

2491
7

METEOROLOGICAL OFFICE,
LONDON.

DAILY WEATHER REPORTS.

1ST JULY-31ST DECEMBER,
1890.

Soc. Reg. Lond.

DAILY WEATHER REPORT.

July to December 1890.



DAILY WEATHER REPORT.

for

Saturday, 1st November,

1890.

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

Issue of the Meteorological Office, 25, Abchurch Lane, London, E.C. 4, 1891, Secretary.																	
STATIONS.	YESTERDAY EVENING.					8 A.M. TO DAY.										PAST 24 HOURS.	
	BAROM.	TEMP.	WIND.		Weather.	BAROMETER.		SHADE TEMP.			WIND.		Weather.	Sea. (0 to 12.)	SHADE TEMP.		Amount of Rainfall.
	Reading at 3 ³⁰ P. and Sea Level.	Dry.	Dirce.	Force. (0 to 12.)		Reading at 8 ³⁰ P. 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 ...	29.39	32	Z	0	c	29.72	+ 7 ¹	24	23	- 7	Z	0	b	*	36	?	-
Hernösand ...	29.78	33	Z	0	b	29.85	+ 3 ⁷	24	23	- 12	Z	0	b	*	46	?	-
Stockholm ...	29.68	36	Z	0	o	29.80	+ 0 ⁶	30	38	+ 4	E	2	o	*	43	28	0.39
Wisby ...	29.89	40	WSW	4	bc	29.72	- 0 ⁸	42	41	+ 1	E	4	o	*	43	37	-
Bodö ...	29.54	41	WSW	6	bc	29.71	- 5 ¹	36	35	- 4	E	2	b	1	41	36	0.08
Christiansund	29.89	39	ESE	3	c	29.50	- 1 ⁸	39	37	+ 4	ESE	3	c	4	39	?	0.16
Skudesnaes ...	29.60	47	SE	8	r	29.89	- 1 ⁷	47	42	+ 2	SE	7	a	5	47	45	0.16
Christiania Fjord (Færder)	29.80	42	NE	2	o	29.72	- 0 ⁷	40	38	- 1	NNE	4	o	2	?	39	-
Skagen (The Scaw)	29.76	44	SE	1	o	29.66	- 1 ⁶	43	41	+ 2	SE	3	o	2	46	39	0.04
Fanö ...	29.63	41	ESE	4	o	29.86	- 3 ³	42	42	+ 2	ESE	4	m	*	46	39	-
BRITISH ISLANDS.																	
Sumburgh Head	29.37	47	NE	1	o	29.47	- 0 ⁵	46	45	+ 2	WNW	3	bc	4	48	43	0.02
Stornoway ...	29.49	45	NE	2	o	29.60	+ 1 ⁷	43	42	- 2	W	2	bc	3	48	41	0.05
Wick ...	29.41	46	NE	2	r	29.60	+ 1 ⁷	43	42	0	W	1	o	1	48	40	0.05
Nairn ...	29.45	45	NE	1	o	29.62	+ 2 ¹	46	45	+ 2	WSW	1	c	1	47	43	0.11
Aberdeen ...	29.38	46	NW	5	o g g r	29.63	+ 2 ⁰	45	43	- 1	WNW	2	c	3	50	43	0.47
Leith ...	29.38	49	NW	1	r	29.67	+ 2 ⁵	45	43	- 4	W	1	cm	*	50	42	0.84
Shields ...	29.34	53	WNW	2	bc	29.66	+ 1 ⁸	45	42	- 4	WNW	2	c	2	58	43	0.02
Spurn Head ...	29.41	51	W	3	cm	29.61	- 0 ¹	48	46	- 2	NW	5	c	4	52	47	0.04
York ...	29.39	52	W	2	bc	29.66	+ 0 ⁹	46	43	- 6	W	1	bc	*	56	45	-
Loughborough	29.48	51	W	3	o	29.71	+ 0 ⁶	45	42	- 8	W	2	b	*	57	45	0.02
Ardrossan ...	29.44	50	NW	4	b	29.70	+ 2 ⁹	50	48	- 3	NW	3	bc	2	53	44	0.16
Malin Head ...	29.34	51	N	3	o	29.74	+ 2 ⁸	44	45	- 2	WNW	3	bc	3	52	45	-
Mullaghmore ...	29.62	51	WNW	5	o r g	29.79	+ 2 ⁰	50	47	- 2	W	4	o	3	53	49	0.15
Belmullet ...	29.69	57	WNW	2	b	29.79	+ 1 ⁶	50	48	- 2	SW	2	bc	*	53	48	0.20
Donaghadee ...	29.52	52	N	4	c	29.76	+ 2 ⁷	48	47	- 5	NW	3	c	1	56	44	0.01
Liverpool (Bidston)	29.49	52	W	4	o	29.74	+ 1 ⁷	49	48	- 4	NW	3	o	4	54	49	0.02
Holyhead ...	29.53	54	NW	5	o g	29.79	+ 2 ⁰	51	49	- 3	WNW	5	o g g	4	57	51	0.02
Parsonstown ...	29.66	50	Z	0	o	29.87	+ 2 ⁰	41	40	- 11	Z	0	b	*	54	40	0.26
Valencia ...	29.83	53	NW	5	c	29.92	+ 1 ³	52	51	- 3	W	1	om	1	56	50	0.41
Roche's Point...	29.69	53	WNW	6	c	29.91	+ 1 ⁸	50	47	- 5	NW	2	bc	3	56	48	0.15
Pembroke (St. Ann's Hd.)	29.54	54	W	5	r	29.86	+ 1 ⁶	51	49	- 4	NW	5	c	5	56	51	0.03
Scilly ...	29.63	56	NW	6	c	29.92	+ 1 ⁰	53	52	- 2	NW	5	c	5	57	51	0.01
Prawle Point ...	29.59	53	WNW	6	r	29.86	+ 0 ⁹	51	48	- 4	WNW	3	b	2	57	46	0.14
Jersey (St. Aubin's)	29.66	56	W	3	cm p g	29.82	- 0 ³	54	50	- 2	NW	4	bc	3	57	53	0.23
Hurst Castle ...	29.56	54	WNW	5	c	29.77	+ 0 ¹	47	45	- 7	WNW	4	b	2	57	44	0.11
Dungeness ...	29.49	55	W	4	o	29.67	- 1 ²	49	47	- 4	NW	3	o g w	2	57	45	0.17
London ...	29.50	54	SW	1	c	29.71	- 0 ³	49	46	- 3	WNW	1	o	*	58	47	0.04
Oxford ...	29.50	50	W	3	bc	29.74	+ 0 ⁴	47	45	- 6	NW	2	b	*	56	45	0.06
Cambridge ...	29.48	54	S	1	o	29.69	- 0 ¹	48	48	- 4	NW	2	o	*	55	46	0.11
Yarmouth ...	29.45	53	SW	2	dm	29.55	- 2 ¹	47	46	- 2	NW	5	g m	4	53	46	0.12
GERMANY & HOLLAND.																	
Cuxhaven ...	29.75	44	SE	5	o	29.57	- 3 ⁸	43	42	+ 5	SE	3	o	*	44	?	-
Berlin ...	29.75	42	ESE	3	r	29.63	- 3 ⁹	42	40	0	SW	3	o	*	43	39	0.12
Wiesbaden ...	*	*	*	*	*	29.61	- 3 ⁵	43	42	+ 1	Z	0	o	*	46	41	-
Munich ...	29.81	34	W	3	o	29.72	- 2 ¹	36	35	+ 6	SE	3	r	*	37	?	0.12
The Helder ...	29.49	47	ESE	1	f	29.46	- 4 ⁶	48	46	+ 5	ESE	1	f	1	48	43	0.08
FRANCE AND BELGIUM.																	
Brussels (9 a.m.)	*	*	*	*	*	29.58	- 3 ¹	48	48	+ 3	WNW	2	o	*	51	44	0.16
Cape Gris Nez	29.50	55	SW	4	o	29.60	- 2 ¹	50	48	+ 1	WNW	5	o	5	57	46	0.39
Paris ...	29.66	52	SW	3	o	29.68	- 2 ⁴	48	48	0	W	1	o	*	52	45	0.20
Brest ...	29.76	56	W	5	r	?	?	54	52	- 2	N	5	o	6	?	50	0.12
Lorient ...	29.78	55	WNW	5	o	29.88	- 0 ⁴	52	50	- 2	NW	5	b	4	57	52	-
Roche fort ...	29.91	57	WNW	4	o	?	?	55	53	0	NW	6	o	*	59	50	0.16
Belfort ...	?	49	W	1	o	?	?	35	28	+ 3	W	1	r	*	50	32	0.04
Lyons ...	29.86	46	E	2	c	29.76	- 2 ⁴	45	45	+ 7	SE	2	r	*	51	?	0.59
Nice ...	29.92	50	Z	0	o	29.82	- 0 ⁸	46	45	+ 1	E	3	r	3	57	45	0.04
Perpignan ...	29.95	50	Z	0	r	29.78	- 1 ³	53	50	- 5	W	3	o	*	59	48	0.12
Biarritz ...	29.95	61	NW	4	r	29.94	- 0 ⁷	59	55	- 2	NW	8	r	4	61	54	0.47
PENIN-SULA.																	
Corunna ...	*	*	*	*	*	30.21	- 0 ⁶	59	54	- 1	N	5	bc	5	66	57	-
Lisbon ...	30.22	62	WNW	5	o	30.21	- 0 ⁶	59	54	- 1	N	5	bc	5	66	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

Saturday 1st November,

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:

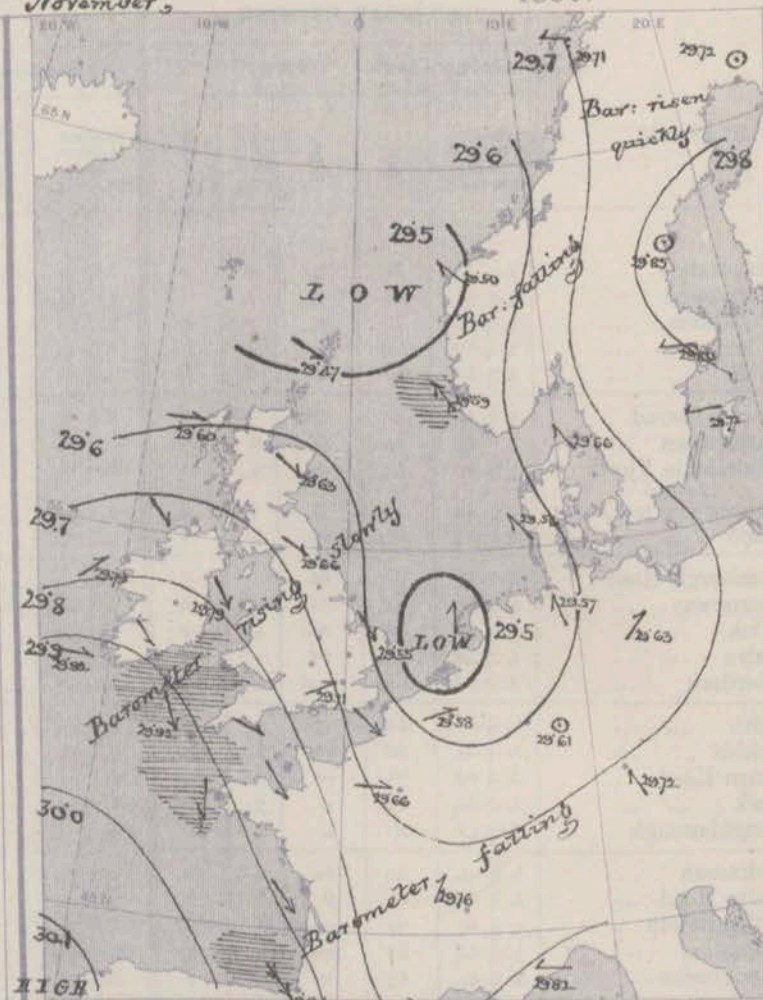
▨ = Rough. ▨ = High.

MEAN HEIGHT OF THE BAROMETER

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

During the 15 Years: 1871—1885.

STATIONS.	MEAN READINGS.
	<i>in.</i>
Sumburgh Head	29.687
Stornoway	29.707
Wick	29.726
Nairn	29.743
Aberdeen	29.756
Leith	29.793
Shields	29.815
York	29.844
Loughborough	29.876
Ardrossan	29.795
Donaghadee	29.811
Holyhead	29.835
Liverpool	29.852
Parsonstown	29.848
Valencia	29.864
Roche's Point	29.864
Pembroke	29.862
Seilly	29.868
Jersey	29.923
Hurst Castle	29.898
Dover	29.893
LONDON	29.897
Oxford	29.894
Cambridge	29.885
Yarmouth	29.863



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.

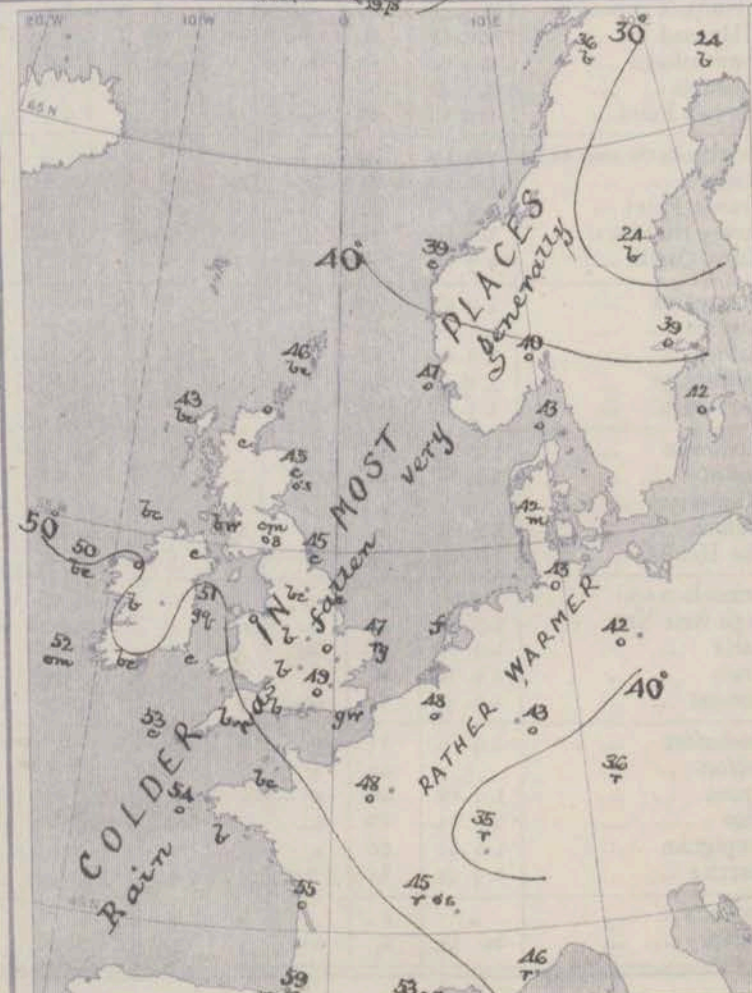
RAINFALL—A dotted line separates the districts in which rain has fallen from those where there has been none. Falls of 0.5 in. or more are quoted in figures.

MEANS OF TEMPERATURE IN SHADE, AND RAINFALL.

(For the month of November.)

STATIONS.	TEMPERATURE.				RAINFALL. (Inches.)
	Daily Max.	Daily Min.	Dry at 8 a.m.	Wet.	
Sumburgh Head	45.3	37.4	41.5	39.8	4.24
Stornoway	45.7	36.7	41.0	39.9	4.00
Wick	45.7	35.7	40.9	39.3	2.07
Nairn	44.7	35.5	39.1	37.5	2.32
Aberdeen	46.1	36.3	40.3	38.5	3.16
Leith	48.2	36.7	41.2	39.6	2.11
Shields	47.1	38.1	41.8	40.2	2.63
York	47.7	36.1	40.3	39.0	2.21
Loughborough	48.0	36.4	40.2	38.9	2.30
Ardrossan	47.7	33.0	42.6	40.8	3.92
Donaghadee	48.2	39.2	42.9	41.7	3.13
Holyhead	49.7	42.8	45.5	43.8	3.71
Liverpool	47.7	39.5	42.1	40.4	2.87
Parsonstown	49.1	36.9	41.7	40.0	2.84
Valencia	52.4	42.7	47.2	45.2	5.50
Roche's Point	51.1	41.8	45.9	44.3	4.56
Pembroke	50.2	43.7	46.7	44.7	3.06
Seilly	52.5	46.7	50.0	48.0	3.76
Jersey	51.9	44.2	47.5	45.0	4.24
Hurst Castle	50.5	40.3	44.6	43.6	2.98
Dover	49.1	40.7	44.0	42.4	3.56
LONDON	49.6	37.9	42.6	40.5	2.14
Oxford	48.6	37.6	41.0	39.7	2.80
Cambridge	48.8	35.7	40.3	39.5	2.02
Yarmouth	47.5	39.1	42.9	41.8	3.15

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



GENERAL SITUATION AT 8 A.M.

PRESSURE	<p>Highest, 30.2 in. and upwards in Portugal.</p> <p>Lowest, 29.5 in. and less, in a large depression lying off the west of Norway and also in a small district one lying off the Dutch coast.</p> <p>Radiant moderate or slight generally.</p> <p>Barometer rising in most parts of the United Kingdom and also in the north of Scandinavia, but falling elsewhere.</p>
TEMPERATURE	<p>Highest, 59° at Llanelli and Linton, 55° at Rochford, 54° at Jersey and Brest, and 53° at Tilly and Perpignan.</p> <p>Lowest, 24° at Haparanda and Hemö and, 35° at Belfast, 36° at Bodo and Munich and 39° at Christiansund and Nisby.</p> <p>During yesterday the thermometer rose to 57° at several of the English stations and to 58° in London and at Shields.</p>
WIND	<p>Light from the West in the north and extreme west of our Islands; moderate from the NWnd over England and the north and west of France.</p> <p>Light from SW. over Germany and the east of France.</p> <p>SE in Scandinavia and Denmark, with a gale at Rudesdal.</p>
WEATHER	<p>Fine over the greater part of the United Kingdom and also in the north of Scandinavia.</p> <p>Drizzle over France, Germany, Denmark and the Netherlands, with fog at the Helder, and rain at Brest, Lyons, and Munich.</p> <p>Rain fell yesterday over nearly the whole of Northern Europe.</p>
SEA	<p>High at Barmouth and rather rough in the Bay of Biscay generally, as well as off the southwest of England.</p>

PROBABLE CHANGES IN SYSTEM NOW PREVALENT

The barometer has now ceased rising at Valencia Island, and the wind is backing in the west and north generally so that a new disturbance is evidently approaching our Islands. Unsettled weather will probably continue for a time in nearly all districts.

FORECASTS

For the 24 hours ending at NOON on 2nd Nov^r 1890.

DISTRICTS.

FORECASTS.

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

W^{ly} to SW^{ly} or S^{ly} winds; fair to dull and rainy.

NW^{ly} to SW^{ly} winds, moderate; fine to dull and some rain.

NW^{ly} to W^{ly} winds, moderate; fair at first but perhaps local showers, dull and unsettled later

DISTRICTS.

FORECASTS.

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

Same as No 2

NW^{ly} to W^{ly} winds, fresh or strong; fair to dull and some rain

SW^{ly} and W^{ly} winds, increasing in force; fair to squally and rainy.

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.	SEA					D.	W.	D.	F.	WEA.	SEA			
Skudesnaes ...	29.66	45	42	SE	8	T	5				Holyhead ...	29.53	55	52	WNW	5	c	4		
Sumburgh Head ...	29.41	47	46	NE	2	O	4				Valencia ...	29.73	86	52	NW	5	c q p	5		
Stornoway ...	29.45	47	46	NE	2	O	3				Scilly ...	29.73	87	56	W	5	bc	4		
Aberdeen ...	29.36	47	46	NW	2	O q d	4				Jersey ...	29.72	57	55	W	3	O	3		
Shields ...	29.37	58	54	NW	3	O	2				Dungeness ...	29.57	54	54	NW	5	T	3		
Ardrossan ...	29.33	32	49	NW	5	O	4				London ...	29.55	58	56	NW	2	om	*		
Malin Head ...	29.48	51	49	NW	4	O	3				Yarmouth ...	29.53	52	51	S	3	af	3		
Mullaghmore ...	29.56	53	51	NW	5	C	4				Rochefort ...	29.88	57	56	NW	3	O	*		
Belmullet ...	29.62	53	51	NW	2	O	*													

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

Weather dull over the greater part of Europe, with mist and rain in many parts of the United Kingdom, and fog on the French side of the Channel as well as at Copenhagen and the Helder. Fair or fine in Sweden and Denmark, as well as in Algeria and the southern parts of Spain and Italy. Rain extending later to France, but some improvement taking place in the west of our Islands.

Temperature highest 65° at Khiridine, 62° at Constantinople, 61° at Athens and Oren, and 60° at Lisbon and Malta; reaching 55° or a little more in the southwest of our Islands. Lowest 30° at Munich, 31° at Havanna and Prague, 32° at Archangel and Belfort, and 33° at Uleaborg and Fiacow; below 40° in most parts of Scandinavia, Russia and Central Europe. Rising during day to 55° or more in nearly all parts of Ireland and England, but not reaching 50° in the north of Scotland.

Wind over Northern and northwestern Europe, showing two distinct cyclonic circulations:—(1) moderate to strong from the NW in the west and southwest of our Islands; S¹ in the east and southeast of England; SE¹ on the eastern shores of the North Sea, variable in Scotland—(2). Fresh or strong from NW or W. over Sweden and Finland; light from SW. over the Baltic Provinces; S¹ or SE¹ over Central and northern Russia. Variable over central and eastern Europe; NW¹ over Spain and the Bay of Biscay; S¹ in Algeria. Subsequently veering to the NW in most parts of our Islands and blowing strongly in the southwest.

Barometer highest 30.2 ins. and upwards, in an anticyclone lying over and to the westward of Portugal; 30.1 ins. and upwards, in another system lying over the south of Russia. Lowest, 28.9 ins. and less, in a rather deep depression lying over Lapland; 29.5 ins. and less in a large shallow disturbance lying over the north of our Islands. Latter system subsequently moving slowly eastwards and spreading down in a southeasterly direction over the North Sea.

EXPLANATION OF COLUMNS GIVEN ON PAGE 1.

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

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

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

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

DAILY WEATHER REPORT.

for Sunday 2nd Nov^r 1890.
 Issued by the Meteorological Office, 63, Victoria Street, London. R. H. SCOTT, Secretary.

STATIONS.		YESTERDAY EVENING.					8 A.M. TO DAY.										PAST 24 HOURS.		
		BAROM. Reading at 32° F. and Sea Level.	TEMP. Dry.	WIND.		Weather.	BAROMETER.		SHADE TEMP.			WIND.		Weather.	Sea. (0 to 4.)	SHADE TEMP.		Amount of Rainfall.	
				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 ...	29.87	23	Z	0	0	29.84	+ .12	25	25	+ 1	E	2	f	*	32	18	—	
	Hernösand ...	29.77	35	Z	0	0	29.68	— .17	35	35	+ 11	Z	0	r	*	45	?	0.04	
	Stockholm ...	29.65	40	NE	2	0	29.70	— .10	39	38	0	Z	0	o	*	43	34	0.04	
	Wisby ...	29.57	40	E	4	0	29.69	— .03	43	43	+ 1	NNW	2	r	*	43	34	0.20	
	Bodo ...	29.58	37	E	4	0	29.50	— .21	37	33	+ 1	ESE	5	c	2	37	34	—	
	Christiansund	29.43	45	SW	3	0	29.28	— .22	43	40	+ 4	ESE	5	r	3	45	?	—	
	Skudesnaes ...	29.57	45	SE	8	0	29.28	— .31	48	45	+ 1	SE	8	o	6	?	?	0.16	
	Christiania Fjord (Færder)	29.70	40	NNE	2	c	29.60	— .12	42	41	+ 2	ESE	5	o	3	?	39	—	
	Skagen (The Seaw)	29.67	43	SSE	1	bc	29.57	— .09	45	43	+ 2	S	2	o	2	45	41	—	
	Fanø ...	29.64	41	ESE	4	c	29.52	— .04	43	43	+ 1	SSE	5	f	*	45	41	—	
BRITISH ISLANDS.	Sumburgh Head	29.43	46	S	1	b	28.69	— .78	49	49	+ 3	SSE	7	r	7	57	44	0.29	
	Stornoway ...	29.30	49	S	6	r	28.71	— .89	48	47	+ 5	W	4	o	4	50	40	1.00	
	Wick ...	29.38	50	S	4	o	28.70	— .90	49	49	+ 6	W	2	r	3	51	42	0.32	
	Nairn ...	29.39	47	W	3	r	28.73	— .89	49	48	+ 3	WSW	2	r	1	54	44	0.22	
	Aberdeen ...	29.50	46	S	2	b	28.80	— .83	50	49	+ 5	SSW	3	oup	5	53	44	0.32	
	Leith ...	29.55	45	W	1	o	28.85	— .82	49	47	+ 4	W	5	c	*	55	44	0.26	
	Shields ...	29.65	50	W	2	m	28.94	— .72	50	49	+ 5	SW	2	op	2	55	43	0.31	
	Spurn Head ...	29.68	48	WNW	2	b	29.09	— .52	52	51	+ 4	SSW	6	ow	5	52	42	0.13	
	York ...	29.70	48	NE	1	b	29.03	— .63	53	51	+ 7	W	4	c	*	56	41	0.32	
	Loughborough	29.76	47	WNW	1	b	29.14	— .57	55	54	+ 10	SW	4	ry	*	57	41	0.20	
GERMANY & HOLLAND.	Ardrossan ...	29.53	51	S	4	o	28.93	— .77	50	46	0	W	4	o	3	55	47	0.73	
	Malin Head ...	29.38	50	S	6	op	28.94	— .80	47	44	— 2	WNW	5	cp	3	57	44	0.60	
	Mullaghmore ...	29.44	55	SSW	6	og	29.06	— .73	50	45	0	W	7	cq	6	59	47	0.89	
	Belmullet ...	29.37	54	WSW	2	r	29.11	— .68	49	46	— 1	WNW	7	c	*	56	46	0.90	
	Donaghadee ...	29.58	50	SW	3	o	29.07	— .69	46	45	— 2	SW	3	o	1	55	46	0.57	
	Liverpool (Bidston)	29.72	49	SW	2	bc	29.09	— .65	49	47	0	W	6	c	3	56	44	0.49	
	Holyhead ...	29.67	51	SSW	2	bc	29.14	— .65	49	47	— 2	W	5	cq	5	56	49	0.72	
	Parsonstown ...	29.60	54	Z	0	o	29.22	— .65	45	43	+ 4	Z	0	bc	*	56	40	0.67	
	Valencia ...	29.64	55	SSW	6	rym	29.39	— .53	51	47	— 1	WNW	6	cq	6	58	47	0.61	
	Roche's Point...	29.70	55	WSW	3	o	29.34	— .57	50	47	0	WNW	4	bc	4	57	49	0.30	
FRANCE AND BELGIUM.	Pembroke (St. Ann's Hd.)	29.76	53	SW	4	o	29.26	— .60	53	51	+ 2	W	7	cq	6	56	50	0.34	
	Scilly ...	29.84	55	SSW	4	m	29.43	— .49	55	53	+ 2	WNW	7	ow	5	56	52	0.19	
	Prawle Point ...	29.88	48	NNW	3	b	29.36	— .50	53	53	+ 2	W	7	ow	5	57	46	0.25	
	Jersey (St. Aubin's)	29.90	53	NNW	3	bc	29.47	— .35	57	56	+ 3	SW	7	ow	5	58	50	0.11	
	Hurst Castle ...	29.83	49	NNW	3	b	29.32	— .45	56	56	+ 9	SW	8	ow	5	57	46	0.14	
	Dungeness ...	29.78	45	NNW	3	c	29.40	— .27	53	52	+ 4	SW	7	r	6	53	45	0.01	
	London ...	29.79	47	WSW	1	b	29.29	— .42	55	54	+ 6	SSW	4	r	*	55	41	0.07	
	Oxford ...	29.78	45	NNW	2	b	29.23	— .57	55	54	+ 8	SW	2	ow	*	55	41	0.12	
	Cambridge ...	29.76	46	NNW	1	b	29.22	— .47	53	52	+ 5	S	2	o	*	54	38	0.09	
	Yarmouth ...	29.72	48	NNW	2	c	29.30	— .25	50	49	+ 3	SSW	6	ow	4	56	40	0.18	
PENINSULA.	Cuxhaven ...	29.63	45	E	3	o	29.61	+ .04	46	45	+ 3	S	2	f	*	47	43	—	
	Berlin ...	29.71	46	SW	2	o	29.73	+ .10	44	43	+ 2	SSW	2	f	*	50	42	—	
	Wiesbaden ...	*	*	*	*	*	29.78	+ .17	45	44	+ 2	Z	0	o	*	50	39	—	
	Munich ...	29.85	42	SW	2	o	29.91	+ .19	38	37	+ 2	SW	2	bc	*	50	34	—	
	The Helder ...	29.63	51	N	1	f	29.48	+ .02	45	44	— 3	S	2	c	3	54	45	0.04	
	Brussels (9 a.m.)	*	*	*	*	*	29.61	+ .03	45	44	— 3	S	5	o	*	50	41	0.08	
	Cape Gris Nez	29.78	52	N	4	o	29.51	+ .09	50	49	0	? SW	6	o	5	54	50	—	
	Paris ...	29.88	50	WNW	2	o	29.75	+ .09	43	42	— 5	SSW	2	c	*	53	39	—	
	Brest ...	29.95	54	NNW	1	f	29.54	?	57	57	+ 3	SW	5	r	5	?	50	0.04	
	Lorient ...	29.97	54	WNW	4	o	29.63	— .25	57	56	+ 5	WSW	5	r	5	?	52	0.04	
PENINSULA.	Rocheport ...	30.05	55	WNW	5	c	29.85	?	52	?	— 3	WNW	5	r	5	59	45	0.08	
	Belfort ...	29.74	49	W	1	o	?	?	38	33	+ 3	W	1	r	*	50	32	0.16	
	Lyons ...	29.88	48	WNW	1	o	29.97	+ .21	43	41	— 2	WNW	1	bc	*	51	42	0.16	
	Nice ...	29.80	48	NE	5	m	29.80	— .02	52	45	+ 6	E	2	c	4	50	45	0.24	
	Perpignan ...	29.88	55	W	3	o	29.92	+ .14	52	47	— 1	NNW	2	b	*	60	50	—	
	Biarritz ...	30.03	58	NNW	5	o	29.98	+ .04	54	53	— 5	SW	5	rf	5	61	52	0.67	
	Corunna ...	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	
Lisbon ...	30.16	58	NNW	6	b	30.22	+ .01	57	55	— 2	NNE	3	c	5	64	55	—		

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

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

WEATHER CHARTS

for 8 a.m. on

Sunday, 2nd November,

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:

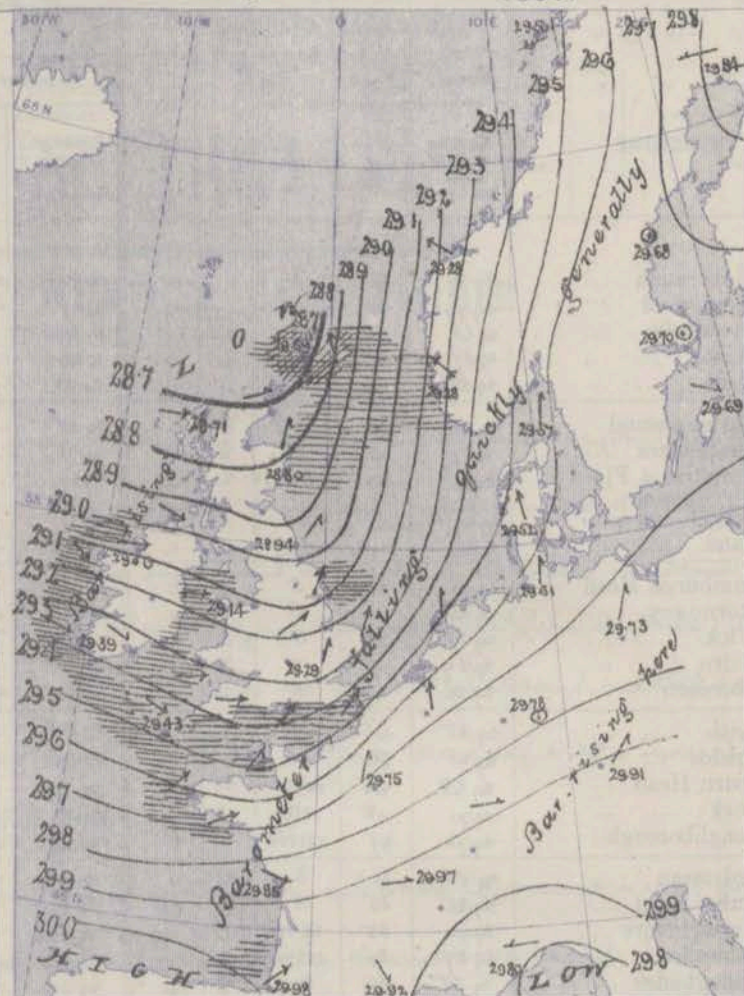
■ = Rough. ■ = High.

