.04	
Munich ...	30.11	62	?	1	o	30.15	- .07	58	54	- 5	W	5	o	*	72	52	0.43	
The Helder ...	29.91	57	Sw	2	T	30.06	+ .07	52	50	- 4	WNW	3	o	3	61	52	0.04	
NETHERLANDS.																		
Brussels (S.A.M.) ...	*	*	*	*	*	30.08	+ .03	50	48	- 9	WNW	2	o	*	57	50	0.04	
Cape Gris Nez ...	?	55	WSW	5	o	?	?	52	48	- 4	NW	5	o	5	61	50	-	
Paris ...	30.09	69	WNW	3	c	30.26	+ .13	56	51	- 4	NW	2	bc	*	71	53	0.08	
Brest ...	30.23	58	NW	4	c	30.34	+ .10	56	54	- 1	Z	0	o	2	68	48	-	
Lorient ...	30.24	59	W	4	b	30.39	+ .28	56	51	- 2	NNE	1	bc	3	59	52	-	
SPAIN.																		
Rocheport ...	30.26	61	WNW	5	o	30.36	+ .15	56	52	- 6	WNW	4	c	*	64	50	0.28	
Belfort ...	?	67	W	1	o	?	?	62	52	- 4	W	1	bc	*	60	51	-	
Lyons ...	30.21	62	N	2	o	30.27	- .07	58	54	- 7	WNW	3	o	*	76	54	-	
Nice ...	30.01	73	?	?	c	29.96	- .07	67	61	- 8	Sw	3	b	*	81	?	-	
Perpignan ...	30.19	76	NW	4	o	30.27	+ .08	64	57	- 7	NW	5	bc	*	84	63	-	
Biarritz ...																		
PORTUGAL.																		
Coruna ...	*	*	*	*	*													
Lisbon ...	30.21	75	WNW	5	b	30.21	- .07	75	67	+ 8	NNE	3	b	2	58	66	-	

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

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



# WEATHER CHARTS

for 8 a.m. on

Saturday, 7<sup>th</sup> June.

1890.

## BAROMETER, WIND AND SEA.

### EXPLANATION OF MAP.

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

Changes since previous morning are stated in words.

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

their bars and feathers refer to force thus—

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

→ = forces 6 to 7; → = forces 1 to 4.

○ = dead calm.

**SEA DISTURBANCE**—Where considerable, is shown thus:

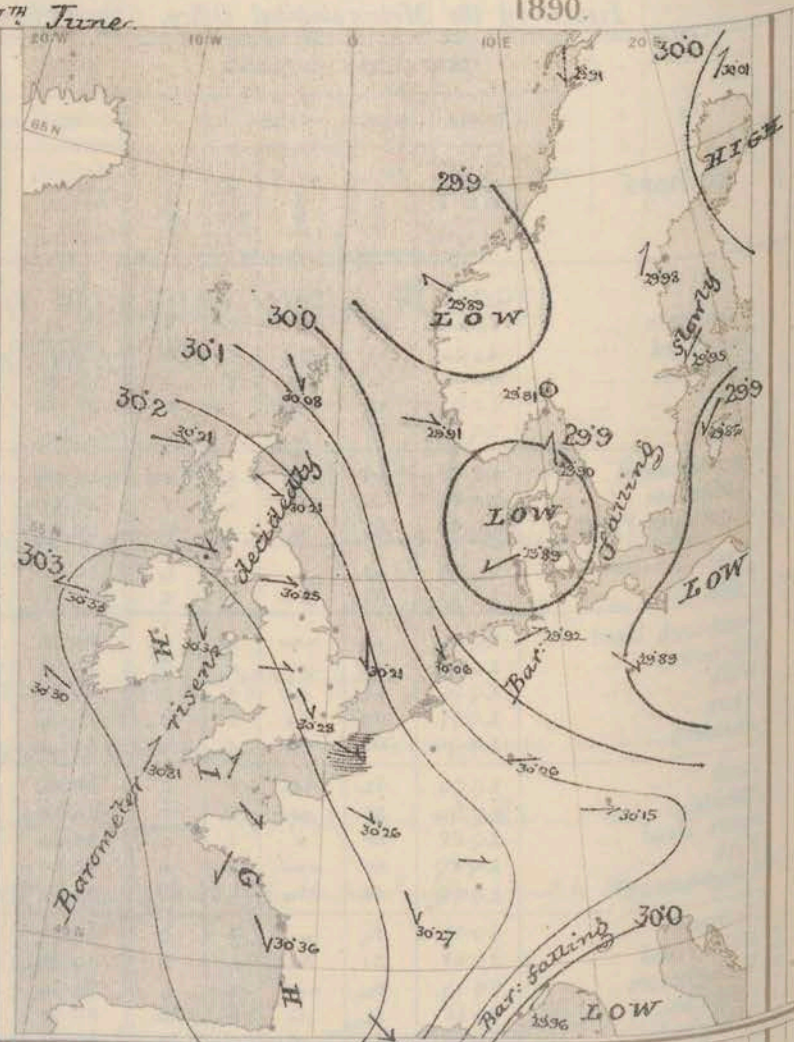
▨ = Rough. ▨ = High.

### MEAN HEIGHT OF THE BAROMETER

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

During the 15 Years: 1871—1885.

STATIONS.	MEAN READINGS.
	<i>ins.</i>
Sumburgh Head .....	29.862
Sornoway .....	29.852
Wick .....	29.874
Nairn .....	29.880
Aberdeen .....	29.890
Leith .....	29.904
Shields .....	29.928
York .....	29.949
Loughborough .....	29.958
Ardrossan .....	29.909
Donaghadee .....	29.920
Holyhead .....	29.944
Liverpool .....	29.944
Parsonstown .....	29.952
Valencia .....	29.954
Roche's Point .....	29.962
Pembroke .....	29.952
Scilly .....	29.982
Jersey .....	29.994
Hurst Castle .....	29.981
Dover .....	29.971
LONDON .....	29.976
Oxford .....	29.964
Cambridge .....	29.967
Yarmouth .....	29.963



## 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.

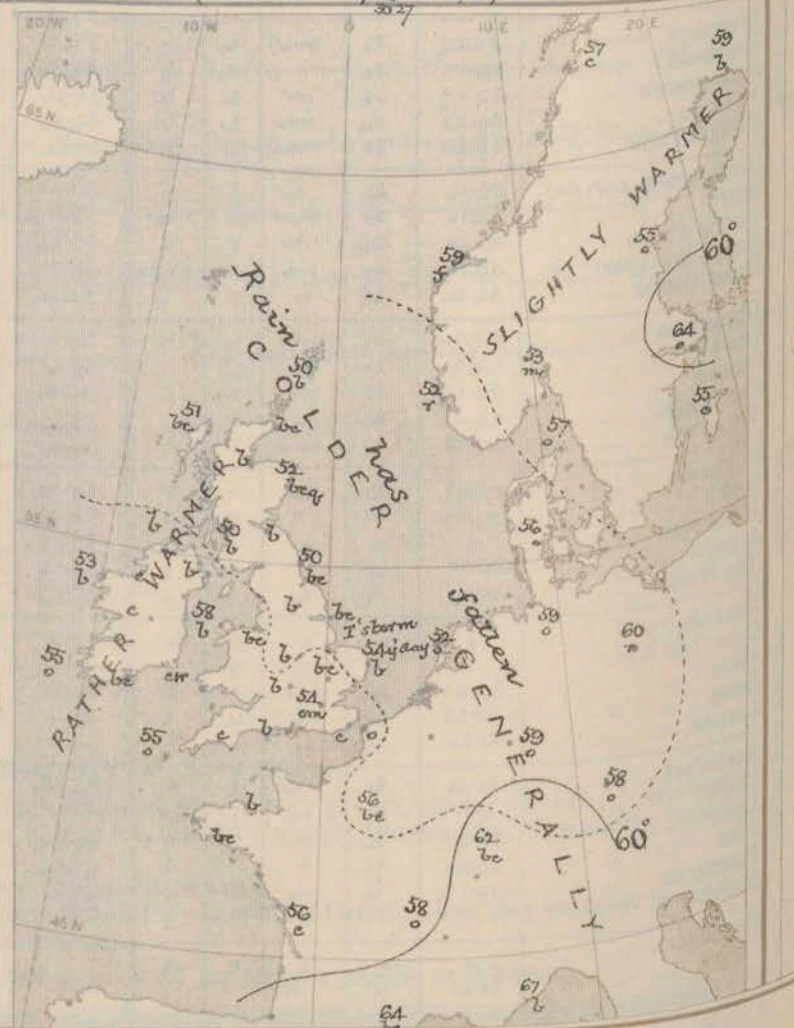
**RAINFALL**—A dotted line separates the districts in which rain has fallen from those where there has been none. Falls of 0.5 in. or more are quoted in figures.

### MEANS OF TEMPERATURE IN SHADE, AND RAINFALL.

(For the month of June.)

STATIONS.	TEMPERATURE.				RAINFALL (Inches.)
	Daily Max.	Daily Min.	at 8 a.m.		
			Dry.	Wet.	
Sumburgh Head.....	54.5	45.1	50.4	48.7	2.07
Sornoway .....	57.6	46.0	53.3	51.0	2.99
Wick.....	58.8	45.7	53.1	50.4	1.75
Nairn .....	62.1	48.0	54.2	50.4	1.88
Aberdeen .....	61.3	47.5	54.7	50.9	1.88
Leith .....	64.5	48.1	56.0	52.5	1.84
Shields .....	60.9	49.1	54.9	51.9	1.82
York .....	66.2	48.3	56.1	52.7	2.45
Loughborough .....	63.7	49.0	58.1	54.1	2.43
Ardrossan .....	62.0	49.7	55.1	52.0	2.62
Donaghadee.....	60.9	48.9	55.0	52.8	2.04
Holyhead .....	61.7	51.6	55.6	53.1	2.10
Liverpool .....	63.6	50.9	56.6	52.6	1.96
Parsonstown .....	64.0	48.2	55.8	52.2	2.46
Valencia .....	61.7	50.7	56.8	53.8	3.42
Roche's Point .....	64.8	50.8	56.6	53.3	3.26
Pembroke.....	60.3	51.4	55.0	52.9	2.09
Scilly .....	61.1	53.0	57.2	55.0	1.94
Jersey .....	64.8	52.6	58.7	55.9	1.83
Hurst Castle .....	63.9	51.9	57.5	55.4	2.07
Dover .....	63.3	53.1	58.6	55.1	1.72
LONDON .....	69.3	50.6	59.2	54.8	2.12
Oxford .....	67.1	49.4	56.9	53.4	2.28
Cambridge .....	68.8	48.5	58.0	54.7	2.49
Yarmouth .....	62.2	51.4	56.6	54.1	2.02

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





# GENERAL SITUATION AT 8 A.M.

## PRESSURE

Highest, 30.2 in. to 30.3 in. and more, in an anticyclone covering the British Islands, France, Spain, and the Bay of Biscay.  
 Lowest, 29.9 in. and less, in disturbances lying over Germany and the eastern shores of the North Sea.  
 Gradient moderate over the North Sea and Holland, slight elsewhere.  
 Barometer rising decidedly over Great Britain, slightly in Ireland, but falling over Germany, Denmark and Sweden.

## TEMPERATURE

Highest, 75° at Limerick, 67° at Nice, 65° at Berlin, 59° at Copenhagen, Copenhague and Christiansund.  
 Lowest, 50° at Lumburg, Had. Narin, and Shields, 52° at York and Oxford, 54° in London.  
 It rose to 68° in the shade in London yesterday but fell to 47° during the night and to 40° on the grass.

## WIND

NW<sup>2</sup>, moderate to light over Great Britain; NW<sup>1</sup> to W<sup>1</sup> in France, very light and variable over Ireland and the Irish Channel, as well as to the eastward of the North Sea.

## WEATHER

Fine generally over the British Islands and France, dull and unsettled to the eastward of the North Sea, with rain at Skudsmo and Berlin, and fog at Christiansund.  
 Rain fell yesterday on all our north and east coasts, and a thunderstorm occurred at Yarmouth.

## SEA

Moderate in the Channel, slight or smooth elsewhere.

## PROBABLE CHANGES IN SYSTEM NOW PREVALENT

There is no indication of any important change.

# FORECASTS

For the 24 hours ending at NOON on 8<sup>th</sup> JUNE 1890.

## DISTRICTS.

## FORECASTS.

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

NW<sup>2</sup> breezes, moderate to light; fine generally, cold at night

NW<sup>2</sup> breezes, light to calm; fine, very cold in night, and perhaps foggy.

## DISTRICTS.

## FORECASTS.

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

Calm and Varying airs; fine, fog or haze locally.

SE<sup>2</sup> breezes, light; fine, warmer.

## WARNINGS

NONE ISSUED.

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



# YESTERDAY'S 2 P.M. REPORTS.

	BAR:	THER:		WIND		WEA	SEA		BAR:	THER:		WIND		WEA	SEA
		D.	W.	D.	F.					D.	W.	D.	F.		
Skudesnaes ...	29.87	58	52	SSW	6	0	4	Holyhead ...	30.01	55	50	NW	5	6	5
Sumburgh Head ...	29.66	51	51	SSW	2	r	2	Valencia ...	30.17	56	49	N	3	6v	3
Stornoway ...	29.88	53	50	NW	4	bc	4	Scilly ...	30.12	57	55	NW	5	c	4
Aberdeen ...	29.85	50	47	NW	5	0	3	Jersey ...	30.11	59	57	W	5	c	4
Shields ...	29.76	63	60	SW	2	c	2	Dungeness ...	29.92	60	57	NW	5	c	4
Ardrossan ...	29.89	55	53	NW	7	b	4	London ...	29.92	66	60	NW	3	c	3
Malin Head ...	30.00	51	46	NW	5	bc	4	Yarmouth ...	29.86	63	60	NW	3	c	3
Mullaghmore ...	30.08	54	49	NW	6	bc	5	Rochefort ...	30.24	63	63	W	6	c	4
Belmullet ...	30.12	53	46	NW	2	b	*								

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

Weather fine in the extreme west of our Islands and also over the greater part of northern, central and southern Europe. Dull elsewhere with fog at some of the Channel stations and in the south of Norway, and rain over Scotland and the north of England, as well as at Lening and Hermanstadt. Fine weather setting in later in nearly all parts of the United Kingdom, but thunderstorm occurring at Yarmouth in afternoon.

Temperature highest, 79° at Trieste, 75° at Nice, 74° at Palma, and 73° at Righorn and Toulon; above 70° over the Adriatic and Mediterranean generally, and above 65° at some of the Baltic stations. Lowest 46° at Stornoway, 48° at Malin Head, 49° at Donaghadee and Parnassus and 50° at Humberland, Tander, Skudenes, Malin Head and Belmullet. Daily maxima below 60° in the west and extreme north of our Islands, but thermometer rising above 70° in some parts of Eastern England and above 80° in the south of France.

Wind strong from the NW<sup>nd</sup> in Ireland, and moderate from the same quarter in the north of Scotland, fresh or strong from the SW<sup>nd</sup> over the Channel, light or moderate from the S<sup>nd</sup> over the eastern part of Great Britain and also in Scandinavia and Denmark. Light from the NW<sup>nd</sup> in South Germany, the east and south of France, Italy, and Tunis; NE<sup>2</sup> in Spain; variable over Russia and Austria. Subsequently rising to the NW<sup>nd</sup> in nearly all parts of Great Britain.

Barometer highest, 30.3 ins: and upwards, over the northern parts of Iberian Peninsula, 30.1 ins: and upwards, over the northern half of Russia. Lowest, 29.7 ins: and less, in a V shaped depression extending over Scotland from the N<sup>nd</sup>; 29.3 ins: and less, in a shallow system lying over Eastern Austria. Depression over Scotland subsequently travelling away northward, and barometer rising briskly in all the more western and northern parts of the United Kingdom.

### EXPLANATION OF COLUMNS GIVEN ON PAGE 1.

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

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

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# DAILY WEATHER REPORT.

for Sunday 8<sup>th</sup> JUNE

1890.

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

STATIONS.	YESTERDAY EVENING.					8 A.M. TO DAY.										PAST 24 HOURS.		
	BAROM.	TEMP.	WIND.			BAROMETER.		SHADE TEMP.			WIND.					SHADE TEMP.		
	Reading at 32° F. and Sea Level.	Dry.	Dirac.	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.	Dirac.	Force, (0 to 12.)	Weather.	Sea, (0 to 6.)		Max.	Min.	Amount of Rainfall.
<b>SCANDINAVIA.</b>																		
Haparanda ...	29.85	54	Z	0	C	29.86	- .15	54	52	- 5	NE	4	0	*		63	52	—
Hernösand ...	29.90	58	Z	0	C	29.84	- .14	58	56	+ 3	ENE	2	f	*		72	46	0.04
Stockholm ...	29.75	60	NE	4	C	29.64	- .31	59	58	- 5	NNE	2	f	*		68	52	0.28
Wisby ...	29.71	54	ESE	4	bc	29.62	- .24	62	59	+ 7	S	4	f	*		68	52	—
Bodo ...	29.89	54	N	2	b	29.87	- .04	48	46	- 9	WSW	4	f	2		59	46	—
<b>BRITISH ISLANDS.</b>																		
Christiansund	29.93	53	W	3	r	30.04	+ .15	50	46	- 9	W	3	f	3		59	46	0.32
Skudesnaes ...	30.01	48	NNW	6	o	30.08	+ .17	51	46	- 1	NW	7	bc	4		52	45	0.12
Christiania Fjord (Paerter)	29.84	55	NW	6	bc	29.75	- .10	55	54	- 2	NNW	3	o	1		59	52	—
Skagen (The Seaw)	29.84	53	NNW	1	o	29.75	- .15	56	55	- 1	NNW	1	C	2		63	50	—
Fanö ...	30.03	48	NW	6	C	29.99	+ .10	50	47	- 6	NW	7	C	*		57	48	—
Sumburgh Head	30.20	50	WNW	3	b	30.17	+ .09	50	46	0	W	1	b	2		53	44	—
Stornoway ...	30.30	54	W	4	b	30.19	- .02	51	49	0	S	2	b	1		55	35	0.02
Wick ...	30.29	53	NW	2	b	30.21	+ .03	54	51	+ 2	S	1	b	0		58	42	—
Nairn ...	30.29	57	W	1	bc	30.21	- .01	51	47	+ 1	W	1	b	1		59	40	—
Aberdeen ...	30.31	54	NNW	2	C	30.25	+ .04	53	47	+ 1	SE	2	b	2		59	37	0.01
Leith ...	30.29	60	W	1	bc	30.20	- .06	56	51	+ 1	W	1	b	*		63	29	—
Shields ...	30.33	53	WNW	1	bc	30.25	- .08	53	50	+ 1	SSE	1	bc	2		59	42	—
Spurn Head ...	30.33	53	NE	2	b	30.29	+ .05	55	51	+ 2	S	3	b	3		56	47	—
York ...	30.38	59	N	1	C	30.26	- .01	56	53	+ 4	S	3	C	*		63	43	—
Loughborough	30.34	60	WNW	3	b	30.28	- .01	55	51	+ 2	SE	3	o	*		65	43	—
Ardrossan ...	30.33	57	W	2	b	30.18	- .11	57	51	+ 7	E	2	C	1		60	39	—
Malin Head ...	30.34	52	ENE	3	b	30.09	- .21	50	45	- 1	SE	4	o	2		56	47	—
Mullaghmore ...	30.32	57	SSE	2	CW	30.01	- .33	49	47	- 3	SE	6	rg	4		57	48	0.01
Belmullet ...	30.29	56	ENE	2	o	29.91	- .42	50	49	- 3	SE	4	o	*		57	48	0.20
Donaghadee ...	30.38	54	S	2	b	30.18	- .15	50	47	- 3	SE	3	o	1		58	49	—
Liverpool (Bidston)	30.37	56	WNW	2	b	30.24	- .10	52	48	- 1	ESE	3	o	3		58	44	—
Holyhead ...	30.38	52	NNW	1	b	30.17	- .17	53	50	- 5	S	1	rmg	1		59	46	0.01
Parsonstown ...	30.31	61	Z	0	C	30.04	- .22	53	52	+ 1	SE	2	r	*		62	48	0.24
Valencia ...	30.26	58	SE	5	om	29.97	- .33	56	55	+ 1	SSW	6	rm	6		61	49	0.85
Roche's Point...	30.24	57	SE	3	bc	30.04	- .29	55	55	0	SW	4	r	4		60	54	0.50
Pembroke (St. Ann's Hd.)	30.36	56	NW	2	b	30.15	- .20	50	50	- 4	SE	6	rg	4		58	49	0.14
Scilly ...	30.31	56	SE	3	m	30.13	- .18	55	55	0	SE	4	f	2		58	53	0.05
Prawle Point ...	30.38	54	SW	2	bc	30.27	- .09	52	51	- 2	SSE	4	cg	2		57	49	—
Jersey (St. Aubin's)	30.29	59	WNW	2	b	30.29	- .08	56	53	- 2	SE	3	ogm	3		61	48	—
Hurst Castle ...	30.35	58	WSW	5	b	30.30	- .04	55	54	- 1	SSW	2	o	2		66	49	—
Dungeness ...	30.32	56	SW	3	C	30.31	+ .09	56	53	+ 2	S	3	CW	2		60	44	—
London ...	30.32	63	NNW	3	bc	30.30	+ .02	57	54	+ 3	NE	1	b	*		65	45	—
Oxford ...	30.36	55	NNW	2	b	30.28	- .03	58	53	+ 6	SE	1	bm	*		64	40	—
Cambridge ...	30.38	60	NE	1	bc	30.29	+ .03	59	52	+ 3	SSE	1	bc	2		68	41	—
Yarmouth ...	30.31	56	N	3	b	30.33	+ .12	54	49	0	E	1	b	2		57	44	—
<b>GERMANY &amp; HOLLAND.</b>																		
Cuxhaven ...	30.04	50	NW	7	bc	30.12	+ .20	51	49	- 8	NW	7	o	*		53	50	0.04
Berlin ...	29.89	59	WNW	3	r	30.01	+ .12	51	47	- 9	NW	5	o	*		68	48	0.74
Wiesbaden ...	*	*	*	*	*	30.36	+ .25	52	46	- 7	NW	4	o	*		64	48	—
Munich ...	30.18	53	NW	6	o	30.29	+ .14	46	41	- 12	NW	6	o	*		63	45	0.95
The Helder ...	30.18	52	NNW	3	C	30.29	+ .23	53	47	+ 1	NNW	2	bc	3		54	50	—
<b>FRANCE AND BELGIUM.</b>																		
Brussels (9 a.m.)	*	*	*	*	*	30.30	+ .22	52	47	+ 2	NNW	1	b	*		57	38	0.04
Cape Gris Nez	?	57	NE	3	o	?	?	53	53	+ 4	SE	1	C	1		63	48	—
Paris ...	30.35	59	NNW	3	bc	30.38	+ .12	48	48	- 8	NNE	1	o	*		?	40	—
Brest ...	30.36	60	WSW	1	o	30.24	- .10	56	55	0	S	3	r	3		68	52	—
Lorient ...	30.36	61	W	2	bc	30.28	- .11	57	55	+ 1	E	3	o	3		63	52	0.04
Rocheport ...	30.33	60	NW	4	b	30.29	- .07	60	56	+ 4	SE	3	bc	2		66	46	—
Belfort ...	30.19	45	W	1	o	30.27	- .01	59	52	- 3	W	1	o	*		75	52	—
Lyons ...	30.21	62	N	2	o	30.26	- .01	57	?	- 1	NNW	3	o	*		76	54	—
Nice ...	29.92	68	SW	4	b	29.98	+ .02	67	59	0	E	2	o	0		79	57	—
Perpignan ...	30.21	73	N	3	b	30.22	- .05	69	60	+ 5	E	2	C	*		78	59	—
Biarritz ...	30.24	63	NNE	4	bc	30.25	- .01	63	59	?	ESE	3	bc	2		72	55	—
Corunna ...	*	*	*	*	*	30.24	- .11	60	?	- 6	WNW	1	f	3		75	57	?
Lisbon ...	30.15	82	NNW	5	b	30.16	- .05	77	66	+ 2	NNE	2	b	2		41	43	—

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

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



# WEATHER CHARTS

for 8 a.m. on

Sunday, 8<sup>th</sup> June,

1890.

## BAROMETER, WIND AND SEA.

### EXPLANATION OF MAP.

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

Changes since previous morning are stated in words.

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

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

→ = forces 5 to 7; → = forces 1 to 4.

○ = dead calm.

**SEA DISTURBANCE**—Where considerable, is shewn thus:

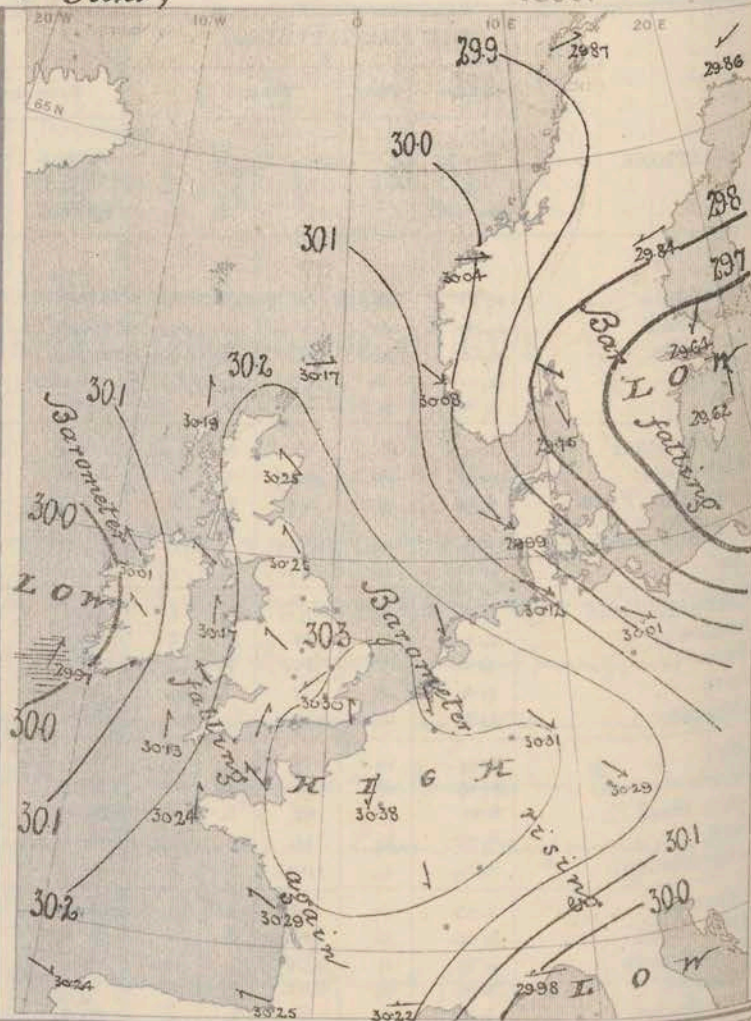
▨ = Rough. ▨ = High.

### MEAN HEIGHT OF THE BAROMETER

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

During the 15 Years: 1871—1885.

STATIONS.	MEAN READINGS.
Sumburgh Head .....	29.862
Stornoway .....	29.852
Wick .....	29.874
Nairn .....	29.880
Aberdeen .....	29.890
Leith .....	29.904
Shields .....	29.928
York .....	29.940
Loughborough .....	29.958
Ardrossan .....	29.909
Donaghadee .....	29.920
Holyhead .....	29.944
Liverpool .....	29.944
Parsonstown .....	29.952
Valencia .....	29.954
Roche's Point .....	29.952
Pembroke .....	29.952
Scilly .....	29.982
Jersey .....	29.994
Hurst Castle .....	29.981
Dover .....	29.971
LONDON .....	29.976
Oxford .....	29.964
Cambridge .....	29.967
Yarmouth .....	29.963



## 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.

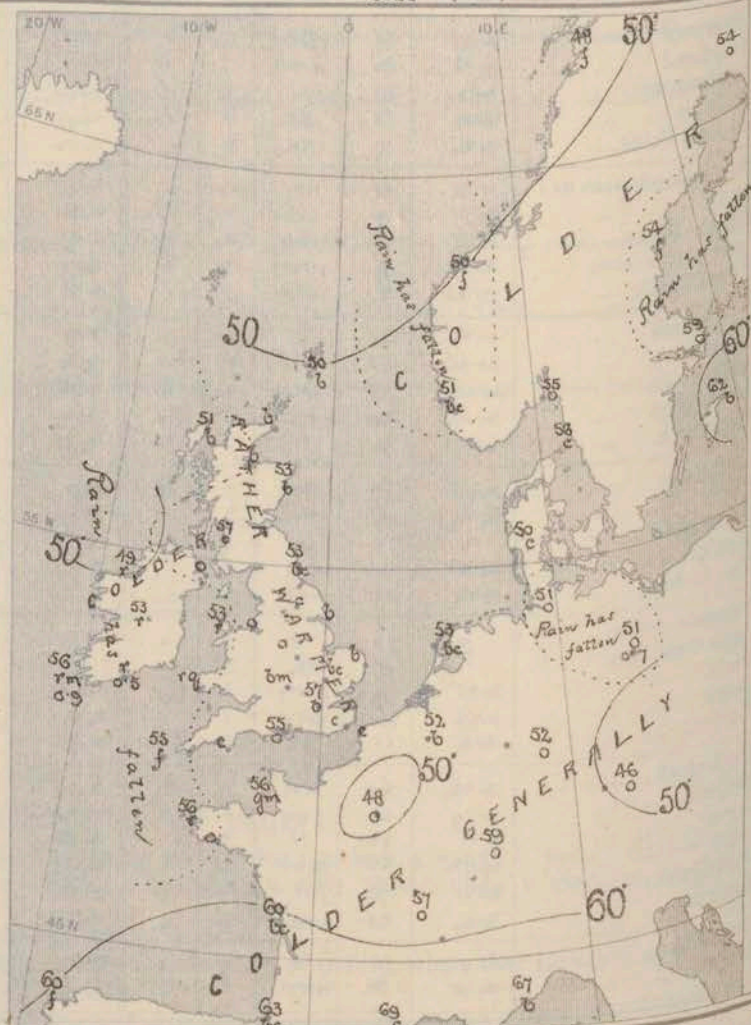
**RAINFALL**—A dotted line separates the districts in which rain has fallen from those where there has been none. Falls of 0.5 in. or more are quoted in figures.

### MEANS OF TEMPERATURE IN SHADE, AND RAINFALL.

(For the month of June.)

STATIONS.	TEMPERATURE.				RAINFALL. (Inches.)
	Daily Max.	Daily Min.	at 8 a.m.		
			Dry.	Wet.	
Sumburgh Head.....	54.5	43.1	50.4	48.7	2.07
Stornoway .....	57.6	46.0	53.3	51.0	2.99
Wick .....	58.8	45.7	53.1	50.4	1.75
Nairn .....	62.1	48.0	54.2	50.4	1.88
Aberdeen .....	61.3	47.5	54.7	50.9	1.88
Leith .....	64.5	48.1	56.0	52.5	1.84
Shields .....	60.9	49.1	54.9	51.9	1.82
York .....	66.2	48.3	56.1	52.7	2.45
Loughborough .....	68.7	49.0	58.1	54.1	2.43
Ardrossan .....	62.0	49.7	55.1	52.0	2.62
Donaghadee.....	60.9	48.9	55.0	52.8	2.04
Holyhead.....	61.7	51.6	56.6	53.1	2.10
Liverpool .....	63.6	50.9	56.6	52.6	1.96
Parsonstown .....	64.0	48.2	55.8	52.2	2.46
Valencia .....	61.7	50.7	56.8	53.8	3.42
Roche's Point .....	64.8	50.8	56.5	53.3	3.26
Pembroke.....	60.3	51.4	55.0	52.9	2.09
Scilly .....	61.1	53.0	57.2	55.0	1.94
Jersey .....	64.8	52.6	58.7	55.9	1.83
Hurst Castle .....	63.9	51.9	57.6	55.4	2.07
Dover .....	63.3	53.1	58.6	55.1	1.72
LONDON .....	69.3	50.6	59.2	54.8	2.12
Oxford .....	67.1	49.4	56.9	53.4	2.28
Cambridge .....	68.8	48.5	58.0	54.7	2.41
Yarmouth .....	62.2	51.4	56.9	54.1	2.02

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





# GENERAL SITUATION AT 8 A.M.

## PRESSURE

Highest, 30.3 ins. and upwards, in an anticyclone lying over the extreme southeast of England and the northern half of France.  
 Lowest, 29.7 ins. and less, in a depression lying over the Baltic and the south of Sweden; 30.0 ins. and less, in another system lying over the west of Ireland.  
 Gradients rather steep over Denmark and the south of Norway, and moderate over the west of our Islands, but slight elsewhere.  
 Barometer falling at all but the German and southern French stations, — briskly in Ireland and also in Sweden.

## TEMPERATURE

Highest, 77° at Lisbon, 63° at Perpignan, 67° at Nice, 63° at Biarritz, 62° at Marseilles, and 60° at Rochefort and Comma.  
 Lowest, 48° at Bodö and Paris, 49° at Mullaghmore and 50° at Christiansund, Sumburg, H. Melin, H. Kelmuller and Danagades.  
 The thermometer yesterday did not rise much above 60° in any part of the United Kingdom, but in Sweden it exceeded 65°.

## WIND

SE or S over our Islands and the west of France; light or moderate in force generally, but strong at some of our western stations.  
 Strong from the NW on the eastern shores of the North Sea and also over Germany; light or moderate from the NE in Sweden.  
 Variable or light from the N over the Central parts of France.

## WEATHER

Fine in all the more northern and eastern parts of Great Britain and also in the Netherlands.  
 Drizzle elsewhere, with rain at several of our western stations, and fog at the mouth of the Channel, as well as at some of the Scandinavian shores.  
 Since yesterday morning 0.5 ins. of rain has fallen at Rochefort, 0.7 in at Berlin, and 0.9 in at Valence.

## SEA

Rough at Valence, but moderate to smooth elsewhere.

## PROBABLE CHANGES IN SYSTEM NOW PREVALENT

# FORECASTS

For the 24 hours ending at NOON on 9<sup>th</sup> JUNE 1890.

## DISTRICTS.

## FORECASTS.

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

NONE ISSUED

## DISTRICTS.

## FORECASTS.

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

NONE ISSUED

## WARNINGS

NONE ISSUED

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



# YESTERDAY'S 2 P.M. REPORTS.

	BAR:	THER:		WIND		WEA.	SEA		BAR:	THER:		WIND		WEA.	SEA
		D.	W.	D.	F.					D.	W.	D.	F.		
Skudesnaes ...	30.02	47	45	NN	9	r	5	Holyhead ...	30.39	56	50	NNN	1	b	1
Sumburgh Head ...	30.16	50	46	WNW	3	bc	4	Valencia ...	30.19	60	56	SE	5	cm	5
Stornoway ...	30.29	55	51	NN	4	b	4	Scilly ...	30.23	58	57	SE	3	o	2
Aberdeen ...	30.28	56	47	WNW	3	c	3	Jersey ...	30.40	60	52	WNW	3	bc	3
Shields ...	30.30	55	51	NE	2	bc	3	Dungeness ...	30.31	59	54	SW	3	c	2
Ardrossan ...	30.33	53	51	W	3	b	2	London ...	30.31	61	52	W	3	c	2
Malin Head ...	30.35	55	49	NN	1	? b	2	Yarmouth ...	30.29	57	52	NNE	4	b	4
Mullaghmore ...	30.35	55	49	NN	2	bc	2	Rochefort ...	30.36	64	58	NN	3	b	2
Belmullet ...	30.24	56	49	WNW	2	o	*								

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

Weather fine over the greater part of Western and Southern Europe, as well as in Algeria, and the central and northern parts of Russia. Cloud in Scandinavia, Denmark, the Netherlands, Germany, Austria, and the south of Russia, with fog at Christiansund, and rain at Mennel and Berlin. Cloud weather setting in later in the west of Ireland, and also over the northern part of Italy and the Adriatic, with rain at Trieste.

Temperature highest, 75° at Lissak and Lisbon, 73° at Brindisi and Algiers, and 74° at Barcelona and Constantinople, above 65° over Southern Europe generally and also over the greater part of Russia (thermometer at Riga as high as 71°). Lowest 46° at Archangel, 50° at Sumburgh. Wind rain and Ardrossan, and 51° at Stornoway and Malin Head. Daily maxima below 60° at many of our western and northern stations, but thermometer exceeding 65° in some parts of England and reaching 80° or more in many parts of Southern Europe. Highest reading of all 91° at Lisbon and Madrid, and 88° at Palermo.

Wind light to moderate from the NW<sup>2</sup> or NW<sup>3</sup> over the greater part of Western Europe, but E<sup>3</sup> in the west and south of Ireland, and S<sup>3</sup> in the southwest of England. W<sup>2</sup> in Austria and Germany; E<sup>2</sup> over Russia; NE<sup>2</sup> at the Baltic stations; variable in Italy and Algeria and also in Norway. SE<sup>3</sup> breeze subsequently setting in over the whole of Ireland, and freshening in the extreme southwest.

Barometer highest 30.3 ins. and upwards in a large anticyclone covering all the more western parts of our Islands and France, with the Bay of Biscay and the north of Spain, 30.2 ins. and upwards in another area lying over the White Sea. Lowest, 29.8 ins. and less, in a large shallow depression lying over and to the eastward of Poland, 29.9 ins. and less, in a smaller system over the west of Norway. Anticyclone subsequently moving eastwards; Polish depression becoming somewhat deeper and spreading northwards.

### 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, 9<sup>th</sup> June, 1890.*  
*Issued by the Meteorological Office, 63, Victoria Street, London. R. H. SCOTT, Secretary.*

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

STATIONS.	YESTERDAY EVENING.					8 A.M. TO DAY.										PAST 24 HOURS.		
	Barom.	Temp.	Wind.		Weather.	Barometer.		Shade Temp.			Wind.		Sea. (0 to 3.)	Shade Temp.				
	Reading at 32° F. and Sea Level.	Dry.	Dir.	Force. (0 to 12.)		Reading at 32° F. and Sea Level.	Difference from 8 a.m. yesterday.	Dry.	Wet.	Difference from 8 a.m. yesterday.	Dir.	Force. (0 to 12.)		Max.	Min.	Amount of Rainfall.		
SCANDINAVIA.																		
Haparanda ...	29.77	51	NNE	4	c	29.84	-.07	50	47	-.3	NE	6	0	*	64	48	0.67	
Hernösand ...	29.63	59	S	2	b	29.63	-.01	50	46	-.4	N	6	0	*	73	?	-	
Stockholm ...	29.67	56	WSW	4	f	29.64	+.02	53	52	-.1	NW	2	0	*	66	48	-	
Wisby ...	29.88	52	Z	0	0	30.06	+.19	48	46	0	ESE	1	0	1	54	46	0.32	
Christiansund ...	30.02	50	WNW	3	bc	30.05	+.12	49	45	-.4	WNW	1	c	2	50	46	0.08	
Skudesnaes ...	30.07	49	NW	6	b	30.01	-.07	50	45	-.5	NW	5	c	4	52	41	-	
Christiania Fjord (Fæder)	29.82	56	NW	3	bc	29.88	+.13	53	45	+.8	NW	6	c	2	57	50	-	
Skagen (The Scaw)	29.82	54	N	1	bc	29.88	+.13	54	52	-.2	NE	3	b	4	64	54	-	
Fanø ...	30.04	48	NW	6	b	30.03	+.04	53	49	+.4	NW	6	bc	*	55	46	-	
BRITISH ISLANDS.																		
Sumburgh Head	30.11	51	Z	0	b	29.94	-.23	48	46	-.2	ESE	4	0	4	55	42	-	
Stornoway ...	29.46	52	NE	5	c	29.73	-.44	53	51	+.2	S	2	bc	3	54	48	0.12	
Wick ...	30.04	53	SE	4	c	29.78	-.43	51	51	-.3	SE	4	f	3	58	41	0.25	
Nairn ...	29.94	60	ESE	2	bc	29.77	-.44	55	54	+.1	Z	0	bc	1	61	50	0.12	
Aberdeen ...	30.07	50	SE	4	0	29.84	-.41	53	52	0	S	2	om	3	55	49	0.11	
Leith ...	30.04	56	SE	1	f	29.84	-.36	60	55	+.4	SW	4	c	*	62	51	0.06	
Shields ...	30.06	52	ESE	2	f	29.91	-.34	60	56	+.7	WSW	2	0	2	60	49	0.08	
Spurn Head ...	30.10	58	E	5	0	29.98	-.31	59	56	+.4	SW	3	c	3	60	50	0.01	
York ...	30.08	59	S	2	0	29.97	-.29	59	56	+.3	WSW	3	0	*	62	51	0.03	
Loughborough	30.11	56	ESE	3	0	30.03	-.25	60	55	+.5	WSW	3	c	*	60	55	0.01	
GERMANY & HOLLAND.																		
Ardrossan ...	29.93	54	E	3	dm	29.85	-.33	54	53	-.3	SW	3	0	3	58	52	0.58	
Malin Head ...	29.82	56	SSE	4	0	29.82	-.27	55	53	+.5	SW	4	0	3	54	47	0.26	
Mullaghmore ...	29.82	60	SSW	5	c	29.91	-.10	55	53	+.6	SSW	4	c	2	64	46	0.11	
Belmullet ...	29.82	56	SW	4	0	29.84	-.07	56	53	+.6	SW	3	bc	*	59	49	0.09	
Donaghadee ...	29.90	52	SSW	3	f	29.90	-.28	58	56	+.8	WSW	3	c	1	58	50	0.34	
FRANCE AND BELGIUM.																		
Liverpool (Bidston)	30.01	53	SE	3	0	29.98	-.23	57	54	+.3	SW	2	0	3	58	51	0.13	
Holyhead ...	29.97	54	S	5	ogm	29.97	-.20	54	53	+.1	SW	4	ogm	4	54	51	0.37	
Parsonstown ...	29.90	61	SW	2	bc	29.94	-.10	57	55	+.4	Z	0	c	*	67	52	0.11	
Valencia ...	29.95	57	SW	6	om	29.96	-.01	57	55	+.1	S	5	0	5	59	53	-	
Roche's Point...	29.99	57	WSW	5	bc	29.99	-.05	56	53	+.1	SW	3	c	3	61	53	0.15	
SPAIN.																		
Pembroke (St. Ann's Hd.)	30.04	54	N	3	b	30.04	-.11	54	53	+.4	SSW	3	bc	3	55	50	0.03	
Silly ...	30.11	58	WSW	3	bc	30.03	-.08	59	58	+.4	SSW	4	c	2	59	53	0.25	
Prawle Point ...	30.13	52	SSW	4	f	30.12	-.15	54	54	+.2	WSW	2	c	2	54	50	0.39	
Jersey (St. Aubin's)	30.20	57	SE	3	ogm	30.16	-.13	55	53	-.1	NW	3	ogm	3	59	52	0.17	
Hurst Castle ...	30.13	54	SW	4	T	30.12	-.18	57	55	+.2	WSW	3	bc	1	58	54	0.25	
ITALY.																		
Dungeness ...	30.20	56	S	3	0	30.07	-.24	55	55	-.1	S	3	f	1	60	53	0.08	
London ...	30.18	55	S	2	0	30.07	-.23	60	56	+.3	WSW	2	b	*	67	52	0.17	
Oxford ...	30.11	53	SSE	3	0	30.06	-.22	59	54	+.1	SW	2	bc	*	63	52	0.06	
Cambridge ...	30.16	60	S	1	c	30.05	-.24	62	56	+.3	SW	1	b	*	68	51	0.03	
Yarmouth ...	30.19	54	SSW	5	CV	30.05	-.28	58	55	+.4	WSW	2	c	2	58	52	-	
PORTUGAL.																		
Cuxhaven ...	30.14	51	NW	6	bc	30.11	-.01	52	50	+.1	WNW	4	b	*	54	50	-	
Berlin ...	30.06	53	WNW	5	0	30.06	+.05	51	46	0	WNW	5	b	*	59	46	-	
Wiesbaden ...	*	*	*	*	*	30.20	-.09	52	49	+.6	Z	0	0	*	61	43	-	
Munich ...	30.28	47	Z	0	b	30.24	-.07	52	44	0	WNW	1	b	*	54	41	-	
The Helder ...	30.22	53	N	1	c	30.09	-.20	55	52	+.2	SSW	2	0	2	57	50	-	
NETHERLANDS.																		
Brussels (9 a.m.)	*	*	*	*	*	30.10	-.20	57	53	+.5	SSW	2	0	*	63	51	-	
Cape Gris Nez	?	55	SW	1	0	?	?	55	54	-.1	SW	4	f	4	64	52	0.08	
Paris ...	30.25	62	SE	2	0	30.20	-.18	56	55	+.8	SSW	1	0	*	68	50	-	
Brest ...	30.16	59	SW	2	m	30.14	-.10	57	55	+.1	Z	0	0	2	66	50	-	
Lorient ...	30.22	59	S	1	0	30.13	-.15	57	56	0	NW	1	0	2	63	57	0.04	
FRANCE AND BELGIUM.																		
Rochefort ...	30.17	66	NW	3	0	30.14	-.15	62	58	+.2	NE	1	bc	*	82	48	-	
Belfort ...	30.25	64	NW	1	0	30.15	-.12	55	49	-.4	N	1	0	*	72	45	-	
Lyons ...	30.20	63	N	1	bc	30.18	-.18	59	51	-.8	N	1	b	*	67	54	-	
Nice ...	30.01	67	S	1	bc	29.96	-.02	65	58	-.7	NE	2	b	1	77	59	-	
Perpignan ...	30.10	81	NW	1	b	30.10	-.12	76	64	+.7	WSW	1	b	*	86	59	-	
Biarritz ...	30.14	72	NE	3	b	30.16	-.09	64	61	+.1	WNW	3	c	2	84	63	-	
ITALY.																		
Corunna ...	*	*	*	*	*	30.10	-.06	70	61	-.7	NNE	2	b	2	90	64	-	
Lisbon ...	30.12	74	WNW	6	b	30.10	-.06	70	61	-.7	NNE	2	b	2	90	64	-	

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

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



# WEATHER CHARTS

for 8 a.m. on

Monday, 9<sup>th</sup> June.

1890.

## BAROMETER, WIND AND SEA.

### EXPLANATION OF MAP

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

Changes since previous morning are stated in words.

**WIND**—Arrows shew the prevalent winds. They fly with the wind and their barbs and feathers refer to forces thus—

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

→ = forces 5 to 7; → = forces 1 to 4.

○ = dead calm.

**SEA DISTURBANCE**—Where considerable, is shewn thus:

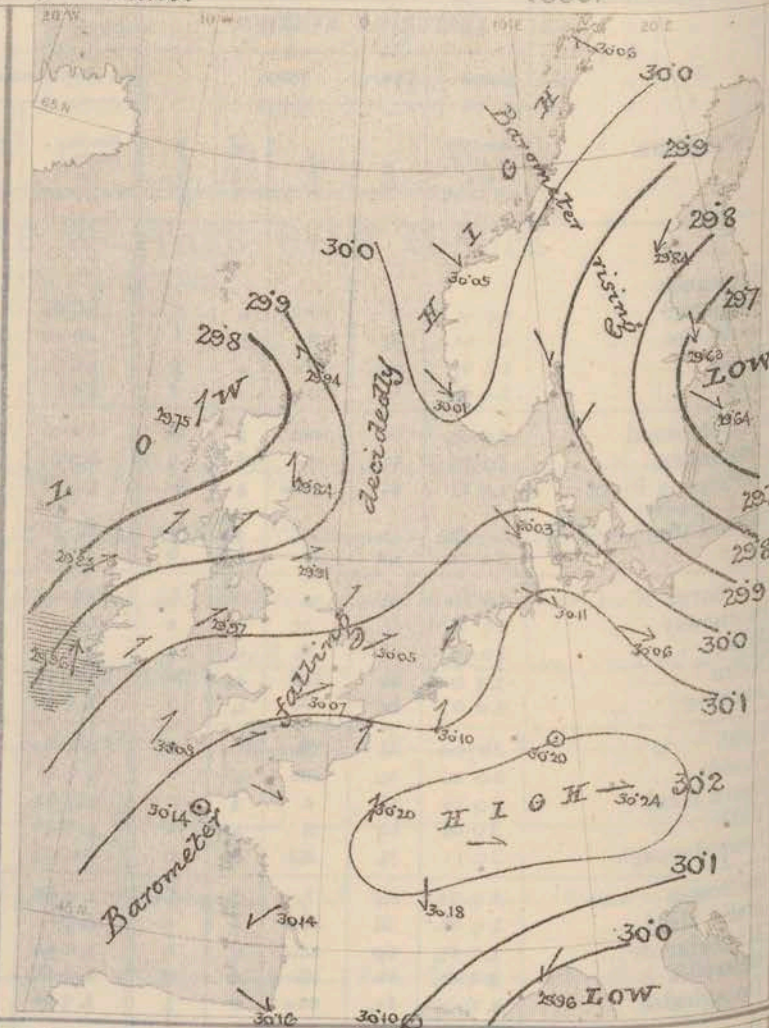
▨ = Rough. ▨ = High.

### MEAN HEIGHT OF THE BAROMETER

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

During the 15 Years, 1871–1885.

STATIONS.	MEAN READINGS.
Sumburgh Head	29.862
Stornoway	29.852
Wick	29.874
Nairn	29.880
Aberdeen	29.890
Leith	29.904
Shields	29.928
York	29.949
Loughborough	29.958
Ardrossan	29.969
Donaghadee	29.920
Holyhead	29.944
Liverpool	29.944
Parsonstown	29.952
Valencia	29.954
Roche's Point	29.952
Pembroke	29.952
Scilly	29.982
Jersey	29.994
Hurst Castle	29.981
Dover	29.971
LONDON	29.976
Oxford	29.964
Cambridge	29.967
Yarmouth	29.963



## 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.

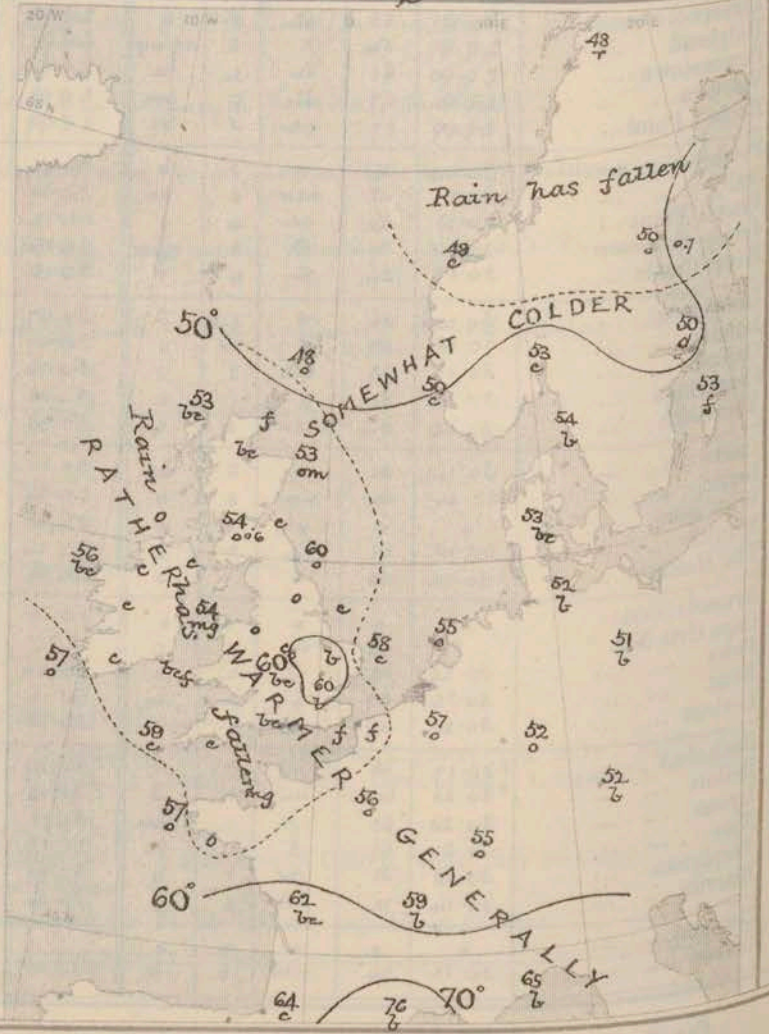
**RAINFALL**—A dotted line separates the districts in which rain has fallen from those where there has been none. Falls of 0.5 in. or more are quoted in figures.

### MEANS OF TEMPERATURE IN SHADE, AND RAINFALL.

(For the month of June.)

STATIONS.	TEMPERATURE.				RAINFALL (Inches.)
	Daily Max.	Daily Min.	54° a.m.	54° p.m.	
Sumburgh Head	51.5	45.1	50.4	45.7	2.07
Stornoway	57.6	46.0	55.3	51.0	2.09
Wick	58.8	45.7	53.1	50.4	1.75
Nairn	62.1	48.0	51.2	50.4	1.83
Aberdeen	61.3	47.5	54.7	50.0	1.88
Leith	64.6	48.1	56.0	52.5	1.81
Shields	60.9	49.1	54.9	51.0	1.82
York	66.2	48.3	56.1	52.7	2.45
Loughborough	68.7	49.0	58.1	51.1	2.43
Ardrossan	62.9	49.7	55.1	52.0	2.02
Donaghadee	60.9	48.9	55.0	53.8	2.04
Holyhead	61.7	51.6	56.0	53.1	2.10
Liverpool	63.6	50.9	56.6	52.6	1.98
Parsonstown	64.0	48.2	55.8	52.2	2.46
Valencia	61.7	50.7	56.8	53.8	3.42
Roche's Point	64.8	50.8	56.6	53.3	3.26
Pembroke	60.3	51.4	56.6	52.9	2.09
Scilly	61.1	53.0	57.2	55.0	1.04
Jersey	64.8	52.6	58.7	55.9	1.83
Hurst Castle	63.9	51.9	57.6	55.4	2.07
Dover	63.3	53.1	58.6	55.1	1.72
LONDON	69.3	50.6	59.3	54.8	2.12
Oxford	67.1	49.4	58.9	53.4	2.28
Cambridge	68.8	48.5	58.0	54.7	2.41
Yarmouth	62.2	51.4	59.9	54.1	2.02

NOTE.—The Temperature means are for the 15 years 1871–85, the Rainfall means are mainly those for the 20 years 1863–83.





# GENERAL SITUATION AT 8 A.M.

## PRESSURE

Highest, 30.2 in. and upwards, in an anticyclone lying over South Germany and Central France.  
Lowest, 29.7 in. and less, in a depression lying over the Baltic; 29.5 in. and less, in the west and north of Scotland.

Gradients slight. Barometer falling at all but the Scandinavian stations.

## TEMPERATURE

Highest, 76° at Perpignan, 70° at Lisbon, 65° at Nice, 64° at Biarritz, and 62° at Cambridge and Rochefort.

Lowest, 48° at Porto and Sumburg Head, 43° at Christiansund and 50° at Helsingfors, Stockholm, and Skutumpah.

The highest maxima registered over our Islands yesterday were 68° at Cambridge and 67° in London and at Parsonstown.

## WIND

Light to moderate from the S<sup>nd</sup> or S.W<sup>nd</sup> over the greater part of our Islands, but S.E.<sup>ly</sup> in Caithness and the Shetlands.

Moderate to strong from the N.W<sup>nd</sup> on the eastern shores of the North Sea and from the N<sup>nd</sup> in Sweden.

Light and variable in France and Western Germany.

## WEATHER

Fair generally, but cloudy in some districts, with fog in the Straits of Dover, as well as at Wick and Wickburg and rain at Porto.

Rain fell yesterday in many parts of our Islands and Scandinavia the largest amounts being 0.7 in. at Helsingfors and 0.6 in. at Christiansund.

## SEA

Slight or smooth generally, but rather rough at Valencia Island.

## PROBABLE CHANGES IN SYSTEM NOW PREVALENT

The wind is backing to the S<sup>nd</sup> in the west of Ireland, and another depression is probably approaching our western coasts.  
Changeable weather seems likely to continue generally, with decided falls of rain in most places.

## FORECASTS

For the 24 hours ending at NOON on 10<sup>th</sup> JUNE 1890.

### DISTRICTS.

### FORECASTS.

0 SCOTLAND

NORTH

S<sup>ly</sup> and S.E.<sup>ly</sup> winds, moderate to fresh;  
fair to dull and some rain.

1 SCOTLAND

EAST

2 ENGLAND

N.E.

3 ENGLAND

EAST

4 MIDLAND

COUNTIES

5 ENGLAND

SOUTH

Same as No 5

S.W.<sup>ly</sup> winds, moderate; fair to showery

### DISTRICTS.

### FORECASTS.

6 SCOTLAND

WEST

7 ENGLAND

N.W.

8 ENGLAND

S.W.

9 IRELAND

NORTH

10 IRELAND

SOUTH

S<sup>ly</sup> and S.W.<sup>ly</sup> winds, freshening;  
changeable, some rain.

S<sup>ly</sup> winds, strong; 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:	THER:		WIND		WEA.	SEA		BAR:	THER:		WIND		WEA.	SEA
		D.	W.	D.	F.					D.	W.	D.	F.		
Skudesnaes ...	30.08	47	45	NW	7	r	4		Holyhead ...	30.02	52	52	S	5	r q m
Sumburgh Head ...									Valencia ...						
Stornoway ...	30.05	53	51	E	4	bc	4		Scilly ...						
Aberdeen ...									Jersey ...	30.26	58	55	SE	3	0
Shields ...									Dungeness ...	30.25	59	54	S	3	0
Ardrossan ...									London ...						
Malin Head ...	29.90	51	49	SE	5	0	3		Yarmouth ...						
Mullaghmore ...									Rochefort ...	30.25	77	65	Z	0	c
Belmullet ...	29.85	59	57	SSW	2	0	*								

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

*Weather* fine in the northern and eastern parts of Great Britain, as well as over the greater part of Russia, southern Europe and Algeria. Raining in the west of our Islands, and also at some of the German and Austrian stations, and foggy in the west of Norway, as well as at Helsingfors, Scilly and Corunna. Rain extending later to nearly all parts of the United Kingdom.

*Temperature* highest 77° at Lisbon and Algiers, 75° at Bilbao, Barcelona and Genoa, 73° at Brindisi, and 72° at Nemours and La Galle; considerably above 60° at most of the Russian stations, - as high as 68° even at Thapsia. Lowest 46° at Munich, 48° at Bodo and Paris, 49° at Mullaghmore and Prague, and 50° at Fano, Malin Head, Belmullet, Donaghadee, Le Mans and Munster. Highest daily maxima over our Islands 68° at Cambridge, and 67° at Parsonstown and in London, but thermometer exceeding 80° in many parts of France.

*Wind* S<sup>W</sup> or SE<sup>W</sup> in most of our Islands and France, strong in force at some of our western stations, light or moderate elsewhere. Strong from the NW and over Austria, Germany and the eastern shores of the North Sea, light from S. or SE. in central and southern Russia, and from the NE. in Sweden. Variable in Italy and central France, E<sup>W</sup> or NE<sup>W</sup> in Spain, NW<sup>W</sup> over Tunis and the adjacent part of the Mediterranean. Subsequently veering to the SW<sup>W</sup> in all the more western and southern parts of the United Kingdom.

*Barometer* highest 30.3 ins. and upwards in the central portion of an anticyclone lying over the extreme southeast of England and the northern half of France; 30.2 ins. and upwards over nearly the whole of Great Britain, France, Spain, the Netherlands and western Germany. Lowest 29.7 ins. and less in an irregularly formed depression lying over the Baltic and adjacent regions; 29.7 ins. and less in another disturbance lying over the west of Ireland, and also (apparently) in a third system over the extreme south of Italy. Depression in west subsequently moving slowly northwards, and barometer falling in all parts of western Europe.

## SUMMARY OF CHANGES IN THE WEATHER OVER THE BRITISH ISLANDS AND THEIR NEIGHBOURHOOD FROM THE 1<sup>ST</sup> TO 7<sup>TH</sup> JUNE 1890.

The weather of last week was mostly changeable and unsettled, with decided falls of rain in most places, but with considerable intervals of fair dry weather in the southeastern part of the Kingdom.

At the commencement of the time a large anticyclone embraced all the more southern parts of our Islands, with France and the Bay of Biscay, while depressions were found both to the north of our Islands and over Scandinavia and northern Russia. The prevailing winds were therefore W<sup>W</sup>, with fine weather in the south, but with showers in the north.

Between the 2<sup>ND</sup> and 16<sup>TH</sup>, however, the highest pressures were found either over Spain, France and Germany, while cyclonic disturbances travelled northwards along our extreme west and north coasts. The wind therefore became SW<sup>W</sup> or S<sup>W</sup>, and on the 3<sup>RD</sup> when a somewhat deep depression appeared in the west, a fresh to strong gale was reported in Ireland. Falls of rain were experienced in all places, and a good deal of fog prevailed over our southwest coasts on the 4<sup>TH</sup> and 5<sup>TH</sup>.

During the night of the latter date a "V" shaped depression appeared over our western and northern districts, and occasional heavy rain in Ireland. As this system travelled away, however, a ridge of high pressure advanced over the Kingdom from the westward, and fine weather became general. At the close of the week there were indications of the advance of fresh disturbances towards our western coasts.

Temperature has been as a rule somewhat low for the time of year, the thermometer over our Islands seldom reaching 70°, even at the inland stations. In the west and north the daily maxima have been frequently below 60°.

## EXPLANATION OF COLUMNS GIVEN ON PAGE 1.

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

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

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

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



# DAILY WEATHER REPORT.

for *Tuesday 10<sup>th</sup> June* 1890.  
 Issued by the Meteorological Office, 63, Victoria Street, London. R. H. SCOTT, Secretary.

Issued by the Meteorological Office, 65, Victoria Street, London. R. H. SCOTT, Secretary.