MEAN HEIGHT OF THE BAROMETER

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

During the 15 Years: 1871—1885.

STATIONS.	MEAN READINGS.
Sumburgh Head	29.687
Stornoway	29.707
Wick	29.726
Nairn	29.743
Aberdeen	29.756
Leith	29.793
Shields	29.815
York	29.844
Loughborough	29.876
Ardrossan	29.795
Donaghadee	29.811
Holyhead	29.835
Liverpool	29.852
Parsonstown	29.848
Valencia	29.864
Roches Point	29.864
Pembroke	29.862
Scilly	29.898
Jersey	29.923
Hurst Castle	29.898
Dover	29.893
LONDON	29.897
Oxford	29.893
Cambridge	29.885
Yarmouth	29.863



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.

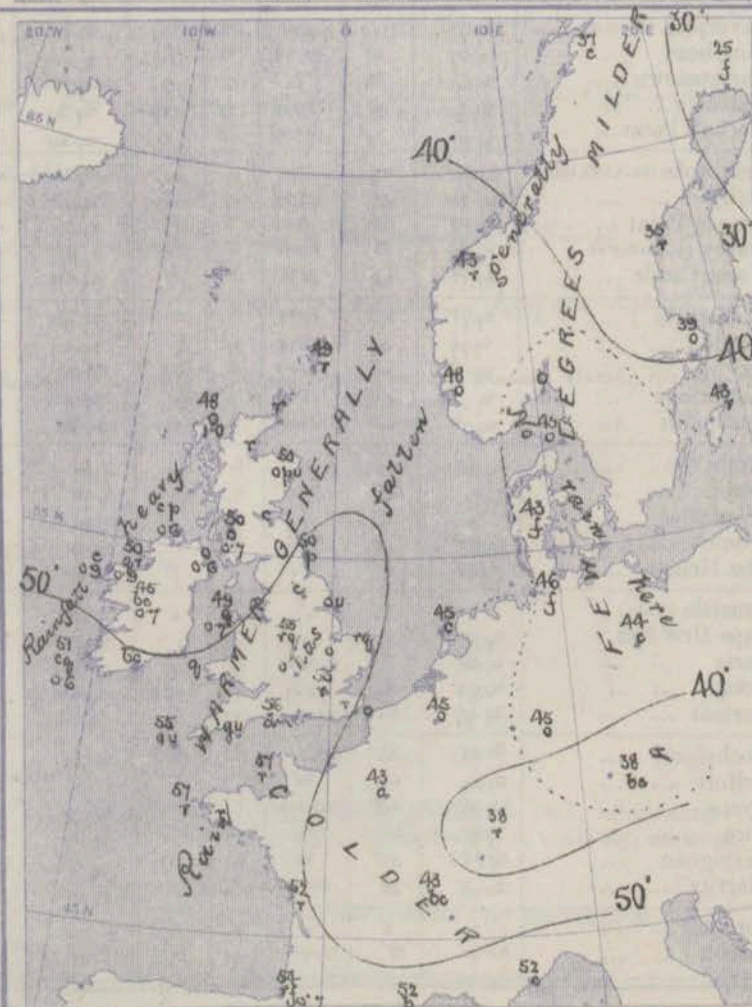
RAINFALL—A dotted line separates the districts in which rain has fallen from those where there has been none. Falls of 0.5 in. or more are quoted in figures.

MEANS OF TEMPERATURE IN SHADE, AND RAINFALL.

(For the month of November.)

STATIONS.	TEMPERATURE.				RAINFALL. (Inches.)
	Daily Max.	Daily Min.	at 8 a.m.		
			Dry.	Wet.	
Sumburgh Head.....	45.3	37.4	41.5	39.8	4.24
Stornoway.....	45.7	36.7	41.0	39.9	4.60
Wick.....	45.7	35.7	40.9	39.3	2.97
Nairn.....	44.7	35.5	39.1	37.5	2.32
Aberdeen.....	46.1	36.3	40.3	38.5	3.16
Leith.....	48.2	36.7	41.2	39.6	2.11
Shields.....	47.1	38.1	41.8	40.2	2.63
York.....	47.7	36.1	40.5	39.0	2.21
Loughborough.....	48.0	36.4	40.2	38.9	2.30
Ardrossan.....	47.7	38.9	42.6	40.8	3.92
Donaghadee.....	48.2	39.2	42.9	41.7	3.13
Holyhead.....	49.7	42.8	45.5	43.8	3.71
Liverpool.....	47.7	39.5	42.1	40.4	2.87
Parsonstown.....	49.1	36.9	41.7	40.0	2.84
Valencia.....	52.4	42.7	47.2	45.2	5.50
Roch's Point.....	51.1	41.8	45.9	44.4	4.56
Pembroke.....	50.2	43.7	46.7	44.7	3.98
Scilly.....	52.5	45.7	50.0	48.0	3.79
Jersey.....	51.9	44.2	47.5	45.6	4.24
Hurst Castle.....	50.5	40.3	44.6	43.0	2.98
Dover.....	49.1	40.7	44.0	42.4	3.56
LONDON.....	49.6	37.9	42.0	40.5	2.14
Oxford.....	48.6	37.0	41.0	39.7	2.30
Cambridge.....	48.8	35.7	40.3	38.5	2.02
Yarmouth.....	47.5	39.1	42.9	41.8	3.15

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, 30.2 in and upwards in Portugal; 29.8 in and upwards in the north of Sweden.
Lowest, 28.7 in and less, in a depression the centre of which lies off the north of Scotland.
Gradients rather steep over the whole of Northwestern Europe, but slight in the south.

TEMPERATURE

Barometers rising in the extreme west and northwest of our Islands and also in Germany but falling elsewhere - quickly in the east of Britain.
Highest, 57° at Jersey, Brest, Lorient and Lisbon, 56° at Hurst Castle, and 55° at Loughborough, Oxford, Killybegs and in London.
Lowest, 25° at Haparanda, 35° at Helsingfors, 37° at Rostock, 38° at Belfort and Munich, and 39° at Stockholm.
 The highest maxima registered over our Islands yesterday were 55° at Mullaghmore, and 58° at Kilmara Island and Jersey.

WIND

Weak or strong from the W. in the west and north of our Islands, but from the S.W. in the east and south with a gale in the channel.
 S. or S.E. on the eastern shores of the North Sea, with a gale at Shetland; variable in Sweden and also in the north of France.
 A strong gale from the S.W. was experienced last night on the extreme west coast of Ireland and Scotland, and a fresh gale in the west and north generally.

WEATHER

Cloudy, squally, and unsettled generally, with rain in Sweden, the north of Scotland, the southeast of England, and the north of France, and passing showers in many other localities. Foggy over Germany and the south of Denmark.
 Since yesterday morning rain has fallen generally, the largest amount being 1.0 in. at Portsmouth, and 0.9 in. at Mullaghmore and Kilmara.

SEA

High at Lumburg Hd. and rough or rather so on nearly all our coasts.

PROBABLE CHANGES IN SYSTEM NOW PREVALENT

FORECASTS

For the 24 hours ending at NOON on 3rd Nov^r 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.

- † SCOTLAND WEST
- † ENGLAND N.W.
- † ENGLAND S.W.
- † IRELAND NORTH
- † IRELAND SOUTH

WARNINGS

FORECASTS.

NONE ISSUED.

The SOUTH CONE was hoisted yesterday on all our coasts.

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

YESTERDAY'S 2 P.M. REPORTS.

	BAR.	THER.		WIND		WEA.	SEA		BAR.	THER.		WIND		WEA.	SEA
		D.	W.	D.	F.					D.	W.	D.	F.		
Skudesnaes ...	29.60	45	42	SE	8	o	5	Holyhead ...	29.79	52	48	WNW	2	b	2
Sumburgh Head ...	29.50	47	46	W	1	bc	3	Valencia ...	29.81	50	50	W	3	ond	3
Stornoway ...	29.47	50	48	SW	3	c	3	Scilly ...	29.92	55	54	W	4	o	4
Aberdeen ...	29.61	52	46	WNW	1	bc	2	Jersey ...	29.90	58	53	WNW	4	c	3
Shields ...	29.67	54	48	WNW	2	b	2	Dungeness ...	29.74	52	48	WNW	3	c	2
Ardrossan ...	29.66	52	48	WNW	3	c	2	London ...	29.76	55	50	WNW	3	b	3
Malin Head ...	29.62	57	48	S	4	o	2	Yarmouth ...	29.65	49	48	W	4	omg	4
Mullaghmore ...	29.64	53	50	SW	5	o	3	Rochefort ...	29.91	57	54	W	4	c	2
Belmullet ...	29.64	52	52	SW	3	r	*								

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

Weather in a changeable condition over the United Kingdom and Europe generally. Fine and bright in morning at many of our own stations, as well as over Lapland, the northern parts of Sweden, Spain, and Southern Russia, very foggy over Southeastern Europe, cloudy or overcast elsewhere, with rain over the Western Baltic, the southern half of France and at several of the Mediterranean stations. Rain later over the British Islands and France — heaviest in Scotland and Ireland, and a great deal at several of the Mediterranean stations, smaller quantities locally except over the Iberian Peninsula and Austria. Lightning in the west of Scotland.

Temperature changing very fitfully except over the most southern countries. Morning readings exceeding 60° at Pondichie and Malta only, but exceeding 50° over the western parts of the British Isles. France and the Iberian Peninsula, the southern half of Italy, and at some of the Black Sea stations. Lower elsewhere, and as low as (1) 24° at Kaparanda and Herisand, 31° at Kuopio, 32° at Helsingfors, 33° at Moscow, 35° at Riga, 39° at Herisand — (2) 35° at Belfast, 36° at Munich, and 37° at Prague and Vienna. Rising to between 50° and 60° over our Islands and France during day and to 70° over the southern parts of Italy and in Algeria.

Wind moderate to fresh from the NWth over the British Islands, Spain, and the west of France, light Sth over North Germany, SEth over the Baltic and Scandinavia, NWth in the north of Russia; Eth in the south of France and northern Italy, variable elsewhere. Backing Sth on our west coasts later, and increasing to a gale; NWth wind over England backing to a calm.

Barometer highest 30.2 ins. to 29.9 ins. over the Spanish Peninsula, Bay of Biscay, and southwest of our Islands, 30.3 ins. to 30.0 ins. over Russia; lowest, 29.5 ins. and less, in a depression over the Shetlands and off the west of Norway, as well as in a small depression near the Helles, 29.8 ins. and less, in the south of France. New depression approaching our northern coasts later and barometer falling very fast throughout 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, 3rd November, 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.	Dir.	Force. (0 to 12.)			Reading at 29° 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 ...	29.82	28	NE	2	0	29.79	-.05	30	30	+5	SE	2	5	*	*	32	19	-
	Hernösand ...	29.71	38	Z	0	0	29.71	+.03	36	36	+1	Z	0	+	*	*	41	34	0.12
	Stockholm ...	29.73	39	Z	0	0	29.68	-.02	41	40	+2	E	2	0	+	*	43	36	-
	Wishy ...	29.67	42	NW	4	0	29.63	-.06	45	44	+2	SSE	4	0	+	*	45	39	0.04
	Bodo ...	29.43	41	ENE	6	0	29.41	-.09	41	37	+4	E	4	6c	2	*	44	?	-
	Christiansund ...	29.19	46	ESE	4	6c	29.23	-.05	48	43	+5	NW	2	6	3	*	48	?	-
	Skudesnaes ...	29.19	51	SE	8	0	29.29	+.01	50	46	+2	SE	6	0	5	*	52	48	-
	Christiania Fjord (Farther) ...	29.48	45	ESE	5	0	29.48	-.12	46	45	+4	ESE	3	0	3	*	?	?	-
	Skagen (The Scaw) ...	29.41	47	S	5	0	29.42	-.15	47	46	+2	SSE	3	c	3	*	48	45	0.04
	Fanø ...	29.29	46	SSE	6	0	29.31	-.21	45	45	+2	SSE	4	0	*	*	48	43	-
BRITISH ISLANDS.	Sumburgh Head ...	28.64	48	Z	0	0	29.28	+.59	40	39	-9	N	3	0	5	*	51	39	0.12
	Stornoway ...	29.11	40	N	7	+	29.39	+.68	36	36	-12	W	2	0	3	*	50	32	0.68
	Wick ...	28.90	45	NW	5	0	29.42	+.72	38	36	-11	W	4	0	4	*	51	36	0.15
	Nairn ...	29.00	45	W	4	6c	29.46	+.73	38	35	-11	NW	2	c	1	*	51	35	0.01
	Aberdeen ...	29.03	46	SW	2	c	29.47	+.67	37	34	-13	W	2	6c	2	*	52	35	0.02
	Leith ...	29.07	50	W	2	b	29.51	+.66	37	35	-12	W	1	m	*	*	52	36	-
	Shields ...	29.12	47	W	1	6m	29.50	+.56	36	34	-14	NW	3	c	2	*	52	34	-
	Spurn Head ...	29.17	47	SW	3	b	29.55	+.46	42	40	-10	NW	5	6c	4	*	53	40	0.02
	York ...	29.20	46	NW	1	b	29.57	+.54	39	36	-14	W	1	b	*	*	54	35	-
	Loughborough ...	29.25	45	NW	2	b	29.64	+.50	42	40	-13	W	2	c	*	*	55	38	0.10
BRITISH ISLANDS.	Ardrossan ...	29.18	46	W	6	c	29.49	+.56	40	38	-10	E	2	of	1	*	52	38	0.01
	Malin Head ...	29.29	45	NW	7	oq/p	29.43	+.49	41	40	-6	S	4	0	4	*	49	41	0.03
	Mullaghmore ...	29.34	46	NW	8	cq/r	29.46	+.40	41	40	-9	S	5	oq/r	4	*	54	41	0.14
	Belmullet ...	29.56	47	NW	7	o/p	29.35	+.24	45	44	-4	S	6	o/p	*	*	50	42	0.20
	Donaghadee ...	29.28	47	N	6	0	29.53	+.46	38	37	-8	SW	3	c	2	*	52	34	0.04
	Liverpool (Bidston) ...	29.18	51	W	7	0	29.59	+.50	44	41	-5	NW	3	0	4	*	51	43	0.13
	Holyhead ...	29.23	49	NW	8	cq	29.59	+.45	45	41	-4	NW	3	oq	3	*	52	44	0.01
	Parsonstown ...	29.52	44	Z	0	b	29.53	+.31	42	41	-3	Z	0	r	*	*	51	38	0.19
	Valencia ...	29.68	48	NW	5	cq	29.50	+.11	56	56	+5	SW	5	om	5	*	54	43	0.55
	Roche's Point ...	29.58	50	NW	5	b	29.59	+.25	52	52	+2	SW	4	r	4	*	55	47	0.60
BRITISH ISLANDS.	Pembroke (St. Ann's Hd.) ...	29.44	52	NW	7	c	29.67	+.41	49	47	-4	NW	4	0	4	*	53	47	0.04
	Scilly ...	29.56	53	NW	7	6c	29.73	+.30	53	52	-2	SW	5	0	5	*	55	51	0.02
	Prawle Point ...	29.46	49	NW	6	6c	29.76	+.40	47	43	-6	W	2	c	2	*	54	39	0.06
	Jersey (St. Aubin's) ...	29.47	53	NW	5	cq/rm	29.81	+.34	50	45	-7	W	4	cq/rm	3	*	58	47	0.20
	Hurst Castle ...	29.37	50	NW	6	6c	29.72	+.40	45	44	-11	NW	4	b	4	*	56	44	0.22
	Dungeness ...	29.27	53	NW	4	c	29.64	+.24	41	39	-12	NW	4	6c	3	*	54	38	0.13
	London ...	29.30	46	W	2	b	29.67	+.38	40	38	-15	W	1	6c	*	*	56	38	0.10
	Oxford ...	29.35	47	W	3	6c	29.69	+.46	39	36	-18	W	2	b	*	*	56	36	-
	Cambridge ...	29.30	48	S	1	b	29.65	+.43	40	39	-13	W	1	b	*	*	57	37	-
	Yarmouth ...	29.20	48	NW	2	cm	29.60	+.30	41	40	-9	NW	3	cq/rm	3	*	52	38	0.16
GERMANY & HOLLAND.	Cuxhaven ...	29.43	46	SSW	5	0	29.39	-.22	47	47	+1	SW	1	6	*	*	51	45	-
	Berlin ...	29.59	46	ESE	4	0	29.51	-.22	43	42	-1	ESE	2	0	*	*	52	41	-
	Wiesbaden ...	*	*	*	*	*	29.67	-.11	48	45	+3	SW	4	c	*	*	54	45	0.28
	Munich ...	29.62	38	SE	2	b	29.72	-.19	44	42	+6	SW	6	0	*	*	50	34	0.04
	The Helder ...	29.21	50	NW	2	c	29.47	-.01	49	47	+4	NW	1	b	2	*	50	45	0.28
	Brussels (9 a.m.) ...	*	*	*	*	*	29.58	-.03	44	43	-1	SW	3	0	*	*	50	41	0.32
	Cape Gris Nez ...	29.30	51	NW	6	6c	29.62	+.11	46	43	-4	NW	6	6c	6	*	55	45	0.28
	Paris ...	29.43	49	SW	2	0	29.73	-.02	44	43	+1	SE	2	c	*	*	52	?	0.59
	Brest ...	29.60	54	W	5	r	29.84	+.30	52	50	-5	NW	1	b	5	*	64	48	0.16
	Lorient ...	29.65	53	NW	5	6c	29.89	+.26	52	48	-5	NW	2	b	4	*	57	50	0.08
FRANCE AND BELGIUM.	Rochefort ...	29.74	52	NW	6	c	29.88	+.03	55	51	+3	NW	5	0	*	*	59	34	0.24
	Belfort ...	29.89	48	W	3	r	29.77	+.03	45	34	+7	W	1	r	*	*	51	36	0.39
	Lyons ...	29.66	47	S	3	r	29.86	-.11	44	42	+1	W	1	c	*	*	55	43	0.43
	Nice ...	29.81	54	SW	2	c	29.64	-.16	46	45	-6	E	3	c	2	*	63	45	0.12
	Perpignan ...	29.81	53	E	2	0	29.90	-.02	54	48	+2	NW	3	6c	*	*	63	50	0.28
	Biarritz ...	29.82	59	W	7	r	29.98	+.00	59	55	+5	NW	5	0	4	*	61	54	0.71
	Corunna ...	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Lisbon ...	30.19	62	NW	3	0	30.20	-.02	62	61	+5	NW	2	r	5	*	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, 3rd November,*

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:

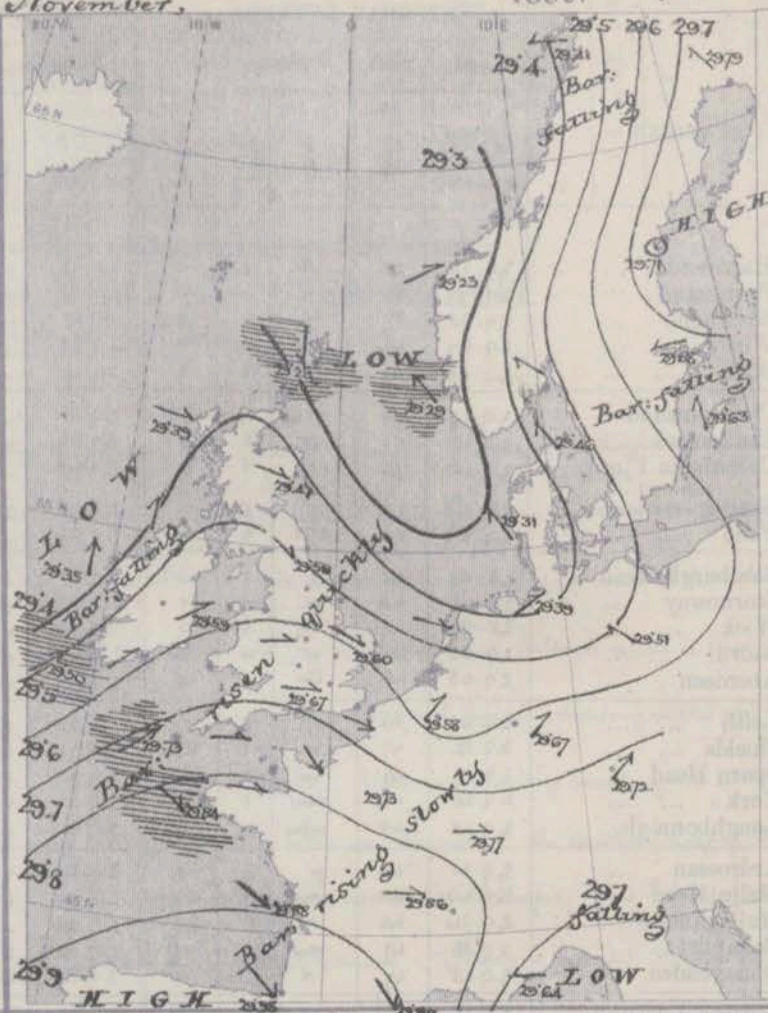
▨ = Rough. ▨ = High.

MEAN HEIGHT OF THE BAROMETER

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

During the 15 Years: 1871—1885.

STATIONS.	MEAN READINGS.
Sumburgh Head	29.657.
Stornoway	29.707.
Wick	29.728.
Nairn	29.743.
Aberdeen	29.756.
Leith	29.793.
Shields	29.815.
York	29.844.
Loughborough	29.876.
Ardrossan	29.795.
Donaghadee	29.811.
Holyhead	29.835.
Liverpool	29.852.
Parsonstown	29.848.
Valencia	29.864.
Rocha's Point	29.864.
Pembroke	29.862.
Scilly	29.808.
Jersey	29.923.
Hurst Castle	29.898.
Dover	29.893.
LONDON	29.897.
Oxford	29.893.
Cambridge	29.885.
Yarmouth	29.863.



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.

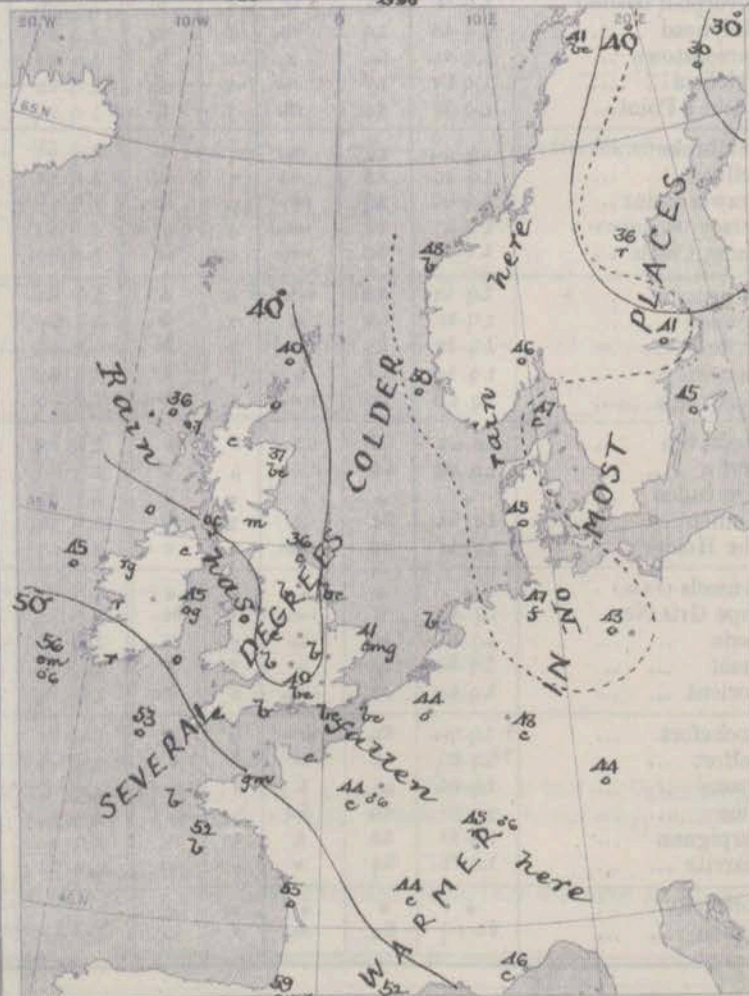
RAINFALL—A dotted line separates the districts in which rain has fallen from those where there has been none. Falls of 0.5 in. or more are quoted in figures.

MEANS OF TEMPERATURE IN SHADE, AND RAINFALL.

(For the month of November.)

STATIONS.	TEMPERATURE.				RAINFALL (Inches.)
	Daily Max.	Daily Min.	at 8 a.m. Dry.	Wet.	
Sumburgh Head	45.3	37.4	41.5	39.8	4.24
Stornoway	45.7	36.7	41.0	39.9	4.60
Wick	45.7	35.7	40.9	39.3	2.97
Nairn	44.7	35.6	39.1	37.5	2.32
Aberdeen	46.1	36.3	40.2	38.5	3.10
Leith	48.5	36.7	41.2	39.6	2.11
Shields	47.1	38.1	41.8	40.2	2.63
York	47.7	36.1	40.3	39.0	2.21
Loughborough	48.0	36.1	40.2	38.9	2.30
Ardrossan	47.7	33.9	42.6	40.8	3.92
Donaghadee	48.2	39.2	42.9	41.7	3.13
Holyhead	49.7	42.8	45.5	43.8	3.71
Liverpool	47.7	39.5	42.1	40.4	2.87
Parsonstown	49.1	36.9	41.7	40.0	2.84
Valencia	52.4	42.7	47.2	45.2	5.50
Rocha's Point	51.1	41.8	45.9	44.3	4.56
Pembroke	50.2	43.7	46.7	44.7	3.96
Scilly	52.5	40.7	50.0	48.0	3.76
Jersey	51.9	44.2	47.5	45.6	4.24
Hurst Castle	50.5	40.3	44.0	43.0	2.98
Dover	49.1	40.7	41.0	42.4	3.56
LONDON	49.6	37.9	42.0	40.5	2.14
Oxford	48.6	37.6	41.0	39.7	2.30
Cambridge	48.8	35.7	40.3	39.5	2.02
Yarmouth	47.6	39.1	42.0	41.8	3.15

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



GENERAL SITUATION AT 8 A.M.

PRESSURE	<p>Highest, 30.0 in. to 30.2 in. over the Spanish Peninsula.</p> <p>Lowest, 29.3 in. and less, in a depression lying off the west and south of Norway, 29.4 in. and less, in another disturbance lying off our northwest coasts.</p> <p>Gradient moderate or slight generally.</p> <p>Barometer falling in Ireland and also in Sweden, but rising elsewhere.</p>
TEMPERATURE	<p>Highest, 62° at Lisbon, 59° at Barmby, 56° at Valencia, 55° at Rochefort, and 53° at Scilly.</p> <p>Lowest, 30° at Kaparanda, 36° at Remond, Stenway, and Shields, and 31° at Aberdeen, Leith and Oxford.</p> <p>The highest maxima registered over our Islands yesterday were 58° at Jersey, 57° at Cambridge, and 56° in London and at Oxford.</p>
WIND	<p>S. or S.W. on our western coasts; strong in force in the west of Ireland.</p> <p>Light or moderate from the West or N.W. in all the more eastern parts of our Islands and also over France.</p> <p>S.E. in Scandinavia and Denmark; S.W. in Germany.</p>
WEATHER	<p>Fine in the eastern and southeastern parts of Great Britain as well as in the south of France.</p> <p>Dull elsewhere with rain in Ireland as well as at Remond and Belfast.</p> <p>Rain fell yesterday in nearly all parts of Western Europe and lightning was seen at Havre-Breut at night.</p>
SEA	<p>Rather rough on our extreme northern and southwestern coasts, but moderate to smooth elsewhere.</p>

PROBABLE CHANGES IN SYSTEM NOW PREVALENT

The new depression which is approaching our western coast will probably move eastwards, and occasion a considerable increase of wind from the S.W. and West over Ireland and England. Heavy rain is probable in many districts.

FORECASTS

For the 24 hours ending at NOON on 4th NOV^r 1890.

DISTRICTS.

FORECASTS.

10	SCOTLAND NORTH	} Wind backing to the S. and freshening; fair to dull and rainy.
11	SCOTLAND EAST	
12	ENGLAND N.E.	} Same as N°5
13	ENGLAND EAST	
14	MIDLAND COUNTIES	
15	ENGLAND SOUTH	W. to S.W. winds, increasing in force; fair to squally and rainy.

DISTRICTS.

FORECASTS.

6	SCOTLAND WEST	} S. to W. or N.W. strong winds and gales; squally and rainy at first some improvement later.
7	ENGLAND N.W.	
8	ENGLAND S.W.	S.W. to W. winds, increasing in force; squally, showery.
9	IRELAND NORTH	Same as N°6 and 7.
10	IRELAND SOUTH	Same as N°8.

WARNINGS

The SOUTH CONE was hoisted on Saturday on all coasts, and the signals are still flying.

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 ...	29.19	50	46	SE	8	0	6	Holyhead ...	29.18	51	47	W	5	0	4
Sumburgh Head ...	29.19	50	46	SE	8	0	6	Valencia ...	29.18	51	47	W	5	0	4
Stornoway ...	29.14	45	44	NW	7	1	6	Scilly ...	29.12	53	50	W	5	0	4
Aberdeen ...	29.14	45	44	NW	7	1	6	Jersey ...	29.27	54	51	W	5	0	4
Shields ...	29.02	46	45	NW	7	0	4	Dungeness ...	29.27	54	51	W	5	0	4
Ardrossan ...	29.02	46	45	NW	7	0	4	London ...	29.75	59	59	NW	6	1	4
Melin Head ...	29.02	46	45	NW	7	0	4	Yarmouth ...	29.75	59	59	NW	6	1	4
Mullaghmore ...	29.38	48	44	NW	7	c p	*	Rocheport ...	29.75	59	59	NW	6	1	4
Belmullet ...	29.38	48	44	NW	7	c p	*								

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

Weather showing some (temporary) improvement over a few districts but rough, wet and unsettled over the British Islands, the west and north of France and the North Sea, as well as at St. Petersburg; dull and unsettled over the Mediterranean also, but fine over Spain, and foggy in many parts of southeastern Europe. Rain falling very generally over western Europe later (heaviest in France and the south of Ireland) but sky subsequently clearing in many places. Lightning seen at Pwll Point.

Temperature still changing frequently and considerably. Morning readings exceeding 60° at Brindisi, Palermo and Malta only, and exceeding 50° on the Spanish and French coasts, the south and southwest of our Islands, and in Italy. Lower generally elsewhere; lowest (1) 22° at Uleaborg, 32° at Archangel, 33° at Kuopio, 35° at Hernösand, 39° at Stockholm and Moscow; (2) 34° at Cracow, 35° at Warsaw, 36° at Vienna, 38° at Belfort and Munich. Falling decidedly over the British Islands later and to a smaller extent over France.

Wind strong to a gale from W. at our western stations, from SW. in the south, from a more southern point on our east coasts, from S. at Sumburgh H. and from SE in Norway; very variable and light over Russia and central Europe. Cyclonic circulation of moderate breezes over the Mediterranean. Gale veering to NW. and N. at our western stations later, and veering to W. and moderating in the Channel.

Barometer highest 30.2 ins. to 30.0 ins. over the Iberian Peninsula, also over southern Russia, and varying between 29.9 ins. and 30.0 ins. in a "col" stretching across the south of France, Switzerland and northern Italy to southeastern Europe. Lowest 28.7 ins. and less in a depression having its centre off the north of Scotland and about 29.7 ins. in another over Sardinia. Northern depression moving eastwards to Norway later and filling up partially.

SUMMARY OF CHANGES IN THE WEATHER OVER THE BRITISH ISLANDS AND THEIR NEIGHBOURHOOD FROM THE 26TH OCT. TO 1ST NOV. 1850.

The weather of the past week has been very changeable and unsettled, with strong winds or gales in most parts of the Kingdom, frequent rainfall and a little snow.

At the commencement of the period some large depressions were travelling across Scandinavia, while secondary disturbances were passing southward over our Islands. In the rear of the latter the wind over our Islands shifted to the northward and blew with the force of a gale on nearly all our coasts, with snow squalls in many districts. In the west of Ireland the N. gale which blew on the morning of the 26th was very severe.

As the disturbances travelled away the barometer rose decidedly, and on the 27th and 28th an anticyclone travelled in a southeasterly direction across the western and southern parts of the United Kingdom to France. The prevalence of this system was marked by fog at some of our inland stations, and by sharp frosts over England, the sheltered thermometer on the morning of the 28th falling to 20° at Loughborough, to 23° at Dungeness and Bexford, and to 24° in London. On the surface of the ground the thermometer in London fell to 15°.

As the anticyclone passed away to the southward some further large depressions began to skirt our extreme northern coasts, and the wind over our Islands became W. with a very rapid rise of temperature over England. On the 29th gales were experienced in many of our northern districts.

On the 31st a large but shallow depression passed across the north of our Islands to the North Sea and at the same time spread out in a S.E. direction. Rain was therefore experienced in all parts of the country. At the close of the week this disturbance was travelling away but a new system was beginning to approach our northwest coasts from the Atlantic, and the general appearance was very unsettled.

With the exception of the sharp frost noticed above temperature has been for the most part high for the time of year, the daily maxima at our island stations varying between 55° and 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 4th November.* 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.		SHADE TEMP.			WIND.		Weather.	Sea. (0 to 12.)	SHADE TEMP.		Amount of Rainfall.	
				Dirce.	Force. (0 to 12.)		Reading at 3 ³⁰ P. 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 ...	29.80	34	2	0	0	29.83	+0.04	33	33	+3	2	0	P	.	34	25	0.04	
	Hernösand ...	29.70	36	2	0	P	29.68	-0.03	41	41	+5	E	2	P	.	41	36	0.24	
	Stockholm ...	29.60	45	ESE	2	0	29.48	-2.0	45	44	+4	ESE	2	P	.	46	37	0.04	
	Wisby ...	29.56	46	SE	4	0	29.49	-1.4	46	46	+1	SEW	4	0	.	48	34	0.04	
	Bodö ...	29.48	40	ESE	2	0	29.50	+0.9	42	38	+1	ENE	4	0	2	?	36	-	
	Christiansund	29.29	46	NNE	3	C	29.24	+0.1	46	43	-2	SE	2	C	4	50	45	-	
	Skudesnaes ...	29.31	46	W	2	0	29.23	-0.6	45	42	-5	SE	2	0	3	50	41	0.24	
	Christiania Fjord (Færder)	29.39	48	NE	4	P	29.30	-1.8	48	45	+2	SEW	3	0	3	48	45	0.63	
	Skagen (The Scaw)	29.38	46	SW	2	P	29.33	-0.9	45	44	-2	S	3	C	2	48	43	0.20	
	Fanö ...	29.42	43	S	1	C	29.28	-0.3	44	43	-1	SEW	5	C	*	52	43	0.32	
BRITISH ISLANDS.	Sumburgh Head	29.28	38	NNE	1	0	29.17	-1.1	42	41	+2	NE	2	0	3	42	37	0.03	
	Stornoway ...	29.14	40	SE	6	T	29.06	-3.3	38	38	+2	N	2	C	3	43	34	0.20	
	Wick ...	29.24	40	SW	3	0	29.10	-3.2	37	36	-1	W	1	0	1	41	36	0.05	
	Nairn ...	29.22	38	2	0	T	29.09	-3.3	38	35	0	SW	1	0	1	45	32	0.07	
	Aberdeen ...	29.30	40	SEW	2	0	29.12	-3.5	33	32	-4	SW	1	0	3	43	33	0.08	
	Leith ...	29.26	43	SW	1	0	29.14	-3.7	40	40	+3	W	1	0	.	45	36	-	
	Shields ...	29.33	43	SEW	3	0	29.15	-3.5	44	41	+3	W	2	0	2	44	33	0.05	
	Spurn Head ...	29.43	45	SW	4	P	29.22	-3.3	44	43	+2	SW	3	0	3	46	40	0.03	
	York ...	29.43	43	S	3	T	29.20	-3.7	44	43	+5	SEW	1	0	.	47	28	0.10	
	Loughborough	29.45	42	SE	2	0	29.27	-3.7	44	42	+2	SW	2	0	.	50	42	0.06	
GERMANY & HOLLAND.	Ardrossan ...	29.22	50	SW	3	0	29.11	-3.8	43	42	+3	ENE	1	0	2	50	39	0.14	
	Malin Head ...	29.20	49	W	5	C	29.07	-3.6	42	41	+1	S	4	0	3	51	35	0.37	
	Mullaghmore ...	29.20	50	W	5	C	29.06	-4.0	46	44	+5	SW	4	0	6	53	40	0.11	
	Belmullet ...	29.32	49	W	7	0	29.08	-2.7	48	46	+3	W	3	0	.	54	44	0.14	
	Donaghadee ...	29.29	46	W	3	0	29.15	-3.8	38	38	0	W	3	0	1	51	37	0.09	
	Liverpool (Bidston)	29.36	45	S	3	P	29.20	-3.9	45	42	+1	W	4	0	4	50	42	0.10	
	Holyhead ...	29.37	52	W	3	C	29.20	-3.9	45	45	+3	W	4	0	4	53	45	0.19	
	Parsonstown ...	29.41	50	2	0	0	29.14	-3.9	45	44	+3	2	0	0	.	50	41	0.15	
	Valencia ...	29.54	51	W	4	C	29.25	-2.5	50	49	-6	W	6	0	6	58	46	0.25	
	Roche's Point...	29.51	52	W	3	0	29.24	-3.5	49	47	-3	W	5	0	4	58	45	0.25	
FRANCE AND BELGIUM.	Pembroke (St. Ann's Hd.)	29.48	50	W	4	0	29.26	-4.1	52	48	+3	W	6	0	5	55	47	0.23	
	Scilly ...	29.61	53	W	6	0	29.44	-2.9	50	49	-3	W	7	0	5	57	48	0.45	
	Prawle Point ...	29.54	52	W	5	0	29.38	-3.8	50	47	+3	W	6	0	5	55	46	0.31	
	Jersey (St. Aubin's)	29.60	51	S	4	P	29.48	-3.3	52	49	+2	SW	6	0	4	56	49	0.38	
	Hurst Castle ...	29.49	51	SW	7	P	29.36	-3.6	46	45	+1	W	4	0	4	52	44	0.13	
	Dungeness ...	29.56	50	SW	6	0	29.34	-3.0	52	50	+11	W	5	0	4	54	40	0.04	
	London ...	29.52	45	SW	2	0	29.32	-3.5	46	44	+6	W	2	0	.	50	39	0.04	
	Oxford ...	29.43	48	SW	3	0	29.30	-3.9	45	43	+8	SW	2	0	.	49	37	0.14	
	Cambridge ...	29.50	46	W	1	P	29.29	-3.6	45	44	+5	SW	1	0	.	47	38	0.13	
	Yarmouth ...	29.53	43	SW	2	C	29.28	-3.2	44	43	+3	W	2	0	2	45	39	0.07	
PENINSULA.	Cuxhaven ...	29.51	45	SW	1	C	29.39	0.0	42	41	-5	SW	3	C	.	52	41	-	
	Berlin ...	29.65	47	SW	3	0	29.57	+0.6	42	46	-1	SE	3	C	.	52	?	-	
	Wiesbaden ...	29.54	47	SW	3	0	29.54	-1.3	43	43	-5	SE	1	P	.	50	41	0.16	
	Munich ...	29.84	42	SW	3	C	29.71	-0.1	34	33	-10	SW	2	C	.	48	30	-	
	The Helder ...	29.56	47	SW	2	C	29.28	-1.2	49	47	0	W	2	C	3	50	45	0.12	
	Brussels (9 a.m.)	.	.	.	.	.	29.41	-1.7	47	46	+3	SW	4	0	.	49	41	0.08
	Cape Gris Nez	29.57	50	SW	5	0	29.38	-2.4	51	48	+5	W	5	0	5	52	45	0.08	
	Paris ...	29.78	48	SW	3	0	29.58	-1.5	47	46	+3	SW	3	0	.	52	46	0.08	
	Brest ...	29.68	57	W	3	C	29.52	-3.2	54	53	+2	W	6	P	6	66	50	0.08	
	Lorient ...	29.72	56	W	6	0	29.60	-2.9	53	52	+3	W	6	C	6	57	52	0.16	
FRANCE AND BELGIUM.	Rochefort ...	29.93	55	SW	4	P	29.77	-1.1	54	53	-1	W	3	C	.	61	48	0.20	
	Belfort ...	29.70	42	W	1	0	29.80	-0.6	44	42	0	S	2	0	.	52	34	0.20	
	Lyons ...	29.94	44	W	1	C	29.80	-0.6	44	42	0	S	2	0	.	52	41	0.08	
	Nice ...	29.74	50	NW	3	0	29.75	+1.1	46	41	0	E	4	0	1	57	43	-	
	Perpignan ...	29.94	54	NW	2	0	29.84	-0.6	56	55	+2	W	2	0	.	61	50	0.04	
	Biarritz ...	30.01	57	W	5	0	29.52	-0.6	59	58	0	N	5	P	5	63	55	0.20	
	Corunna ...	†	.	.	.	.	30.07	-0.2	59	57	0	SW	4	0	5	63	54	0.16
	Lisbon ...	30.23	62	NW	3	C	30.23	+0.3	60	58	-2	NW	4	0	?	68	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

Tuesday 4th November,

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:

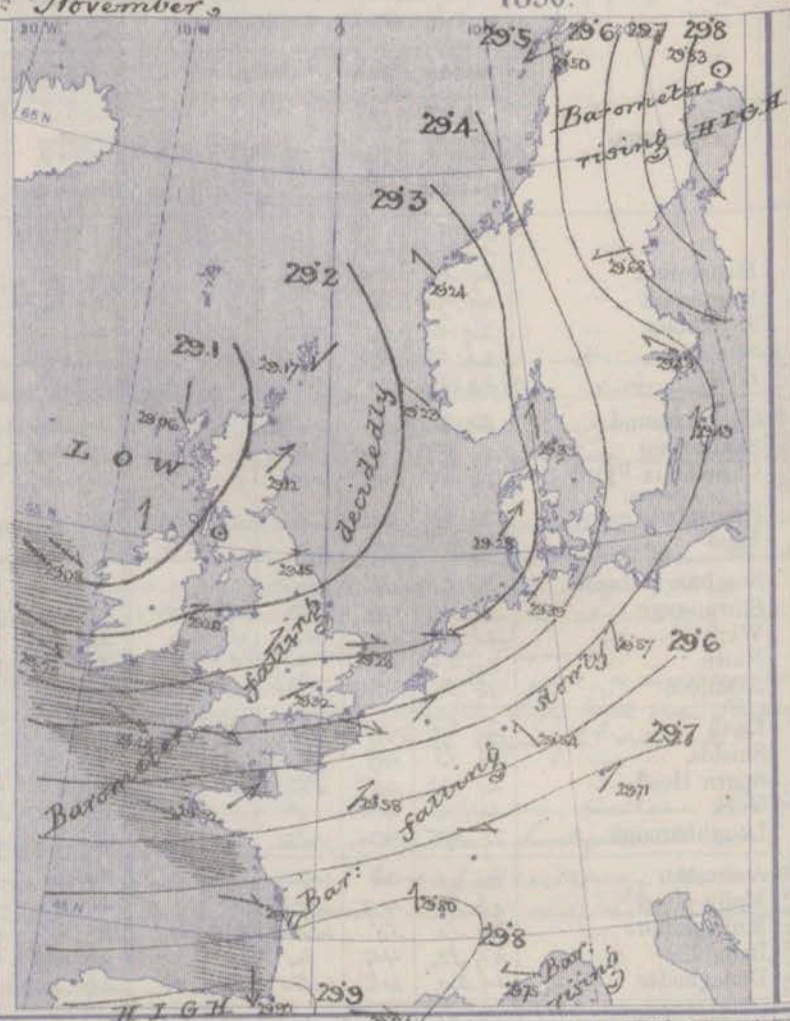
▨ = Rough. ▨ = High.

MEAN HEIGHT OF THE BAROMETER

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

During the 15 Years: 1871—1885.

STATIONS.	MEAN READINGS.
Sumburgh Head	29.687
Stornoway	29.707
Wick	29.726
Nairn	29.743
Aberdeen	29.756
Leith	29.793
Shields	29.815
York	29.844
Loughborough	29.876
Ardrossan	29.795
Donaghadee	29.811
Holyhead	29.835
Liverpool	29.852
Parsonstown	29.848
Valencia	29.864
Roche's Point	29.862
Pembroke	29.898
Seilly	29.923
Jersey	29.893
Hurst Castle	29.893
Dover	29.897
LONDON	29.893
Oxford	29.885
Cambridge	29.863
Yarmouth	29.863



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.

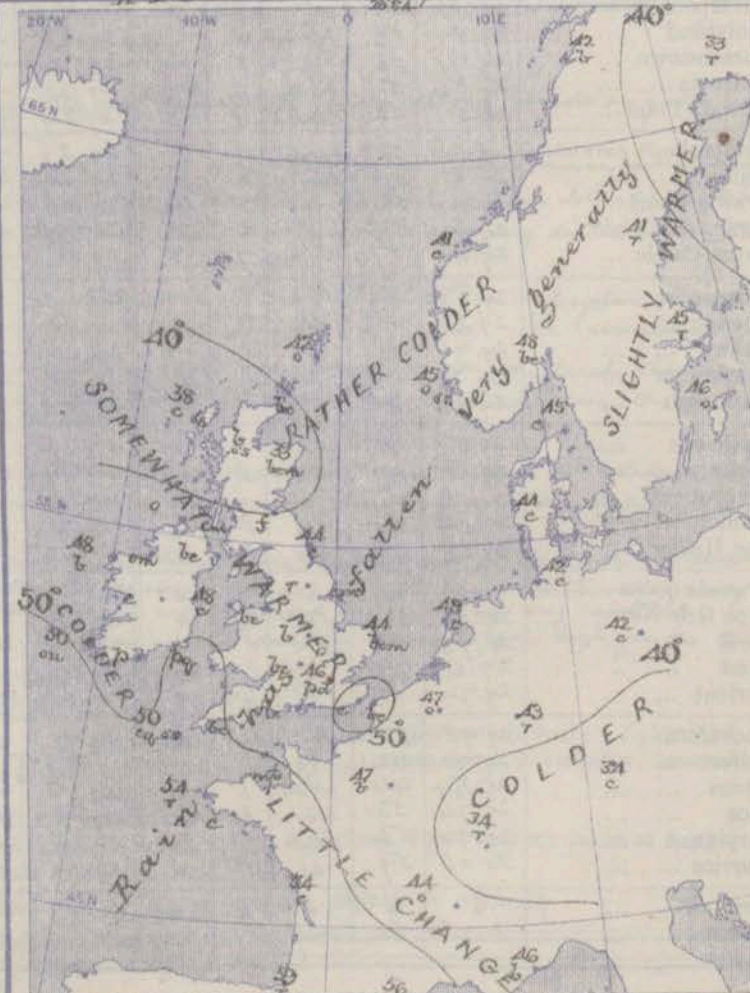
RAINFALL—A dotted line separates the districts in which rain has fallen from those where there has been none. Falls of 0.5 in. or more are quoted in figures.

MEANS OF TEMPERATURE IN SHADE, AND RAINFALL.

(For the month of November.)

STATIONS.	TEMPERATURE.				RAINFALL (Inches.)
	Daily Max.	Daily Min.	at 8 a.m.		
			Dry.	Wet.	
Sumburgh Head.....	45.3	37.4	41.5	39.8	4.24
Stornoway	45.7	36.7	41.0	39.9	4.60
Wick	45.7	35.7	40.9	39.3	2.97
Nairn	44.7	35.5	39.1	37.5	2.32
Aberdeen	46.1	36.3	40.3	38.5	3.16
Leith.....	48.2	36.7	41.2	39.6	2.11
Shields.....	47.1	38.1	41.8	40.2	2.63
York	47.7	36.1	40.3	39.0	2.21
Loughborough	48.0	36.1	40.2	38.9	2.30
Ardrossan	47.7	33.9	42.6	40.8	3.92
Donaghadee.....	48.2	39.2	42.9	41.7	3.13
Holyhead.....	49.7	42.8	45.5	43.8	3.71
Liverpool.....	47.7	39.5	42.1	40.4	2.87
Parsonstown	49.1	36.9	41.7	40.0	2.84
Valencia	52.4	42.7	47.2	45.2	5.50
Roche's Point.....	51.1	41.8	45.9	44.3	4.56
Pembroke.....	50.2	43.7	46.7	44.7	3.96
Seilly	52.5	46.7	50.0	48.0	3.76
Jersey	51.9	44.2	47.5	45.6	4.24
Hurst Castle	50.5	40.3	44.6	43.0	2.98
Dover	49.1	40.7	44.0	42.4	3.60
LONDON	49.6	37.0	42.0	40.5	2.14
Oxford	48.6	37.6	41.0	39.7	2.30
Cambridge.....	48.8	35.7	40.3	39.5	2.02
Yarmouth	47.5	39.1	42.9	41.8	3.15

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, (1) 30.2 in. to 29.8 in. over Spain and the southwest of France, and (2) 29.8 in. to 29.5 in. over the northern parts of Sweden and the Gulf of Bothnia.
Lowest, 29.1 in. and less, in a depression lying over the coast of Scotland and northwest of Ireland, and the adjacent parts of the Atlantic.
Gradients moderate in the west and south, slight elsewhere.
Barometer falling in the southeast, unsteady generally.

TEMPERATURE

Highest, 60° at Lisbon, 59° at Biarritz, 59° at Brest, 50° at Scilly and Valencia.
Lowest, (1) 38° at Copenhagen, 41° at Amsterdam, (2) 34° at Munich and Regensburg, 42° at Berlin.
 In London the temperature is 46° and at Paris 47°.

WIND

Very light and variable at the Dutch stations, SE³ in Norway, SW⁴ on our northeast coast; strong W³ in the Channel, on our southwest coast and on the coast of Brittany; moderate WSW³ over the Irish Sea.

WEATHER

In a changeable condition generally. Fair at the time of observation in many regions, dull in others, and raining in some localities.
 Rain has fallen generally, and lightning has occurred at some of our western stations.

SEA

Rough in the Channel and on our extreme western coast, moderate to slight elsewhere.

PROBABLE CHANGES IN SYSTEM NOW PREVALENT

No great change is indicated.

FORECASTS

For the 24 hours ending at NOON on 5TH Nov^R, 1890.

DISTRICTS.

FORECASTS.

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

Varying light breezes; very changeable, rain at times

Same as N° 5.

W⁴ and SW⁴ breezes, moderate or light; very changeable, rain at times. Wind probably strong in Channel.

DISTRICTS.

FORECASTS.

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

Same as N° 0 and 1.

W⁴ breezes, strong; very changeable, rain at times.

WARNINGS

NONE ISSUED.

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

YESTERDAY'S 2 P.M. REPORTS.

	THER: WIND								THER: WIND						
	BAR:	D.	W.	D.	F.	WEA.	SEA		BAR:	D.	W.	D.	F.	WEA.	SEA
Skudesnaes ...	29.32	47	46	SE	2	7	5	Holyhead ...	29.41	48	47	SW	4	7	4
Sumburgh Head ...	29.33	47	46	SW	2	0	3	Valencia ...	29.55	58	54	W	5	6	5
Stornoway ...	29.26	47	43	SE	4	0	4	Seilly ...	29.56	56	53	WNW	6	C	5
Aberdeen ...	29.40	40	25	S	1	C	2	Jersey ...	29.75	51	49	SW	4	7	3
Shields ...	29.45	44	39	SW	3	C	2	Dungeness ...	29.66	49	44	W	4	C	3
Ardrossan ...	29.34	46	45	E	2	7	1	London ...	29.64	49	45	SW	3	0	3
Malin Head ...	29.21	48	47	SW	6	0	3	Yarmouth ...	29.58	45	42	W	3	6	3
Mullaghmore ...	29.41	53	49	WNW	6	6	5	Rochefort ...	29.92	60	58	W	3	C	?
Belmullet ...	29.36	53	49	WNW	7	6	*								

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

Weather fine in the eastern and southeastern parts of Great Britain, as well as in the west of Norway and south of France. Cloudy or overcast elsewhere, with rain in Ireland, Finland, Italy, and Tunis, snow at Haparanda, and a thunderstorm at Hermannstadt. Rain extending over Great Britain later, but weather improving considerably in Ireland.

Temperature highest, 64° at Malta, 63° at San Tommaso and Rhindini, and 62° at Barcelona, Lisbon, and Constantinople; above 55° at nearly all the Spanish and Mediterranean stations, as well as in the extreme southwest of Ireland. Lowest (1) 30° at Archangel and Haparanda, 31° at Uleaborg, 34° at Kuopio; (2) 36° at Stornoway and Shields, 37° at Aberdeen, Leith and Oxford, and 38° at Wick, Naini and Darghadar. Rainy during day to between 55° and 58° in many parts of Ireland and England, and reaching 60° or more in the south of France.

Wind moderate to strong from the Snd or SWnd in the west of our Islands; light to fresh from the Wnd or NWnd over the eastern and southern parts of Great Britain France and Spain. SWnd over the Netherlands and western Germany, Snd or SEnd over Scandinavia, Denmark, the Baltic, Russia, and Austria. Cyclonic circulation of light breezes reported over Italy, light Snd breezes in Algeria. Subsequently, veering to the Wnd in the west of our Islands, but backing to the SWnd or Snd in the east.

Barometer highest 30.2 in: and upwards in an anticyclone lying to the southwestward of the Iberian Peninsula, 30.0 in: and upwards, over Northern Russia. Lowest 29.3 in: and less, in a V-shaped depression extending from the northward over the eastern parts of the North Sea, 29.4 in: and less, in another disturbance lying off the northwest of our Islands, 29.7 in: and less, in a shallow system lying over Corsica, the north of Italy, and the adjacent part of the Mediterranean. Depression off our northwest coast subsequently moving northeastwards and barometer rising a little in extreme west.