STATIONS.	YESTERDAY EVENING.						8 A.M. TO DAY.										PAST 24 HOURS.		
	BAROM.	TEMP.	WIND.		Weather.	BAROMETER.		SHADE TEMP.			WIND.		Weather.	Sea. (0 to 3.)	SHADE TEMP.		Amount of Rainfall.		
	Reading at 32° F. and Sea Level.	Dry.	Dirce.	Force. (0 to 12.)		Reading at 32° F. and Sea Level.	Difference from 8 a.m. yesterday.	Dry.	Wet.	Difference from 8 a.m. yesterday.	Dirce.	Force. (0 to 12.)			Max.	Min.			
SCANDINAVIA.																			
Haparanda ...	29.81	58	NE	2	b	30.08	+0.08	58	53	+11	NE	2	b	*	63	41	—		
Hernösand ...	30.02	54	NNE	4	c	29.99	+1.15	55	45	+5	NE	6	b	*	63	45	—		
Stockholm ...	29.76	49	N	6	o	29.79	+1.16	48	46	-2	NNW	6	o	*	63	45	0.28		
Wisby ...	29.75	48	N	6	p	29.73	+0.09	49	48	-4	N	6	o	*	57	45	0.24		
Bodö ...	30.10	48	NNE	1	o	30.09	+0.03	53	50	+5	N	1	c	1	?	46	0.04		
Christiansund	30.00	52	NE	6	bc	29.97	-0.03	53	50	+6	ENE	4	c	3	55	48	—		
Skudesnaes ...	29.97	50	NW	4	bc	29.97	-0.04	53	48	+3	E	2	b	3	54	45	—		
Christiania Fjord (Fæder)	29.92	57	WNW	3	c	29.96	+0.04	52	49	-1	N	6	c	2	57	50	—		
Skagen (The Scaw)	29.93	52	NW	1	b	29.94	+0.06	54	51	0	NNE	1	bc	2	63	48	—		
Fanö ...	30.01	53	WSW	3	o	29.97	-0.06	53	54	+2	W	3	c	*	55	52	—		
Sumburgh Head	29.92	48	ESE	4	o	29.90	-0.04	50	48	+2	ENE	4	o	5	50	45	0.09		
Stornoway ...	29.81	58	SW	2	c	29.79	+0.04	54	54	+1	S	2	o	2	60	47	—		
Wick ...	29.84	53	2	o	c	29.82	+0.04	57	53	+6	S	1	b	0	59	46	0.02		
Nairn ...	29.83	62	W	1	c	29.80	+0.03	62	55	+7	ESE	1	c	1	66	50	0.03		
Aberdeen ...	29.86	60	N	1	bc	29.86	+0.02	59	55	+6	SE	2	c	2	67	51	0.10		
BRITISH ISLANDS.																			
Leith ...	29.89	64	WSW	2	c	29.84	0.0	59	55	+1	ENE	1	c	*	68	51	—		
Shields ...	29.93	63	SW	1	c	29.87	-0.04	58	53	-2	ESE	1	bc	2	66	50	—		
Spurn Head ...	29.97	63	SW	3	c	29.87	-0.10	60	57	+1	SE	3	b	3	66	53	—		
York ...	29.98	61	W	1	c	29.87	-0.10	61	55	+2	S	2	bc	*	64	51	—		
Loughborough	30.00	66	WSW	2	c	29.87	-0.16	63	57	+3	ESE	2	bc	*	68	46	—		
Ardrossan ...	29.88	56	SW	1	o	29.78	-0.07	57	54	+3	SE	3	o	2	58	52	—		
Malin Head ...	29.82	56	ESE	4	o	29.60	-0.22	56	53	+1	ESE	5	o	2	60	53	—		
Mullaghmore ...	29.78	59	SE	4	o	29.58	-0.33	56	53	+1	SE	5	og	3	63	53	0.06		
Belmullet ...	29.74	51	SW	2	p	29.51	-0.33	55	53	-1	ESE	3	og	*	60	53	0.09		
Donaghadee ...	29.88	57	SW	2	c	29.75	-0.15	53	52	-5	S	2	c	1	63	51	—		
Liverpool (Bidston)	29.97	62	WSW	2	c	29.80	-0.18	59	53	+2	SE	3	c	3	66	53	—		
Holyhead ...	29.95	53	SW	4	c	29.76	-0.21	58	54	+4	SE	2	o	2	60	53	—		
Parsonstown ...	29.84	60	SW	1	o	29.60	-0.34	58	57	+1	SE	2	o	*	65	53	0.01		
Valencia ...	29.74	57	ESE	7	pm	29.51	-0.45	57	54	0	ESE	6	o	*	58	53	0.38		
Roche's Point...	29.89	57	S	4	o	29.61	-0.38	55	52	-1	S	4	c	4	60	51	0.15		
Pembroke (St. Ann's Hd.)	29.98	55	SW	3	c	29.73	-0.31	53	53	-1	SE	4	og	3	57	52	—		
Scilly ...	29.95	57	S	4	o	29.70	-0.35	55	53	-4	S	5	og	3	60	53	0.20		
Prawle Point ...	30.02	55	ESE	1	bc	29.77	-0.35	53	53	-1	SW	1	f	0	63	51	—		
Jersey (St. Aubin's)	30.03	63	ESE	1	b	29.80	-0.36	59	57	+4	S	3	og	3	64	54	—		
Hurst Castle ...	30.06	58	WSW	3	b	29.81	-0.31	62	59	+5	ESE	5	bc	1	62	53	—		
Dungeness ...	30.05	57	WSW	5	bc	29.88	-0.19	63	58	+8	S	3	bc	2	63	52	—		
London ...	29.85	64	W	2	bc	29.85	-0.22	64	59	+4	ESE	2	b	*	71	54	—		
Oxford ...	30.01	61	SW	2	c	29.84	-0.22	60	56	+1	SE	2	bc	*	68	45	—		
Cambridge ...	30.00	64	SW	1	b	29.86	-0.19	64	59	+2	ESE	1	bc	*	71	45	—		
Yarmouth ...	30.02	62	SW	2	b	29.93	-0.12	57	51	-1	SW	3	b	2	68	52	—		
GERMANY & HOLLAND.																			
Cuxhaven ...	30.07	58	N	2	b	30.02	-0.09	59	57	+7	WNW	2	b	*	60	51	—		
Berlin ...	30.05	60	WNW	3	bc	30.01	-0.05	59	55	+4	WNW	3	o	*	66	52	—		
Wiesbaden ...	30.10	54	N	1	c	30.10	-0.10	59	54	+7	W	1	b	*	68	52	—		
Munich ...	30.17	54	WNW	1	c	30.12	-0.12	58	51	+6	E	4	b	*	61	41	—		
The Helder ...	30.05	57	SW	1	b	29.99	-0.10	58	57	+3	S	1	bc	1	64	48	—		
FRANCE AND BELGIUM.																			
Brussels (9 a.m.)	?	59	N	3	bc	29.93	-0.17	65	58	+8	ESE	1	b	*	67	52	—		
Cape Gris Nez	?	59	N	3	bc	29.93	-0.17	64	58	+8	S	2	b	1	64	52	—		
Paris ...	30.09	67	SE	1	o	29.95	-0.25	62	56	+6	ESE	1	b	*	71	54	—		
Brest ...	30.08	58	WSW	3	p	29.80	-0.34	61	57	+4	S	3	o	3	66	52	0.35		
Lorient ...	30.02	64	W	1	b	29.85	-0.28	57	56	0	ESE	1	p	2	66	53	0.16		
Rochefort ...	30.00	72	NW	2	b	29.81	-0.33	65	62	+3	SE	3	o	2	82	55	—		
Belfort ...	30.15	65	ESE	1	b	30.01	-0.14	59	50	+4	WSW	1	b	*	77	45	—		
Lyons ...	30.07	68	ENE	2	b	29.99	-0.19	62	53	+3	ESE	1	b	*	72	51	—		
Nice ...	30.01	66	SW	4	b	30.01	+0.05	64	57	-1	W	1	b	0	75	57	—		
Perpignan ...	29.99	80	SW	3	bc	29.94	-0.16	70	62	-6	S	1	b	*	86	56	—		
Biarritz ...	29.99	69	NNE	3	c	29.92	-0.24	64	61	0	WNW	6	o	3	77	61	—		
SPAIN.																			
Corunna ...	30.04	69	NW	3	b	30.16	+0.06	62	58	-8	WNW	4	o	2	84	61	—		
Lisbon ...	30.04	69	NW	3	b	30.16	+0.06	62	58	-8	WNW	4	o	2	84	61	—		

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

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



# WEATHER CHARTS

for 8 a.m. on

Tuesday, 10<sup>th</sup> June

1890.

## BAROMETER, WIND AND SEA.

### EXPLANATION OF MAP.

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

Changes since previous morning are stated in words.

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

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

→ = forces 5 to 7; → = forces 1 to 4.

○ = dead calm.

**SEA DISTURBANCE**—Where considerable, is shown thus:

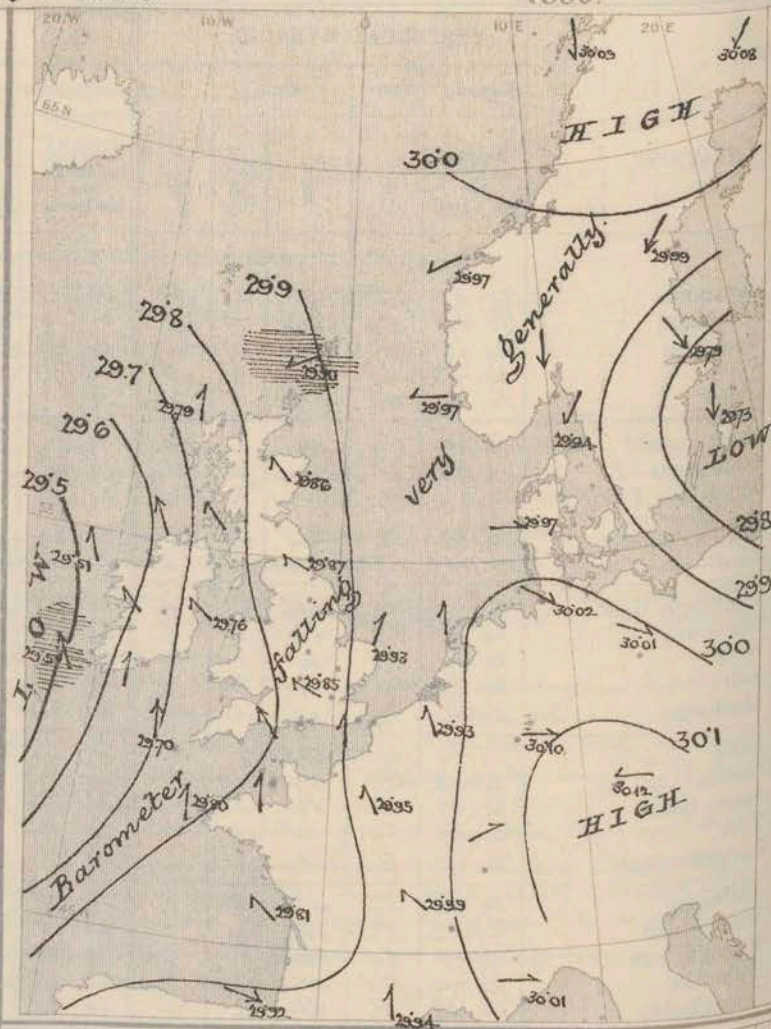
▨ = Rough. ▨ = High.

## MEAN HEIGHT OF THE BAROMETER

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

During the 15 Years: 1871—1885.

STATIONS.	MEAN READINGS.
Sumburgh Head	29.862
Stornoway	29.862
Wick	29.874
Nairn	29.889
Aberdeen	29.890
Leith	29.904
Shields	29.928
York	29.949
Loughborough	29.958
Ardrossan	29.969
Donaghadee	29.920
Holyhead	29.944
Liverpool	29.944
Parsonstown	29.952
Valencia	29.954
Roche's Point	29.952
Pembroke	29.952
Scilly	29.982
Jersey	29.994
Hurst Castle	29.981
Dover	29.971
LONDON	29.976
Oxford	29.964
Cambridge	29.967
Yarmouth	29.963



## 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.

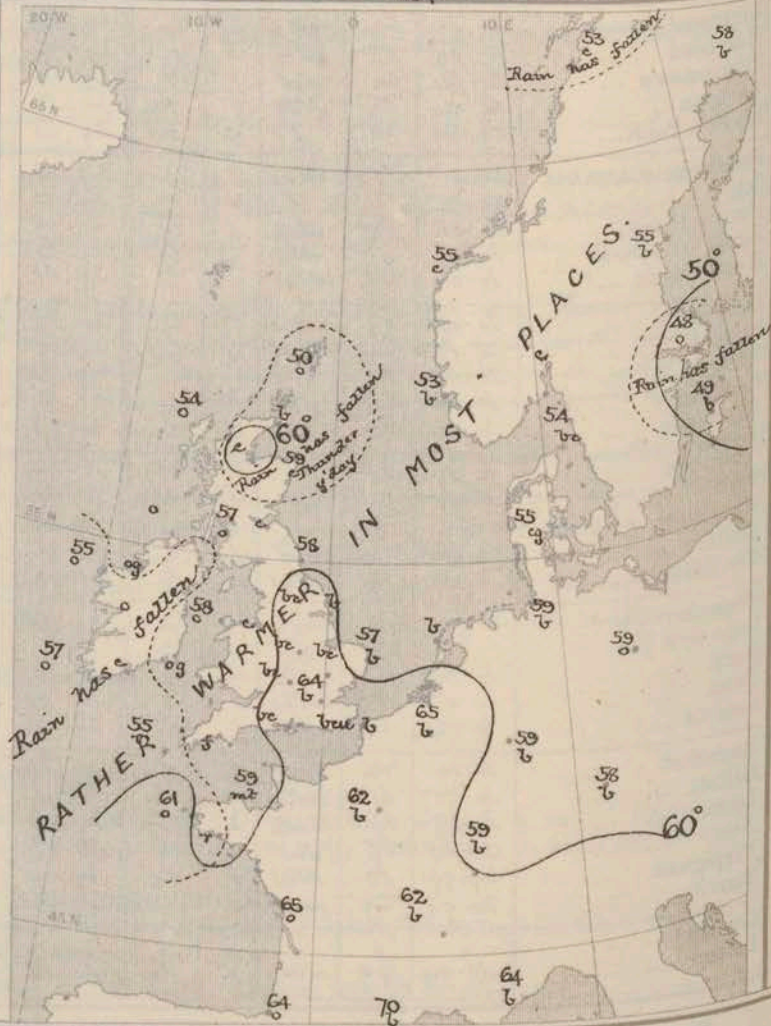
**RAINFALL**—A dotted line separates the districts in which rain has fallen from those where there has been none. Falls of 0.5 in. or more are quoted in figures.

### MEANS OF TEMPERATURE IN SHADE, AND RAINFALL.

(For the month of June.)

STATIONS.	TEMPERATURE.				RAINFALL (Inches.)
	Daily Max.	Daily Min.	at 8 a.m.		
			Dry.	Wet.	
Sumburgh Head.....	54.5	45.1	50.4	48.7	2.07
Stornoway.....	57.0	46.0	53.3	51.0	2.99
Wick.....	58.8	45.7	53.1	50.4	1.75
Nairn.....	62.1	48.0	54.2	50.4	1.88
Aberdeen.....	61.3	47.5	54.7	50.9	1.88
Leith.....	64.5	48.1	56.0	52.5	1.84
Shields.....	60.9	49.1	54.9	51.9	1.82
York.....	66.2	48.3	56.1	52.7	2.45
Loughborough.....	68.7	49.0	58.1	54.1	2.43
Ardrossan.....	62.0	49.7	55.1	52.0	2.62
Donaghadee.....	60.9	48.9	55.0	52.8	2.04
Holyhead.....	61.7	51.0	55.6	53.1	2.10
Liverpool.....	63.6	50.9	56.6	52.6	1.96
Parsonstown.....	64.0	48.2	55.8	52.2	2.46
Valencia.....	61.7	50.7	56.8	53.8	3.42
Roche's Point.....	64.8	50.8	56.5	53.3	3.26
Pembroke.....	60.3	51.4	55.0	52.9	2.09
Scilly.....	61.1	53.0	57.2	55.0	1.94
Jersey.....	64.8	52.6	58.7	55.9	1.83
Hurst Castle.....	63.9	51.9	57.6	55.4	2.07
Dover.....	63.3	53.1	58.6	55.1	1.72
LONDON.....	69.3	50.6	59.2	54.8	2.12
Oxford.....	67.1	49.4	56.9	53.4	2.28
Cambridge.....	68.8	48.5	58.0	54.7	2.41
Yarmouth.....	62.2	51.4	56.9	54.1	2.02

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





# GENERAL SITUATION AT 8 A.M.

## PRESSURE

Highest, 30.1 in. and upwards, over the southern parts of Germany and the Iberian Peninsula.  
 Lowest, 29.5 in. and less, in a depression lying off the west of Ireland; 29.8 in. and less, in another disturbance lying over the Baltic.  
 Gradients slight generally.  
 Barometer falling in nearly all places — most in France and the southern parts of our Islands.

## TEMPERATURE

Highest, 70° at Perpignan, 65° at Bournemouth and Rochefort, 64° in London and at Cambridge, Biarritz, and Nice, and 63° at Loughborough and Dungeness.  
 Lowest, 48° at Stockholm, 49° at Wick, 50° at Lumburg Head, 52° at Exeter, and 53° at Hudsons, Donaghadee, Bournemouth and Bude Head.  
 The highest maxima registered over our Islands yesterday were 71° in London and at Cambridge, and 68° at Exeter, Loughborough, Oxford and Yarmouth.

## WIND

SE or S over the greater part of our Islands and France; light or moderate in force generally, but strong at Valencia Island.  
 E in the west of Norway; strong from the N. in Sweden, light from the W. at most of the German stations.  
 Chiefly W. in the south of France, but strong in force at Biarritz.

## WEATHER

Fine over the eastern parts of Great Britain, as well as over the Netherlands, South Germany and the east and south of France, and at some of the Scandinavian stations.  
 Breeze in the western parts of our Islands and France, with fog at Bournemouth, rain at Exeter, and distant thunder at Exeter.  
 Rain fell yesterday at some of our western and northern stations, and solar halo were seen in the south of England.

## SEA

Slight or smooth generally, but rough at Valencia and rather rough at Lumburg Head.

## PROBABLE CHANGES IN SYSTEM NOW PREVALENT

The shallow depressions which exist to the southward of our Islands will probably advance over England, and occasion unsettled rainy weather with local thunderstorms.

## FORECASTS

For the 24 hours ending at NOON on 11<sup>th</sup> JUNE 1890.

### DISTRICTS.

### FORECASTS.

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

SE<sup>2</sup> winds, light; fine to cloudy and unsettled, possibly thunder.

Same as No 5

SE<sup>2</sup> and S<sup>2</sup> winds, light; unsettled, some rain, thunderstorms locally.

### DISTRICTS.

### FORECASTS.

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

SE<sup>2</sup> winds, light; cloudy, some rain.

S<sup>2</sup> and SW<sup>2</sup> winds, moderate; unsettled some rain, thunder locally.

SE<sup>2</sup> and S<sup>2</sup> 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.

	THER:							THER:						
	BAR:	D.	W.	D.	F.	WEA.	SEA	BAR:	D.	W.	D.	F.	WEA.	SEA
Skudesnaes ...	29.99	54	48	NW	4	b	3	Holyhead ...	29.98	53	53	SE	4	b
Sumburgh Head ...	29.93	48	47	ESE	4	r	5	Valencia ...	29.83	58	56	SE	6	c
Stornoway ...	29.78	60	59	SW	3	c	3	Scilly ...	30.00	60	59	SE	4	c
Aberdeen ...	29.83	65	57	SW	4	c	3	Jersey ...	30.11	63	58	SW	3	b
Shields ...	29.88	64	58	SW	1	c	2	Dungeness ...	30.07	60	56	WSE	5	b
Ardrossan ...	29.89	58	55	S	2	c	1	London ...	30.04	69	60	WSE	3	c
Malin Head ...	29.85	57	54	N	1	b	1	Yarmouth ...	30.02	67	58	W	2	bc
Mullaghmore ...	29.83	63	54	S	4	c	2	Rochefort ...	30.07	76	68	NW	2	bc
Belmullet ...	29.81	59	53	SE	2	c	*							

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

Weather fair over the greater part of Europe, but dull in some localities, more especially over Russia, Sweden, the Baltic, and Eastern Germany. Fog reported in the Straits of Dover, as well as at Helsingfors, Wiby, and Kiel, and rain at Rode and Hermannstadt. Rain falling later in several of the more western and northern parts of the Kingdom (with thunder at Aberdeen) and solar halos seen at some of the Channel stations.

Temperature highest 77° at Oran and Algiers and Constantinople, 75° at Madrid, 73° at Nemours; above 65° in most parts of Southern and Eastern Europe, and reaching 60° in some of the eastern parts of Great Britain. Lowest 47° at Wiby, 48° at Archangel, Rode, and Sumburgh Head, and 49° at Uleaborg and Christiansund. Thermometers rising later to 70° or a little above at some of the English stations, and to 80° or more in several parts of France, the highest reading of all being 86° at Perpignan.

Wind light to moderate from the SE or SW over the greater part of our Islands, but SE in Caithness and the Shetlands. Strong from the NE or N over Finland and Sweden. Moderate to strong from the NW on the eastern shores of the North Sea, and also over Eastern Germany and Austria; light from SW or S over Central Russia. Chiefly N in Italy, and NE in Spain and the south of France, but S or SE in Algeria. Subsequently increasing to a moderate to strong gale from the SE on the west coast of Ireland.

Barometer highest 30.2 ins: and upwards, in an anticyclone the central portion of which lay over South Germany and Central France. Lowest, 29.5 ins: and less, in a well defined depression lying over the Gulf of Riga; 29.8 ins: and less, in the west and north of Scotland, and also in a shallow disturbance lying over the western parts of the Black Sea; 30.0 ins: and less, in another system over the Gulf of Genoa. New depression advancing later to the west of Ireland, and shallow secondary disturbances beginning to form over the east and south of France.

### EXPLANATION OF COLUMNS GIVEN ON PAGE 1.

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

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

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

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



# DAILY WEATHER REPORT.

for *Wednesday, 11<sup>th</sup> June, 1890.*  
*Issued by the Meteorological Office, 63, Victoria Street, London. R. H. SCOTT, Secretary.*

Issued by the Meteorological Office, 55, Victoria Street, London. R. H. SCOTT, Secretary.																		
STATIONS.	YESTERDAY EVENING.					8 A.M. TO DAY.										PAST 24 HOURS.		
	BAROM.	TEMP.	WIND.		Weather.	BAROMETER.		SHADE TEMP.			WIND.		Sea. (0 to 3.)	SHADE TEMP.		Amount of Rainfall.		
	Reading at 32° F. and Sea Level.	Dry.	Dir.	Force. (0 to 12.)		Reading at 32° F. and Sea Level.	Difference from 8 a.m. yesterday.	Dry.	Wet.	Difference from 8 a.m. yesterday.	Dir.	Force. (0 to 12.)		Max.	Min.			
SCANDINAVIA.																		
Haparande ...	30.23	59	W	0	bc	30.11	+ .03	56	52	- 2	S	2	b	*	70	41	-	
Hernösand ...	30.01	56	NE	4	b	30.02	+ .03	54	48	- 1	ENE	4	b	*	64	46	-	
Stockholm ...	29.88	50	NNE	2	r	29.85	+ .06	51	50	+ 3	ENE	6	r	*	52	45	0.08	
Wisby ...	29.78	48	NNE	4	r	29.76	+ .03	50	49	+ 1	NNE	2	r	*	54	46	0.12	
Bodö ...	30.01	55	ENE	2	c	29.98	- .11	66	53	+ 13	E	2	b	1	?	50	-	
Christiansund	29.91	59	NNE	3	b	29.84	- .13	60	53	+ 5	SE	3	b	1	61	52	-	
Skudesnaes ...	29.89	51	WNW	1	b	29.79	- .18	60	50	+ 7	ENE	2	c	2	?	46	-	
Christiania Fjord (Færdier)	29.89	54	NNE	2	r	29.86	- .10	51	49	- 1	NNE	4	0	?	54	50	0.04	
Skagen (The Scaw)	29.85	55	NE	1	0	29.78	- .16	55	52	+ 1	E	2	c	2	66	52	0.04	
Fanö ...	29.85	53	E	2	c	29.70	- .27	55	54	0	E	4	c	*	59	52	-	
BRITISH ISLANDS.																		
Sumburgh Head	29.82	49	ESE	2	b	29.76	- .14	48	48	- 2	ENE	2	r	4	52	46	-	
Stornoway ...	29.61	61	E	4	0	29.55	- .24	55	55	+ 1	SE	4	0	3	64	50	0.03	
Wick ...	29.74	55	S	3	b	29.67	- .15	51	51	- 6	SE	5	om	3	61	47	-	
Nairn ...	29.64	62	SE	1	bc	29.58	- .22	55	54	- 7	W	0	r	1	69	53	0.04	
Aberdeen ...	29.75	53	E	2	bc	29.65	- .21	49	49	- 10	SE	4	om	4	61	49	-	
Leith ...	29.64	57	E	2	c	29.54	- .30	52	52	- 7	NE	1	or	*	70	51	0.20	
Shields ...	29.68	52	E	4	om	29.56	- .31	52	52	- 6	W	0	r	2	58	50	0.20	
Spurn Head ...	29.66	59	ESE	6	0	29.55	- .33	56	53	- 4	WSW	4	c	4	60	53	0.44	
York ...	29.64	65	SE	2	0	29.56	- .31	55	54	- 6	WSW	2	c	*	72	50	0.37	
Loughborough	29.67	60	SSW	2	0	29.62	- .25	56	54	- 7	SW	2	c	*	73	49	0.15	
Ardrossan ...	29.60	56	E	1	r	29.53	- .25	55	54	- 2	SE	2	0	1	67	52	0.46	
Malin Head ...	29.47	58	SSE	4	ag	29.44	- .16	54	52	- 2	SE	3	cw	1	63	51	-	
Mullaghmore ...	29.45	57	SSE	4	cp	29.40	- .18	57	52	+ 1	SSE	4	c	2	63	51	0.03	
Belmullet ...	29.40	57	SW	4	bc	29.33	- .18	54	52	- 1	S	4	0	*	63	51	0.18	
Donaghadee ...	29.57	54	S	2	r	29.50	- .25	54	53	+ 1	S	2	0	0	59	52	0.02	
Liverpool (Bidston)	29.62	55	W	2	r	29.56	- .24	58	54	- 1	SSE	1	c	3	68	49	0.71	
Holyhead ...	29.62	54	SSW	4	cm	29.54	- .22	55	53	- 3	SW	4	cgm	4	63	52	0.01	
Parsonstown ...	29.50	56	W	0	c	29.45	- .15	56	55	- 2	SE	1	c	*	66	50	0.04	
Valencia ...	29.45	56	S	6	op	29.40	- .06	54	53	- 3	WSW	6	ogp	6	58	52	0.55	
Roche's Point...	29.53	57	SW	5	bc	29.50	- .11	57	57	+ 2	SW	5	p	4	59	51	0.20	
Pembroke (St. Ann's Hd.)	29.65	55	SSW	4	bc	29.61	- .12	55	54	+ 2	SSW	4	cpq	4	56	51	0.25	
Scilly ...	29.68	58	SSW	5	c	29.68	- .02	53	53	- 2	WSW	6	cq	4	62	51	0.04	
Prawle Point ...	29.75	55	WSW	4	bc	29.70	- .07	55	54	+ 2	W	6	c	4	56	51	0.21	
Jersey (St. Aubin's)	29.81	59	W	3	c	29.81	+ .01	57	55	- 2	SW	4	cgm	3	59	54	0.48	
Hurst Castle ...	29.73	57	WSW	4	c	29.70	- .11	57	55	- 5	WSW	6	cq	3	63	55	0.53	
Dungeness ...	29.72	60	WNW	4	r	29.70	- .18	55	54	- 8	W	6	0	4	68	54	0.26	
London ...	29.69	60	SSW	2	0	29.66	- .19	59	55	- 8	SW	2	bc	*	73	49	0.16	
Oxford ...	29.70	55	WSW	2	r	29.65	- .19	56	52	- 4	SW	3	c	*	69	49	0.08	
Cambridge ...	29.70	62	SSE	1	r	29.63	- .23	57	55	- 7	SW	1	0	*	74	50	0.48	
Yarmouth ...	29.70	59	ESE	4	cm	29.63	- .30	59	55	+ 2	WSW	4	bc	3	62	52	0.29	
GERMANY & HOLLAND.																		
Cuxhaven ...	29.93	57	N	2	c	29.66	- .36	55	52	- 4	ESE	3	c	*	62	54	-	
Berlin ...	29.86	65	ENE	2	b	29.73	- .28	64	59	+ 5	SE	3	bc	*	72	54	-	
Wiesbaden ...	*	*	*	*	*	29.86	- .24	62	54	+ 3	SW	4	bc	*	?	59	-	
Munich ...	29.91	58	NE	2	b	29.98	- .14	58	55	0	W	4	0	*	68	50	0.04	
The Helder ...	29.73	62	ENE	2	b	29.64	- .35	56	54	- 2	SW	4	r	3	66	55	0.51	
FRANCE AND BELGIUM.																		
Brussels (8 a.m.)	*	*	*	*	*	29.73	- .20	57	54	- 4	SSW	2	0	*	77	50	0.16	
Cape Gris Nez	?	57	WNW	3	r	?	?	55	53	- 9	W	5	0	*	77	52	2.05	
Paris ...	29.80	60	WSW	2	c	29.91	- .04	56	54	- 6	SW	2	0	*	78	53	0.04	
Brest ...	29.82	60	W	4	c	29.81	+ .01	53	52	- 8	W	8	0	1	66	50	0.08	
Lorient ...	29.79	59	WSW	4	c	29.90	+ .05	57	53	0	W	6	c	5	63	54	0.20	
Rochefort ...	29.95	64	WNW	6	bc	30.00	+ .19	60	58	- 5	W	5	0	*	73	52	-	
Belfort ...	29.94	68	W	2	0	29.98	+ .03	57	48	- 2	W	2	0	*	80	52	0.12	
Lyons ...	29.92	65	W	4	bc	30.04	+ .05	60	53	- 2	WNW	3	bc	*	81	55	0.43	
Nice ...	29.97	67	W	1	bc	29.92	- .09	64	61	0	SSW	2	c	1	75	59	-	
Perpignan ...	29.96	65	NW	3	c	30.07	+ .13	65	56	- 5	W	4	0	*	81	62	0.16	
Biarritz ...	30.07	66	WNW	3	0	30.12	+ .20	60	57	- 4	W	4	r	2	70	57	-	
PENINSULA.																		
Corunna ...	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
Lisbon ...	30.20	66	WNW	3	b	30.26	- .10	60	56	- 2	N	4	bc	5	73	57	-	

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

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



# WEATHER CHARTS

for 8 a.m. on

WEDNESDAY,

11<sup>TH</sup> JUNE.

1890.

## BAROMETER, WIND AND SEA.

### EXPLANATION OF MAP.

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

Changes since previous morning are stated in words.

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

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

→ = forces 5 to 7; → = forces 1 to 4.

○ = dead calm.

**SEA DISTURBANCE**—Where considerable, is shown thus:

▨ = Rough. ▨ = High.

## MEAN HEIGHT OF THE BAROMETER

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

During the 15 Years: 1871—1885.

### STATIONS.

### MEAN READINGS.

STATIONS.	MEAN READINGS.
Sumburgh Head .....	29.862
Stornoway .....	29.852
Wick .....	29.874
Nairn .....	29.880
Aberdeen .....	29.890
Leith .....	29.904
Shields .....	29.928
York .....	29.949
Loughborough .....	29.958
Ardrossan .....	29.909
Donaghadee .....	29.920
Holyhead .....	29.944
Liverpool .....	29.944
Parsonstown .....	29.952
Valencia .....	29.954
Roche's Point .....	29.952
Pembroke .....	29.952
Scilly .....	29.982
Jersey .....	29.994
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## 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.

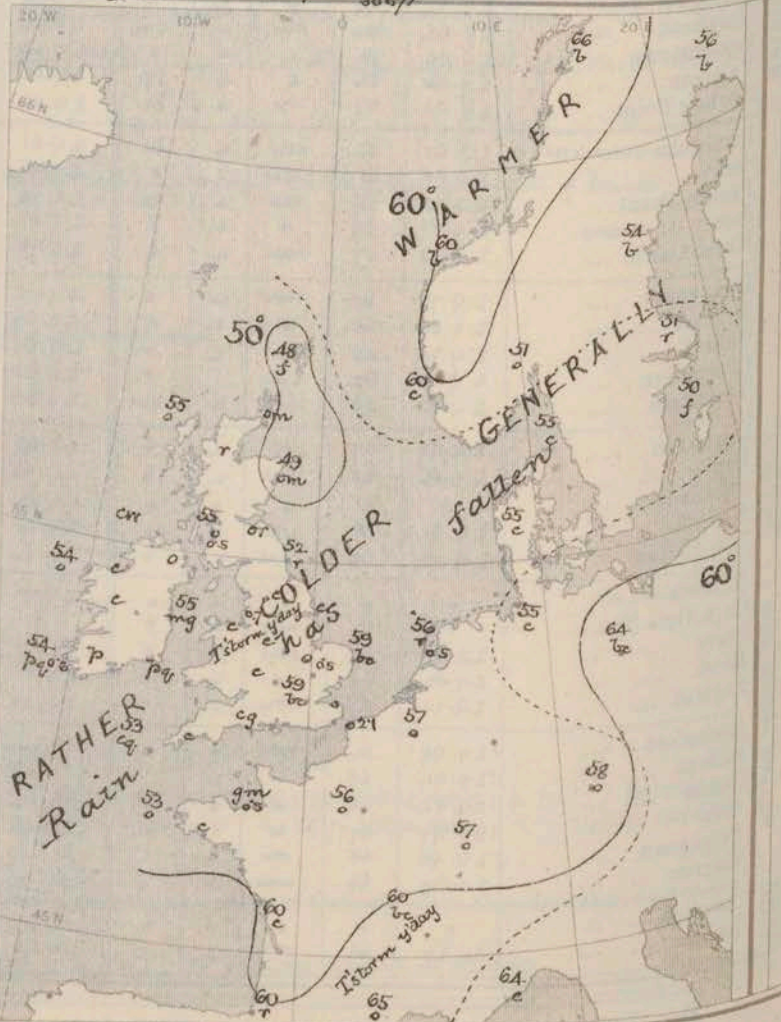
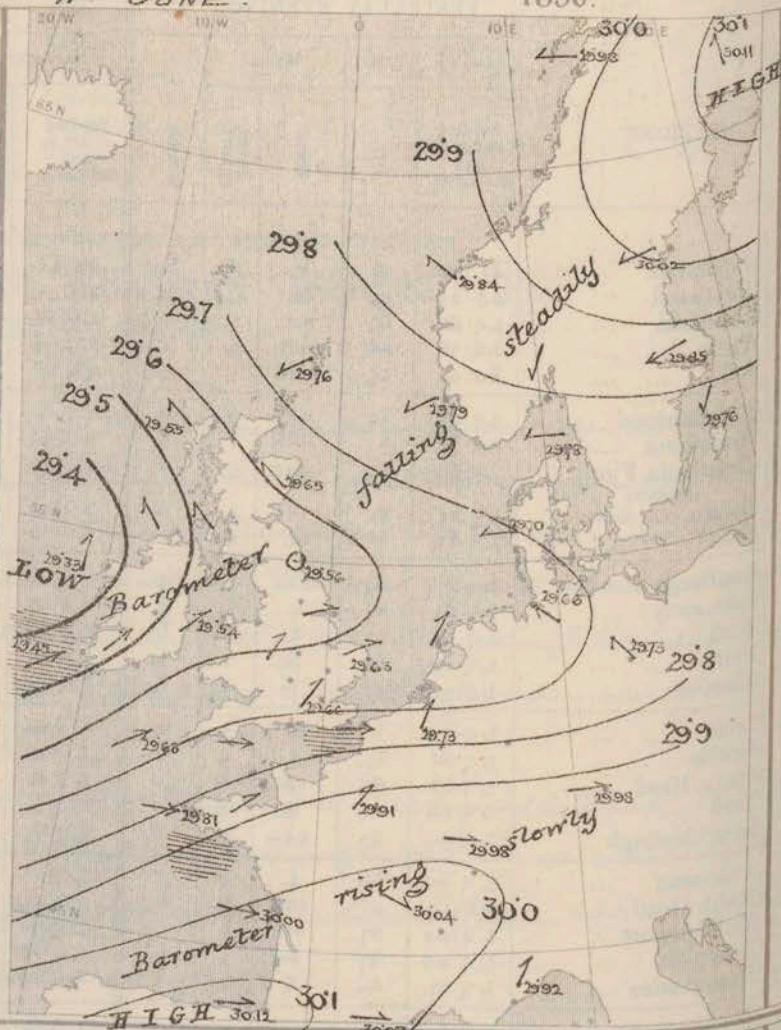
**RAINFALL**—A dotted line separates the districts in which rain has fallen from those where there has been none. Falls of 0.5 in. or more are quoted in figures.

### MEANS OF TEMPERATURE IN SHADE, AND RAINFALL.

(For the month of June.)

STATIONS.	TEMPERATURE.				RAINFALL. (Inches.)
	Daily Max.	Daily Min.	at 8 a.m. Dry.	Wet.	
Sumburgh Head .....	54.5	45.1	50.4	48.7	2.07
Stornoway .....	57.6	46.0	53.3	51.0	2.99
Wick .....	58.8	45.7	53.1	50.4	1.75
Nairn .....	62.1	48.0	54.2	50.4	1.83
Aberdeen .....	61.3	47.5	54.7	50.9	1.88
Leith .....	64.5	48.1	56.0	52.5	1.84
Shields .....	60.9	49.1	54.9	51.9	1.82
York .....	66.2	48.3	56.1	52.7	2.45
Loughborough .....	68.7	49.0	58.1	54.1	2.43
Ardrossan .....	62.0	49.7	55.1	52.0	2.62
Donaghadee .....	60.9	48.9	55.0	52.8	2.04
Holyhead .....	61.7	51.6	55.6	53.1	2.10
Liverpool .....	63.6	50.9	56.6	52.6	1.96
Parsonstown .....	64.0	48.2	55.8	52.2	2.40
Valencia .....	61.7	50.7	56.8	53.8	3.42
Roche's Point .....	64.8	50.8	56.5	53.3	3.20
Pembroke .....	60.3	51.4	55.0	52.9	2.09
Scilly .....	61.1	53.0	57.2	55.0	1.94
Jersey .....	61.8	52.6	58.7	55.9	1.83
Hurst Castle .....	63.9	51.9	57.6	55.4	2.07
Dover .....	63.3	53.1	58.6	55.1	1.72
LONDON .....	69.3	50.6	59.2	54.8	2.12
Oxford .....	67.1	49.4	56.9	53.4	2.28
Cambridge .....	68.8	48.5	58.0	54.7	2.49
Yarmouth .....	62.2	51.4	56.9	54.1	2.02

**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 Portugal; 30.1 ins. and upwards, in the north of Sweden.  
 Lowest, 29.4 ins. and less, in a depression lying off the west of Ireland; 29.6 ins. and less, in a secondary disturbance lying over the northeast of England.  
 Gradients moderate or slight generally. Barometer rising over South Germany and the greater part of France and Spain, but falling elsewhere.

## TEMPERATURE

Highest, 66° (°) at Bodo, 65° at Perpignan, 64° at Berlin and Nice, and 63° at Rostock, Hockefort, Kienitz, Lyons and Lisbon.  
 Lowest, 48° at Lumburg, Had., 49° at Aberdeen, 50° at Wick, and 51° at Stockholm and Nish.  
 The highest maxima registered over our Islands yesterday were 74° at Farnbridge, and 73° in London and Doughty.

## WIND

Weak to strong from the SW<sup>nd</sup> or W<sup>nd</sup> over the southern parts of our Islands and the west of France, moderate from the same quarters over the north of England and the central south of France.  
 Moderate from the SE<sup>nd</sup> in Scotland and from the E<sup>nd</sup> over Scandinavia and Denmark.

## WEATHER

Fair over the greater part of England as well as at the majority of the Continental stations.  
 Showery in Ireland and also at Pembroke; raining in Scotland and the north of England.  
 Thunderstorms occurred yesterday over the central parts of England and France, the largest amount of rain measured this morning was 2.1 ins. at Spitz, 0.7 ins. at Liverpool, 0.6 ins. at Valencia, and 0.5 ins. at Anderson, Jersey, Hunt Castle, and Cambridge.

## SEA

Rough at Valencia and rather rough at Cape St. Naz and Point, but moderate to smooth elsewhere.

## PROBABLE CHANGES IN SYSTEM NOW PREVALENT

The distribution of pressure is favourable for the development of shallow depressions over our Islands and their neighbourhood, and showery weather is likely to continue in most districts.

## FORECASTS

For the 24 hours ending at NOON on 12<sup>th</sup> JUNE 1890.

### DISTRICTS.

### FORECASTS.

- |   |                  |   |
|---|------------------|---|
| 0 | SCOTLAND NORTH   | SE <sup>ly</sup> to S <sup>ly</sup> winds, moderate or fresh; drizzle, rain at times, possibly thunder. |
| 1 | SCOTLAND EAST    |   |
| 2 | ENGLAND N.E.     | SW <sup>ly</sup> winds, light or moderate; fair generally, but local showers.                           |
| 3 | ENGLAND EAST     |   |
| 4 | MIDLAND COUNTIES | SW <sup>ly</sup> and W <sup>ly</sup> winds, fresh or strong; fair generally, but local showers.         |
| 5 | ENGLAND SOUTH    |   |

### DISTRICTS.

### FORECASTS.

- |    |               |   |
|----|---------------|---|
| 6  | SCOTLAND WEST | S <sup>ly</sup> winds, moderate; changeable, some showers.        |
| 7  | ENGLAND N.W.  |   |
| 8  | ENGLAND S.W.  | SW <sup>ly</sup> winds, fresh or strong; unsettled, some showers. |
| 9  | IRELAND NORTH | Varying S <sup>ly</sup> winds; cloudy, showery.                   |
| 10 | IRELAND SOUTH |   |

### WARNINGS

NONE ISSUED.

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



# YESTERDAY'S 2 P.M. REPORTS.

	BAR:	THER:		WIND				SEA		BAR:	THER:		WIND				SEA	
		D.	W.	D.	F.	WEA.					D.	W.	D.	F.	WEA.			
Skudesnaes ...	29.94	65	50	WNW	2	b	2			Holyhead ...	29.66	57	55	SW	4	rgm	3	
Sumburgh Head ...	29.86	51	50	ESE	2	m	4			Valencia ...	29.48	58	55	SSW	6	cm	6	
Stornoway ...	29.68	64	61	S	2	b	2			Scilly ...	29.68	61	59	SSW	5	c	4	
Aberdeen ...	29.81	58	53	SE	2	c	2			Jersey ...	29.80	57	56	WSW	2	0	2	
Shields ...	29.75	56	54	S	4	bc	2			Dungeness ...	29.79	65	60	SSW	3	bc	2	
Ardrossan ...	29.64	67	61	E	2	c	1			London ...	29.73	70	62	SE	3	0	3	
Malin Head ...	29.50	62	56	SSE	6	bc	3			Yarmouth ...	29.80	62	58	SE	4	b	3	
Mullaghmore ...	29.49	63	56	SE	5	c	3			Rochefort ...	29.91	66	62	WNW	6	c	2	
Belmullet ...	29.42	60	54	SSE	4	0	*											

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

Weather fine over the eastern parts of Great Britain, as well as in Finland, the north of Sweden, the Netherlands, and the greater part of Southern Europe. Cloudy or overcast elsewhere, with fog at Berne and Havelberg, and rain in the west of France, as well as at Hermantadt; distant thunder was reported at Jersey. Considerable amounts of rain falling later in many parts of the United Kingdom and France with thunderstorms in some of the Central districts.

Temperature highest 78° at Algiers, 77° at Barcelona, 75° at Oran and Aumale, 73° at La Felle, and 72° at Fes and Cagliari; above 60° in several of the more eastern parts of Great Britain. Lowest 36° at Archangel, 48° at Kuopio, Hangö and Stockholm, 49° at Helsinki and Visby, and 50° at Sumburgh Head. Subsequently rising to between 70° and 75° over the inland parts of Great Britain and to 80° or more at several of the French stations.

Wind SE<sup>ly</sup> or S<sup>ly</sup> over the greater part of our Islands and France, as well as in Western Algeria; light or moderate in force generally but strong at Valencia Island. Moderate from the NE<sup>ly</sup> in Finland; strong from the N<sup>ly</sup> in Sweden, light or moderate from the W<sup>ly</sup> or NW<sup>ly</sup> over Denmark, Germany, and Austria; variable in Italy; SW<sup>ly</sup> to W<sup>ly</sup> over the Spanish Peninsula. Subsequently veering to the SW<sup>ly</sup> or W<sup>ly</sup> over France and the south of England.

Barometer highest 30.1 in. and upwards, over South Germany and also over Tunis and the southwestern parts of the Iberian Peninsula; 30.0 in. and upwards, over Denmark and Lapland. Lowest 29.5 in. and less, in a depression lying to the westward of Ireland; 29.6 in. and less, in another system lying over the Gulf of Riga; shallow secondary disturbances lying over the Bay of Biscay and the west of France. Depression off the west of Ireland and secondary systems moving northwards later, and barometer falling rather decidedly over Great Britain.

### EXPLANATION OF COLUMNS GIVEN ON PAGE 1.

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

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

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

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



# DAILY WEATHER REPORT.

for *Thursday, 16<sup>th</sup> June,* 1890.  
*Issued by the Meteorological Office, 63, Victoria Street, London. R. H. SCOTT, Secretary.*

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STATIONS.	YESTERDAY EVENING.					8 A.M. TO DAY.										PAST 24 HOURS.		
	BAROM.  Reading at 32° F. and Sea Level.	TEMP.  Dry.	WIND.		Weather.	BAROMETER.		SHADE TEMP.			WIND.		Weather.	Sea. (0 to 1.)	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 ...	29.96	61	SW	2	b	29.91	- .20	59	55	+ 3	S	2	b	*	70	48	-	
Hernösand ...	29.96	55	Z	0	b	29.91	- .11	57	51	+ 3	NE	2	bc	*	68	46	-	
Stockholm ...	29.89	50	NE	2	T	29.84	- .01	54	52	+ 3	NE	2	0	*	54	48	0.04	
Wisby ...	29.81	50	ESE	4	bc	29.80	+ .04	51	49	+ 1	N	4	bc	*	72	45	-	
Bodö ...	29.85	62	NE	2	b	29.85	- .13	49	45	- 17	N	2	0	1	66	46	-	
Christiansund	29.81	58	N	3	bc	29.90	+ .06	53	50	- 7	NNE	2	1	2	70	52	-	
Skudesnaes ...	29.74	59	E	1	0	29.84	+ .05	63	55	+ 3	ESE	2	0	2	?	54	-	
Christiania Fjord (Færder)	29.83	55	NNE	3	0	29.85	- .01	55	53	+ 4	N	2	0	1	55	?	0.12	
Skagen (The Seaw)	29.76	57	E	1	0	29.80	+ .02	58	55	+ 3	ESE	1	0	1	64	55	-	
Fanö ...	29.69	52	SE	2	b	29.72	+ .02	59	57	+ 4	E	4	c	*	63	50	0.04	
Sumburgh Head	29.77	53	ESE	2	c	29.88	+ .12	50	49	+ 2	NE	4	0	5	55	44	0.19	
Stornoway ...	29.67	55	E	5	b	29.91	+ .36	52	52	- 3	E	5	0	5	60	49	0.03	
Wick ...	29.74	51	SE	1	0	29.88	+ .21	53	52	+ 2	SE	2	0	2	57	47	0.03	
Nairn ...	29.66	54	E	4	c	29.82	+ .24	51	50	- 4	E	4	0	4	59	50	0.10	
Aberdeen ...	29.65	51	NE	4	og	29.77	+ .12	50	49	+ 1	NNE	6	ogp	5	53	49	0.13	
Leith ...	29.58	52	ESE	1	T	29.68	+ .14	51	51	- 1	NE	4	T	*	58	48	0.65	
Shields ...	29.52	51	NNE	2	T	29.51	- .05	52	52	0	N	1	d	2	58	49	0.80	
Spurn Head ...	29.51	54	WNW	1	c	29.58	+ .03	56	54	0	SSE	1	bc	2	60	53	0.01	
York ...	29.51	57	N	1	0	29.58	+ .02	57	54	+ 2	N	1	c	*	65	50	0.14	
Loughborough	29.55	57	SW	1	c	29.61	- .01	52	51	- 4	NNE	1	cgw	*	67	42	0.05	
BRITISH ISLANDS.																		
Ardrossan ...	29.54	55	ESE	4	0	29.70	+ .17	56	52	+ 1	NNE	3	0	2	59	50	0.06	
Malin Head ...	29.50	55	E	4	cm	29.80	+ .36	53	50	- 1	N	4	0	2	59	51	0.03	
Mullaghmore ...	29.48	57	WNW	3	cp	29.82	+ .42	55	52	- 2	WNW	4	0	2	61	52	0.25	
Belmullet ...	29.51	58	N	2	bc	29.89	+ .56	56	54	+ 2	N	2	0	*	62	53	-	
Donaghadee ...	29.51	55	ESE	2	bc	29.74	+ .24	51	50	- 3	NE	4	0	2	58	50	0.02	
Liverpool (Bidston)	29.52	59	NW	1	c	29.62	+ .06	56	53	- 2	NW	2	c	3	63	53	0.08	
Holyhead ...	29.49	55	S	3	b	29.68	+ .14	55	52	0	N	4	c	3	60	52	-	
Parsonstown ...	29.46	58	Z	0	c	29.80	+ .35	54	53	- 2	NW	1	0	*	61	49	0.22	
Valencia ...	29.57	55	W	6	cp	29.90	+ .45	56	55	+ 2	NW	4	ogm	5	59	52	0.16	
Roche's Point...	29.48	55	W	5	p	29.79	+ .29	57	54	0	N	4	c	4	60	52	0.30	
Pembroke (St. Ann's Hd.)	29.51	54	SSW	5	bc	29.68	+ .07	54	54	- 1	WNW	4	bc	3	56	49	0.05	
Scilly ...	29.66	55	WNW	6	cm	29.68	0.00	55	55	+ 2	WNW	6	cp	5	59	53	0.60	
Prawle Point ...	29.66	53	W	6	c	29.62	- .08	61	57	+ 6	WNW	3	bc	2	61	50	0.33	
Jersey (St. Aubin's)	29.77	57	W	6	bc	29.61	- .20	55	54	- 2	WSW	5	cgmt	4	59	53	0.18	
Hurst Castle ...	29.67	56	WSW	6	c	29.58	- .12	59	57	+ 2	ESE	1	c	4	62	54	0.02	
Dungeness ...	29.62	57	WSW	6	bc	29.60	- .10	56	54	+ 1	WSW	5	bc	3	61	53	-	
London ...	29.61	55	WSW	2	c	29.61	- .05	57	54	- 2	Z	0	c	*	64	54	0.30	
Oxford ...	29.60	54	WNW	4	bc	29.60	- .05	55	53	- 1	SSW	1	0	*	62	50	0.09	
Cambridge ...	29.57	62	SSW	1	0	29.62	- .01	57	54	0	SW	1	0	*	67	47	0.02	
Yarmouth ...	29.57	58	SW	2	c	29.62	- .01	56	54	- 3	S	2	b	2	62	51	0.21	
GERMANY & HOLLAND.																		
Cuxhaven ...	29.71	57	ESE	1	b	29.71	+ .05	55	54	0	Z	0	m	*	64	54	0.12	
Berlin ...	29.77	63	NW	3	bc	29.74	+ .01	64	60	0	SSE	2	b	*	72	55	-	
Wiesbaden ...	*	*	*	*	*	29.78	- .08	58	54	+ 4	SW	4	c	*	61	54	0.04	
Munich ...	29.93	54	SW	2	0	29.91	- .07	49	48	- 9	SW	3	r	*	61	48	0.79	
The Helder ...	29.63	57	SW	2	0	29.67	+ .03	58	55	+ 2	S	1	c	1	64	52	-	
FRANCE AND BELGIUM.																		
Brussels (9 a.m.)	*	*	*	*	*	29.65	- .08	53	50	- 4	SSW	1	0	*	63	49	0.24	
Cape Gris Nez	?	55	W	6	bc	?	?	55	53	0	W	5	0	5	77	52	0.08	
Paris ...	29.80	56	SSW	1	0	29.77	- .14	53	51	- 3	SSW	3	0	*	77	45	0.24	
Brest ...	29.86	58	WNW	6	0	29.72	- .09	56	54	+ 3	NW	5	0	6	66	52	-	
Lorient ...	29.89	54	WNW	6	bc	29.76	- .14	54	53	- 3	W	7	0	7	59	52	0.08	
Rochefort ...	30.00	61	W	6	0	29.90	- .10	59	57	- 1	W	6	c	*	64	50	0.12	
Belfort ...	29.90	62	ESE	1	0	29.85	- .13	56	47	- 1	W	1	0	*	75	54	0.20	
Lyons ...	29.93	66	N	1	c	29.95	- .09	55	53	- 5	S	1	r	*	71	50	0.04	
Nice ...	29.74	72	WNW	3	b	29.79	- .13	66	51	+ 2	SW	2	b	1	75	54	1.58	
Perpignan ...	30.02	68	W	4	0	30.04	- .03	63	55	- 2	WSW	3	0	*	77	56	-	
Biarritz ...	30.17	64	NW	4	c	30.08	- .04	61	57	+ 1	WNW	6	0	4	68	57	0.08	
SPAIN.																		
Corunna ...	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
Lisbon ...	30.27	61	N	5	b	30.24	- .02	62	55	+ 2	N	6	b	5	72	57	-	

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

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



# WEATHER CHARTS

for 8 a.m. on

Thursday, 12<sup>th</sup> June.

1890.

## BAROMETER, WIND AND SEA.

### EXPLANATION OF MAP.

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

Changes since previous morning are stated in words.

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

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

→ = forces 5 to 7; → = forces 1 to 4.

⊙ = dead calm.

**SEA DISTURBANCE**—Where considerable, is shown thus:

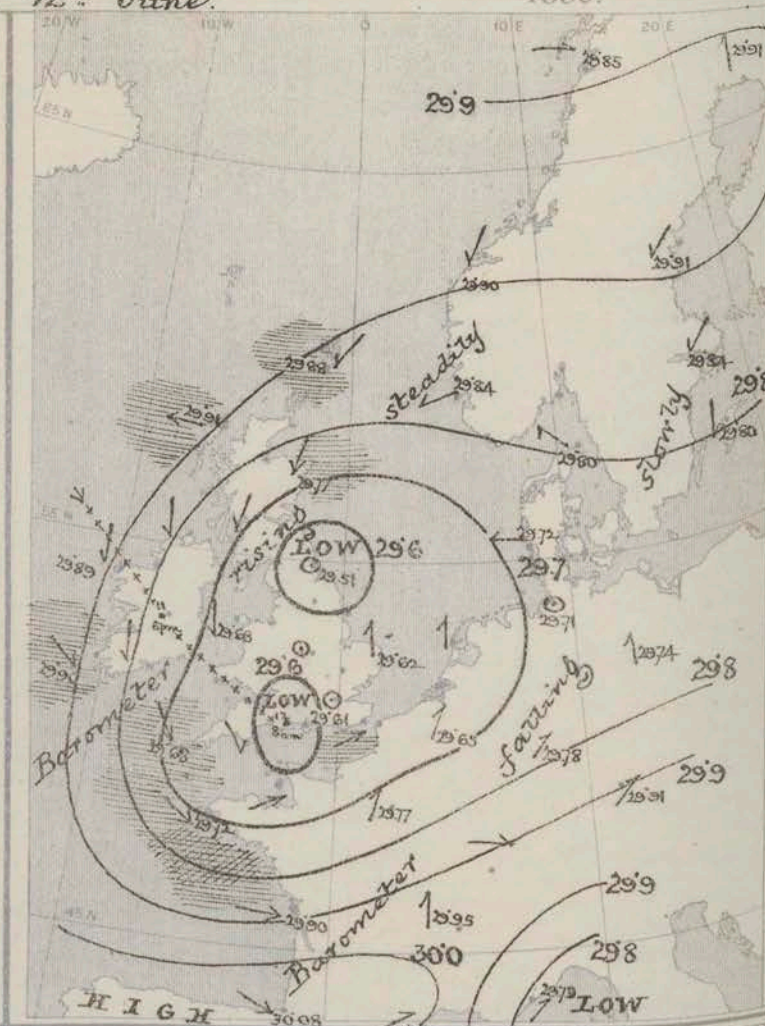
▨ = Rough. ▨ = High.

## MEAN HEIGHT OF THE BAROMETER

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

During the 15 Years: 1871—1885.

STATIONS.	MEAN READINGS.
Sumburgh Head .....	29.862
Stornoway .....	29.852
Wick .....	29.874
Nairn .....	29.880
Aberdeen .....	29.890
Leith .....	29.904
Shields .....	29.928
York .....	29.949
Loughborough .....	29.958
Ardrossan .....	29.909
Donaghadee .....	29.920
Holyhead .....	29.944
Liverpool .....	29.944
Parsonstown .....	29.952
Valencia .....	29.954
Roche's Point .....	29.952
Pembroke .....	29.952
Silly .....	29.982
Jersey .....	29.994
Hurst Castle .....	29.981
Dover .....	29.971
LONDON .....	29.976
Oxford .....	29.964
Cambridge .....	29.967
Yarmouth .....	29.983



## 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.

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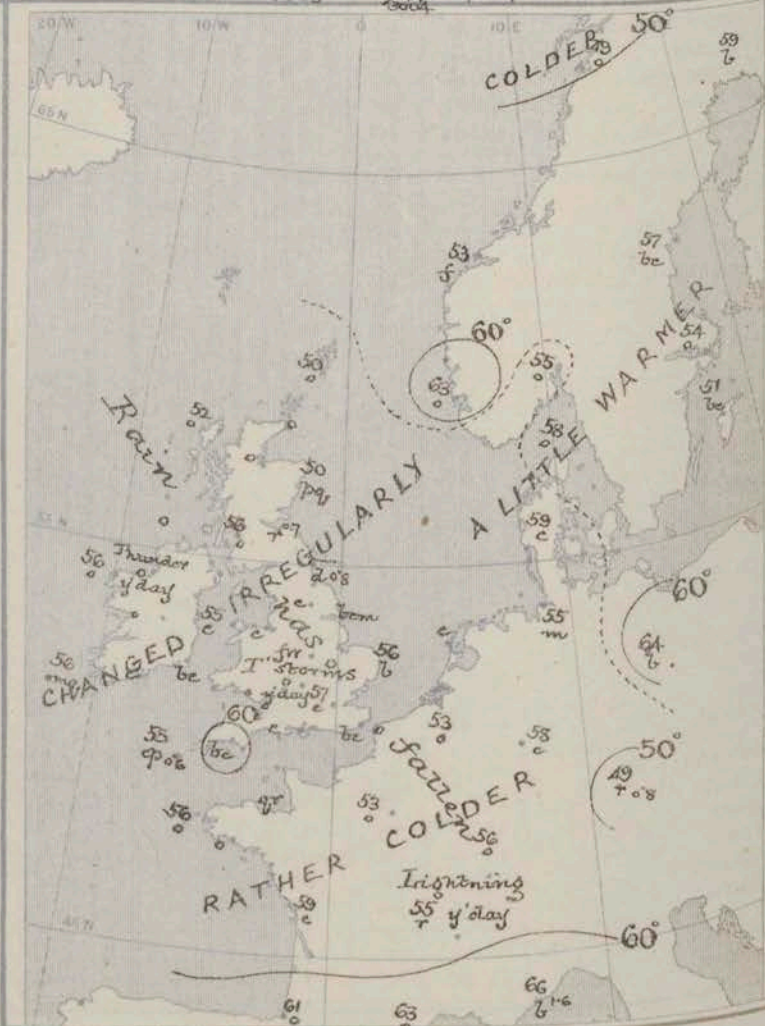
**RAINFALL**—A dotted line separates the districts in which rain has fallen from those where there has been none. Falls of 0.5 in. or more are quoted in figures.

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(For the month of June.)

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	Daily Max.	Daily Min.	at 8 a.m. Dry.	at 8 a.m. Wet.	
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Wick .....	58.8	45.7	53.1	50.4	1.75
Nairn .....	62.1	48.0	54.2	50.4	1.88
Aberdeen .....	61.3	47.5	54.7	50.9	1.88
Leith .....	64.5	48.1	56.0	52.5	1.84
Shields .....	60.9	49.1	54.9	51.9	1.82
York .....	66.2	48.3	56.1	52.7	2.46
Loughborough .....	68.7	49.0	58.1	54.1	2.43
Ardrossan .....	62.0	49.7	55.1	52.0	2.62
Donaghadee .....	60.9	48.9	55.0	52.8	2.04
Holyhead .....	61.7	51.6	55.6	53.1	2.10
Liverpool .....	63.6	50.9	56.6	52.6	1.96
Parsonstown .....	64.0	48.2	55.8	52.2	2.46
Valencia .....	61.7	50.7	56.8	53.8	3.42
Roche's Point .....	64.8	50.8	56.5	53.3	3.26
Pembroke .....	60.3	51.4	55.0	52.9	2.09
Silly .....	61.1	53.0	57.2	55.0	1.94
Jersey .....	64.8	52.6	58.7	55.0	1.83
Hurst Castle .....	63.9	51.9	57.6	55.4	2.07
Dover .....	63.3	53.1	58.6	55.1	1.72
LONDON .....	69.3	56.6	59.2	54.8	2.12
Oxford .....	67.1	49.4	56.9	53.4	2.28
Cambridge .....	68.8	48.5	58.0	54.7	2.49
Yarmouth .....	62.2	51.4	56.9	54.1	2.02

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





# GENERAL SITUATION AT 8 A.M.

## PRESSURE

Highest, 30.2 ins. and upwards, over Portugal.  
 Lowest, 29.6 ins. and less, in two depressions, one lying over the northeast of England, and the other over our southern counties; 29.8 ins. and less, in a depression lying over the Gulf of Genoa.  
 Gradients moderate over France and the west and north of our Islands, but slight elsewhere.  
 Barometer rising in most parts of the United Kingdom and also in Norway and Denmark, but falling elsewhere.

## TEMPERATURE

Highest, 66° at Nice, 64° at Berlin, 63° at Skudsmass and Perpignan, and 61° at Barcelona and Biarritz.  
 Lowest, 43° at Bodo and Munich, 50° at Lumburgh Head and Aberdeen, and 51° at Mity, Nain, Leith and Donaghadee.  
 The highest maxima registered over our Islands yesterday were 67° at Loughborough and Cambridge, and 65° at York.

## WIND

Light from the NE<sup>st</sup> or E<sup>st</sup> in Scandinavia and Denmark, and moderate to strong from the same quarters in Scotland.  
 Moderate from the NW<sup>st</sup> or NW<sup>st</sup> in the west and southwest of our Islands; fresh or strong from the W<sup>st</sup> over the Channel and Bay of Biscay.  
 Light from S. over the Netherlands and east of England, and from SW. in Germany and the east of France.

## WEATHER

Cloudy or overcast in most places, with fog at Christiansund and Loughboro, and rain on our northeast coast, as well as at Jersey, Lyons, and Munich.  
 Rain fell yesterday in nearly all parts of Western Europe, the largest amounts being 1.6 in. at Nice, 0.8 in. at Shields and Munich, and 0.7 in. at Leith. Thunderstorms occurred at some of the English and Irish stations.

## SEA

High at Lorient, rough at Bristol, and rather rough on the extreme south-western, and northern coast of our Islands as well as at Nice and Lisbon.

## PROBABLE CHANGES IN SYSTEM NOW PREVALENT

The small depressions over England are inclined to move eastwards, and are at the same time beginning to fill up. The wind on our eastern and southern coasts will probably shift to the NW<sup>st</sup>, but showery weather is likely to continue for a time in most parts of England.

## FORECASTS

For the 24 hours ending at NOON on 13<sup>th</sup> JUNE 1890.

### DISTRICTS.

### FORECASTS.

- |   |                  |   |
|---|------------------|---|
| 0 | SCOTLAND NORTH   | NE <sup>st</sup> winds, fresh; cloudy, local showers.                                   |
| 1 | SCOTLAND EAST    |   |
| 2 | ENGLAND N.E.     | Variable breezes, finally NE <sup>st</sup> ; changeable, some showers, thunder locally. |
| 3 | ENGLAND EAST     | Same as N°5   |
| 4 | MIDLAND COUNTIES | Same as N°2   |
| 5 | ENGLAND SOUTH    | Variable breezes, finally N <sup>st</sup> ; changeable, some rain, thunder locally.     |

### DISTRICTS.

### FORECASTS.

- |    |               |   |
|----|---------------|---|
| 6  | SCOTLAND WEST | N <sup>st</sup> winds, moderate; fair generally, but local showers. |
| 7  | ENGLAND N.W.  |   |
| 8  | ENGLAND S.W.  | N <sup>st</sup> winds, moderate; fair generally.                    |
| 9  | IRELAND NORTH |   |
| 10 | IRELAND SOUTH |   |

### WARNINGS

NONE ISSUED.