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, 5th November, 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).			Reading at 32° F. and Sea Level.	Difference from 8 a.m. yesterday.	Dry.	Wet.	Difference from 8 a.m. yesterday.	Force. (0 to 12).				Max.	Min.		
SCANDINAVIA.	Haparanda ...	29.91	31	2	0	0	29.94	+ .14	29	28	- .14	E	2	0	*	36	29	0.08	
	Hernösand ...	29.65	41	ESE	2	r	29.74	+ .06	41	41	0	2	0	0	*	45	36	1.02	
	Stockholm ...	29.58	42	SE	2	r	29.63	+ .15	44	43	- .1	SE	2	0	0	*	48	39	0.04
	Wishy ...	29.67	45	E	4	r	29.58	+ .09	46	46	0	ESE	2	4	*	48	41	0.08	
	Bodö ...	29.65	40	E	6	c	29.73	+ .23	40	36	- .2	E	4	6	2	43	37	-	
	Christiansund ...	29.32	46	ESE	2	0	29.50	+ .26	41	38	- .5	ESE	2	6	4	48	39	-	
	Skudesnaes ...	29.31	47	ESE	2	r	29.52	+ .29	44	44	+ .3	N	2	0	3	45	45	-	
	Christiania Fjord (Farder) ...	29.41	46	ESE	5	0	29.55	+ .25	44	43	- .1	NNE	4	0	2	49	43	-	
	Skagen (The Seaw) ...	29.36	45	SW	4	c	29.45	+ .12	44	43	- .1	SE	5	r	4	46	4	0.08	
	Fanö ...	29.26	43	S	4	r	29.34	+ .06	44	44	0	ESE	3	r	*	45	41	0.35	
BRITISH ISLANDS.	Sumburgh Head ...	29.30	40	2	0	c	29.60	+ .43	43	42	+ .1	N	1	6	2	45	38	0.10	
	Stornoway ...	29.34	44	E	6	0	29.64	+ .63	43	42	+ .5	N	6	6	5	45	36	0.82	
	Wick ...	29.30	43	NE	4	0	29.64	+ .54	38	36	+ .1	N	2	6	1	45	33	0.23	
	Nairn ...	29.29	43	N	4	r	29.64	+ .55	42	40	+ .4	NW	3	6	1	45	35	0.12	
	Aberdeen ...	29.25	39	N	1	b	29.51	+ .39	40	39	+ .7	NW	4	6	4	48	39	0.05	
	Leith ...	29.25	44	W	1	c	29.59	+ .45	41	38	+ .1	N	1	6	*	49	38	0.01	
	Shields ...	29.22	45	2	0	bm	29.49	+ .34	43	40	- .1	NW	3	6	2	50	39	-	
	Spurn Head ...	29.18	45	SW	1	6	29.47	+ .25	43	42	- .1	NW	5	6	4	49	40	-	
	York ...	29.18	42	W	1	b	29.53	+ .33	43	40	- .1	NW	1	6	*	50	38	0.01	
	Loughborough ...	29.21	47	ESE	1	0	29.56	+ .29	41	40	- .3	NW	1	6	*	53	38	0.01	
GERMANY & HOLLAND.	Ardrossan ...	29.25	44	ESE	1	b	29.60	+ .49	47	44	+ .4	NW	4	6	3	48	40	-	
	Malin Head ...	29.28	48	NW	3	c	29.73	+ .66	45	43	+ .3	NW	6	6	4	49	41	0.15	
	Mullaghmore ...	29.33	48	NNE	5	cp	29.86	+ .80	45	42	- .1	N	6	6	4	50	43	0.21	
	Belmullet ...	29.40	48	N	4	cp	29.95	+ .87	44	41	- .4	N	5	6	*	51	43	0.12	
	Donaghadee ...	29.25	48	NE	3	c	29.69	+ .54	48	45	+ .10	NNE	6	6	4	51	39	0.01	
	Liverpool (Bilston) ...	29.20	46	SE	1	0	29.61	+ .41	45	42	0	NW	4	6	4	50	42	0.03	
	Holyhead ...	29.19	48	NE	2	c	29.66	+ .46	48	45	0	N	6	6	5	51	47	0.15	
	Parsonstown ...	29.32	46	NE	2	c	29.88	+ .74	40	38	- .5	NW	1	6	*	52	39	0.04	
	Valencia ...	29.45	50	NW	5	cp	30.01	+ .76	46	44	- .4	NW	5	6	4	53	45	0.16	
	Roche's Point ...	29.35	50	NW	5	b	29.90	+ .66	46	42	- .4	NW	5	6	4	51	43	0.10	
FRANCE AND BELGIUM.	Pembroke (St. Ann's Hd.) ...	29.20	51	NW	6	c	29.70	+ .44	45	43	- .7	NW	7	6	6	54	44	0.48	
	Scilly ...	29.34	53	NW	8	cp	29.75	+ .31	50	48	0	N	7	6	7	55	46	0.26	
	Prawle Point ...	29.26	48	NW	5	b	29.64	+ .26	46	44	- .4	NW	3	6	2	53	42	0.28	
	Jersey (St. Aubin's) ...	29.31	52	NW	4	cp	29.56	+ .08	50	49	- .2	NW	5	6	5	56	48	0.53	
	Hurst Castle ...	29.22	50	NW	4	cp	29.56	+ .20	43	43	- .3	N	4	6	3	56	42	0.09	
	Dungeness ...	29.23	52	W	4	b	29.44	+ .10	42	42	- .10	N	4	6	2	55	39	0.15	
	London ...	29.23	46	W	1	b	29.51	+ .19	42	40	- .4	NW	2	6	*	52	40	0.12	
	Oxford ...	29.22	46	W	1	r	29.57	+ .27	41	40	- .4	NW	2	6	*	53	41	0.08	
	Cambridge ...	29.22	48	W	1	b	29.54	+ .25	38	35	- .7	NW	1	6	*	54	35	0.01	
	Yarmouth ...	29.22	46	W	1	b	29.43	+ .15	42	41	- .2	NW	2	6	2	48	38	0.01	
PENINSULA.	Cuxhaven ...	29.31	45	S	1	r	29.34	- .05	46	45	+ .4	NW	3	6	*	48	4	0.36	
	Berlin ...	29.45	46	SSE	1	0	29.52	- .05	43	41	+ .1	S	3	6	*	48	39	0.08	
	Wiesbaden ...	*	*	*	*	*	29.48	- .06	45	44	+ .2	W	2	0	*	52	41	0.20	
	Munich ...	29.58	40	SE	2	c	29.60	- .11	40	39	+ .6	SE	4	0	*	45	34	0.04	
	The Helder ...	29.25	45	SSW	1	c	29.39	+ .14	39	38	- .10	S	1	6	1	50	39	0.35	
	Brussels (9 a.m.) ...	*	*	*	*	*	29.38	- .03	44	44	- .3	SE	1	6	*	54	43	0.32	
	Cape Gris Nez ...	29.50	51	NW	5	0	29.37	- .01	50	48	- .1	N	5	6	5	54	43	0.20	
	Paris ...	29.45	47	S	3	b	29.43	- .15	46	44	- .9	SW	2	0	*	54	44	0.12	
	Brest ...	29.43	51	SSE	7	0	29.68	+ .16	48	47	- .6	SW	6	6	7	57	45	0.59	
	Lorient ...	29.52	52	NW	7	0	29.63	+ .03	49	47	- .6	NW	6	6	7	55	48	0.39	
FRANCE AND BELGIUM.	Rochefort ...	? 29.67	55	W	6	0	? 29.60	- .17	54	50	0	NW	6	0	*	59	45	0.43	
	Belfort ...	? 29.48	45	SSE	1	0	? 29.55	- .17	35	32	+ .1	W	1	6	*	51	32	0.35	
	Lyons ...	29.67	51	W	3	0	29.64	- .16	43	40	- .1	SSW	2	6	*	55	42	0.08	
	Nice ...	29.63	50	E	3	b	29.55	- .20	48	45	+ .2	E	2	6	1	59	46	-	
	Perpignan ...	29.78	61	NW	4	0	29.74	- .10	53	46	- .3	NW	4	6	*	70	51	-	
	Biarritz ...	29.86	59	W	8	r	29.83	- .09	45	52	- .4	NW	9	6	9	63	46	0.35	
PENINSULA.	Corunna ...	*	*	*	*	*	30.21	- .02	35	52	- .5	N	5	0	5	66	54	-	
	Lisbon ...	30.17	59	NW	4	b	30.21	- .02	35	52	- .5	N	5	0	5	66	54	-	

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

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

WEATHER CHARTS

for 8 a.m. on

Wednesday, 5th November,

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:

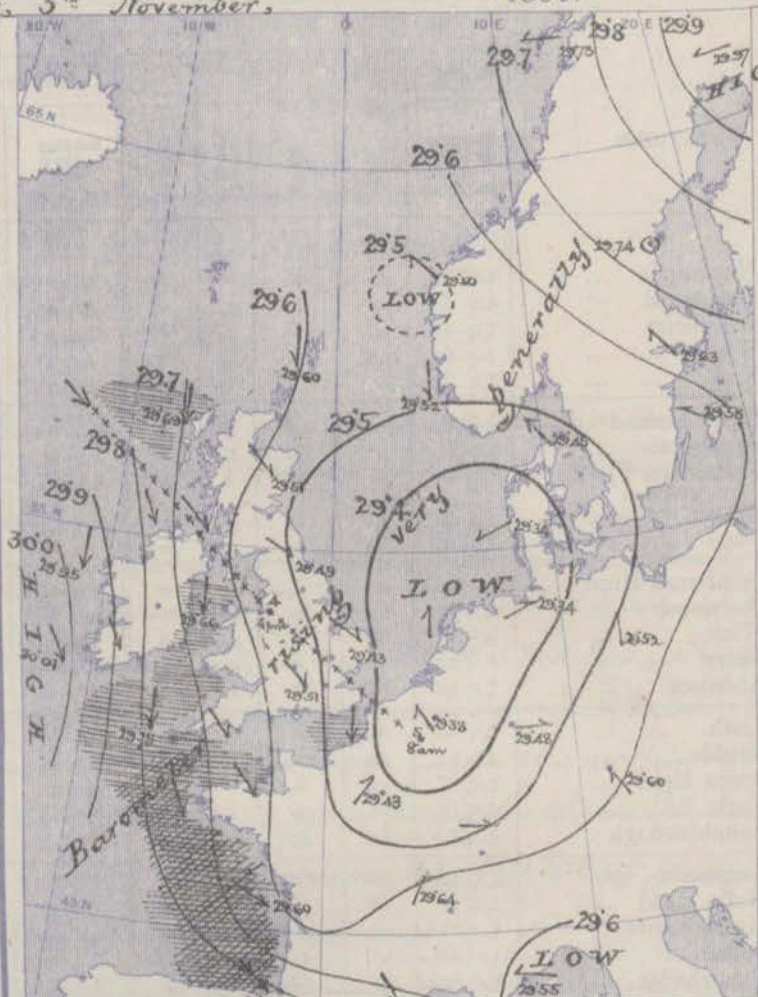
▨ = Rough. ▨ = High.

MEAN HEIGHT OF THE BAROMETER

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

During the 15 Years: 1871—1885.

STATIONS.	MEAN READINGS.
Sumburgh Head	29.687
Stornoway	29.707
Wick	29.726
Nairn	29.743
Aberdeen	29.756
Leith	29.793
Shields	29.815
York	29.844
Loughborough	29.876
Ardrossan	29.795
Donaghadee	29.811
Holyhead	29.835
Liverpool	29.852
Parsonstown	29.848
Valencia	29.804
Roche's Point	29.804
Pembroke	29.802
Scilly	29.898
Jersey	29.923
Hurst Castle	29.898
Dover	29.893
LONDON	29.897
Oxford	29.898
Cambridge	29.885
Yarmouth	29.863



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.

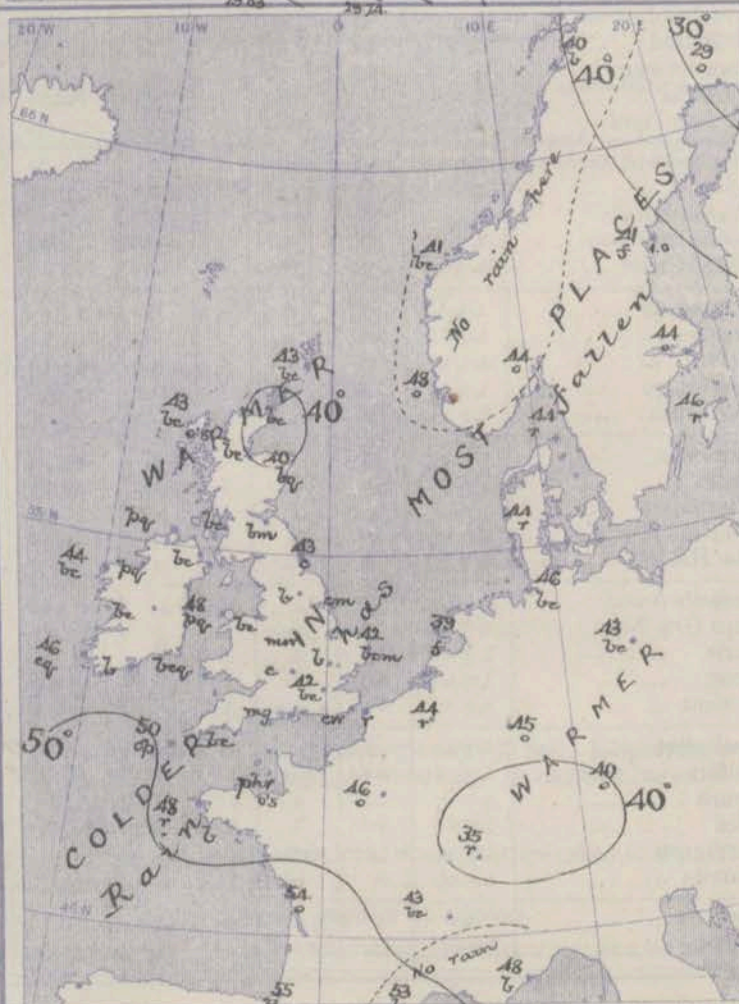
RAINFALL—A dotted line separates the districts in which rain has fallen from those where there has been none. Falls of 0.5 in. or more are quoted in figures.

MEANS OF TEMPERATURE IN SHADE. AND RAINFALL.

(For the month of November.)

STATIONS.	TEMPERATURE.				RAINFALL (inches.)
	Daily Max.	Daily Min.	at 8 a.m. Dry.	Wet.	
Sumburgh Head	45.3	37.4	41.5	39.8	4.24
Stornoway	45.7	36.7	41.0	39.9	4.60
Wick	45.7	35.7	40.9	39.3	2.97
Nairn	44.7	35.5	39.1	37.5	2.32
Aberdeen	46.1	36.3	40.3	38.5	3.10
Leith	48.2	36.7	41.2	39.6	2.11
Shields	47.1	38.1	41.8	40.2	2.63
York	47.7	36.1	40.3	39.0	2.21
Loughborough	48.0	36.4	40.2	38.9	2.30
Ardrossan	47.7	38.0	42.6	40.8	3.02
Donaghadee	48.2	39.2	42.9	41.7	3.13
Holyhead	49.7	42.8	45.5	43.8	3.71
Liverpool	47.7	39.5	42.1	40.4	2.87
Parsonstown	49.1	38.9	41.7	40.0	2.84
Valencia	52.4	42.7	47.2	45.2	5.50
Roche's Point	51.1	41.8	45.0	44.3	4.56
Pembroke	50.2	43.7	46.7	44.7	3.96
Scilly	52.5	46.7	50.0	48.0	3.76
Jersey	51.9	44.2	47.5	45.6	4.21
Hurst Castle	50.5	40.3	44.6	43.6	2.98
Dover	45.1	40.7	44.0	42.4	3.56
LONDON	49.6	37.9	42.0	40.3	2.14
Oxford	48.6	37.6	41.0	39.7	2.80
Cambridge	48.8	35.7	40.3	39.5	2.02
Yarmouth	47.5	39.1	42.0	41.8	3.15

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. upwards in Portugal; 29.9 in. and upwards in the north of Sweden.
Lowest, 29.4 in. and less, in a depression lying over Denmark, the Netherlands, and the southern part of the North Sea.
Gradient rather steep in the west of our Islands, but slight elsewhere.
Barometer rising at all but the French stations; quickly in the west of our Islands.

TEMPERATURE

Highest, 55° at Biarritz and Lisbon, 54° at Rochefort, 53° at Brest, and 50° at Jersey.
Lowest, 29° at Haparanda, 35° at Belfast, 38° at Kiel and Cambridge, and 40° at Stockholm, Rostock, and Munich.
The highest maxima registered over our Islands yesterday were 56° at Seilly, Jersey, and Trust Castle, and 55° at Dungeness.

WIND

Strong from the North or N.W. on the west coast of our Islands and France, with a gale at Biarritz, light or moderate from the same quarters in the eastern part of Great Britain.
Light from the S.W. (S.E. to S.W.) over Germany, the Netherlands, and the east of France.
Moderate from the East over Scandinavia and Denmark.

WEATHER

Fair over the greater part of our Islands, but showery at some of our northern and western stations.
Dull and rainy at many of the Continental stations, with a thunderstorm at Biarritz, but fine in the west of Norway and south of France.
Rain fell yesterday in nearly all part of Western Europe, the largest amount being 1.0 in. at Helsingfors, 0.8 in. at Stockholm, and 0.6 in. at Åbo.

SEA

High at the mouth of the Channel and in the Bay of Biscay ("trimandoo" at Biarritz), as well as Cape Fin Key, rough in the English and Bristol Channels, and rather rough at Stromsøey.

PROBABLE CHANGES IN SYSTEM NOW PREVALENT

An anticyclone is apparently spreading over our Islands from the westward. The strong Nth winds in the west will probably subside shortly and fair cold weather is likely to prevail over our Islands for a time.

FORECASTS

For the 24 hours ending at NOON on 6th Nov^r 1890.

DISTRICTS.

FORECASTS.

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

NWth to Nth winds, fresh or strong;
fair generally, but local showers.

Nth winds, fresh; fair generally.

DISTRICTS.

FORECASTS.

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

Same as No 0 to 3.

Nth winds, strong to moderate; 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								THER: WIND						
	BAR:	D.	W.	D.	F.	WEA.	SEA		BAR:	D.	W.	D.	F.	WEA.	SEA
Skudesnaes ...	29.25	48	43	ESE	4	O	3	Holyhead ...	29.12	49	47	W	3	cp	3
Sumburgh Head ...	29.23	42	41	NNE	2	C	3	Valencia ...	29.35	53	49	W	6	cp	5
Stornoway ...	29.21	45	44	NE	6	T	5	Scilly ...	29.32	53	51	W	6	cp	6
Aberdeen ...	29.17	45	42	W	1	b	2	Jersey ...	29.39	54	50	W	7	C	5
Shields ...	29.14	50	45	NW	2	bc	2	Dungeness ...	29.30	54	49	W	5	bc	4
Ardrossan ...	29.16	48	46	ESE	1	C	1	London ...	29.25	54	50	W	2	bc	2
Malin Head ...	29.16	45	45	N	2	O	3	Yarmouth ...	29.22	48	46	W	2	bc	2
Mullaghmore ...	29.17	45	47	NW	1	cp	7	Rochefort ...	29.68	56	54	W	6	O	4
Belmullet ...	29.22	51	48	NW	5	b	*								

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

Weather changeable and showery in most parts of Northwestern Europe. Dull in nearly in all other regions, with rain over Sweden and Central Russia, but fine over Northern Italy and the south of France. Rain falling during day over nearly the whole of western and northern Europe, the largest amounts being 1.0 in. at Nemours, 0.8 in. at Stornoway, 0.6 in. at Forest and 0.5 in. at Lamberke.

Temperature highest 64° at Nemours, 63° at Brindisi and Algiers, 62° at Oran, and 61° at La Felle; above 55° at most of the Spanish and Mediterranean stations, and above 50° over the Channel and Bay of Biscay. Lowest (1) 22° at Archangel, 33° at Stapananda, and 34° at Uleaborg and Kuopio; (2) 33° at Aberdeen, 37° at Wick, and 36° at Stornoway and Naam; (3) 34° at Belfast and Munich, and 38° at Prague. Daily maxima below 50° over the northern and eastern parts of the United Kingdom, but thermometer exceeding 55° at some of our extreme southern stations and exceeding 60° in the south of France.

Wind moderate to strong from the Wnd in the west and south of our Islands and the west of France; light from the S^W in the eastern parts of Great Britain and also over the Netherlands and east of France. Light from S. over Denmark, Germany, and the south of Russia. E^{ly} over the northern part of Scandinavia and Russia. Moderate to strong from the Wnd or NWnd at most of the Spanish and Mediterranean stations. Subsequently shifting to the northward in the west and north of our Islands and increasing to a fresh gale at the mouth of the Channel.

Barometer highest 30.2 in. and upwards in an anticyclone lying to the southward of the Iberian Peninsula, 30.0 in. and upwards over Russia. Lowest, 29.1 in. and less, in a depression lying over the northwestern parts of the United Kingdom, 29.7 in. and less, in a smaller system lying over Bosnia and Servia. Depression in northwest subsequently travelling southeastwards across our Islands, and barometer rising quickly on our extreme east and northwest coasts.

EXPLANATION OF COLUMNS GIVEN ON PAGE 1.

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

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

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

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

DAILY WEATHER REPORT.

for *Thursday, 6th November, 1890.*
Issued by the Meteorological Office, 63, Victoria Street, London. R. H. SCOTT, Secretary.

Issued by the Meteorological Office, 65, Victoria Street, London. H. 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.		SHADE TEMP.			WIND.		Weather.	Sea. (0 to 2.)	SHADE TEMP.		
				Dirce.	Force. (0 to 12.)		Reading at 3 ³⁰ P. and Sea Level.	Difference from 8 a.m. yesterday.	Dry.	Wet.	Difference from 8 a.m. yesterday.	Dirce.	Force. (0 to 12.)			Max.	Min.	Amount of Rainfall.
SCANDINAVIA.	Haparanda ...	29.96	29	E	2	S	29.92	+ .05	31	31	+ 2	Z	0	f	*	32	25	0.08
	Hernösand ...	29.94	40	NE	5	T	29.86	+ .12	40	39	- 1	Z	0	f	*	46	39	0.04
	Stockholm ...	29.78	45	SE	2	O	29.80	+ .17	43	42	- 1	Z	0	O	*	48	39	-
	Wisby ...	29.72	45	SE	4	bc	29.75	+ .17	46	45	0	E	2	f	*	48	41	0.12
	Bodö ...	29.76	40	E	4	C	29.73	- .03	40	35	0	ESE	2	C	1	41	36	-
	Christiansund	29.60	42	ESE	2	b	29.65	+ .15	41	39	0	ESE	1	C	4	45	39	-
	Skudesnaes ...	29.67	41	Z	0	b	29.72	+ .20	41	39	- 7	ESE	2	b	2	?	39	-
	Christiania Fjord (Færdier)	29.64	44	NNE	5	T	29.71	+ .16	45	44	+ 1	NNE	2	0	2	43	43	0.28
	Skagen (The Seaw)	29.54	46	ESE	2	T	29.66	+ .21	46	45	+ 2	S	1	C	1	46	43	0.20
	Fanö ...	29.60	44	Z	0	O	29.67	+ .33	43	43	- 1	NW	1	C	*	45	39	0.08
BRITISH ISLANDS.	Sumburgh Head	29.71	41	N	2	O	29.65	- .05	46	45	+ 3	S	2	bc	3	46	36	0.01
	Stornoway ...	29.76	42	E	3	O	29.87	- .31	46	45	+ 3	S	7	U	6	47	38	0.06
	Wick ...	29.74	44	NE	1	O	29.53	- .11	43	43	+ 7	S	5	bc	2	47	34	0.03
	Nairn ...	29.74	44	Z	0	C	29.53	- .11	42	40	0	S	1	O	1	50	32	0.03
	Aberdeen ...	29.73	43	WNW	1	bc p	29.64	+ .13	41	40	+ 1	S	2	cm	4	46	37	0.26
	Leith ...	29.82	45	NW	1	C	29.66	+ .07	43	41	+ 2	S	1	bc	*	51	37	-
	Shields ...	29.67	44	NW	2	b	29.72	+ .23	39	38	- 4	SW	2	bc m	3	47	37	0.06
	Spurn Head ...	29.59	45	WNW	5	cp	29.74	+ .27	43	42	0	NW	1	bm	3	47	41	0.04
	York ...	29.65	46	WNW	1	C	29.77	+ .24	39	38	- 4	WNW	1	bc	*	49	35	0.01
	Loughborough	29.69	46	WNW	3	O	29.80	+ .24	35	34	- 6	Z	0	bc m	*	51	34	-
GERMANY & HOLLAND.	Ardrossan ...	29.76	48	ESE	1	b	29.61	+ .01	47	45	0	S	4	O	3	52	37	-
	Malin Head ...	29.80	45	WNW	4	bp	29.37	- .36	44	43	- 1	S	6	O	3	47	41	0.02
	Mullaghmore ...	29.88	45	WNW	4	C	29.43	- .43	48	47	+ 3	SSE	7	og m	4	49	42	-
	Belmullet ...	29.89	44	WNW	4	O	29.36	- .53	51	51	+ 7	SW	5	og m	4	51	43	0.08
	Donaghadee ...	29.79	47	N	4	O	29.62	- .07	44	42	- 4	SW	3	O	1	50	40	0.02
	Liverpool (Bidston)	29.74	46	NW	2	b	29.76	+ .15	41	40	- 4	S	1	om	2	49	41	-
	Holyhead ...	29.77	49	WNW	6	rqh	29.71	+ .05	47	44	- 1	SW	3	og	3	50	44	0.11
	Parsonstown ...	29.93	41	Z	0	bc	29.56	- .32	47	46	+ 7	SE	2	O	*	48	37	-
	Valencia ...	29.99	48	NW	1	om	29.53	- .48	54	54	+ 8	SSE	3	O	4	54	45	0.25
	Roche's Point...	29.94	47	SW	3	cm	29.61	- .29	52	52	+ 7	SW	5	T	4	52	45	0.15
FRANCE AND BELGIUM.	Pembroke (St. Ann's Hd.)	29.85	48	NW	5	C	29.76	+ .09	49	47	+ 4	S	4	og p	4	47	45	0.02
	Scilly ...	29.91	50	WNW	6	C	29.79	+ .04	50	50	0	S	4	T	5	51	46	0.02
	Prawle Point ...	29.85	46	WNW	3	bc	29.86	+ .22	45	42	- 1	WNW	3	C	2	54	39	-
	Jersey (St. Aubin's)	29.77	49	NW	4	cm	29.90	+ .14	49	45	- 1	NW	3	og m	3	54	46	0.23
	Hurst Castle ...	29.75	45	WNW	3	b	29.65	+ .29	40	38	- 3	WNW	2	m	2	50	38	-
	Dungeness ...	29.62	42	N	3	m	29.79	+ .35	39	38	- 3	WNW	2	m	0	50	35	-
	London ...	29.71	44	SEW	1	bm	29.81	+ .30	37	36	- 5	SEW	1	bf	*	53	36	-
	Oxford ...	29.75	43	NW	3	C	29.84	+ .27	36	35	- 5	WNW	1	b	*	49	36	-
	Cambridge ...	29.62	45	N	1	bc	29.80	+ .26	42	41	+ 4	W	1	C	*	51	37	-
	Yarmouth ...	29.54	45	NW	4	C	29.73	+ .30	44	43	+ 2	WNW	2	bc m	2	48	41	0.11
PENINSULA.	Cuxhaven ...	29.51	44	SW	2	bc	29.71	+ .37	41	40	- 5	W	1	f	*	46	40	0.16
	Berlin ...	29.63	44	Z	0	C	29.72	+ .20	43	42	0	SE	2	C	*	50	41	-
	Wiesbaden ...	*	*	*	*	*	29.74	+ .26	45	44	0	SE	1	O	*	50	43	0.67
	Munich ...	29.63	36	?	1	T	29.78	+ .18	38	37	- 2	SW	3	O	*	46	34	0.04
	The Helder ...	29.55	43	NW	1	b	29.71	+ .32	40	39	+ 1	SEW	1	bc	1	50	37	-
	Brussels (9 a.m.)	*	*	*	*	*	29.78	+ .40	41	41	- 3	WNW	2	O	*	47	41	0.16
	Cape Gris Nez	?	48	NNE	5	C	29.76	+ .39	46	45	- 4	WNW	4	bc	3	50	45	0.04
	Paris ...	29.67	46	WNW	3	C	29.86	+ .43	39	37	- 9	S	1	O	*	52	35	0.08
	Brest ...	29.89	50	N	5	C	29.90	+ .32	51	50	+ 3	WNW	3	O	4	54	48	-
	Lorient ...	29.90	49	WNW	5	b	29.96	+ .33	50	45	+ 1	NW	2	C	4	54	46	-
PENINSULA.	Rocheport ...	29.82	52	NW	6	O	29.99	+ .39	50	45	- 4	SW	4	O	*	57	43	-
	Belfort ...	?	46	W	1	T	?	?	36	32	+ 1	W	1	O	*	48	34	0.24
	Lyons ...	29.67	43	W	2	C	29.91	+ .27	42	40	- 1	WNW	2	C	*	51	42	0.12
	Nice ...	29.53	52	NW	6	b	29.66	+ .11	45	42	- 3	NE	4	bc	3	61	43	-
	Perpignan ...	29.79	53	NW	4	b	29.95	+ .21	48	44	- 5	NW	3	b	*	61	41	0.08
	Biarritz ...	29.76	56	NW	8	O	30.04	+ .21	54	50	- 1	N	4	O	7	61	50	0.20
	Corunna ...	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Lisbon ...	30.23	56	N	5	b	30.27	+ .06	53	50	- 2	WNW	3	C	6	63	52	-

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, 6th November, 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

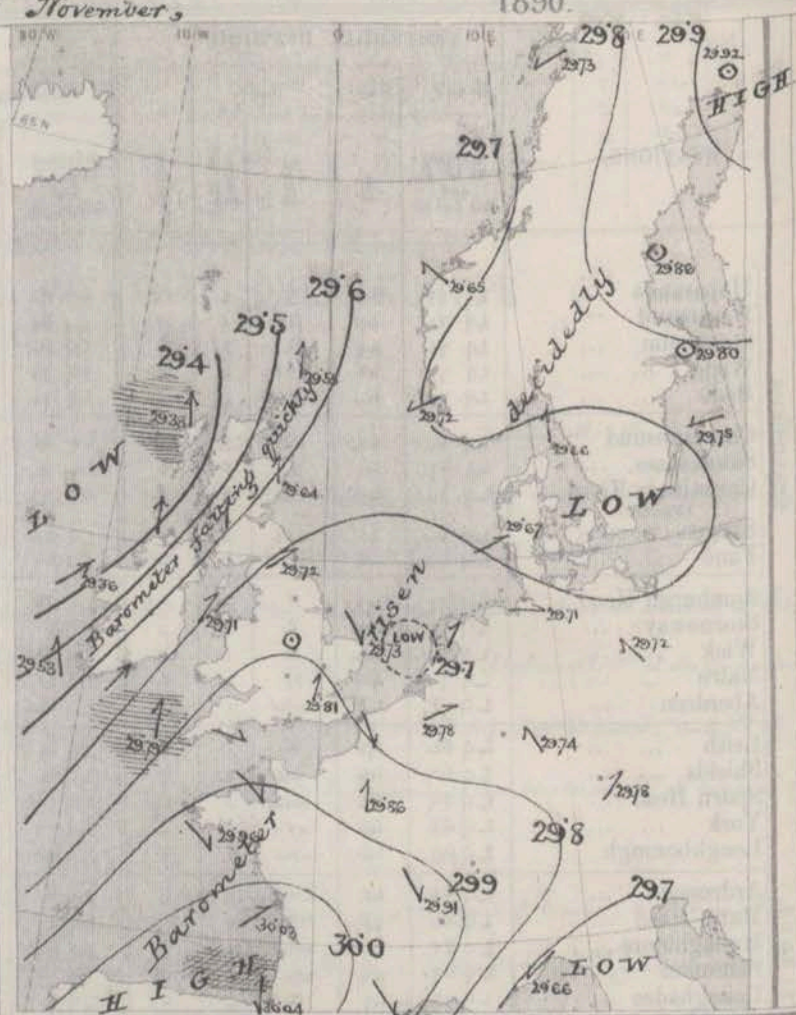
at 8.0 a.m. for the month of November.