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



# YESTERDAY'S 2 P.M. REPORTS.

	BAR:	THER:		WIND		WEA.	SEA		BAR:	THER:		WIND		WEA.	SEA
		D.	W.	D.	F.					D.	W.	D.	F.		
Skudesnaes ...	29.77	59	53	W	1	0	2		Holyhead ...	29.83	60	SSW	4	6	4
Sumburgh Head ...	29.77	55	52	EHE	2	6	4		Valencia ...	29.50	57	WSW	5	cpm	5
Stornoway ...	29.60	59	58	SE	5	0	4		Scilly ...	29.66	57	WSW	6	eq	4
Aberdeen ...	29.65	52	50	EHE	4	0q	4		Jersey ...	29.79	59	WSW	5	6	4
Shields ...	29.53	52	52	NE	2	T	2		Dungeness ...	29.65	60	W	6	c	4
Ardrossan ...	29.52	56	54	EHE	3	0	2		London ...	29.63	57	SW	4	cp	3
Malin Head ...	29.47	53	52	ESE	3	0	2		Yarmouth ...	29.69	62	W	4	bc	3
Mullaghmore ...	29.42	55	53	WSW	5	0	2		Rochefort ...	30.00	62	W	6	c	2
Belmullet ...	29.43	61	56	Y	2	bc	*								

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

Weather fair over the greater part of England, as well as in Ireland, Denmark, ~~east~~ the north of Scandinavia, Spain, Algeria, and the south of Italy. Cloudy or overcast elsewhere, with rain in Scotland and the north of England, as well as at Stockholm, Kief, St. Petersburg, Leningrad, and passing showers at some of our own southern stations. Thunderstorm reported at Longueville. Considerable falls of rain taking place during day in many parts of Western Europe, with thunderstorms at some of the English, Irish and French stations.

Temperature highest, 78° at Oran and Algiers, 75° at Barcelona, 73° at St. Petersburg, and 72° at Trieste, Cagliari, and Tunis; reaching 60° or more in the west of Norway. Lowest 42° at Archangel, 48° at Kuopio and Sumburgh Head, 49° at Aberdeen, 50° at Nizhny, and 51° at Hangö, Stockholm and Vicks. Subsequently rising to 65° or more at some of the inland English stations and to between 70° and 80° over France.

Wind fresh to strong from the SW<sup>nd</sup> or W<sup>nd</sup> over the southern parts of our Islands and the west of France, moderate from the same quarters over the north of England and the east and south of France. Moderate from SE. in Scotland, and from the E<sup>nd</sup> over Scandinavia, Denmark, and Northern Russia. Light from NW. in Austria and over France, S<sup>3</sup> in Italy; rather variable over the Spanish Peninsula. Subsequently shifting to the NW<sup>nd</sup> or N<sup>nd</sup> in the west of Ireland.

Barometer highest, 30.2 ins. and upwards, over the south of Portugal; 30.1 ins. and upwards over Northern Russia. Lowest 29.4 ins. and less, in a depression lying off the west of Ireland; 29.6 ins. and less, in a shallow secondary disturbance off the northeast of England; 29.8 ins. and less, in a long trough extending eastwards as far as Central Russia. Depression in west subsequently advancing in an east-southeasterly direction across Ireland.

### EXPLANATION OF COLUMNS GIVEN ON PAGE 1.

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

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

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

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



# DAILY WEATHER REPORT.

for *Friday, 13<sup>th</sup> June, 1890.*  
*Issued by the Meteorological Office, 63, Victoria Street, London. R. H. SCOTT, Secretary.*

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

STATIONS.	YESTERDAY EVENING.					8 A.M. TO DAY.										PAST 24 HOURS.		
	BAROM.  Reading at 32° F. and Sea Level.	TEMP.  Dry.	WIND.		Weather.	BAROMETER.		SHADE TEMP.			WIND.		Weather.	Sea. (0 to 9.)	SHADE TEMP.		Amount of Rainfall.	
			Dirce.	Force, (0 to 12.)		Reading at 8 a.m. yesterday.	Difference from 8 a.m. yesterday.	Dry.	Wet.	Difference from 8 a.m. yesterday.	Dirce.	Force, (0 to 12.)			Max.	Min.		
SCANDINAVIA.																		
Haparanda ...	29.74	58	S	2	b	29.75	- .16	58	53	- 1	N	4	b	*	66	48	-	
Hernösand ...	29.83	58	SSW	2	b	29.88	- .03	55	?	- 2	NNW	8	o	*	73	43	-	
Stockholm ...	29.84	55	E	2	c	29.83	- .01	61	54	+ 7	N	2	c	*	63	48	-	
Wisby ...	29.82	48	NE	2	f	29.80	- .02	48	48	- 3	NNE	4	c	*	61	45	-	
Bodö ...	30.00	46	N	2	o	30.05	+ .05	45	41	- 4	WSW	2	c	1	50	41	-	
SCANDINAVIA.																		
Christiansund	30.05	51	NNE	4	o	30.13	+ .08	49	43	- 6	NE	6	bc	4	55	46	-	
Skudesnaes ...	29.91	57	NNW	6	bc	29.93	+ .02	56	53	- 3	NW	5	bc	3	64	50	-	
Christiania Fjord (Færd)	29.85	58	WNW	3	bc	29.88	+ .03	57	53	+ 4	NNW	4	b	1	?	55	-	
Skagen (The Scaw)	29.84	58	ESE	1	bc	29.84	+ .00	59	54	+ 5	NNE	1	bc	0	66	54	-	
Fanö ...	29.82	58	E	4	bc	29.86	+ .04	62	57	+ 5	NW	3	c	*	68	52	-	
SCANDINAVIA.																		
Sumburgh Head	30.06	51	ESE	5	o	30.21	+ .15	48	43	- 5	NNE	3	o	5	55	45	-	
Stornoway ...	30.09	51	NE	5	o	30.30	+ .21	52	51	- 1	E	4	c	4	56	47	-	
Wick ...	30.06	51	NE	3	o	30.28	+ .22	51	48	- 3	NE	4	o	2	56	42	0.02	
Nairn ...	30.04	52	E	4	o	30.25	+ .21	50	48	- 2	ESE	2	o	2	53	50	0.02	
Aberdeen ...	30.00	53	NNE	4	og	30.22	+ .22	49	44	- 5	N	3	og	4	54	48	0.02	
SCANDINAVIA.																		
Leith ...	29.94	51	NE	2	r	30.19	+ .25	52	51	- 1	E	1	o	*	53	48	0.21	
Shields ...	29.85	55	N	2	c	30.15	+ .30	50	50	- 2	N	2	d	2	56	48	0.02	
Spurn Head ...	29.76	56	E	3	b	30.05	+ .71	52	51	- 1	NNE	5	od	4	59	50	0.01	
York ...	29.79	60	N	1	c	30.12	+ .33	54	52	- 2	N	3	o	*	63	50	0.20	
Loughborough	29.78	57	E	1	r	30.10	+ .32	53	51	- 2	N	4	og	*	64	50	0.05	
SCANDINAVIA.																		
Ardrossan ...	29.95	56	NE	2	o	30.19	+ .24	55	53	- 2	Z	0	om	0	61	50	-	
Malin Head ...	29.94	54	N	5	cm	30.22	+ .28	53	52	- 1	NNW	1	cm	2	56	50	-	
Mullaghmore ...	30.00	55	NNW	6	bc	30.24	+ .24	55	52	- 3	N	4	c	2	60	51	-	
Belmullet ...	30.04	55	NNE	3	o	30.24	+ .20	54	52	- 2	NNE	1	o	*	58	53	-	
Donaghadee ...	29.90	54	NE	5	c	30.22	+ .32	56	55	- 1	NE	4	bc	3	57	50	0.02	
SCANDINAVIA.																		
Liverpool (Bidston)	29.78	58	NNW	1	c	30.14	+ .36	56	52	- 4	N	1	o	2	59	50	-	
Holyhead ...	29.78	54	NNW	5	ogm	30.16	+ .38	54	52	- 2	NNE	3	c	3	56	52	0.01	
Parsonstown ...	29.94	62	NW	2	c	30.21	+ .27	58	56	- 2	Z	0	c	*	63	51	-	
Valencia ...	30.08	54	NNW	3	ogm	30.28	+ .20	56	54	- 2	NNW	2	o	2	61	52	-	
Roche's Point...	29.96	62	NNW	5	bc	30.20	+ .24	58	54	- 4	N	4	bc	4	63	53	-	
SCANDINAVIA.																		
Pembroke (St. Ann's Hd.)	29.86	54	NW	4	c	30.13	+ .27	57	55	- 2	N	2	b	2	59	51	0.02	
Scilly ...	29.89	57	N	4	c	30.08	+ .11	56	54	- 2	N	4	o	3	57	53	-	
Prawle Point ...	29.84	60	NNW	4	c	30.04	+ .16	60	57	- 3	NE	4	bcp	3	64	50	0.01	
Jersey (St. Aubin's)	29.81	58	NNW	4	ogm	30.01	+ .19	57	54	- 3	NW	3	cm	3	61	53	0.02	
Hurst Castle ...	29.77	57	NNW	2	cp	30.03	+ .26	56	55	- 1	NNE	3	c	3	65	53	0.06	
SCANDINAVIA.																		
Dungeness ...	29.70	57	WSW	3	bc	29.94	+ .24	56	54	- 2	NE	4	o	2	61	52	-	
London ...	29.72	60	N	1	c	30.01	+ .29	54	54	- 2	NNW	1	r	*	62	52	0.65	
Oxford ...	29.80	54	NW	1	c	30.06	+ .26	54	52	- 2	N	3	o	*	67	50	0.04	
Cambridge ...	29.75	62	NE	1	bc	30.04	+ .29	53	52	- 1	N	2	o	*	68	50	0.25	
Yarmouth ...	29.76	61	E	3	b	29.96	+ .20	53	52	- 1	N	4	or	4	61	52	0.32	
SCANDINAVIA.																		
Cuxhaven ...	29.77	55	NE	1	r	29.80	+ .03	55	54	- 1	NNE	3	bc	*	63	55	0.28	
Berlin ...	29.76	59	NNW	3	r	29.73	- .03	57	55	- 2	NW	3	r	*	72	55	0.35	
Wiesbaden ...	*	*	*	*	*	29.85	+ .09	55	51	- 4	Z	0	b	*	64	46	-	
Munich ...	29.86	55	SW	4	b	29.91	+ .05	54	49	- 5	NNW	5	o	*	63	46	0.04	
The Helder ...	29.77	55	SW	1	o	29.88	+ .11	56	55	- 1	NE	1	r	2	59	55	0.63	
SCANDINAVIA.																		
Brussels (9 a.m.)	*	*	*	*	*	29.86	+ .21	58	54	- 4	NW	1	bc	*	61	48	0.08	
Cape Gris Nez	?	54	NNW	1	c	?	?	56	54	- 2	N	4	c	3	63	50	0.08	
Paris ...	29.74	59	SSE	2	c	29.92	+ .18	53	52	- 1	NW	2	o	*	?	52	0.16	
Brest ...	29.93	57	NNW	3	o	30.04	+ .11	56	55	- 1	NNW	4	o	3	64	52	-	
Lorient ...	29.93	56	NNW	5	o	30.06	+ .13	55	54	- 1	NNW	3	m	4	57	54	-	
SCANDINAVIA.																		
Rochefort ...	29.94	59	NNW	6	r	30.06	+ .12	58	58	- 2	NW	5	o	*	63	50	0.20	
Belfort ...	29.83	62	N	1	b	29.85	+ .02	60	52	- 8	NW	1	o	*	70	56	0.32	
Lyons ...	29.90	58	N	3	bc	29.99	+ .09	52	50	- 2	WSW	2	r	*	69	51	0.12	
Nice ...	29.76	69	NW	6	b	29.81	+ .05	64	51	- 13	NNE	5	b	2	77	57	-	
Perpignan ...	30.00	67	NNW	5	c	30.11	+ .11	63	54	- 9	NW	4	bc	*	77	57	-	
Biarritz ...	30.16	61	NNW	6	r	30.20	+ .04	60	58	- 2	NW	5	o	6	66	55	0.08	
SCANDINAVIA.																		
Corunna ...	*	*	*	*	*	?	?	?	?	?	?	?	?	?	?	?	?	?
Lisbon ...	30.22	65	NNW	5	b	30.22	- .02	60	53	- 7	N	6	b	4	72	57	-	

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

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



# WEATHER CHARTS

for 8 a.m. on

Friday, 13<sup>th</sup> June.

1890.

## BAROMETER, WIND AND SEA.

### EXPLANATION OF MAP.

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

Changes since previous morning are stated in words.

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

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

**SEA DISTURBANCE**—Where considerable, is shown thus:

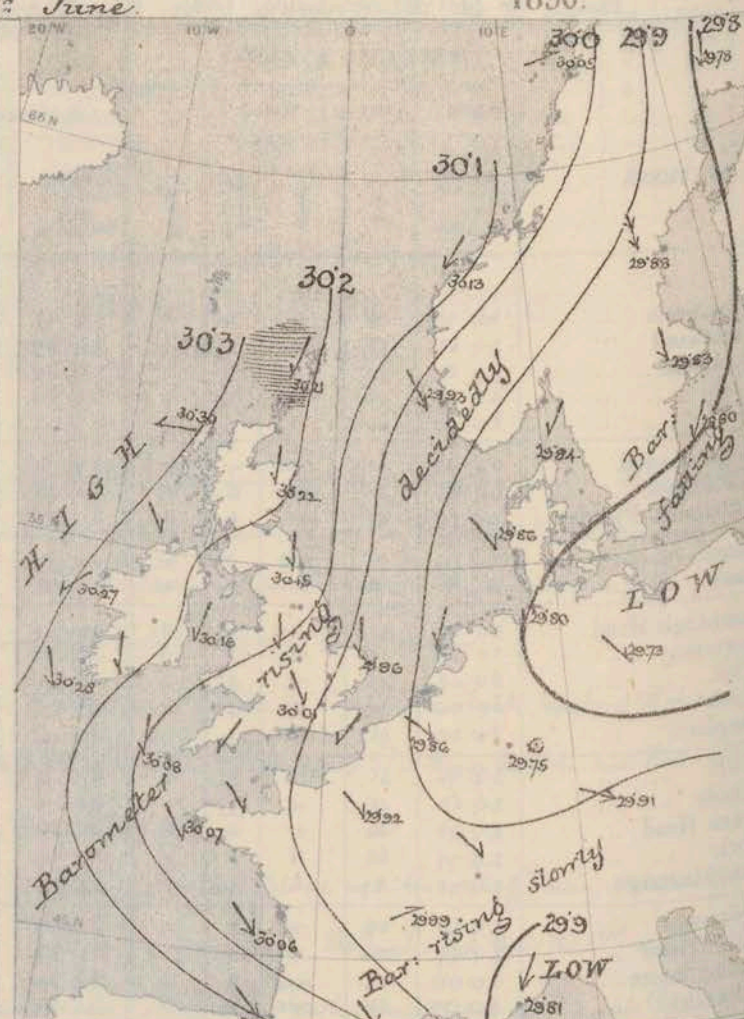
▨ = Rough. ▨ = High.

## MEAN HEIGHT OF THE BAROMETER

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

During the 15 Years: 1871—1885.

STATIONS.	MEAN READINGS.
Sumburgh Head	29.862
Stornoway	29.852
Wick	29.874
Nairn	29.880
Aberdeen	29.890
Leith	29.904
Shields	29.928
York	29.949
Loughborough	29.958
Ardrossan	29.909
Donaghadee	29.920
Holyhead	29.944
Liverpool	29.944
Parsonstown	29.952
Valencia	29.954
Roche's Point	29.952
Pembroke	29.952
Silly	29.982
Jersey	29.994
Hurst Castle	29.981
Dover	29.971
LONDON	29.976
Oxford	29.964
Cambridge	29.967
Yarmouth	29.963



## 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.

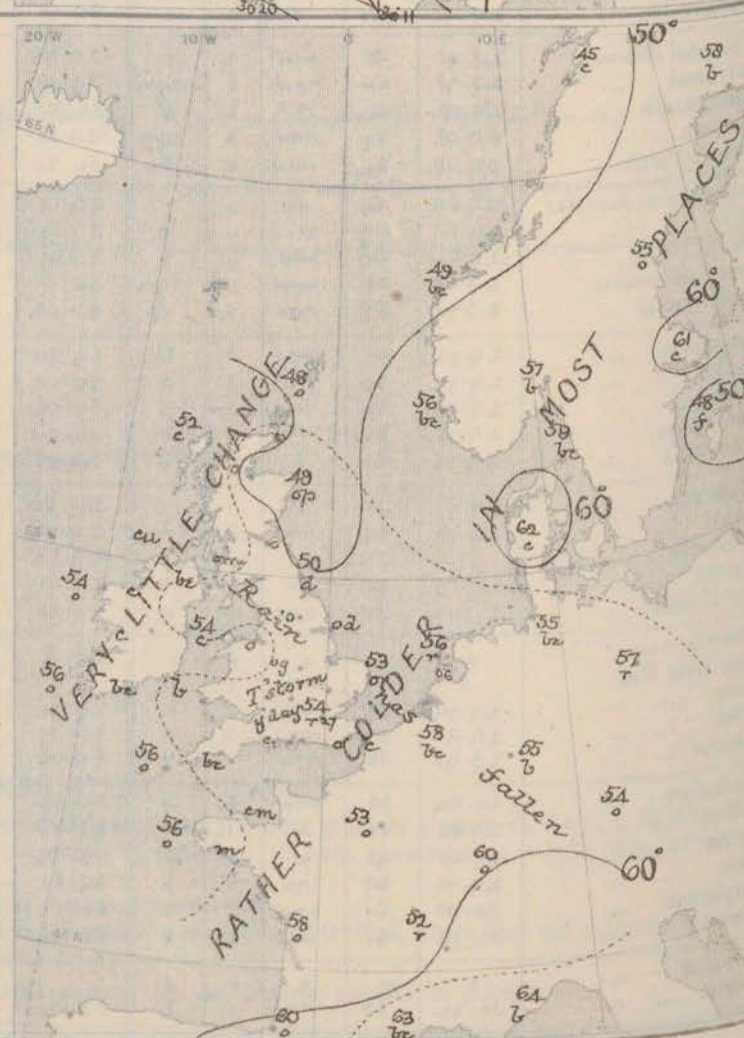
**RAINFALL**—A dotted line separates the districts in which rain has fallen from those where there has been none. Falls of 0.5 in. or more are quoted in figures.

### MEANS OF TEMPERATURE IN SHADE, AND RAINFALL.

(For the month of June.)

STATIONS.	TEMPERATURE.				RAINFALL. (Inches.)
	Daily Max.	Daily Min.	at 8 a.m.		
			Dry.	Wet.	
Sumburgh Head.....	51.5	45.1	50.4	48.7	2.07
Stornoway .....	57.6	46.0	53.3	51.0	2.99
Wick.....	58.8	45.7	53.1	50.4	1.75
Nairn.....	62.1	48.0	54.2	50.4	1.88
Aberdeen.....	61.3	47.5	54.7	50.9	1.88
Leith.....	64.5	48.1	56.0	52.5	1.84
Shields.....	60.9	49.1	54.9	51.9	1.82
York.....	66.2	48.3	56.1	52.7	2.46
Loughborough .....	68.7	49.0	58.1	54.1	2.43
Ardrossan.....	62.0	49.7	55.1	52.0	2.62
Donaghadee.....	60.9	48.9	55.0	52.8	2.04
Holyhead.....	61.7	51.6	55.6	53.1	2.10
Liverpool.....	63.6	50.9	56.6	52.6	1.96
Parsonstown .....	64.0	48.2	55.8	52.2	2.46
Valencia.....	61.7	50.7	56.8	53.8	3.42
Roche's Point.....	64.8	50.8	56.5	53.3	3.26
Pembroke.....	60.3	51.4	55.0	52.9	2.09
Silly.....	61.1	53.0	57.2	55.0	1.94
Jersey.....	64.8	52.6	58.7	55.9	1.83
Hurst Castle .....	63.9	51.9	57.6	55.4	2.07
Dover.....	63.3	53.1	58.6	55.1	1.72
LONDON.....	60.3	50.6	59.2	54.8	2.12
Oxford.....	67.1	49.4	56.5	53.4	2.28
Cambridge.....	68.8	48.5	58.0	54.7	2.49
Yarmouth.....	62.2	51.4	56.9	54.1	2.02

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





# GENERAL SITUATION AT 8 A.M.

## PRESSURE

Highest, 30.30 in. at Lisbon; 30.2 in. and upwards, in the west and north of our Islands generally, and also in Portugal.  
Lowest, 29.8 in. and less, over Ireland, the Baltic and North Germany.

## TEMPERATURE

Gradient slight. Barometer rising in all localities excepting the south of Sweden and some parts of Germany.

Highest, 64° at Nice, 63° at Perpignan, 62° at Paris, 61° at Stockholm, and 60° at Kjöbenhavn, Riga and Lissabon.

Lowest, 45° at Rodez, 48° at Lumburg, Had, 49° at Christiania and Aberdeen, and 50° at Nam and Shields.

The highest maxima registered over our Islands yesterday were 68° at Lamlige, and 67° at Loughborough and Oxford.

## WIND

NE<sup>4</sup> in the north of Scotland, and N<sup>4</sup> in other parts of the United Kingdom, as well as in Scandinavia and Denmark; light or moderate in force generally, but a gale reported at Hovisand.

NW<sup>4</sup> over France, Belgium, and Germany.

Fine at several of our western and south-western stations, as well as in Norway, Denmark, and the south of France.

Bull in most other localities, with rain in the eastern parts of Great Britain, and also at Berlin and the Helder.

Rain fell yesterday in most parts of Great Britain and France, the largest amount being 0.7 in. in London. Thunderstorms occurred over England.

## WEATHER

## SEA

Moderate to smooth generally, but rough at Hovisand and rather rough at Lumburg Had.

## PROBABLE CHANGES IN SYSTEM NOW PREVALENT

An anticyclone is apparently spreading over our Islands from the north-westward, and a gradual improvement in the weather is probable in the east and southeast. Temperature is, however, likely to remain rather low for the present.

## FORECASTS

For the 24 hours ending at NOON on 14<sup>th</sup> JUNE 1890.

### DISTRICTS.

### FORECASTS.

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

NE<sup>4</sup> winds, moderate; fair generally.

Same as No 5

N<sup>4</sup> winds, light or moderate; showery at first, but improving later.

### DISTRICTS.

### FORECASTS.

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

N<sup>4</sup> winds, light; fair generally.

### WARNINGS

NONE ISSUED.

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



# YESTERDAY'S 2 P.M. REPORTS.

THER: WIND								THER: WIND							
BAR:	D.	W.	D.	F.	WEA.	SEA		BAR:	D.	W.	D.	F.	WEA.	SEA	
Skudesnaes ...	29.91	64	56	NW	2	C	2	Holyhead ...	29.75	54	52	NNW	5	09	5
Sumburgh Head	29.99	53	51	NE	4	C	5	Valencia ...	30.03	61	58	NNW	4	06	4
Stornoway ...	30.03	53	53	NE	6	0	6	Scilly ...	29.87	57	56	WNW	4	0	4
Aberdeen ...	29.92	51	50	NNE	5	09	5	Jersey ...	29.75	60	57	WNW	5	06	4
Shields ...	29.75	55	54	E	3	6	2	Dungeness ...	29.69	60	55	WSW	3	06	2
Ardrossan ...	29.83	60	56	NE	3	0	2	London ...	29.69	58	55	ESE	1	0	3
Malin Head ...	29.90	54	52	N	5	6	3	Yarmouth ...	29.70	60	56	SE	3	6	3
Mullaghmore	29.94	58	54	NNW	6	06	4	Rochefort ...	29.90	61	59	W	7	7	2
Belmullet ...	30.01	57	54	NNE	4	60	*								

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

Weather fine and bright over Finland and Northern Russia, and also over the Mediterranean and Southeastern Europe; very changeable and unsettled elsewhere — especially over the British Islands, with rain in many places. Thunderstorms occurring frequently over the north and east of England during the day, and rain in most parts of Germany and France; amount exceeding 0.6 in. in London and the Helder.

Temperature highest, 76° at Barcelona and 75° at Palermo, 73° at Malta, and 72° at Brindisi, above 65° in most parts of Southern Europe; lowest 49° at Porto and Munich, 50° at Archangel, Sumburgh Head and Aberdeen, and 51° at Kirk, Nairn, Leth and Darghadda; below 55° in some parts of Central England. Daily maxima below 60° at most of our northern and northwestern stations, but thermometer exceeding 65° over our eastern and midland counties, and exceeding 75° in the south of France.

Wind light from the NE<sup>W</sup> or E<sup>W</sup> in Scandinavia, Denmark, and Northern Russia; moderate to strong from the same quarter in Scotland. Moderate from N. or NW. in the west and southwest of our Islands; fresh or strong from W. over the Channel and Bay of Biscay; light or moderate from the SW<sup>W</sup> or S<sup>W</sup> over the east of England, the greater part of Central Europe and the north of Italy; variable in Algeria and the south of Spain. N<sup>W</sup> winds spreading later to nearly all parts of the United Kingdom.

Barometer highest, 30.2 in. and upwards in an anticyclone lying off the southwest of Spain; 30.1 in. and upwards in another system lying over Northern Russia. Lowest, 29.6 in. and less, in two depressions, one lying over the northeast of England, and the other over our southern counties, 29.8 in. and less, in a long trough extending from Ireland to the central and southern parts of Russia, and also in small shallow disturbances lying over the south of France and Northern Italy. Depressions over England subsequently moving eastward and dispersing, and barometer rising in all parts of Western Europe.

### EXPLANATION OF COLUMNS GIVEN ON PAGE 1.

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

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

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

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



# DAILY WEATHER REPORT.

for Saturday, 14<sup>th</sup> June, 1890.

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

Issued by the Meteorological Office, 63, Victoria Street, London. R. H. SCOTT, Secretary.																		
STATIONS.	YESTERDAY EVENING.					8 A.M. TO DAY.										PAST 24 HOURS.		
	BAROM.	TEMP.	WIND.		Weather.	BAROMETER.		SHADE TEMP.			WIND.		Weather.	Sea. (0 to 1.)	SHADE TEMP.		Amount of Rainfall.	
	Reading at 32° F. and Sea Level.	Dry.	Dirce.	Force. (0 to 12.)		Reading at 32° F. and Sea Level.	Difference from 8 a.m. yesterday.	Dry.	Wet.	Difference from 8 a.m. yesterday.	Dirce.	Force. (0 to 12.)			Max.	Min.		
SCANDINAVIA.																		
Haparanda ...	29.85	48	NE	6	bc	29.86	+ 1.1	46	41	- 12	N	6	c	*	59	46	-	
Hernösand ...	29.94	53	N	0	b	30.00	+ 1.2	52	43	- 3	NNE	4	bc	*	72	48	-	
Stockholm ...	29.89	55	N	4	b	29.93	+ 1.0	56	48	- 5	N	6	b	*	64	52	-	
Wisby ...	29.84	49	NE	4	b	29.87	+ 0.7	49	46	+ 1	NNE	6	b	*	61	43	-	
Bodö ...	30.10	48	NW	4	c	30.10	+ 0.8	43	40	- 2	NW	4	c	2	48	41	0.04	
BRITISH ISLANDS.																		
Christiansund ...	30.19	50	NE	6	bc	30.23	+ 1.0	50	44	+ 1	NNE	3	c	3	54	45	-	
Skudesnaes ...	29.93	52	NW	6	bc	30.04	+ 1.1	55	52	- 1	SE	2	b	3	?	45	-	
Christiania Fjord (Færder)	29.40	62	NW	4	c	30.06	+ 1.8	51	45	- 6	N	5	c	2	63	50	0.04	
Skagen (The Seaw)	29.68	60	N	1	c	29.97	+ 1.3	53	51	- 6	NE	4	c	4	68	52	0.04	
Fanö ...	29.93	52	NW	4	c	29.99	+ 1.3	52	50	- 10	NW	4	c	*	66	50	-	
Sumburgh Head ...	30.26	49	NE	2	0	30.30	+ 0.4	49	44	+ 1	NNE	3	0	4	51	43	-	
Stornoway ...	30.34	51	E	4	c	30.36	+ 0.6	50	49	- 2	E	2	0	3	55	45	-	
Wick ...	30.32	49	NE	4	0	30.35	+ 0.7	50	46	- 1	NE	2	0	1	54	43	-	
Nairn ...	30.32	52	E	1	c	30.36	+ 1.1	48	44	- 2	W	1	0	1	53	46	-	
Aberdeen ...	30.31	49	NW	3	0	30.35	+ 1.3	49	44	0	NW	3	0	4	53	46	-	
Leith ...	30.30	52	E	1	0	30.36	+ 1.7	50	45	- 2	E	1	0	*	54	45	-	
Shields ...	30.28	52	NW	3	c	30.35	+ 2.0	50	46	0	N	2	0	3	54	46	-	
Spurn Head ...	30.23	52	N	5	0	30.31	+ 2.6	53	48	+ 1	N	4	c	5	55	49	-	
York ...	30.27	54	N	3	c	30.36	+ 2.4	49	46	- 5	N	1	0	*	57	46	-	
Loughborough ...	30.25	55	N	3	0	30.37	+ 2.7	51	48	- 2	N	0	0.9m	*	62	48	-	
Ardrossan ...	30.25	60	NW	1	0	30.33	+ 1.4	55	51	0	NE	2	0	1	60	49	-	
Malin Head ...	30.30	57	NW	2	0	30.34	+ 1.2	53	50	0	N	1	0	0	58	51	-	
Mullaghmore ...	30.32	57	NW	4	bc	30.37	+ 1.3	56	51	+ 1	NW	1	0	1	59	51	-	
Belmullet ...	30.35	58	NNE	2	0	30.36	+ 0.9	55	53	+ 1	ESE	1	0	*	59	48	-	
Donaghadee ...	30.29	57	NE	3	bc	30.37	+ 1.5	55	51	- 1	NE	3	c	2	66	53	-	
Liverpool (Bidston)	30.26	61	N	1	c	30.35	+ 2.1	54	52	- 2	NW	1	0	2	65	49	-	
Holyhead ...	30.28	55	NNE	2	b	30.35	+ 1.9	54	54	+ 3	SW	1	cw	1	58	50	-	
Parsonstown ...	30.29	67	N	0	c	30.38	+ 1.7	56	55	- 2	N	0	c	*	68	48	-	
Valencia ...	30.35	59	NW	2	bc	30.41	+ 1.3	55	53	- 1	NW	1	0	1	60	51	-	
Roche's Point...	30.30	60	SE	3	bc	30.38	+ 1.8	54	52	- 4	N	2	c	3	64	50	-	
Pembroke (St. Ann's Hd.)	30.26	57	N	3	b	30.37	+ 2.4	57	55	0	ESE	1	bcw	0	62	55	-	
Scilly ...	30.26	58	N	4	bc	30.36	+ 2.8	57	55	+ 1	NW	2	bc	2	58	52	-	
Prawle Point ...	30.22	61	NW	3	c	30.43	+ 3.6	55	54	- 5	SE	2	cp	1	65	53	0.03	
Jersey (St. Aubin's)	30.21	60	NW	3	cm	30.39	+ 3.8	56	54	- 1	ESE	1	cm	1	63	53	-	
Hurst Castle ...	30.18	65	NNE	3	b	30.38	+ 3.5	58	57	+ 2	NNE	2	b	3	66	50	-	
Dungeness ...	30.10	59	NE	5	c	30.32	+ 3.5	53	49	- 3	N	2	c	2	60	50	0.22	
London ...	30.19	56	N	4	0	30.36	+ 3.5	55	49	+ 1	NNE	1	0	*	62	50	0.02	
Oxford ...	30.27	55	NNE	3	0	30.38	+ 3.2	55	52	+ 1	N	2	c	*	65	44	-	
Cambridge ...	30.22	56	N	3	0	30.37	+ 3.3	52	48	- 1	N	1	0	*	58	47	-	
Yarmouth ...	30.14	53	N	4	c	30.27	+ 3.1	51	48	- 2	NW	4	c	4	56	49	0.01	
GERMANY.																		
Cuxhaven ...	29.90	54	NW	5	bc	29.97	+ 1.7	54	53	- 1	NW	5	0	*	61	53	-	
Berlin ...	29.80	58	NW	3	0	29.87	+ 1.4	62	56	+ 5	NW	4	c	*	62	55	0.16	
Wiesbaden ...	*	*	*	*	*	30.10	+ 2.5	55	52	0	N	4	c	*	68	54	0.16	
Munich ...	29.98	52	NW	2	c	30.11	+ 2.0	52	50	- 2	W	5	0	*	61	48	0.24	
The Helder ...	30.07	53	N	3	c	30.17	+ 2.9	52	48	- 4	NW	3	c	3	61	52	-	
FRANCE AND BELGIUM.																		
Brussels (9 a.m.)	*	*	*	*	*	30.25	+ 3.9	49	47	- 9	NW	2	0	*	66	48	0.08	
Cape Gris Nez	?	55	N	6	0	?	?	51	47	- 5	N	6	0	6	63	50	-	
Paris ...	30.06	62	NW	4	bc	30.30	+ 3.8	51	50	- 2	NW	3	0	*	?	51	0.24	
Brest ...	30.21	62	N	2	b	30.35	+ 2.8	55	54	- 1	N	2	b	2	63	50	-	
Lorient ...	30.21	60	N	4	b	30.39	+ 3.3	54	53	- 1	N	0	c	1	63	54	-	
Rochefort ...	? 30.12	61	NW	6	0	? 30.32	+ 2.6	57	56	- 1	NW	4	0	*	63	48	0.39	
Belfort ...	? 30.07	60	NW	1	0	? 30.13	+ 2.8	59	50	- 1	NW	1	0	*	68	54	0.20	
Lyons ...	30.06	54	SE	1	?	30.19	+ 2.0	56	53	+ 4	NW	2	0	*	64	50	0.43	
Nice ...	29.80	64	SE	5	b	29.96	+ 1.5	?	55	?	SE	2	c	2	? 77	55	-	
Perpignan ...	30.09	63	NW	3	bc	30.22	+ 1.1	62	54	- 1	W	4	b	*	73	57	-	
Biarritz ...	30.28	61	NW	5	c	30.36	+ 1.6	61	58	+ 1	NW	4	c	3	63	59	-	
Corunna ...	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	-
Lisbon ...	30.17	63	NW	6	b	30.15	- 0.7	68	57	+ 8	NNE	6	b	2	72	59	-	

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

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



# WEATHER CHARTS

for 8 a.m. on Saturday, 14<sup>th</sup> June 1890.

## BAROMETER, WIND AND SEA.

### EXPLANATION OF MAP.

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

Changes since previous morning are stated in words.

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

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

○ = dead calm.

**SEA DISTURBANCE**—Where considerable, is shewn thus:

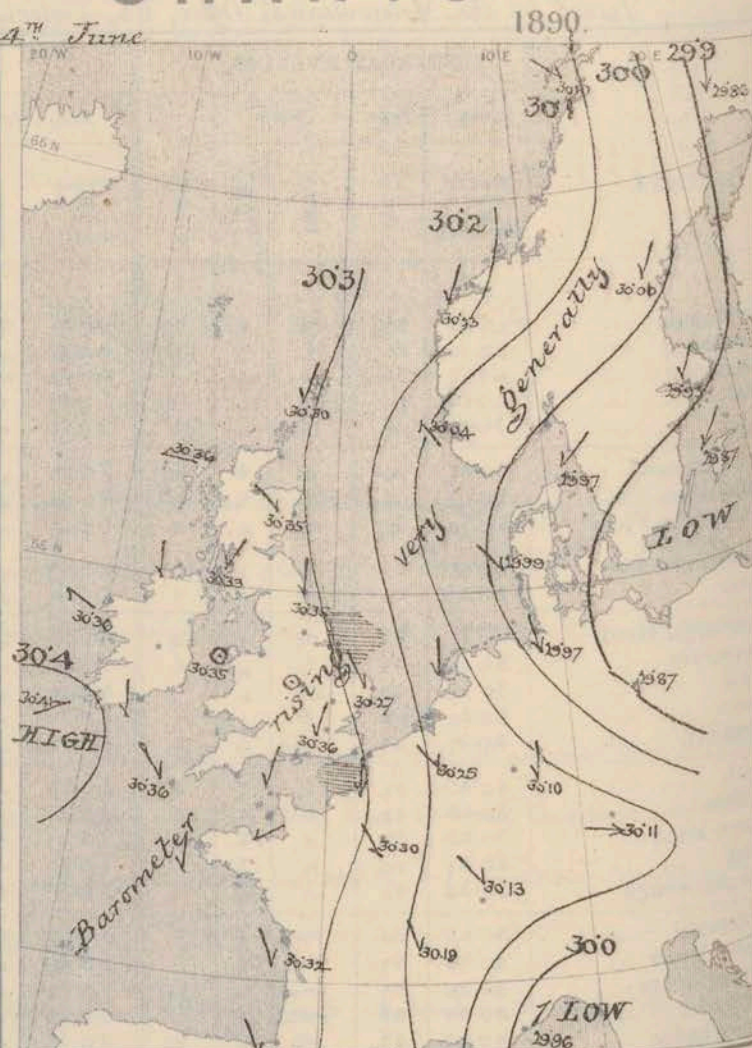
▨ = Rough. ▨ = High.

## MEAN HEIGHT OF THE BAROMETER

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

During the 15 Years: 1871—1885.

STATIONS.	MEAN READINGS.
Sumburgh Head .....	29.862
Stornoway .....	29.852
Wick .....	29.871
Nairn .....	29.880
Aberdeen .....	29.890
Leith .....	29.904
Shields .....	29.928
York .....	29.949
Loughborough .....	29.958
Ardrossan .....	29.909
Donaghadee .....	29.920
Holyhead .....	29.944
Liverpool .....	29.914
Parsonstown .....	29.952
Valencia .....	29.954
Roche's Point .....	29.952
Pembroke .....	29.952
Scilly .....	29.982
Jersey .....	29.994
Hurst Castle .....	29.981
Dover .....	29.971
LONDON .....	29.976
Oxford .....	29.994
Cambridge .....	29.967
Yarmouth .....	29.963



## 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.

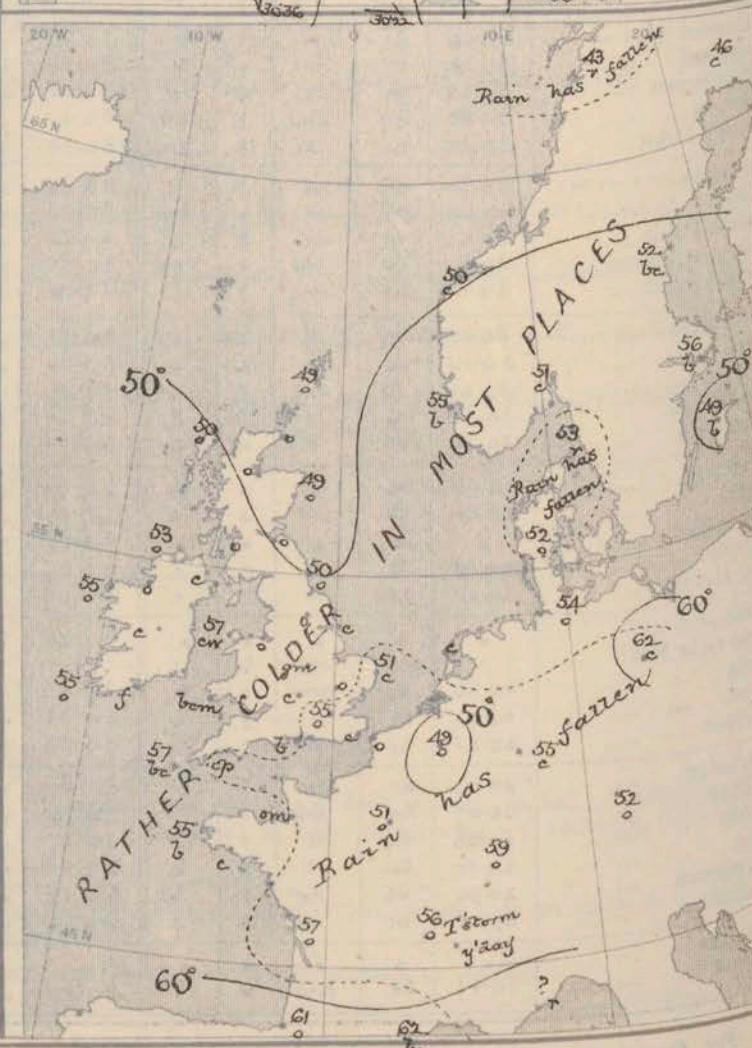
**WEATHER** is shown by Letters of the Beaufort Scale.

**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 June.)

STATIONS.	TEMPERATURE.				RAINFALL (Inches.)
	Daily Max.	Daily Min.	at 8 a.m. Dry.	Wet.	
Sumburgh Head.....	51.5	45.1	50.4	48.7	2.07
Stornoway .....	57.0	46.0	53.3	51.0	2.99
Wick .....	58.8	45.7	53.1	50.4	1.75
Nairn .....	62.1	48.0	54.2	50.4	1.88
Aberdeen .....	61.3	47.5	54.7	50.9	1.88
Leith .....	64.5	48.1	56.0	52.5	1.84
Shields .....	60.9	49.1	54.9	51.9	1.82
York .....	66.2	48.3	56.1	52.7	2.45
Loughborough .....	68.7	49.0	58.1	54.1	2.43
Ardrossan .....	62.0	49.7	55.1	52.0	2.62
Donaghadee .....	60.9	48.9	55.0	52.8	2.04
Holyhead .....	61.7	51.6	55.6	53.1	2.10
Liverpool .....	63.6	50.9	56.6	52.6	1.96
Parsonstown .....	64.0	48.2	55.8	52.2	2.46
Valencia .....	61.7	50.7	56.8	53.8	3.42
Roche's Point .....	64.8	50.8	56.5	53.3	3.26
Pembroke .....	60.3	51.4	55.0	52.9	2.09
Scilly .....	61.1	53.0	57.2	55.0	1.94
Jersey .....	64.8	52.6	58.7	55.9	1.83
Hurst Castle .....	63.9	51.9	57.6	55.4	2.07
Dover .....	63.3	53.1	58.6	55.1	1.72
LONDON .....	69.3	50.6	59.2	54.8	2.12
Oxford .....	67.1	49.4	56.9	53.4	2.28
Cambridge .....	68.8	48.5	58.0	54.7	2.49
Yarmouth .....	62.2	51.4	56.9	54.1	2.02

**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, 30.41 in. at Valencia; 30.3 in. and upwards over our Islands, the Bay of Biscay, and the west and north of France.

Lowest, 29.9 in. and less, over Denmark, the Baltic and Eastern Germany, 30.0 in. and less, over the Gulf of Genoa.

Gradients slight, especially over our Islands. Barometer rising generally.

## TEMPERATURE

Highest, 68° at Lisbon, 62° at Berlin and Brest, 61° at Krasitz, 58° at Belfast, and Harst Castle.

Lowest, 43° at Bodo, 46° at Kopenhagen, 48° at Krasitz and 49° at Kiel, Sumburg Head, Aberdeen, York and Brussels.

The maxima registered over our Islands yesterday were below 60° at most of the northern and eastern stations.

## WIND

Light or moderate from the N<sup>W</sup> in the north and east of Great Britain, and strong from the same quarter in Sweden.

NW in Denmark, Germany and France; light and variable in the western and northwestern parts of the United Kingdom.

## WEATHER

Dull in many parts of Western Europe, but fine and bright in the extreme south of England and also in Sweden.

Rain is falling at Bodo, Skagen and Krasitz, and passing showers at Harst Point.

Rain fell yesterday at some of our southern and the French stations, but elsewhere the weather was mostly fair and dry.

## SEA

Moderate to smooth generally, but rough at Cape Finisterre, and rather rough at Spurn Head.

## PROBABLE CHANGES IN SYSTEM NOW PREVALENT

No important change is indicated beyond a clearance of the sky in many districts, and a gradual increase in temperature.

## FORECASTS

For the 24 hours ending at NOON on 15<sup>th</sup> JUNE 1890.

### DISTRICTS.

### FORECASTS.

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

N<sup>W</sup> to Variable breezes; fair generally.

Same as N<sup>o</sup> 5

Light breezes, chiefly N<sup>W</sup>; fair generally, warmer.

### DISTRICTS.

### FORECASTS.

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

Light Variable airs; fair generally, warmer.

Variable breezes, finally S<sup>W</sup>; fair generally.

### WARNINGS

NONE ISSUED.

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

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



# YESTERDAY'S 2 P.M. REPORTS.

	BAR:	THER:		WIND		WEA.	SEA		BAR:	THER:		WIND		WEA.	SEA
		D.	W.	D.	F.					D.	W.	D.	F.		
Skudesnaes ...	29.93	59	51	NW	8	c	3		Holyhead ...	30.25	56	54	NNE	3	3
Sumburgh Head ...	30.25	50	44	NE	3	c	5		Valencia ...	30.35	60	56	NW	3	3
Stornoway ...	30.33	53	52	E	4	c	4		Scilly ...	30.22	58	55	N	4	3
Aberdeen ...	30.28	51	46	NW	3	c	4		Jersey ...	30.16	61	57	NW	3	3
Shields ...	30.20	53	51	NNE	3	c	2		Dungeness ...	30.06	57	55	NE	5	3
Ardrossan ...	30.24	59	56	SSW	1	c	1		London ...	30.15	58	55	N	3	4
Malin Head ...	30.29	56	53	NW	2	b	2		Yarmouth ...	30.08	55	54	N	4	4
Mallaghmore ...	30.31	61	55	NW	3	b	2		Rochefort ...	30.10	61	59	NW	6	4
Belmullet ...	30.34	57	54	NW	2	o	*								

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

Weather fine as a whole over the western part of the British Islands, Norway, Lapland, and Northern Russia — also over the Mediterranean and Southeastern Europe, dull and cloudy elsewhere, with rain in several places. Rain later in many parts of Germany, France, and Southern England, and slight falls at some of the Baltic and Danish stations.

Temperature exceeding 70° over the southern part of the Mediterranean and at Constantinople, and exceeding 60° over Spain, the southern part of France, northern Italy, and the greater part of Russia; lower elsewhere; as low as 43° at Porto, 48° at Sumburgh Head, 49° at Christiansund and Aberdeen, 50° at Narvik and Shields, 52° at Paris, and 54° in London. Rising to little above 60° over England and Ireland later, and not reaching 70° at the French stations. Night cold over the British Islands.

Wind moderate N<sup>3</sup> over the British Islands, the North Sea, and Baltic, NW<sup>3</sup> over France and North Germany, W over South Germany. Variable over Russia and Poland, SW<sup>3</sup> (light) over the Black Sea. Moderate NW<sup>3</sup> gale on parts of the northern shores of the Mediterranean, and also, locally, at Heraklion. Becoming rather variable in the north and west of our Islands later, and falling light towards night.

Barometer highest, 30.0 ins. to 30.3 ins. over the British Isles, the Bay of Biscay, Spain, and the west of France, and all adjacent parts of Atlantic; 29.9 ins. and more over the eastern parts of Russia. Lowest, 29.7 ins. and less, in a depression over Northern and Eastern Germany, and Western Russia; 29.8 ins. and less in another over Lapland and the north of Finland, 29.9 ins. and less, in a third near Nice. Rising over Western Europe all day, and gradient in our Islands becoming very slight.

### 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* 15<sup>th</sup> JUNE 1890.  
 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.		
	BAROM.	TEMP.	WIND.		Weather.	BAROMETER.		SHADE TEMP.			WIND.		Weather.	Sea. (0 to 9.)	SHADE TEMP.		Amount of Rainfall.	
	Reading at 32° F. and Sea Level.	Dry.	Dir.	Force. (0 to 12.)		Reading at 32° F. and Sea Level.	Difference from 8 a.m. yesterday.	Dry.	Wet.	Difference from 8 a.m. yesterday.	Dir.	Force. (0 to 12.)			Max.	Min.		
SCANDINAVIA.																		
Haparanda ...	29.85	42	N	4	r	29.71	- .15	38	38	- 8	SW	4	r	*	48	38	0.24	
Hernösand ...	30.02	49	N	2	c	29.99	- .01	50	43	- 2	NW	8	c	*	61	46	0.08	
Stockholm ...	30.02	52	N	2	b	30.08	+ .15	52	45	- 4	N	4	b	*	61	46	—	
Visby ...	29.94	51	NE	4	b	29.99	+ .12	49	45	0	NNE	4	b	*	63	43	—	
Bodö ...	30.11	40	W	4	c	29.86	- .24	45	44	+ 2	SW	4	r	2	46	40	0.08	
SCANDINAVIA.																		
Christiansund	30.28	50	NE	2	o	30.21	- .02	50	45	0	W	2	c	2	52	45	—	
Skudesnaes ...	30.14	56	WSW	2	b	30.19	+ .15	53	49	- 2	WNW	4	bc	3	59	45	—	
Christiana Fjord (Færder)	30.08	59	N	2	b	30.17	+ .11	52	45	+ 1	N	3	b	1	59	50	—	
Skagen (The Scaw)	30.06	59	NE	1	b	30.15	+ .18	58	53	+ 5	ENE	1	b	1	66	50	0.24	
Fanö ...	30.08	64	ENE	4	b	30.17	+ .18	60	52	+ 8	N	4	b	*	61	46	—	
SCANDINAVIA.																		
Sumburgh Head	30.33	50	NE	1	c	30.29	- .01	48	44	- 1	Z	0	bc	3	53	43	—	
Stornoway ...	30.36	51	E	4	c	30.24	- .12	52	52	+ 2	S	2	r	3	53	40	0.02	
Wick ...	30.38	52	NE	1	bc	30.28	- .07	53	49	+ 3	S	1	b	0	53	36	—	
Nairn ...	30.38	52	W	1	b	30.29	- .07	48	47	0	W	1	o	1	58	36	—	
Aberdeen ...	30.38	52	N	2	bc	30.32	- .03	50	47	+ 1	SSE	3	cp	4	54	38	—	
SCANDINAVIA.																		
Leith ...	30.36	55	ENE	1	c	30.34	- .02	55	51	+ 5	ENE	1	o	*	56	41	—	
Shields ...	30.36	52	NNE	2	b	30.35	- .00	52	49	+ 2	ESE	2	o	3	54	40	—	
Spurn Head ...	30.23	52	N	4	c	30.37	+ .06	52	49	- 1	Z	0	c	3	55	48	—	
York ...	30.36	56	ENE	1	c	30.34	- .02	55	53	+ 6	S	1	b	*	61	43	—	
Loughborough	30.35	60	E	2	bc	30.40	+ .03	58	53	+ 7	SE	1	b	*	66	41	—	
BRITISH ISLANDS.																		
Ardrossan ...	30.33	57	Z	0	b	30.33	- .00	52	50	- 3	E	1	Am	1	61	47	—	
Malin Head ...	30.34	55	E	2	c	30.28	- .06	59	48	+ 6	S	2	o	0	59	51	0.09	
Mullaghmore ...	30.35	59	NW	2	c	30.31	- .06	62	59	+ 6	SSW	3	o	2	62	55	0.12	
Belmullet ...	30.37	59	SW	2	o	30.31	- .05	58	57	+ 3	SW	1	o	*	61	55	0.11	
Donaghadee ...	30.37	55	ENE	2	b	30.36	- .01	56	56	+ 1	S	2	r	0	58	50	—	
BRITISH ISLANDS.																		
Liverpool (Bidston)	30.37	60	NW	2	b	30.39	+ .04	61	53	+ 7	SSE	1	b	2	64	51	—	
Holyhead ...	30.38	56	Z	0	b	30.29	+ .04	52	53	- 3	SW	3	ogm	2	61	51	—	
Parsonstown ...	30.35	67	Z	0	c	30.36	- .02	62	60	+ 6	Z	0	c	*	69	50	—	
Valencia ...	30.41	60	S	3	cm	30.44	+ .03	59	58	+ 4	SE	2	om	2	63	54	—	
Roche's Point...	30.40	60	SW	3	bc	30.42	+ .04	55	54	+ 1	SSW	2	f	3	62	53	—	
BRITISH ISLANDS.																		
Pembroke (St. Ann's Hd.)	30.40	57	W	1	c	30.41	+ .04	54	54	- 3	WSW	2	fd	0	61	53	0.01	
Scilly ...	30.40	55	WNW	4	c	30.42	+ .06	56	54	- 1	WSW	1	o	2	60	54	—	
Prawle Point...	30.41	58	WSW	2	bc	30.44	+ .01	57	55	+ 2	W	2	cmw	1	58	50	—	
Jersey (St. Aubin's)	30.41	61	NNW	1	b	30.44	+ .05	60	57	+ 4	NW	3	bm	3	66	51	—	
Hurst Castle ...	30.40	57	WSW	4	c	30.41	+ .03	60	57	+ 2	NNW	1	b	2	65	51	—	
BRITISH ISLANDS.																		
Dungeness ...	30.35	58	SW	1	c	30.37	+ .05	56	52	+ 3	E	4	c	2	59	51	—	
London ...	30.35	61	NW	1	o	30.40	+ .04	55	52	0	Z	0	o	*	63	50	0.01	
Oxford ...	30.34	60	Z	0	c	30.42	+ .04	54	51	- 1	NNW	1	c	*	67	46	—	
Cambridge ...	30.38	58	N	1	o	30.41	+ .04	57	52	+ 5	N	1	b	*	60	47	—	
Yarmouth ...	30.32	54	NNW	4	bc	30.35	+ .08	50	49	+ 2	N	4	c	4	56	45	—	
GERMANY & HOLLAND.																		
Cuxhaven ...	30.10	54	NNW	2	o	30.14	+ .17	56	54	+ 2	N	2	c	*	57	53	—	
Berlin ...	30.04	60	NW	3	b	30.16	+ .29	51	47	- 11	WNW	4	r	*	70	50	0.04	
Wiesbaden ...	*	*	*	*	*	30.31	+ .21	52	48	- 3	NW	4	c	*	57	50	—	
Munich ...	30.21	57	W	2	c	30.31	+ .20	48	46	- 4	NW	5	r	*	59	46	0.89	
The Helder ...	30.26	52	NNW	3	c	30.29	+ .12	52	49	0	NNW	2	o	3	54	50	0.04	
GERMANY & HOLLAND.																		
Brussels (9 a.m.)	*	*	*	*	*	30.28	+ .13	51	47	+ 2	WNW	1	o	*	54	44	0.04	
Cape Gris Nez	2	55	NNE	4	o	?	?	55	51	+ 4	NE	3	bc	2	61	51	—	
Paris ...	30.38	56	NNW	2	o	30.41	+ .11	52	50	+ 1	SW	1	o	*	57	49	—	
Brest ...	30.40	60	N	3	o	30.44	+ .09	51	49	- 4	N	1	m	1	64	48	—	
Lorient ...	30.38	63	Z	0	c	30.42	+ .03	55	53	+ 1	E	2	b	1	63	52	—	
FRANCE AND BELGIUM.																		
Rochefort ...	30.34	64	NW	4	o	30.41	+ .09	57	55	0	E	2	b	2	61	46	—	
Belfort ...	*	*	*	*	*	30.39	+ .20	50	47	- 6	N	2	o	*	60	49	—	
Lyons ...	30.30	56	N	3	c	30.35	+ .09	68	54	- 7	NE	2	b	1	42	55	—	
Nice ...	30.04	64	S	4	c	30.26	+ .04	66	56	+ 4	NW	4	b	*	48	59	—	
Perpignan ...	30.25	68	NNW	5	b	30.37	+ .01	61	57	0	NE	1	b	1	68	57	—	
Biarritz ...	30.38	64	NNW	3	b	30.37	+ .01	61	57	0	NE	1	b	1	68	57	—	
FRANCE AND BELGIUM.																		
Corunna ...	*	*	*	*	*	30.31	- .04	69	62	+ 6	NE	2	b	1	70	57	—	
Lisbon ...	30.09	69	N	5	b	30.11	- .04	67	56	- 1	NE	5	b	2	68	56	—	

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

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



# WEATHER CHARTS

for 8 a.m. on

Sunday, 15<sup>th</sup> June,

1890.

## BAROMETER, WIND AND SEA.

### EXPLANATION OF MAP.

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

Changes since previous morning are stated in words.

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

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

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

⊙ = dead calm.

**SEA DISTURBANCE**—Where considerable, is shown thus:

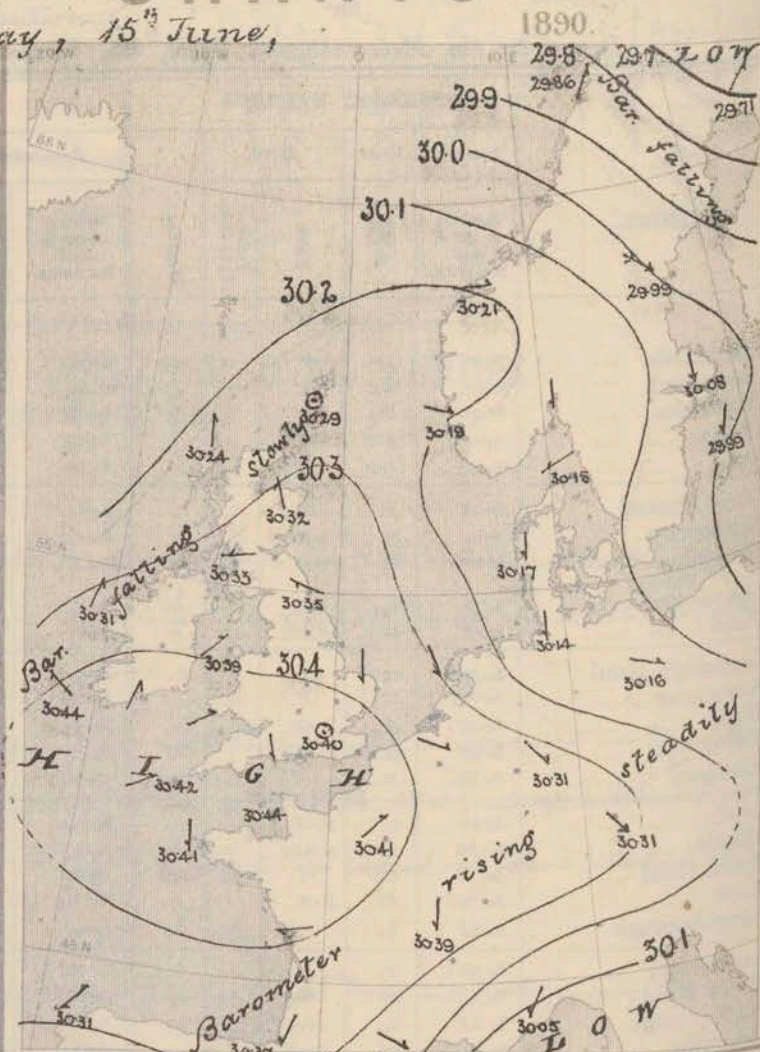
▨ = Rough. ▨ = High.

### MEAN HEIGHT OF THE BAROMETER

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

During the 15 Years: 1871—1885.

STATIONS.	MEAN READINGS.
Sumburgh Head .....	29.862
Stornoway .....	29.852
Wick .....	29.874
Nairn .....	29.889
Aberdeen .....	29.890
Leith .....	29.904
Shields .....	29.928
York .....	29.949
Loughborough .....	29.958
Ardrossan .....	29.969
Donaghadee .....	29.920
Holyhead .....	29.944
Liverpool .....	29.944
Parsonstown .....	29.932
Valencia .....	29.954
Roche's Point .....	29.952
Pembroke .....	29.952
Seilly .....	29.982
Jersey .....	29.994
Hurst Castle .....	29.981
Dover .....	29.971
LONDON .....	29.976
Oxford .....	29.964
Cambridge .....	29.967
Yarmouth .....	29.963



## 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.

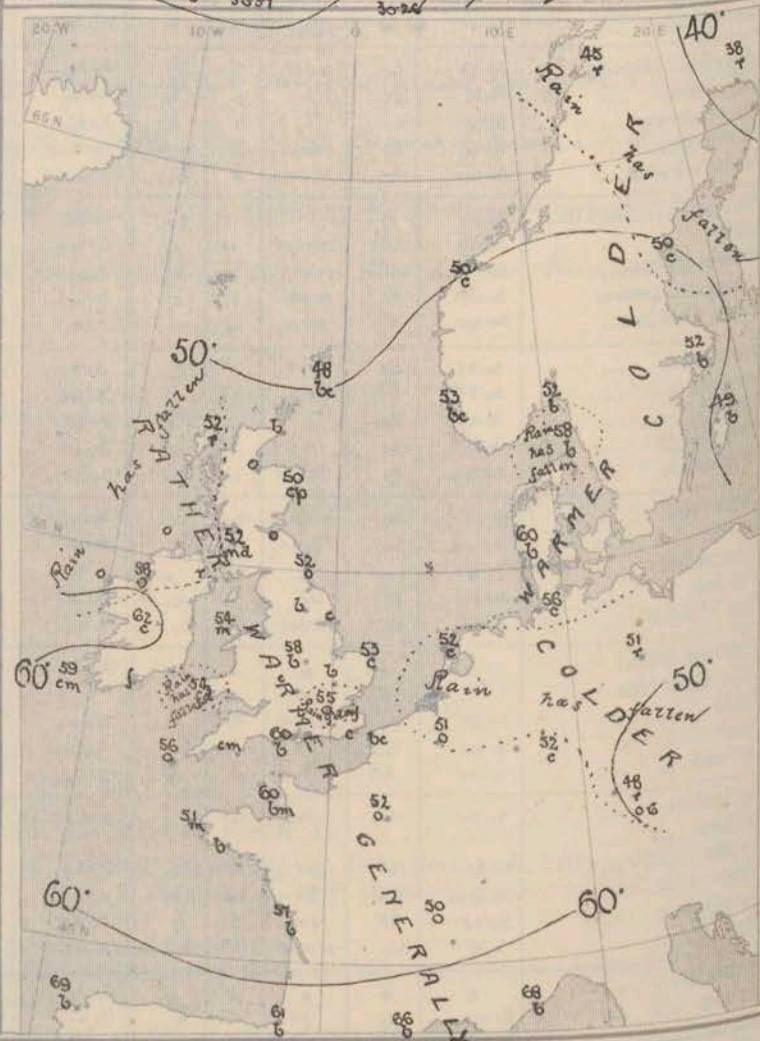
**RAINFALL**—A dotted line separates the districts in which rain has fallen from those where there has been none. Falls of 0.5 in. or more are quoted in figures.

### MEANS OF TEMPERATURE IN SHADE, AND RAINFALL.

(For the month of June.)

STATIONS.	TEMPERATURE.				RAINFALL (Inches.)
	Daily	Daily	at 8 a.m.		
	Max.	Min.	Dry.	Wet.	
Sumburgh Head.....	54.5	45.1	50.4	48.7	2.07
Stornoway .....	57.0	46.0	53.3	51.0	2.99
Wick.....	58.8	45.7	53.1	50.4	1.75
Nairn .....	62.1	48.0	54.2	50.4	1.88
Aberdeen .....	61.3	47.5	54.7	50.9	1.88
Leith.....	64.5	48.1	56.0	52.5	1.84
Shields.....	60.9	40.1	54.9	51.9	1.82
York .....	60.2	48.3	55.1	52.7	2.45
Loughborough .....	68.7	49.0	58.1	54.1	2.43
Ardrossan .....	62.0	49.7	55.1	52.0	2.62
Donaghadee.....	60.9	48.9	55.0	52.8	2.04
Holyhead.....	61.7	51.0	55.6	53.1	2.10
Liverpool .....	63.6	50.9	56.6	52.6	1.96
Parsonstown .....	64.0	48.2	55.8	52.2	2.45
Valencia .....	61.7	50.7	56.8	53.8	3.42
Roche's Point .....	64.8	50.8	56.6	53.3	3.26
Pembroke.....	60.3	51.4	55.0	52.9	2.09
Seilly .....	61.1	53.0	57.2	55.0	1.94
Jersey .....	64.8	52.0	58.7	55.9	1.83
Hurst Castle .....	63.9	51.9	57.0	55.4	2.07
Dover .....	63.3	53.1	58.6	55.1	1.72
LONDON .....	69.3	50.6	59.2	54.8	2.12
Oxford .....	67.1	49.4	56.9	53.4	2.28
Cambridge .....	68.8	48.6	58.0	54.7	2.41
Yarmouth .....	62.2	51.4	56.9	54.1	2.02

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





# GENERAL SITUATION AT 8 A.M.

## PRESSURE

Highest, 30.4 ins. and upwards, in an anticyclone lying over the southern parts of our Islands, and the northern parts of France and the Bay of Biscay.  
Lowest, 29.7 ins. and less, in Lapland.

Gradient moderate over the northern parts of Scandinavia, but slight elsewhere.

Barometer falling over the northern parts of our Islands and Scandinavia, but rising elsewhere.

## TEMPERATURE

Highest, 69° at Corunna, 67° at Lisbon, 66° at Brest, and 62° at Harrowdown.

Lowest, 38° at Haparanda, 45° at Bodo, 48° at Dunburgh Head, Kain and Munich, and 49° at Kirkby.

The highest maxima registered over our Islands yesterday were 69° at Harrowdown, 67° at Oxford, and 66° at Loughborough and Jersey.

## WIND

Light from the S. in the west and north of our Islands, and from S.W. or W. in the southwest of England and also in the north of Scandinavia.

Moderate from the N.W. or N. over Denmark, Germany and the south of Scandinavia.

Light from the E. or N.E. in Spain and the west of France, variable in the east of France.

## WEATHER

Fine at many of the English and French stations, as well as in Denmark, the south of Scandinavia and the extreme north of Scotland.

Dull elsewhere with fog at the mouth of the S. of the Channel, and rain in the west of Scotland, as well as in the north of Scandinavia and at Berlin.

Day weather was experienced yesterday in most parts of Western Europe.

## SEA

Slight or smooth generally, but moderate at Aberdeen and Yarmouth.

## PROBABLE CHANGES IN SYSTEM NOW PREVALENT

## FORECASTS

For the 24 hours ending at NOON on 16<sup>TH</sup> JUNE 1890.

### DISTRICTS.

### FORECASTS.

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

NONE ISSUED

### DISTRICTS.

### FORECASTS.

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

NONE ISSUED

### WARNINGS

NONE ISSUED.

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



# YESTERDAY'S 2 P.M. REPORTS.

	BAR:	THER:		WIND		WEA.	SEA		BAR:	THER:		WIND		WEA.	SEA
		D.	W.	D.	F.					D.	W.	D.	F.		
Skudesnaes ...	30.12	59	52	SW	2	b	2		Holyhead ...	30.38	59	50	NNW	1	b
Sumburgh Head ...	30.22	52	47	NE	2	c	4		Valencia ...	30.41	63	58	WSW	3	bc
Stornoway ...	30.36	52	51	E	3	c	3		Scilly ...	30.42	58	50	NW	3	o
Aberdeen ...	30.37	53	46	NNW	2	c	4		Jersey ...	30.41	65	58	ESE	2	b
Shields ...	30.37	52	43	NNE	2	c	3		Dungeness ...	30.34	57	52	NNE	2	c
Ardrossan ...	30.33	61	56	Z	0	bc	0		London ...	30.38	61	55	NW	2	o
Malin Head ...	30.36	58	53	NW	2	b	0		Yarmouth ...	30.32	55	50	N	5	c
Mullaghmore ...	30.36	58	54	NW	2	bc	1		Rochefort ...	30.35	62	50	NW	4	o
Belmullet ...	30.38	60	55	SW	1	o	*								

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

Weather fine and bright in the extreme south of England, as well as over Sweden and the greater part of Southern Europe. Dull elsewhere, with rain at several of the German stations, as well as at Lbo, Skagen, and Nice. Sky clearing later in many parts of the United Kingdom but weather remaining dull and rainy in Germany.

Temperature highest 79° at Constantinople, 73° at Algiers, 72° at Alexandria and Sfax and 71° at Malta, above 60° in most parts of Southern Europe and also in Russia. Lowest 42° at Uleaborg, 43° at Lbo, 46° at Haparanda, and 48° at Naim, below 50° in nearly all the more northern and Eastern parts of the United Kingdom. Daily maxima below 60° at many of our northern stations, but thermometer rising above 65° in some of the central parts of England and Ireland, and above 70° in many parts of Southern Europe. Highest readings of all 93° at Hierka and Laghouat and 88° at Boudia.

Wind light or moderate, from the NW<sup>d</sup> in the north and east of Great Britain, and strong from the same quarter in Sweden, light and variable in the western and south-western parts of the United Kingdom. Moderate from the NW<sup>d</sup> in Denmark, France and Western Germany, and from the West in Austria and Eastern Germany. Light and variable in Russia and Algeria; fresh or strong from the NE<sup>d</sup> in Spain. S-wind setting in later in the west of Ireland.

Barometer highest 30.3 ins to 30.4 ins in a large anticyclone covering our Islands, the Bay of Biscay, the coast of France, and the north of Spain. Lowest, 29.6 ins and less, in a depression lying over the Baltic Provinces. Slight fall of barometer taken place later in many parts of our Islands and also in Spain, but no important change reported in general distribution of pressure.

### 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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for *Monday, 16<sup>th</sup> June,* 1890.  
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STATIONS.	YESTERDAY EVENING.					8 A.M. TO DAY.										PAST 24 HOURS.		
	BAROM.  Reading at 32° F. and Sea Level.	TEMP.  Dry.	WIND.		Weather.	BAROMETER.		SHADE TEMP.			WIND.		Weather.	Sea. (0 to 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 ...	29.51	41	NE	2	0	29.49	- .22	50	47	+ 12	SSW	2	bc	*	50	32	0.08	
Hernösand ...	29.91	53	NW	6	b	29.83	- .16	51	45	+ 4	WNW	6	bc	*	64	41	-	
Stockholm ...	30.02	40	S	2	b	29.92	- .16	61	52	+ 9	W	2	b	*	63	43	-	
Wisby ...	30.02	49	WNW	2	b	29.95	- .04	54	49	+ 5	W	2	b	*	64	43	-	
Bodö ...	29.77	46	WNW	4	c	29.66	- .20	43	40	- 2	WSW	5	0	3	46	41	0.04	
Christiansund	30.07	49	WSW	6	c	29.91	- .30	51	46	+ 1	SW	6	c	4	52	46	-	
Skudesnaes ...	30.16	48	NW	7	bc	30.03	- .16	50	46	- 3	SSE	2	r	3	54	45	-	
Christiania Fjord (Færd)	30.02	57	S	3	b	29.89	- .28	57	55	+ 5	X	0	b	2	57	?	-	
Skagen (The Scaw)	30.06	51	W	3	c	29.97	- .18	55	51	- 3	W	4	bc	4	64	48	-	
Fanö ...	30.21	47	NW	4	b	30.15	- .02	51	47	- 4	WNW	4	c	*	64	46	-	
Sumburgh Head	30.14	50	SSW	1	c	29.85	- .44	52	52	+ 4	SE	1	r	2	58	46	0.10	
Stornoway ...	30.13	56	SW	2	0	29.84	- .40	56	56	+ 4	SW	4	r	4	58	49	0.05	
Wick ...	30.13	55	S	1	0	29.83	- .45	60	58	+ 7	SW	1	0	0	60	46	0.06	
Nairn ...	30.14	63	W	2	c	29.88	- .41	63	59	+ 15	W	3	c	1	64	48	0.01	
Aberdeen ...	30.17	54	S	3	0	29.93	- .39	57	55	+ 7	S	2	0	3	59	50	0.03	
Leith ...	30.22	64	SW	1	r	30.02	- .32	63	59	+ 8	SW	1	0	*	65	52	0.02	
Shields ...	30.25	58	SSW	1	0	30.01	- .28	65	60	+ 13	S	4	c	2	65	50	-	
Spurn Head ...	30.28	57	SSE	4	b	30.16	- .27	66	61	+ 14	WSW	2	bc	3	66	52	-	
York ...	30.30	67	W	2	c	30.17	- .17	62	59	+ 7	WSW	1	c	*	72	55	-	
Loughborough	30.31	71	W	2	c	30.23	- .17	59	57	+ 1	WSW	2	0 m	*	74	55	-	
BRITISH ISLANDS.																		
Ardrossan ...	30.22	57	WNW	1	dm	30.02	- .31	56	55	+ 4	SSW	3	10	8	59	51	0.09	
Malin Head ...	30.22	60	SSW	1	0 f	30.02	- .26	54	52	- 5	WSW	4	0 f	2	61	54	0.10	
Mullaghmore ...	30.23	65	W	2	0	30.08	- .23	56	54	- 6	WSW	4	0	2	67	54	0.15	
Belmullet ...	30.23	59	SW	2	0	30.07	- .24	56	54	- 2	SW	3	0	*	61	54	0.09	
Donaghadee ...	30.25	64	WSW	3	0	30.08	- .28	61	60	+ 5	WSW	3	0	0	72	56	0.02	
Liverpool (Bidston)	30.32	62	WNW	1	c	30.18	- .21	63	57	+ 2	SW	2	c	2	68	57	-	
Holyhead ...	30.34	58	SSW	4	0 g	30.18	- .21	54	54	0	SSW	3	0 f	3	62	52	-	
Parsonstown ...	30.28	67	W	0	0	30.14	- .22	60	59	- 2	SW	2	0	*	70	58	0.01	
Valencia ...	30.33	60	S	3	0 m	30.19	- .25	57	55	- 2	SW	4	0 m	4	62	55	0.04	
Roche's Point...	30.35	58	SW	3	c	30.20	- .22	57	56	+ 2	SW	4	0 f	4	60	54	-	
Pembroke (St. Ann's Hd.)	30.38	55	W	1	f	30.25	- .16	54	54	0	SSW	2	0 f	2	57	54	0.03	
Scilly ...	30.39	57	WSW	2	bc	30.28	- .14	55	53	- 1	WSW	3	0 m	2	60	53	-	
Prawle Point ...	30.38	59	W	3	b	30.32	- .12	52	51	- 5	SW	4	0 g	1	60	51	-	
Jersey (St. Aubin's)	30.41	57	NW	3	b	30.36	- .08	54	53	- 6	WNW	2	0 f	2	62	52	-	
Hurst Castle ...	30.37	59	WSW	4	bc m	30.30	- .11	55	55	- 5	SW	1	0 f	1	67	53	-	
Dungeness ...	30.37	55	W	0	c	30.28	- .09	53	52	- 3	W	3	0 f	2	60	51	-	
London ...	30.33	64	SSE	2	bc	30.28	- .12	59	56	+ 4	SW	2	0 c	*	65	52	-	
Oxford ...	30.32	66	WNW	1	0	30.27	- .15	55	54	+ 1	SW	1	0 a	*	72	53	-	
Cambridge ...	30.33	65	W	0	0	30.23	- .18	63	61	+ 6	SW	1	c	*	69	55	-	
Yarmouth ...	30.35	58	NE	2	b	30.20	- .15	65	62	+ 12	WSW	1	bc	2	65	50	0.01	
GERMANY & HOLLAND.																		
Cuxhaven ...	30.21	53	N	4	b	30.25	+ .11	52	51	- 4	WNW	3	0	*	59	50	-	
Berlin ...	30.15	56	WNW	2	bc	30.19	+ .03	56	53	+ 5	WNW	4	c	*	61	46	0.04	
Wiesbaden ...	*	*	*	*	*	30.30	- .01	59	53	+ 7	N	2	c	*	59	52	-	
Munich ...	30.33	48	NW	2	c	30.34	+ .03	49	46	+ 1	SW	5	bc	*	52	39	0.04	
The Helder ...	30.32	52	WNW	1	c	30.24	- .05	54	52	+ 2	SW	1	c	2	55	50	-	
FRANCE AND BELGIUM.																		
Brussels (9 a.m.)	*	*	*	*	*	30.32	- .06	55	49	+ 4	S	1	b	*	58	40	-	
Cape Gris Nez	?	53	E	3	bc	?	?	57	55	+ 2	S	3	0	2	61	50	-	
Paris ...	30.34	63	N	2	bc	30.34	- .07	54	50	+ 2	NNE	2	b	*	66	42	-	
Brest ...	30.41	63	N	1	m	30.30	- .14	53	52	+ 2	W	0	b	1	66	45	-	
Lorient ...	30.38	63	W	2	b	30.34	- .08	54	52	- 1	NNE	2	b	3	66	52	-	
Rochefort ...	30.34	64	NW	4	b	30.29	- .12	58	54	+ 1	NNE	3	b	*	73	52	-	
Belfort ...	30.28	62	E	1	bc	30.29	- .12	62	60	+ 2	E	1	b	*	69	43	-	
Lyons ...	30.32	58	N	3	bc	30.30	- .09	54	50	+ 4	WNW	1	b	*	62	46	-	
Nice ...	30.02	66	SW	2	c	30.04	- .01	64	60	- 4	NE	2	b	0	75	55	-	
Pespiignan ...	30.21	64	NW	4	b	30.17	- .09	66	54	0	N	3	c	*	77	37	-	
Biarritz ...	30.28	67	NNE	4	c	30.26	- .11	59	55	- 2	E	3	b	2	72	52	-	
SPAIN.																		
Corunna ...	*	*	*	*	*	30.07	- .04	68	60	+ 1	NNE	2	b	2	88	63	-	
Lisbon ...	30.01	80	WNW	4	bc	30.07	- .04	68	60	+ 1	NNE	2	b	2	88	63	-	

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

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



# WEATHER CHARTS

for 8 a.m. on

Monday, 16<sup>th</sup> June

1890.

## BAROMETER, WIND AND SEA.

### EXPLANATION OF MAP.

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

Changes since previous morning are stated in words.

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

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

→ = forces 5 to 7; → = forces 1 to 4.

○ = dead calm.

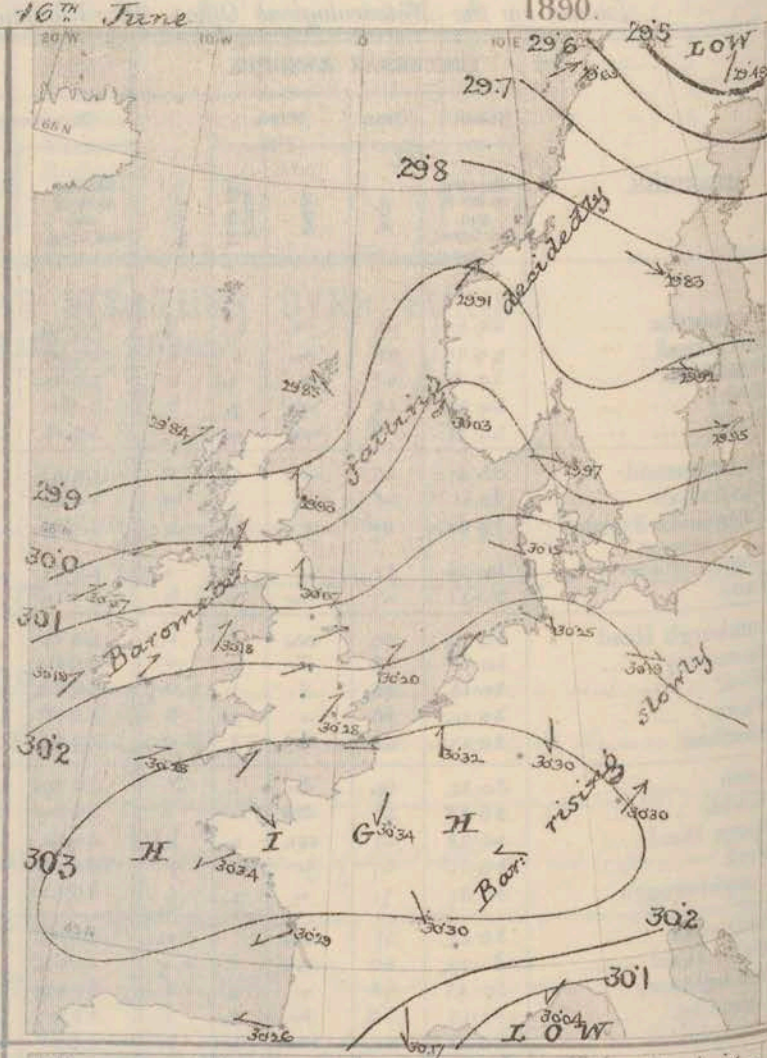
**SEA DISTURBANCE**—Where considerable, is shown thus:

▨ = Rough. ▨ = High.

### MEAN HEIGHT OF THE BAROMETER

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

STATIONS.	MEAN READINGS.
Sumburgh Head .....	29.862
Stornoway .....	29.852
Wick .....	29.874
Nairn .....	29.889
Aberdeen .....	29.890
Leith .....	29.904
Shields .....	29.928
York .....	29.940
Loughborough .....	29.958
Ardrossan .....	29.909
Donaghadee .....	29.920
Holyhead .....	29.944
Liverpool .....	29.944
Parsonstown .....	29.952
Valencia .....	29.954
Roche's Point .....	29.952
Pembroke .....	29.952
Sailly .....	29.982
Jersey .....	29.994
Hurst Castle .....	29.981
Dover .....	29.971
LONDON .....	29.976
Oxford .....	29.984
Cambridge .....	29.967
Yarmouth .....	29.963





## GENERAL SITUATION AT 8 A.M.

### PRESSURE

Highest, 30.2 in. to 30.3 in. and more over the south of England, France, and the north of Spain.

Lowest, 29.9 in. and less, over the northern part of Scotland; 29.5 in. and less, over Lapland.

Gradients moderate over the northern part of Scandinavia and the northern parts of our islands, slight elsewhere.

Barometer falling throughout our islands, most in the north, rising over Germany and the southeast of France.

### TEMPERATURE

Highest, 68° at Fife, 66° at Penzance and Spurn Head, 65° at Yarmouth and Shields, 63° at Nain and Liverpool, 60° at Passenau.

Lowest, 43° at Bideford, 52° at Dumbarton Head, 54° at Holyhead, Jersey and Paris, and 55° at Brest.

In London the temperature is 55°, and at Berlin 56°.

### WIND

SW<sup>ly</sup>, light to moderate, over the United Kingdom, W<sup>ly</sup> over the North Sea, the Baltic, and Germany.

Over the Bay of Biscay and south of France, however, it is E<sup>ly</sup>, light.

### WEATHER

Fine over Spain, France, Sweden, and the North Sea, as well as in the east and southeast of England, very foggy on our southeastern coasts, dull in the west and north, with rain in many places, most in the north of Scotland and at Shetland.

### SEA

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

### PROBABLE CHANGES IN SYSTEM NOW PREVALENT

The low pressure systems seem likely to spread gradually all over the Kingdom, causing less settled weather than is now prevalent — rain at times and falling temperature. The eastern and southern counties, however, will probably be the last affected.

## FORECASTS

For the 24 hours ending at NOON on 17<sup>th</sup> JUNE 1890.

### DISTRICTS.

### FORECASTS.

### DISTRICTS.

### FORECASTS.

0 SCOTLAND

NORTH

SW<sup>ly</sup> and S<sup>ly</sup> winds; changeable, rain at times, bright intervals.

1 SCOTLAND

EAST

2 ENGLAND

N.E.

3 ENGLAND

EAST

4 MIDLAND

COUNTIES

5 ENGLAND

SOUTH

Same as No 5

SW<sup>ly</sup> and S<sup>ly</sup> breezes, light or moderate; fine and warm at first, less settled later.

6 SCOTLAND

WEST

7 ENGLAND

N.W.

8 ENGLAND

S.W.

9 IRELAND

NORTH

10 IRELAND

SOUTH

SW<sup>ly</sup> and S<sup>ly</sup> winds, moderate or fresh; changeable, showery.

### WARNINGS

NONE ISSUED.

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

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



# YESTERDAY'S 2 P.M. REPORTS.

	BAR:	THER:		WIND		WEA.	SEA		BAR:	THER:		WIND		WEA.	SEA
		D.	W.	D.	F.					D.	W.	D.	F.		
Skudesnaes ...	30.17	53	48	NW	7	6	3		Holyhead ...	30.36	62	58	SW	4	0
Sumburgh Head									Valencia ...						
Stornoway ...	30.17	57	57	SW	2	0	3		Scilly ...						
Aberdeen ...									Jersey ...	30.45	58	56	NW	2	0
Shields ...									Dungeness ...	30.38	59	53	SE	3	60
Ardrossan ...									London ...						*
Malin Head ...	30.25	57	57	WSW	2	0	1		Yarmouth ...						
Mullaghmore ...									Rochefort ...	? 30.89	70	60	NW	3	6
Belmullet ...	30.30	60	59	SSW	2	0	*								*

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

*Weather* fine in the south of England, as well as in Denmark, the south of Scandinavia and the greater part of southern Europe, dull elsewhere, with rain in the west of Scotland and also at several of the German, Austrian and Russian stations. Showers falling during day in the west and north of our Islands generally.

*Temperature* highest 73° at Constantinople, 72° at Brindisi and Barcelona and 69° at Turin, Lausanne, Leghorn, Algiers and Tunis; above 60° over southern and eastern Europe generally, as well as in one or two isolated parts of the United Kingdom. Lowest 38° at Haparanda and Uleaborg, 45° at Bodö and Kuopio, 48° at Sumburgh Head, Naini & Munnich, 49° at Wisby. Daily maxima exceeding 70° in many parts of England, Ireland and France, and thermometer rising to 88° at Lisbon.

*Wind* light from the S. or SW in most of the western and northern parts of the United Kingdom, and also in the north of Scandinavia, but moderate to strong from the NW. or N. over Denmark, the Baltic, Germany, Austria and the south of Scandinavia, as well as in Tunis and the south of Italy. Light from the E. (SE to NE) in Spain and the west of France; variable in the east and south of France, and northern Italy.

*Barometer* highest 30.3 ins. and upwards in an anticyclone lying over the south of our Islands, and the northern parts of France and the Bay of Biscay. Lowest 29.6 ins. and less in a shallow depression lying between Norgorod, Kiev and Kharkov; 29.7 ins. and less in Lapland. Barometer falling during day in all parts of western Europe, and shallow depression appearing over the south of Sweden.

## SUMMARY OF CHANGES IN THE WEATHER OVER THE BRITISH ISLANDS AND THEIR NEIGHBOURHOOD FROM THE 8<sup>TH</sup> TO THE 14<sup>TH</sup> JUNE 1890.

The weather of last week was very changeable and unsettled, with considerable falls of rain in nearly all parts of western Europe, and thunderstorms at many of the English, Irish and French stations.

At the beginning of the period barometrical pressure was highest in a large anticyclone covering Great Britain, France and Spain, and lowest in a depression lying over the Baltic. Another disturbance was, however, lying off the west of Ireland, and as this spread eastwards the anticyclone moved southwards and dispersed, while S. or SW. winds and showery weather set in over the whole of the United Kingdom.

On the 10<sup>th</sup> a new depression advanced from the Southwest to the west of Ireland, while shallow secondary systems began to form over France. The latter soon advanced northwards over England and ultimately developed into a well marked depression over the north and northeast of England, the passage of the various minima being attended by thunderstorms and heavy rain in many places. The western disturbance remained stationary for some little time, but on the afternoon of the 11<sup>th</sup> it began to move in an east-southeasterly direction, and in the course of the ensuing 24 hours its centre travelled across the south and southeast of England. Further thunderstorms and heavy rain were consequently experienced in many parts of the country. During the latter part of the 12<sup>th</sup> the disturbance together with that over the northeast of England travelled eastwards and dispersed. The barometer therefore rose generally, and N. winds set in over the whole of western Europe. At the close of the week a large anticyclone was advancing across our Islands from the westward, and improving weather was reported generally.

*Temperature* was low for the time of year, more especially during the latter half of the week when the thermometer at many of our western and northern stations failed to reach 60°. On the 13<sup>th</sup> the daily maxima in the north mostly below 55°.

## 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 17<sup>th</sup> June.* 1890.  
 Issued by the Meteorological Office, 63, Victoria Street, London. R. H. SCOTT, Secretary.

Issued by the Meteorological Office, 65, Victoria Street, London. R. H. SCOTT, Secretary.

STATIONS.	YESTERDAY EVENING.						8 A.M. TO DAY.										PAST 24 HOURS.		
	Barom. Reading at 32° F. and Sea Level.	Temp. Dry.	Wind.		Weather.	Barometer. Reading at 32° F. and Sea Level.	Difference from 8 a.m. Yesterday.	Shade Temp.		Difference from 8 a.m. Yesterday.	Wind.		Sea (0 to 3.)	Shade Temp.		Amount of Rainfall.			
			Dir.	Force. (0 to 12.)				Dry.	Wet.		Dir.	Force. (0 to 12.)		Max.	Min.				
SCANDINAVIA.																			
Haparanda ...	29.49	45	SW	2	bc	29.64	+15	57	47	+1	NW	2	bc	•	54	37	—		
Hernösand ...	29.70	56	NW	2	bc	29.70	—13	54	46	0	NW	4	bc	•	66	46	—		
Stockholm ...	29.75	60	SW	2	o	29.73	—19	61	53	0	S	2	c	•	68	45	—		
Wisby ...	29.84	55	SW	2	bc	29.78	—17	54	53	0	W	4	7	•	72	45	—		
Bodö ...	29.71	44	WSW	4	o	29.67	+01	45	43	+2	W	0	o	•	45	41	0.69		
Christiansund ...	29.75	52	NNE	2	c	29.82	—09	51	49	0	ENE	2	7	2	52	50	0.01		
Skudesnaes ...	29.81	53	S	2	7	29.89	—14	54	52	+4	ENE	2	7	3	54	48	0.20		
Christiania Fjord (Pariser)	29.76	56	WSW	5	7	29.65	—24	55	54	—2	WSW	4	c	3	61	55	0.04		
Skagen (The Seaw)	29.82	54	W	4	o	29.78	—24	54	53	—1	W	4	m	4	57	52	0.01		
Fanö ...	29.99	54	SW	4	c	29.88	—27	53	53	+4	WSW	4	c	•	57	52	0.28		
BRITISH ISLANDS.																			
Sumburgh Head	29.70	52	WSW	4	c	29.59	—28	52	50	0	W	2	c	4	56	48	0.06		
Stornoway ...	29.77	54	W	4	cp	29.62	—22	52	52	—4	W	3	c	3	59	48	0.40		
Wick ...	29.78	60	W	2	bc	29.63	—20	56	53	—4	W	2	c	1	62	46	0.07		
Nairn ...	29.75	63	W	1	bc	29.69	—21	55	52	—3	W	1	c	1	66	49	0.01		
Aberdeen ...	29.83	63	W	1	c	29.70	—23	60	51	+3	WSW	3	bc	1	66	49	—		
Leith ...	29.50	61	W	2	c	29.78	—24	55	51	—3	WSW	2	o	•	67	49	0.25		
Shields ...	29.56	58	SW	2	c	29.83	—24	58	53	—7	WSW	0	c	2	68	52	0.12		
Spurn Head ...	29.03	63	WSW	3	bc	29.91	—25	57	54	—9	SW	4	o	4	72	52	0.13		
York ...	29.04	65	W	3	o	29.91	—26	57	53	—5	W	3	c	•	72	53	0.02		
Loughborough	29.10	67	WSW	3	c	29.98	—25	54	53	—5	W	1	c	•	71	51	0.13		
GERMANY & HOLLAND.																			
Ardrossan ...	29.53	57	WSW	1	c	29.81	—21	54	52	—2	WSW	3	c	2	59	50	0.22		
Malin Head ...	29.89	58	WSW	5	bc	29.82	—20	57	50	—3	W	5	cp	2	60	51	0.12		
Mullaghmore ...	29.98	59	SW	5	c	29.91	—17	56	53	0	SW	5	cp	3	61	53	0.02		
Belmullet ...	29.94	59	WSW	2	bc	29.92	—15	56	53	0	WSW	2	o	•	59	53	0.03		
Donaghadee ...	29.97	62	WSW	3	c	29.90	—18	58	54	—3	W	3	bc	1	63	55	0.05		
FRANCE AND BELGIUM.																			
Liverpool (Bidston)	29.08	59	SW	2	o	29.95	—23	56	52	—7	WSW	4	c	3	67	52	0.05		
Holyhead ...	29.08	53	SW	4	pmg	29.97	—21	53	52	+1	WSW	3	bc	3	59	50	0.02		
Parsonstown ...	29.04	61	SW	1	c	29.98	—16	53	54	—5	SW	2	c	•	64	51	0.15		
Valencia ...	29.11	58	WSW	4	om	29.01	—18	56	54	—1	S	3	pm	3	61	52	0.04		
Roche's Point...	29.14	57	SW	3	c.	29.03	—17	57	54	0	WSW	3	o	4	60	52	—		
GERMANY & HOLLAND.																			
Pembroke (St. Ann's Hd.)	29.14	54	WSW	4	o	29.04	—21	56	53	+2	WSW	3	c	4	56	50	0.15		
Scilly ...	29.18	57	WSW	3	o	29.08	—20	56	53	+1	WSW	3	c	2	58	51	0.17		
Prawle Point ...	29.21	54	W	2	o	29.10	—22	53	53	+3	W	3	om	2	55	52	0.10		
Jersey (St. Aubin's)	29.24	58	WSW	2	cp	29.14	—22	57	53	+3	WSW	3	cp	3	65	52	—		
Hurst Castle ...	29.20	56	SW	4	cp	29.08	—22	53	53	0	W	5	cp	3	60	54	0.06		
FRANCE AND BELGIUM.																			
Dungeness ...	29.17	53	W	5	m	29.03	—25	53	54	+2	WSW	5	7	4	60	53	0.01		
London ...	29.13	66	WSW	3	o	29.04	—24	53	54	—4	W	1	7	•	74	54	0.11		
Oxford ...	29.13	57	WSW	3	o	29.03	—24	53	53	0	SW	3	o	•	70	53	0.12		
Cambridge ...	29.09	68	SW	1	c	29.98	—25	56	53	—7	SW	1	7	•	74	53	0.11		
Yarmouth ...	29.08	71	WSW	2	bc	29.97	—23	56	53	—9	W	3	om	2	74	54	0.02		
GERMANY & HOLLAND.																			
Cuxhaven ...	29.14	57	WSW	3	o	29.98	—27	58	57	+6	SW	3	o	•	61	53	0.02		
Berlin ...	29.12	60	WSW	3	bc	29.04	—15	62	57	+6	WSW	3	o	•	66	54	—		
Wiesbaden ...	29.15	58	W	2	o	29.15	—15	58	54	—1	W	0	c	•	68	48	—		
Munich ...	29.28	53	W	2	o	29.23	—11	56	50	+7	SW	1	bc	•	59	41	0.04		
The Helder ...	29.28	53	W	2	o	29.23	—11	56	50	+7	SW	1	bc	•	59	41	0.04		
FRANCE AND BELGIUM.																			
Brussels (a.m.)	29.23	54	W	4	7	29.10	—22	59	53	+4	SW	2	o	•	70	54	—		
Cape Gris Nez	29.23	54	W	4	7	29.10	—22	59	53	+4	SW	2	o	•	70	54	—		
Paris ...	29.23	54	W	4	7	29.10	—22	59	53	+4	SW	2	o	•	70	54	—		
Brest ...	29.24	55	N	3	m	29.15	—15	58	56	+5	W	1	o	•	64	48	—		
Lorient ...	29.25	63	W	2	c	29.16	—16	57	53	+3	WSW	2	o	•	66	52	—		
FRANCE AND BELGIUM.																			
Rochefort ...	29.25	68	NW	3	bc	29.16	—13	62	60	+4	W	1	c	•	75	52	—		
Belfort ...	29.15	62	SW	1	bc	29.14	—15	59	48	—3	SW	1	bc	•	68	44	—		
Lyons ...	29.19	64	N	2	bc	29.20	—10	58	52	+4	WSW	1	bc	•	67	44	—		
Nice ...	29.06	66	W	2	bc	29.14	+10	66	57	+2	SW	1	bc	•	72	57	—		
Perpignan ...	29.10	76	NW	3	bc	29.17	0.0	53	57	—3	W	0	bc	•	82	50	—		
Biarritz ...	29.15	68	NNE	3	bc	29.16	—10	61	58	+2	S	3	bc	1	77	57	—		
FRANCE AND BELGIUM.																			
Corunna ...	29.04	75	NW	4	bc	29.12	—01	69	66	+1	N	1	bc	2	82	54	—		
Lisbon ...	29.04	75	NW	4	bc	29.09	+02	73	60	+5	N	0	bc	2	81	54	—		

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

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



# WEATHER CHARTS

for 8 a.m. on

Tuesday, 17<sup>th</sup> June.

1890.

## BAROMETER, WIND AND SEA.

### EXPLANATION OF MAP.

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

Changes since previous morning are stated in words.

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

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

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

○ = dead calm.

**SEA DISTURBANCE**—Where considerable, is shown thus:

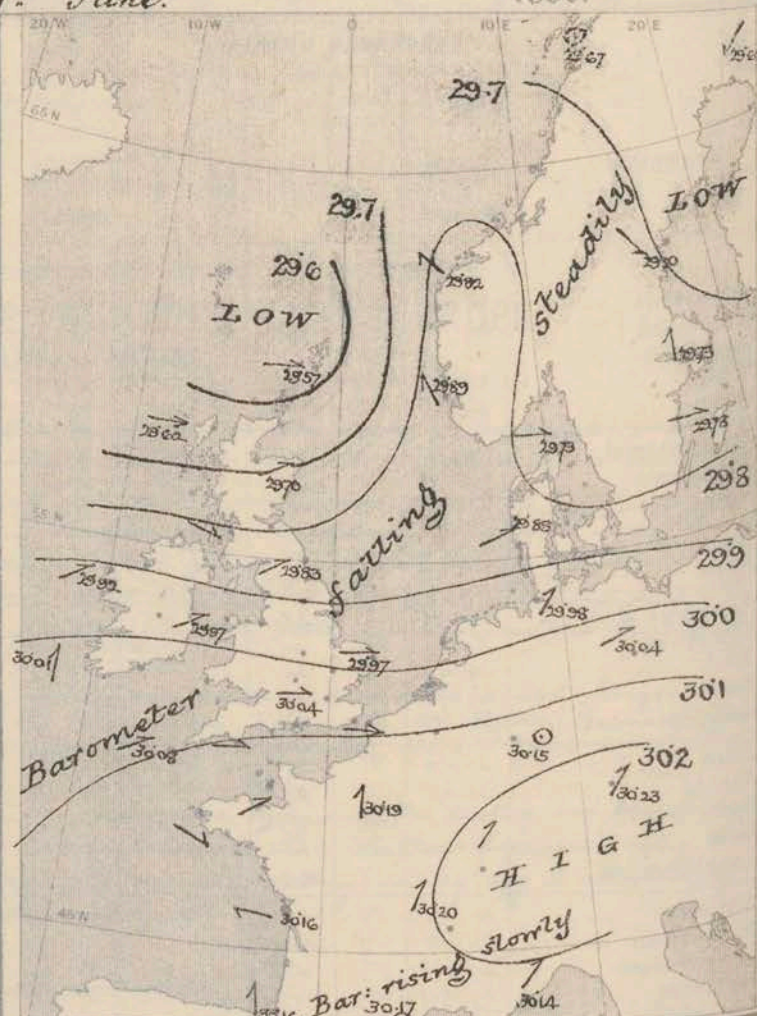
▨ = Rough. ▨ = High.

### MEAN HEIGHT OF THE BAROMETER

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

During the 15 Years: 1871—1885.

STATIONS.	MEAN READINGS.
Sumburgh Head .....	29.862
Stornoway .....	29.852
Wick .....	29.874
Nairn .....	29.880
Aberdeen .....	29.890
Leith .....	29.904
Shields .....	29.928
York .....	29.949
Loughborough .....	29.958
Ardrossan .....	29.909
Donaghadee .....	29.920
Holyhead .....	29.944
Liverpool .....	29.944
Parsonstown .....	29.952
Valencia .....	29.954
Roche's Point .....	29.952
Pembroke .....	29.952
Silly .....	29.982
Jersey .....	29.994
Hurst Castle .....	29.981
Dover .....	29.971
LONDON .....	29.976
Oxford .....	29.964
Cambridge .....	29.967
Yarmouth .....	29.963



## 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.

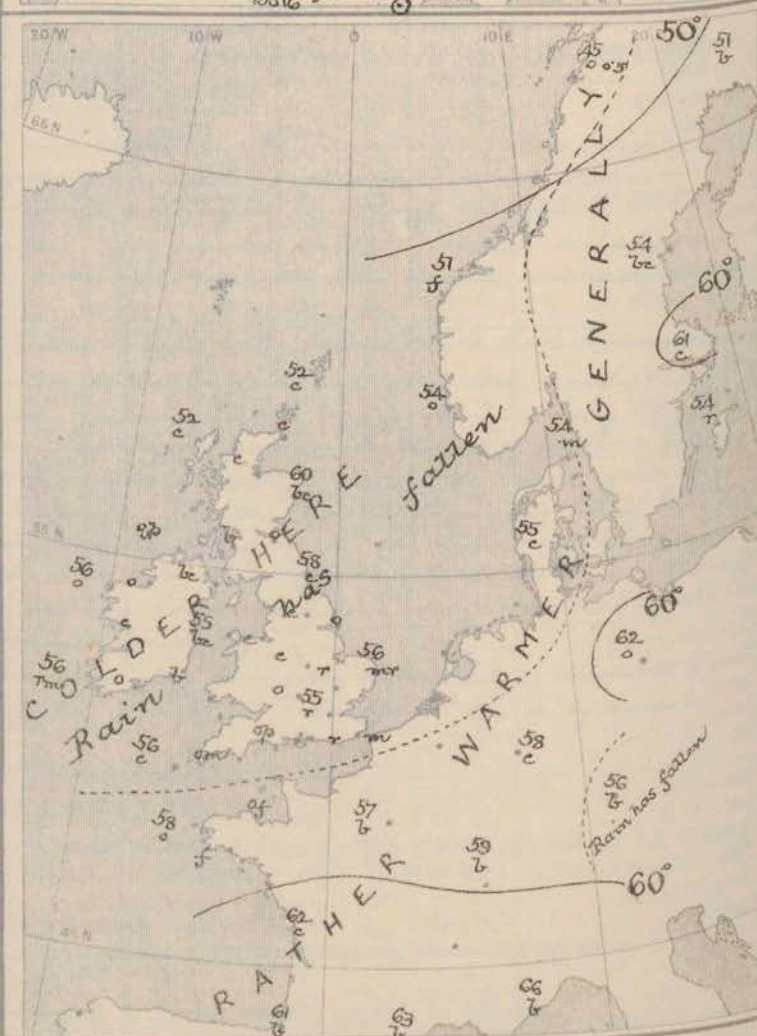
**RAINFALL**—A dotted line separates the districts in which rain has fallen from those where there has been none. Falls of 0.5 in. or more are quoted in figures.

### MEANS OF TEMPERATURE IN SHADE, AND RAINFALL.

(For the month of June.)

STATIONS.	TEMPERATURE.				RAINFALL (Inches.)
	Daily Max.	Daily Min.	at 8 a.m. Dry.	Wet.	
Sumburgh Head .....	51.5	45.1	50.4	48.7	2.07
Stornoway .....	57.6	46.0	53.3	51.0	2.99
Wick .....	58.8	45.7	53.1	50.4	1.75
Nairn .....	62.1	48.0	54.2	50.4	1.88
Aberdeen .....	61.3	47.6	54.7	50.9	1.88
Leith .....	64.5	48.1	56.0	52.5	1.84
Shields .....	60.9	49.1	54.9	51.9	1.82
York .....	66.2	48.3	56.1	52.7	2.45
Loughborough .....	68.7	49.0	58.1	54.1	2.43
Ardrossan .....	62.0	49.7	55.1	52.0	2.02
Donaghadee .....	60.9	48.9	55.0	52.8	2.04
Holyhead .....	61.7	51.6	55.6	53.1	2.10
Liverpool .....	63.6	50.9	56.6	52.6	1.96
Parsonstown .....	64.0	48.2	55.8	52.2	2.46
Valencia .....	61.7	50.7	56.8	53.8	3.42
Roche's Point .....	64.8	50.8	56.5	53.3	3.26
Pembroke .....	60.3	51.4	55.0	52.9	2.09
Silly .....	61.1	53.0	57.2	55.0	1.94
Jersey .....	64.8	52.0	58.7	55.9	1.83
Hurst Castle .....	63.9	51.9	57.6	55.4	2.07
Dover .....	63.3	53.1	58.6	55.1	1.72
LONDON .....	69.3	50.6	59.2	54.8	2.12
Oxford .....	67.1	49.4	56.9	53.4	2.28
Cambridge .....	68.8	48.5	58.0	54.7	2.49
Yarmouth .....	62.2	51.4	56.9	54.1	2.02

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 30.23 ins. at Munich; 30.1 ins. and upwards over South Germany, France, the Bay of Biscay and the north of Spain.

TEMPERATURE

Lowest 29.6 ins. and less in a depression lying to the northward of Scotland.

Gradients slight generally. Barometer falling at all but the southern French stations & vicinity.

Highest 73° at Lisbon, 66° at Nice, 63° at Larpignan, 62° at Berlin and Rochefort, and 61° at Stockholm.

Lowest 45° at Bodo, 51° at Haparanda, Christiansund and Malin Head, and 52° at Lumburg H. in Norway.

The highest maxima registered over our Islands yesterday were 74° in London and at Cambridge and Harwich, and 73° at Spurn Head.

WIND

Light or moderate from the W. or S.W. over the greater part of our Islands, and also in Denmark, Germany and the north of France, but S.W. at Valencia Island.

S.E. in the west of Norway, and also in the southwest of France, N. or N.W. in the north of Sweden.

WEATHER

Fine and bright over France, south Germany and the north of Sweden, and fair in the N. part of the United Kingdom.

Foggy at Jersey and Lorient; dull and rainy in the southeast of England, and also at Valencia Island.

Since yesterday morning rain has fallen in nearly all parts of the United Kingdom. Solar halos were seen last evening in the south of England.

SEA

Moderate to smooth.

## PROBABLE CHANGES IN SYSTEM NOW PREVALENT

Small shallow depressions, subsidiary to the disturbance in the north, are apparently advancing over our Islands, and showery weather is likely to prevail generally.

## FORECASTS

For the 24 hours ending at NOON on 18<sup>th</sup> June 1890.

DISTRICTS.

FORECASTS.

DISTRICTS.

FORECASTS.

0 SCOTLAND NORTH

W. to S.W. winds, light or moderate, fair to showery.

1 SCOTLAND EAST

2 ENGLAND N.E.

3 ENGLAND EAST

4 MIDLAND COUNTIES

5 ENGLAND SOUTH

S.W. winds moderate, changeable, some showers.

W. to S.W. winds, moderate, changeable, some showers.

6 SCOTLAND WEST

7 ENGLAND N.W.

8 ENGLAND S.W.

9 IRELAND NORTH

10 IRELAND SOUTH

S.W. winds, moderate, changeable, some showers.

S. or S.W. winds, moderate or fresh, unsettled, some rain.

WARNINGS

NONE ISSUED.

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

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



# YESTERDAY'S 2 P.M. REPORTS.

	BAR:	THER:		WIND		WEA.	SEA		BAR:	THER:		WIND		WEA.	SEA
		D.	W.	D.	F.					D.	W.	D.	F.		
Skudesnaes ...									Holyhead ...	20.12	55	SW	5	smfz	4
Sumburgh Head ...	29.74	54	54	W	3	0	3		Valencia ...	20.15	60	SW	4	sm	4
Stornoway ...	29.83	59	57	W	4	C	4		Scilly ...	20.24	56	SW	3	0	2
Aberdeen ...	29.88	64	58	SW	2	C	2		Jersey ...	20.29	63	SW	2	0	2
Shields ...	20.00	66	60	SW	4	C	2		Dungeness ...	20.22	59	W	4	sm	8
Ardrossan ...	20.00	57	52	SW	3	C	2		London ...	20.15	73	SW	3	0	2
Mulin Head ...	29.57	55	54	SW	4	0	2		Yarmouth ...	20.13	74	SW	4	0	2
Mullaghmore ...	29.98	60	56	SW	5	C	3		Rocheport ...	20.24	74	SW	3	sm	2
Belmullet ...	20.54	58	58	W	2	0	2								

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

*Weather* fine and bright over Finland and Sweden, and also over the greater part of France and southern Europe. Cloudy or overcast elsewhere, with fog over the English, Bristol and St. George's Channels, and rains in the Shetlands and Hebrides, as well as at Skudesnaes, Warsaw and Vienna. Showers falling later in nearly all parts of the United Kingdom. Solar halos seen in the south of England in evening.

*Temperature* highest 72° at Brindisi, 71° at Barcelona, 70° at San Fernando, and 69° at Bilbao and Leghorn; above 60° in some of the more eastern and central parts of the United Kingdom. Lowest 43° at Rodez, 42° at Warsaw, and 41° at Cracow and Lemberg, Vienna and Munich. Subsequently rising to 73° at Spangstedt, and to 74° at Cambridge, Yarmouth and in London; exceeding 80° in Spain and the extreme south of France.

*Wind* Light to moderate from the S<sup>W</sup> or S<sup>W</sup> in our Islands, and also in the north of Scandinavia; moderate from the W<sup>W</sup> over Denmark and the Baltic, light from the NW<sup>W</sup> or N<sup>W</sup> over Germany, Austria, Italy and the south of Russia, E<sup>W</sup> in the west of France, NE<sup>W</sup> in Spain; variable in Algeria.

*Barometer* highest 30.3 ins. and upwards in an anticyclone lying over the Channel, the north of France and western Germany. Lowest 29.5 ins. and less in a depression lying over Lapland, 29.6 ins. and less in another disturbance lying over the southern parts of central Russia, 29.9 ins. and less in a third system lying off the north of Scotland. Fall taking place during day in all parts of western Europe, and anticyclone to the south of our Islands gradually giving way.

### 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, 18<sup>th</sup> June, 1890.*  
*Issued by the Meteorological Office, 63, Victoria Street, London. R. H. SCOTT, Secretary.*

STATIONS.	YESTERDAY EVENING.					8 A.M. TO DAY.										PAST 24 HOURS.		
	BAROM.  Reading at 32° F. and Sea Level.	TEMP.  Dry.	WIND.		Weather.	BAROMETER.		SHADE TEMP.			WIND.		Weather.	Sea. (0 to 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.)			Max.	Min.		
SCANDINAVIA.	Haparanda ...	29.68	50	W	2	b.c.	29.81	+ 1.7	56	51	+ 5	NE	2	c	*	57	37	-
	Hernösand ...	29.67	49	Z	0	c	29.68	- 0.2	49	48	- 5	NE	4	r	*	59	43	0.32
	Stockholm ...	29.63	57	SSW	2	c	29.55	- 1.8	59	56	- 2	SSE	2	o	*	66	55	0.20
	Wisby ...	29.67	58	S	4	c	29.57	- 2.1	58	56	+ 4	SSW	4	c	*	73	52	0.04
	Bodö ...	29.70	48	N	2	b	29.71	+ 0.4	59	50	+ 14	NE	2	b	1	?	43	-
	Christiansund	29.60	54	NE	2	b.c.	29.67	- 1.5	51	48	0	E	3	f	1	57	48	-
	Skudesnaes ...	29.63	53	W	2	c	29.66	- 2.3	54	51	0	NW	4	o	3	57	48	0.12
	Christiania Fjord (Fæder)	29.53	55	SW	5	c	29.50	- 1.5	54	52	- 1	N	3	c	2	59	52	-
	Skagen (The Scaw)	29.59	52	W	2	c	29.53	- 2.0	55	52	+ 1	WNW	4	b	3	59	48	0.04
	Fanö ...	29.70	51	WNW	4	c	29.71	- 1.7	54	52	- 1	W	4	c	*	57	50	0.35
BRITISH ISLANDS.	Sumburgh Head	29.57	50	W	2	o	29.74	+ 1.7	51	50	- 1	WNW	2	o	4	56	47	0.04
	Stornoway ...	29.78	54	NW	5	b.c.	29.86	+ 2.4	50	50	- 2	S	3	o	3	57	47	0.03
	Wick ...	29.71	54	NW	2	b.c.	29.87	+ 2.4	53	49	- 3	NW	2	b.c.	1	58	43	0.26
	Nairn ...	29.73	57	W	2	c	29.81	+ 2.1	54	50	- 1	W	3	c	1	62	49	0.15
	Aberdeen ...	29.70	56	WNW	4	c.g.p.	29.89	+ 1.9	54	48	- 6	NW	3	c	2	63	49	0.08
	Leith ...	29.75	51	W	3	c	29.92	+ 1.4	57	53	+ 2	W	2	cm	*	61	47	0.01
	Shields ...	29.77	58	W	4	b.c.	29.95	+ 1.2	57	53	- 1	W	3	c	2	61	46	0.06
	Spurn Head ...	29.84	60	W	6	c	29.99	+ 0.8	56	53	- 1	W	4	c	4	62	51	-
	York ...	29.87	53	W	3	p	30.00	+ 0.9	58	52	+ 1	W	3	c	*	65	47	0.04
	Loughborough	29.93	60	W	5	b.c.	30.05	+ 0.7	60	55	+ 6	W	3	b.c.w	*	65	46	-
GERMANY & HOLLAND.	Ardrossan ...	29.85	58	WNW	3	b	29.95	+ 1.4	55	53	+ 1	SSW	2	o	1	58	51	-
	Malin Head ...	29.88	56	WNW	4	cp	29.91	+ 0.9	54	52	+ 3	SSE	2	o	1	59	51	-
	Mullaghmore ...	29.92	57	WNW	4	b.c.	29.93	+ 0.2	58	57	+ 2	SSW	3	o	2	59	52	0.03
	Belmullet ...	29.92	58	NW	1	o	29.93	+ 0.1	57	56	+ 1	WSW	3	o.p.	*	60	52	0.05
	Donaghadee ...	29.88	58	E.N.E.	3	b.c.	29.99	+ 0.9	55	53	- 3	SW	2	m	0	63	53	0.02
	Liverpool (Bidston)	29.92	55	WSW	4	o	30.03	+ 0.8	59	55	+ 3	WNW	2	c	3	61	53	-
	Holyhead ...	29.94	55	SW	4	c	30.04	+ 0.7	53	52	- 2	SSW	3	o.g.	2	60	50	-
	Parsonstown ...	29.93	59	Z	0	o	30.00	+ 0.2	60	59	+ 5	Z	0	o.g.	*	60	53	0.03
	Valencia ...	29.97	58	W	4	om	30.09	+ 0.8	58	57	+ 2	WSW	4	r.m.	4	59	54	0.24
	Roche's Point...	29.91	59	NW	3	c	30.07	+ 0.4	58	56	+ 1	WSW	3	o.m.	4	60	50	0.40
FRANCE AND BELGIUM.	Pembroke (St. Ann's Hd.)	29.95	52	S	3	r	30.09	+ 0.5	55	55	- 1	S	2	f	3	57	51	0.22
	Scilly ...	29.99	58	WSW	5	m	30.13	+ 0.5	58	58	+ 2	WSW	3	m	3	62	55	-
	Prawle Point ...	30.03	55	W	3	o	30.14	+ 0.4	58	57	+ 3	WNW	3	om	2	60	53	0.10
	Jersey (St. Aubin's)	30.11	59	W	4	b.c.m.	30.16	+ 0.2	57	57	0	W	4	o.f.r.	3	60	55	0.06
	Hurst Castle ...	30.02	56	W	6	r	30.11	+ 0.3	54	54	- 1	NW	1	o	3	61	52	0.10
	Dungeness ...	29.96	57	WSW	6	c	30.07	+ 0.4	56	54	+ 1	W	3	c	2	61	47	0.11
	London ...	29.97	57	W	1	r	30.10	+ 0.6	57	53	+ 2	W	2	b.c.	*	62	48	0.04
	Oxford ...	29.99	53	WSW	2	o	30.10	+ 0.7	56	53	+ 1	WSW	1	c	*	63	49	-
	Cambridge ...	29.94	58	SW	1	c	30.06	+ 0.8	59	55	+ 3	NW	1	b	*	64	46	0.02
	Yarmouth ...	29.88	58	Z	0	cp	30.02	+ 0.5	58	54	+ 2	NW	3	b	2	60	46	0.11
GERMANY & HOLLAND.	Cuxhaven ...	29.82	58	WNW	5	r	29.78	- 2.0	58	53	0	WNW	4	b.c.	*	63	57	0.24
	Berlin ...	29.86	66	WSW	3	o	29.80	- 2.4	55	52	- 4	WNW	4	o	*	73	52	0.55
	Wiesbaden ...	*	*	*	*	*	30.03	- 1.2	59	54	+ 1	W	3	c	*	72	54	0.20
	Munich ...	30.07	59	Z	0	c	30.08	- 1.5	51	51	- 5	NW	5	r	*	68	?	0.32
	The Helder ...	29.86	55	WSW	3	c	29.94	- 1.4	55	53	- 2	WNW	3	c	3	57	54	0.08
	Brussels (9 a.m.)	*	*	*	*	*	30.06	- 0.4	59	55	0	WNW	1	c	*	68	51	0.12
	Cape Gris Nez	?	55	W	5	o	?	?	54	53	- 1	W	2	b.c.	2	59	50	0.20
	Paris ...	30.05	66	WNW	9	o	30.14	- 0.5	55	54	- 2	SSW	1	r	*	76	53	0.04
	Brest ...	30.13	60	W	2	o	30.17	+ 0.2	59	56	+ 1	Z	0	o	2	63	52	-
	Lorient ...	30.17	59	WNW	4	o	30.22	+ 0.6	58	52	+ 1	W	2	m	3	63	57	-
FRANCE AND BELGIUM.	Rochefort ...	30.15	65	NW	4	c	30.22	+ 0.6	61	61	- 1	W	4	o	2	73	54	-
	Belfort ...	30.08	61	W	1	b	30.09	- 0.5	57	48	- 2	NW	1	r	*	69	47	-
	Lyons ...	30.08	73	SE	1	b	30.17	- 0.3	64	58	+ 6	WNW	1	o	*	77	58	-
	Nice ...	30.13	63	Z	0	c	30.07	- 0.7	65	59	- 1	E.N.E.	2	b	1	73	55	-
	Perpignan ...	30.13	?	E	?	?	30.21	+ 0.4	72	53	+ 9	W	2	b.c.	*	75	59	-
	Biarritz ...	30.18	68	WNW	2	b	30.30	+ 1.4	63	60	+ 2	WSW	1	o	1	75	59	-
	Corunna ...	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Lisbon ...	30.10	78	WNW	5	b	30.17	+ 0.8	74	58	+ 1	N	2	b	4	86	68	-

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

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



# WEATHER CHARTS

for 8 a.m. on Wednesday, 18<sup>th</sup> June 1890.

## BAROMETER, WIND AND SEA.

### EXPLANATION OF MAP.

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

Changes since previous morning are stated in words.

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

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

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

☉ = dead calm.

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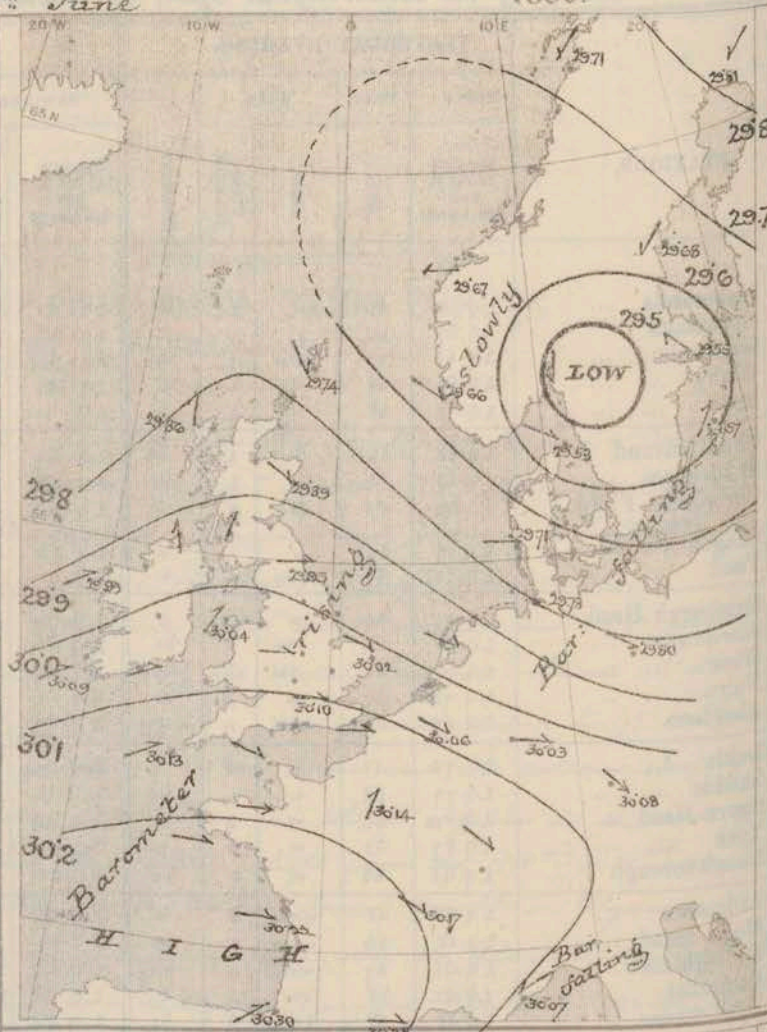
▨ = Rough. ▨ = High.

## MEAN HEIGHT OF THE BAROMETER

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

During the 15 Years: 1871—1885.

STATIONS.	MEAN READINGS.
Samburgh Head .....	29.862
Stornoway .....	29.852
Wick .....	29.871
Nairn .....	29.880
Aberdeen .....	29.890
Leith .....	29.904
Shields .....	29.928
York .....	29.949
Loughborough .....	29.958
Ardrossan .....	29.909
Donaghadee .....	29.920
Holyhead .....	29.944
Liverpool .....	29.944
Parsonstown .....	29.952
Valencia .....	29.954
Roche's Point .....	29.952
Pembroke .....	29.952
Sally .....	29.982
Jersey .....	29.994
Hurst Castle .....	29.981
Dover .....	29.971
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## 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 June.)

STATIONS.	TEMPERATURE.				RAINFALL (Inches.)
	Daily Max.	Daily Min.	at 8 a.m.		
			Dry.	Wet.	
Samburgh Head.....	51.5	45.1	50.4	48.7	2.07
Stornoway .....	57.0	40.0	53.3	51.0	2.09
Wick .....	55.8	45.7	53.1	50.4	1.75
Nairn .....	62.1	48.0	54.2	50.4	1.88
Aberdeen .....	61.3	47.5	54.7	50.9	1.88
Leith .....	64.5	48.1	56.0	52.5	1.84
Shields .....	60.9	49.1	54.9	51.9	1.82
York .....	65.2	48.3	56.1	52.7	2.45
Loughborough .....	63.7	49.0	58.1	54.1	2.43
Ardrossan .....	63.0	49.7	55.1	52.0	2.02
Donaghadee.....	60.9	48.9	55.0	52.8	2.04
Holyhead.....	61.7	51.6	56.6	53.1	2.10
Liverpool .....	63.6	50.9	56.6	52.6	1.96
Parsonstown .....	64.0	48.2	55.8	52.2	2.46
Valencia .....	61.7	50.7	56.8	53.8	3.42
Roche's Point .....	64.8	50.8	56.5	53.3	3.26
Pembroke.....	60.3	51.4	55.0	52.9	2.09
Sally .....	61.1	53.0	57.2	55.0	1.94
Jersey .....	64.8	52.6	58.7	55.9	1.83
Hurst Castle .....	63.9	51.9	57.6	55.4	2.07
Dover .....	63.3	53.1	58.6	55.1	1.72
LONDON .....	69.3	50.6	59.2	54.8	2.12
Oxford .....	67.1	49.4	56.9	53.4	2.28
Cambridge .....	68.8	48.5	58.0	54.7	2.49
Yarmouth .....	62.2	51.4	56.9	54.1	2.02

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





# GENERAL SITUATION AT 8 A.M.

## PRESSURE

Highest 30.0 ins. to 30.3 ins. and more over the Bay of Biscay, Spain, France and the southern half of the British Islands.  
 Lowest 29.5 ins. and less in a depression over the south of Sweden, and apparently about 29.8 ins. a little to the northwestward of Norway.

## TEMPERATURE

Gradients were slight over the southern parts of our area, moderate elsewhere.  
 Barometer rising in our Islands, falling to the eastward of the North Sea.  
 Highest 74° at Lisbon, 72° at Perpignan, 65° at Nice, 64° at Lyons, 60° at Loughborough.  
 Lowest 49° at Helsingfors, 50° at Hørnø, 51° at Lumburg Head and Christiansund.  
 In London the temperature was 54°, and was rising quickly.

## WIND

Moderate from WNW in the Netherlands, Denmark, and the south of Norway, S<sup>3</sup> in the south of Sweden, E<sup>4</sup> in the north of Norway.  
 W<sup>7</sup> over England and the south of Ireland, SW<sup>2</sup> in the north of Ireland, S<sup>3</sup> in the west of Scotland.  
 In France it was W<sup>4</sup> and variable, at Lisbon N<sup>4</sup>.

## WEATHER

Changeable, fair as a whole over England, dull in the west of our Islands, rainy at the Azores, and also in several parts of France and south Germany. At Lisbon it was clear.  
 Rain has fallen since yesterday morning in most parts of our Islands and their neighbourhood.

## SEA

Moderate in the far west, slight or smooth elsewhere, smooth both at Holyhead and Dungeness.

## PROBABLE CHANGES IN SYSTEM NOW PREVALENT

A new depression seems to be approaching our northwestern coasts from the Atlantic, but of its area and intensity nothing is known at present.

# FORECASTS

For the 24 hours ending at NOON on 19<sup>TH</sup> JUNE 1890.

## DISTRICTS.

## FORECASTS.

- |   |                  |  |
|---|------------------|--|
| 0 | SCOTLAND NORTH   | SW <sup>2</sup> and W <sup>2</sup> winds; changeable, rainy, unsettled.                  |
| 1 | SCOTLAND EAST    |  |
| 2 | ENGLAND N.E.     | SW <sup>2</sup> and W <sup>2</sup> winds, fair to showery.                               |
| 3 | ENGLAND EAST     |  |
| 4 | MIDLAND COUNTIES | SW <sup>2</sup> winds, moderate, fair; then W <sup>2</sup> moderate or fresh, and rainy. |
| 5 | ENGLAND SOUTH    |  |

## DISTRICTS.

## FORECASTS.

- |    |               |  |
|----|---------------|--|
| 6  | SCOTLAND WEST | Same as N.° 0.   |
| 7  | ENGLAND N.W.  |  |
| 8  | ENGLAND S.W.  | SW <sup>2</sup> to NW <sup>2</sup> winds, 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 veer towards N. or N.E., the North Cone is hoisted in preference to the South Cone.  
 The North Cone, point upwards (∇), means that gales, or strong winds, are probable, at first from the Northward (from N.W. round by N. to S.E.). Should it appear likely that a gale beginning from between E. and S.E. is likely to veer towards S. or S.W., the South Cone is hoisted in preference to the North Cone.