During the 15 Years: 1871—1885.

STATIONS.

MEAN READINGS.

STATIONS.	MEAN READINGS.
Sumburgh Head	29.687
Stornoway	29.707
Wick	29.726
Nairn	29.743
Aberdeen	29.759
Leith	29.794
Shields	29.813
York	29.844
Loughborough	29.870
Ardrossan	29.795
Donaghadee	29.811
Holyhead	29.855
Liverpool	29.852
Parsonstown	29.848
Valencia	29.864
Rocha's Point	29.864
Pembroke	29.862
Scilly	29.896
Jersey	29.923
Hurst Castle	29.894
Dover	29.893
LONDON	29.897
Oxford	29.893
Cambridge	29.883
Yarmouth	29.863



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.

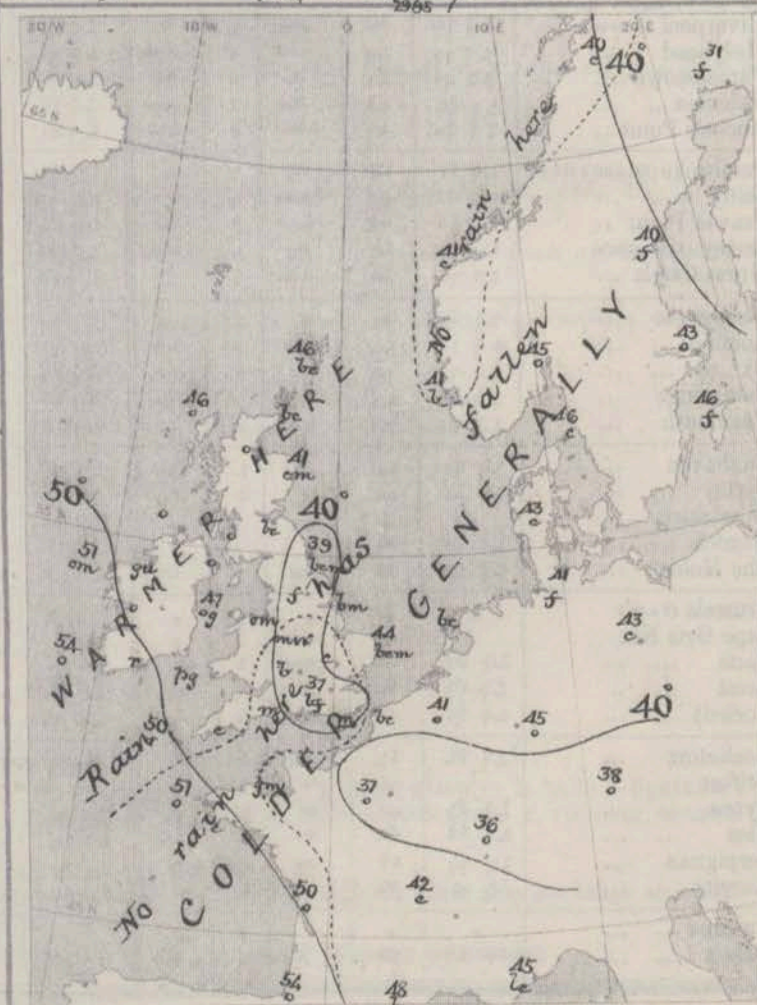
RAINFALL—A dotted line separates the districts in which rain has fallen from those where there has been none. Falls of 0.5 in. or more are quoted in figures.

MEANS OF TEMPERATURE IN SHADE, AND RAINFALL.

(For the month of November.)

STATIONS.	TEMPERATURE.				RAINFALL. (Inches.)
	Daily Max.	Daily Min.	Daily Avg.	Wind.	
Sumburgh Head	45.3	37.4	41.5	39.8	4.24
Stornoway	45.7	30.7	41.0	39.9	4.09
Wick	45.7	33.7	40.9	39.3	2.97
Nairn	44.7	35.5	39.1	37.5	2.32
Aberdeen	46.1	30.3	40.3	38.5	3.16
Leith	48.2	30.7	41.2	39.6	2.11
Shields	47.1	38.1	41.8	40.2	2.03
York	47.7	36.1	40.3	39.0	2.21
Loughborough	48.0	36.1	40.2	38.9	2.30
Ardrossan	47.7	34.9	42.6	40.8	4.92
Donaghadee	48.2	39.2	42.9	41.7	3.15
Holyhead	49.7	42.8	45.5	43.8	3.71
Liverpool	47.7	39.5	42.1	40.4	2.87
Parsonstown	49.1	36.9	41.7	39.0	2.84
Valencia	52.4	42.7	47.2	45.2	5.59
Rocha's Point	51.1	41.8	45.9	44.3	4.56
Pembroke	50.2	43.7	46.7	44.7	3.96
Scilly	52.5	46.7	49.0	48.0	3.78
Jersey	51.0	44.2	47.5	45.0	4.21
Hurst Castle	50.5	40.3	44.6	43.0	2.08
Dover	49.1	40.7	44.0	42.4	3.56
LONDON	49.6	47.9	42.0	40.5	2.14
Oxford	48.6	45.6	41.0	39.7	2.30
Cambridge	48.8	45.7	40.3	39.5	2.03
Yarmouth	47.3	39.1	42.9	41.8	3.15

NOTE.—The Temperature means are for the 15 years 1871-85, the Rainfall means are mainly those for the 20 years 1869-89.



GENERAL SITUATION AT 8 A.M.

PRESSURE

Highest, (1) 30.2 in. to 29.9 in. over the Spanish Peninsula and western parts of France; (2) 29.7 in. and more over Scandinavia.
 Lowest, 29.4 in. and less, off our extreme northeastern coasts.
 Gradient somewhat steep in the northwest, slight in the east and south.
 Barometer falling fast in the west and north.

TEMPERATURE

Highest, 54° at Birmingham and Valencia, 50° at Scilly.
 Lowest, 31° at Haparanda, 35° at Southampton, 37° in London and at Paris, and 38° at Munich.
 Sharp frost occurred on the ground in London early this morning.

WIND

S over all the western and northern parts of the kingdom, and has become very strong in the extreme west and northwest.
 At our eastern and southeastern stations it is light and variable, and over the greater part of the Channel is still NW.

WEATHER

Very dull and unsettled at our western and northwestern stations, with rain and a threatening appearance in places.
 In the east and south it is fair, but cirrus clouds are observed over London coming fast from NW.

SEA

Rough at Stromway and Scilly, moderate at our western stations generally, smooth in the east and south.

PROBABLE CHANGES IN SYSTEM NOW PREVALENT

The new disturbance seems likely to cause S² gales on our western and northern coasts (which have been warned) and wet unsettled weather generally.

FORECASTS

For the 24 hours ending at NOON on 7th Nov^r 1890.

DISTRICTS.

FORECASTS.

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

S² and SW² winds, strong to a gale; rainy, squally, unsettled.

Same as No 5.

S² winds increasing in force; fair to rainy, with rising temperature.

DISTRICTS.

FORECASTS.

- 1 SCOTLAND WEST
- 2 ENGLAND N.W.
- 3 ENGLAND S.W.
- 4 IRELAND NORTH
- 5 IRELAND SOUTH

S² gales and strong winds; squally, rainy, unsettled.

WARNINGS

The SOUTH CONE has been hoisted this morning in districts 0.1. and 6 to 10.

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

YESTERDAY'S 2 P.M. REPORTS.

THER: WIND								THER: WIND							
	BAR:	D.	W.	D.	F.	WEA.	SEA		BAR:	D.	W.	D.	F.	WEA.	SEA
Skudesnaes ...	29.61	47	43	N.E.	1	0	3	Holyhead ...	29.72	49	46	N.W.	6	cq	3
Sumburgh Head	29.68	43	42	N	2	bc	3	Valencia ...	30.02	50	46	N.W.	4	0	6
Stornoway ...	29.70	46	46	N	3	c	1	Scilly ...	29.84	50	48	N.W.	7	c	5
Aberdeen ...	29.67	45	44	N.W.	4	cq p	4	Jersey ...	29.72	47	45	N.W.	5	c	3
Shields ...	29.58	46	45	N.W.	3	r	3	Dungeness ...	29.50	50	46	N	4	bc	3
Ardrossan ...	29.69	49	45	N.W.	1	b	1	London ...	29.61	50	47	N.W.	2	b	3
Malin Head ...	29.79	47	46	N.W.	4	bc	4	Yarmouth ...	29.51	47	45	N.W.	4	c	3
Mullaghmore ...	29.89	48	46	N.W.	5	bc	4	Rochefort ...	29.74	55	50	N.W.	6	bc	2
Belmullet ...	29.95	47	43	N.W.	3	0	*								

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

Weather fine over the greater part of the United Kingdom, but showers, at some of our western and northern stations; fine also in the west of Norway, and the southern part of France, Spain and Italy. Dull in all other localities, with a good deal of fog over Russia and Austria, rain in Denmark and the south of Sweden and a thunderstorm at Biarritz. Showers falling during day in many parts of Western Europe; lightning seen at Mullaghmore at night.

Temperature highest 70° at Brindisi, 64° at Palma, Palermo, Oran, Algiers and La Caba, and 62° at Malta; above 55° at most of the Mediterranean stations. Lowest (1) 28° at Archangel, 29° at Haparanda and Uleaborg, and 32° at Kuopio; (2) 35° at Relfort, and 36° at Breslau, Cracow and Vienna; below 40° in some of the northern and eastern parts of Great Britain. Daily maxima below 50° in many parts of our Islands, but thermometer exceeding 60° in the south of France. Ground frost occurring over Great Britain at night.

Wind strong from N. or N.W. on the west coast of our Islands and France and also in Spain; light or moderate from the same quarters in the eastern part of Great Britain. Light from the S.W. over central France and Western Germany; light or moderate from the S.E. over Germany and the central and southern parts of Russia; E. over Scandinavia, Denmark, and Northern Russia. Wind moderating later on our western coast, and backing to the West or S.W. in the west of Ireland.

Barometer highest 30.2 ins. in an anticyclone lying to the south-westward of the Iberian Peninsula; 30.1 ins. and upwards in another system lying over Russia. Lowest, 29.4 ins. and less, in a depression lying over Denmark, the Netherlands, and the southern parts of the North Sea; 29.6 ins. and less, in three small disturbances lying respectively over Galicia, the north of Italy, and the Riviera. Depression over North Sea subsequently moving eastwards, but new disturbances beginning to approach our western coast.

EXPLANATION OF COLUMNS GIVEN ON PAGE 1.

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

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

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

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

DAILY WEATHER REPORT.

for *Friday, 7th November, 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.	BAROMETR.		SHADE TEMP.			WIND.		Weather.	Sea. (0 to 5.)	SHADE TEMP.		Amount of Rainfall.	
				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 ...	?	32	2	0	0	29.78	- 14	32	32	+ 1	2	0	0	0	32	27	0.04	
	Hernösand ...	29.79	41	2	0	0	29.70	- 16	340	40	0	NE	2	0	0	45	34	0.20	
	Stockholm ...	29.71	44	2	0	0	29.57	- 23	43	42	0	2	0	0	48	39	0.16		
	Wishby ...	29.68	45	2	2	2	29.56	- 21	45	45	- 1	NNE	2	0	0	48	43	0.04	
	Bodö ...	29.86	40	ESE	2	0	29.62	- 11	39	35	+ 1	ESE	2	0	0	41	37		
	Christiansund	29.54	40	ESE	1	0	29.40	- 25	40	37	- 1	ESE	3	0	3	43	41		
	Skudesnaes ...	29.50	44	SE	6	0	29.34	- 38	48	43	+ 7	SE	8	0	5	50	41		
	Christiania Fjord (Fæder)	29.65	46	ESE	4	0	29.54	- 17	45	44	0	ESE	3	0	2	46	45	0.12	
	Skagen (The Scaw)	29.63	43	2	0	0	29.50	- 16	46	46	0	ESE	2	0	2	46	41	0.08	
	Fanö ...	29.61	43	5	4	0	29.41	- 26	40	39	- 3	SE	4	0	0	46	39	0.08	
BRITISH ISLANDS.	Sumburgh Head	29.21	46	SE	6	0	28.99	- 56	47	47	+ 1	SSE	7	0	7	49	37	0.27	
	Stornoway ...	28.78	46	S	8	7	29.12	- 26	44	42	- 2	W	7	0	6	47	42	1.25	
	Wick ...	29.02	45	S	9	7	29.00	- 53	46	46	+ 1	W	3	0	5	48	43	0.80	
	Nairn ...	28.97	43	S	1	7	29.05	- 48	45	45	+ 3	W	5	0	4	45	41	0.36	
	Aberdeen ...	29.15	47	SSE	8	0	28.99	- 65	44	43	+ 3	WNW	4	0	7	48	41	1.24	
	Leith ...	29.03	43	SE	2	7	28.96	- 70	45	43	+ 2	WNW	1	0	0	48	41	0.80	
	Shields ...	29.23	45	SSE	5	7	28.83	- 89	47	46	+ 8	W	1	0	4	47	36	0.27	
	Spurn Head ...	29.38	46	SSE	6	0	28.83	- 91	47	46	+ 4	W	2	0	4	50	43	0.17	
	York ...	29.38	46	SSE	2	7	28.88	- 89	44	44	+ 5	W	1	0	0	50	38	0.44	
	Loughborough	29.39	44	SSW	3	7	28.43	- 84	45	44	+ 10	WNW	6	0	0	51	35	0.49	
GERMANY & HOLLAND.	Ardrossan ...	28.88	48	S	7	7	29.03	- 58	47	44	0	W	8	0	6	48	45	0.77	
	Malin Head ...	28.69	51	S	4	0	29.20	- 17	45	42	+ 1	WNW	8	0	5	52	41	0.55	
	Mullaghmore ...	28.71	51	SW	5	7													
	Belmullet ...	28.74	50	W	4	7	29.54	+ 18	47	43	- 4	WNW	7	0	0	54	40	1.59	
	Donaghadee ...	28.81	52	SW	6	7	29.18	- 44	42	40	- 2	NNE	8	0	7	53	42	1.88	
	Liverpool (Bidston)	29.11	44	SE	6	0	29.01	- 75	44	43	+ 3	W	9	0	6	50	40	0.89	
	Holyhead ...	28.94	49	S	8	7	29.22	- 49	47	43	0	W	10	0	8	54	46	1.03	
	Parsonstown ...																		
	Valencia ...	29.06	51	WNW	9	7	29.69	+ 16	48	44	- 6	W	5	0	5	57	42	0.63	
	Roche's Point...	29.02	50	WNW	6	7	29.58	- 03	46	43	- 6	W	5	0	4	56	44	0.25	
FRANCE AND BELGIUM.	Pembroke (St. Ann's Hd.)																		
	Scilly ...	29.30	56	W	7	7	29.60	- 19	51	48	+ 1	W	8	0	6	57	47	0.89	
	Prawle Point ...	29.37	52	SSW	8	7	29.45	- 41	45	43	0	W	6	0	5	53	41	0.25	
	Jersey (St. Aubin's)	29.62	50	SSE	5	0	29.46	- 44	52	46	+ 3	WNW	8	0	6	54	48	0.42	
	Hurst Castle ...	29.48	50	SW	8	7	29.30	- 55	49	46	+ 9	W	8	0	5	58	46	0.37	
	Dungeness ...	29.61	51	SW	5	0	29.14	- 65	49	46	+ 10	W	6	0	5	58	35	0.31	
	London ...	29.52	48	S	4	0	29.12	- 69	48	44	+ 11	WNW	6	0	0	53	36	0.32	
	Oxford ...	29.22	46	SSW	6	7	29.14	- 70	45	42	+ 9	W	5	0	0	50	36	0.39	
	Cambridge ...	29.44	46	SW	2	0	29.01	- 79	46	44	+ 4	WNW	4	0	0	54	40	0.24	
	Yarmouth ...	29.55	45	SW	3	0	28.96	- 77	45	44	+ 1	W	4	0	4	49	42	0.19	
GERMANY & HOLLAND.	Cuxhaven ...	29.74	41	S	1	5	29.47	- 24	38	37	- 3	SSE	3	0	0	44	38		
	Berlin ...	29.75	45	SW	2	0	29.61	- 11	39	38	- 4	SSE	2	0	0	48	37		
	Wiesbaden ...	*	*	*	*	*	29.51	- 23	40	38	- 5	SE	1	0	0	48	37		
	Munich ...	29.87	40	W	4	7	29.59	- 19	33	33	- 5	SE	4	0	0	46	30	0.04	
	The Helder ...	29.56	42	SSE	1	5	29.15	- 56	42	41	+ 2	SSE	5	0	3	50	39		
	Brussels (9 a.m.)	*	*	*	*	*	29.27	- 51	41	40	0	SSE	7	0	0	50	39	0.08	
	Cape Gris Nez																		
	Paris ...	29.80	46	S	2	0	29.36	- 50	45	44	+ 8	SW	2	0	0	53	2	0.28	
	Brest ...	29.49	54	SSW	6	7	29.60	- 30	49	46	- 2	WNW	7	0	0	55	44	0.39	
	Lorient ...	29.64	53	S	4	7	29.63	- 33	47	45	- 3	W	6	0	0	52	46	0.43	
FRANCE AND BELGIUM.	Rochefort ...	29.86	52	S	4	7	29.65	- 34	54	51	+ 4	WNW	6	0	0	55	46	0.43	
	Belfort ...	?	44	W	1	0	?	?	35	32	- 1	W	1	0	0	49	32	0.16	
	Lyons ...	29.95	42	N	2	7	29.65	- 26	40	39	- 2	S	3	0	0	49	35	0.04	
	Nice ...	29.78	48	SW	2	0	29.71	+ 05	45	41	0	E	2	0	2	58	41		
	Perpignan ...	29.97	48	NW	2	0	29.77	- 18	44	43	- 4	W	2	0	0	56	37	0.20	
	Biarritz ...																		
	Corunna ...	*	*	*	*	*													
	Lisbon ...	29.82	58	NW	4	0	30.13	- 14	61	60	+ 8	WNW	4	0	5	63	?	0.04	

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

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

WEATHER CHARTS

for 8 a.m. on Friday 7th November,

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.

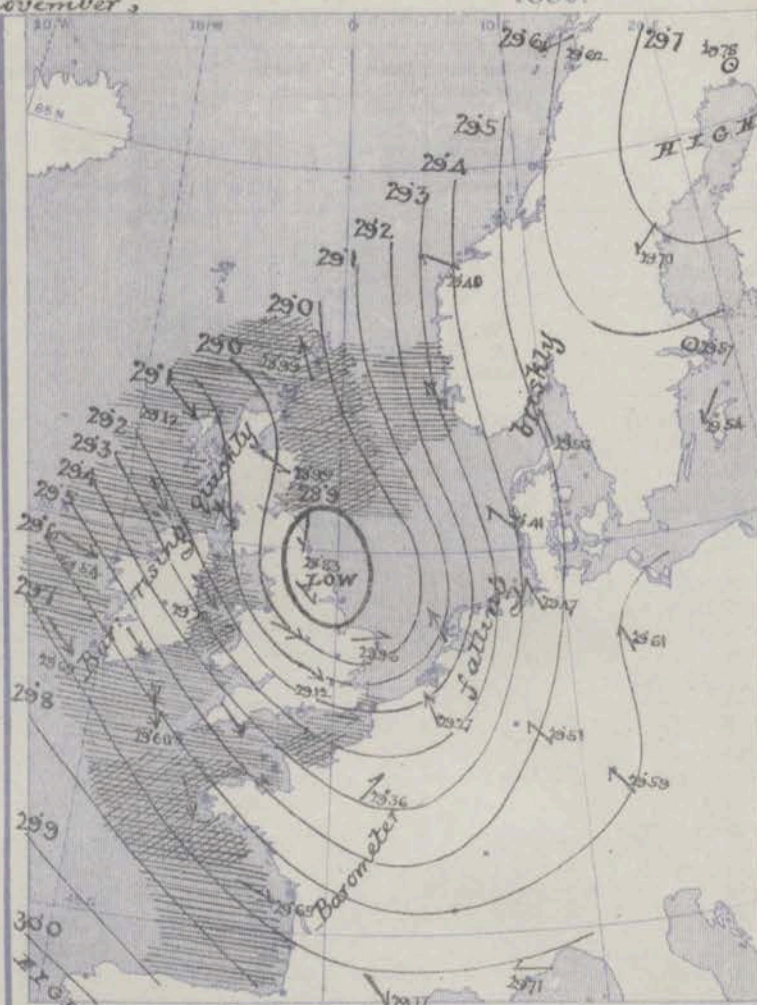
SEA DISTURBANCE—Where considerable, is shown thus:

▨ = Rough. ▨ = High.

MEAN HEIGHT OF THE BAROMETER

at 8.0 a.m. for the month of November,
During the 15 Years, 1871—1885.

STATIONS.	MEAN READINGS.
Sumburgh Head	29.087
Stornoway	29.707
Wick	29.726
Nairn	29.743
Aberdeen	29.756
Leith	29.793
Shields	29.815
York	29.844
Loughborough	29.876
Ardrossan	29.795
Donaghadee	29.811
Holyhead	29.835
Liverpool	29.852
Parsonstown	29.848
Valencia	29.864
Roshe's Point	29.862
Pembroke	29.898
Sally	29.923
Jersey	29.898
Hurst Castle	29.893
Dover	29.897
LONDON	29.893
Oxford	29.885
Cambridge	29.863
Yarmouth	29.863



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.

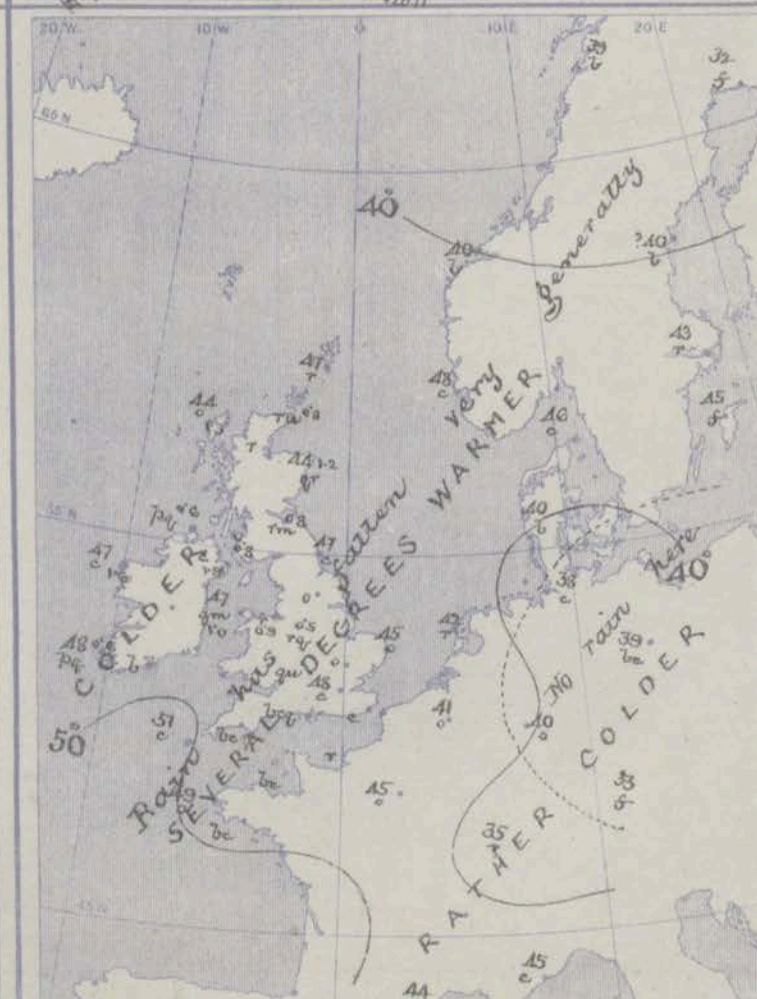
RAINFALL—A dotted line separates the districts in which rain has fallen from those where there has been none. Falls of 0.5 in. or more are quoted in figures.

MEANS OF TEMPERATURE IN SHADE, AND RAINFALL.

(For the month of November.)

STATIONS.	TEMPERATURE.				RAINFALL. (Inches.)
	Daily Max.	Daily Min.	At 8 a.m.	At 8 a.m.	
Sumburgh Head.....	45.3	37.4	41.5	30.8	4.24
Stornoway	45.7	36.7	41.0	39.9	4.60
Wick	45.7	35.7	40.9	39.3	2.97
Nairn	44.7	35.5	39.1	37.5	2.32
Aberdeen	46.1	36.3	40.3	38.5	3.10
Leith	48.2	36.7	41.2	39.6	2.11
Shields	47.1	38.1	41.5	40.2	2.63
York	47.7	36.7	40.3	39.0	2.21
Loughborough	48.0	36.4	40.2	38.0	2.30
Ardrossan	47.7	33.9	42.6	40.8	3.92
Donaghadee	48.2	39.2	42.9	41.7	3.13
Holyhead	49.7	42.8	45.5	43.8	3.71
Liverpool	47.7	39.5	42.1	40.4	2.87
Parsonstown	49.1	36.9	41.7	40.0	2.84
Valencia	52.4	42.7	47.2	45.2	5.50
Roshe's Point	51.1	41.8	45.0	44.3	4.56
Pembroke	50.2	43.7	46.7	44.7	3.96
Sally	52.9	46.7	50.0	48.0	3.70
Jersey	51.9	44.2	47.5	45.6	4.24
Hurst Castle	50.6	49.3	44.6	43.6	2.98
Dover	49.1	40.7	44.0	42.4	3.56
LONDON	49.6	37.9	42.0	40.5	2.14
Oxford	48.6	37.6	41.0	39.7	2.30
Cambridge	48.8	35.7	40.3	39.5	2.02
Yarmouth	47.9	39.1	42.0	41.8	3.15

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 in: to 29.8 in: over Spain and Portugal; (2) 29.7 in: and more, over the north of Sweden.
Lowest, about 28.8 in: along the northeast coast of England.
Gradient steep for NW winds over the western and southern parts of our Islands, and for SE winds over the North Sea.
Barometer rising quickly on our coasts falling in the Netherlands, North Germany and Denmark.

TEMPERATURE

Highest, 61° at Lisbon, 54° at Rochefort, 51° at Scilly, 48° in London and at Valencia Island.
Lowest, 33° at Munich, 35° at Belfast, 35° at Cuxhaven, 39° at Berlin, and 42° at Donaghadee.
At Paris the temperature was 45°.

WIND

SE on the eastern shores of the North Sea — moderate in some places, but blowing a gale in others.
NW in our Islands — very light off our northeast coasts, but blowing a fresh to strong gale in the northwest, west, and south.
A strong gale from the SW was felt very generally last night.

WEATHER

Cloudy, squally, and very unsettled; raining in Scotland, showing in some parts of Ireland and England.
Rainfall since yesterday has been very general — heavy at the Irish and Scotch stations.

SEA

Very high at the northern, western, and southern stations, moderate in the northeast.

PROBABLE CHANGES IN SYSTEM NOW PREVALENT

The northwesterly gale seems likely to reach our eastern coasts during the day; but will probably become more moderate in the west, with some improvement in the weather.

FORECASTS

For the 24 hours ending at NOON on 8th Nov^r 1890.

DISTRICTS.

FORECASTS.

- † SCOTLAND NORTH
- † SCOTLAND EAST
- † ENGLAND N.E.
- † ENGLAND EAST
- 4 MIDLAND COUNTIES
- † ENGLAND SOUTH

NW^{ly} gales, moderating; colder, some showers.

NW^{ly} winds, strong; squally, some showers, becoming colder.

DISTRICTS.

FORECASTS.

- † SCOTLAND WEST
- † ENGLAND N.W.
- † ENGLAND S.W.
- † IRELAND NORTH
- † IRELAND SOUTH

NW^{ly} gales, moderating considerably, with improving weather, colder.

WARNINGS

The SOUTH CONE is still flying on all our coasts

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

YESTERDAY'S 2 P.M. REPORTS.

	BAR:	THER:		WIND		WEA.	SEA		BAR:	THER:		WIND		WEA.	SEA
		D.	W.	D.	F.					D.	W.	D.	F.		
Skudesnaes ...	29.63	50	43	SE	4	6	2		Holyhead ...	29.37	48	47	SE	7	6
Sumburgh Head ...	29.33	47	46	SSE	8	0	5		Valencia ...	29.10	56	56	SW	8	6
Stornoway ...	29.04	47	47	SW	8	0	6		Scilly ...	29.52	54	54	S	6	5
Aberdeen ...	29.37	46	43	SSE	6	0 g g	6		Jersey ...	29.81	58	48	SSW	3	3
Shields ...	29.48	47	43	SSE	4	0 m	3		Dungeness ...	29.73	52	48	W	4	3
Ardrossan ...	29.24	48	46	S	6	0	6		London ...	29.70	52	47	S	2	8
Malin Head ...	28.94	48	48	SSE	6	0	3		Yarmouth ...	29.68	47	47	W	2	2
Mullaghmore ...	28.96	53	51	SSE	9	0 t	6		Rochefort ...	29.96	55	48	WNW	3	2
Belmullet ...	28.91	54	53	SW	6	0 t	*								

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

Weather fine in all the more eastern parts of Great Britain, as well as in Norway, Denmark, the Netherlands, Spain, and the south of France. Dull elsewhere with rain in the southwest of our Islands and various isolated parts of the Continent, and fog over Sweden, the Baltic and the south of Russia. Rain setting in later over the whole of the United Kingdom and France, amounts exceeding an inch at several of our northern and northwestern stations, the largest of all being 1.3 in. at Donaghadee.

Temperature highest 66° at Malta, 62° at Brindisi, 60° at Constantinople and 59° at Ovan; above 55° at nearly all the Mediterranean stations and above 50° in the extreme southwest of our Islands. Lowest, 31° at Papavanda, 32° at Archangel, and 35° at Ulenborg; below 40° over the central parts of England, France, and Spain, and not exceeding 45° in the Riviera. Daily maxima below 55° over the greater part of our Islands and France, and below 50° in our northern districts, but thermometer rising above 60° in Spain.

Wind Sth in the west and north of our Islands, and strong in force on our extreme northwestern coasts. Light or moderate from the NWth over Spain, France, Algeria, and the east and south of England. Light from the SEth in Russia and from the Eth in Norway, but variable over Denmark, Central Europe and Italy. Subsequently increasing to a strong or whole gale in all parts of the United Kingdom, from the Sth in the north, but from the SWth veering to the Wth in the south.

Barometer highest 30.2 in. and upwards, in a large anticyclone lying over Russia, and also in a smaller system lying over Spain. Lowest, 29.4 in. in a deep depression lying to the northwestward of our Islands; 29.7 in. and less, in an elongated area extending from the Baltic Provinces to the Adriatic, and also in a well defined system lying over Corsica and the Gulf of Genoa. Depression to the NWth of our Islands subsequently moving eastwards, and occasioning a rapid fall of the barometer over the whole Kingdom, with very steep gradients.

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, 8th November, 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.		SHADE TEMP.			WIND.		Weather.	Sea. (0 to 12.)	SHADE TEMP.		Amount of Rainfall.	
				Dir.	Force. (0 to 12.)		Reading at 8 A.M. and Sea Level.	Difference from 8 A.M. yesterday.	Dry.	Wet.	Difference from 8 A.M. yesterday.	Dir.	Force. (0 to 12.)			Max.	Min.		
SCANDINAVIA.	Haparanda ...	29.74	32	NE	0	0	29.82	+ 0.4	32	32	0	NE	0	1	2	34	30	-	
	Hernösand ...	29.71	40	NE	2	2	29.84	+ 0.14	40	39	0	NE	0	1	2	43	39	0.03	
	Stockholm ...	29.66	42	NE	0	0	29.83	+ 0.28	42	41	- 1	NE	2	4	2	45	37	0.69	
	Visby ...	29.68	46	NE	4	4	29.82	+ 0.28	40	39	- 5	NE	2	6	2	46	37	0.08	
	Bodö ...	29.61	40	E	2	6	29.68	+ 0.6	42	38	+ 3	ENE	2	0	1	40	36	-	
	Christiansund ...	29.46	41	ESE	2	6	29.58	+ 0.18	39	36	- 1	ESE	1	6	3	45	37	-	
	Skudesnes ...	29.54	47	SSE	8	0	29.62	+ 0.28	47	42	- 1	SE	8	0	3	48	46	-	
	Christiania Fjord (Farder)	29.64	45	ESE	2	0	29.78	+ 0.24	45	44	0	SE	3	0	2	46	45	-	
	Skagen (The Scaw)	29.59	46	S	4	0	29.74	+ 0.24	45	44	- 1	SSE	3	60	3	45	43	-	
	Faro ...	29.51	39	SE	4	6	29.65	+ 0.24	39	39	- 1	ESE	3	6	2	45	37	-	
BRITISH ISLANDS.	Sumburgh Head ...	29.31	44	WNW	2	0	29.24	+ 0.25	45	43	- 2	SSE	4	6	4	49	36	0.32	
	Stornoway ...	29.36	40	W	3	60	29.16	+ 0.4	43	42	- 1	SW	4	0	4	46	32	0.65	
	Wick ...	29.36	42	W	1	6	29.25	+ 0.25	47	45	+ 1	SW	5	00	4	47	35	0.10	
	Nairn ...	29.42	39	NE	0	6	29.24	+ 0.19	45	43	0	SW	4	0	3	46	31	-	
	Aberdeen ...	29.42	42	WNW	4	0	29.37	+ 0.38	42	40	- 2	S	3	0	4	45	33	0.04	
	Leith ...	29.45	43	W	5	0	29.36	+ 0.40	45	45	+ 3	SW	4	6	2	49	37	0.04	
	Shields ...	29.38	44	N	5	0	29.49	+ 0.66	37	35	- 10	SW	2	0	4	49	33	0.21	
	Spurn Head ...	29.18	50	N	3	0	29.55	+ 0.72	42	39	- 5	WNW	2	6m	2	49	38	0.02	
	York ...	29.30	45	WNW	5	0	29.56	+ 0.68	36	35	- 8	SSE	1	6	2	47	33	0.36	
	Loughborough ...	29.37	44	W	5	0	29.62	+ 0.69	32	32	- 13	ESE	1	6m	2	46	31	0.18	
GERMANY & HOLLAND.	Ardrossan ...	29.49	43	NW	3	6	29.34	+ 0.31	51	50	+ 4	SW	4	cpm	4	51	37	0.05	
	Malin Head ...	29.51	46	WNW	2	6	29.28	+ 0.08	46	44	+ 1	SW	4	0	3	48	42	0.28	
	Mullaghmore ...	29.57	49	WNW	2	0	29.33	- 0.21	47	43	0	W	4	0	2	52	45	0.08	
	Belmullet ...	29.54	44	N	4	60	29.40	+ 0.22	48	47	+ 6	SW	3	0	0	50	42	0.01	
	Donaghadee ...	29.54	44	N	4	60	29.40	+ 0.22	48	47	+ 6	SW	3	0	0	50	42	0.01	
	Liverpool (Bidston)	29.49	48	NW	7	0	29.53	+ 0.52	43	42	- 1	WNW	3	60	3	48	39	0.30	
	Holyhead ...	29.56	49	WNW	6	0	29.48	+ 0.26	53	51	+ 6	SW	4	cpm	4	53	44	0.01	
	Parsonstown ...	29.66	42	W	0	6	29.41	- 0.25	50	48	- 2	W	0	0	2	51	41	0.03	
	Valencia ...	29.73	52	WNW	3	0	29.46	- 0.23	53	53	+ 5	WNW	3	rgm	2	54	45	0.19	
	Roche's Point ...	29.73	49	WNW	3	60	29.47	- 0.11	53	53	+ 7	SW	5	7	4	53	46	0.15	
FRANCE AND BELGIUM.	Pembroke (St. Ann's Hd.)	29.65	49	NW	6	60	29.58	+ 0.52	54	53	+ 1	SW	4	cpm	5	54	47	0.03	
	Scilly ...	29.75	52	NW	7	60	29.65	+ 0.05	52	52	+ 1	WNW	4	0	5	52	47	0.18	
	Prawle Point ...	29.67	45	NW	4	6	29.70	+ 0.25	49	48	+ 4	WNW	3	60	2	51	43	0.02	
	Jersey (St. Aubin's)	29.66	49	NW	6	0	29.74	+ 0.28	50	48	- 2	NW	3	cpm	3	53	47	0.10	
	Hurst Castle ...	29.50	48	NW	7	60	29.68	+ 0.38	45	43	- 4	W	0	60	3	51	39	-	
	Dungeness ...	29.33	44	WNW	7	rg	29.61	+ 0.47	42	40	- 7	N	4	0	4	50	40	0.10	
	London ...	29.36	42	NW	7	rg	29.64	+ 0.52	38	37	- 10	SW	1	6	2	49	37	0.08	
	Oxford ...	29.50	45	NW	5	0	29.65	+ 0.51	37	36	- 8	SW	1	6	2	49	36	0.08	
	Cambridge ...	29.28	43	NW	4	0	29.84	+ 0.63	39	38	- 7	SW	1	6	2	48	38	0.17	
	Yarmouth ...	29.12	45	NW	4	0	29.53	+ 0.57	44	43	- 1	WNW	3	60	2	46	42	0.13	
GERMANY & HOLLAND.	Cuxhaven ...	29.44	43	SSE	3	0	29.64	+ 0.17	43	42	+ 5	SE	2	60	2	47	37	-	
	Berlin ...	29.57	43	SE	3	6	29.73	+ 0.12	40	39	+ 1	S	2	6	2	48	39	-	
	Wiesbaden ...	29.62	40	W	3	0	29.71	+ 0.20	43	42	+ 3	S	2	0	2	45	37	0.04	
	Munich ...	29.62	40	W	3	0	29.75	+ 0.16	43	42	+ 3	SW	2	0	2	43	37	-	
	The Helder ...	29.26	44	SE	4	0	29.85	+ 0.40	43	43	+ 1	SE	1	0	2	46	37	0.04	
	Brussels (O. A. M.)	29.58	48	W	5	0	29.63	+ 0.31	44	44	+ 3	SSE	4	0	2	49	41	0.04	
	Cape Gris Nez ...	29.24	48	W	5	0	29.69	+ 0.33	46	44	+ 1	NW	2	0	5	52	41	0.08	
	Paris ...	29.58	44	WNW	6	0	29.77	+ 0.17	51	50	+ 2	W	1	0	3	55	43	-	
	Brest ...	29.80	53	WNW	6	0	29.81	+ 0.15	52	50	+ 5	WNW	3	60	5	55	46	-	
	Lorient ...	29.80	50	NW	6	0	29.81	+ 0.15	52	50	+ 5	WNW	3	60	5	55	46	-	
FRANCE AND BELGIUM.	Rochefort ...	29.82	52	NW	6	60	29.86	+ 0.21	53	51	- 1	WNW	5	0	2	57	45	0.12	
	Belfort ...	29.82	35	W	1	0	29.86	+ 0.21	53	52	+ 2	W	1	0	2	45	32	0.20	
	Lyons ...	29.74	43	W	3	0	29.83	+ 0.18	39	39	- 1	NW	2	0	2	50	38	0.04	
	Nice ...	29.53	46	NNE	5	6	29.36	- 0.15	43	37	- 2	SE	2	0	2	55	39	-	
	Perpignan ...	29.82	50	NW	4	0	29.88	+ 0.11	49	44	+ 5	NW	2	0	2	59	42	0.08	
	Biarritz ...	29.45	55	NW	8	0	29.97	+ 0.11	55	50	+ 5	N	6	0	6	57	42	0.43	
	Corunna ...	29.18	56	WNW	4	6	30.17	+ 0.04	53	50	- 8	WNW	4	6	3	63	52	0.04	
	Lisbon ...	29.18	56	WNW	4	6	30.17	+ 0.04	53	50	- 8	WNW	4	6	3	63	52	0.04	
	Peninsular ...	29.18	56	WNW	4	6	30.17	+ 0.04	53	50	- 8	WNW	4	6	3	63	52	0.04	

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

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

WEATHER CHARTS

for 8 a.m. on

Saturday, 8th November,

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

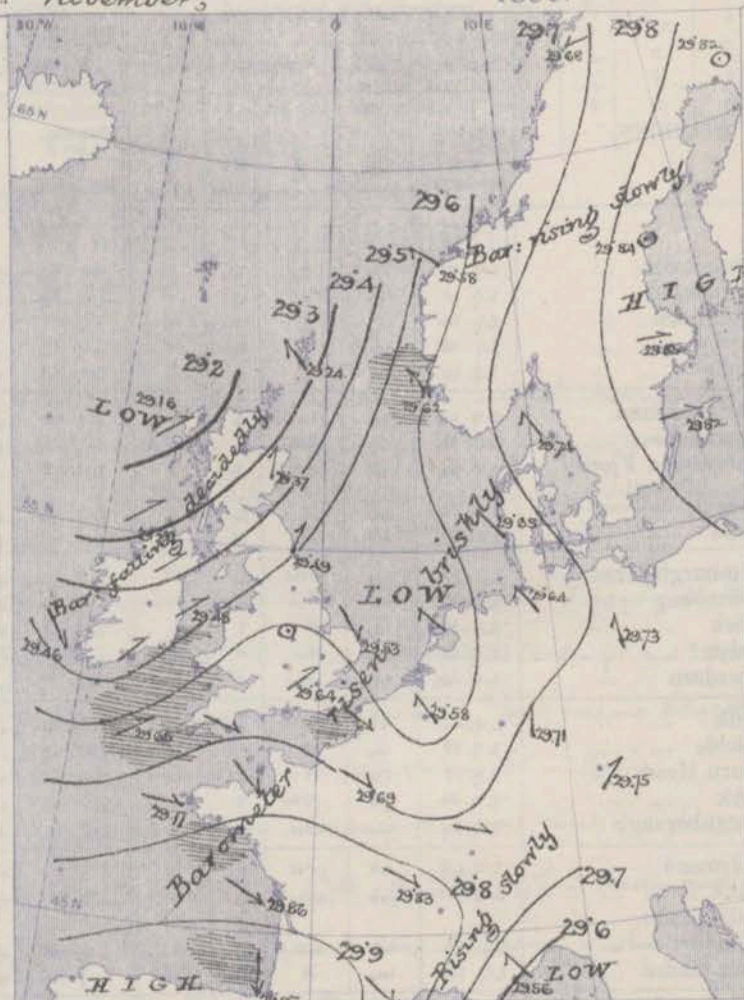
at 8.0 a.m. for the month of November.

During the 15 Years, 1871—1885.

STATIONS.

MEAN READINGS.

STATIONS.	MEAN READINGS.
Sumburgh Head	29.687
Stornoway	29.707
Wick	29.726
Nairn	29.743
Aberdeen	29.750
Leith	29.793
Shields	29.815
York	29.841
Loughborough	29.876
Ardrossan	29.793
Donaghadee	29.811
Holyhead	29.835
Liverpool	29.852
Parsonstown	29.848
Valencia	29.864
Roche's Point	29.861
Pembroke	29.862
Sailly	29.898
Jersey	29.923
Hurst Castle	29.898
Dover	29.803
LONDON	29.897
Oxford	29.893
Cambridge	29.885
Yarmouth	29.863



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 given by letters of the Beaufort Scale.

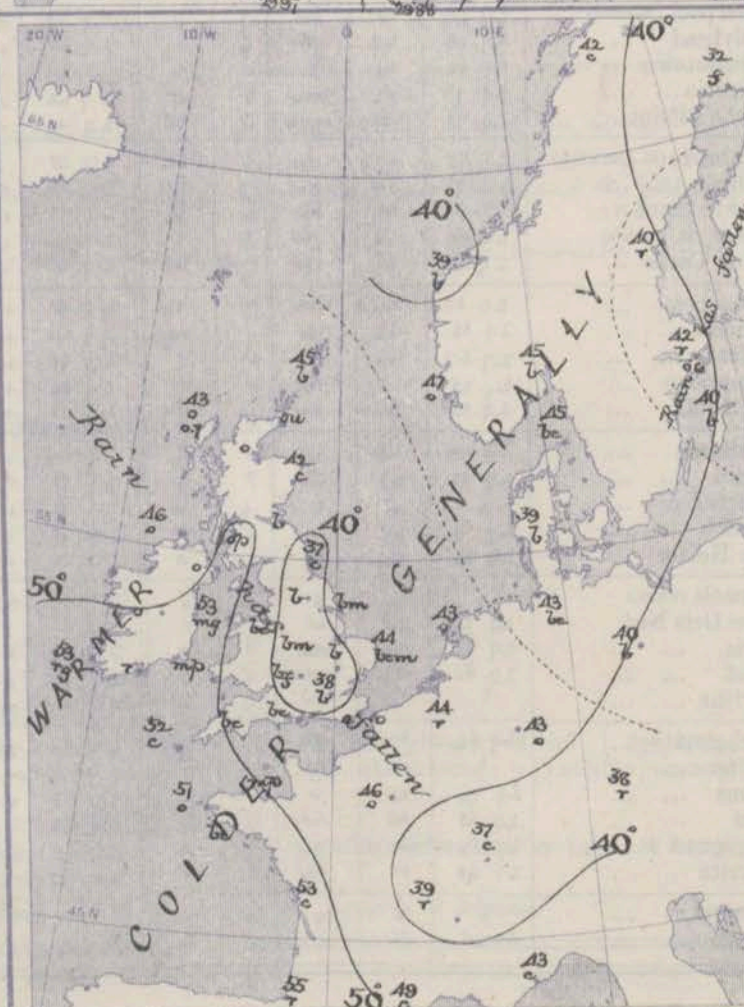
RAINFALL—A dotted line separates the districts in which rain has fallen from those where there has been none. Falls of 0.5 in. or more are quoted in figures.

MEANS OF TEMPERATURE IN SHADE. AND RAINFALL.

(For the month of November.)

STATIONS.	TEMPERATURE.				RAINFALL. (Inches.)
	Daily Max.	Daily Min.	at 8 a.m.		
			Dry.	Wet.	
Sumburgh Head.....	45.3	37.4	41.5	39.8	4.24
Stornoway	45.7	36.7	41.0	39.9	4.60
Wick	45.7	35.7	40.9	39.3	2.97
Nairn	44.7	35.5	39.1	37.5	2.32
Aberdeen	46.1	36.3	40.3	38.5	3.16
Leith	48.2	36.7	41.2	39.6	2.11
Shields	47.1	38.1	41.8	40.2	2.63
York	47.7	36.1	40.3	39.0	2.21
Loughborough	48.0	36.4	40.2	38.9	2.30
Ardrossan	47.7	35.9	42.6	40.8	3.92
Donaghadee.....	48.2	39.2	42.9	41.7	3.13
Holyhead.....	49.7	42.8	45.5	43.8	3.71
Liverpool	47.7	39.5	42.1	40.4	2.87
Parsonstown	49.4	36.9	41.7	40.0	2.84
Valencia	52.4	42.7	47.2	45.2	5.50
Roche's Point.....	51.1	41.8	45.9	44.3	4.56
Pembroke.....	50.2	43.7	46.7	44.7	3.96
Sailly	52.5	46.7	50.0	48.0	3.76
Jersey	51.9	44.2	47.5	45.6	4.23
Hurst Castle	50.5	40.3	44.6	43.6	2.98
Dover	49.1	40.7	44.0	42.4	3.56
LONDON	49.6	37.9	42.0	40.5	2.14
Oxford	48.6	37.6	41.0	39.7	2.90
Cambridge	48.8	35.7	40.3	39.5	2.02
Yarmouth	47.5	39.4	42.9	41.8	3.15

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



GENERAL SITUATION AT 8 A.M.

PRESSURE	<p>Highest, 30.1 vis: and upwards, in Portugal; 29.8 vis: and upwards in Sweden.</p> <p>Lowest, 29.2 vis: and less, in a depression lying off the northwest of Scotland; 29.1 vis: and less, in a shallow system lying between the English and Dutch coasts.</p> <p>Gradients moderate over the northern parts of our Islands and the North Sea, but slight elsewhere.</p> <p>Barometer falling decidedly at most of our western and northern stations, but rising elsewhere.</p>
TEMPERATURE	<p>Highest, 55° at Barmby, 54° at Lumbroke, and 53° at Holyhead, Valencia Island, Rocherpoint, Rochefort, and Dabon.</p> <p>Lowest, 32° at Naparunda and Roughborough, 36° at York, 37° at Shields, Deford and Belfast, and 38° in London and at Munich.</p> <p>Frost was experienced last night in the north of Scotland, and (on the surface of the ground) over the inland parts of England.</p>
WIND	<p>Moderate from the SWnd at most of our western and northern stations, but light from NNW, at Valencia Island.</p> <p>Light or moderate from the NWnd over France and the southeast and south of England.</p> <p>SW in Germany; SW on the eastern shores of the North Sea, with a gale at Skudenaaes.</p>
WEATHER	<p>Fine over the greater part of England, as well as in Norway, Denmark, and North Germany.</p> <p>Cloudy or overcast elsewhere, with rain in the south of Ireland and also at Brussels and Lyons.</p> <p>Rain fell yesterday in nearly all parts of Western Europe. Lightning and bright aurora were seen at Kirk and Aberdeen.</p>
SEA	<p>Rather rough on our southwestern and the French coast, as well as at Skudenaaes, but moderate or slight elsewhere.</p>

PROBABLE CHANGES IN SYSTEM NOW PREVALENT

The new depression in the northwest seems likely to spread over the Kingdom and to occasion rain in most districts. The system is, however, not yet sufficiently deep to produce any serious increase of wind.

FORECASTS

For the 24 hours ending at NOON on 9th Nov^r 1890.

DISTRICTS.	FORECASTS.	DISTRICTS.	FORECASTS.
0 SCOTLAND NORTH	S ² winds, increasing in force; cloudy, some rain	6 SCOTLAND WEST	SW ² winds, freshening; dull, some rain
1 SCOTLAND EAST		7 ENGLAND N.W.	
2 ENGLAND N.E.	S ² winds, freshening; fair to dull and rainy.	8 ENGLAND S.W.	
3 ENGLAND EAST	SW ² and S ² winds, freshening; fine to dull and rainy.	9 IRELAND NORTH	Varying W ² (SW to NW) winds; unsettled, rain at times.
4 MIDLAND COUNTIES		10 IRELAND SOUTH	
5 ENGLAND SOUTH		WARNINGS	The SOUTH CONE is still flying in districts 2, 3, and 5.

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

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

YESTERDAY'S 2 P.M. REPORTS.

THER: WIND										THER: WIND									
BAR:		D.	W.	D.	F.	WEA.	SEA	BAR:		D.	W.	D.	F.	WEA.	SEA				
Skudesnaes ...	29.45	47	43	SE	8	0	5	Holyhead ...	29.42	49	44	W	9	bc	7				
Sumburgh Head ...	29.13	45	45	W	3	1	6	Valencia ...	29.77	52	49	W	5	bc	4				
Stornoway ...	29.34	46	44	W	3	0	4	Scilly ...	29.70	52	50	W	7	bc	5				
Aberdeen ...	29.38	44	41	W	7	0	6	Jersey ...	29.60	53	46	W	7	0	5				
Shields ...	29.15	48	47	W	7	1	6	Dungeness ...	29.26	49	45	W	7	0	5				
Ardrossan ...	29.33	48	46	W	7	6	5	London ...	29.25	48	45	W	6	bc	4				
Mulin Head ...	29.45	48	44	W	4	bc	4	Yarmouth ...	29.01	45	44	W	6	bc	4				
Mullaghmore ...								Rochefort ...	29.76	54	50	W	6	bc	4				
Belmullet ...	29.62	49	45	W	5	bc	*												

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

Weather dull and unsettled over the greater part of Europe, but fine over Scandinavia, the southwest of our Islands, and some parts of Germany and Algeria. Rain falling over Central England and the east of Scotland, as well as over the Gulf of Genoa and some parts of France; fog reported at some of the Swedish and Baltic stations. Rain falling during day in most parts of Western Europe; lightning and bright aurora seen in the north of Scotland at night.

Temperature highest 61° at Lisbon and Brindisi, 60° at San Fernando and 59° at Oporto and Constantinople; above 50° at most of the Spanish and Mediterranean stations and also in the Channel Islands. Lowest (1) 32° at Haparanda, 33° at Archangel, and 35° at Uleaborg; (2) 33° at Munich, 35° at Belfast, and 37° at Breslau and Racow. Daily maxima below 50° over the greater part of the United Kingdom; frost occurring over the north of Scotland at night and also (on the ground) over the inland parts of England.

Wind NW³ over the greater part of the United Kingdom and also in the north of France, light or moderate in force on our eastern coast, but strong to a gale elsewhere; gale severe over the Irish Sea. SE³ over nearly the whole of northern and central Europe, with a gale at Skudesnaes. Moderate from the W² in Spain; light from the NW² or NW³ in Italy and Tunis; S³ in Algeria. Gale moderating over our Islands later and wind backing to W or SW on our extreme western coasts.

Barometer highest, 30.1 in: and upwards, in a large anticyclone lying over Russia, and also in a smaller system lying to the southwestward of the Iberian Peninsula. Lowest, 28.9 in: and less, in a deep depression lying off the northeast of England (gradient very steep over the west and south of our Islands); 29.5 in: and less, in a shallow system lying over the Gulf of Riga; 29.6 in: and less, in a still shallower disturbance over the southern part of the Adriatic. Depression off our northeast coasts subsequently moving slowly southwards and becoming very much shallower; barometer beginning to fall again in extreme west in evening.

EXPLANATION OF COLUMNS GIVEN ON PAGE 1.

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

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

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

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

DAILY WEATHER REPORT.

for Sunday 9th NOVEMBER 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.	Force.	Weather.	Barometer.	Shade Temp.		Wind.	Force.	Weather.	Force.	Weather.	Force.	Weather.	Max.	Min.	Amount of Rainfall.
	Reading at 5 P.M. and Sea Level.	Dry.	Dir.	(0 to 12.)		Reading at 8 A.M. and Sea Level.	Dry.	Wet.	Dir.	(0 to 12.)		Dry.	Wet.	(0 to 12.)				
SCANDINAVIA.	Haparanda ...	30.01	34	Z	0	0	30.25	+ 4.3	32	32	0	NE	2	f	*	34	27	—
	Hernösand ...	30.05	33	SW	2	0	30.20	+ 3.6	39	38	— 1	Z	0	r	*	43	37	—
	Stockholm ...	30.06	31	Z	0	0	30.06	+ 2.1	39	39	— 3	NE	2	r	*	45	37	—
	Wisby ...	29.94	39	N	4	0	29.82	00	44	42	+ 4	ESE	6	r	*	45	36	—
	Bodö ...	29.85	35	ESE	1	0	30.09	+ 4.1	38	38	— 4	ESE	14	b	2	43	34	—
	Christiansund	29.69	42	E	4	0	29.81	+ 2.3	43	38	+ 4	ESE	5	b	3	43	31	—
	Skudesnaes ...	29.66	49	SE	8	0	29.79	+ 0.8	49	45	+ 2	SE	6	c	5	?	36	—
	Christiania Fjord (Færd)	29.89	42	ESE	3	0	29.91	+ 1.3	44	41	— 1	ESE	5	o	3	46	41	—
	Skagen (The Scaw)	29.82	46	SE	4	0	29.82	+ 0.8	45	44	0	SE	5	o	4	46	45	—
	Fanö ...	29.68	41	SE	4	0	29.66	+ 0.1	42	41	+ 3	ESE	4	c	*	45	39	—
BRITISH ISLANDS.	Sumburgh Head	29.29	49	SSE	3	0	29.43	+ 1.9	48	47	+ 3	SE	5	a	6	49	42	0.05
	Stornoway ...	29.18	43	N	3	0	29.36	+ 2.0	36	35	— 7	N	2	bc	3	46	33	—
	Wick ...	29.44	40	S	1	r	29.40	+ 1.5	40	40	— 7	N	1	o	4	49	39	0.40
	Nairn ...	29.25	42	Z	0	r	29.39	+ 1.5	38	37	— 7	Z	0	or	1	38	37	0.24
	Aberdeen ...	29.27	48	SSE	6	0	29.36	— 0.1	45	44	+ 3	SE	4	opqr	6	49	41	0.96
	Leith ...	29.26	46	N	2	r	29.34	— 0.2	41	40	— 7	NNW	2	r	*	32	40	0.84
	Shields ...	29.34	48	S	2	0	29.24	— 2.5	49	48	+ 12	ESE	4	r	5	49	35	0.10
	Spurn Head ...	29.42	47	SSE	4	c	29.26	— 1.7	42	41	0	SSW	3	o	4	50	40	0.01
	York ...	29.57	47	S	2	r	29.24	— 3.2	42	41	+ 6	S	1	o	*	49	35	0.10
	Loughborough	29.42	47	SE	2	0	29.35	— 2.7	41	40	+ 9	N	3	c	*	32	32	0.07
GERMANY & HOLLAND.	Ardrossan ...	29.26	46	ESE	1	0	29.36	+ 0.2	43	41	— 8	NNW	1	o	1	30	41	0.19
	Malin Head ...	29.24	43	SW	4	0	29.37	+ 0.9	39	38	— 7	SSW	2	om	5	47	38	0.01
	Mullaghmore ...	29.30	44	N	5	c	29.45	+ 1.1	42	41	— 4	SW	4	c	6	48	38	0.01
	Belmullet ...	29.32	42	N	3	c	29.46	+ 1.3	45	43	— 2	NNW	3	o	*	47	41	0.06
	Donaghadee ...	29.30	44	N	3	c	29.40	00	39	37	— 9	WSW	3	c	2	49	33	0.04
	Liverpool (Bidston)	29.31	46	WSW	3	r	29.36	— 1.7	43	41	0	NNW	4	o	4	54	41	0.89
	Holyhead ...	29.32	46	WSW	2	r	29.40	— 0.8	44	41	— 9	NNW	4	o	4	54	44	0.33
	Parsonstown ...	29.26	41	Z	0	0	29.47	+ 0.6	32	31	— 18	Z	0	bc	*	30	31	0.13
	Valencia ...	29.44	43	NNW	3	0	29.57	+ 1.1	47	43	— 6	NW	5	cq	5	53	40	0.15
	Roche's Point ...	29.42	48	NNW	3	bc	29.48	+ 0.1	43	43	— 10	NNW	5	p	4	53	34	0.80
FRANCE AND BELGIUM.	Pembroke (St. Ann's Hd.)	29.33	46	N	4	r	29.46	— 1.2	45	42	— 9	NNW	4	bc	4	55	44	0.40
	Scilly ...	29.40	48	NNW	5	r	29.53	— 1.2	48	45	— 4	NNW	4	o	5	56	45	0.30
	Prawle Point ...	29.36	32	S	6	r	29.50	— 2.0	32	38	— 10	NNW	3	bc	3	36	37	0.20
	Jersey (St. Aubin's)	29.54	54	S	4	c	29.53	— 2.1	47	42	— 3	NNW	4	opqr	4	57	46	0.26
	Hurst Castle ...	29.44	54	SW	4	p	29.47	— 2.1	43	41	— 2	NNW	4	b	3	56	41	0.22
	Dungeness ...	29.32	51	N	4	0	29.41	— 2.0	41	40	— 1	NNW	4	o	3	55	40	0.06
	London ...	29.48	49	SSE	2	op	29.39	— 2.5	40	38	+ 2	N	2	bc	*	55	38	0.08
	Oxford ...	29.37	48	SSE	2	0	29.42	— 4.3	36	35	— 1	WSW	1	b	*	51	36	0.09
	Cambridge ...	29.45	47	SW	1	0	29.38	— 2.6	41	40	+ 2	SW	2	c	*	55	37	0.03
	Yarmouth ...	29.51	46	NNW	2	0	29.33	— 2.0	44	43	0	N	3	orm	4	49	43	0.09
GERMANY & HOLLAND.	Cuxhaven ...	29.69	42	SSE	3	bc	29.66	+ 0.2	38	38	— 5	SE	3	m	*	48	38	—
	Berlin ...	29.78	41	E	2	f	29.70	— 0.8	43	42	+ 3	NNW	2	o	*	46	41	0.04
	Wiesbaden ...	*	*	*	*	*	29.64	— 0.7	36	36	— 7	Z	0	b	*	46	36	—
	Munich ...	29.77	38	N	1	r	29.66	— 1.9	37	36	— 1	SE	5	o	*	41	36	0.08
	The Helder ...	29.53	45	SSE	1	f	29.48	— 0.7	42	43	+ 1	SE	2	c	2	46	43	—
	Brussels (9 a.m.)	*	*	*	*	*	29.47	— 1.1	43	42	— 1	SE	5	c	*	47	39	—
	Cape Gris Nez	29.50	48	N	4	0	29.35	— 2.8	44	44	— 2	N	4	o	5	52	40	0.16
	Paris ...	29.67	48	S	2	r	29.41	— 2.8	46	45	0	SW	2	o	*	?	45	0.16
	Brest ...	29.41	63	SW	6	r	29.44	— 2.3	47	46	— 4	NNW	4	o	4	55	43	0.32
	Lorient ...	29.33	54	SW	5	r	29.60	— 2.1	44	42	— 8	NNW	2	c	5	55	43	0.28
FRANCE AND BELGIUM.	Rochefort ...	29.81	53	SW	3	0	29.69	— 1.7	50	47	— 3	NNW	2	tl	3	57	45	0.71
	Belfort ...	29.92	44	N	1	0	29.93	— 1.7	32	26	— 5	N	1	bc	*	45	32	—
	Lyons ...	29.83	41	NNW	1	0	29.66	— 1.7	39	38	— 0	SSE	1	r	*	45	37	0.04
	Nice ...	29.63	48	E	4	b	29.67	+ 1.1	42	36	— 1	E	4	b	1	50	41	—
	Perpignan ...	29.24	51	NNW	3	b	29.73	— 1.5	48	46	— 1	NNW	1	r	*	57	39	—
	Biarritz ...	29.27	50	SW	3	0	29.76	— 2.1	53	49	— 2	NNW	8	r	5	57	36	0.35
	Corunna ...	*	*	*	*	*	29.98	— 1.0	53	50	— 2	N	6	c	6	61	46	0.48
	Lisbon ...	30.10	57	NNW	4	b	30.12	— 0.4	50	52	+ 3	NNW	14	bc	5	63	45	0.04