# YESTERDAY'S 2 P.M. REPORTS.

THER: WIND								THER: WIND							
	BAR:	D.	W.	D.	F.	WEA.	SEA		BAR:	D.	W.	D.	F.	WEA.	SEA
Skudesnaes ...	29.66	57	53	WSW	2	c	3	Holyhead ...	29.96	56	52	SW	5	cq	4
Sumburgh Head	29.57	54	52	W	3	bc	4	Valencia ...	29.93	59	58	WSW	4	rm	4
Stornoway ...	29.68	55	55	NW	4	bc	4	Scilly ...	30.07	62	60	SSW	4	c	2
Aberdeen ...	29.66	57	52	SW	3	c	1	Jersey ...	30.15	60	57	WSW	4	o	3
Shields ...	29.79	58	54	W	4	c	2	Dungeness ...	30.00	60	57	WSW	6	c	5
Ardrossan ...	29.80	56	54	WSW	3	bc	2	London ...	29.99	64	57	WSW	3	c	*
Malin Head ...	29.85	58	54	W	5	b	3	Yarmouth ...	29.93	59	56	WSW	2	c	2
Mullaghmore ...	29.91	57	54	WSW	5	c	2	Rochefort ...	30.15	71	69	NW	3	m	*
Belmullet ...	29.94	59	54	W	2	o	*								

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

Weather fine and bright in Finland and the north of Sweden, as well as over France, and the whole of southern Europe; fair in the northern parts of the United Kingdom. Dull elsewhere, with fog at Christiansund, Jersey, Lorient and Corunna, and rain in the southeast of England, as well as at Valencia Island, Helsingfors, Wisley and Kiev. Showers falling during day in nearly all parts of northwestern Europe.

Temperature highest 73° at Lisbon, 72° at Brindisi, 69° at Corunna, and 68° at Bilbao and Langensiepe, above 60° over southern Europe generally, as well as in some parts of north Germany. Lowest 45° at Bodo, 48° at Hermannstadt, 50° at Odessa, and 51° at Haparanda, Christiansund, Malin Head, Prague and Nicolaieff. Daily maxima over England considerably lower than on previous days; highest reading of all being only 65° (at York and Loughborough). Thermometer exceeding 75° in France.

Wind light or moderate from the W. or SW. over the greater part of our Islands, as well as over Finland, the Baltic, Denmark and the northern parts of Germany and France, SE<sup>2</sup> in the west of Norway, NW<sup>2</sup> in Austria, eastern Germany and the south of Russia, as well as in the north of Sweden, variable in France, Spain, Italy and Algeria. Subsequently veering to the NW and at many of the Irish and Scotch stations.

Barometer highest 30.2 ins and upwards over south Germany and the east of France, 30.1 ins. and upwards in a large anticyclone lying over nearly the whole of France and southern Europe. Lowest 29.6 ins. and less in a large depression lying to the northward of Scotland. Latter subsequently travelling eastwards; small secondary disturbances passing across the United Kingdom during day.

## EXPLANATION OF COLUMNS GIVEN ON PAGE 1.

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

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

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

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



# DAILY WEATHER REPORT.

for *Thursday, 19<sup>th</sup> June, 1890.*  
 Issued by the Meteorological Office, 63, Victoria Street, London. *R. H. SCOTT, Secretary.*

Issued by the Meteorological Office, 55, Victoria Street, London. R. H. SCOTT, Secretary.

STATIONS.	YESTERDAY EVENING.					8 A.M. TO DAY.										PAST 24 HOURS.		
	BAROM. Reading at 3 <sup>rd</sup> P. and Sea Level.	TEMP. Dry.	WIND.		Weather.	BAROMETER.		SHADE TEMP.			WIND.		Weather.	Sea. (0 to 5.)	SHADE TEMP.		Amount of Rainfall.	
			Dirac.	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.	Dirac.	Force. (0 to 12.)			Max.	Min.		
SCANDINAVIA.	Haparanda ...	29.56	57	Z	0	6	29.98	+1.17	63	55	+7	NW	2	0	*	68	43	-
	Hernösand ...	29.75	50	NE	2	7	29.51	+1.13	55	52	+6	ESE	2	0	*	57	48	0.67
	Stockholm ...	29.62	55	ESE	2	7	29.73	+1.18	56	54	-3	ESE	2	0	*	64	54	0.16
	Wibby ...	29.64	54	NW	2	7	29.68	+1.11	56	54	-2	NW	2	0	*	64	52	0.04
	Bodö ...	29.73	54	N	2	6	29.80	+1.09	64	59	+5	E	2	0	*	64	54	-
	Christiansund ...	29.71	52	N	1	7	29.73	+1.06	52	50	+1	NW	1	0	2	52	50	-
	Skudesnaes ...	29.74	52	NW	1	7	29.80	+1.14	53	57	-1	NW	6	0	3	54	45	-
	Christiania Fjord (Færdler)	29.58	59	WSW	2	6	29.66	+1.16	58	54	+4	Z	0	60	2	61	52	0.04
	Skagen (The Seaw)	29.60	54	NW	3	6	29.64	+1.11	59	55	+4	NW	2	0	2	61	48	-
	Fanö ...	29.82	50	W	6	6	29.78	+1.07	53	50	-1	NW	4	0	*	57	50	0.04
BRITISH ISLANDS.	Sumburgh Head ...	29.76	50	W	2	6	29.78	+1.04	52	52	+1	NW	2	0	4	54	46	0.04
	Stornoway ...	29.76	55	SE	4	7	29.90	+1.04	55	53	+5	W	3	0	3	55	48	0.52
	Wick ...	29.80	50	S	2	7	29.89	+1.02	55	54	+2	NW	2	0	1	58	46	0.28
	Nairn ...	29.78	55	Z	0	0	29.92	+1.04	55	53	+1	W	1	0	1	61	52	0.17
	Aberdeen ...	29.81	51	SSW	2	07	29.93	+1.04	57	52	+3	NW	3	0	2	60	50	0.16
	Leith ...	29.82	56	W	1	7	29.98	+1.06	57	53	0	W	2	0	*	62	51	0.12
	Shields ...	29.87	58	S	3	7	29.99	+1.04	60	53	+3	NW	4	0	2	66	51	0.14
	Spurn Head ...	29.44	60	SW	3	7	30.01	+1.02	58	54	+2	NW	7	0	4	64	54	0.09
	York ...	29.94	59	S	1	7	30.05	+1.05	57	54	-1	W	2	0	*	67	50	0.13
	Loughborough ...	29.99	63	WSW	3	0	30.11	+1.06	56	53	-4	NW	2	0	*	68	52	0.09
GERMANY & HOLLAND.	Ardrossan ...	29.88	57	NW	3	0	30.05	+1.10	57	54	+2	W	4	0	3	58	52	0.21
	Malin Head ...	29.92	55	W	4	0	30.05	+1.14	55	52	+1	WSW	3	0	2	57	51	0.21
	Mullaghmore ...	30.00	57	WSW	6	0	30.10	+1.17	56	53	-2	SW	4	0	3	60	52	0.17
	Belmullet ...	30.03	58	W	4	0	30.09	+1.16	54	53	-3	SW	3	0	*	59	53	0.19
	Donaghadee ...	29.93	64	NW	3	0	30.10	+1.11	56	54	+1	W	3	0	1	64	54	0.11
	Liverpool (Bidston)	29.97	59	WSW	5	7	30.11	+1.08	56	53	-3	W	5	0	4	62	53	0.26
	Holyhead ...	30.00	56	W	3	7	30.14	+1.10	55	53	+2	NW	4	0	4	58	52	0.19
	Parsonstown ...	30.05	61	SW	2	7	30.15	+1.15	57	55	-3	SW	2	0	*	62	50	0.04
	Valencia ...	30.16	59	NW	3	0	30.22	+1.13	56	54	-2	WSW	3	0	3	61	51	0.09
	Roche's Point...	30.11	60	NW	4	0	30.21	+1.14	57	53	-1	WSW	3	0	3	64	51	-
FRANCE AND BELGIUM.	Pembroke (St. Ann's Hd.)	30.09	55	SW	4	0	30.20	+1.11	54	52	-1	NW	3	0	3	57	53	0.04
	Seilly ...	30.18	58	WSW	3	0	30.23	+1.10	57	55	-1	NW	3	0	3	60	53	-
	Prawle Point ...	30.16	59	NW	3	7	30.23	+1.09	57	55	-1	NW	2	0	2	59	52	0.01
	Jersey (St. Aubin's)	30.21	61	NW	4	0	30.25	+1.09	58	55	+1	W	4	0	3	62	55	0.02
	Hurst Castle ...	30.14	60	WSW	5	0	30.16	+1.05	60	57	+6	NW	3	0	2	63	54	-
	Dungeness ...	30.09	57	WSW	5	0	30.09	+1.02	62	57	+6	NW	3	0	2	63	55	0.02
	London ...	30.06	63	SW	3	0	30.11	+1.01	60	54	+3	NW	3	0	*	68	55	-
	Oxford ...	30.06	60	SW	4	0	30.13	+1.03	59	55	+3	NW	3	0	*	68	52	-
	Cambridge ...	30.00	65	W	1	0	30.10	+1.04	61	55	+2	W	1	0	*	70	54	0.02
	Yarmouth ...	30.00	64	W	1	0	30.01	-1.01	60	55	+2	NW	4	0	2	66	55	0.10
GERMANY & HOLLAND.	Cuxhaven ...	29.89	55	NW	4	0	29.94	+1.06	55	54	-3	S	1	0	*	60	54	0.08
	Berlin ...	29.90	56	NW	3	0	29.90	+1.10	57	53	+2	WSW	3	0	*	64	50	0.24
	Wiesbaden ...	*	*	*	*	*	30.01	-1.02	60	58	+1	NW	3	0	*	70	54	0.16
	Munich ...	30.19	56	Z	0	0	30.15	+1.07	58	54	+7	SW	3	0	*	63	57	0.20
	The Helder ...	30.00	58	WSW	1	7	29.90	-1.04	56	54	+1	NW	4	0	3	61	55	0.28
	Brussels (8 a.m.)	*	*	*	*	*	30.05	-1.01	58	56	-1	NW	2	0	*	69	55	0.04
	Cape Gris Nez ...	30.00	58	SSW	5	7	?	?	57	55	+3	W	4	0	4	61	54	-
	Paris ...	30.18	67	NW	2	0	30.17	+1.03	63	58	+8	W	3	0	*	71	?	0.08
	Brest ...	30.24	62	Z	0	0	30.26	+1.09	57	55	-2	N	1	0	2	63	50	-
	Lorient ...	30.25	61	W	2	0	30.27	+1.05	57	55	-1	NW	2	0	2	63	57	-
FRANCE AND BELGIUM.	Rochefort ...	30.25	66	NW	3	0	30.25	+1.03	63	62	+2	NW	3	0	*	68	55	-
	Belfort ...	30.15	62	W	1	0	30.15	+1.06	59	48	+2	W	1	0	*	68	50	0.04
	Lyons ...	30.26	62	SE	1	0	30.25	+1.08	59	57	-5	W	1	0	*	69	54	-
	Nice ...	30.01	64	SE	5	0	30.12	+1.05	66	62	+1	NE	4	0	2	73	59	-
	Perpignan ...	30.16	81	NW	3	0	30.18	-1.03	76	66	+4	SW	2	0	*	85	61	-
	Biarritz ...	30.26	69	NNE	3	0	30.28	-1.02	64	62	+1	NNE	2	0	1	75	63	-
	Corunna ...	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	
	Lisbon ...	30.10	76	NW	5	0	30.08	-1.09	68	59	-6	NNE	2	0	2	88	64	-

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

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



# WEATHER CHARTS

for 8 a.m. on

Thursday, 19<sup>th</sup> June

1890.

## BAROMETER, WIND AND SEA.

### EXPLANATION OF MAP.

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

Changes since previous morning are stated in words.

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

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

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

○ = dead calm.

**SEA DISTURBANCE**—Where considerable, is shewn thus:

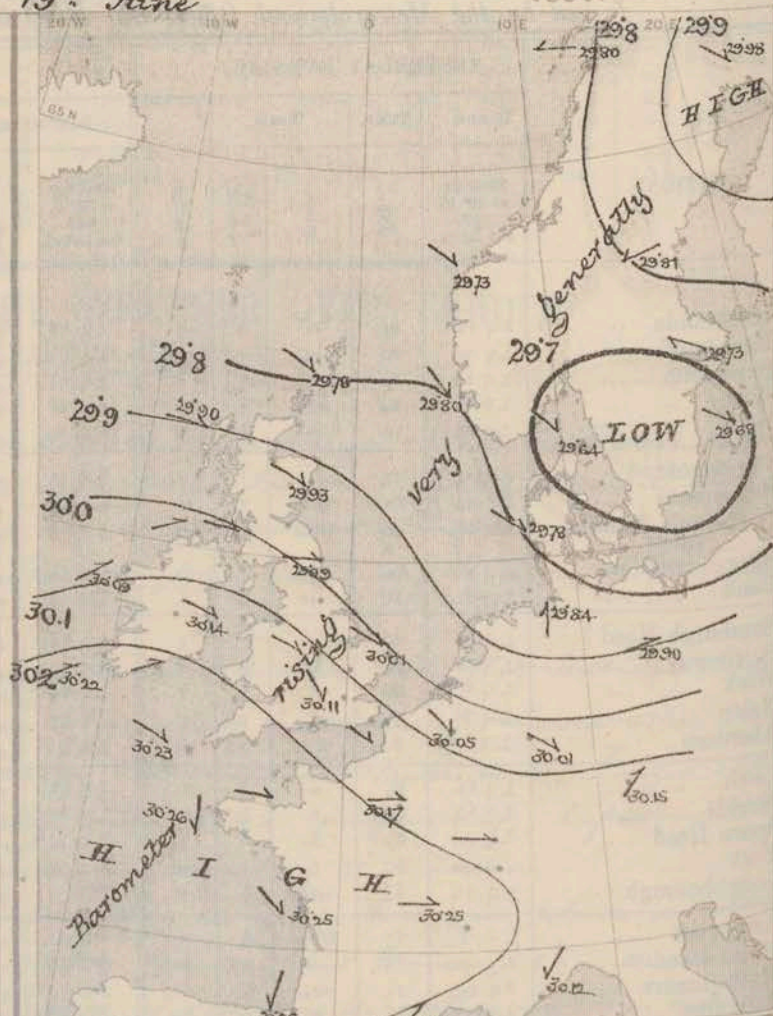
▨ = Rough. ▨ = High.

## MEAN HEIGHT OF THE BAROMETER

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

During the 15 Years: 1871—1885.

STATIONS.	MEAN READINGS.
Sumburgh Head .....	29.862
Sornoway .....	29.852
Wick .....	29.874
Nairn .....	29.880
Aberdeen .....	29.890
Leith .....	29.904
Shields .....	29.928
York .....	29.940
Loughborough .....	29.958
Ardrossan .....	29.900
Donaghadee .....	29.920
Holyhead .....	29.944
Liverpool .....	29.944
Parsonstown .....	29.952
Valencia .....	29.954
Roche's Point .....	29.952
Pembroke .....	29.952
Sally .....	29.952
Jersey .....	29.994
Hurst Castle .....	29.981
Dover .....	29.971
LONDON .....	29.976
Oxford .....	29.964
Cambridge .....	29.967
Yarmouth .....	29.963



## 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.

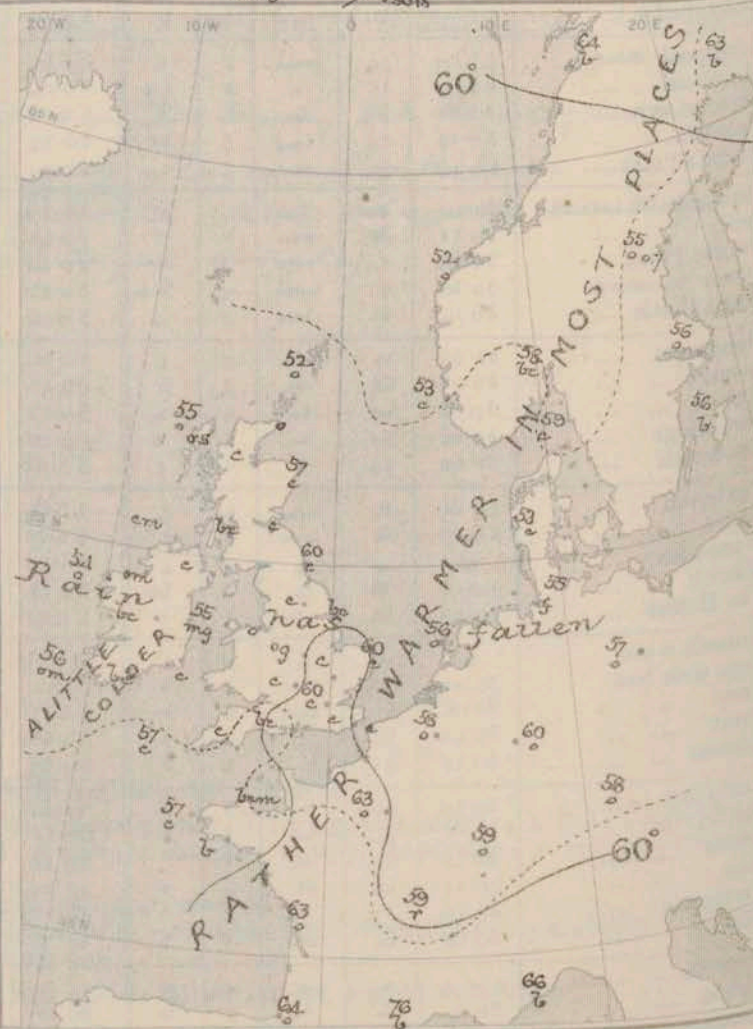
**RAINFALL**—A dotted line separates the districts in which rain has fallen from those where there has been none. Falls of 0.5 in. or more are quoted in figures.

### MEANS OF TEMPERATURE IN SHADE, AND RAINFALL.

(For the month of June.)

STATIONS.	TEMPERATURE.				RAINFALL. (Inches.)
	Daily Max.	Daily Min.	at 8 a.m.		
			Dry.	Wet.	
Sumburgh Head.....	54.5	45.1	50.4	48.7	2.07
Sornoway .....	57.0	46.0	53.3	51.0	2.99
Wick .....	58.8	45.7	53.1	50.4	1.75
Nairn .....	62.1	48.0	54.2	50.4	1.88
Aberdeen .....	61.3	47.5	54.7	50.9	1.88
Leith .....	64.5	48.1	56.0	53.5	1.84
Shields .....	60.9	49.1	54.9	51.9	1.62
York .....	66.2	48.3	56.1	52.7	2.45
Loughborough .....	68.7	49.0	58.1	54.1	2.43
Ardrossan .....	62.0	49.7	56.1	52.0	2.02
Donaghadee .....	60.9	48.9	55.0	52.8	2.04
Holyhead .....	61.7	51.6	56.6	53.1	2.10
Liverpool .....	63.6	50.9	56.6	52.6	1.96
Parsonstown .....	64.0	48.2	55.8	52.2	2.46
Valencia .....	61.7	50.7	56.8	53.8	3.42
Roche's Point .....	64.8	50.8	56.5	53.3	3.25
Pembroke .....	60.3	51.4	55.0	52.9	2.09
Sally .....	61.1	53.0	57.2	55.0	1.94
Jersey .....	64.8	52.6	58.7	55.9	1.83
Hurst Castle .....	63.9	51.9	57.6	55.4	2.07
Dover .....	63.8	53.1	58.0	55.1	1.72
LONDON .....	69.3	50.6	59.2	54.8	2.12
Oxford .....	67.1	49.4	56.9	53.4	2.28
Cambridge .....	68.8	48.5	58.0	54.7	2.49
Yarmouth .....	62.2	51.4	56.9	54.1	2.02

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





# GENERAL SITUATION AT 8 A.M.

## PRESSURE

Highest (1) 30.1 ins. to nearly 30.3 ins. in an anticyclone lying over the Bay of Biscay, Spain, France, and the southwestern parts of our Islands; (2) 29.8 ins. to about 30.0 ins. over Lapland and the north of Sweden. Lowest 29.4 ins. and less in a shallow disturbance over the south of Sweden, and about the same value off the W. coast of Norway. Gradients are moderate to slight, and somewhat variable. Barometer is rising except in the extreme west, where a slight fall had set in during the night.

## TEMPERATURE

Highest (1) 76° at Perpignan, 68° at Lisbon, 66° at Nice, 63° at Paris, 60° in London; (2) 64° at Bodø, 63° at Haparanda. Lowest 52° at Christiansund and Larnburgh Head, 53° at Skudenes and Trane, and 55° at Holyhead and Loughaven. It rose to between 65° and 70° over central England yesterday.

## WIND

NW<sup>2</sup>, moderate, over the North Sea and England, W<sup>2</sup> in Scotland, SW<sup>2</sup> in Ireland, N<sup>2</sup> over the Bay of Biscay, and at Lisbon.

## WEATHER

Over Sweden and at Bodø there is a light breeze from the E and fine and bright at Lisbon, in the west of France, and in the north of Scandinavia. Cloudy more or less elsewhere; rain is falling at Lyons. The showers reported yesterday, though somewhat general, were heavy in the N. of Scotland only. In London they were very slight.

## SEA

Moderate to slight on our coasts generally, smooth over the Bay of Biscay.

## PROBABLE CHANGES IN SYSTEM NOW PREVALENT

A continuation of rather changeable weather (showers with bright intervals, and unsteady temperature) seems probable - the showers are likely to be heaviest in the west and north.

## FORECASTS

For the 24 hours ending at NOON on 20<sup>th</sup> June 1890.

### DISTRICTS.

### FORECASTS.

### DISTRICTS.

### FORECASTS.

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

W<sup>2</sup> to S<sup>2</sup> winds; fair to rainy and unsettled.

NW<sup>2</sup> to W<sup>2</sup> breezes, moderate or tight, fair; then SW<sup>2</sup> light, warmer, but possibly less fair.

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

Wind backing towards S; fair to rainy and unsettled.

### WARNINGS

NONE ISSUED.

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



# YESTERDAY'S 2 P.M. REPORTS.

	BAR:	THER:		WIND		WEA.	SEA		BAR:	THER:		WIND		WEA.	SEA
		D.	W.	D.	F.					D.	W.	D.	F.		
Skudesnaes ...	29.71	54	50	NW	7	c	4		Holyhead ...	30.01	56	55	SW	4	3
Sumburgh Head ...	29.75	53	52	NW	2	c	4		Valencia ...	30.12	59	58	W	4	4
Stornoway ...	29.77	54	53	S	4	c	3		Scilly ...	30.17	60	58	WSW	3	3
Aberdeen ...	29.88	54	48	SE	3	c	2		Jersey ...	30.22	62	59	WSW	3	3
Shields ...	29.92	55	58	W	3	c	2		Dungeness ...	30.10	60	56	WSW	5	4
Ardrossan ...	29.89	55	54	W	0	c	0		London ...	30.09	68	61	W	3	*
Malin Head ...	29.88	55	55	WSW	4	0	2		Yarmouth ...	30.03	66	58	WSW	3	2
Mullaghmore ...	29.96	57	56	WSW	5	0	3		Rochefort ...	30.27	65	63	WSW	4	2
Behmullet ...	29.99	59	58	W	4	0	*								

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

Weather fine and bright over southern Europe and Algeria, as well as at some of the Russian Stations; fair in Denmark and most parts of Great Britain, but foggy in the southwest. Dull elsewhere, with rain in the west of Ireland, as well as at several of the Swedish, French, German and Austrian Stations. Showers falling later in nearly all parts of the United Kingdom, and heavy rain (0.5 in) at Stornoway.

Temperature highest 74° at Lisbon, 73° at Barcelona, 72° at Perpignan and Brindisi, and 69° at Leghorn; above 60° over southern Europe generally, as well as at some of the Baltic Stations. Lowest 49° at Hernösand, 50° at Stornoway, 51° at Christiansund, Sumburgh Head and Munich, and 52° at Munster. Daily maxima over eastern and central England, varying between 65° and 70°, thermometer exceeding 80° in Spain and the south of France.

Wind light or moderate from the S<sup>W</sup> or S<sup>W</sup> in the west of our Islands, and from the W<sup>W</sup> or NW<sup>W</sup> over our eastern districts, France, the North Sea, Denmark and western Germany. S<sup>W</sup> over the Baltic, and E<sup>W</sup> or NE<sup>W</sup> over the northern parts of Scandinavia, but variable over Russia, Italy and Algeria. Subsequently veering to the W<sup>W</sup> on our west coasts, and backing to the S<sup>W</sup> in the east; no important change occurring at the Continental Stations.

Barometer highest 30.2 ins and upwards in an anticyclone extending northwards from Algeria to the Bay of Biscay, and west of France. Lowest 29.5 ins and less in a depression lying over the south of Sweden. New disturbance approaching the northwest of our Islands later, but Swedish depression beginning to fill 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 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, 20<sup>th</sup> June, 1890.*  
 Issued by the Meteorological Office, 63, Victoria Street, London. R. H. SCOTT, Secretary.

Issued by the Meteorological Office, 55, Victoria Street, London. R. H. SCOTT, Secretary.																		
STATIONS.	YESTERDAY EVENING.					8 A.M. TO DAY.										PAST 24 HOURS.		
	BAROM.	TEMP.	WIND.		Weather.	BAROMETER.		SHADE TEMP.			WIND.		Weather.	Sea. (0 to 9.)	SHADE TEMP.		Amount of Rainfall.	
	Reading at 32° F. and Sea Level.	Dry.	Dir.	Force. (0 to 12.)		Reading at 32° F. and Sea Level.	Difference from 8 a.m. yesterday.	Dry.	Wet.	Difference from 8 a.m. yesterday.	Dir.	Force. (0 to 12.)			Max.	Min.		
SCANDINAVIA.																		
Haparanda ...	29.95	62	W	0	b	29.90	- .08	66	60	+ 3	SW	2	b	*	70	45	.	
Hernösand ...	29.87	57	NE	4	bc	29.92	+ .11	57	52	+ 2	NE	2	b	*	68	48	.	
Stockholm ...	29.78	56	ESE	2	r	29.82	+ .09	54	53	- 2	NNE	2	o	*	64	54	0.35	
Wisby ...	29.76	54	SSW	2	bc	29.80	+ .12	53	51	- 3	NNW	4	b	*	63	52	.	
Bodö ...	29.83	61	W	0	o	29.85	+ .05	53	51	- 11	W	0	c	1	66	50	.	
SCANDINAVIA.																		
Christiansund	29.83	51	NE	1	bc	29.76	+ .03	55	52	+ 3	E	2	b	1	55	51	.	
Skudesnaes ...	29.87	54	NW	6	bc	29.84	+ .04	54	51	+ 1	SSE	2	c	3	55	45	.	
Christiania Fjord (Fjærd)	29.75	61	NW	2	b	29.80	+ .14	59	56	+ 1	ESE	3	b	1	61	57	.	
Skagen (The Scaw)	29.78	54	W	0	b	29.81	+ .17	57	55	- 2	W	0	b	0	66	46	.	
Fanö ...	29.91	52	NW	6	c	29.93	+ .15	56	53	+ 3	W	4	c	*	59	52	0.04	
SCANDINAVIA.																		
Sumburgh Head	29.84	54	W	2	c	29.64	- .14	52	51	0	SW	6	r	3	56	49	0.01	
Stornoway ...	29.79	54	NW	6	r	29.66	- .24	53	53	- 2	W	4	r	4	58	49	0.41	
Wick ...	29.86	54	W	2	o	29.69	- .20	55	52	0	NW	3	c	1	59	50	0.01	
Nairn ...	29.87	57	W	3	o	29.73	- .14	57	55	+ 2	W	2	b	1	62	52	0.01	
Aberdeen ...	29.91	56	ESE	1	c	29.75	- .18	61	55	+ 4	SW	2	c	2	62	52	.	
SCANDINAVIA.																		
Leith ...	30.07	59	SW	2	c	29.83	- .15	58	53	+ 1	WSW	2	c	*	65	53	0.03	
Shields ...	30.02	63	W	3	c	29.88	- .11	61	56	+ 1	W	4	c	2	65	54	.	
Spurn Head ...	30.06	60	W	3	c	29.97	- .04	57	54	- 1	SW	4	bc	3	63	54	.	
York ...	30.08	60	W	3	c	29.96	- .09	59	55	+ 2	W	3	bc	*	64	53	.	
Loughborough	30.11	64	W	1	o	30.04	- .04	58	54	+ 2	WSW	2	o	*	65	52	.	
SCANDINAVIA.																		
Andrössa ...	29.98	56	SW	2	o	29.88	- .17	55	53	- 2	W	4	c	3	61	52	.	
Malin Head ...	29.93	57	SSW	5	o	29.86	- .19	55	53	0	W	4	o	3	59	51	0.02	
Mullaghmore ...	29.97	57	SSW	5	o	29.96	- .14	55	52	- 1	W	6	o	4	61	52	0.03	
Belmullet ...	29.96	57	SW	5	o	29.98	- .11	56	52	+ 2	WNW	3	bc	*	58	52	0.04	
Donaghadee ...	30.03	61	W	3	c	29.95	- .15	55	53	- 1	W	3	c	1	66	55	.	
SCANDINAVIA.																		
Liverpool (Bidston)	30.01	58	SW	3	o	29.98	- .13	56	54	0	W	5	o	3	62	54	.	
Holyhead ...	30.10	55	SW	4	c	30.01	- .13	57	55	+ 2	WSW	3	c	3	61	53	0.01	
Parsonstown ...	30.06	61	SW	1	c	30.03	- .12	56	55	- 1	SW	2	c	*	64	51	0.02	
Valencia ...	30.12	58	SSW	5	o	30.11	- .11	56	54	0	W	2	om	3	60	52	0.09	
Roche's Point...	30.15	58	SW	4	bc	30.09	- .12	56	52	- 1	NW	3	c	3	62	54	.	
SCANDINAVIA.																		
Pembroke (St. Ann's Hd.)	30.18	55	W	2	c	30.06	- .14	55	55	+ 1	WSW	4	c	4	58	53	0.04	
Scilly ...	30.21	58	WSW	3	c	30.13	- .10	56	55	- 1	WSW	4	o	3	60	53	.	
Prawle Point ...	30.21	58	W	4	bc	30.16	- .07	56	53	- 1	W	3	bc	2	63	51	.	
Jersey (St. Aubin's)	30.25	59	W	4	bm	30.19	- .06	57	52	- 1	W	3	og	3	61	51	.	
Hurst Castle ...	30.19	60	W	5	bc	30.13	- .03	57	54	- 3	WSW	4	c	2	66	52	.	
SCANDINAVIA.																		
Dungeness ...	30.13	61	WSW	3	bc	30.09	- .00	55	54	- 7	WSW	4	m	3	68	54	.	
London ...	30.14	66	SW	2	bc	30.09	- .02	57	52	- 3	W	3	o	*	68	50	.	
Oxford ...	30.15	59	SW	4	bc	30.08	- .05	59	53	0	WSW	3	c	*	69	51	.	
Cambridge ...	30.13	62	W	1	o	30.05	- .05	60	55	- 1	SW	1	c	*	66	50	.	
Yarmouth ...	30.09	60	ESE	1	bc	30.02	+ .01	57	54	- 3	W	3	bc	2	62	54	.	
SCANDINAVIA.																		
Cuxhaven ...	29.95	53	NW	5	o	29.99	+ .15	55	54	0	WNW	4	bc	*	56	53	0.20	
Berlin ...	29.89	55	SE	2	r	30.01	+ .11	52	51	- 5	WNW	3	r	*	59	50	0.20	
Wiesbaden ...	*	*	*	*	*	30.15	+ .14	60	57	0	NW	3	bc	*	68	55	0.08	
Munich ...	30.12	58	NW	2	r	30.21	+ .06	55	51	- 3	W	4	bc	*	66	52	0.98	
The Helder ...	30.08	57	WNW	2	bc	30.12	+ .12	60	57	+ 4	WSW	2	bc	2	61	55	.	
SCANDINAVIA.																		
Brussels (9 a.m.)	*	*	*	*	*	30.12	+ .07	60	56	+ 2	WSW	2	b	*	66	51	.	
Cape Gris Nez	?	61	W	3	c	?	?	54	54	- 3	WSW	5	g	5	64	54	.	
Paris ...	30.20	68	WNW	2	bc	30.20	+ .03	58	55	- 5	W	0	g	*	72	45	.	
Brest ...	30.23	59	NW	1	c	30.18	- .08	56	50	- 1	N	1	o	2	64	50	.	
Lorient ...	30.25	60	W	4	b	30.22	- .05	53	52	- 4	N	2	o	4	63	52	.	
SCANDINAVIA.																		
Rochefort ...	30.22	64	WNW	4	b	30.16	- .09	62	60	- 1	ESE	3	b	*	70	52	.	
Belfort ...	30.23	64	NW	1	b	30.19	+ .04	62	50	+ 3	NW	1	b	*	71	49	.	
Lyons ...	30.15	70	N	1	bc	30.18	- .07	61	57	+ 2	NNW	1	b	*	77	55	.	
Nice ...	30.04	66	W	4	b	30.01	- .11	64	62	- 2	W	0	m	1	75	59	.	
Perpignan ...	30.11	81	NW	3	b	30.11	- .07	75	66	- 1	W	0	b	*	87	61	.	
Biarritz ...	30.22	69	NNE	4	b	30.15	- .13	64	62	0	W	0	b	2	73	61	.	
SCANDINAVIA.																		
Corunna ...	*	*	*	*	*	30.00	- .08	63	61	- 5	E	3	o	4	88	63	.	
Lisbon ...	29.97	70	NW	4	b	30.00	- .08	63	61	- 5	E	3	o	4	88	63	.	

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

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



# WEATHER CHARTS

for 8 a.m. on

Friday, 20<sup>th</sup> June.

1890.

## BAROMETER, WIND AND SEA.

### EXPLANATION OF MAP.

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

Changes since previous morning are stated in words.

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

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

→ = forces 6 to 7; → = forces 1 to 4.

☉ = dead calm.

**SEA DISTURBANCE**—Where considerable, is shown thus:

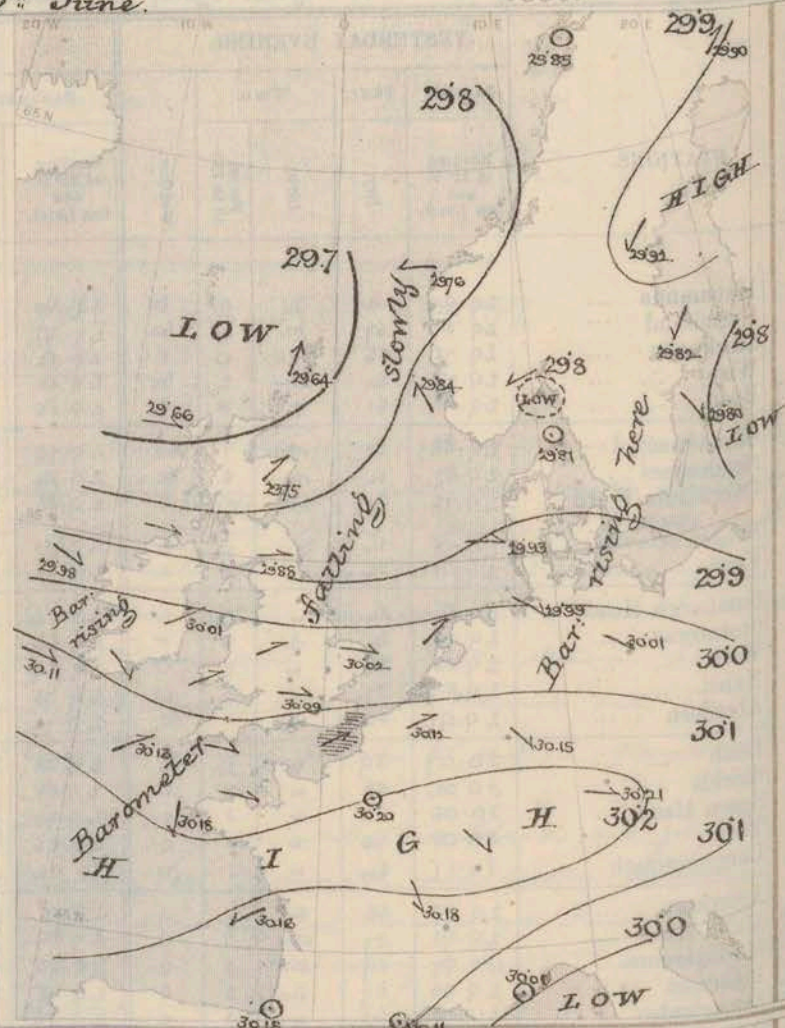
☼ = Rough. ☼ = High.

## MEAN HEIGHT OF THE BAROMETER

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

During the 15 Years: 1871—1885.

STATIONS.	MEAN READINGS.
Sumburgh Head	29.862
Stornoway	29.852
Wick	29.874
Nairn	29.880
Aberdeen	29.890
Leith	29.904
Shields	29.928
York	29.949
Loughborough	29.958
Ardrossan	29.900
Donaghadee	29.920
Holyhead	29.944
Liverpool	29.944
Parsonstown	29.962
Valencia	29.954
Roche's Point	29.952
Pembroke	29.952
Sally	29.982
Jersey	29.994
Hurst Castle	29.981
Dover	29.971
LONDON	29.976
Oxford	29.964
Cambridge	29.967
Yarmouth	29.963



## 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.

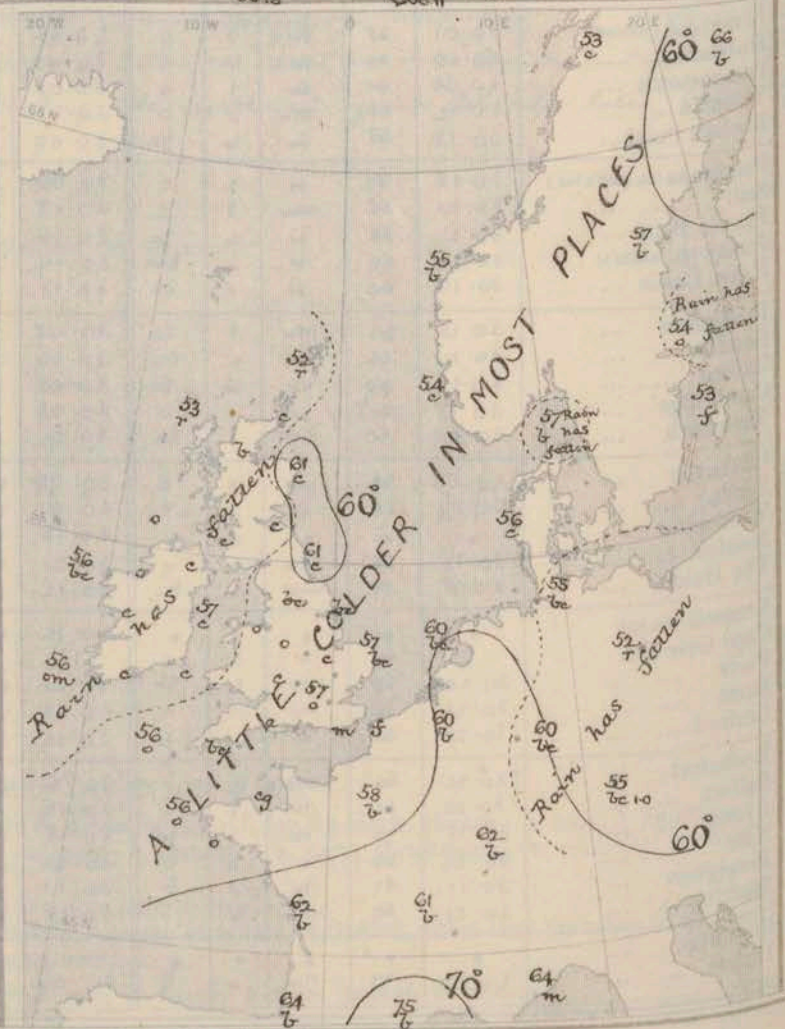
**RAINFALL**—A dotted line separates the districts in which rain has fallen from those where there has been none. Falls of 0.5 in. or more are quoted in figures.

## MEANS OF TEMPERATURE IN SHADE, AND RAINFALL.

(For the month of June.)

STATIONS.	TEMPERATURE.				RAINFALL (Inches.)
	Daily Max.	Daily Min.	at 8 a.m. Dry.	Wet.	
Sumburgh Head	54.5	45.1	50.4	48.7	2.07
Stornoway	57.0	46.0	53.3	51.0	2.99
Wick	58.8	45.7	53.1	50.4	1.75
Nairn	62.1	48.9	54.2	50.4	1.88
Aberdeen	61.3	47.5	54.7	50.9	1.88
Leith	64.5	48.1	56.0	52.5	1.84
Shields	60.9	49.1	54.0	51.9	1.82
York	66.2	48.3	50.1	52.7	2.45
Loughborough	68.7	49.0	58.1	54.1	2.43
Ardrossan	62.0	49.7	55.1	52.0	2.62
Donaghadee	60.9	48.9	55.0	52.8	2.04
Holyhead	61.7	51.6	55.6	53.1	2.10
Liverpool	63.6	50.9	56.6	52.6	1.96
Parsonstown	64.0	48.2	55.8	52.2	2.40
Valencia	61.7	50.7	56.8	55.8	3.42
Roche's Point	64.8	50.8	56.5	53.3	3.26
Pembroke	60.3	51.4	55.0	52.9	2.09
Sally	61.1	53.0	57.2	55.0	1.94
Jersey	64.8	52.6	58.7	55.9	1.83
Hurst Castle	63.9	51.9	57.6	55.4	2.07
Dover	65.3	53.1	58.6	55.1	1.72
LONDON	69.1	50.6	59.2	54.8	2.12
Oxford	67.1	49.4	56.9	53.4	2.28
Cambridge	63.8	48.5	58.0	54.7	2.49
Yarmouth	62.2	51.4	56.9	54.1	2.02

**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. to 30.2 ins and more over France, the north of Spain and the Bay of Biscay; 29.9 and more over the northern half of the Gulf of Bothnia.

Lowest 29.7 ins. and less off our northern coast, 29.8 ins. and less over the eastern parts of the Baltic, and at the mouth of the Christiania Fjord.

Gradients moderate. Barometer beginning to rise again on our S.W. coasts, falling slightly elsewhere.

## TEMPERATURE

Highest 70° at Perpignan, 66° at Haparanda, 60° at Biarritz, 61° at Aberdeen, 60° at Wiesbaden and Brussels.

Lowest 52° at Lumburgh Ht., 53° at Stormoway, 54° at Skudenes, 56° at Valencia and Seilly, 57° in London. It did not rise above 69° at any of our own stations yesterday, but exceeded 70° in several parts of France.

## WIND

Light E<sup>3</sup> in Norway, moderate W<sup>4</sup> over the North Sea and English Channel, W<sup>4</sup> and S.W.<sup>4</sup> over the British Islands.

It was N.E.<sup>4</sup> over the southwest of France, and E.<sup>4</sup> at Lisbon.

## WEATHER

Rainy in the Shetlands and Hebrides, fair as a whole over Great Britain and Ireland, clear and bright in France and on some parts of our eastern coasts. A little rain has fallen at several of our western and northern stations, 0.4 in. at Stormoway and nearly an inch at Munich.

## SEA

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

## PROBABLE CHANGES IN SYSTEM NOW PREVALENT

No important change of weather is indicated at present.

## FORECASTS

For the 24 hours ending at NOON on 21<sup>ST</sup> JUNE 1890.

### DISTRICTS.

### FORECASTS.

0 SCOTLAND NORTH

W<sup>3</sup> and S.W.<sup>3</sup> winds, fresh; some showers.

1 SCOTLAND EAST

W<sup>4</sup> breezes, moderate or fresh; slight showers, bright intervals.

2 ENGLAND N.E.

3 ENGLAND EAST

4 MIDLAND COUNTIES

5 ENGLAND SOUTH

W<sup>3</sup> breezes, moderate to fresh; possibly some slight showers, but fair as a whole.

### DISTRICTS.

### FORECASTS.

6 SCOTLAND WEST

7 ENGLAND N.W.

8 ENGLAND S.W.

9 IRELAND NORTH

10 IRELAND SOUTH

W<sup>4</sup> and N.W.<sup>4</sup> winds; some showers,

bright intervals, rather cold at night

### WARNINGS

None Issued.

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



# YESTERDAY'S 2 P.M. REPORTS.

	BAR:	THER:		WIND		WEA.	SEA		BAR:	THER:		WIND		WEA.	SEA
		D.	W.	D.	F.					D.	W.	D.	F.		
Skudesnaes ...	29.84	55	49	NW	6	bc	3	Holyhead ...	30.16	57	53	SW	4	c	4
Sumburgh Head ...	29.83	54	52	WNW	2	o	4	Valencia ...	30.17	59	56	SSW	5	cm	5
Stornoway ...	29.86	57	56	SW	4	c	4	Scilly ...	30.24	60	57	WSW	3	c	3
Aberdeen ...	29.95	57	53	SE	3	c	2	Jersey ...	30.28	61	57	WNW	4	bc	3
Shields ...	30.02	63	56	WNW	3	e	2	Dungeoess ...	30.13	67	58	NW	3	c	2
Ardrossan ...	30.02	60	54	SW	2	o	2	London ...	30.16	65	58	W	2	c	*
Malin Head ...	29.99	58	54	WSW	4	o	3	Yarmouth ...	30.09	61	56	NW	3	bc	2
Mullaghmore ...	30.04	59	54	SW	5	o	3	Rocheport ...	30.25	68	64	W	4	c	*
Belmullet ...	29.94	57	54	WSW	2	o	*								

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

Weather fair in most parts of Great Britain and fine in Ireland, the north of Scandinavia and the whole of southern Europe. Dull in the extreme north and northwest of our Islands, as well as in Germany, the Netherlands and France, with rain at Mennel, Münster and Limoges. A little rain falling later in the western and northern parts of the United Kingdom.

Temperature highest 77° at Barcelona and San Fernando, 76° at Perpignan, 73° at Trieste and Constantinople, and 72° at Madrid, Brindisi, Cagliari and Algiers. Lowest 44° at Archangel, 52° at Christiansund and Sumburgh Head, 53° at Skudesnaes, Fano, Warsaw and Cracow. Daily maxima a little above 65° in many parts of the United Kingdom, and also at some of the Scandinavian stations. Thermometer rising considerably above 80° in Spain and the extreme south of France.

Wind moderate from the SW<sup>wt</sup> in the west of Ireland, and from the W<sup>nd</sup> or NW<sup>nd</sup> over France and the remainder of our Islands, as well as in Germany and Austria. Light from the E<sup>nd</sup> in the north of Russia, and also in Algeria and the south of Spain; variable in Italy. Subsequently backing to the SW<sup>nd</sup> in all the more western parts of our Islands, and increasing to a strong breeze in the Hebrides and west of Ireland.

Barometer highest 30.2 ins. and upwards in an anticyclone lying over the Bay of Biscay, the west of France and the southwest of our Islands; high 29.9 ins. and upwards over Lapland and the north of Finland. Lowest 29.7 ins. and less in an elongated depression extending from the Scan to central Russia. New disturbance approaching our west coast later from the Atlantic, and barometer falling in all the more western and northern parts of the United Kingdom.

### EXPLANATION OF COLUMNS GIVEN ON PAGE 1.

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

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

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

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# DAILY WEATHER REPORT.

for *Saturday, 21<sup>st</sup> June, 1890.*  
*Issued by the Meteorological Office, 63, Victoria Street, London. R. H. SCOTT, Secretary.*

Issued by the Meteorological Office, 55, Victoria Street, London. R. H. SCOTT, Secretary.																		
STATIONS.		YESTERDAY EVENING.					8 A.M. TO DAY.										PAST 24 HOURS.	
		BAROM. Reading at 32° F. and Sea Level.	TEMP. Dry.	WIND.		Weather.	BAROMETER.		SHADE TEMP.			WIND.		Weather.	Sea (0 to 5.)	SHADE TEMP.		Amount of Rainfall.
				Force. (0 to 12.)	Dirac.		Reading at 32° F. and Sea Level.	Difference from 8 a.m. yesterday.	Dry.	Wet.	Difference from 8 a.m. yesterday.	Dirac.	Force. (0 to 12.)			Max.	Min.	
SCANDINAVIA.																		
Haparanda ...	29.82	63	2	0	b	29.82	- .08	63	59	- 3	SW	2	b	*	73	46	-	
Hernösand ...	29.90	56	2	0	b	29.83	- .09	62	53	+ 5	E	4	b	*	77	46	-	
Stockholm ...	29.88	56	E	2	b	29.88	+ .06	61	55	+ 7	2	0	b	*	63	52	0.39	
Wisby ...	29.84	54	WNW	2	b	29.87	+ .07	56	53	+ 3	W	4	b	*	59	45	-	
Bodö ...	29.78	?	E	1	b	29.74	- .11	70	61	+ 14	E	1	b	*	?	?	-	
Christiansund	29.76	58	N	2	r	29.77	+ .01	52	51	- 3	WSW	4	r	2	61	52	0.20	
Skudesnaes ...	29.72	54	S	2	r	29.87	+ .03	56	53	+ 2	WSW	1	0	2	61	46	0.08	
Christiania Fjord (Færd)	29.81	59	WSW	5	b	29.79	- .01	59	56	0	SSW	5	c	3	63	57	-	
Skagen (The Scaw)	29.86	55	NW	1	c	29.84	+ .03	57	55	0	SW	1	0	1	64	52	-	
Fanö ...	29.93	54	WSW	1	0	29.95	+ .02	60	56	+ 4	W	4	b	*	61	54	-	
Sumburgh Head	29.64	54	WSW	3	b	29.77	+ .13	51	49	- 1	WSW	2	c	4	57	47	0.06	
Stornoway ...	29.76	53	W	5	b	29.83	+ .17	55	54	+ 2	W	4	b	4	58	47	0.32	
Wick ...	29.78	57	WNW	5	0	29.83	+ .16	56	51	+ 1	WNW	2	b	1	63	45	-	
Nairn ...	29.80	60	W	4	c	29.87	+ .14	56	53	- 1	W	2	b	1	62	46	0.03	
Aberdeen ...	29.84	63	WNW	4	b	29.91	+ .16	58	50	- 3	WSW	3	b	1	66	49	-	
Leith ...	29.91	60	SW	5	c	29.94	+ .11	58	52	0	SW	2	b	*	63	50	-	
Shields ...	29.93	59	W	3	b	30.01	+ .13	59	52	- 2	WSW	3	c	2	65	50	-	
Spurn Head ...	29.97	61	W	4	b	30.07	+ .10	58	54	+ 1	W	3	c	3	64	53	-	
York ...	29.98	63	W	4	b	30.07	+ .11	55	53	- 4	W	1	c	*	67	48	0.02	
Loughborough	30.03	63	WNW	3	b	30.11	+ .07	58	53	0	WNW	1	cm	*	70	48	-	
BRITISH ISLANDS.																		
Ardrossan ...	29.94	58	W	4	b	29.98	+ .10	54	52	- 1	SW	3	0	3	62	52	0.02	
Malin Head ...	29.94	56	WSW	5	cp	29.97	+ .11	51	49	- 4	W	4	op	3	60	50	0.14	
Mullaghmore ...	30.04	57	WSW	6	c	30.01	+ .05	56	53	0	SW	4	0	2	59	50	0.05	
Belmullet ...	30.05	57	W	4	0	30.01	+ .03	55	53	- 1	W	3	0	*	59	52	0.08	
Donaghadee ...	30.00	65	W	3	b	30.04	+ .09	57	54	+ 2	W	3	c	1	65	53	-	
Liverpool (Bidston)	30.03	61	W	4	b	30.09	+ .11	57	53	+ 1	WSW	2	c	2	63	52	-	
Holyhead ...	30.05	57	SW	3	c	30.09	+ .08	56	53	- 1	SW	2	cg	2	65	51	-	
Parsonstown ...	30.07	60	W	0	c	30.07	+ .04	56	55	0	SW	1	og	*	64	52	-	
Valencia ...	30.16	58	W	3	om	30.14	+ .03	56	54	0	WSW	3	om	3	62	52	-	
Roche's Point...	30.11	60	WNW	3	b	30.13	+ .04	57	53	+ 1	WNW	3	c	3	66	52	-	
Pembroke (St. Ann's Hd.)	30.11	56	WNW	3	b	30.13	+ .07	55	54	0	W	1	c	2	59	52	-	
Scilly ...	30.12	58	NW	3	b	30.16	+ .03	57	56	+ 1	WNW	3	b	3	60	54	-	
Prawle Point ...	30.12	56	W	3	b	30.16	- .00	60	58	+ 4	NW	2	b	1	60	48	-	
Jersey (St. Aubin's)	30.16	59	SSE	3	b	30.17	- .02	59	55	+ 2	NW	3	ogm	4	62	54	-	
Hurst Castle ...	30.10	61	WSW	4	b	30.14	+ .01	58	55	+ 1	NW	1	c	1	61	50	-	
Dungeness ...	30.05	59	WSW	5	c	30.10	+ .01	57	54	+ 2	W	0	c	0	62	48	-	
London ...	30.04	66	W	2	b	30.11	+ .02	61	54	+ 4	NNE	1	c	*	68	50	-	
Oxford ...	30.07	61	NW	1	0	30.13	+ .05	56	53	- 3	W	0	0	*	69	48	-	
Cambridge ...	30.01	67	W	1	b	30.10	+ .05	62	56	+ 2	SSW	1	c	*	71	47	-	
Yarmouth ...	29.98	66	W	2	b	30.09	+ .07	60	56	+ 3	N	1	b	2	68	50	-	
GERMANY & HOLLAND.																		
Cuxhaven ...	29.99	59	W	1	b	29.99	- .00	59	58	+ 4	W	2	m	*	65	?	-	
Berlin ...	30.03	57	W	3	0	30.01	- .00	59	56	+ 7	W	3	0	*	61	?	0.12	
Wiesbaden ...	*	*	*	*	*	30.08	- .07	62	57	+ 2	NW	2	c	*	73	55	-	
Munich ...	30.19	58	NE	1	b	30.15	- .06	63	57	+ 5	SW	1	b	*	66	46	-	
The Helder ...	30.02	58	WSW	2	b	30.05	- .07	58	55	- 2	WNW	1	b	1	61	57	-	
FRANCE AND BELGIUM.																		
Brussels (8 a.m.)	*	*	*	*	*	30.10	- .02	54	53	- 6	WSW	1	0	*	70	48	-	
Cape Gris Nez	?	57	WSW	5	b	?	?	58	55	+ 1	W	2	m	2	59	52	-	
Paris ...	30.09	72	W	2	b	30.14	- .06	59	54	+ 1	NW	2	b	*	76	46	-	
Brest ...	30.16	61	N	1	c	30.19	+ .01	57	53	+ 1	N	1	0	2	63	50	-	
Lorient ...	30.16	61	WNW	2	c	30.17	- .05	55	54	+ 2	WNW	2	0	2	63	52	-	
Rochefort ...	?	67	NW	4	b	?	?	63	61	+ 1	ENE	3	b	*	72	54	-	
Belfort ...	30.13	65	W	1	b	30.07	- .12	64	53	+ 2	W	1	c	*	75	52	-	
Lyons ...	30.06	74	WNW	1	b	30.13	- .05	65	59	+ 4	SSE	1	b	*	77	55	-	
Nice ...	30.05	70	W	2	b	30.11	+ .10	69	64	+ 5	NE	3	b	0	77	61	-	
Perpignan ...	30.03	81	S	2	b	30.12	+ .01	71	65	- 4	W	0	b	*	86	59	-	
Biarritz ...	30.09	69	W	3	b	30.15	- .00	64	63	0	S	1	0	2	77	63	-	
PENINSULA.																		
Corunna ...	*	*	*	*	*	30.05	+ .05	67	62	+ 4	N	4	b	?	73	61	-	
Lisbon ...	30.01	69	WNW	4	c	30.05	+ .05	67	62	+ 4	N	4	b	?	73	61	-	





## 1890.

EXPLANATION OF MAP.

Changes since previous morning are stated in words.

$\Rightarrow =$  forces above 10;  $\Rightarrow =$  forces 8 to 10;

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

 = Rough.  = High.

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

*During the 15 Years: 1871—1885.*

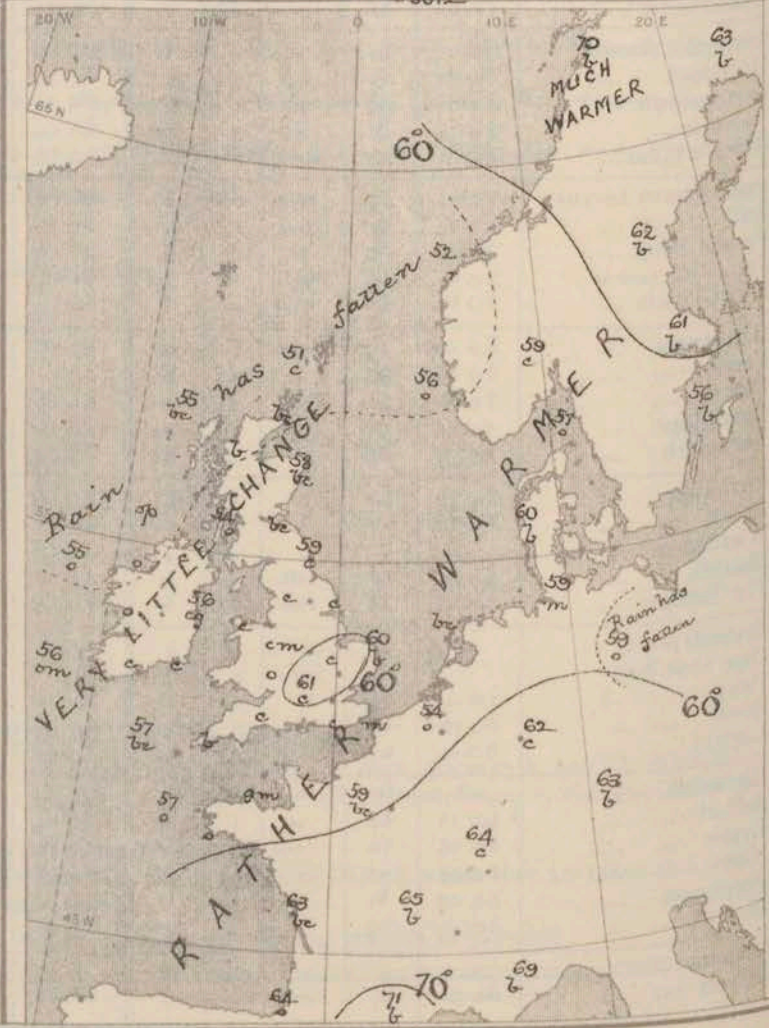
TEMPERATURE—Isotherms are drawn for each 10°. Changes since previous morning are stated in words.

WEATHER is shown by Letters of the Beaufort Scale.

*RAINFALL*.—A dotted line separates the districts in which rain has fallen from those where there has been none. Falls of 0·5 in. or more are quoted in figures.

STATIONS.	TEMPERATURE.				RAINFALL. (Inches.)	
	Daily Max.	Daily Min.	at 8 a.m.			
			Dry.	Wet.		
Sumburgh Head.....	51·5	45·1	50·4	48·7	2·07	
Stornoway .....	57·6	46·0	53·3	51·0	2·99	
Wick.....	58·8	45·7	53·1	50·4	1·75	
Nairn .....	62·1	48·0	54·2	50·4	1·88	
Aberdeen .....	61·3	47·5	54·7	50·9	1·88	
Leith.....	64·5	48·1	56·0	52·5	1·84	
Shields.....	60·9	49·1	54·9	51·9	1·82	
York .....	66·2	48·3	56·1	52·7	2·45	
Loughborough .....	68·7	49·0	58·1	54·1	2·43	
Ardrossan .....	62·0	49·7	55·1	52·0	2·62	
Donaghadee.....	60·9	48·9	55·0	52·8	2·04	
Holyhead.....	61·7	51·6	56·6	53·1	2·10	
Liverpool .....	63·6	50·9	56·6	52·6	1·96	
*Parsonstown .....	64·0	48·2	55·8	52·2	2·46	
Valencia .....	61·7	50·7	56·8	53·8	3·42	
Roche's Point .....	64·8	50·8	56·5	53·3	3·26	
Pembroke.....	60·3	51·4	55·0	52·9	2·09	
Sally .....	61·1	53·0	57·2	55·0	1·94	
Jersey .....	64·8	52·6	58·7	55·9	1·83	
Hurst Castle.....	63·9	51·9	57·6	55·4	2·07	
Dover .....	63·3	53·1	58·6	55·1	1·72	
LONDON .....	69·3	50·6	59·2	54·8	2·12	
Oxford .....	67·1	49·4	56·9	53·4	2·28	
Cambridge .....	68·8	48·5	58·0	54·7	2·41	
Yarmouth .....	62·2	51·4	56·9	54·1	2·02	

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





## GENERAL SITUATION AT 8 A.M.

### PRESSURE

Highest 30.0 ins. to nearly 30.2 ins. in a large anticyclone covering Spain, France, Ireland, England and the Netherlands.

Lowest 29.8 ins. and less to the northward of Scotland and the westward of Norway.

Gradients slight; Barometer rising very slowly.

### TEMPERATURE

Highest 71° at Perpignan, 70° at Bado, 69° at Nice, 67° at Lisbon, 63° at Rochefort & Havre, 61° in London.

Lowest 51° at Lumburg Head and Melin Head, 52° at Christiansund, 54° at Ardrossan.

It rose to 71° at Cambridge, and 70° at Loughborough yesterday, but did not exceed 67° in London.

### WIND

Light to moderate from the W<sup>nd</sup> over all the western and northern parts of our Islands, light

from NW in the south, and from between NW. and NE. over France; at Lisbon it was N<sup>ly</sup>.

### WEATHER

Dull in the west of Norway, with rain at Christiansund; fair generally elsewhere, but hazy in some <sup>localities</sup>.

The rainfall in the NW. and N. yesterday was slight except at Stornoway, where 0.32 ins. fell.

### SEA

Moderate on our extreme northern coasts, and at Jersey; slight or smooth elsewhere.

### PROBABLE CHANGES IN SYSTEM NOW PREVALENT

Fine weather seems likely to prevail in most places, with high temperatures over Ireland, England, and the east of Scotland.

## FORECASTS

For the 24 hours ending at NOON on 22<sup>nd</sup> JUNE. 1890.

### DISTRICTS.

### FORECASTS.

0	SCOTLAND NORTH	} W <sup>ly</sup> and SW <sup>ly</sup> breezes, moderate, a few showers.
1	SCOTLAND EAST	
2	ENGLAND N.E.	
3	ENGLAND EAST	} W <sup>ly</sup> breezes, light; fine, warmer.
4	MIDLAND COUNTIES	
5	ENGLAND SOUTH	} Variable airs and calms; fair, hazy, warm.

### DISTRICTS.

### FORECASTS.

6	SCOTLAND WEST	} Same as N° 0.
7	ENGLAND N.W.	
8	ENGLAND S.W.	} Same as N° 3. to 5.
9	IRELAND NORTH	
10	IRELAND SOUTH	} SW <sup>ly</sup> and W <sup>ly</sup> breezes; some showers in the west, fine in the east.
	WARNINGS	None Issued.