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

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

WEATHER CHARTS

for 8 a.m. on

Sunday, 9th November,

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

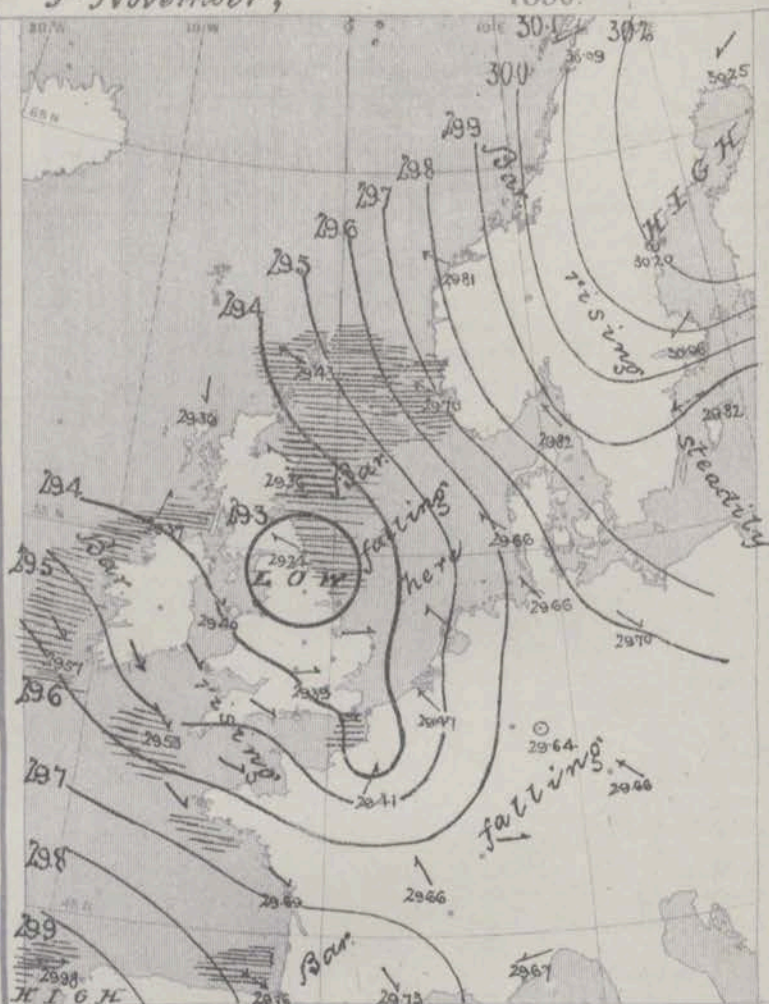
at 8.0 a.m. for the month of November.

During the 15 Years 1871–1885.

STATIONS.

MEAN READINGS.

STATIONS.	MEAN READINGS.
Sumburgh Head	29.687
Stormoway	29.707
Wick	29.726
Nairn	29.743
Aberdeen	29.756
Leith	29.793
Shields	29.815
York	29.844
Loughborough	29.876
Ardrrossan	29.795
Donaghadee	29.811
Holyhead	29.835
Liverpool	29.852
Parsonstown	29.848
Valencia	29.864
Roche's Point	29.864
Pembroke	29.862
Scilly	29.898
Jersey	29.923
Hurst Castle	29.898
Dover	29.893
LONDON	29.897
Oxford	29.893
Cambridge	29.885
Yarmouth	29.863



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.

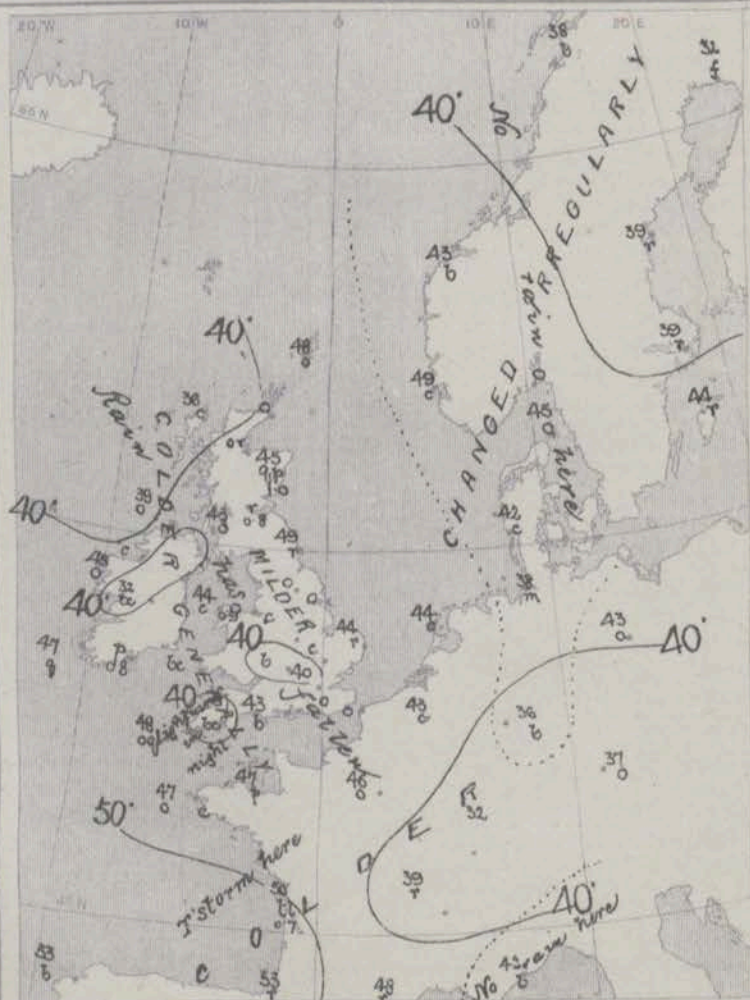
RAINFALL—A dotted line separates the districts in which rain has fallen from those where there has been none. Falls of 0.5 in. or more are quoted in figures.

MEANS OF TEMPERATURE IN SHADE, AND RAINFALL.

(For the month of November.)

STATIONS.	TEMPERATURE.				RAINFALL. (Inches.)
	Daily Max.	Daily Min.	of 24 Hrs. Dry.	Wet.	
Sumburgh Head	45.3	37.4	41.5	39.8	4.24
Stormoway	45.7	36.7	41.0	39.9	4.60
Wick	45.7	35.7	40.9	39.8	2.97
Nairn	44.7	35.5	39.1	37.5	2.32
Aberdeen	46.1	36.3	40.3	38.5	3.16
Leith	48.2	36.7	41.2	39.6	2.11
Shields	47.1	38.1	41.8	40.2	2.03
York	47.7	36.1	40.3	39.0	2.21
Loughborough	48.0	36.4	40.2	38.9	2.30
Ardrrossan	47.7	38.9	42.6	40.8	3.92
Donaghadee	48.2	39.2	42.9	41.7	3.13
Holyhead	49.7	42.8	45.5	43.8	3.71
Liverpool	47.7	39.5	42.1	40.4	2.87
Parsonstown	49.1	36.9	41.7	40.0	2.84
Valencia	52.4	42.7	47.2	45.2	5.50
Roche's Point	51.1	41.8	45.9	44.3	4.66
Pembroke	50.2	43.2	46.7	44.7	3.96
Scilly	52.5	46.7	50.0	48.0	3.76
Jersey	51.9	44.2	47.5	45.8	4.21
Hurst Castle	50.5	40.3	44.6	43.6	2.98
Dover	49.4	40.7	44.0	42.4	3.36
LONDON	49.6	37.9	42.0	40.5	2.14
Oxford	48.6	37.6	41.0	39.7	2.30
Cambridge	48.8	37.7	40.3	39.5	2.02
Yarmouth	47.5	39.1	42.9	41.8	3.13

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, 30.2 in. and upwards, over the Gulf of Bothnia, and 30.1 in. over the southeastern part of the Iberian Peninsula.
lowest, 29.3 in. and less, in a depression lying over the northeast of England.

Gradient moderate over the United Kingdom and Scandinavia, slight elsewhere.

Barometer falling over the southeast of England and in some parts of France and Germany, rising at all our northern and western stations.

TEMPERATURE

Highest, 53° at Biarritz, 50° at Rochefort, 49° at Brest, and 48° at Guernsey, Scilly, and at Keflavik.

Lowest, 32° at Naparanda, Parnassos, and Belfast, 36° at St. Mary's, 38° at Vain, and 39° at Hornsea, Stockholm, and Lyons.

It has fallen considerably in most parts of the United Kingdom and in France.

WIND

Moderate from the NWrd at the western stations, but fresh SE breezes reported in Scotland, and on the eastern shore of the North Sea. Light and variable (cyclonic) over England.

WEATHER

Weather fine in the northwest of Norway and at some of the southern English stations, but dull or cloudy in nearly all other places, with rain on our northeast coasts and also in the south of France. Thunderstorm at Rochefort.
Rain fell yesterday except over Scandinavia - heavily at some of the western and northern stations.

SEA

Rough on our northeast coasts, also in the extreme west, moderate elsewhere.

PROBABLE CHANGES IN SYSTEM NOW PREVALENT

FORECASTS

For the 24 hours ending at NOON on 10th Nov^r 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:	THER:		WIND		WEA.	SEA
		D.	W.	D.	F.					D.	W.	D.	F.		
Skudesnaes ...	29.64	48	44	SSE	8	0	5	Holyhead ...	29.42	52	51	W	4	pgm	4
Sumburgh Head ...	29.26	48	48	SSE	4	r	5	Valencia ...	29.44	44	43	WNW	5	omfg	5
Sternoway ...	29.17	42	41	SH	4	0	4	Scilly ...	29.44	55	55	SSH	5	ou	5
Aberdeen ...	29.32	48	46	SSE	4	ogv	4	Jersey ...	29.66	55	53	SH	4	0	4
Shields ...	29.39	48	45	S	4	cm	3	Dungeness ...	29.57	53	49	NW	3	7	2
Ardrossan ...	29.46	48	47	SSE	1	r	1	London ...	29.56	54	50	SH	3	6	*
Malin Head ...	29.24	45	42	SH	4	0	4	Yarmouth ...	29.54	49	47	NW	2	6	?
Mullaghmore ...	29.28	47	44	SH	5	og	4	Rocheport ...	29.24	52	50	WNW	5	r	?
Belmullet ...	29.31	45	42	WSW	3	0	*								

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

Continental Information to follow.

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, 10th November, 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.	
				Dir.	Force. (0 to 12.)		Reading at 32° F. and Sea Level.	Difference from 8 a.m. yesterday.	Dry.	Wet.	Difference from 8 a.m. yesterday.	Dir.	Force. (0 to 12.)			Max.	Min.		
SCANDINAVIA.		Haparanda ...	30.50	28	NE	4	0	30.56	+ .21	24	24	- 8	NE	2	0	*	36	24	-
		Hernösand ...	30.30	34	NE	2	7	30.34	+ .14	38	38	- 1	E.NE	2	7	*	41	34	0.08
		Stockholm ...	30.01	44	E	6	7	30.08	+ .02	44	43	+ 5	E	4	7	*	43	34	0.04
		Visby ...	29.93	48	E	4	0	29.95	+ .13	47	46	+ 3	E	4	0	*	48	36	0.04
		Bodö ...	30.21	39	E	4	0	30.19	+ .10	42	36	+ 4	E	4	0	2	34	-	-
		Christiansund ...	29.90	44	ESE	5	0	29.87	+ .06	46	42	+ 3	ESE	4	0	3	46	43	-
		Skudesnaes ...	29.76	48	SE	2	0	29.81	+ .11	46	44	+ 3	E.NE	1	0	8	50	45	-
		Christiania Fjord (Færder) ...	29.85	40	NNE	5	7	29.89	- .02	47	46	+ 3	NNE	3	7	2	41	1.02	-
		Skagen (The Seaw) ...	29.71	42	E	4	7	29.81	- .01	47	47	+ 2	E	0	7	2	48	41	0.28
		Fanö ...	29.69	40	E	4	0	29.76	+ .10	41	41	- 1	E	3	0	*	46	39	-
		Sumburgh Head ...	29.67	47	NE	6	7	29.71	+ .28	46	45	- 2	SE	4	0	6	49	41	0.12
		Stornoway ...	29.52	43	S	3	7	29.52	+ .16	46	44	+ 10	SE	5	0	4	46	34	0.05
		Wick ...	29.50	45	S	5	7	29.64	+ .24	47	45	+ 7	S	5	0	6	48	38	0.35
		Nairn ...	29.46	42	W	2	0	29.60	+ .21	34	33	- 4	ESE	1	0	1	44	33	0.20
		Aberdeen ...	29.45	48	ESE	5	cqfu	29.66	+ .30	44	41	- 1	SSE	2	0	5	49	43	0.26
		Leith ...	29.34	44	E	1	7	29.62	+ .28	33	33	- 8	SE	1	0	*	46	31	0.47
		Shields ...	29.30	41	WNW	1	0	29.62	+ .38	40	37	- 9	SE	3	0	3	50	33	0.25
		Spurn Head ...	29.46	42	SW	3	0	29.66	+ .40	40	40	0	SSE	3	0	3	46	38	-
		York ...	29.41	40	W	1	0	29.64	+ .40	36	35	- 6	SE	1	0	*	45	32	0.01
		Loughborough ...	29.51	38	SW	1	0	29.65	+ .30	34	33	- 7	SE	2	0	*	49	29	-
		Ardrossan ...	29.37	41	N	2	7	29.55	+ .19	36	36	- 7	E.NE	2	0	1	45	35	0.12
		Malin Head ...	29.44	46	N	5	0	29.48	+ .11	44	42	+ 5	SE	4	0	5	46	39	0.14
		Mullaghmore ...	29.54	45	WNW	5	cqfu	29.54	+ .14	45	41	+ 3	NW	5	0	4	47	40	0.26
		Belmullet ...	29.62	45	N	3	0	29.56	+ .10	35	33	- 10	S	1	0	*	47	34	0.13
		Donaghadee ...	29.43	43	W	3	0	29.49	+ .09	43	42	+ 4	ESE	7	0	5	44	38	0.21
		Liverpool (Bidston) ...	29.46	41	W	2	7	29.51	+ .15	40	39	- 3	SSE	3	0	4	45	34	0.27
		Holyhead ...	29.45	45	W	3	0	29.46	+ .06	42	41	- 2	W	6	0	5	47	41	0.89
		Parsonstown ...	29.57	40	E	0	0	29.60	+ .13	34	33	+ 2	E	0	0	*	45	31	0.02
		Valencia ...	29.68	47	NW	4	0	29.61	+ .04	39	38	- 8	NE	1	0	4	50	35	0.06
		Roche's Point ...	29.63	43	NW	4	0	29.67	+ .14	38	36	- 5	NW	5	0	3	48	35	0.06
		Pembroke (St. Ann's Hd.) ...	29.52	46	N	2	0	29.63	+ .17	46	44	+ 1	WNW	4	0	4	49	42	0.05
		Seilly ...	29.55	48	NW	5	0	29.66	+ .13	47	45	- 1	NW	3	0	5	49	44	0.14
		Prawle Point ...	29.83	40	WNW	3	0	29.69	+ .19	40	38	+ 1	NW	3	0	2	50	35	0.10
		Jersey (St. Aubin's) ...	29.58	46	SW	3	0	29.69	+ .16	41	39	- 6	N	3	0	3	49	39	0.48
		Hurst Castle ...	29.86	42	NW	2	0	29.69	+ .22	36	36	- 7	N	3	0	2	49	32	0.13
		Dungeness ...	29.52	46	WNW	2	0	29.65	+ .24	47	44	+ 6	SSW	4	0	3	53	35	0.03
		London ...	29.55	38	SW	1	0	29.68	+ .29	34	33	- 6	E	0	0	*	49	33	-
		Oxford ...	29.57	39	W	1	0	29.69	+ .27	34	33	- 2	SE	1	0	*	49	31	0.06
		Cambridge ...	29.53	38	SW	1	0	29.71	+ .33	33	32	- 8	SW	1	0	*	50	29	-
		Yarmouth ...	29.50	44	W	1	0	29.68	+ .33	37	36	- 7	E	0	0	2	46	33	0.01
		Cuxhaven ...	29.65	42	SE	3	0	29.75	+ .09	42	42	+ 4	SSE	2	0	*	45	37	-
		Berlin ...	29.74	45	SE	2	0	29.80	+ .10	44	43	+ 1	SE	2	0	*	45	43	-
		Wiesbaden ...	29.74	45	SE	2	0	29.74	+ .10	44	43	+ 8	E	0	0	*	46	37	0.04
		Munich ...	29.69	35	SE	1	0	29.74	+ .08	31	31	- 6	SE	2	0	*	45	30	-
		The Helder ...	29.58	45	SSE	1	0	29.72	+ .24	43	43	- 1	SSE	1	0	1	46	43	0.08
		Brussels (8 a.m.) ...	29.56	46	SW	2	0	29.76	+ .29	36	35	- 7	ESE	1	0	*	45	34	0.04
		Cape Gris Nez ...	29.64	44	SSW	1	0	29.71	+ .35	33	33	- 13	SSW	1	0	*	48	36	-
		Paris ...	29.62	44	NW	5	7	29.76	+ .35	33	33	- 13	SSW	1	0	*	52	32	-
		Brest ...	29.62	44	NW	5	7	29.76	+ .35	33	33	- 13	SSW	1	0	*	52	32	-
		Lorient ...	29.66	46	WNW	3	0	29.71	+ .11	45	42	+ 1	NW	3	0	5	54	43	0.24
		Rochefort ...	29.60	57	SW	3	0	29.74	+ .05	44	41	- 6	NW	2	0	?	57	39	1.06
		Belfort ...	29.60	48	W	1	0	29.74	+ .05	44	41	- 6	NW	2	0	?	57	39	1.06
		Lyons ...	29.70	42	SW	1	0	29.79	+ .13	39	38	- 4	N	1	0	*	49	37	0.28
		Nice ...	29.67	46	E	0	0	29.63	- .04	41	40	- 1	NW	3	0	2	55	39	0.75
		Perpignan ...	29.75	48	N	5	0	29.86	+ .13	46	41	- 2	N	1	0	*	54	41	1.73
		Biarritz ...	29.85	51	SW	5	0	29.82	+ .06	50	47	- 3	W	6	0	7	54	41	1.73
		Corunna ...	30.19	53	W	3	0	30.22	+ .09	52	51	- 4	WNW	3	0	7	61	52	0.08
		Lisbon ...	30.19	53	W	3	0	30.22	+ .09	52	51	- 4	WNW	3	0	7	61	52	0.08

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

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

WEATHER CHARTS

for 8 a.m. on

Monday, 10th November,

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:

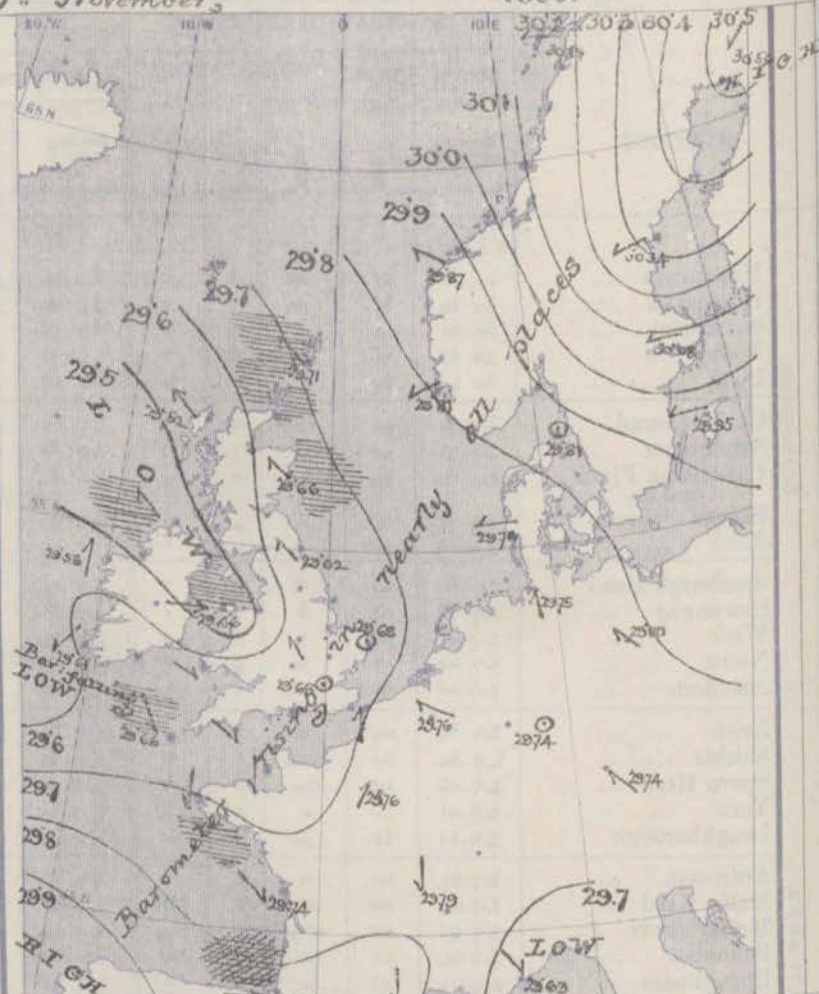
☼ = Rough. ☼ = High.

MEAN HEIGHT OF THE BAROMETER

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

During the 15 Years: 1871—1885.

STATIONS.	MEAN READINGS.
Sumburgh Head	29.687
Stornoway	29.707
Wick	29.720
Nairn	29.743
Aberdeen	29.756
Leith	29.793
Shields	29.815
York	29.844
Loughborough	29.870
Ardrossan	29.705
Donaghadee	29.811
Holyhead	29.835
Liverpool	29.852
Parsonstown	29.848
Valencia	29.864
Roche's Point	29.864
Pembroke	29.862
Sally	29.898
Jersey	29.923
Hurst Castle	29.895
Dover	29.893
LONDON	29.897
Oxford	29.893
Cambridge	29.885
Yarmouth	29.863



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.

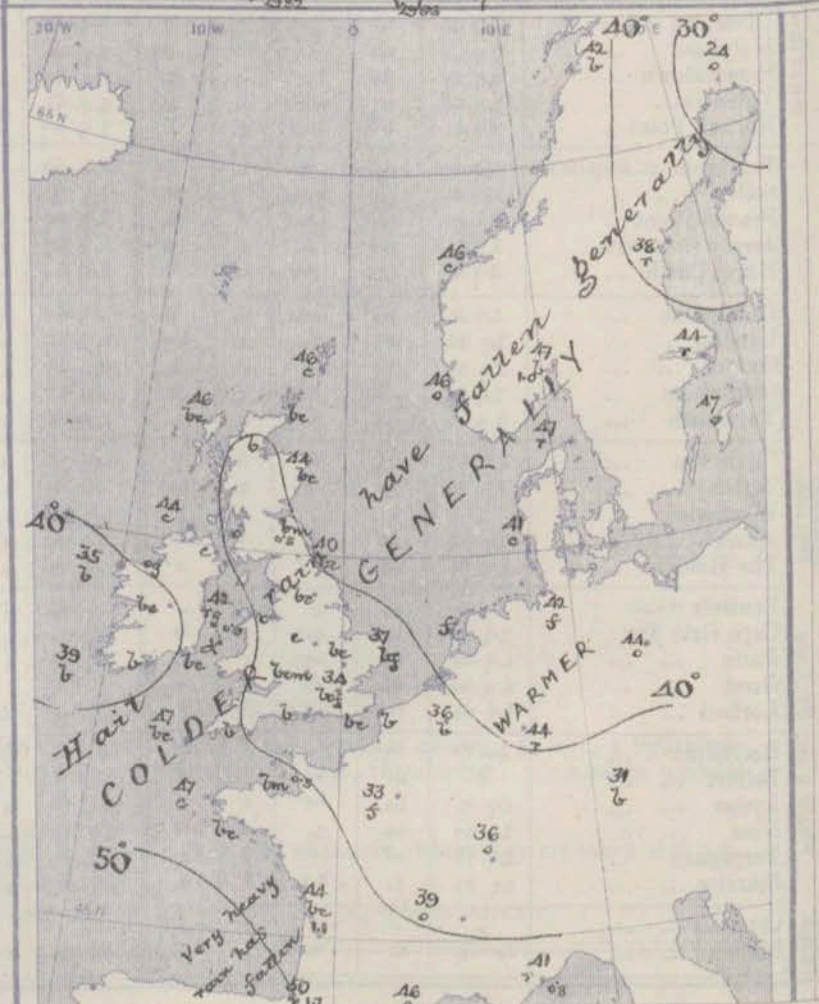
RAINFALL—A dotted line separates the districts in which rain has fallen from those where there has been none. Falls of 0.5 in. or more are quoted in figures.

MEANS OF TEMPERATURE IN SHADE, AND RAINFALL.

(For the month of November.)

STATIONS.	TEMPERATURE.				RAINFALL (Inches.)
	Daily Max.	Daily Min.	at 8 a.m.	at 8 a.m.	
			Dry.	Wet.	
Sumburgh Head	45.3	37.4	41.5	39.8	4.24
Stornoway	45.7	36.7	41.0	39.9	4.60
Wick	45.7	35.7	40.9	39.3	2.97
Nairn	44.7	35.5	39.1	37.6	2.32
Aberdeen	46.1	36.3	40.3	38.5	3.16
Leith	48.2	36.7	41.2	39.6	2.11
Shields	47.1	38.1	41.8	40.2	2.68
York	47.7	36.1	40.3	39.0	2.21
Loughborough	48.0	36.4	40.2	38.9	2.30
Ardrossan	47.7	38.9	42.6	40.8	3.92
Donaghadee	48.2	39.2	42.9	41.7	3.13
Holyhead	49.7	42.8	45.5	43.8	3.71
Liverpool	47.7	39.5	42.1	40.4	2.87
Parsonstown	49.1	36.9	41.7	40.0	2.84
Valencia	52.4	42.7	47.2	45.2	5.50
Roche's Point	51.1	41.8	45.9	44.5	4.56
Pembroke	50.2	43.7	46.7	44.7	3.96
Sally	52.5	46.7	50.0	48.0	3.76
Jersey	51.9	44.2	47.5	45.6	4.24
Hurst Castle	50.5	40.3	44.6	43.6	2.98
Dover	49.1	40.7	44.0	42.4	3.56
LONDON	49.6	37.0	42.0	40.5	2.14
Oxford	48.6	37.6	41.0	39.7	2.90
Cambridge	48.8	35.7	40.3	39.5	2.02
Yarmouth	47.5	39.1	42.9	41.8	3.15

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	<p>Highest, (1) 30.0 in. to nearly 30.0 in. over England and the northern part of Sweden; (2) 29.9 in. to 30.2 in. over the Spanish Peninsula.</p> <p>Lowest, 29.5 in. and less, over the Irish Sea and north of Ireland, and 28.7 in. and less, over the English Channel.</p> <p>Gradients moderate to slight, but very variable.</p> <p>Barometer unsettled, but rising in most places.</p>
TEMPERATURE	<p>Highest, 52° at Dublin, 50° at Biarritz, 47° at the mouth of the English Channel and at Nîmes, and 46° at Plymouth.</p> <p>Lowest, (1) 34° at Haparanda, 38° at Helsingfors; (2) 31° at Munich, 36° at Bielefeld; (3) 33° at Sals, 34° to 36° over the inland part of England, Ireland, Scotland.</p> <p>In London it had been down to 33° in the shade and 22° on the grass.</p>
WIND	<p>SE at all our northern and northeastern stations, E in Norway.</p> <p>NNW over the greater part of Ireland, Wales, and the southeast of England.</p> <p>Over the Bay of Biscay it is NW to W.</p>
WEATHER	<p>Clear at most stations, but very foggy in London and at Paris. Rain is falling, however, in Sweden and the south of Norway, and also at Helsingfors, and a considerable quantity has fallen during the preceding twenty-four hours at some western and northern ports, none over the southeast of England.</p>
SEA	<p>Rough in the north, rather so in the east, moderate to smooth elsewhere.</p>

PROBABLE CHANGES IN SYSTEM NOW PREVALENT

The condition of the weather over the British Islands and their neighbourhood continues to be of a very unstable character, and at present there is no indication of any permanent improvement.