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

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



# YESTERDAY'S 2 P.M. REPORTS.

	BAR:	THER:		WIND		WEA.	SEA		BAR:	THER:		WIND		WEA.	SEA
		D.	W.	D.	F.					D.	W.	D.	F.		
Skudesnaes ...	29.82	55	53	S	6	O	3		Holyhead ...	30.05	61	SW	3	C	2
Sumburgh Head ...	29.66	55	52	NSW	3	C	3		Valencia ...	30.15	62	SW	3	C	3
Stornoway ...	29.72	57	54	W	5	bc	4		Scilly ...	30.13	60	SW	4	C	3
Aberdeen ...	29.78	65	54	WSW	2	C	1		Jersey ...	30.18	60	SW	3	C	3
Shields ...	29.90	64	56	W	4	bc	2		Dungeness ...	30.05	61	WSW	6	bc	5
Ardrossan ...	29.90	61	56	W	5	b	3		London ...	30.06	68	WSW	2	C	*
Mulin Head ...	29.93	57	53	WSW	4	O	3		Yarmouth ...	30.01	65	W	2	bc	2
Mullaghmore ...	30.02	59	54	W	6	C	4		Rochefort ...	30.12	72	NW	3	C	?
Belmullet ...	30.05	59	54	W	4	bc	*								

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

Weather fine and bright over the greater part of Scandinavia and Finland, as well as in France, Spain, Algeria and the south of Italy. Fair in our Islands and many other parts of Europe, but dull in Germany, Austria and the north of Italy, with rain at Riga, Breslau, Lemberg and Pesaro, as well as in the Shetlands and Hebrides. Showers falling during day in the extreme northwest of our Islands, but sky clearing in other districts.

Temperature highest 77° at Barcelona, 75° at Perpignan and Constantinople, 74° at Madrid, and 73° at La Halle, above 65° over southern Europe generally, and also in some parts of Lapland. Lowest 40° at Archangel, 52° at St Petersburg, Riga, Berlin and Sumburgh Head, and 53° at Bodo, Whist, Breslau, Lemberg and Stornoway. Subsequently rising to between 65° and 70° in many parts of Great Britain and to 75° or more in France, the highest reading being 86° at Perpignan.

Wind light or moderate from the W<sup>nd</sup> over our Islands, Denmark, Germany and the south of France, and from the NW<sup>nd</sup> in Austria and the south of Russia. Light from the E<sup>nd</sup> or NE<sup>nd</sup> in Scandinavia and Finland, and also in Spain and the west and south of France, variable in Italy and Algeria. W<sup>ly</sup> breezes setting in later at most of the French stations.

Barometer highest 30.2 ins. and upwards in an elongated anticyclone extending eastwards from the Atlantic across the Bay of Biscay and France to South Germany; 29.9 ins. and upwards in Ireland and the north of Sweden. Lowest 29.7 ins. and less in a depression lying off the north of Scotland, and also in a large area lying over Central Russia; 29.8 ins. and less in small shallow disturbances lying in the neighbourhood of the south of Sweden. Depression in north subsequently moving eastwards, and barometer rising in most parts of the United Kingdom.

### EXPLANATION OF COLUMNS GIVEN ON PAGE 1.

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

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	BAROM.	TEMP.	WIND.		Weather.	BAROMETER.		SHADE TEMP.			WIND.		Weather.	Sea. (0 to 9.)	SHADE TEMP.		Amount of Rainfall.		
	Reading at 32° F. and Sea Level.	Dry.	Dirce.	Force. (0 to 12.)		Reading at 32° F. and Sea Level.	Difference from 8 a.m. yesterday.	Dry.	Wet.	Difference from 8 a.m. yesterday.	Dirce.	Force. (0 to 12.)			Max.	Min.			
SCANDINAVIA.	Haparanda ...	29.68	61	SE	4	bc	29.71	— .11	54	?	— 0	SE	2	o	*	73	50	—	
	Hernösand ...	29.73	57	SE	1	c	29.74	— .09	61	?	— 1	SSW	2	bc	*	70	43	—	
	Stockholm ...	29.85	58	SW	2	c	29.80	— .08	62	?	+ 1	SSW	1	bc	*	72	50	—	
	Wisby ...	29.84	58	SSW	2	c	29.85	— .02	57	?	+ 1	W	4	bc	*	68	48	—	
	Bodö ...	29.80	53	SW	2	bc	29.84	+ .10	53	50	— 17	WSW	1	o	1	70	50	—	
	Christiansund	29.87	53	W	2	bc	29.89	+ .12	53	49	+ 1	WSW	3	o	3	54	50	0.28	
	Skudesnaes ...	29.95	54	NNW	2	r	29.96	+ .09	54	50	— 2	SSE	2	c	2	61	45	—	
	Christiania Fjord (Færd)	29.76	58	NNW	4	b	29.85	+ .06	56	49	— 3	WNW	3	b	2	59	54	—	
	Skagen (The Scaw)	29.86	55	W	4	b	29.88	+ .04	57	52	0	WNW	4	b	4	63	52	—	
	Faßö ...	30.02	52	NW	4	b	30.02	+ .07	60	55	0	W	4	b	*	63	50	—	
BRITISH ISLANDS.	Sumburgh Head	29.86	55	W	2	b	29.84	+ .07	54	51	+ 3	NE	1	b	2	56	47	0.02	
	Stornoway ...	29.87	57	W	4	bc	29.90	+ .07	55	53	0	W	2	b	3	58	49	0.04	
	Wick ...	29.90	55	W	0	c	29.85	— .05	55	55	— 1	NW	3	r	1	60	40	0.30	
	Nairn ...	29.90	57	W	0	bc	29.87	— .03	59	55	+ 3	WSW	3	b	1	65	50	0.04	
	Aberdeen ...	29.97	55	ENE	2	c	29.89	— .02	63	56	+ 5	W	1	bc	1	65	48	0.04	
	Leith ...	29.95	60	SW	3	c	29.95	+ .01	61	54	+ 3	SW	3	bc	*	65	41	0.07	
	Shields ...	30.01	60	SW	3	c	29.99	— .02	57	55	— 2	W	3	o	2	63	53	0.02	
	Spurn Head ...	30.07	59	WSW	2	o	30.07	— .00	58	55	0	SW	3	o	3	62	52	—	
	York ...	30.07	60	W	2	c	30.05	— .02	61	57	+ 6	W	3	c	*	64	48	—	
	Loughborough	30.11	58	SE	1	r	30.11	— .00	57	55	— 1	WSW	2	c	*	67	49	0.06	
GERMANY & HOLLAND.	Ardrossan ...	30.00	56	SSW	2	r	30.00	+ .02	55	53	+ 1	WSW	2	o	1	62	52	0.02	
	Malin Head ...	29.93	54	S	3	o	30.00	+ .03	55	54	+ 4	WSW	3	o	2	58	51	0.18	
	Mullaghmore ...	29.99	56	SW	5	r	30.06	+ .05	56	54	+ 1	WSW	5	om	4	58	54	0.10	
	Belmullet ...	30.01	56	W	2	o	30.07	+ .06	56	55	+ 1	WSW	2	o	*	56	54	0.14	
	Donaghadee ...	30.01	59	SW	2	o	30.05	+ .01	58	56	+ 1	WNW	2	m	0	62	55	0.14	
	Liverpool (Bidston)	30.10	60	W	1	c	30.09	— .00	57	55	0	W	4	o	3	61	54	0.02	
	Holyhead ...	30.09	56	SW	3	c	30.10	+ .01	58	55	+ 2	WSW	3	c	2	61	53	0.01	
	Parsonstown ...	30.08	55	SW	2	r	30.11	+ .04	57	56	+ 1	SW	2	o	*	58	53	0.07	
	Valencia ...	30.15	56	WSW	3	o	30.21	+ .04	57	56	+ 1	WSW	3	om	3	61	55	0.03	
	Roche's Point...	30.14	56	WSW	3	o	30.18	+ .05	60	57	+ 3	W	2	c	3	64	54	0.15	
FRANCE AND BELGIUM.	Pembroke (St. Ann's Hd.)	30.15	56	WSW	3	bc	30.16	+ .03	56	56	+ 1	WSW	3	opg	3	60	54	0.11	
	Scilly ...	30.20	58	WNW	4	bc	30.22	+ .06	58	58	+ 1	SW	4	m	3	60	56	—	
	Prawle Point...	30.17	57	WNW	3	c	?	?	55	55	— 5	WNW	4	og	2	61	51	—	
	Jersey (St. Aubin's)	30.20	58	W	3	c	30.28	+ .11	60	56	+ 1	W	4	ogm	3	62	53	—	
	Hurst Castle ...	30.13	62	W	3	c	30.21	+ .07	56	55	— 2	WNW	2	or	1	65	52	—	
	Dungeness ...	30.10	58	W	3	c	30.15	+ .05	60	56	+ 3	WSW	3	c	1	64	52	—	
	London ...	30.09	66	SW	2	o	30.16	+ .05	56	54	— 5	WSW	2	o	*	69	50	0.20	
	Oxford ...	30.13	56	NW	2	r	30.15	+ .02	56	53	0	WSW	1	og	*	70	50	0.01	
	Cambridge ...	30.13	60	W	0	r	30.12	+ .02	59	56	— 3	SW	1	o	*	71	49	0.01	
	Yarmouth ...	30.09	59	W	1	c	30.09	— .00	61	56	+ 1	W	3	b	2	62	53	0.02	
PENINSULA.	Cuxhaven ...	29.96	58	WSW	3	c	29.96	— .03	59	57	0	WNW	3	c	*	64	57	—	
	Berlin ...	30.04	60	NW	2	r	30.07	+ .06	59	52	0	NW	3	c	*	70	55	0.04	
	Wiesbaden ...	*	*	*	*	*	30.05	— .00	61	59	— 1	NW	1	o	*	75	57	—	
	Munich ...	30.11	66	W	0	c	30.16	+ .01	59	58	— 4	W	4	c	*	75	54	0.39	
	The Helder ...	30.11	58	NW	1	bc	30.10	+ .04	57	54	— 1	WSW	1	c	1	63	55	—	
	Brussels (9 a.m.)	*	*	*	*	*	30.14	+ .04	62	57	+ 8	W	1	b	*	66	52	—	
	Cape Gris Nez	?	56	W	3	m	?	?	57	55	+ 2	W	3	bc	3	63	54	—	
	Paris ...	30.14	66	NNW	2	o	30.21	+ .07	60	55	+ 1	NW	2	b	*	70	50	—	
	Brest ...	30.20	62	N	1	o	30.26	+ .07	58	55	+ 1	N	1	o	2	64	48	—	
	Lorient ...	30.17	64	NW	3	bc	30.30	+ .13	54	53	— 1	N	2	bc	2	64	52	—	
PENINSULA.	Rochefort ...	30.18	67	WNW	4	b	30.29	?	60	57	— 3	NE	4	c	2	73	50	—	
	Belfort ...	30.06	77	NNW	4	c	30.17	+ .04	65	62	0	WNW	1	c	*	84	58	0.55	
	Lyons ...	30.09	68	SW	4	bc	30.10	— .01	66	62	— 3	NE	2	b	1	81	63	—	
	Nice ...	30.11	71	E	1	o	30.15	+ .03	76	67	+ 5	SW	2	c	*	80	62	—	
	Perpignan ...	30.17	67	NW	4	bc	30.27	+ .12	64	61	0	NNE	3	o	2	77	63	—	
	Biarritz ...	30.17	67	NW	4	bc	30.27	+ .12	64	61	0	NNE	3	o	2	77	63	—	
PENINSULA.	Corunna ...	*	*	*	*	*	30.24	+ .14	64	61	0	NNE	6	c	6	68	57	—	
	Lisbon ...	30.06	63	NW	5	b	30.13	+ .08	65	62	— 2	NNE	3	b	?	79	59	—	

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

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



# WEATHER CHARTS

for 8 a.m. on

Sunday, 22<sup>nd</sup> June,

1890.

## BAROMETER, WIND AND SEA.

### EXPLANATION OF MAP.

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

Changes since previous morning are stated in words.

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

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

⊙ = dead calm.

**SEA DISTURBANCE**—Where considerable, is shown thus:

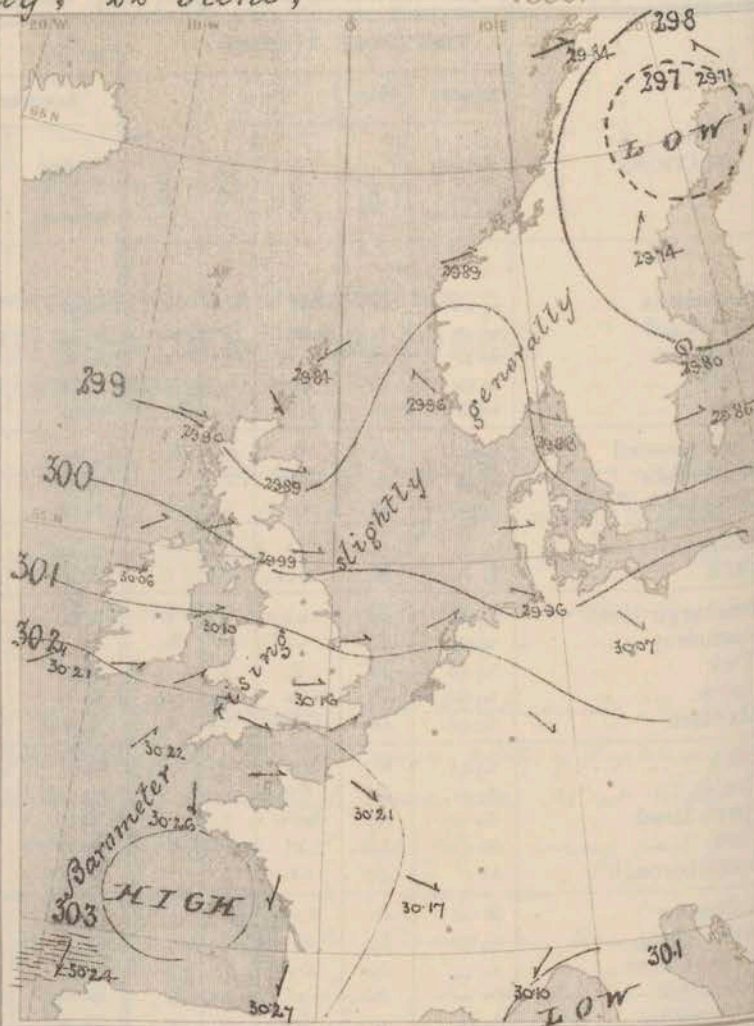
▨ = Rough. ▨ = High.

## MEAN HEIGHT OF THE BAROMETER

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

During the 15 Years: 1871—1885.

STATIONS.	MEAN READINGS.
Sumburgh Head .....	29.862
Stornoway .....	29.852
Wick .....	29.874
Nairn .....	29.880
Aberdeen .....	29.890
Leith .....	29.904
Shields .....	29.928
York .....	29.949
Loughborough .....	29.958
Ardrossan .....	29.909
Donaghadee .....	29.920
Holyhead .....	29.944
Liverpool .....	29.944
Parsonstown .....	29.952
Valencia .....	29.954
Roche's Point .....	29.952
Pembroke .....	29.952
Sally .....	29.982
Jersey .....	29.904
Hurst Castle .....	29.981
Dover .....	29.971
LONDON .....	29.976
Oxford .....	29.964
Cambridge .....	29.967
Yarmouth .....	29.968



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

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

**WEATHER** is shown by Letters of the Beaufort Scale.

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

## MEANS OF TEMPERATURE IN SHADE, AND RAINFALL.

(For the month of June.)

STATIONS.	TEMPERATURE.				RAINFALL (Inches.)
	Daily Max.	Daily Min.	Dry.	Wet.	
Sumburgh Head .....	54.5	45.1	50.4	48.7	2.07
Stornoway .....	57.0	46.0	53.3	51.0	2.99
Wick .....	58.8	45.7	53.1	50.4	1.75
Nairn .....	62.1	48.0	54.2	50.4	1.88
Aberdeen .....	61.3	47.5	54.7	50.9	1.88
Leith .....	64.5	48.1	56.0	52.5	1.84
Shields .....	60.9	49.1	54.9	51.9	1.82
York .....	60.2	48.5	55.1	52.7	2.45
Loughborough .....	68.7	49.0	58.1	54.1	2.43
Ardrossan .....	62.0	49.7	55.1	52.0	2.62
Donaghadee .....	60.9	48.9	55.0	52.8	2.04
Holyhead .....	61.7	51.0	55.8	53.1	2.10
Liverpool .....	63.6	50.9	56.6	52.6	1.96
Parsonstown .....	64.0	48.2	55.8	52.2	2.40
Valencia .....	61.7	50.7	56.8	53.8	3.42
Roche's Point .....	64.8	50.8	56.5	53.3	3.26
Pembroke .....	60.3	51.4	55.0	52.9	2.09
Sally .....	61.1	53.0	57.2	55.0	1.94
Jersey .....	64.8	52.6	58.7	55.9	1.83
Hurst Castle .....	63.9	51.9	57.6	55.4	2.07
Dover .....	63.3	53.1	58.6	55.1	1.72
LONDON .....	69.3	50.6	59.2	54.8	2.12
Oxford .....	67.1	49.4	56.9	53.4	2.28
Cambridge .....	68.8	48.5	58.0	54.7	2.49
Yarmouth .....	62.2	51.4	56.9	54.1	2.02

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





# GENERAL SITUATION AT 8 A.M.

## PRESSURE

Highest, 30.30 in. at Lorient; 30.2 in. and upwards, over the Bay of Biscay, the greater part of France, the north of Spain, and the extreme south and southwest of our Islands.

Lowest, 29.8 in. and less, in a large shallow depression lying over Sweden.

Gradients slight. Barometer falling slightly in the north and east of Great Britain, but rising elsewhere.

## TEMPERATURE

Highest, 76° at Perpignan, 66° at Nice, 65° at Lyons and Reims, and 64° at Birmmgham and Corunna.

Lowest, 52° at Le Mans, 53° at Bodo and Christiansund, 54° at Haparanda and Stadenæs, and 55° at Stornoway, Wick, Mullagh, and Ardara.

The highest maxima registered over our Islands yesterday was 71° at Camlidge, and 70° at Belfast.

## WIND

Light to moderate from the W<sup>nd</sup> or SW<sup>nd</sup> over the greater part of the United Kingdom, as well as in Norway and Denmark, but NE<sup>ly</sup> in the Shetlands and NW<sup>ly</sup> at Wick.

Chiefly N<sup>ly</sup> in France and NE<sup>ly</sup> over the Iberian Peninsula; variable in Sweden.

## WEATHER

Built over the greater part of Ireland and England, with mist and slight rain at some of our southern stations.

Fine in most other localities, but heavy rain reported at Wick.

Since yesterday morning rain has fallen at all but our extreme southern stations, and a thunderstorm has occurred at Lyons.

## SEA

Slight or smooth generally, but rough at Corunna.

## PROBABLE CHANGES IN SYSTEM NOW PREVALENT

## FORECASTS

For the 24 hours ending at NOON on 23<sup>rd</sup> June 1890.

### DISTRICTS.

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

### FORECASTS.

NONE ISSUED.

### DISTRICTS.

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

### FORECASTS.

NONE ISSUED.

### WARNINGS

NONE ISSUED.

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

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



# YESTERDAY'S 2 P.M. REPORTS.

	BAR:	THER:		WIND		WEA.	SEA		BAR:	D.	W.	THER:		WIND		WEA.	SEA
		D.	W.	D.	F.							D.	W.	D.	F.		
Skudesnaes ...	29.91	61	55	W	4	c	3		Holyhead ...	30.11	56	53	SW	3	rs	2	
Sumburgh Head ...	29.82	56	52	W	2	b	4		Valencia ...	30.16	59	56	SW	4	om	4	
Stornoway ...	29.87	57	54	W	4	bc	4		Scilly ...	30.17	60	57	WNW	3	bc	2	
Aberdeen ...	29.92	59	54	ENE	1	bc	1		Jersey ...	30.19	61	56	WNW	3	c	3	
Shields ...	30.01	63	55	WSW	3	c	2		Dungeness ...	30.11	58	55	WSW	3	f	1	
Ardrossan ...	29.99	57	55	SW	2	o	2		London ...	30.10	66	55	2	o	o	*	
Malin Head ...	29.96	56	54	WSW	4	o	3		Yarmouth ...	30.10	60	56	ENE	2	c	2	
Mullaghmore ...	30.01	57	56	WSW	5	o	3		Rocheport ...	29.94	72	68	WNW	3	bc	2	
Belmullet ...	30.00	56	55	WSW	4	o	*										

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

Continental Information will appear in Tuesday's report.

### EXPLANATION OF COLUMNS GIVEN ON PAGE 1.

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

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

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

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



# DAILY WEATHER REPORT.

for *Monday, 23<sup>rd</sup> June, 1890.*  
*Issued by the Meteorological Office, 63, Victoria Street, London. R. H. SCOTT, Secretary.*

STATIONS.		YESTERDAY EVENING.					8 A.M. TO DAY.										PAST 24 HOURS.		
		BAROM.  Reading at 32° F. and Sea Level.	TEMP.  Dry.	WIND.		Weather.	BAROMETER.		SHADE TEMP.			WIND.		Weather.	Sea. (0 to 1.)	SHADE TEMP.		Amount of Rainfall.	
				Dir.	Force. (0 to 12.)		Reading at 32° F. and Sea Level.	Difference from 8 a.m. yesterday.	Dry.	Wet.	Difference from 8 a.m. yesterday.	Dir.	Force. (0 to 12.)			Max.	Min.		
SCANDINAVIA.	Haparanda ...	29.78	57	Z	0	0	29.88	+ .17	61	59	+ 7	S.	2	bc	*	64	56	-	
	Hernösand ...	29.77	56	Z	0	0	29.88	+ .14	59	55	- 2	NE	6	c	*	68	48	-	
	Stockholm ...	29.83	61	W	2	0	29.89	+ .09	60	52	- 2	W	2	b	*	70	52	-	
	Wisby ...	29.88	58	WSW	2	0	29.88	+ .03	58	55	+ 1	N	4	b	*	66	50	-	
	Bodö ...	29.88	53	Z	0	0	29.96	+ .12	52	49	- 1	Z.	0	bc	*	54	50	-	
	Christiansund	29.95	54	NW	2	bc	30.01	+ .12	56	52	+ 3	ESE	2	bc	3	9	52	-	
	Skudesnaes ...	29.91	56	NNW	1	bc	30.01	+ .05	58	52	+ 4	NNW	5	b	2	?	45	-	
	Christiania Fjord (Færder)	29.84	59	SW	3	b	29.94	+ .12	55	49	- 1	NNE	3	b	2	61	54	-	
	Skagen (The Seaw)	29.89	60	Z	0	b	29.95	+ .07	57	54	0	Z	0	b	0	63	48	-	
	Fanö ...	29.94	55	WSW	4	c	29.93	- .09	59	55	- 1	NW	4	bc	*	63	52	0.12	
BRITISH ISLANDS.	Sumburgh Head	29.96	51	NNW	1	c	30.00	+ .16	52	50	- 2	SW	1	c	1	55	43	0.47	
	Stornoway ...	29.98	57	W	2	bc	29.92	+ .02	55	55	0	SW	3	0	3	61	45	0.02	
	Wick ...	30.00	54	NW	2	b	29.98	+ .13	52	?	- 3	S	4	0	1	59	40	?	
	Nairn ...	29.98	63	W	2	bc	30.00	+ .13	54	53	- 5	Z	0	c	1	63	39	0.08	
	Aberdeen ...	30.00	59	N	3	b	30.06	+ .17	54	49	- 9	SSW	3	op	0	66	42	-	
	Leith ...	30.00	59	W	3	bc	30.08	+ .13	53	52	- 8	E	1	omdp	*	67	50	0.03	
	Shields ...	30.01	65	W	3	c	30.12	+ .13	54	53	- 3	Z	0	0	2	67	49	-	
	Spurn Head ...	30.04	62	W	3	c	30.14	+ .07	59	56	+ 1	NE	1	c	2	62	53	-	
	York ...	30.07	63	W	2	bc	30.14	+ .09	60	54	- 1	S	1	0	*	65	51	-	
	Loughborough	30.12	60	W	2	r	30.16	+ .05	62	60	+ 5	WNW	2	om	*	69	56	0.01	
GERMANY & HOLLAND.	Ardrossan ...	30.04	57	SW	2	0	30.09	+ .09	57	56	+ 2	W	2	0	1	60	54	-	
	Malin Head ...	30.03	56	W	1	om	30.07	+ .07	57	57	+ 2	WSW	3	od	2	59	54	0.04	
	Mullaghmore ...	30.06	54	SW	4	d	30.14	+ .08	58	57	+ 2	SW	4	om	2	58	54	0.30	
	Belmullet ...	30.08	57	W	2	0	30.15	+ .08	56	56	0	WSW	3	0	*	57	55	0.10	
	Donaghadee ...	30.06	63	WSW	2	0	30.14	+ .09	60	59	+ 2	W	2	0	0	65	56	0.01	
	Liverpool (Bidston)	30.12	62	W	2	0	30.16	+ .07	57	57	0	W	3	0	3	63	56	0.14	
	Holyhead ...	30.11	57	SW	3	ogm	30.18	+ .08	59	58	+ 1	WNW	1	og	2	63	55	0.13	
	Parsonstown ...	30.12	60	SW	2	0	30.20	+ .09	59	57	+ 2	Z	0	0	*	60	56	0.04	
	Valencia ...	30.25	59	W	3	od	30.30	+ .09	58	57	+ 1	WSW	2	om	3	61	54	0.16	
	Roche's Point...	30.18	63	WNW	3	bc	30.24	+ .06	58	53	- 2	SSW	3	bc	3	68	56	-	
FRANCE AND BELGIUM.	Pembroke (St. Ann's Hd.)	30.16	56	WSW	3	r	30.23	+ .07	57	56	+ 1	W	2	e	2	58	55	0.02	
	Scilly ...	30.25	58	W	4	m	30.27	+ .05	57	57	- 1	NW	4	m	3	61	53	0.02	
	Prawle Point ...	30.22	58	WNW	4	e	30.25	-	58	58	0	WNW	2	og	1	59	55	0.01	
	Jersey (St. Aubin's)	30.28	58	W	4	ogm	30.27	- .01	58	58	- 2	WNW	4	odg	3	62	56	0.02	
	Hurst Castle ...	30.19	60	W	4	bc	30.19	- .02	62	61	+ 6	WNW	3	c	2	64	56	0.04	
	Dungeness ...	30.13	58	WSW	5	c	30.14	- .01	61	59	+ 1	W	1	0	0	64	52	-	
	London ...	30.13	64	WSW	1	c	30.16	- .00	61	60	+ 5	Z	0	0	*	68	55	0.04	
	Oxford ...	30.16	60	W	3	0	30.17	+ .02	61	60	+ 5	WNW	1	od	*	66	56	0.05	
	Cambridge ...	30.13	65	Z	0	c	30.17	+ .05	64	60	+ 5	N	1	0	*	68	55	-	
	Yarmouth ...	30.09	64	W	2	c	30.14	+ .05	61	58	0	NNE	2	b	2	65	56	-	
PENINSULA.	Cuxhaven ...	30.09	57	W	3	b	29.95	- .01	57	55	- 2	NNW	5	bc	*	63	55	0.40	
	Berlin ...	30.06	62	WNW	3	c	29.99	- .08	58	56	- 1	S	2	c	*	65	54	-	
	Wiesbaden ...	*	*	*	*	*	30.08	- .00	62	58	+ 1	W	4	bc	*	68	57	-	
	Munich ...	30.19	57	W	2	0	30.15	- .01	54	53	- 5	SW	4	r	*	68	52	0.28	
	The Helder ...	30.06	59	WSW	2	c	30.08	- .02	56	52	- 1	NNW	2	bc	3	64	55	0.12	
	Brussels (9 a.m.)	*	*	*	*	*	30.12	- .02	60	58	- 2	W	2	0	*	69	55	-	
	Cape Gris Nez	?	57	WSW	5	0	?	?	59	57	+ 2	W	1	r	1	63	55	-	
	Paris ...	30.22	64	WNW	3	0	30.24	+ .03	60	57	0	W	2	0	*	73	59	-	
	Brest ...	30.30	58	NW	2	m	30.28	+ .02	58	57	0	N	1	0	2	61	50	-	
	Lorient ...	30.30	60	WNW	4	b	30.31	+ .01	58	57	+ 4	NW	2	0	2	64	54	-	
PENINSULA.	Rochefort ...	30.28	65	NW	4	b	30.36	+ .07	63	62	+ 3	WNW	2	b	*	72	55	-	
	Belfort ...	30.13	67	NW	1	bc	30.13	-	64	50	-	NW	1	c	*	82	56	-	
	Lyons ...	30.17	71	N	2	c	30.24	+ .07	63	57	- 2	NNW	1	0	*	79	57	-	
	Nice ...	30.02	67	SW	3	c	30.02	- .08	64	63	- 2	SW	2	0	1	77	61	-	
	Perpignan ...	30.13	79	NW	3	b	30.19	+ .04	78	64	- 1	NW	3	0	*	89	70	-	
	Biarritz ...	30.24	66	N	3	0	30.30	+ .03	66	63	+ 2	N	2	b	2	75	63	-	

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

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for 8 a.m. on

Monday, 23<sup>rd</sup> June

1890.

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### EXPLANATION OF MAP.

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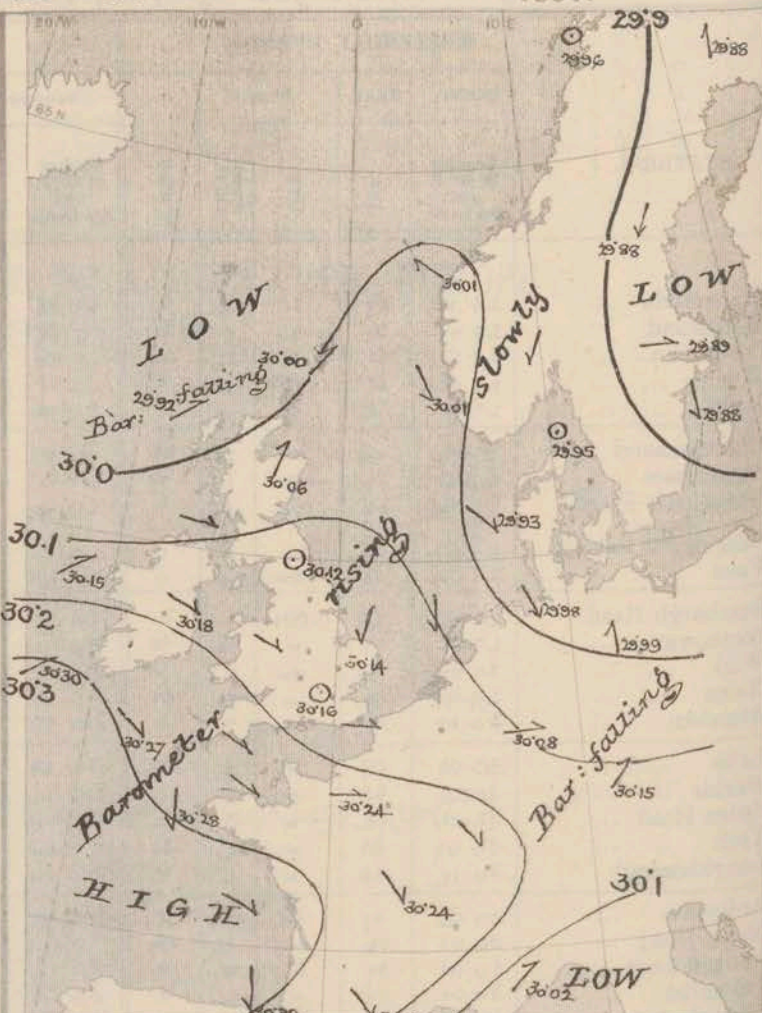
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at 8.0 a.m. for the month of June.

During the 15 Years: 1871—1885.

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Nairn .....	29.880
Aberdeen .....	29.890
Leith .....	29.904
Shield .....	29.928
York .....	29.949
Loughborough .....	29.958
Ardrossan .....	29.909
Donaghadee .....	29.920
Holyhead .....	29.944
Liverpool .....	29.944
Parsonstown .....	29.952
Valencia .....	29.954
Roche's Point .....	29.952
Pembroke .....	29.952
Sally .....	29.982
Jersey .....	29.994
Hurst Castle .....	29.981
Dover .....	29.971
LONDON .....	29.976
Oxford .....	29.984
Cambridge .....	29.967
Yarmouth .....	29.953



## 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 June.)

STATIONS.	TEMPERATURE.				RAINFALL. (Inches.)
	Daily Max.	Daily Min.	at 8 a.m.		
			Dry.	Wet.	
Sumburgh Head.....	54.5	45.1	50.4	48.7	2.07
Stornoway .....	57.0	46.0	53.3	51.0	2.99
Wick.....	58.8	45.7	53.1	50.4	1.75
Nairn .....	62.1	48.0	54.2	50.4	1.88
Aberdeen .....	61.3	47.5	54.7	50.9	1.88
Leith .....	64.5	48.1	56.0	52.5	1.84
Shields .....	60.9	49.1	54.9	51.9	1.82
York .....	66.2	48.3	56.1	52.7	2.45
Loughborough .....	58.7	49.0	53.1	54.1	2.43
Ardrossan .....	62.0	49.7	55.1	52.0	2.62
Donaghadee.....	60.9	48.9	53.0	52.8	2.04
Holyhead .....	61.7	51.6	55.6	53.1	2.10
Liverpool .....	63.6	50.9	56.6	52.6	1.96
Parsonstown .....	64.0	48.2	55.8	52.2	2.46
Valencia .....	61.7	50.7	56.8	53.8	3.42
Roche's Point .....	64.8	50.8	56.5	53.3	3.26
Pembroke.....	60.3	51.4	55.9	52.9	2.09
Sally .....	61.1	53.0	57.2	55.0	1.94
Jersey .....	64.8	52.6	58.7	55.0	1.83
Hurst Castle .....	63.9	51.9	57.6	55.4	2.07
Dover .....	63.3	53.1	58.6	55.1	1.72
LONDON .....	69.3	50.6	59.2	54.8	2.12
Oxford .....	67.1	49.4	56.9	53.4	2.28
Cambridge .....	68.8	48.5	58.0	54.7	2.49
Yarmouth .....	62.2	51.4	56.9	54.1	2.02

**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 an anticyclone lying over the Bay of Biscay and to the southwards of our Islands.  
Lowest, 29.9 ins: and less, in Sweden.

## TEMPERATURE

Gradients slight. Barometer falling a little in Scotland, as well as in Denmark and Germany, but rising elsewhere.

Highest, 75° at Perpignan, 69° at Fribourg, 66° at Bismitz, 64° at Cambridge, Belfast, Nice and Cambridge.

Lowest, 52° at Bobo, Edinburgh, and Wick, 53° at Leeds, and 54° at Narvik and Shields.

The highest maxima registered over our Islands yesterday were 69° at Loughborough, and 68° at Hooker Point, Cambridge, and in London.

## WIND

W<sup>3</sup> or NW<sup>3</sup> over the greater part of England, France, Denmark and the Netherlands.

N<sup>3</sup> in Sweden and the south of Norway; variable in the east of Norway.

## WEATHER

Cloudy or overcast over the greater part of our Islands and France, with rain at some of our northern stations, as well as at C. G. Key and Munich, and fog at Jersey.

A little rain fell yesterday in many parts of the United Kingdom.

## SEA

Slight or smooth generally.

## PROBABLE CHANGES IN SYSTEM NOW PREVALENT

The cloudy weather reported over our Islands seems to be due to the presence of some exceedingly small and shallow depressions; and although the barometer is at present rising in most places, it is not unlikely that rain and thunder will be experienced at many of the English stations.

## FORECASTS

For the 24 hours ending at NOON on 24<sup>th</sup> JUNE 1890.

### DISTRICTS.

### FORECASTS.

0	SCOTLAND NORTH	S <sup>2</sup> to W <sup>2</sup> winds, light, changeable, some rain.
1	SCOTLAND EAST	
2	ENGLAND N.E.	Light variable airs, cloudy, some rain, thunder locally.
3	ENGLAND EAST	Light breezes, chiefly NW <sup>2</sup> ; changeable some rain, thunder locally.
4	MIDLAND COUNTIES	
5	ENGLAND SOUTH	

### DISTRICTS.

### FORECASTS.

6	SCOTLAND WEST	W <sup>2</sup> to NW <sup>2</sup> winds, light, cloudy, some rain.
7	ENGLAND N.W.	
8	ENGLAND S.W.	NW <sup>2</sup> winds, light, fair generally.
9	IRELAND NORTH	SW <sup>2</sup> to W <sup>2</sup> winds, light or moderate; cloudy, rain locally.
10	IRELAND SOUTH	

### WARNINGS

NONE ISSUED.

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



# YESTERDAY'S 2 P.M. REPORTS.

THER: WIND								THER: WIND							
BAR:		D.	W.	D.	F.	WEA.	SEA	BAR:		D.	W.	D.	F.	WEA.	SEA
Skudesnaes ...	29.92	55	51	SSC	2	0	2	Holyhead ...	30.12	61	58	SW	3	c	2
Sumburgh Head								Valencia ...							
Stornoway ...	29.96	60	57	NE	2	6c	3	Scilly ...							
Aberdeen ...								Jersey ...	30.29	61	57	W	3	0	3
Shields ...								Dungeness ...	30.13	59	56	W	4	c	3
Ardrossan ...								London ...							*
Malin Head ...	29.03	58	57	W	3	0	1	Yarmouth ...							
Mullaghmore ...								Rocheport ...	30.34	69	63	W	4	6c	*
Belmullet ...	30.08	57	57	W	2	0	*								

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

Weather fine and bright over southeastern and southern Europe and the Mediterranean, as well as in some parts of the British Islands and central France, cloudy and changeable elsewhere, with slight rain in the west of Ireland, and a very heavy passing shower at Wick. Some showers during day in many parts of the United Kingdom; nearly half an inch of rain at Sumburgh Head, thunder and rain in some parts of Germany.

Temperature low for the time of year. Morning reading exceeding 70° over the southern and eastern shores of the Mediterranean, and over the Adriatic, lower elsewhere, and below 60° over nearly the whole of northern and eastern Europe. Lowest of all 52° at Uleaborg, 53° in the northwest of Norway, and at Kuopio, 54° at Skudesnaes and Sumburgh Head, and 56° at Moscow, Münster, London and Belmullet, not reaching 70° at any of our own stations during day, but rising to 82° at Lisbon and Rocheport, and 89° at Perpignan.

Wind moderate W<sup>ly</sup> over the British Islands and North Sea, SW<sup>ly</sup> to S<sup>ly</sup> over the Baltic Provinces and Finland, NE<sup>ly</sup> over Spain and the W of France, light and very variable elsewhere. No important change later so far as our Islands are concerned.

Barometer highest 30.1 ins. to 30.3 ins. in a large anticyclone lying over western Europe and the neighbouring parts of the Atlantic; lowest 30.1 ins. and less in a shallow depression lying over the Mediterranean, about 29.7 ins. in another over Sweden and the Gulf of Bothnia, and rather below 29.85 ins. in a small one over the North Sea, near Wick. Latter system filling up later, hardly any change elsewhere.

## SUMMARY OF CHANGES IN THE WEATHER OVER THE BRITISH ISLANDS AND THEIR NEIGHBOURHOOD FROM THE 15<sup>TH</sup> TO THE 21<sup>ST</sup> JUNE 1890.

In the course of this week anticyclonic systems of moderate intensity have prevailed over the southern half of our area - i.e. over the Bay of Biscay, Spain, France and the southern part of Ireland and England. Occasionally the southern portion of another high-pressure system has appeared over Lapland and northern Europe, but this has been small and of little energy, and at the close of the week was breaking up. In the meantime depressions of little depth have, from time to time, advanced to our northern coasts from the southwestward, while their secondary systems (which have been extremely shallow) have taken a more southern course and travelled across England. The dominant winds have been SW<sup>ly</sup> (S to W), and their forces light to moderate. Temperature has been somewhat low - the daily maxima having been usually below 70°, and the nights cool - and while rain has fallen daily on our western and northern coasts, showers have occasionally been experienced over England also.

At the close of the week the high-pressure area in the south was moving a little to the westward, and spreading northwards up our western coasts, the weather, however, showed no tendency to clear, in London a sharp fall of rain occurred on Saturday evening, and the appearance of the sky continued unsettled even at midnight.

## 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 24<sup>th</sup> June, 1890.  
Issued by the Meteorological Office, 63, Victoria Street, London. R. H. SCOTT, Secretary.

R. H. SCOTT, Secretary.																		
LONDON, 10, VICTORIA STREET, OFFICE OF THE SECRETARY OF THE AIR.																		
PAST 24 HOURS.																		
8 A.M. TO DAY.																		
YESTERDAY EVENING.																		
BAROMETER.																		
SHADE TEMP.																		
WIND.																		
STATIONS.																		
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For Explanation of Columns, see bottom of p. 4.

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



# WEATHER CHARTS

for 8 a.m. on Tuesday 24<sup>th</sup> June.

1890.

## BAROMETER, WIND AND SEA.

### EXPLANATION OF MAP.

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

Changes since previous morning are stated in words.

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

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

→ = forces 5 to 7; → = forces 1 to 4.

○ = dead calm.

**SEA DISTURBANCE**—Where considerable, is shown thus:

▨ = Rough. ▨ = High.

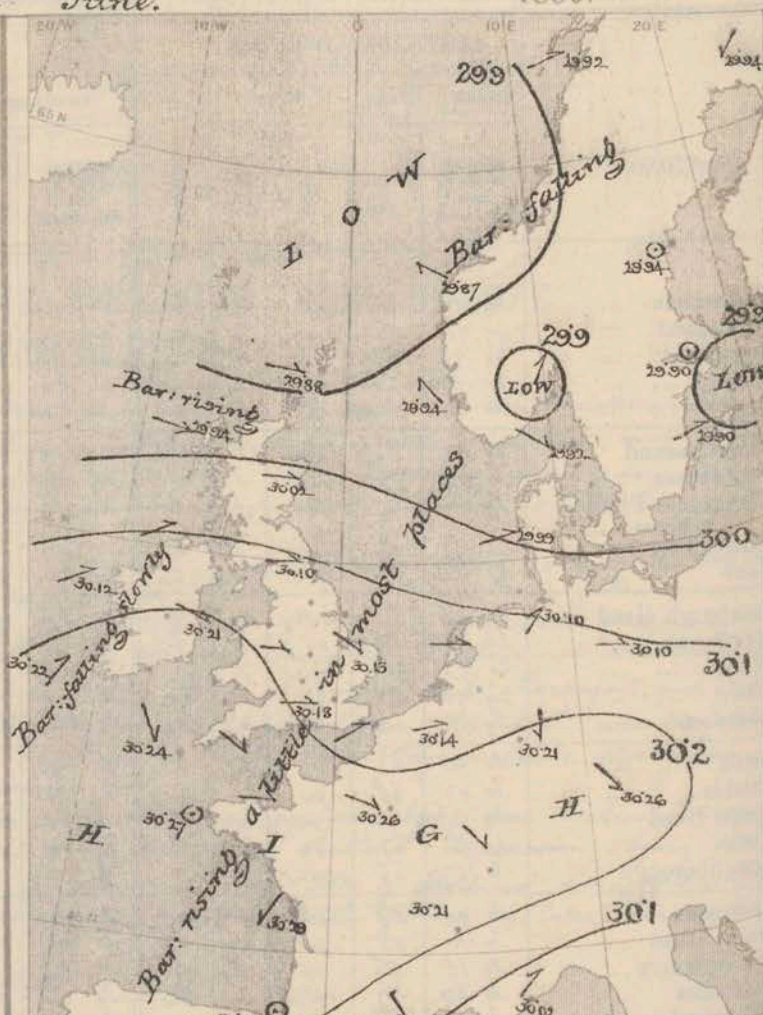
## MEAN HEIGHT OF THE BAROMETER

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

### STATIONS.

### MEAN READINGS.

STATIONS.	MEAN READINGS.
Sumburgh Head	29.862
Stornoway	29.852
Wick	29.874
Nairn	29.880
Aberdeen	29.890
Leith	29.904
Shields	29.928
York	29.949
Loughborough	29.958
Ardrossan	29.909
Donaghadee	29.920
Holyhead	29.944
Liverpool	29.944
Parsonstown	29.952
Valencia	29.954
Roche's Point	29.952
Pembroke	29.952
Scilly	29.982
Jersey	29.994
Hurst Castle	29.981
Dover	29.971
LONDON	29.976
Oxford	29.964
Cambridge	29.967
Yarmouth	29.963



## 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.

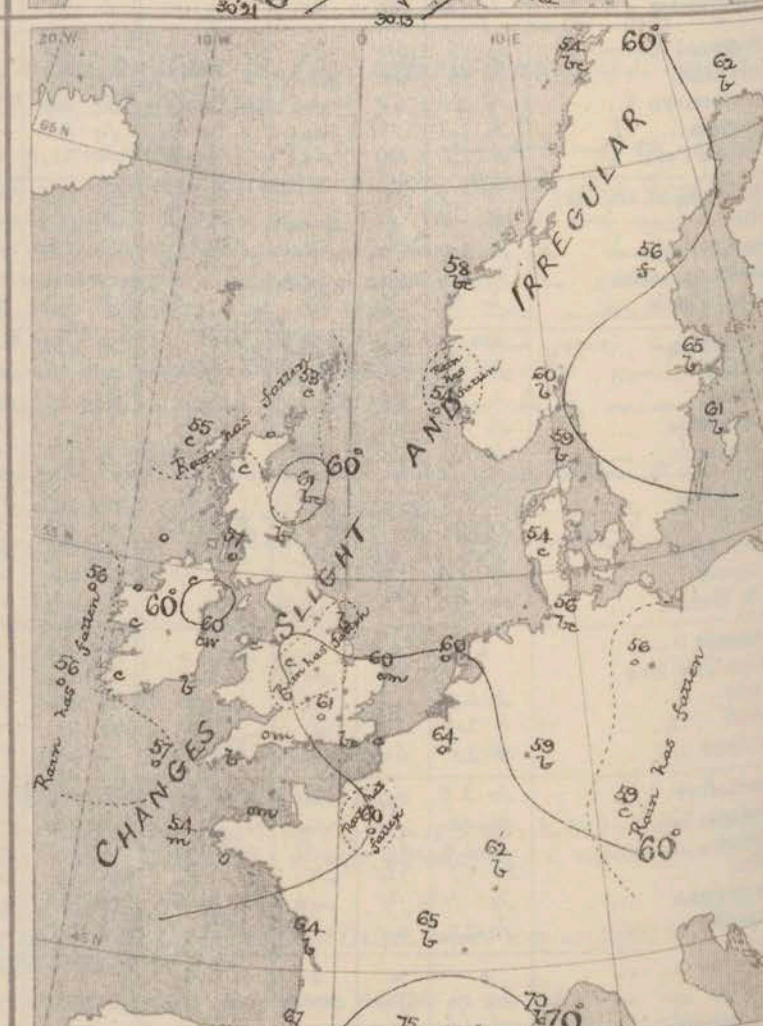
**WEATHER** is shown by Letters of the Beaufort Scale.

**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 June.)

STATIONS.	TEMPERATURE.				RAINFALL (Inches.)
	Daily Max.	Daily Min.	at 8 a.m.		
			Dry.	Wet.	
Sumburgh Head.....	51.5	45.1	50.4	48.7	2.07
Stornoway .....	57.6	46.0	53.3	51.0	2.99
Wick.....	58.8	45.7	53.1	50.4	1.75
Nairn.....	62.1	48.0	54.2	50.4	1.88
Aberdeen.....	61.3	47.5	54.7	50.9	1.88
Leith.....	64.5	48.1	56.0	52.5	1.84
Shields.....	60.9	49.1	54.9	51.9	1.82
York.....	60.2	48.3	56.1	52.7	2.45
Loughborough .....	68.7	49.0	58.1	54.1	2.43
Ardrossan .....	62.0	49.7	55.1	52.0	2.62
Donaghadee.....	60.9	48.9	55.0	52.8	2.04
Holyhead.....	61.7	51.6	56.6	53.1	2.10
Liverpool.....	63.6	50.9	56.6	52.6	1.96
Parsonstown.....	64.0	48.2	55.8	52.2	2.46
Valencia.....	61.7	50.7	56.8	53.8	3.42
Roche's Point.....	64.8	50.8	56.5	53.3	3.26
Pembroke.....	60.3	51.4	55.0	52.9	2.09
Scilly.....	61.1	53.0	57.2	55.0	1.94
Jersey.....	64.8	52.6	58.7	55.9	1.83
Hurst Castle.....	63.9	51.9	57.6	55.4	2.07
Dover.....	63.3	53.1	58.6	55.1	1.72
LONDON.....	69.3	50.6	59.2	54.8	2.12
Oxford.....	67.1	49.4	56.9	53.4	2.28
Cambridge.....	68.8	48.5	58.0	54.7	2.49
Yarmouth.....	62.2	51.4	56.9	54.1	2.02

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





# GENERAL SITUATION AT 8 A.M.

## PRESSURE

Highest, 30.2 in: and upwards, in a large anticyclone lying over the Bay of Biscay, France, the southwest of our Islands and South Germany.  
Lowest, 29.9 in: and less, in a large depression lying to the northwest of Scotland and the westward of Norway, and also in two small and very shallow disturbances lying respectively near Christiania and Stockholm.  
Gradient slight. Barometer rising a little over Great Britain, but falling in most other parts of our area.

## TEMPERATURE

Highest, 75° at Perpignan, 70° at Nice, 67° at Biarritz, and 65° at Stockholm and Lyons.  
Lowest, 53° at Lumburgh Head, 54° at Oslo, Skudsmo, Tana and Trondheim, and 55° at Stornoway, Wick, Nairn, and Malin Head.  
The highest maxima registered over our Islands yesterday were 72° at Banbridge, and 70° at Shields.

## WIND

Light or moderate from the West (SW to NW) over our Islands, and also in Denmark, the Netherlands and Germany.  
Light from the SE in the west of Norway, and from the NE in the west of France.  
Variable in the south of France; calm in Sweden.

## WEATHER

Fair generally but dull in places, and misty at several of the Channel stations.  
Slight showers fell yesterday in many parts of the United Kingdom, and a solar halo was seen at Mullaghmore.

## SEA

Slight or smooth generally.

## PROBABLE CHANGES IN SYSTEM NOW PREVALENT

The barometer is again falling slightly on our extreme western coasts, and it is therefore probable that further small depressions are advancing over our Islands from the Atlantic. Changeable weather seems likely to continue in most districts.

# FORECASTS

For the 24 hours ending at NOON on 25<sup>th</sup> JUNE 1890.

## DISTRICTS.

## FORECASTS.

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

W<sup>ly</sup> and SW<sup>ly</sup> winds, light; changeable, local showers.  
  
Same as No 5  
  
NW<sup>ly</sup> to SW<sup>ly</sup> winds, light; fine to dull and some rain.

## DISTRICTS.

## FORECASTS.

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

Same as Nos 0 and 1.

W<sup>ly</sup> to SW<sup>ly</sup> winds, moderate; fair to dull and some rain.

SW<sup>ly</sup> and W<sup>ly</sup> winds, moderate; unsettled, rain at times.

## WARNINGS

NONE ISSUED.

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



# YESTERDAY'S 2 P.M. REPORTS.

THER. WIND								THER. WIND							
BAR:	D.	W.	D.	F.	WEA.	SEA		BAR:	D.	W.	D.	F.	WEA.	SEA	
Skudesnaes ...	30.02	60	58	NW	4	b	2	Holyhead ...	30.19	63	60	SW	2	bg	2
Sumburgh Head ...	29.92	52	50	S	2	T	2	Valencia ...	30.28	59	58	SW	4	om	4
Stornoway ...	29.93	58	56	W	3	0	2	Scilly ...	30.27	58	58	WNW	4	f	3
Aberdeen ...	29.58	60	57	S	2	0	2	Jersey ...	30.23	62	60	W	3	0	3
Shields ...	30.08	64	61	S	1	0	2	Dungeness ...	30.17	60	58	WNW	3	bc	1
Ardrossan ...	30.08	58	56	SW	2	bc	1	London ...	30.18	66	62	WNW	1	om	*
Malin Head ...	30.08	56	56	WNW	5	0	3	Yarmouth ...	30.16	63	58	W	3	b	2
Mullaghmore ...	30.15	58	57	W	5	om	4	Rocheport ...	30.35	66	64	NW	4	m	0
Belmullet ...	30.19	58	54	W	4	0	*								

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

Weather fine and bright over Scandinavia, on the shores of the Black Sea, in Algeria and Spain, cloudy and unsettled elsewhere, especially over the British Islands, where sky was dull generally and air damp. Little change later; air in London muggy, with dark damp fog; finer in evening.

Temperature risen somewhat over Russia; still low for time of year in most places. Morning readings above 70° at Mediterranean stations and at Madrid only; above 60° over France, the southeast of England and several parts of Russia; as low as 52° at Bobo. Sumburgh Head, and Wick, 53° at Warsaw, 54° at Aberdeen, Shields, Breslau and Riga. Rising to between 68° and 72° over England later, to 72° at Wiesbaden and Brussels, to 84° at Lister, and to 85° at Perpignan.

Wind light from SW. in Ireland and Scotland, from NW over England and France, fresh from NE. over Spain, N. over Scandinavia, NW over Holstein, SW to S over the Baltic Provinces; very variable elsewhere. Backing a little over England later.

Barometer highest 30.1 ins. to 30.3 ins. and more in anticyclonic system lying over Ireland, England, Spain, France, the Bay of Biscay, and adjacent parts of the Atlantic; lowest 30.0 ins. and less, off our extreme northwestern and northern coasts, 29.9 ins. and less over Sweden, the northern parts of the Baltic and Baltic Provinces, as well as over Austria-Hungary, 30.0 ins. and less, over the Gulf of Genoa; gradient slight to moderate and irregular. Little change later.

### EXPLANATION OF COLUMNS GIVEN ON PAGE 1.

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

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

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

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



# DAILY WEATHER REPORT.

for *Wednesday, 25<sup>th</sup> June, 1890.*  
*Issued by the Meteorological Office, 63, Victoria Street, London. R. H. SCOTT, Secretary.*

Published by the Hydrographic Office, 25, Falmouth Street, London. R. H. SCOTT, Secretary.																			
STATIONS.		YESTERDAY EVENING.					8 A.M. TO DAY.										PAST 24 HOURS.		
		BAROM.  Reading at 32° F. and Sea Level.	TEMP.  Dry.	WIND.		Weather.	BAROMETER.		SHADE TEMP.			WIND.		Weather.	Sea. (0 to 3.)	SHADE TEMP.			
				Direc.	Force. (0 to 12.)		Reading at 32° F. and Sea Level.	Difference from 8 a.m. yesterday.	Dry.	Wet.	Difference from 8 a.m. yesterday.	Direc.	Force. (0 to 12.)			Max.	Min.	Amount of Rainfall.	
SCANDINAVIA.	Haparanda ...	29.89	53	W	0	b	† 29.88	- .06	69	65	+ 7	E	2	bc	*	72	50	-	
	Hernösand ...	29.88	50	SSW	2	f	† 29.86	- .08	57	54	+ 1	SW	2	b	*	66	48	-	
	Stockholm ...	29.86	61	W	0	b	† 29.90	- .00	67	58	+ 2	2	0	b	*	72	54	-	
	Wisby ...	29.88	59	SSW	4	b	† 29.89	- .01	61	58	0	W	4	b	*	70	50	-	
	Bodö ...	29.87	55	NE	1	c	29.88	- .04	55	53	+ 1	2	0	c	1	59	50	0.12	
	Christiansund	29.91	56	W	4	c	29.79	- .08	58	53	0	NE	3	c	2	59	52	-	
	Skudesnaes ...	29.97	55	NW	4	0	29.84	- .10	53	51	- 1	SSE	6	r	4	59	48	0.04	
	Christiania Fjord (Færder)	29.87	57	SSW	3	bc	29.89	- .00	59	56	- 1	SSE	3	0	3	61	55	-	
	Skagen (The Scaw)	29.90	55	W	0	c	29.93	+ .01	59	55	0	W	3	c	2	66	50	-	
	Fanö ...	30.00	55	NW	4	c	30.04	+ .05	60	56	+ 6	W	4	bc	*	60	50	0.35	
BRITISH ISLANDS.	Sumburgh Head	29.91	54	W	3	bc	29.29	- .59	54	50	0	S	7	c	4	58	49	0.28	
	Stornoway ...	29.85	54	W	6	r	29.65	- .20	50	50	- 5	W	6	0	b	6	60	48	0.56
	Wick ...	29.90	56	S	1	0	29.45	- .45	56	52	+ 1	W	10	b	6	62	50	0.04	
	Nairn ...	29.89	55	W	1	0	29.64	- .25	56	52	+ 1	WNW	7	bc	5	65	50	0.03	
	Aberdeen ...	29.95	58	SW	2	cpm	29.70	- .25	59	50	- 2	WSW	4	cq	2	66	52	0.08	
	Leith ...	30.01	61	W	2	c	29.82	- .19	57	52	- 2	W	4	c	*	63	52	0.04	
	Shields ...	30.02	63	W	3	c	29.89	- .13	60	58	+ 3	WSW	4	r	2	66	50	0.01	
	Spurn Head ...	30.12	59	SE	3	c	30.00	- .12	62	57	+ 2	SW	3	bc	3	64	55	-	
	York ...	30.13	62	W	1	c	29.98	- .15	62	58	+ 2	W	3	c	*	70	53	-	
	Loughborough	30.13	69	2	0	0	30.06	- .07	63	58	- 1	WSW	4	cq	*	73	52	-	
GERMANY & HOLLAND.	Ardrossan ...	29.98	56	S	3	r	29.88	- .10	56	51	- 1	WSW	4	0	3	58	53	0.29	
	Malin Head ...	29.83	56	S	7	0	29.91	- .08	53	51	- 2	W	4	0p	3	59	51	0.18	
	Mullaghmore ...	29.86	57	SSW	7	07g	29.98	- .12	54	52	- 2	W	5	c	3	59	51	0.29	
	Belmullet ...	29.84	58	SW	6	0	29.99	- .13	55	52	- 1	WNW	2	0	*	58	51	0.34	
	Donaghadee ...	30.01	57	SW	3	0	29.97	- .04	55	53	- 5	W	3	0	1	65	53	0.09	
	Liverpool (Bidston)	30.11	60	WNW	1	c	30.00	- .11	59	57	+ 2	WSW	5	0	4	62	55	-	
	Holyhead ...	30.11	56	SW	4	0g	30.01	- .10	55	55	- 6	SW	4	rgm	4	65	54	0.01	
	Parsonstown ...	30.00	64	SW	1	c	30.01	- .01	55	54	- 2	2	0	r	*	66	53	0.16	
	Valencia ...	30.05	59	S	6	0	30.03	- .02	58	57	+ 2	2	0	om	1	60	55	0.33	
	Roche's Point...	30.13	57	SW	4	c	30.03	- .10	56	56	- 1	WNW	1	r	3	62	55	0.35	
FRANCE AND BELGIUM.	Pembroke (St. Ann's Hd.)	30.17	56	SW	3	bc	30.07	- .10	56	55	0	SSW	3	†	3	60	54	?	
	Scilly ...	30.17	58	SSW	3	f	30.09	- .08	56	56	- 1	SSW	3	†	3	59	55	0.01	
	Prawle Point ...	30.20	58	WNW	4	bc	30.15	- .05	56	56	- 6	WNW	2	†	1	63	52	0.01	
	Jersey (St. Aubin's)	30.24	60	WNW	3	0	30.19	- .05	57	55	+ 1	NE	1	†	1	61	49	0.01	
	Hurst Castle ...	30.19	61	SW	4	b	30.16	- .03	56	55	- 3	SW	2	†	1	66	52	-	
	Dungeness ...	30.14	58	WSW	4	f	30.13	- .02	54	53	- 7	WSW	4	†	3	63	52	-	
	London ...	30.13	74	W	2	bc	30.12	- .01	58	56	- 3	WSW	2	0p	*	76	54	0.03	
	Oxford ...	30.12	65	WSW	2	b	30.12	- .00	57	55	- 3	SW	3	0	*	75	52	-	
	Cambridge ...	30.15	69	W	1	b	30.09	- .06	63	58	0	SW	1	c	*	75	50	-	
	Yarmouth ...	30.16	62	SE	1	b	30.06	- .10	65	60	+ 5	SW	3	b	2	65	55	-	
PENINSULA.	Cuxhaven ...	30.02	56	NW	5	bc	30.09	- .07	59	57	+ 3	NW	3	b	*	60	54	0.36	
	Berlin ...	30.06	58	WNW	3	0	30.10	00	57	54	+ 1	NW	4	0	*	66	54	0.04	
	Wiesbaden ...	*	*	*	*	*	30.20	- .01	60	55	+ 1	NW	4	0	*	73	54	0.12	
	Munich ...	30.20	61	NW	1	c	30.24	- .04	59	57	0	W	4	0	*	68	55	0.04	
	The Helder ...	30.15	57	WNW	1	bc	30.10	+ .05	60	56	0	S	2	bc	3	61	50	-	
	Brussels (9 a.m.)	*	*	*	*	*	30.17	+ .03	67	62	+ 3	SSW	2	b	*	75	62	0.08	
	Cape Gris Nez	?	56	WSW	4	f	?	?	54	54	- 6	W	4	†	4	63	52	-	
	Paris ...	30.18	73	WSW	2	b	30.20	- .02	65	61	+ 5	N	1	†	*	78	51	-	
	Brest ...	30.20	60	N	2	m	30.12	- .08	61	58	+ 7	E	1	b	2	68	50	-	
	Lorient ...	30.22	63	W	2	b	30.13	- .09	60	57	+ 1	E	1	b	2	68	57	-	
FRANCE AND BELGIUM.	Rochefort ...	30.21	74	NW	3	b	30.18	- .03	66	63	+ 2	E	4	b	*	82	55	-	
	Belfort ...	? 30.21	69	E	1	b	? 30.21	+ .00	64	57	+ 2	E	1	b	*	82	53	-	
	Lyons ...	30.14	72	N	3	b	30.17	- .04	66	60	+ 1	E	1	b	*	76	58	-	
	Nice ...	30.03	?	WSW	3	b	30.06	+ .04	81	61	+ 11	2	0	b	0	82	64	-	
	Perpignan ...	30.06	80	SE	2	b	30.13	- .00	78	71	0	2	0	b	*	88	59	-	
	Biarritz ...	30.10	70	WNW	3	b	30.06	- .04	68	65	+ 1	S	3	c	1	77	63	-	
PENINSULA.	Corunna ...	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	
	Lisbon ...	29.99	67	WSW	3	bc	30.04	+ .05	64	63	0	2	0	†	2	77	64	-	

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

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



# WEATHER CHARTS

for 8 a.m. on

WEDNESDAY, 25<sup>th</sup> June.

1890.

## BAROMETER, WIND AND SEA.

### EXPLANATION OF MAP.

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

Changes since previous morning are stated in words.

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

their barbs and feathers refer to force thus—

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

→ = forces 5 to 7; → = forces 1 to 4.

⊙ = dead calm.

**SEA DISTURBANCE**—Where considerable, is shown thus:

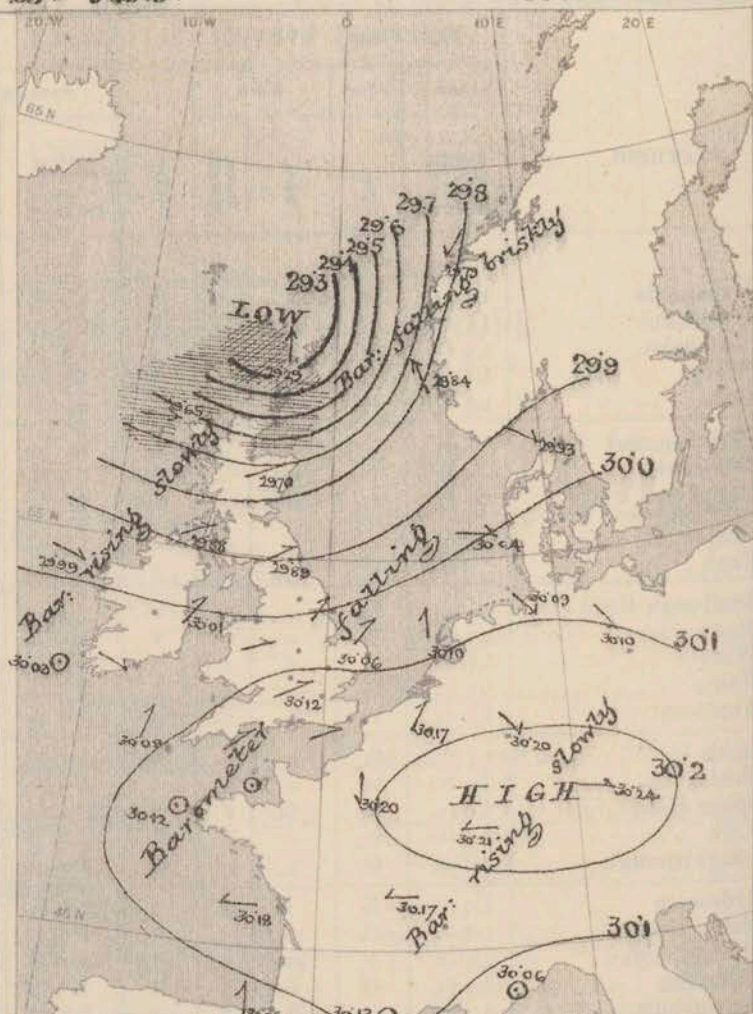
▨ = Rough. ▨ = High.

## MEAN HEIGHT OF THE BAROMETER

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

During the 15 Years: 1871—1885.

STATIONS.	MEAN READINGS.
Sumburgh Head .....	29.862
Stornoway .....	29.852
Wick .....	29.874
Nairn .....	29.880
Aberdeen .....	29.890
Leith .....	29.904
Shields .....	29.928
York .....	29.949
Loughborough .....	29.958
Ardrossan .....	29.909
Donaghadee .....	29.920
Holyhead .....	29.944
Liverpool .....	29.944
Parsonstown .....	29.952
Valencia .....	29.954
Roche's Point .....	29.952
Pembroke .....	29.952
Scilly .....	29.952
Jersey .....	29.994
Hurst Castle .....	29.981
Dover .....	29.971
LONDON .....	29.976
Oxford .....	29.964
Cambridge .....	29.967
Yarmouth .....	29.963



## 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.

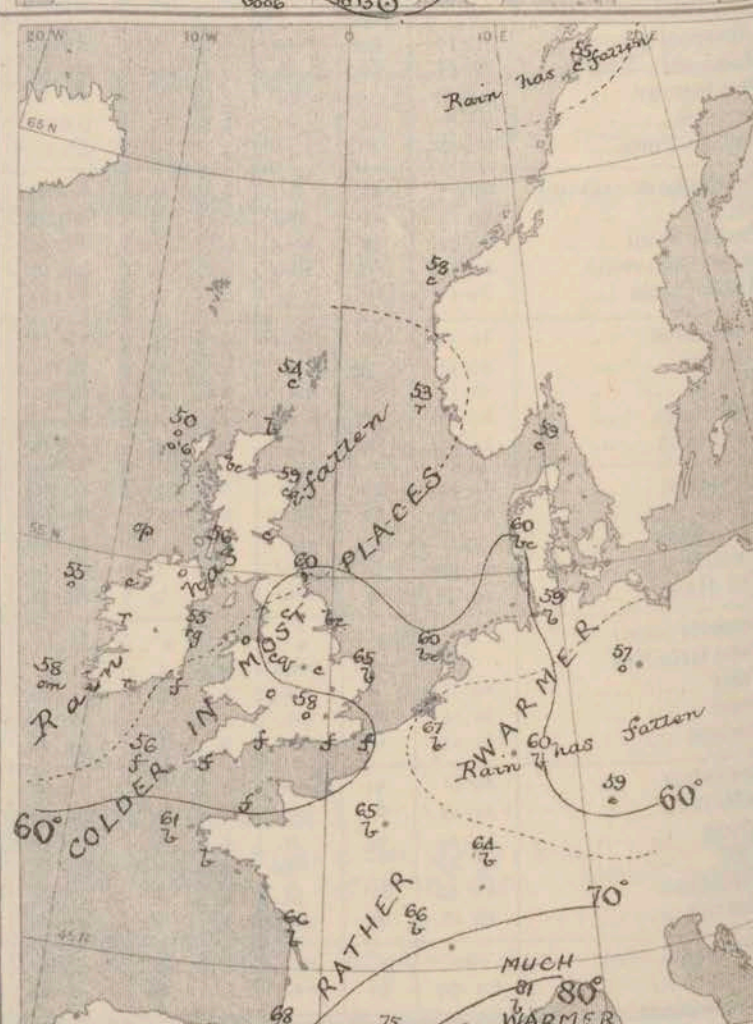
**RAINFALL**—A dotted line separates the districts in which rain has fallen from those where there has been none. Falls of 0.5 in. or more are quoted in figures.

### MEANS OF TEMPERATURE IN SHADE, AND RAINFALL.

(For the month of June.)

STATIONS.	TEMPERATURE.				RAINFALL (Inches.)
	Daily Max.	Daily Min.	at 8 a.m. Dry.	Wet.	
Sumburgh Head.....	51.5	45.1	50.4	48.7	2.07
Stornoway .....	57.6	46.0	53.3	51.0	2.99
Wick .....	58.8	45.7	53.1	50.4	1.75
Nairn .....	62.1	48.0	54.2	50.4	1.88
Aberdeen .....	61.3	47.5	54.7	50.9	1.88
Leith .....	64.5	48.1	56.0	52.5	1.84
Shields .....	60.9	49.1	54.9	51.0	1.82
York .....	66.2	48.3	56.1	52.7	2.45
Loughborough .....	68.7	49.0	58.1	54.1	2.43
Ardrossan .....	62.0	49.7	55.1	52.0	2.62
Donaghadee .....	60.9	48.9	55.0	52.8	2.04
Holyhead .....	61.7	51.0	55.6	53.1	2.10
Liverpool .....	63.6	50.9	56.6	52.6	1.96
Parsonstown .....	64.0	48.2	55.8	52.2	2.46
Valencia .....	61.7	50.7	56.8	53.8	3.42
Roche's Point .....	64.8	50.8	56.5	53.3	3.26
Pembroke .....	60.3	51.4	55.0	52.9	2.09
Scilly .....	61.1	53.0	57.2	55.0	1.94
Jersey .....	64.8	52.6	58.7	55.9	1.83
Hurst Castle .....	63.9	51.9	57.6	55.4	2.07
Dover .....	63.3	53.1	58.6	55.1	1.72
LONDON .....	69.3	50.6	59.2	54.8	2.12
Oxford .....	67.1	49.4	56.9	53.4	2.28
Cambridge .....	68.8	48.5	58.0	54.7	2.49
Yarmouth .....	62.2	51.4	56.9	54.1	2.02

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





# GENERAL SITUATION AT 8 A.M.

## PRESSURE

Highest, 30.2 in: over South Germany and the east of France; 30.1 in: and upwards over the whole of France, Germany, and the south of England.  
Lowest, 29.2 in: and less, in a well defined depression lying near the Shetlands.

Gradients steep over the northern parts of Scotland and the North Sea, but slight elsewhere.

Barometer rising in the extreme west and north of our Islands and also in Denmark, but falling elsewhere.

## TEMPERATURE

Highest, 81° at Nice, 73° at Perpignan, 68° at Biarritz, 67° at Boursals, 66° at Rochefort and Lyons, and 65° at Paris.

Lowest, 50° at Gomoray, 53° at Audenaes and Malin Head, and 54° at Dunburgh Head, Mullaghmore, Dungeness, and Cape Gris Nez.

During yesterday the thermometer rose to 75° at Oxford and Cambridge and to 76° in London.

## WIND

W<sup>3</sup> at most of our northern stations, with a whole gale at Wick, but S<sup>2</sup> in the Shetlands, as well as in the south of Norway.

Light or moderate from the SW<sup>4</sup> over the greater part of England, and from the W<sup>3</sup> in Denmark.

Variable in the south of Ireland; light from the E<sup>2</sup> over the greater part of France.

## WEATHER

Dull in Ireland and the west and north of England, with rain in several places.

Foggy at all the Channel stations and also at Pembroke, fine in Scotland and the east of England, as well as at most of the Continental stations, but thunder reported at Béziers.

Since yesterday morning rain has fallen in the west and north of our Islands generally, the largest amount being 0.6 in at Bournemouth.

## SEA

Very rough off the north of Scotland, but moderate to smooth elsewhere.

## PROBABLE CHANGES IN SYSTEM NOW PREVALENT

The depression in the north will probably travel away in a northerly direction, and the gale in Caithness is therefore likely to subside. In the southwest of our Islands there are some indications of the advance of shallow secondary systems. There will probably occasion rain over England, and perhaps local thunderstorms.

## FORECASTS

For the 24 hours ending at NOON on 26<sup>th</sup> JUNE 1890.

### DISTRICTS.

### FORECASTS.

0 SCOTLAND  
NORTH

W<sup>3</sup> winds, strong to a gale at first, but moderating later; squally, some showers.

1 SCOTLAND  
EAST

W<sup>3</sup> to SW<sup>3</sup> winds, moderate; unsettled, some showers, thunder locally.

2 ENGLAND  
N.E.

3 ENGLAND  
EAST

4 MIDLAND  
COUNTIES

5 ENGLAND  
SOUTH

SW<sup>3</sup> and S<sup>2</sup> winds, light or moderate; fair to unsettled and some rain, thunder locally.

### DISTRICTS.

### FORECASTS.

6 SCOTLAND  
WEST

W<sup>3</sup> and SW<sup>3</sup> winds, moderate or fresh; changeable, some showers.

7 ENGLAND  
N.W.

8 ENGLAND  
S.W.

S<sup>2</sup> to W<sup>3</sup> winds, light; cloudy, some rain, local fogs.

9 IRELAND  
NORTH

10 IRELAND  
SOUTH

Same as N<sup>o</sup> 6 and 7.

### WARNINGS

NONE ISSUED.

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



# YESTERDAY'S 2 P.M. REPORTS.

	BAR:	THER:		WIND		WEA.	SEA					THER:		WIND		WEA.	SEA
		D.	W.	D.	F.							D.	W.	D.	F.		
Skudesnaes ...	29.95	59	55	W	4	0	2	Holyhead ...	...	30.18	61	55	SW	3	0	g	2
Sumburgh Head ...	29.90	56	53	W	3	6	3	Valencia ...	...	30.13	59	57	S	6	0	m	5
Stornoway ...	29.91	60	54	W	4	c	4	Scilly ...	...	30.22	59	58	NW	2	0	o	3
Aberdeen ...	30.00	63	53	SE	1	c	1	Jersey ...	...	30.26	59	57	NW	3	0	o	3
Shields ...	30.09	64	56	SW	3	c	2	Dungeness ...	...	30.15	60	58	NW	5	0	o	3
Ardrossan ...	30.08	57	54	S	2	0	1	London ...	...	30.15	72	62	W	2	c	*	3
Malin Head ...	30.03	57	54	S	1	0	2	Yarmouth ...	...	30.15	63	56	NNE	4	0	o	*
Mullaghmore ...	30.04	57	54	SSE	5	0	4	Rochefort ...	...	30.25	76	72	NW	3	0	o	*
Belmullet ...	29.97	55	54	SW	5	0	*										

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

Weather fine and bright over Spain and the Mediterranean, also over the east of France, Central Russia, Finland and Sweden, cloudy or overcast in most other places; rain at Riga. Rain in many parts of the British Islands later, but amounts small except in the extreme west and north. A considerable fall 0.4 in. at Cuthbert. Sky clearing over England towards night.

Temperature showing some further increase over Russia and also in some parts of the British Islands. Morning readings exceeding 70° over Spain, the Mediterranean shores and at Constantinople, and exceeding 60° in many other places; below 60° over Central Europe, as well as in Ireland, Scotland, Norway, and Denmark. Rising during day to between 70° and 76° over England, and to upwards of 80° in many parts of France as well as at Cuthbert.

Wind W in the north of our Islands, over the North Sea, Denmark, the south of Sweden and North Germany, NW over the south of England, South Germany and Austria, N to NE over Spain and the west of France, SW to S in Ireland. Increasing considerably from the SW in Ireland later — slight gale in the northwest.

Barometer highest 30.1 in. to 30.3 in. in an anticyclone of irregular form lying over England, Ireland and France, and exceeding 29.9 in. over Russia, the Baltic, Denmark, Scandinavia, and the north of Scotland. Lowest 29.8 in. and less, over Hungary and the southwest of Russia, 29.9 in. and less, over the Shetlands and the west of Norway, as well as over the southeastern parts of the Mediterranean. Decided fall in the northwest of our Islands later, owing to the advance of new depression from Atlantic.

## General Remarks on the Weather over Europe during the 24 hours ended 8 a.m. June 22<sup>nd</sup> 1890.

Weather fine in the east, north, and south of Great Britain, as well as in Sweden, Denmark, France, and the whole of Southern and Eastern Europe. Dull elsewhere, with rain at Kuopio, Christianund, and Kiev, and passing showers at Malin Head. Rain falling later in all but the extreme southern parts of the United Kingdom, and thunderstorms occurring in Poland, South Germany, and Central France.

Temperature highest 75° at Barcelona, 78° at Algiers, 75° at Trieste, 74° at Brindisi, and 73° at Leghorn, La Caille, and Tunis; above 60° in Sweden and Lapland, and as high as 70° at Krasnodar. Lowest 47° at Kuopio, 50° at Archangel, and 51° at Moscow and Sumburgh Head. Thermometer rising during day to 70° or a little more at some of the English stations, and to 80° or more in all parts of Southern Europe, the highest reading of all being 95° at Leghorn, and 91° at Cape Beann.

Wind light or moderate from the NW or SW in nearly all parts of the United Kingdom, as well as over Norway, Denmark, and the greater part of Russia and Central Europe. Light from the NW over the Channel and north of France, moderate from the NW or NE in Portugal, variable over Italy, Algeria, and the south of France. Moderate NW breezes setting in later at nearly all the French stations.

Barometer highest, 30.1 in. and upwards, in a large anticyclone covering the Bay of Biscay, France, Italy, the southern part of our Islands and Germany, and the north of Spain. Lowest 29.7 in. and less, in a shallow depression lying over Northern Russia, and also (apparently) in another system lying to the westward of Norway. Small and very shallow disturbance appearing later over the southeast of England.

## EXPLANATION OF COLUMNS GIVEN ON PAGE 1.

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

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

The evening observations are taken at 6 p.m. in France and our Islands with the exception of Oxford, where they are taken at 8 p.m. In Sweden and Denmark the observations are taken at 3 p.m. (Christiania time).

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



# DAILY WEATHER REPORT.

for *Thursday, 26<sup>th</sup> June, 1890.*  
 Issued by the Meteorological Office, 63, Victoria Street, London. R. H. SCOTT, Secretary.

STATIONS.		YESTERDAY EVENING.					8 A.M. TO DAY.										PAST 24 HOURS.		
		BAROM.	TEMP.	WIND.		Weather.	BAROMETER.		SHADE TEMP.			WIND.		Weather.	Sea.	SHADE TEMP.		Amount of Rainfall.	
		Reading at 32° F. and Sea Level.	Dry.	Dirce.	Force. (0 to 12.)		Reading at 32° F. and Sea Level.	Difference from 8 a.m. yesterday.	Dry.	Wet.	Difference from 8 a.m. yesterday.	Dirce.	Force. (0 to 12.)			Max.	Min.		
SCANDINAVIA.	Haparanda ...	29.77	59	E	4	r	29.65	- .23	58	57	- .11	S	2	0	*	70	52	0.32	
	Hernösand ...	29.71	56	SSW	2	c	29.57	- .14	56	54	- .1	S	4	0	*	70	43	-	
	Stockholm ...	29.83	63	W	2	0	29.73	- .1	61	54	- .6	WSW	4	0	*	73	57	0.12	
	Wisby ...	29.87	62	SSW	4	c	29.80	- .07	58	57	- .1	WSW	6	0	*	70	52	0.04	
	Bodö ...	29.62	64	ESE	2	b	29.45	- .17	60	55	+ .5	ESE	2	r	1	64	?	0.12	
	Christiansund ...	29.41	62	E	2	bc	29.45	+ .04	55	52	- .3	WSW	8	r	3	63	52	0.28	
	Skudesnaes ...	29.85	54	WSW	5	0	29.90	+ .05	54	50	+ .1	NW	4	c	3	?	50	0.08	
	Christiania Fjord (Færd)	29.77	58	WSW	5	c	29.75	- .02	55	51	- .4	W	7	b	5	59	54	-	
	Skagen (The Scaw)	29.84	56	W	4	0	29.85	+ .01	57	51	- .6	NW	5	b	4	63	50	0.04	
	Fanö ...	29.99	56	W	4	0	29.97	- .02	58	55	- .3	WSW	2	c	*	63	54	-	
BRITISH ISLANDS.	Sumburgh Head	29.67	51	WNW	7	c	29.85	+ .18	51	50	- .1	W	1	c	4	54	47	0.07	
	Stornoway ...	29.90	55	W	4	c	29.85	- .05	55	54	- .1	S	3	0	3	57	47	0.02	
	Wick ...	29.95	55	NW	5	bc	29.89	- .06	55	51	- .4	SW	1	c	1	58	42	0.02	
	Nairn ...	29.91	57	W	3	c	29.90	- .01	55	52	- .3	Z	0	c	0	61	45	-	
	Aberdeen ...	29.92	59	WNW	3	bc	29.93	+ .01	55	49	- .6	ESE	1	c	1	66	44	-	
	Leith ...	29.97	60	W	3	bc	29.93	- .04	56	51	- .5	W	1	bc	*	64	42	-	
	Shields ...	29.98	64	W	3	c	29.94	- .04	55	50	- .5	NE	1	c	2	65	46	0.01	
	Spurn Head ...	30.02	60	W	2	r	29.90	- .12	56	55	- .1	ESE	2	r	2	66	54	0.14	
	York ...	30.03	58	W	1	or	29.92	- .11	55	53	- .2	ESE	1	0	*	63	52	0.04	
	Loughborough	30.05	64	WSW	2	0	29.92	- .13	60	58	- .2	SW	2	odp	*	73	56	0.08	
GERMANY & HOLLAND.	Ardrossan ...	30.00	59	NW	3	bc	29.90	- .10	58	52	- .6	SE	2	c	1	60	44	-	
	Malin Head ...	29.99	57	WNW	3	b	29.86	- .13	54	51	- .3	S	2	bc	1	59	48	0.08	
	Mullaghmore ...	30.03	57	WNW	2	bc	29.88	- .15	56	53	- .3	SW	3	bc	2	58	49	-	
	Belmullet ...	30.05	57	W	1	c	29.88	- .17	57	54	- .3	SSW	1	b	*	59	47	-	
	Donaghadee ...	30.03	57	NE	3	c	29.92	- .11	53	52	- .1	S	3	0	1	66	50	-	
	Liverpool (Bidston)	30.05	54	NW	1	r	29.90	- .15	57	54	- .3	ESE	1	0	2	59	53	0.15	
	Holyhead ...	30.04	58	Z	0	c	29.92	- .12	59	56	- .3	NE	1	bc	1	60	51	0.14	
	Parsonstown ...	30.01	66	Z	0	bc	29.92	- .09	58	54	- .4	Z	0	c	*	67	49	-	
	Valencia ...	30.04	60	NW	2	cv	29.97	- .07	58	55	- .3	W	2	bc	2	65	53	0.01	
	Roche's Point...	30.05	60	SSW	2	bc	29.96	- .09	60	55	- .5	W	2	b	2	63	56	0.25	
FRANCE AND BELGIUM.	Pembroke (St. Ann's Hd.)	30.08	56	SSW	3	b	29.92	- .16	57	57	0	SSW	2	bc	2	58	55	0.25	
	Scilly ...	30.07	59	SW	3	b	29.96	- .11	57	57	0	W	2	bc	3	62	55	0.04	
	Prawle Point...	30.11	56	WNW	2	bc	29.98	- .13	56	56	0	SW	3	bc	2	59	55	0.23	
	Jersey (St. Aubin's)	30.11	73	Z	0	c	30.01	- .10	64	60	- .4	WNW	3	bc	3	74	54	-	
	Hurst Castle ...	30.10	61	SW	3	c	29.98	- .12	58	58	0	SW	1	or	0	61	55	0.10	
	Dungeness ...	30.09	57	WSW	4	b	29.99	- .10	59	57	- .2	WSW	2	bc	1	63	52	-	
	London ...	30.05	69	S	2	c	29.96	- .09	59	58	- .1	SSE	1	r	*	77	58	0.08	
	Oxford ...	30.05	66	WSW	1	0	29.94	- .11	58	57	- .1	S	2	r	*	74	57	0.29	
	Cambridge ...	30.04	70	W	1	0	29.93	- .11	60	59	- .1	SW	1	r	*	77	58	0.34	
	Yarmouth ...	30.04	68	NE	1	b	29.95	- .09	59	58	- .1	SE	2	or	2	75	58	0.24	
PENINSULA.	Cuxhaven ...	30.06	58	W	3	b	30.02	- .04	59	58	- .1	WSW	1	b	*	68	58	-	
	Berlin ...	30.12	64	W	2	bc	30.03	- .09	64	59	- .5	SSW	3	b	*	70	52	-	
	Wiesbaden ...	*	*	*	*	*	30.07	- .13	64	59	- .5	Z	0	b	*	75	52	-	
	Munich ...	30.26	63	Z	0	b	30.15	- .11	65	62	- .3	SE	2	b	*	72	50	-	
	The Helder ...	30.06	58	WSW	1	b	29.95	- .11	60	59	- .1	WSW	1	r	1	63	55	0.04	
	Brussels (9 a.m.)	*	*	*	*	*	30.00	- .17	69	62	- .7	W	1	c	*	78	55	-	
	Cape Gris Nez	?	56	SW	4	m	?	?	61	56	- .5	SSW	1	c	1	63	52	-	
	Paris ...	30.10	78	SSE	2	b	30.03	- .07	66	61	- .5	S	1	b	*	83	55	-	
	Brest ...	30.11	69	N	1	b	30.02	- .09	59	58	- .1	SW	2	0	2	72	50	-	
	Lorient ...	30.11	69	NW	1	b	30.06	- .05	62	60	- .2	WNW	1	b	2	73	59	-	
PENINSULA.	Rochefort ...	30.12	78	WNW	3	b	30.10	- .02	71	68	- .3	ESE	2	b	*	88	59	-	
	Belfort ...	30.13	68	SE	2	b	30.06	- .07	62	50	- .12	NW	1	b	*	84	54	-	
	Lyons ...	30.06	78	NNE	1	b	30.07	- .01	68	61	- .7	SSE	1	b	*	82	57	-	
	Nice ...	30.07	70	SW	3	b	30.11	+ .05	69	65	- .4	Z	0	b	0	81	61	-	
	Perpignan ...	30.05	72	NE	2	bc	30.08	+ .03	73	69	- .4	ESE	2	c	*	81	59	-	
	Biarritz ...	29.98	67	NE	3	bc	30.07	+ .01	71	67	- .4	SSW	2	b	2	90	66	-	
PENINSULA.	Corunna ...	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	
	Lisbon ...	30.07	75	WNW	3	b	30.12	+ .05	70	64	- .6	Z	0	b	?	84	63	-	



# WEATHER CHARTS

for 8 a.m. on

Thursday, 26<sup>th</sup> June

## BAROMETER, WIND AND SEA,

### EXPLANATION OF MAP.

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

Changes since previous morning are stated in words.

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

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

→ = forces 5 to 7; → = forces 1 to 4.

○ = dead calm.

**SEA DISTURBANCE**—Where considerable, is shown thus:

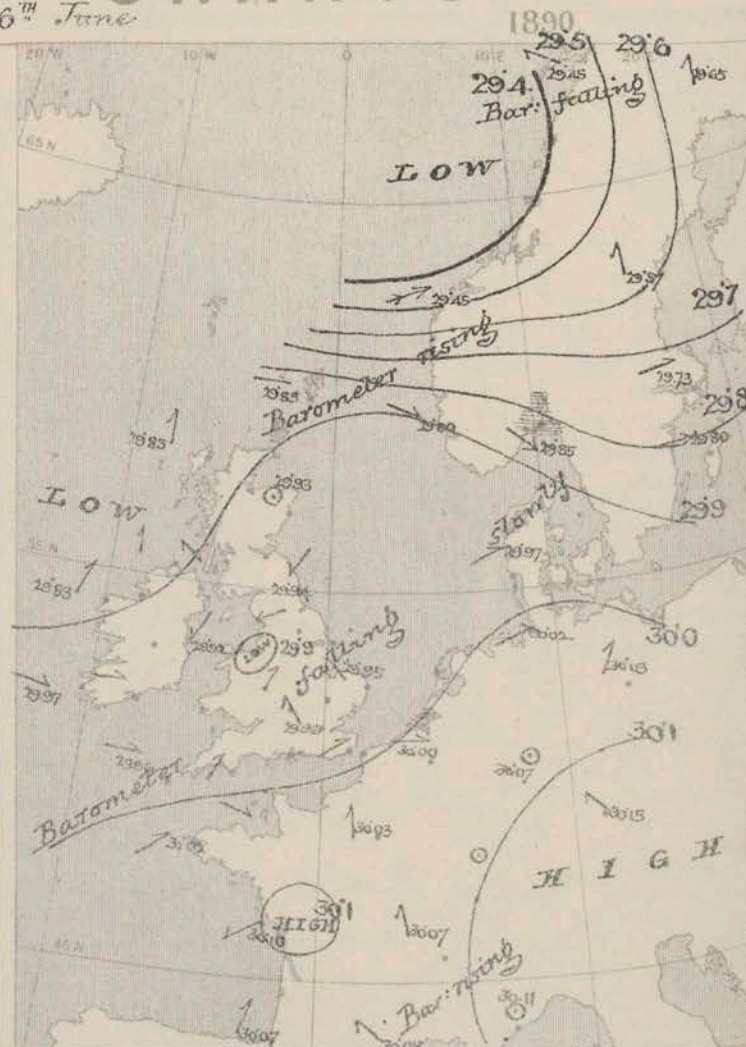
▨ = Rough. ▨ = High.

## MEAN HEIGHT OF THE BAROMETER

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

During the 15 Years: 1871—1885.

STATIONS.	MEAN READINGS.
Sumburgh Head .....	29.862
Stornoway .....	29.852
Wick .....	29.871
Nairn .....	29.880
Aberdeen .....	29.890
Leith .....	29.904
Shields .....	29.928
York .....	29.940
Loughborough .....	29.958
Ardrossan .....	29.909
Donaghadee .....	29.920
Holyhead .....	29.944
Liverpool .....	29.944
Parsonstown .....	29.952
Valencia .....	29.954
Roche's Point .....	29.952
Pembroke .....	29.952
Silly .....	29.952
Jersey .....	29.994
Hurst Castle .....	29.981
Dover .....	29.971
LONDON .....	29.976
Oxford .....	29.964
Cambridge .....	29.967
Yarmouth .....	29.963



## 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.

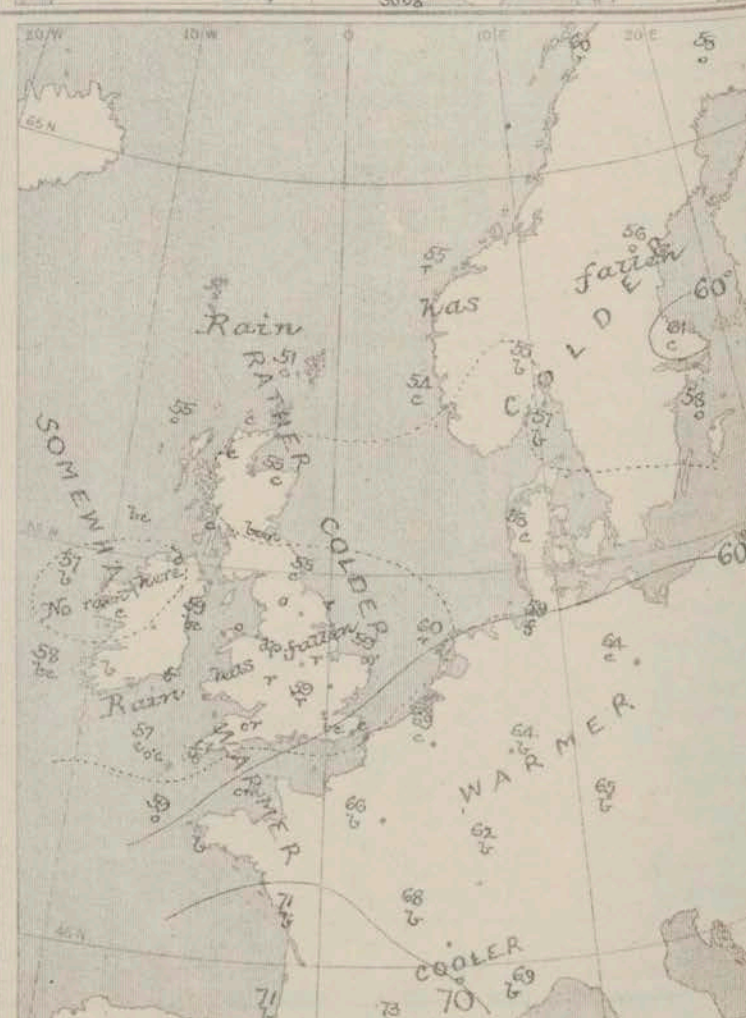
**RAINFALL**—A dotted line separates the districts in which rain has fallen from those where there has been none. Falls of 0.5 in. or more are quoted in figures.

### MEANS OF TEMPERATURE IN SHADE, AND RAINFALL.

(For the month of June.)

STATIONS.	TEMPERATURE.				RAINFALL (Inches.)
	Daily Max.	Daily Min.	Dry 5 P.M.	Wet	
Sumburgh Head.....	54.5	45.1	50.4	48.7	2.07
Stornoway .....	57.0	46.0	53.3	51.0	2.99
Wick .....	58.8	45.7	53.1	50.4	1.75
Nairn .....	62.1	48.0	51.2	50.4	1.88
Aberdeen .....	61.5	47.6	51.7	50.0	1.88
Leith .....	64.5	48.1	50.0	52.5	1.84
Shields .....	60.0	49.1	54.9	51.9	1.82
York .....	66.2	48.3	56.1	52.7	2.45
Loughborough .....	68.7	49.0	58.1	54.1	2.43
Ardrossan .....	62.0	49.7	55.1	52.0	2.62
Donaghadee .....	60.0	48.9	55.0	52.8	2.04
Holyhead .....	61.7	51.0	55.6	53.1	2.10
Liverpool .....	63.6	50.9	56.6	52.6	1.96
Parsonstown .....	64.0	48.2	55.8	52.2	2.46
Valencia .....	61.7	50.7	50.8	53.6	3.42
Roche's Point .....	64.8	50.8	50.5	53.3	3.26
Pembroke .....	60.3	51.1	55.0	52.9	2.09
Silly .....	61.1	53.0	57.2	55.0	1.94
Jersey .....	64.8	52.0	58.7	55.9	1.83
Hurst Castle .....	63.0	51.9	57.6	55.4	2.07
Dover .....	63.3	53.1	58.0	55.1	1.72
LONDON .....	69.3	50.6	50.2	54.8	2.12
Oxford .....	67.1	49.4	56.9	53.4	2.28
Cambridge .....	68.8	48.5	58.0	54.7	2.49
Yarmouth .....	62.2	51.4	58.9	54.1	2.02

**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, 30.1 ins. and upwards, in an anticyclone lying over South Germany and the southwest of France, and also in smaller systems lying respectively over Bohemia and the N. of France.  
 Lowest, 29.4 ins. and less, in a depression lying off the west of Norway.

Gradients rather steep over the southwest of Norway, but slight elsewhere.

Barometer rising in the west of Norway and the extreme north of Scotland, but falling in nearly all other parts of Western Europe.

### TEMPERATURE

Highest, 73° at Perpignan, 71° at Rockport and Trinity, 70° at Lisbon, 69° at Nice, and 68° at Lyons.

Lowest, 51° at Sumburgh Head, 53° at Donaghadee, and 54° at Stadenæs and Malin Head.

The highest maxima registered over our islands yesterday were 77° in London and at Cambridge, and 75° at Yarmouth.

### WIND

Strong to a gale from W<sup>nd</sup> in Norway; light from the same quarter in the south of Ireland.

Light from the S<sup>nd</sup> on our extreme northwest coast, and from the SW<sup>nd</sup> in Denmark, the Netherlands, and south of England.

Light from the S<sup>nd</sup> in Germany and France.

### WEATHER

Fair over the greater part of England and also in the west of Norway; foggy in the southwest of England, and at the mouth of the Elbe.  
 Fine in nearly all other parts of Western Europe.

Since yesterday morning rain has fallen at most of our stations.

### SEA

Slight or smooth generally, but rather rough at Færevær.

### PROBABLE CHANGES IN SYSTEM NOW PREVALENT

As the shallow depression over England moves away to the eastward the weather will probably undergo some improvement. The general appearance is, however, decidedly unsettled.

## FORECASTS

For the 24 hours ending at NOON on 27<sup>th</sup> JUNE 1890.

### DISTRICTS.

### FORECASTS.

- |   |                  |   |
|---|------------------|---|
| 0 | SCOTLAND NORTH   | SW <sup>nd</sup> winds, light; cloudy, some showers.                                |
| 1 | SCOTLAND EAST    |   |
| 2 | ENGLAND N.E.     | Light variable breezes; changeable, rain locally.                                   |
| 3 | ENGLAND EAST     |   |
| 4 | MIDLAND COUNTIES | SW <sup>nd</sup> winds, light; some rain at first; but improving temporarily later. |
| 5 | ENGLAND SOUTH    |   |

### DISTRICTS.

### FORECASTS.

- |    |               |   |
|----|---------------|---|
| 6  | SCOTLAND WEST | Same as N <sup>os</sup> 1 and 2.  |
| 7  | ENGLAND N.W.  |   |
| 8  | ENGLAND S.W.  | SW <sup>nd</sup> winds, light; fair generally, but local fogs.                    |
| 9  | IRELAND NORTH |   |
| 10 | IRELAND SOUTH | SW <sup>nd</sup> and W <sup>nd</sup> winds, moderate; fair to dull and some rain. |

### WARNINGS

NONE ISSUED

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



# YESTERDAY'S 2 P.M. REPORTS.

	BAR:	THER:		WIND		WEA.	SEA		BAR:	THER:		WIND		WEA.	SEA
		D.	W.	D.	F.					D.	W.	D.	F.		
Skudesnaes ...	29.78	58	54	SSW	7	0	5		Holyhead ...	30.06	54	53	WNW	1	rgm
Sumburgh Head ...	29.45	50	49	W	0	r	8		Valencia ...	30.06	65	60	W	1	bc
Stornoway ...	29.83	56	56	W	5	c	5		Scilly ...	30.11	61	59	SSW	3	0
Aberdeen ...	29.86	64	53	WSW	4	bcq	3		Jersey ...	30.15	67	62	2	0	0
Shields ...	29.97	61	56	W	3	c	2		Dungeness ...	30.12	58	56	WSW	4	bc
Ardrossan ...	29.97	59	53	W	3	c	2		London ...	30.10	75	65	W	2	bc
Malin Head ...	29.99	58	53	W	4	b	2		Yarmouth ...	30.05	75	65	WSW	2	b
Mullaghmore ...	30.04	58	54	WNW	3	bv	2		Rocheport ...	30.16	81	74	WNW	3	b
Belmullet ...	30.05	59	54	WNW	2	bc	*								*

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

Weather fine generally over the Netherlands, France, and the Mediterranean, as well as in many parts of Spain; unsettled elsewhere, with rain in several parts of Ireland, Norway and Russia, much fog throughout the English Channel, thunder at Biarritz. Rain takes in many parts of the British Islands (heavy at Scilly, and considerable over the southeast of England) but weather over France and Germany fair as a whole.

Temperatures changing irregularly. Morning readings as high as 81° at Bilbao and Nice, and exceeding 70° at nearly all the Mediterranean stations and Constantinople. Exceeding 60° over Russia and many parts of France and England, lower elsewhere; as low as 50° at Stornoway, 51° at Münster, 53° at Malin Head, Skudesnaes, and Archangel. Rising to between 70° and 77° over England later, to upwards of 80° in several parts of France and Spain, and to 90° at Biarritz.

Wind as a whole, light; E<sup>ly</sup> over the Mediterranean and west of France, W<sup>ly</sup> and SW<sup>ly</sup> over Ireland, England, and the southern parts of the North Sea, NW<sup>ly</sup> to N<sup>ly</sup> over Central Europe. Severe W<sup>ly</sup> gale, however, prevailing in the extreme north of Scotland, but not felt south of the Firth of Clyde. Gale afterwards spreading to the Shetland Islands, with great force, while E<sup>ly</sup> airs were felt in northwest of Norway.

Barometer highest 30.0 ins. to 30.2 ins. and more in a large, but not well formed anticyclone covering the southern parts of Ireland and England, and the whole of Spain, the Mediterranean, France, and Germany; lowest 29.3 ins. and less, in a rather small but deep and well-defined depression lying near the Shetland Islands. Depression moving northwards later, and barometer rising fast in Scotland, falling slightly over Ireland and 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).

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# DAILY WEATHER REPORT.

for FRIDAY, 27<sup>TH</sup> JUNE, 1890.  
 Issued by the Meteorological Office, 63, Victoria Street, London. R. H. SCOTT, Secretary.

STATIONS.		YESTERDAY EVENING.					8 A.M. TO DAY.										PAST 24 HOURS.		
		BAROM.  Reading at 32° F. and Sea Level.	TEMP.  Dry.	WIND.		Weather.	BAROMETER.		SHADE TEMP.			WIND.		Weather.	Sea. (0 to 3.)	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 ...	29.55	57	2	0	C	29.55	-0.01	56	56	-2	2	0	T	*	68	54	0.35	
	Hernösand ...	29.60	57	NW	4	C	29.63	+0.6	57	57	+2	NW	2	b	*	72	52	0.16	
	Stockholm ...	29.67	60	WdW	2	b	29.63	-1.10	63	55	+2	WdW	2	b	*	70	54	-	
	Wisby ...	29.74	60	WdW	4	b	29.67	-1.13	58	53	0	NW	4	b	*	68	54	-	
	Bodö ...	29.51	57	2	0	C	29.62	+1.7	50	49	-10	W	1	0	1	61	48	0.32	
	Christiansund	29.74	50	WdW	6	r	29.68	+2.3	53	47	-2	W	3	C	2	?	48	0.35	
	Skudesnaes ...	29.81	54	NW	3	b	29.64	-2.6	54	51	0	NW	4	C	3	59	45	-	
	Christiania Fjord (Færd)	29.66	61	WdW	5	b	29.61	-1.14	56	53	+1	N	3	b	2	63	53	-	
	Skagen (The Scaw)	29.73	54	W	3	b	29.63	-2.2	56	53	-1	WdW	1	b	1	66	46	-	
	Fanö ...	29.78	54	2	0	C	29.63	-3.4	56	56	-2	S	3	0	*	79	54	0.04	
BRITISH ISLANDS.	Sumburgh Head	29.80	54	2	0	C	29.65	-2.0	52	50	+1	NE	1	C	3	57	43	-	
	Stornoway ...	29.72	52	S	3	C	29.60	-2.5	53	52	-2	NW	2	b	2	57	45	0.04	
	Wick ...	29.75	53	S	3	0	29.58	-3.1	51	51	-4	NE	2	0	1	60	49	0.04	
	Nairn ...	29.72	53	2	0	C	29.60	-3.0	49	49	-6	W	1	0	0	63	44	0.29	
	Aberdeen ...	29.78	53	SE	2	C	29.58	-3.5	51	50	-4	NW	1	0	1	57	48	0.04	
	Leith ...	29.78	53	NNE	1	r	29.60	-2.3	53	50	-1	W	2	C	*	64	42	0.01	
	Shields ...	29.78	57	SE	3	C	29.63	-3.1	53	50	-2	WdW	3	C	2	60	49	0.07	
	Spurn Head ...	29.79	57	N	3	C	29.70	-2.0	57	53	+1	WdW	4	b	3	62	52	0.02	
	York ...	29.80	62	E	1	b	29.69	-2.3	57	52	+2	W	3	b	*	64	50	0.02	
	Loughborough	29.82	70	NW	3	b	29.78	-1.4	60	54	0	W	4	b	*	74	52	-	
GERMANY & HOLLAND.	Ardrossan ...	29.76	56	W	2	C	29.59	-3.1	53	50	-5	W	4	C	3	61	48	0.15	
	Malin Head ...	29.74	53	W	4	0	29.61	-2.5	57	49	-3	NW	4	b	2	60	48	0.18	
	Mullaghmore ...	?	?	?	?	?	29.70	-1.8	53	50	-3	NW	6	b	4	60	49	0.15	
	Belmullet ...	29.80	55	WdW	3	b	29.75	-1.3	54	50	-3	NW	2	b	*	59	50	0.26	
	Donaghadee ...	29.78	59	WdW	3	C	29.64	-2.8	53	52	+2	W	4	b	2	61	51	0.09	
	Liverpool (Bidston)	29.83	61	NW	2	C	29.72	-1.8	53	50	-2	WdW	5	C	4	66	52	0.05	
	Holyhead ...	29.84	59	W	2	C	29.75	-1.7	54	50	-5	W	5	C	5	65	50	0.04	
	Parsonstown ...	29.86	58	2	0	C	29.76	-1.6	53	53	-3	WdW	2	b	*	65	48	0.04	
	Valencia ...	29.94	58	W	5	C	29.91	-0.6	57	54	-1	NW	5	b	3	61	50	0.14	
	Roche's Point...	29.92	62	WdW	4	b	29.87	-0.9	57	52	-3	NW	4	b	4	65	51	-	
FRANCE AND BELGIUM.	Pembroke (St. Ann's Hd.)	29.91	57	WdW	3	b	29.85	-0.7	53	52	-2	WdW	5	b	4	59	51	-	
	Scilly ...	29.95	60	NW	3	b	29.95	-0.1	58	54	+1	NW	5	b	2	62	56	-	
	Prawle Point ...	29.95	60	WdW	3	b	29.91	-0.7	53	53	+3	W	4	C	3	62	51	0.13	
	Jersey (St. Aubin's)	29.99	60	W	3	0	29.98	-0.3	59	53	-5	NW	4	b	3	64	54	0.06	
	Hurst Castle ...	29.91	61	WdW	4	b	29.89	-0.9	59	56	+1	WdW	4	b	3	62	54	0.16	
	Dungeness ...	29.89	57	WdW	5	0	29.82	-1.7	56	54	-3	W	5	b	3	61	51	0.08	
	London ...	29.86	67	WdW	2	b	29.83	-1.3	58	54	-1	WdW	3	0	*	67	49	0.10	
	Oxford ...	29.85	60	W	5	b	29.81	-1.3	57	53	-1	WdW	4	C	*	70	50	0.07	
	Cambridge ...	29.82	70	W	2	b	29.78	-1.5	61	54	+1	W	2	b	*	71	49	0.03	
	Yarmouth ...	29.81	68	WdW	2	b	29.74	-2.1	60	57	+1	NW	3	b	2	68	54	0.11	
PENINSULA.	Cuxhaven ...	29.90	59	S	1	r	29.72	-3.0	53	58	0	W	2	0	*	62	57	0.28	
	Berlin ...	29.89	62	NW	2	r	29.75	-2.8	61	60	-3	W	3	0	*	75	59	0.59	
	Wiesbaden ...	*	*	*	*	*	29.84	-2.3	64	62	0	2	0	r	*	82	63	0.24	
	Munich ...	30.03	72	W	3	b	29.95	-2.0	67	62	+2	W	3	0	*	81	61	-	
	The Helder ...	29.82	59	W	2	C	29.71	-2.4	58	57	-2	WdW	1	C	1	63	57	0.20	
	Brussels (a.m.)	*	*	*	*	*	29.82	-1.8	60	55	-5	WdW	2	C	*	78	55	0.39	
	Cape Gris Nez	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	
	Paris ...	29.91	82	W	2	0	29.95	-0.8	59	57	-7	WdW	2	0	*	?	58	0.12	
	Brest ...	30.01	59	N	2	0	29.98	-0.4	58	56	-1	NW	2	b	2	72	58	-	
	Lorient ...	30.04	61	WdW	3	m	30.03	-0.3	56	54	-6	N	2	b	2	68	53	0.04	
FRANCE AND BELGIUM.	Rocheport ...	30.09	77	NW	4	b	30.08	-0.2	63	62	-8	WdW	3	0	*	81	59	-	
	Belfort ...	30.20	67	W	1	C	29.94	-1.2	65	53	+3	W	1	C	*	84	53	0.24	
	Lyons ...	30.03	78	WdW	3	b	29.97	-1.0	70	63	+2	WdW	1	b	*	89	62	0.12	
	Nice ...	30.05	70	WdW	4	b	29.99	-1.2	69	65	0	W	1	b	*	81	63	-	
	Perpignan ...	30.05	77	E	2	b	29.99	-0.9	74	69	+1	2	0	b	*	77	60	-	
	Biarritz ...	30.10	68	W	4	0	30.08	-0.1	66	63	-5	NW	4	0	2	75	64	-	
	Corunna ...	30.10	69	N	4	b	30.08	-0.4	67	62	-3	N	3	b	5	82	63	-	
PENINSULA.	Lisbon ...	30.10	69	N	4	b	30.08	-0.4	67	62	-3	N	3	b	5	82	63	-	

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

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



# WEATHER CHARTS

for 8 a.m. on

Friday, 27<sup>th</sup> June.

1890.

## BAROMETER, WIND AND SEA.

### EXPLANATION OF MAP.

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

Changes since previous morning are stated in words.

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

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

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

○ = dead calm.

**SEA DISTURBANCE**—Where considerable, is shown thus:

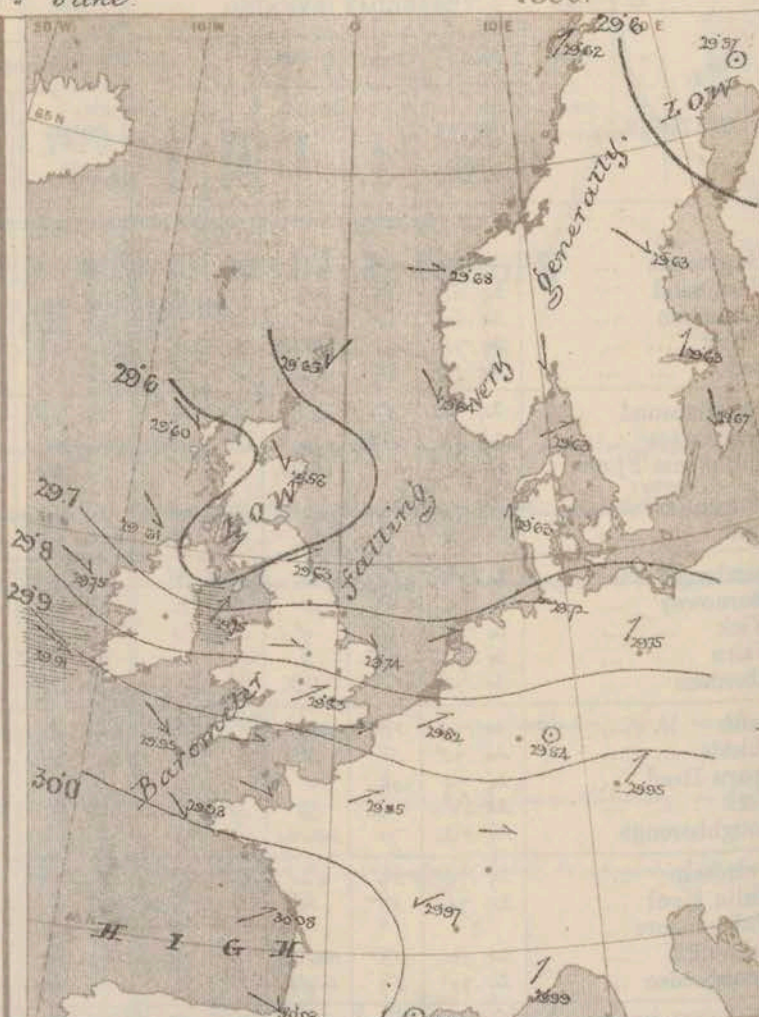
▨ = Rough. ▨ = High.

## MEAN HEIGHT OF THE BAROMETER

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

During the 15 Years: 1871—1885.

STATIONS.	MEAN READINGS.
Sumburgh Head .....	29.862
Stornoway .....	29.853
Wick .....	29.874
Nairn .....	29.880
Aberdeen .....	29.890
Leith .....	29.904
Shields .....	29.928
York .....	29.949
Loughborough .....	29.958
Ardrossan .....	29.909
Donaghadee .....	29.920
Holyhead .....	29.944
Liverpool .....	29.944
Parsonstown .....	29.952
Valencia .....	29.954
Roche's Point .....	29.962
Pembroke .....	29.952
Scilly .....	29.982
Jersey .....	29.994
Hurst Castle .....	29.981
Dover .....	29.971
LONDON .....	29.976
Oxford .....	29.964
Cambridge .....	29.967
Yarmouth .....	29.963



## 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.

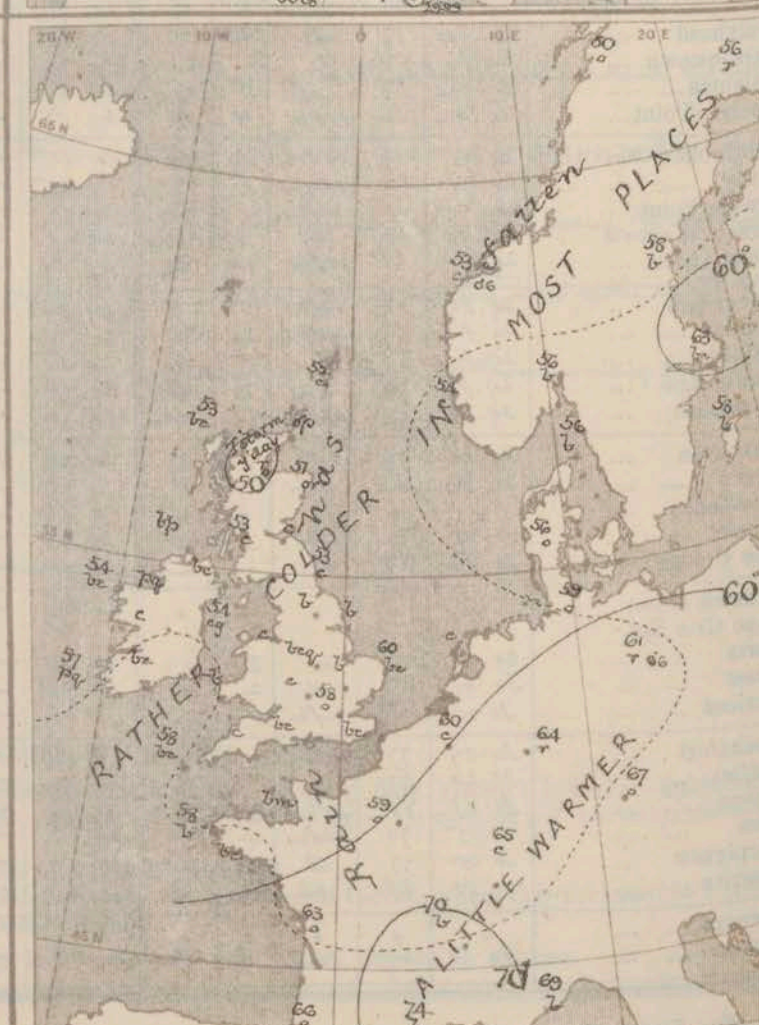
**RAINFALL**—A dotted line separates the districts in which rain has fallen from those where there has been none. Falls of 0.5 in. or more are quoted in figures.

### MEANS OF TEMPERATURE IN SHADE, AND RAINFALL.

(For the month of June.)

STATIONS.	TEMPERATURE.				RAINFALL (Inches.)
	Daily Max.	Daily Min.	at 8 a.m. Dry.	Wet.	
Sumburgh Head .....	54.5	45.1	50.4	48.7	2.07
Stornoway .....	57.6	46.0	53.3	51.0	2.99
Wick .....	58.8	45.7	53.1	50.4	1.75
Nairn .....	62.1	48.0	54.2	50.4	1.88
Aberdeen .....	61.3	47.5	54.7	50.9	1.88
Leith .....	64.5	48.1	56.0	52.5	1.84
Shields .....	60.9	40.1	54.9	51.9	1.82
York .....	66.2	48.3	56.1	52.7	2.45
Loughborough .....	68.7	49.0	58.1	54.1	2.43
Ardrossan .....	62.0	49.7	55.1	52.0	2.62
Donaghadee .....	60.9	48.9	55.0	52.8	2.04
Holyhead .....	61.7	51.6	55.6	53.1	2.10
Liverpool .....	63.6	50.9	56.6	52.6	1.96
Parsonstown .....	64.0	48.2	55.8	52.2	2.40
Valencia .....	61.7	50.7	56.8	53.8	3.42
Roche's Point .....	64.8	50.8	56.6	53.3	3.26
Pembroke .....	60.5	51.4	55.0	52.9	2.09
Scilly .....	61.1	53.0	57.2	55.0	1.94
Jersey .....	64.8	52.6	58.7	55.9	1.83
Hurst Castle .....	63.9	51.9	57.6	55.4	2.07
Dover .....	63.3	53.1	58.6	55.1	1.72
LONDON .....	69.3	50.6	59.2	54.8	2.12
Oxford .....	67.1	49.4	56.9	53.4	2.28
Cambridge .....	68.8	48.5	58.0	54.7	2.44
Yarmouth .....	62.2	51.4	56.9	54.1	2.02

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





## GENERAL SITUATION AT 8 A.M.

### PRESSURE

Highest, 30.0 in: and upwards, over the Bay of Biscay, Spain, and the western part of France.  
 Lowest, 29.6 in: and less, in an irregularly formed depression lying over Scotland, and also in another system over the south of Sweden.  
 Gradients slight generally. Barometer falling at nearly all stations.

### TEMPERATURE

Highest, 74° at Perpignan, 70° at Lyons, 69° at Nice, 67° at Munich and Lisbon, and 66° at Biarritz.  
 Lowest, 43° at Nain, 50° at Porto, 51° at Wick, Aberdeen, and Malin Head, and 52° at Lumburg, Had.  
 The highest maxima registered over our Islands yesterday were 74° at Loughborough, and 71° at Cambridge.

### WIND

Moderate to fresh from the West over England and Ireland, and light from the same quarter at most of the French stations.  
 N. in the north and east of Scotland and also in the south of Norway.

### WEATHER

Fine over the greater part of England, as well as in Sweden, the north of Denmark, and the north of France.  
 Cloudy, or overcast elsewhere, with rain in Germany and the east of Scotland, as well as at Copenhagen, and passing showers at some of the Irish stations.  
 A little rain fell yesterday in most parts of Western Europe, and a thunderstorm occurred at Nain in the evening.

### SEA

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

### PROBABLE CHANGES IN SYSTEM NOW PREVALENT

The shallow depression over Scotland seems likely to move eastwards to the North Sea, and some temporary improvement in the weather will probably take place on our western and northern coasts. Over England, however, the conditions are likely to remain unsettled and showery.

## FORECASTS

For the 24 hours ending at NOON on 28<sup>th</sup> JUNE 1890.

### DISTRICTS.

### FORECASTS.

0	SCOTLAND NORTH	light or moderate breezes, chiefly NW <sup>ly</sup> ; dull and rainy at first, but improving later.
1	SCOTLAND EAST	
2	ENGLAND N.E.	Same as N°5
3	ENGLAND EAST	
4	MIDLAND COUNTIES	
5	ENGLAND SOUTH	W <sup>ly</sup> winds, moderate or fresh; some showers with bright intervals.

### DISTRICTS.

### FORECASTS.

6	SCOTLAND WEST	SW <sup>ly</sup> to W <sup>ly</sup> winds, fresh; changeable, some showers.
7	ENGLAND N.W.	
8	ENGLAND S.W.	W <sup>ly</sup> to NW <sup>ly</sup> winds, fresh or strong; changeable, some showers.
9	IRELAND NORTH	
10	IRELAND SOUTH	

### WARNINGS

NONE ISSUED.

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



# YESTERDAY'S 2 P.M. REPORTS.

	BAR:	THER:		WIND		WEA	SEA		BAR:	THER:		WIND		WEA	SEA
		D.	W.	D.	F.					D.	W.	D.	F.		
Skudesnaes ...	29.07	59	53	WNW	2	C	3		Holyhead ...	29.88	63	57	SW	3	2
Sumburgh Head ...	29.84	55	51	2	0	C	3		Valencia ...	29.97	61	55	W	4	4
Stornoway ...	29.78	56	54	2	3	C	3		Scilly ...	29.96	61	59	WNW	3	2
Aberdeen ...	29.85	56	52	E	3	C	2		Jersey ...	30.01	60	58	WNW	4	3
Shields ...	29.84	60	56	NW	1	C	2		Dungeness ...	29.93	59	58	WNW	4	2
Ardrossan ...	29.83	56	52	SW	2	0	2		London ...	29.89	63	61	WNW	2	8
Malin Head ...	29.79	60	56	W	3	C	2		Yarmouth ...	29.86	63	60	WNW	3	2
Mullaghmore ...	29.75	59	55	W	3	C	2		Rochefort ...	30.11	77	73	NW	4	2
Belmullet ...	29.85	52	51	WNW	2	T	*								

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

Weather fine and bright over Spain, and the southern and eastern parts of the Mediterranean, as well as in many parts of France and South Germany; very changeable and unsettled elsewhere — rain over Southern Russia, Norway, and a great many parts of England. Rain falling very generally later except in the south of France and on our southwest coasts, amounts considerable to the eastward of the North Sea, thunderstorms occurring at Lyons and also at Naurin.

Temperature changing little and irregularly; morning readings exceeding 80° at some Algerian stations, and exceeding 70° over Spain, the Mediterranean and Adriatic. Exceeding 60° at many of the French, German and Russian stations, lower elsewhere. Lowest readings 51° at Sumburgh Hd., 54° at Skudesnaes and Malin Hd. and 55° at Christiansund, Faerøer, and in many parts of Scotland. Rising during the day to between 80° and 90° over France and South Germany, and to 70° and more in many parts of England.

Wind very variable over Spain, the Mediterranean, France, and Germany, chiefly SW over the United Kingdom. Cyclonic circulation (with W. gales) over Scandinavia and the Baltic, another one of light winds over Southern Russia. Not much change later.

Barometer highest, 30.0 ins: to nearly 30.2 ins: in a complex system covering Southwestern and Central Europe, and exceeding 29.9 ins: over the northeast of Russia; lowest, 29.5 ins: and less, in a depression off the northwest of Norway, about 29.6 ins: over Southern Russia, and apparently about 29.8 ins: in a new complex disturbance approaching the west of Scotland. Norwegian depression forming quickly to the northeastward later, that off our northwest coasts spreading southeastwards over the United Kingdom.

### EXPLANATION OF COLUMNS GIVEN ON PAGE 1.

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

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

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

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



# DAILY WEATHER REPORT.

for *Saturday, 28<sup>th</sup> June, 1890.*  
*Issued by the Meteorological Office, 63, Victoria Street, London. R. H. SCOTT, Secretary.*

STATIONS.		YESTERDAY EVENING.					8 A.M. TO DAY.										PAST 24 HOURS.		
		Barom. Reading at 32° F. and Sea Level.	TEMP. Dry.	WIND.		Weather.	BAROMETER.		SHADE TEMP.			WIND.		Weather.	Sea. (0 to 1.)	SHADE TEMP.		Amount of Rainfall.	
				Dir.	Force. (0 to 12.)		Reading at 32° F. and Sea Level.	Difference from 8 a.m. yesterday.	Dry.	Wet.	Difference from 8 a.m. yesterday.	Dir.	Force. (0 to 12.)			Max.	Min.		
SCANDINAVIA.	Haparanda ...	29.57	60	Z	0	6	29.59	+ 0.2	63	60	+ 7	Z	0	6c	*	68	52		
	Hernösand ...	29.59	57	SSW	4	6	29.58	- 0.5	58	53	0	S	4	6	*	72	48		
	Stockholm ...	29.59	56	S	2	6	29.49	- 1.4	57	52	- 6	ENE	4	0	*	72	55		
	Wisby ...	29.58	57	S	2	6	29.56	- 1.1	53	54	0	WSW	6	6c	*	66	54	0.28	
	Bodö ...	29.62	53	Z	0	6	29.62	- 0.0	59	52	+ 9	ENE	2	6	1	?	48		
	Christiansund	29.63	55	N	3	c	29.57	- 1.1	53	49	0	NNE	3	0	3	55	48		
	Skudesnaes ...	29.51	54	NW	7	c	29.58	- 0.6	54	49	0	NW	7	c	4	57	50		
	Christiania Fjord (Fjorder)	29.50	57	Z	0	0	29.40	- 2.1	51	50	- 5	WNW	5	r	1	59	50	1.18	
	Skagen (The Skaw)	29.46	51	NW	4	r	29.45	- 1.8	55	52	- 1	W	6	0	4	61	44	0.32	
	Fanö ...	29.61	54	WSW	6	c	29.57	+ 0.4	57	53	+ 1	W	5	c	*	61	52		
BRITISH ISLANDS.	Sumburgh Head	29.66	52	Z	0	0	29.72	+ 0.7	51	46	- 1	N	2	c	3	55	45	0.01	
	Stornoway ...	29.68	54	NE	4	6c	29.84	+ 2.4	52	51	- 1	NE	3	0	3	56	43	0.03	
	Wick ...	29.66	53	N	2	c	29.78	+ 2.0	54	51	+ 3	N	1	0	1	58	45	0.10	
	Nairn ...	29.65	53	E	1	c	29.81	+ 2.1	51	49	+ 2	ENE	2	0	1	59	47	0.13	
	Aberdeen ...	29.62	50	N	3	op	29.78	+ 2.0	54	49	+ 3	NW	2	c	2	56	44	0.19	
	Leith ...	29.61	60	W	1	6c	29.79	+ 1.9	52	49	- 3	ENE	2	c	*	64	47	0.38	
	Shields ...	29.62	60	N	3	r	29.74	+ 1.1	54	51	+ 1	NW	2	c	2	61	45	0.15	
	Spurn Head ...	29.67	60	WSW	6	6	29.76	+ 0.6	56	53	- 1	WSW	2	6c	2	62	50		
	York ...	29.67	57	W	4	op	29.78	+ 0.9	54	52	- 3	W	2	r	*	62	47	0.05	
	Loughborough	29.75	62	W	3	6	29.80	+ 0.2	57	53	- 3	W	1	om	*	67	44	0.01	
GERMANY & HOLLAND.	Ardrossan ...	29.66	58	WNW	4	6	29.77	+ 1.8	52	50	- 1	NE	2	om	1	60	49		
	Malin Head ...	29.71	55	NW	3	6cp	29.77	+ 1.6	51	50	0	SW	1	op	1	56	50	0.22	
	Mullaghmore ...	29.76	54	W	5	op	29.80	+ 1.0	55	51	+ 2	WNW	1	cv	2	58	47	0.61	
	Belmullet ...	29.79	55	WNW	3	c	29.84	+ 0.9	55	52	+ 1	N	2	c	*	56	48	0.17	
	Donaghadee ...	29.72	55	WNW	2	c	29.78	+ 1.4	56	53	+ 1	NNE	3	6	1	61	53	0.18	
	Liverpool (Bidsdon)	29.75	59	W	4	6	29.77	+ 0.5	55	51	0	W	3	6c	3	60	51	0.01	
	Holyhead ...	29.77	58	SW	3	6	29.78	+ 0.3	62	56	+ 8	WNW	2	6c	2	62	49	0.01	
	Parsonstown ...	29.81	58	WSW	2	6c	29.81	+ 0.5	52	50	- 3	Z	0	0	*	61	44	0.25	
	Valencia ...	29.92	55	W	3	cp	29.89	- 0.2	53	51	- 4	WNW	4	cp	4	60	48	0.48	
	Roche's Point...	29.87	58	NW	5	6c	29.84	- 0.3	55	51	- 2	NW	3	6c	3	63	49		
FRANCE AND BELGIUM.	Pembroke (St. Ann's Hd.)	29.84	57	W	5	6c	29.81	- 0.4	53	51	- 2	WSW	2	6cp	3	59	49	0.03	
	Scilly ...	29.96	59	W	4	c	29.86	- 0.9	56	55	- 2	WNW	4	cp	3	61	53	0.02	
	Prawle Point ...	29.92	57	W	5	c	29.86	- 0.5	55	52	- 4	W	3	6c	2	60	54	0.04	
	Jersey (St. Aubin's)	29.98	60	W	4	6c	29.91	- 0.7	56	54	- 3	WNW	2	ogp	3	63	52	0.13	
	Hurst Castle ...	29.87	61	WSW	6	6c	29.86	- 0.3	60	57	+ 1	SW	4	6c	2	64	54	0.01	
	Dungeness ...	29.81	59	W	6	6c	29.85	+ 0.3	59	55	+ 3	W	3	6c	2	64	55		
	London ...	29.81	62	WSW	3	6c	29.83	0.0	60	54	+ 2	WNW	2	6w	*	66	48	0.06	
	Oxford ...	29.82	56	WSW	3	6	29.83	+ 0.2	54	52	- 3	SW	2	0	*	65	50	0.03	
	Cambridge ...	29.78	62	W	3	6c	29.80	+ 0.2	58	55	- 3	SW	1	0	*	68	55		
	Yarmouth ...	29.73	65	WNW	4	6c	29.81	+ 0.7	58	54	- 2	WSW	1	6	2	65	48	0.01	
PENINSULA.	Cuxhaven ...	29.70	57	W	3	6c	29.74	+ 0.2	57	56	- 2	WSW	4	c	*	65	56		
	Berlin ...	29.74	64	WNW	4	c	29.86	+ 1.1	62	57	+ 1	WSW	4	6	*	73	54	0.04	
	Wiesbaden ...	*	*	*	*	*	29.93	+ 0.9	60	54	- 4	NW	2	6c	*	72	54	0.71	
	Munich ...	29.98	61	Z	0	c	29.97	+ 0.2	63	62	- 4	SE	2	c	*	75	59	0.67	
	The Helder ...	29.74	58	WSW	2	c	29.80	+ 0.9	58	54	0	WSW	2	6c	3	63	55		
	Brussels (a.m.)	*	*	*	*	*	29.89	+ 0.9	59	55	- 1	WSW	1	6c	*	68	48		
	Cape Gris Nez	?	58	W	6	6	?	?	58	56	?	W	3	6c	3	64	52		
	Paris ...	29.92	67	NW	2	6	29.95	0.0	57	53	- 2	SW	1	0	*	73	53		
	Brest ...	30.00	63	W	1	6	29.93	- 0.5	57	54	- 1	W	2	0	2	72	50		
	Lorient ...	30.02	61	WNW	4	6c	29.96	- 0.7	58	54	+ 2	WNW	2	c	2	63	54		
PENINSULA.	Rocheport ...	30.02	61	WNW	5	6c	30.06	- 0.2	62	56	- 1	NW	3	0	2	64	54		
	Belfort ...	29.91	71	NW	1	6	?	?	62	53	- 3	NW	1	6	*	86	57		
	Lyons ...	29.92	72	WNW	1	c	29.96	- 0.1	64	61	- 6	N	1	0	*	84	63	0.59	
	Nice ...	29.90	71	S	2	6	29.93	- 0.6	69	66	0	NE	2	c	0	77	61		
	Perpignan ...	29.94	78	WNW	2	6c	29.95	- 0.4	72	65	- 2	W	2	c	*	83	64		
	Biarritz ...	30.07	65	NW	3	0	30.00	- 0.8	61	59	- 5	ENE	3	0	2	72	59	0.04	
PENINSULA.	Corunna ...	*	*	*	*	*	30.00	- 1.3	63	61	0	WNW	1	0	2	72	57		
	Lisbon ...	30.04	64	WNW	5	6	30.03	- 0.5	63	59	- 4	WNW	3	6	5	79	59		

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

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



# WEATHER CHARTS

for 8 a.m. on

Saturday, 28<sup>th</sup> June.

1890.

## BAROMETER, WIND AND SEA.

### EXPLANATION OF MAP.

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

Changes since previous morning are stated in words.

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

their barbs and feathers refer to force thus—

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

→ = forces 5 to 7; → = forces 1 to 4.

○ = dead calm.

**SEA DISTURBANCE**—Where considerable, is shown thus:

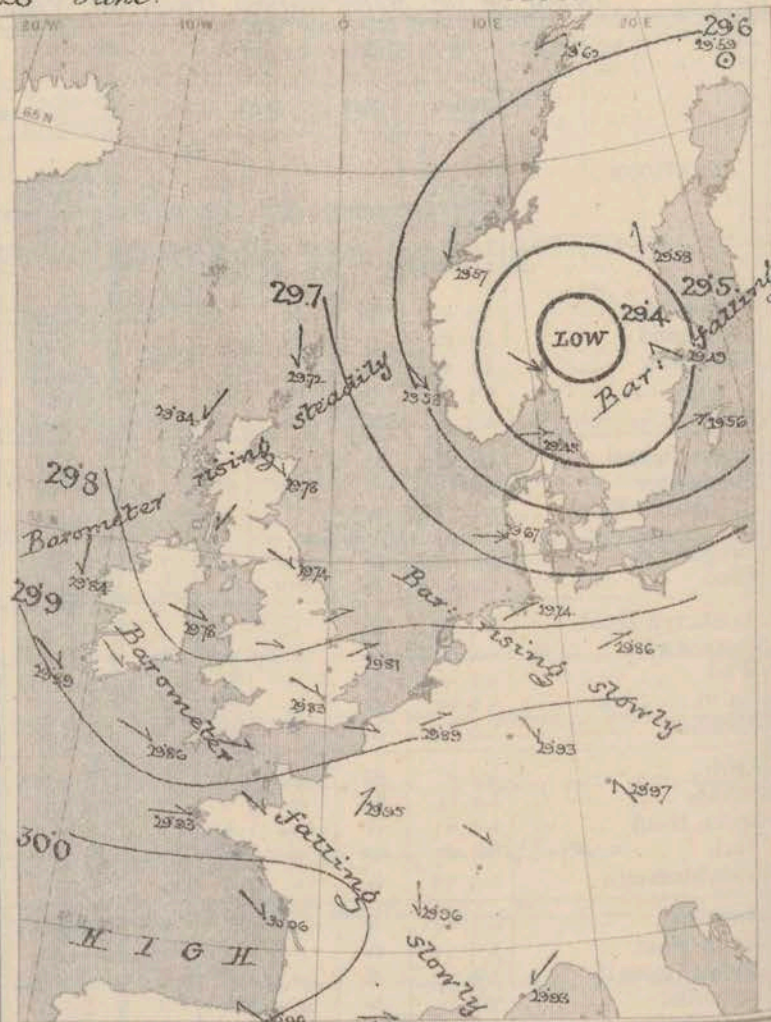
▨ = Rough. ▨ = High.

## MEAN HEIGHT OF THE BAROMETER

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

During the 15 Years: 1871—1885.

STATIONS.	MEAN READINGS.
Sumburgh Head .....	29.862
Stornoway .....	29.852
Wick .....	29.874
Nairn .....	29.880
Aberdeen .....	29.890
Leith .....	29.904
Shields .....	29.928
York .....	29.949
Loughborough .....	29.958
Ardrossan .....	29.909
Donaghadee .....	29.920
Holyhead .....	29.944
Liverpool .....	29.944
Parsonstown .....	29.952
Valencia .....	29.954
Roche's Point .....	29.952
Pembroke .....	29.952
Scilly .....	29.982
Jersey .....	29.994
Hurst Castle .....	29.981
Dover .....	29.971
LONDON .....	29.976
Oxford .....	29.964
Cambridge .....	29.967
Yarmouth .....	29.963



## 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.

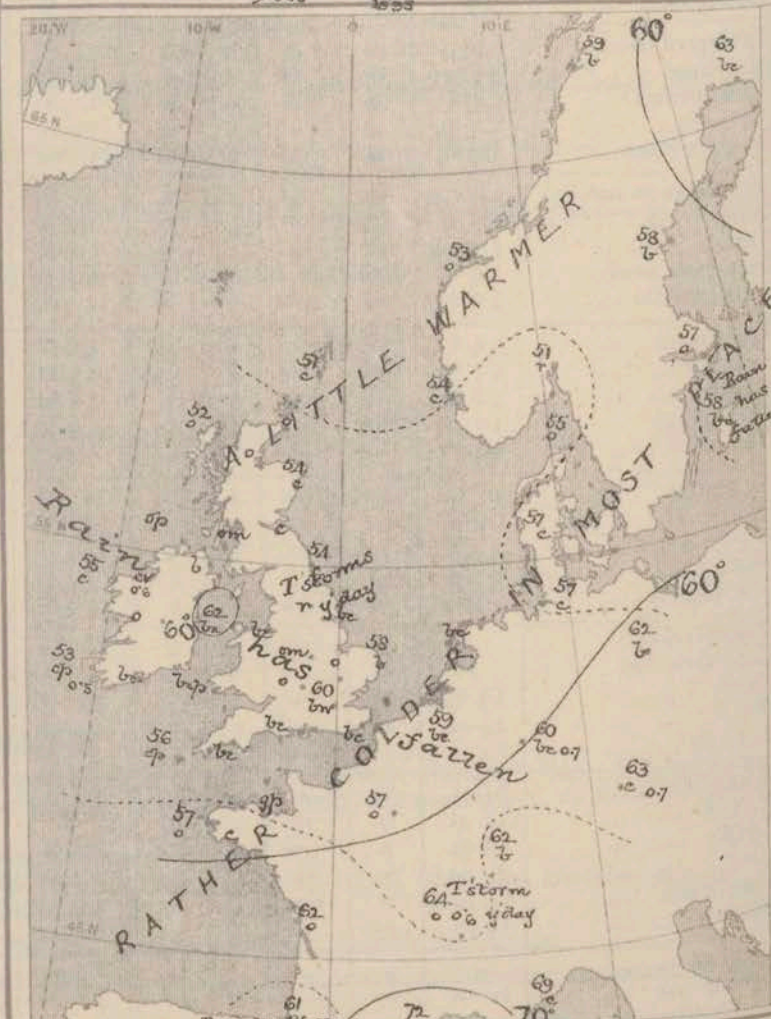
**RAINFALL**—A dotted line separates the districts in which rain has fallen from those where there has been none. Falls of 0.5 in. or more are quoted in figures.

### MEANS OF TEMPERATURE IN SHADE, AND RAINFALL.

(For the month of June.)

STATIONS.	TEMPERATURE.				RAINFALL. (Inches.)
	Daily Max.	Daily Min.	at 8 a.m.		
			Dry.	Wet.	
Sumburgh Head.....	51.5	45.1	50.4	48.7	2.07
Stornoway .....	57.6	46.0	53.3	51.0	2.99
Wick .....	58.8	45.7	53.1	50.4	1.75
Nairn .....	62.1	48.0	54.2	50.4	1.88
Aberdeen .....	61.3	47.5	54.7	50.9	1.88
Leith .....	64.5	48.1	56.0	52.5	1.84
Shields .....	60.9	49.1	54.9	51.9	1.82
York .....	66.2	48.3	56.1	52.7	2.45
Loughborough .....	68.7	49.0	58.1	54.1	2.43
Ardrossan .....	62.0	49.7	55.1	52.0	2.62
Donaghadee .....	60.9	48.9	55.0	52.8	2.04
Holyhead .....	61.7	51.6	55.6	53.1	2.10
Liverpool .....	63.6	50.9	56.6	52.6	1.96
Parsonstown .....	64.0	48.2	55.8	52.2	2.46
Valencia .....	61.7	50.7	56.8	53.8	3.42
Roche's Point .....	64.8	50.8	56.5	53.3	3.26
Pembroke .....	60.3	51.4	55.0	52.9	2.09
Scilly .....	61.1	53.0	57.2	55.0	1.94
Jersey .....	64.8	52.6	58.7	55.9	1.83
Hurst Castle .....	63.9	51.9	57.6	55.4	2.07
Dover .....	63.3	53.1	58.6	55.1	1.72
LONDON .....	63.3	50.6	59.2	54.8	2.12
Oxford .....	67.1	49.4	56.9	53.4	2.28
Cambridge .....	68.8	48.5	58.0	54.7	2.49
Yarmouth .....	62.2	51.4	56.9	54.1	2.02

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





# GENERAL SITUATION AT 8 A.M.

## PRESSURE

Highest, 30.0 in: and upwards, over Spain, the Bay of Biscay, and the west of France.

Lowest, 29.4 in: and less, in a depression lying over the south of Scandinavia.

Gradients slight. Barometer falling a little in the extreme south of our Islands and the west of France, as well as over the southern parts of Scandinavia but rising elsewhere.

## TEMPERATURE

Highest, 72° at Perpignan, 69° at Nice, 64° at Lyons, and 63° at Copenhagen, Munich, and Lisbon.

Lowest, 51° at Gadder, Sumburgh Head, Nain and Malin Head, and 52° at Stornoway, Leith, Anderson, and Rosenviken.

The highest maxima registered over our Islands yesterday were, 68° at Cambridge and 67° at Loughborough.

## WIND

Light from the N<sup>W</sup> (NW to NE) over the northern parts of the United Kingdom.

Moderate from NW over the southwest of our Islands and the west of France and from the W<sup>W</sup> or SW<sup>W</sup> over the Netherlands, North Germany, and the southeast of England.

Cyclonic circulation reported over Scandinavia, — W<sup>W</sup> wind strong in south.

## WEATHER

Fine in Germany and also in the north of Scandinavia, and fair in many parts of Western Europe, but showery at some of the English and Irish stations.

Rain fell yesterday in nearly all places, and thunderstorms occurred at Shields, Sumburgh Head, and Lyons.

## SEA

Slight or smooth generally, but rather rough at Lisbon.

## PROBABLE CHANGES IN SYSTEM NOW PREVALENT

There are at present no signs of any decided change in the weather. Showers are likely to prevail in many districts with a somewhat low temperature.

# FORECASTS

For the 24 hours ending at NOON on 29<sup>th</sup> JUNE 1890.

## DISTRICTS.

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

## FORECASTS.

N<sup>W</sup> winds, light; fair generally, but perhaps local showers.

W<sup>W</sup> to NW<sup>W</sup> winds, light; changeable, showery.

W<sup>W</sup> winds, moderate; some showers with bright intervals.

## DISTRICTS.

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

## FORECASTS.

Same as N<sup>o</sup> 0 and 1.

Same as N<sup>o</sup> 2.

W<sup>W</sup> to NW<sup>W</sup> winds, moderate; fair generally but local showers.

N<sup>W</sup> winds, light; fair generally, but local showers.

## WARNINGS

NONE ISSUED.

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

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



# YESTERDAY'S 2 P.M. REPORTS.

								THER: WIND									
		BAR:	D.	W.	D.	F.	WEA.	SEA			BAR:	D.	W.	D.	F.	WEA.	SEA
Skudesnaes ...	29.54	57	50	NW	7		b	3	Holyhead ...	29.75	60	55	NW	3		b	3
Sumburgh Head ...	29.65	54	51	ENE	1		b	3	Valencia ...	29.95	60	55	W	4		b	4
Stornoway ...	29.64	55	54	NE	3		o	3	Scilly ...	29.96	60	58	W	4		c	2
Aberdeen ...	29.52	54	51	NNE	2		o	2	Jersey ...	29.99	62	55	NW	4		b	3
Shields ...	29.61	54	51	WSW	4		o	2	Dungeness ...	29.82	62	56	W	6		b	5
Ardrossan ...	29.61	60	53	NW	4		b	3	London ...	29.79	65	56	WSW	3		c	3
Malin Head ...	29.70	54	52	W	4		b	2	Yarmouth ...	29.74	64	56	W	4		b	3
Mullaghmore ...	29.76	57	53	WSW	5		c	4	Rocheport ...	30.09	68	65	WSW	4		o	3
Belmullet ...	29.80	56	51	WSW	3		b	*									

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

Weather fine over the greater part of England, as well as over Sweden, the northern parts of Denmark and France and the whole of Southern Europe. Small showers, with rain in Germany and the east of Scotland, as well as at Haparanda, Uleaborg and Copenhagen, and passing showers at some of the Irish stations. Rain falling later in nearly all parts of Central and Northwestern Europe, and thunderstorms occurring in the northeast of England.

Temperature highest 82° at Palma, 78° at Barcelona, and 77° at Palermo, Algiers, and Laballe; above 70° over Southern Europe generally, and as high as 66° at Moscow. Lowest, 49° at Narvik, 50° at Bodö, 51° at Mick, Aberdeen, and Malin H., and 52° at Sumburgh Head; below 55° in nearly all the more northern parts of the United Kingdom, and also in the west of Norway. Subsequently rising to between 65° and 70° over the inland parts of England, and to 80° or more over the central and southern parts of France.

Wind moderate to fresh from the West over England and Ireland, and light from the same quarter in France; light from the SW over Germany, Denmark and the Netherlands, and from S in Sweden and Central Russia; N in the north and east of Scotland as well as over Spain and the southern parts of Norway & Russia; variable in Italy and Algeria. Strong NW wind setting in later on the west coast of Norway, but no important change occurring elsewhere.

Barometer highest, 30.1 ins: and upwards, in an anticyclone lying over the Bay of Biscay, Portugal, and the north of Spain; 29.8 ins: and upwards over Northern Russia; lowest 29.6 ins: and less, in an irregularly formed depression lying over Scotland, and also in another system lying over Lapland. Scotch disturbance subsequently travelling eastwards. Small secondary depressions passing across Ireland and 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 Sunday 29<sup>th</sup> June 1890.  
 Issued by the Meteorological Office, 63, Victoria Street, London. R. H. SCOTT, Secretary.

STATIONS.	YESTERDAY EVENING.					8 A.M. TO DAY.										PAST 24 HOURS.		
	BAROM.  Reading at 32° F. and Sea Level.	TEMP.  Dry.	WIND.		Weather.	BAROMETER.		SHADE TEMP.			WIND.		Sea. (0 to 6.)	SHADE TEMP.				
			Direc.	Force. (0 to 12.)		Reading at 32° F. and Sea Level.	Difference from 8 a.m. yesterday.	Dry.	Wet.	Difference from 8 a.m. yesterday.	Direc.	Force. (0 to 12.)		Weather.	Max.	Min.	Amount of Rainfall.	
SCANDINAVIA.	Haparanda ...	29.56	61	?	2	bc	29.49	- .10	61	52	- 2	NE	2	0	75	52	-	
	Hernösand ...	29.49	54	NE	2	r	29.44	- .14	50	54	- 2	SE	2	0	70	46	0.04	
	Stockholm ...	29.52	54	SSW	4	c	29.56	+ .07	56	52	- 1	SW	4	0	64	50	0.12	
	Wisby ...	29.65	55	SSW	4	b	29.69	+ .13	57	51	- 1	WSW	6	0	66	52	-	
	Bodö ...	29.59	57	NNE	2	b	29.52	- .10	59	52	0	WSW	1	0	59	52	-	
	Christiansund	29.66	50	NE	2	f	29.63	+ .06	51	48	- 2	SSW	2	0	74	48	0.12	
	Skudesnaes ...	29.73	51	NW	5	o	29.68	+ .10	53	47	- 1	NNW	6	0	55	45	0.04	
	Christiania Fjord (Færd)	29.53	59	SSW	3	bc	29.54	+ .14	58	54	+ 7	N	2	bc	3	59	51	-
	Skagen (The Seaw)	29.59	53	W	6	b	29.60	+ .15	60	55	+ 5	W	6	0	60	50	-	
	Fanö ...	29.78	52	W	2	b	29.73	+ .06	57	53	0	N	1	0	61	48	-	
BRITISH ISLANDS.	Sumburgh Head	29.79	48	WNW	2	o	29.75	+ .03	50	46	- 1	Z	0	0	52	43	0.02	
	Stornoway ...	29.84	53	N	3	c	29.75	- .09	53	52	+ 1	S	3	0	56	42	-	
	Wick ...	29.85	52	N	1	o	29.77	- .01	53	49	- 1	S	1	0	55	50	0.04	
	Nairn ...	29.84	55	Z	0	c	29.79	- .02	54	51	+ 3	Z	0	0	57	49	0.03	
	Aberdeen ...	29.86	52	NE	3	c	29.82	+ .04	54	49	0	SE	2	bc	2	57	46	0.03
	Leith ...	29.84	55	ENE	2	bc	29.82	+ .03	56	52	+ 4	ENE	1	0	60	47	0.07	
	Shields ...	29.81	52	NE	2	o	29.84	+ .10	57	52	+ 3	ENE	2	0	57	43	0.32	
	Spurn Head ...	29.76	54	ESE	3	r	29.84	+ .08	56	52	0	N	4	0	57	51	0.22	
	York ...	29.79	54	E	1	c	29.86	+ .08	57	51	+ 3	N	1	0	68	47	0.03	
	Loughborough	29.78	50	WSW	1	o	29.89	+ .09	55	51	- 2	NNW	2	bc	62	47	0.24	
GERMANY & HOLLAND.	Ardrossan ...	29.84	55	Z	0	r	29.83	+ .06	56	51	+ 4	W	2	0	60	44	0.08	
	Malin Head ...	29.88	55	NNW	4	b	29.82	+ .05	55	50	+ 4	S	3	0	57	50	-	
	Mullaghmore ...	29.90	56	NNW	6	b	29.85	+ .05	53	49	- 2	S	4	0	58	45	0.30	
	Belmullet ...	29.98	56	N	2	bc	29.82	- .02	52	50	- 3	SW	1	0	58	46	0.05	
	Donaghadee ...	29.84	58	NNE	4	c	29.88	+ .10	57	52	+ 1	WNW	2	0	63	54	-	
	Liverpool (Bidston)	29.80	57	S	2	c	29.89	+ .12	52	51	- 3	S	1	0	61	49	0.32	
	Holyhead ...	29.83	54	NNW	3	b	29.91	+ .13	62	56	0	NNW	2	bc	62	51	-	
	Parsonstown ...	29.88	58	WNW	1	c	29.93	+ .12	53	51	+ 1	SW	1	0	63	42	0.10	
	Valencia ...	29.99	58	N	4	bc	29.94	+ .05	54	53	+ 1	SW	4	0	60	52	0.10	
	Roche's Point...	29.87	55	NNW	3	bc	29.94	+ .10	56	52	+ 1	W	2	bc	61	50	0.25	
FRANCE AND BELGIUM.	Pembroke (St. Ann's Hd.)	29.85	55	W	3	b	29.95	+ .14	55	53	+ 2	NNW	1	0	56	47	-	
	Scilly ...	29.91	58	NNW	5	c	29.99	+ .13	58	55	+ 2	WNW	4	0	62	52	0.11	
	Prawle Point ...	29.86	53	WNW	3	c	29.97	+ .11	58	54	+ 3	WNW	2	0	59	46	0.25	
	Jersey (St. Aubin's)	29.90	58	W	5	bc	30.00	+ .09	59	55	+ 3	W	3	0	62	57	0.09	
	Hurst Castle ...	29.94	55	WNW	2	b	29.94	+ .08	55	53	- 5	WNW	2	0	62	49	0.16	
	Dungeness ...	29.80	60	WSW	5	bc	29.86	+ .01	57	53	- 2	WNW	4	0	63	48	0.01	
	London ...	29.78	56	NW	3	o	29.89	+ .06	54	51	- 6	W	1	0	67	48	0.57	
	Oxford ...	29.80	49	NNW	1	r	29.90	+ .07	54	52	0	NNW	1	0	63	46	0.35	
	Cambridge ...	29.77	57	W	1	r	29.86	+ .06	55	52	- 3	NW	1	0	64	48	0.15	
	Yarmouth ...	29.76	57	S	2	c	29.99	- .02	55	52	- 3	NNW	4	0	59	48	0.31	
PENIN- SULA.	Cuxhaven ...	29.84	58	ENE	2	bc	29.76	+ .02	58	56	+ 1	SE	3	0	62	47	0.04	
	Berlin ...	29.87	67	W	2	bc	29.79	- .07	58	56	- 4	SSW	2	0	75	55	0.04	
	Wiesbaden ...	*	*	*	*	*	29.89	- .04	61	56	+ 1	SW	3	0	72	57	0.08	
	Munich ...	29.97	63	SE	1	o	29.97	00	57	57	- 6	NNW	5	0	70	57	0.03	
	The Helder ...	29.80	59	WSW	1	bc	29.73	- .07	55	53	- 3	S	1	0	63	52	0.08	
	Brussels (9 a.m.)	*	*	*	*	*	29.86	- .03	52	50	- 7	W	2	0	68	48	0.04	
	Cape Gris Nez	?	61	WNW	5	b	?	?	52	50	- 6	NNW	5	0	63	52	1.77	
	Paris ...	29.58	65	SW	2	c	30.00	+ .05	56	53	- 1	WSW	2	0	70	46	0.08	
	Brest ...	29.93	59	NW	4	b	30.00	+ .07	58	55	+ 1	N	2	0	70	50	0.04	
	Lorient ...	29.97	59	WNW	5	b	30.07	+ .11	56	56	- 2	NNW	2	0	64	54	-	
PENIN- SULA.	Rochefort ...	30.06	63	WNW	3	c	30.16	+ .10	60	55	- 2	N	3	0	66	52	-	
	Belfort ...	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	
	Lyons ...	29.85	69	SE	1	b	30.04	+ .08	56	54	- 8	NNE	1	0	74	55	0.83	
	Nice ...	29.92	73	WSW	2	o	29.89	- .04	69	66	0	E	2	0	81	63	-	
	Perpignan ...	29.88	73	E	2	c	30.01	+ .06	60	57	- 12	W	2	0	85	58	0.08	
	Biarritz ...	30.26	67	NNE	3	a	30.08	+ .08	57	56	- 4	SE	3	0	73	55	0.32	

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

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



# WEATHER CHARTS

for 8 a.m. on

Sunday, 29<sup>th</sup> June,

1890.

## BAROMETER, WIND AND SEA.

### EXPLANATION OF MAP.

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

Changes since previous morning are stated in words.

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

their barbs and feathers refer to force thus—

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

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

○ = dead calm.

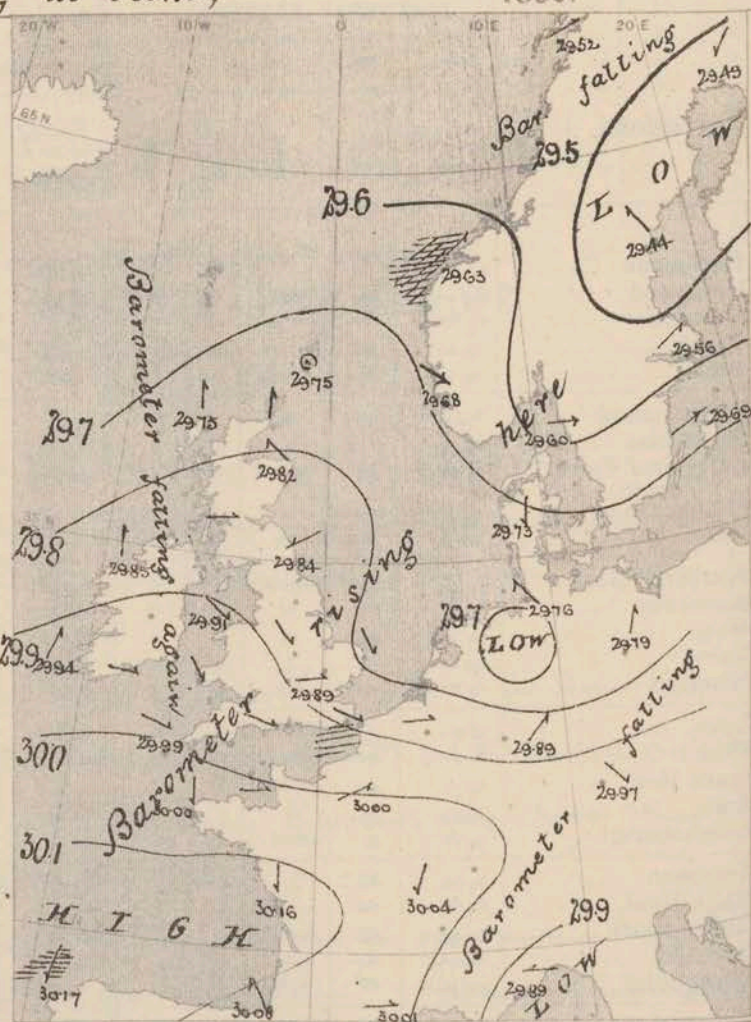
**SEA DISTURBANCE**—Where considerable, is shown thus:

▨ = Rough. ▨ = High.

## MEAN HEIGHT OF THE BAROMETER

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

STATIONS.	MEAN READINGS.
Sumburgh Head .....	29.862
Stornoway .....	29.852
Wick .....	29.874
Nairn .....	29.880
Aberdeen .....	29.890
Leith .....	29.904
Shields .....	29.925
York .....	29.949
Loughborough .....	29.958
Ardrossan .....	29.909
Donaghadee .....	29.920
Holyhead .....	29.944
Liverpool .....	29.944
Parsonstown .....	29.952
Valencia .....	29.954
Roche's Point .....	29.952
Pembroke .....	29.952
Silly .....	29.982
Jersey .....	29.994
Hurst Castle .....	29.981
Dover .....	29.971
LONDON .....	29.976
Oxford .....	29.964
Cambridge .....	29.967
Yarmouth .....	29.963



## 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.

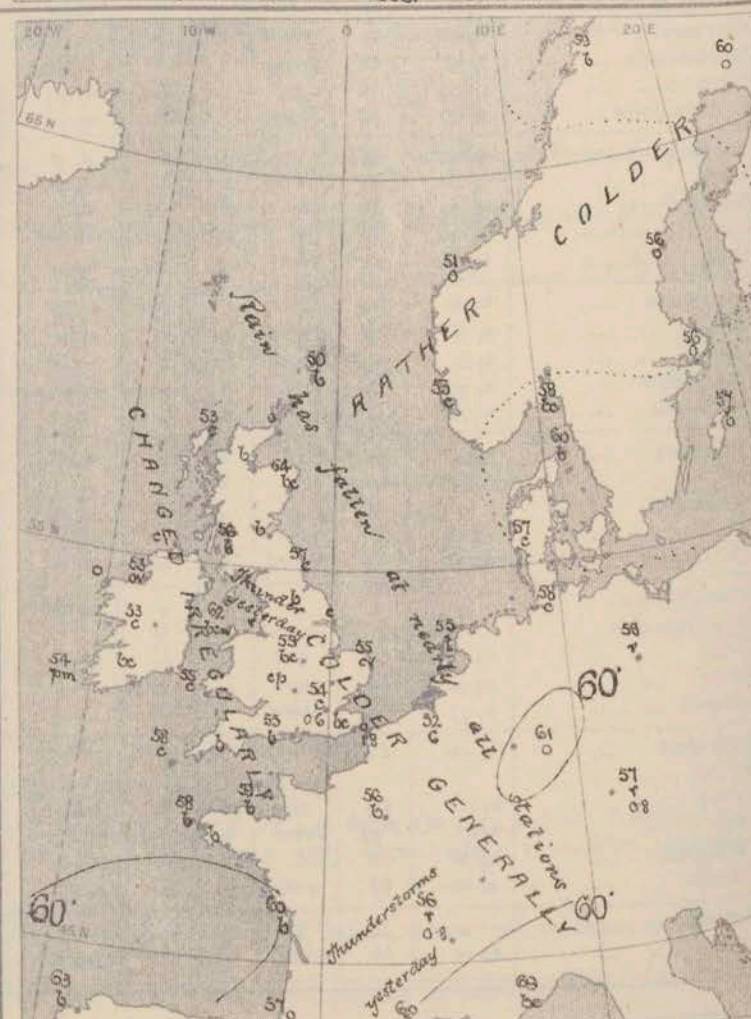
**WEATHER**—is shown by Letters of the Beaufort Scale.

**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 June.)

STATIONS.	TEMPERATURE.				RAINFALL. (Inches.)
	Daily Max.	Daily Min.	at 8 a.m. Dry.	Wet.	
Sumburgh Head .....	54.5	45.1	50.4	48.7	2.07
Stornoway .....	57.6	46.0	53.3	51.0	2.99
Wick .....	58.8	45.7	53.1	50.4	1.75
Nairn .....	62.1	48.0	54.2	50.4	1.88
Aberdeen .....	61.3	47.5	54.7	50.9	1.88
Leith .....	64.5	48.1	56.0	52.5	1.84
Shields .....	60.9	49.1	54.9	51.9	1.82
York .....	66.2	48.3	56.1	52.7	2.45
Loughborough .....	68.7	49.0	58.1	54.1	2.43
Ardrossan .....	62.0	49.7	55.1	52.0	2.62
Donaghadee .....	60.9	48.9	55.0	52.8	2.04
Holyhead .....	61.7	51.6	56.6	53.1	2.10
Liverpool .....	63.6	50.9	56.6	52.6	1.96
Parsonstown .....	64.0	48.2	56.8	52.2	2.46
Valencia .....	61.7	50.7	56.8	53.8	3.42
Roche's Point .....	64.8	50.8	56.5	53.3	3.26
Pembroke .....	60.3	51.4	55.0	52.9	2.09
Silly .....	61.1	53.0	57.2	55.0	1.94
Jersey .....	64.8	52.6	58.7	55.9	1.83
Hurst Castle .....	63.9	51.9	57.6	55.4	2.07
Dover .....	63.3	53.1	58.6	56.1	1.72
LONDON .....	69.3	50.6	59.2	54.8	2.12
Oxford .....	67.1	49.4	56.9	53.4	2.28
Cambridge .....	68.8	48.5	58.0	54.7	2.41
Yarmouth .....	62.2	51.4	56.9	54.1	2.02

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





# GENERAL SITUATION AT 8 A.M.

## PRESSURE

Highest, 30.1 in: and upwards, in an anticyclone lying over the Bay of Biscay, the west of France, and the northwest of Spain.  
Lowest, 29.5 in: and less, in a depression over Central Sweden; shallow secondary disturbances lying over the southern parts of the North Sea.  
Gradients slight. Barometer rising a little over England, France, and the south of Sweden, but falling elsewhere.

## TEMPERATURE

Highest, 69° at Nise, 63° at Borumma, 62° at Killybegs and Dibun, and 61° at Miskadon.  
Lowest, 50° at Sunbury Head, 51° at Christchurch, 52° at Balmullet and Dooport, and 53° at Skutumpah, Samsung, Kild, Mullaghmore and Rossmore.  
The maxima registered over our Islands yesterday were below 60° at several of the northern and northwestern stations.

## WIND

Light or moderate from the S.W. in the extreme west and north of our Islands and also in Holland, and North Germany.  
N.W. over the greater part of England, and also in the west of France; S.W. in Germany and the south of Sweden.  
N. in the western parts of the Iberian Peninsula, and N.E. in the south of France.

## WEATHER

Fine in many parts of Western Europe, but showery in places.  
Rain is falling in Germany, and thunder is reported at the Helder and Perpignan.  
Rain fell yesterday at most of our stations, the largest amounts being 1.8 in. at C. G. Key, 0.8 in. at Lyons, and 0.6 in. at London. Thunder occurred at Loughrea and Dooport.

## SEA

Slight or smooth generally, but rather rough at Cape G. Key.

## PROBABLE CHANGES IN SYSTEM NOW PREVALENT

# FORECASTS

For the 24 hours ending at NOON on 30<sup>th</sup> JUNE 1890.

## 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.

THER: WIND								THER: WIND							
BAR:		D.	W.	D.	F.	WEA.	SEA	BAR:		D.	W.	D.	F.	WEA.	SEA
Skudesnaes ...	29.67	50	50	NW	6	c	4	Holyhead ...	29.81	59	54	NW	2	b	2
Sumburgh Head ...	29.78	51	47	N	2	c	3	Valencia ...	29.94	60	55	NNW	4	bc	4
Stornoway ...	29.86	50	54	N	3	bc	3	Scilly ...	29.82	57	54	NNW	5	cp	2
Aberdeen ...	29.84	53	50	E	1	cp	1	Jersey ...	29.89	61	56	SW	4	c	3
Shields ...	29.79	52	51	NNW	2	r	2	Dungeness ...	29.83	62	56	WSW	4	bc	3
Ardrossan ...	29.80	59	54	WSW	2	c	1	London ...	29.79	61	55	W	2	cp	*
Malin Head ...	29.85	56	52	N	4	b	2	Yarmouth ...	29.79	56	54	SSW	2	cp	2
Mullaghmore ...	29.84	57	53	NNW	5	cpq	4	Rochefort ...	30.06	62	59	WSW	4	c	2
Belmullet ...	29.93	58	54	NNW	4	bc	*								

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

Weather fine over Germany and the north of Scandinavia, as well as over the greater part of Southern and Eastern Europe, and fair in many of the western countries, but showery at some of the English and Irish stations. B. in Austria, Denmark, and the south of Scandinavia. Heavy showers falling later in many parts of Western Europe, and thunderstorms occurring in some parts of England.

Temperature highest 78° at Annals, 77° at Liphorn and Palermo, 76° at Oran and Tunis, and 75° at Cagliari, Malta and Constantinople; above 70° over Southern and Eastern Europe generally. Lowest 51° at Vaerder, Sumburgh Head, Nairn, and Malin H., and 52° at Stornoway, Leith, Ardrossan and Rosneath. Daily maxima below 62° at many of our northern stations, but thermometer rising above 60° in most parts of the Continent, and exceeding 80° in Italy, Spain, and Algeria.

Wind light from the N. over the northern parts of the United Kingdom, and moderate from the NW. over the southwest of our Islands and the west of France. W. over the Netherlands, Germany, and the southeast of England; variable over the greater part of Southern Europe, and also in Russia - Cyclonic circulation reported over Scandinavia; W. winds strong in south. Subsequently shifting to the N. in most parts of the United Kingdom.

Barometer highest, 30.0 in. and upwards, over the Bay of Biscay and the western parts of the Iberian Peninsula, as well as over Turkey, Greece, and the south of Italy. Lowest 29.4 in. and less, in a depression lying over the south of Scandinavia; shallow secondary disturbances lying over the northwest of our Islands. Scandinavian depression subsequently moving eastwards; secondary system travelling southeastwards across the United Kingdom.

### EXPLANATION OF COLUMNS GIVEN ON PAGE 1.

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

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

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

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



# DAILY WEATHER REPORT.

for *Monday, 30<sup>th</sup> June, 1890.*  
 Issued by the Meteorological Office, 63, Victoria Street, London. *R. H. SCOTT, Secretary.*

STATIONS.		YESTERDAY EVENING.					8 A.M. TO DAY.										PAST 24 HOURS.		
		BAROM.	TEMP.	WIND.		Weather.	BAROMETER.		SHADE TEMP.			WIND.		Weather.	Sea. (0 to 9.)	SHADE TEMP.		Amount of Rainfall.	
		Reading at 32° F. and Sea Level.	Dry.	Dirac.	Force. (0 to 12.)		Reading at 32° F. and Sea Level.	Difference from 8 a.m. yesterday.	Dry.	Wet.	Difference from 8 a.m. yesterday.	Dirac.	Force. (0 to 12.)			Max.	Min.		
SCANDINAVIA.																			
Haparanda ...		29.40	55	SSW	4	r	29.36	- .13	54	54	- 7	SSW	2	r	*	73	52	0.99	
Hernösand ...		29.42	54	SS	0	b	29.38	- .06	58	55	+ 2	SS	0	0	*	68	50	-	
Stockholm ...		29.61	57	SW	4	0	29.65	- .04	57	51	0	W	6	bc	*	66	54	-	
Wisby ...		29.50	54	WSW	4	b	29.47	- .05	53	50	- 6	W	2	c	1	61	50	-	
Christiansund		29.69	52	NW	2	bc	29.63	.00	53	48	+ 2	NW	3	0	3	55	48	0.08	
Skudesnaes ...		29.66	52	NW	6	bc	29.67	- .01	54	46	+ 1	NW	2	bc	3	57	45	-	
Christiania Fjord (Fiorder)		29.52	60	ESE	2	bc	29.56	+ .02	56	49	- 2	NNE	2	c	2	63	52	-	
Skagen (The Scaw)		29.57	57	W	5	b	29.59	- .01	54	50	- 6	WNW	5	0	4	50	50	-	
Fanö ...		29.74	52	WNW	4	c	29.74	+ .01	59	53	+ 2	W	4	bc	*	61	50	-	
Sumburgh Head		29.68	53	S	1	b	29.68	- .17	53	49	+ 3	SSE	4	b	5	55	46	-	
Stornoway ...		29.54	54	S	6	0	29.27	- .48	55	53	+ 2	SE	6	0	6	58	51	0.02	
Wick ...		29.60	54	S	4	0	29.43	- .34	54	53	+ 1	S	4	ov	3	58	42	-	
Nairn ...		29.58	61	E	1	bc	29.35	- .44	57	53	+ 3	E	1	c	1	63	45	-	
Aberdeen ...		29.67	53	SSE	4	bc	29.44	- .38	54	53	0	SE	4	og	4	57	50	0.11	
Leith ...		29.66	61	SW	2	b	29.33	- .49	54	50	- 2	E	1	0	*	64	48	0.01	
Shields ...		29.74	52	SE	3	bc	29.41	- .43	54	52	- 3	SE	3	c	3	57	50	0.05	
Spurn Head ...		29.79	57	NE	4	c	29.42	- .42	55	52	- 1	SSE	6	ogp	5	58	50	0.02	
York ...		29.79	59	S	1	0	29.39	- .47	53	52	- 4	S	3	r	*	65	49	0.01	
Loughborough		29.82	59	WSW	2	c	29.39	- .50	52	51	- 3	SSE	3	d	*	69	50	0.08	
Ardrossan ...		29.64	57	SSE	4	0	29.22	- .61	54	51	- 2	E	4	om	3	59	53	0.02	
Malin Head ...		29.50	55	S	6	ogp	29.14	- .68	50	50	- 5	NW	1	or	0	57	49	0.18	
Mullaghmore ...		29.51	56	SSE	5	0	29.15	- .70	54	50	+ 1	SW	5	b	2	57	50	0.10	
Belmullet ...		29.46	54	SSW	5	0	29.13	- .69	53	50	+ 1	SW	1	0	*	56	50	0.13	
Donaghadee ...		29.65	56	SW	4	c	29.15	- .73	51	51	- 6	SE	6	r	4	63	49	0.31	
Liverpool (Bidston)		29.77	59	NW	1	c	29.26	- .63	52	51	0	SE	5	r	4	62	50	0.20	
Holyhead ...		29.77	57	SSW	5	bc	29.18	- .73	55	55	- 7	S	4	rgm	4	67	53	0.21	
Parsonstown ...		29.62	55	SW	1	0	29.20	- .73	55	54	+ 2	SW	2	c	*	59	50	0.25	
Valencia ...		29.57	58	SW	4	rm	29.25	- .69	55	53	+ 1	SW	5	cqpp	5	58	50	0.66	
Roche's Point...		29.64	54	SW	5	r	29.27	- .67	55	51	- 1	W	4	b	4	59	50	0.30	
Pembroke (St. Ann's Hd.)		29.80	54	SSW	5	r	29.26	- .69	54	52	- 1	W	5	bcq	5	59	52	0.40	
Scilly ...		29.90	54	SW	4	r	29.47	- .52	57	57	- 1	WNW	5	c	2	60	51	0.45	
Prawle Point ...		29.88	55	WNW	4	0	29.34	- .63	55	55	- 3	WSW	5	r	4	59	51	0.50	
Jersey (St. Aubin's)		29.96	60	WNW	4	bc	29.48	- .52	58	57	- 1	SSW	6	orm	5	62	53	0.29	
Hurst Castle ...		29.89	58	WSW	5	c	29.37	- .57	56	56	+ 1	SSW	7	r	4	63	53	0.31	
Dungeness ...		29.88	59	WSW	5	bc	29.53	- .33	54	53	- 3	S	7	rq	5	65	53	0.03	
London ...		29.85	62	W	2	bc	29.44	- .45	53	52	- 1	S	4	r	*	66	50	0.07	
Oxford ...		29.81	55	S	1	0	29.36	- .54	52	51	- 2	SE	3	r	*	67	51	0.15	
Cambridge ...		29.81	65	N	1	bc	29.43	- .43	53	52	- 2	S	2	r	*	68	48	0.09	
Yarmouth ...		29.86	58	SE	3	b	29.54	- .25	56	52	+ 1	SSE	5	bc	4	60	50	-	
Cuxhaven ...		29.77	59	WNW	3	b	29.63	+ .07	56	54	- 2	SSW	3	b	*	60	54	0.12	
Berlin ...		29.80	63	WNW	3	c	29.90	+ .11	56	52	- 2	WNW	3	c	*	70	52	0.08	
Wiesbaden ...		*	*	*	*	*	29.89	.00	55	52	- 6	NW	1	bc	*	66	46	-	
Munich ...		30.09	50	SW	2	r	29.97	.00	54	51	- 3	SE	3	c	*	57	46	2.13	
The Helder ...		29.87	57	WNW	1	b	29.68	- .05	57	53	+ 2	S	1	c	2	59	46	0.32	
Brussels (6 a.m.)		*	*	*	*	*	29.70	- .16	55	53	+ 3	SSE	2	0	*	60	46	0.08	
Cape Gris Nez		?	59	W	5	b	29.70	- .16	54	51	+ 2	SW	4	0	4	63	50	0.08	
Paris ...		29.97	64	W	2	bc	29.78	- .22	56	53	0	SSW	2	r	*	71	53	-	
Brest ...		29.93	60	W	3	0	29.53	- .47	59	58	+ 1	WSW	5	r	5	70	50	0.39	
Lorient ...		30.02	59	W	3	0	29.60	- .47	58	57	+ 2	SW	6	r	5	63	54	0.63	
Rochefort ...		30.15	64	NW	4	b	29.90	- .26	61	61	+ 1	WSW	5	r	2	72	55	-	
Belfort ...		*	*	*	*	*	29.93	- .11	60	52	+ 4	SE	1	b	*	67	47	0.04	
Lyons ...		30.01	63	NNE	1	b	29.76	- .13	65	61	- 4	W	2	bc	1	81	59	-	
Nice ...		29.78	61	E	2	bc	29.98	- .03	64	57	+ 4	W	2	b	*	70	57	0.32	
Perpignan ...		30.03	65	NW	3	0	29.97	- .11	60	54	+ 3	SSW	2	b	1	72	55	0.04	
Biarritz ...		30.11	65	NW	4	b	29.97	- .11	60	54	+ 3	SSW	2	b	1	72	55	0.04	
Corunna ...		*	*	*	*	*	30.12	+ .07	61	55	- 1	NNE	5	b	?	72	57	-	
Lisbon ...		29.65	62	WNW	6	b	30.12	+ .07	61	55	- 1	NNE	5	b	?	72	57	-	

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

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



# WEATHER CHARTS

for 8 a.m. on

Monday, 30<sup>th</sup> June

1890.

## BAROMETER, WIND AND SEA.

### EXPLANATION OF MAP

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

Changes since previous morning are stated in words.

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

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

→ = forces 5 to 7; → = forces 1 to 4.

○ = dead calm.

**SEA DISTURBANCE**—Where considerable, is shown thus:

▨ = Rough. ▨ = High.

## MEAN HEIGHT OF THE BAROMETER

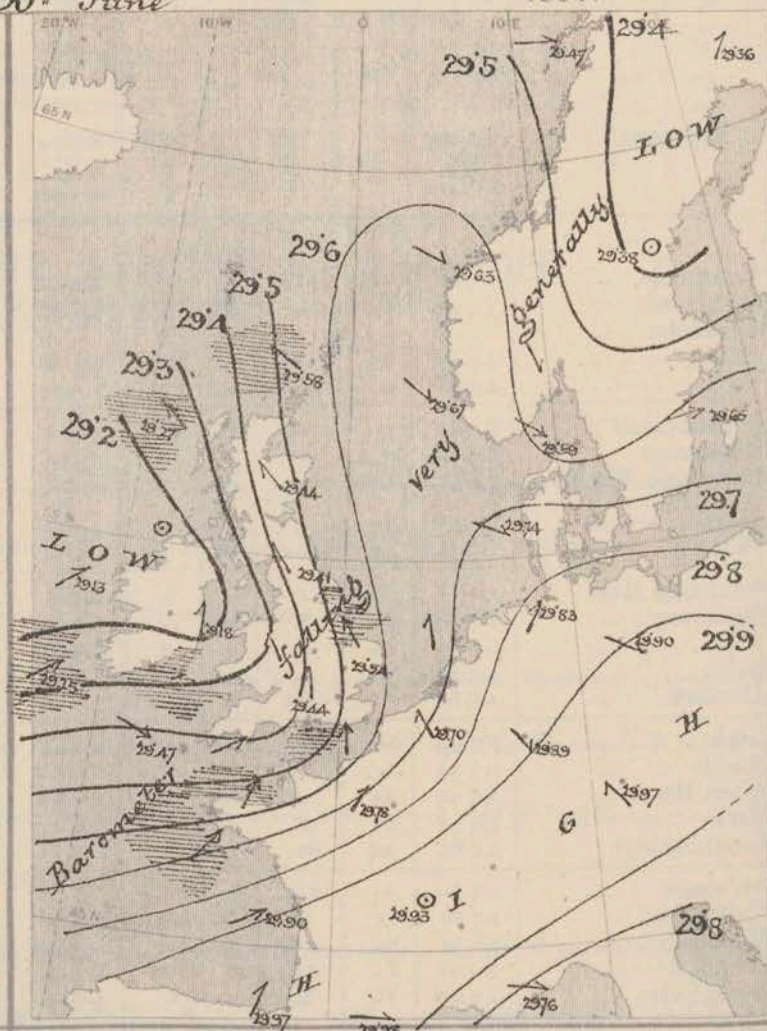
at 8.0 a.m. for the month of June.

During the 15 Years: 1871—1885.

### STATIONS.

### MEAN READINGS.

STATIONS.	MEAN READINGS.
Sumburgh Head	29.862
Stornoway	29.852
Wick	29.874
Nairn	29.889
Aberdeen	29.890
Leith	29.904
Shields	29.928
York	29.949
Loughborough	29.958
Ardrossan	29.969
Donaghadee	29.920
Holyhead	29.944
Liverpool	29.944
Parsonstown	29.952
Valencia	29.954
Roche's Point	29.982
Pembroke	29.952
Silly	29.952
Jersey	29.994
Hurst Castle	29.981
Dover	29.971
LONDON	29.976
Oxford	29.984
Cambridge	29.967
Yarmouth	29.963



## 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 June.)

STATIONS.	TEMPERATURE.				RAINFALL (Inches.)
	Daily Max.	Daily Min.	at 8 a.m.		
			Dry.	Wet.	
Sumburgh Head.....	54.5	45.1	50.4	48.7	2.07
Stornoway .....	57.0	46.0	53.3	51.0	2.99
Wick .....	58.8	45.7	53.1	50.4	1.75
Nairn .....	62.1	48.0	54.2	50.4	1.88
Aberdeen .....	61.3	47.5	54.7	50.9	1.88
Leith.....	64.5	48.1	56.0	52.5	1.84
Shields.....	60.9	49.1	54.9	51.9	1.82
York .....	66.2	48.3	56.1	52.7	2.46
Loughborough .....	68.7	49.0	58.1	54.1	2.43
Ardrossan .....	62.0	49.7	55.1	52.0	2.62
Donaghadee.....	60.9	48.9	55.0	52.8	2.04
Holyhead.....	61.7	51.6	55.6	53.1	2.10
Liverpool .....	63.6	50.9	56.6	52.6	1.96
Parsonstown .....	64.0	48.2	55.8	52.2	2.46
Valencia .....	61.7	50.7	56.8	53.8	3.42
Roche's Point .....	64.8	50.8	56.5	53.3	3.26
Pembroke.....	60.3	51.4	55.0	52.9	2.09
Silly .....	61.1	53.0	57.2	55.0	1.94
Jersey .....	64.8	52.6	58.7	55.0	1.83
Hurst Castle .....	63.0	51.9	57.6	55.4	2.07
Dover .....	63.3	53.1	58.6	55.1	1.72
LONDON .....	69.3	50.6	59.2	54.8	2.12
Oxford .....	67.1	49.4	56.9	53.4	2.28
Cambridge .....	68.8	48.5	58.0	54.7	2.49
Yarmouth .....	62.2	51.4	56.9	54.1	2.02

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





# GENERAL SITUATION AT 8 A.M.

## PRESSURE

Highest, 30.0 ins: to 30.1 ins: and more, over Spain and Portugal, 29.9 ins: and more over southern, and central France and South Germany.  
Lowest, 29.2 ins: and less, over the north of Ireland, and 29.2 ins: to 29.4 ins: in a "V" shaped secondary extending thence across Ireland and England.  
Gradients somewhat steep in the south and east, moderate elsewhere.

Barometer falling generally—most over England, Holland, and the north of France.

## TEMPERATURE

Highest, 65° at Nice, 64° at Perpignan, 61° at Lebow and Rochefort.

Lowest, 50° at Malin Head, 52° at Liverpool, Loughborough, and Oxford, 53° in London and at Biss, and 54° to 55° in many other parts of our islands and Northern Europe.  
The daily maxima recorded over England yesterday ranged from 65° to 68°.

## WIND

SE<sup>ly</sup> at our northern, midland, and eastern stations, S<sup>ly</sup> to W<sup>ly</sup> in the south, and blowing strongly at several stations.  
In Ireland the wind was more moderate, and (except at Donaghadee) was mainly SW<sup>ly</sup> in direction.

## WEATHER

Dull at all the western stations, very rainy over the eastern, central and southern counties of England, the Channel, and northern parts of France. In the south of France and over Spain it is clear.  
Rain has fallen very generally—heaviest in the southwest.

## SEA

Moderate or rather rough on all our coasts and over the Bay of Biscay.

## PROBABLE CHANGES IN SYSTEM NOW PREVALENT

There is no indication of any permanent improvement at present.

# FORECASTS

For the 24 hours ending at NOON on 1<sup>st</sup> JULY 1890.

## DISTRICTS.

## FORECASTS.

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

SE<sup>ly</sup> and S<sup>ly</sup> winds; dull, very unsettled, rainy.

SE<sup>ly</sup> and S<sup>ly</sup> winds, strong; cold, rainy, very unsettled, some clearing later.

## DISTRICTS.

## FORECASTS.

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

Wind very Variable, temperature low, weather very changeable, rain at times, thunder locally.

## WARNINGS

NONE ISSUED.

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



# YESTERDAY'S 2 P.M. REPORTS.

	BAR:	THER:		WIND		WEA.	SEA		BAR:	THER:		WIND		WEA.	SEA
		D.	W.	D.	F.					D.	W.	D.	F.		
Skudesnaes ...	29.67	56	50	NW	7	bc	3	Holyhead ...	29.85	60	52	SW	8	bc	2
Sumburgh Head ...								Valencia ...							
Stornoway ...	29.63	56	55	SE	4	bc	4	Scilly ...							
Aberdeen ...								Jersey ...	30.00	61	57	W	6	bc	3
Shields ...								Dungeness ...	29.87	61	56	W	6	bc	4
Ardrossan ...								London ...							*
Malin Head ...	29.66	56	51	S	4	0	1	Yarmouth ...							
Mullaghmore ...								Rochefort ...	30.17	66	59	NW	4	c	2
Belmullet ...	29.64	55	52	SW	5	ru	*								

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

Weather fine over the greater part of Europe, but showery at one or two of our own stations, and rainy in several parts of Germany and the east of France. Thunder reported at the Helder and Perpignan. Rain setting in later over all the more western parts of the United Kingdom, and thunderstorms occurring at Aberdeen and Shields.

Temperature highest 81° at Trieste and Ancona, 79° at Legna, 78° at Constantinople and La Halle, and 77° at Brindisi, above 70° over southern and eastern Europe generally. Lowest 50° at Sumburgh Head and Le Mans, 51° at Christiansund, 52° at Belmullet and Liverpool, and 53° at Skudesnaes, Stornoway, Wick, Mullaghmore and Parsonstown, below 55° in many parts of the United Kingdom. Daily maxima below 60° in the west and north of our Islands, but above 70° at some of the French stations, and also in the north of Sweden.

Wind light or moderate from the S.W. in the extreme west and north of our Islands, and also in Holland and North Germany; S.W. over the Baltic and Finland. Light from the NW. over the greater part of England, and also in the west of France, N. in Portugal, and also in Algeria, variable in Italy, Austria and the south of Russia. Subsequently backing to the SW. or S. in all the more western and northern parts of the United Kingdom, and increasing to a strong breeze on our extreme northwest coast.

Barometer highest 30.1 ins. and upwards over the Bay of Biscay, the west of France and the northwest of Spain, 30.0 ins. and upwards over Turkey and the southern parts of Italy and Russia. Lowest 29.5 ins. and less in shallow depressions lying over northern Russia and the Gulf of Bothnia, 29.7 ins. and less in a smaller system lying over northwest Germany. Large disturbance advancing later to our extreme northwest coast, and barometer falling briskly in the west and north of our Islands generally.

## SUMMARY OF CHANGES IN THE WEATHER OVER THE BRITISH ISLANDS AND THEIR NEIGHBOURHOOD FROM THE 22<sup>ND</sup> TO 28<sup>TH</sup> JUNE 1890.

During this period two areas of relatively high pressure appeared over the Bay of Biscay and the west of France. The first moved slowly eastwards to southern Germany, while the second remained almost stationary. Several large shallow depressions reached Scandinavia from the westward or north-westward, while the barometer over our Islands was influenced by very shallow secondary systems moving eastwards from the Atlantic. During the night of the 24<sup>TH</sup> - 25<sup>TH</sup> the centre of a disturbance of rapidly increasing depth advanced from the south-westward to the northward of Scotland, and on the succeeding day travelled on to Norway. It produced very severe gales from the W. over the northern extremity of Scotland, and moderate to fresh gales on the Norwegian coast. With this exception the winds over the United Kingdom were light or moderate, and generally varied between S.W. and N.W.

The weather has been very unsettled in the extreme north and west, and rain has fallen daily, in most other parts of the Kingdom the conditions were fair during the earlier days of the week, but became showery towards its close. Temperature has, as a whole, remained rather low for the time of year, but on the 24<sup>TH</sup> and 25<sup>TH</sup> it rose considerably in most parts of southern and central England, although at all the Channel stations a thick and persistent mist fog caused the thermometer readings to remain low.

At the end of the week pressure was increasing in the west and north, in the rear of some shallow low pressure systems, which moved south-eastwards across England, and the wind was veering to the N.W. or N.W. Heavy rain fell on Saturday at many of the English stations, with thunderstorms in some localities.

## EXPLANATION OF COLUMNS GIVEN ON PAGE 1.

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

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

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

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



# ADDITIONS AND CORRECTIONS TO THE

## 1. REPORTS RECEIVED TOO LATE FOR INSERTION DAILY.

DATE.	STATIONS.	YESTERDAY EVENING.						8 A.M. TO-DAY.										PAST 24 HOURS.		
		Barometer at 32° F. and Sea Level.	Temp. in Shade.	WIND.		Weather.	BAROMETER.		SHADE TEMP.			WIND.		Weather.	Sea (0 to 9.)	SHADE TEMP.		Amount of Rainfall.		
				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.			
1	Berlin .....	29.95	52	NNW	6	c	29.99	+13	49	-	-	W	4	c	4	61	41	-		
"	Brussels .....	*	*	*	*	*	30.05	-06	47	-	-2	WSW	1	o	*	58	35	-		
2	Corunna .....	*	*	*	*	*	30.19	+19	59	57	+1	NNE	3	o	4	64	55	-		
4	Corunna .....	*	*	*	*	*	30.06	+01	62	58	+2	SSE	5	c	3	68	55	0.12		
7	Biarritz .....	30.35	64	NNW	4	b	30.44	+14	63	-	+2	ESE	2	o	2	75	59	-		
"	Corunna .....	*	*	*	*	*	30.35	+03	66	64	-	HW	1	m	1	75	59	-		
9	Haparanda .....	29.92	48	N	6	b	30.00	+14	47	44	-7	N	6	bc	*	59	46	-		
"	Corunna .....	*	*	*	*	*	30.15	-09	61	59	+1	N	2	o	2	72	55	-		
10	Corunna .....	*	*	*	*	*	30.01	-14	65	59	+4	SW	5	c	3	70	57	-		
11	Corunna .....	*	*	*	*	*	30.21	+20	61	57	-4	SW	3	o	4	68	55	-		
12	Corunna .....	*	*	*	*	*	30.23	+02	61	58	0	W	5	o	4	68	57	-		
13	Corunna .....	*	*	*	*	*	30.35	+12	63	57	+2	NNW	2	o	4	66	46	-		
14	Corunna .....	*	*	*	*	*	30.35	00	63	58	0	NNE	4	bc	4	68	55	-		
16	Corunna .....	*	*	*	*	*	30.13	-18	68	63	-1	NNE	1	b	2	72	54	-		
17	The Helder .....	30.09	58	SSW	2	bc	29.96	-28	57	-	+3	SW	2	f	2	64	54	-		
18	Corunna .....	*	*	*	*	*	30.19	+07	67	64	-2	N	1	m	3	72	54	-		
20	Corunna .....	*	*	*	*	*	30.06	-11	67	65	-2	N	5	bc	5	75	61	-		
21	Corunna .....	*	*	*	*	*	30.10	+02	64	62	-3	NNE	6	o	4	70	57	-		
23	Corunna .....	*	*	*	*	*	30.20	-04	66	62	+2	NNE	6	b	5	68	59	-		
24	Corunna .....	*	*	*	*	*	30.08	-12	70	65	+4	NNE	4	b	5	70	50	-		
25	Corunna .....	*	*	*	*	*	30.00	-08	75	70	+5	NNE	2	b	3	77	61	-		
26	Corunna .....	*	*	*	*	*	30.13	+13	63	62	+12	NW	1	f	4	77	59	-		
27	Cape Gris Neg .....	?	58	SSW	1	o	?	?	56	-	-5	NW	5	bc	5	64	54	-		
"	Corunna .....	*	*	*	*	*	30.13	00	63	62	0	NNW	4	f	4	70	59	-		
30	Stockholm .....	29.55	58	SW	2	b	29.53	-03	59	51	+3	SW	4	c	*	66	52	-		
"	Corunna .....	*	*	*	*	*	30.06	-11	62	57	-1	SSW	4	o	4	62	54	-		



## 2. CORRECTIONS.

[illegible]