FORECASTS

For the 24 hours ending at NOON on 11th Nov^r 1890.

DISTRICTS.	FORECASTS.	DISTRICTS.	FORECASTS.
0 SCOTLAND NORTH	SE ^{ly} winds; unsettled, changeable, rain at times.	6 SCOTLAND WEST	Same as Nos 0 to 2.
1 SCOTLAND EAST		7 ENGLAND N.W.	
2 ENGLAND N.E.		8 ENGLAND S.W.	
3 ENGLAND EAST	Very variable light breezes; foggy to fair, unsettled later.	9 IRELAND NORTH	NW ^{ly} winds, moderate; unsettled, some rain.
4 MIDLAND COUNTIES		10 IRELAND SOUTH	
5 ENGLAND SOUTH			
		WARNINGS	NONE ISSUED.

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

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

YESTERDAY'S 2 P.M. REPORTS.

	BAR:	THER:		WIND		WEA.	SEA		BAR:	THER:		WIND		WEA.	SEA
		D.	W.	D.	F.					D.	W.	D.	F.		
Skudesnaes ...	29.75	49	44	SE	6	c	4		Holyhead ...	29.44	46	43	W	3	c
Sumburgh Head ...									Valencia ...						
Stornoway ...	29.44	44	43	SE	0	o	2		Scilly ...						
Aberdeen ...									Jersey ...	29.58	46	43	W	4	c
Shields ...									Dungeness ...	29.50	50	46	W	3	bc
Ardrossan ...									London ...						
Malin Head ...	29.43	47	45	N	16	o	5		Yarmouth ...						
Mullaghmore ...									Rochefort ...	29.69	43	42	W	3	W
Belmullet ...	29.56	48	44	W	3	o	*								

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

Weather in morning foggy over Finland and in many parts of Germany, Austria and western Russia, fine and bright over the greater part of Spain and in Norway very unsettled elsewhere. Rain falling in many parts of the Baltic, the British Isles and the south and west of France; thunder at Rochefort. Rain falling subsequently in the Skager Rack, most parts of our Islands and in the west and south of France; lightning seen at Braur Point.

Temperature changing very fitfully; fallen 18° over central Ireland, risen 10° to 15° over the Baltic Provinces. Morning readings exceeding 50° on the extreme southwestern, southern and southeastern coasts of Europe only. Lowest 30° to 34° over the north of Russia and in Lapland, 32° at Parsonstown, and 36° at Stornoway, Cayrol and Wiesbaden. Not reaching 50° over our Islands as a whole, nor in Germany during the day.

Wind mainly E. and SE. over the northern parts of the Continent, the North Sea and east of Scotland, mainly NW. over Ireland, the Irish Sea, the Southwest of England and the western parts of France and Spain, very variable elsewhere. Strong NW gale reported at Biarritz, and strong ESE squalls at Aberdeen, the latter increasing to a gale at times later on.

Barometer highest 30.3 ins. to 29.9 ins. over Russia, Finland and the north of Sweden, and 30.1 ins. to 29.8 ins. over the Spanish Peninsula; below 29.7 ins. over Italy, Switzerland, France, the Netherlands and the British Islands, and below 29.5 ins. in a depression over Yorkshire, and 29.4 ins. in another one near Abbeville; rising generally during day, and the depressions noted above undergoing great modifications; a new one appearing temporarily at the mouth of the English Channel.

SUMMARY OF CHANGES IN THE WEATHER OVER THE BRITISH ISLANDS AND THEIR NEIGHBOURHOOD FROM THE 2ND TO 8TH NOV. 1830.

In the course of this week several depressions have reached our northwestern coasts from the Atlantic, and then travelled away to the northeastwards or northwards. Each of these has developed a secondary system, either over the North Sea or the United Kingdom, and in two cases these secondaries changed into independent systems which subsequently filled up over or near to Holland. The most serious disturbance was that which came over the United Kingdom on Thursday, and became a very deep depression, causing cyclonic gales on all our coasts, but especially over Scotland, the north of Ireland and the Irish Sea where force 11 was reached at several stations. At the close of the week, however, the disturbance had filled up, but a new one of no great depth had appeared in the northwest, and a deep local system was appearing over the southwest of England.

Weather has therefore been very unsettled and much rain fell in the west and north, snow on the Welsh and Scotch mountains.

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 11th November. 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. Reading at 32° F. and Sea Level.	Temp. Dry.	Wind.		Weather.	Barometer.		Shade Temp.			Wind.		Weather.	Sea. (0 to 9.)	Shade Temp.			
				Dir.	Force. (0 to 12.)		Reading at 32° F. and Sea Level.	Difference from 8 a.m. yesterday.	Dry.	Wet.	Difference from 8 a.m. yesterday.	Dir.	Force. (0 to 12.)			Max.	Min.	Amount of Rainfall.	
SCANDINAVIA.		Haparanda ...	30.52	29	N	2	0	30.50	-0.06	29	28	+5	2	0	0	•	?	10	0.04
		Hernösand ...	30.33	28	ENE	4	7	30.32	-0.02	40	39	+2	ENE	2	7	•	41	26	0.24
		Stockholm ...	30.14	44	E	4	7	30.14	+0.06	44	43	0	ENE	4	0	•	48	29	0.04
		Wisby ...	30.07	46	E	4	7	30.01	+0.06	45	43	-2	ENE	4	0	•	50	45	—
		Bodö ...	30.15	44	E	6	0	30.15	-0.04	38	35	-4	E	4	bc	2	45	26	—
		Christiansund	29.88	49	ENE	5	bc	29.88	+0.01	47	44	+1	ENE	2	c	3	?	45	—
		Skudesnaes ...	29.85	47	NE	4	7	29.82	+0.01	48	45	+2	ENE	4	0	3	50	46	0.01
		Christiania Fjord (Frierder)	29.95	47	NE	6	7	29.94	+0.05	46	46	-1	NE	3	7	1	48	46	0.51
		Skagen (The Scaw)	29.90	46	SE	3	7	29.89	+0.01	46	45	-1	SE	2	0	2	48	45	0.12
		Fanö ...	29.83	43	ENE	2	0	29.80	+0.04	43	43	+2	ENE	2	m	•	46	41	—
		Sumburgh Head	29.67	48	SE	4	c	29.58	-0.13	47	46	+1	SE	4	bc	6	48	42	0.19
		Stornoway ...	29.47	44	SE	5	bc	29.27	-0.25	45	42	-1	SE	7	bcu	6	48	40	0.01
		Wick ...	29.61	47	S	6	bc	29.46	-0.15	47	45	0	S	7	bcu	5	47	40	—
		Nairn ...	29.55	42	SE	3	c	29.35	-0.25	44	42	+10	ENE	4	bc	2	47	33	—
		Aberdeen ...	29.64	46	SE	5	cq	29.46	-0.20	46	42	+2	SE	7	cq	6	48	43	0.07
		Leith ...	29.54	42	SE	3	0	29.35	-0.27	42	40	+9	SE	4	ofc	•	46	31	—
		Shields ...	29.62	43	SE	4	bc	29.43	-0.19	43	40	+3	SE	4	ofc	4	46	37	—
		Spurn Head ...	29.67	45	SE	3	bc	29.51	-0.15	44	42	+2	ENE	7	0	5	47	44	—
		York ...	29.66	41	ENE	1	bc	29.46	-0.18	42	40	+6	E	7	7	•	46	35	0.05
		Loughborough	29.67	37	SE	1	bc	29.42	-0.23	42	41	+1	SE	3	0	•	51	23	0.08
		Ardrossan ...	29.48	43	S	5	7	29.16	-0.39	43	42	+7	E	5	7	4	35	35	0.12
		Malin Head ...	29.35	40	S	3	0.9	29.04	-0.44	42	41	-2	S	2	od	1	44	38	0.17
		Mullaghmore ...	29.33	42	S	5	c	29.09	-0.45	47	44	+2	WNW	7	og	6	47	40	0.22
		Belmullet ...	29.24	42	SE	4	0	29.09	-0.40	42	41	-1	SW	7	7	4	44	40	0.24
		Donaghadee ...	29.46	42	SW	2	bc	29.09	-0.40	42	41	-1	SW	7	7	4	44	40	0.24
		Liverpool (Bidston)	29.58	41	SE	3	bc	29.36	-0.15	41	40	+1	ENE	4	c	3	46	39	0.07
		Holyhead ...	29.49	46	S	4	cq	29.27	-0.19	45	43	+3	SW	6	cq	5	47	42	0.32
		Parsonstown ...	29.33	42	2	0	0	29.26	-0.34	41	39	+7	W	2	bc	•	47	33	0.74
		Valencia ...	29.15	47	SE	7	bc	29.37	-0.24	48	43	+9	W	4	cq	4	48	38	0.47
		Roche's Point...	29.31	49	S	6	bc	29.38	-0.29	43	42	+5	WNW	4	c	4	52	35	0.55
		Pembroke (St. Ann's Hd.)	29.44	47	S	6	c	29.38	-0.25	48	47	+2	W	5	cq	6	50	44	0.45
		Scilly ...	29.42	47	ENE	6	ofc	29.48	-0.18	48	47	+1	WNW	5	c	4	50	45	0.25
		Prawle Point ...	29.57	48	ENE	4	bc	29.47	-0.22	44	43	+4	WNW	4	c	2	52	40	0.06
		Jersey (St. Aubin's)	29.68	48	S	4	c	29.50	-0.15	52	47	+11	W	4	cq	4	53	39	0.51
		Hurst Castle ...	29.67	45	S	2	bc	29.41	-0.28	47	40	+11	WNW	7	c	5	51	44	0.26
		Dungeness ...	29.69	45	ENE	4	c	29.55	-0.10	45	44	-2	SW	7	ou	5	50	44	—
		London ...	29.69	42	SE	2	bc	29.47	-0.21	42	41	+1	SE	4	og	•	48	34	0.01
		Oxford ...	29.64	38	SE	2	bc	29.38	-0.31	43	42	+9	ENE	2	7	•	48	33	0.10
		Cambridge ...	29.69	41	S	1	bc	29.49	-0.22	43	41	+10	SE	3	0	•	49	32	—
		Yarmouth ...	29.72	46	SW	3	bc	29.59	-0.09	44	42	+7	S	6	cq	4	47	35	—
		Cuxhaven ...	29.81	41	ENE	2	f	29.83	+0.04	40	40	-2	ENE	2	f	•	45	40	—
		Berlin ...	29.87	46	ENE	2	c	29.81	+0.01	46	46	+2	SE	2	f	•	48	45	—
		Wiesbaden ...	29.87	46	ENE	2	c	29.78	+0.04	40	39	-4	2	0	0	•	45	37	0.04
		Munich ...	29.74	35	NE	2	0	29.78	+0.04	36	36	+5	SW	2	0	•	37	32	0.04
		The Helder ...	29.78	44	ENE	1	f	29.71	-0.01	38	38	-5	SE	1	bc	1	48	37	—
		Brussels (9 a.m.)	29.76	41	S	2	c	29.72	-0.04	34	34	-2	ENE	1	0	•	50	32	—
		Cape Gris Nez	29.76	38	SW	1	c	29.57	-0.14	38	37	+5	SE	3	0	4	48	36	—
		Paris ...	29.84	38	SW	3	7	29.67	-0.09	50	47	+3	W	3	0	5	61	41	0.58
		Brest ...	29.62	53	SW	3	7	29.54	-0.09	50	47	+3	W	3	0	5	61	41	0.58
		Lorient ...	29.65	47	S	3	7	29.57	-0.12	51	48	+6	WNW	2	c	5	?	43	0.39
		Rochefort ...	29.87	49	SW	3	0	29.64	-0.10	53	52	+9	WNW	3	0	2	54	39	0.32
		Belfort ...	29.76	43	W	1	0	29.74	-0.01	38	32	+2	W	1	0	•	50	32	—
		Lyons ...	29.84	41	N	1	c	29.80	+0.01	36	36	-3	ENE	1	0	•	48	35	—
		Nice ...	29.62	43	E	3	bc	29.79	+0.16	40	37	-1	NE	5	bc	2	48	37	0.20
		Perpignan ...	29.86	48	WN	3	bc	29.82	-0.04	45	43	-1	W	1	7	•	54	42	0.04
		Biarritz ...	29.89	49	S	3	7	29.63	-0.19	57	54	+7	W	7	7	7	?	?	1.38
		Corunna ...	30.21	57	SW	4	c	30.13	-0.09	60	59	+1	SW	5	0	6	63	?	—
		Lisbon ...	30.21	57	SW	4	c	30.13	-0.09	60	59	+1	SW	5	0	6	63	?	—
PENIN- SULA.																			

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 11th November,* 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:

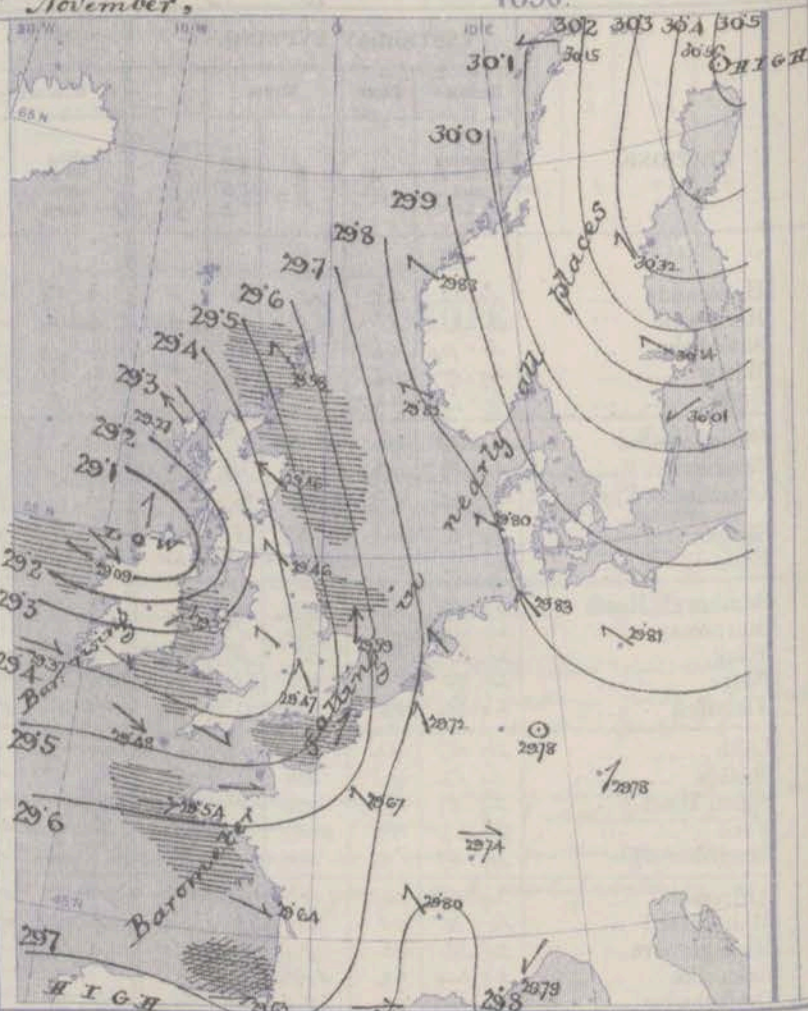
▨ = Rough. ▩ = High.

MEAN HEIGHT OF THE BAROMETER

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

During the 15 Years: 1871—1885.

STATIONS.	MEAN READINGS.
Sumburgh Head	29.627
Stornoway	29.707
Wick	29.726
Nairn	29.743
Aberdeen	29.756
Leith	29.793
Shields	29.815
York	29.844
Loughborough	29.876
Ardrossan	29.795
Donaghadee	29.811
Holyhead	29.835
Liverpool	29.852
Parsonstown	29.848
Valencia	29.864
Roche's Point	29.864
Pembroke	29.862
Scilly	29.898
Jersey	29.923
Hurst Castle	29.898
Dover	29.893
LONDON	29.897
Oxford	29.833
Cambridge	29.885
Yarmouth	29.883



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.

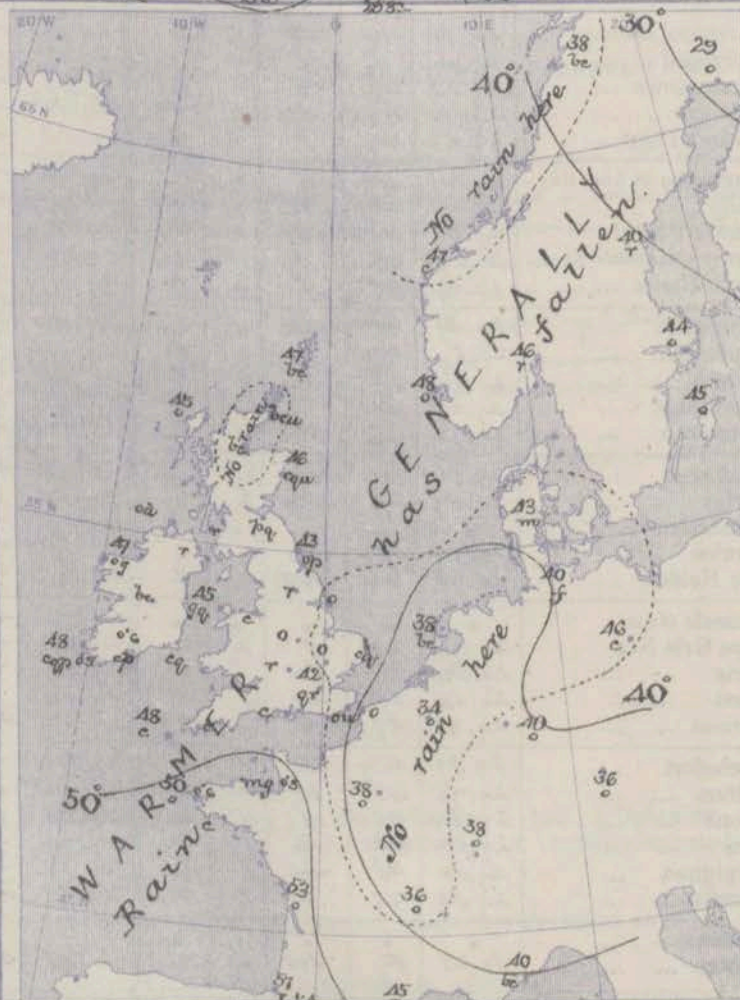
RAINFALL—A dotted line separates the districts in which rain has fallen from those where there has been none. Falls of 0.5 in. or more are quoted in figures.

MEANS OF TEMPERATURE IN SHADE, AND RAINFALL.

(For the month of November.)

STATIONS.	TEMPERATURE.				RAINFALL. (Inches.)
	Daily Max.	Daily Min.	Dry. at 8 a.m.	Wet.	
Sumburgh Head	45.3	37.4	41.5	39.8	4.24
Stornoway	45.7	36.7	41.0	39.9	4.60
Wick	45.7	35.7	40.9	39.3	2.97
Nairn	44.7	35.5	39.1	37.5	2.32
Aberdeen	46.1	36.3	40.3	38.5	3.16
Leith	48.2	36.7	41.2	39.6	2.11
Shields	47.1	38.1	41.8	40.2	2.63
York	47.7	36.1	40.3	39.0	2.21
Loughborough	48.0	36.4	40.2	38.9	2.30
Ardrossan	47.7	38.0	42.6	40.8	3.92
Donaghadee	48.2	39.2	42.0	41.7	3.13
Holyhead	49.7	42.8	45.5	43.8	3.71
Liverpool	47.7	39.5	42.1	40.4	2.87
Parsonstown	49.1	36.9	41.7	40.0	2.84
Valencia	52.4	42.7	47.2	45.2	5.50
Roche's Point	51.1	41.8	45.0	44.3	4.56
Pembroke	50.2	43.7	46.7	44.7	3.98
Scilly	52.5	46.7	50.0	48.0	3.75
Jersey	51.9	44.2	47.5	45.6	4.24
Hurst Castle	50.5	40.3	44.6	43.6	2.98
Dover	49.1	40.7	44.0	42.4	3.58
LONDON	49.6	37.9	42.0	40.5	2.14
Oxford	48.6	37.6	41.0	39.7	2.80
Cambridge	48.8	35.7	40.3	39.5	2.02
Yarmouth	47.5	39.1	42.0	41.8	3.15

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



GENERAL SITUATION AT 8 A.M.

PRESSURE	<p>Highest, 30.3 in: to 30.5 in: over the Gulf of Bothnia; 30.1 in: and upwards, in the south of Portugal.</p> <p>Lowest, 29.1 in: and less, in a depression lying over the north of Ireland.</p> <p>Gradient rather steep over the north and northwest of our Islands, but moderate or slight elsewhere.</p> <p>Barometer rising again on our southwest coasts, but falling in nearly all other parts of Western Europe.</p>
TEMPERATURE	<p>Highest, 60° at Dublin, 57° at Kiarritz, 53° at Stockholm, 52° at Jersey, 51° at Lorient and 50° at Brest.</p> <p>Lowest, 29° at Haparanda, 34° at Brussels, 36° at Lyons and Munich, and 38° at Rode, the Helder, Paris and Belfast.</p> <p>A considerable rise has taken place over our Islands.</p>
WIND	<p>Abundant to strong from the Wnd or SWnd in the west and south of our Islands and the coast of France.</p> <p>Strong to a gale from the SEnd in the north and east of Great Britain; light from the same quarter in Scandinavia, Denmark, Germany and the Netherlands.</p> <p>A moderate to fresh gale from the Snd was experienced yesterday in the west of our Islands.</p>
WEATHER	<p>Cloudy and showery in nearly all parts of Western Europe, but fine at present in the north of Scotland.</p> <p>Heavy rain has fallen in the western part of our Islands and France, the largest amounts being 1.4 in: at Kiarritz, 0.6 in: at Stockholm and Brest, and 0.5 in: at Haparanda, Helsingfors and Jersey.</p>
SEA	<p>Rough on nearly all parts of our coasts, and high at Kiarritz.</p>

PROBABLE CHANGES IN SYSTEM NOW PREVALENT

The depression over our Islands are likely to travel in a northerly direction, and some improvement in the weather is therefore probable over the southern parts of the Kingdom. The general conditions are, however, still very unsettled.

FORECASTS

For the 24 hours ending at NOON on 12th Nov^r 1890.

DISTRICTS.

FORECASTS.

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

- SE^{ly} to S^{ly} strong winds and gales; squally, rain at times.
- SE^{ly} and S^{ly} winds, strong, to SW^{ly} winds, light; squally and rainy to fair.
- SW^{ly} and W^{ly} winds, fresh or strong; gusty, showery.

DISTRICTS.

FORECASTS.


- 1 SCOTLAND WEST
- 1 ENGLAND N.W.
- 1 ENGLAND S.W.
- 1 IRELAND NORTH
- 1 IRELAND SOUTH


Same as Nos 0 and 1.

SW^{ly} and W^{ly} winds, strong; squally, showery.

WARNINGS

The SOUTH CONE was hoisted yesterday on all coasts excepting 2, 3, and part of 5 and the signals are still flying.

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 ...	29.84	49	46	2	o	3		Holyhead ...	29.53	45	42	SW	4	bc	5
Sumburgh Head	29.70	47	46	SE	4	c	6	Valencia ...	29.36	46	45	SE	7	trm	6
Stornoway ...	29.57	48	43	SE	5	f	4	Scilly ...	29.58	48	47	S	5	ou	5
Aberdeen ...	29.56	46	42	SE	4	bcg	5	Jersey ...	29.72	52	47	SE	3	bc	3
Shields ...	29.61	44	40	SE	4	c	4	Dungeness ...	29.70	49	47	SE	4	bc	3
Ardrossan ...	29.46	47	46	E	4	o	2	London ...	29.70	46	44	SE	1	c	*
Malin Head	29.41	44	41	SE	3	bc	4	Yarmouth ...	29.72	47	44	SE	2	bc	2
Mullaghmore	29.41	46	42	SE	2	c	3	Rochefort ...	29.79	53	47	NW	3	bc	2
Belmullet ...	29.40	46	42	SE	3	bc	*								

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

Weather in morning fine over SE^{anc} Europe, in some parts of Spain, and in many parts of the British Islands; dull and unsettled elsewhere, with rain over many parts of the Continent, fog in Austria and southern Russia. General condition very unstable, rain again setting in over the British Isles and west of France later.

Temperature slightly above 60° at Constantinople, Malta and Palermo, and above 50° over the southern parts of Russia and the Mediterranean, and on the Spanish and Portuguese coasts. Lowest of all 24° to 32° over Finland and northern Russia, 31° to 39° over central France and south Germany, 34° to 36° over the inland parts of Ireland and England. Rising to 50° and more over England and the south of Ireland later, as well as in the west of France, but not exceeding 37° at Munich. Changing fitfully over our Islands towards night.

Wind E⁷ to SE⁷ over northern Europe, SE⁷ over the North Sea, Scotland and the north of Ireland, the Midland and northeastern parts of England; NW⁷ over the southern half of Ireland, Wales, the west of England, Brittany and the west of France. Light variable air prevalent over the greater part of Russia and central Europe, W⁷ winds over the southern shores of the Mediterranean. Strong S⁷ winds setting in over the United Kingdom later.

Barometer highest 30.6 ins. to 30.0 ins. over northern Europe, and 30.1 to 29.9 ins. over the Spanish Peninsula and Algeria; below 29.8 ins. over Austria, western Germany and the greater part of France, and as low as 29.5 ins. on our northwest coasts, and 29.6 ins. over the Gulf of Genoa and off the southwest of Ireland. New large depression approaching our Islands from the westward later.

REMARKS ON THE WEATHER FOR 24 HOURS ENDING 8 A.M. ON NOV. 9TH 1890.

Weather much finer over the North Sea and Great Britain than of late, but in a very unstable changeable condition as a whole all over Europe - Clear and bright in some localities, foggy in others, and rainy at several of the Russian, German, Austrian and Italian stations. Rain later in all parts of the British Islands, as well as in parts of France and Germany, and several parts of Italy - heavy in some districts, slight in others.

Temperature in morning slightly above 60° at Constantinople, Malta and some parts of Algeria, and above 50° over southeastern and southwestern Europe generally, and the western parts of France and the British Islands. Much lower inland - the lowest being (1) 29° at Uleaborg, 32° at Haparanda, 36° at Archangel; (2) 36° at Prague, 37° at Breslau and Belfort, 38° at Munich; (3) 32° to 38° over the inland parts of England. Exceeding 55° in several parts of our Islands and France later.

Wind very variable both in force and direction; mainly SW⁷ in Ireland and Scotland, SE⁷ on the eastern shores of the North Sea, W⁷ in the West of France, NW⁷ over the Iberian Peninsula. Gales of past two days all subsided. Light variable air prevalent over eastern and central Europe. Small cyclonic circulation of strong winds appearing over the English Channel later, and strong squally winds from SE. in Scotland.

Barometer highest about 30.2 ins. to 29.9 ins. over Russia, and also over the Iberian Peninsula; lowest 29.2 ins. and less off the northwest of Scotland, and about 29.5 ins. in two small depressions - one near Holland the other near Rome. Depressions near Holland filling up later, but a new one appearing over the English Channel and north of England.

EXPLANATION OF COLUMNS GIVEN ON PAGE 1.

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

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

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

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

DAILY WEATHER REPORT.

for *Wednesday, 12th November, 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 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 ...	30.48	26	S	2	†	30.48	- 0.2	27	26	- 2	SE	2	0	*	30	23	0.04	
Hernösand ...	30.35	38	SE	2	†	30.37	+ 0.5	35	34	- 5	ESE	2	0	*	4.5	?	0.08	
Stockholm ...	30.16	40	E	4	†	30.18	+ 0.4	40	39	- 4	E	4	†	*	1.8	34	0.08	
Wisby ...	30.02	44	E	4	0	30.02	+ 0.1	42	41	- 3	E	4	0	*	4.8	41	0.04	
Bodö ...	30.18	42	E	4	6	30.19	+ 0.4	41	36	+ 3	E	2	6	1	?	36		
Christiansund	29.93	41	ESE	4	0	29.97	+ 0.9	46	43	- 1	ESE	3	bc	2	50	?		
Skudesnaes ...	29.84	49	SE	6	0	29.91	+ 0.9	50	45	+ 2	ESE	6	0	3	50	48		
Christiania Fjord (Færdar)	29.97	45	NHE	5	0	30.05	+ 1.1	42	41	- 4	N	5	0	2	46	?	0.39	
Skagen (The Scaw)	29.91	46	SE	3	†	29.96	+ 0.7	45	45	- 1	SE	3	†	4	46	43	0.24	
Fanö ...	29.79	45	ESE	4	0	29.86	+ 0.6	44	44	+ 1	E	2	c	*	46	43	0.04	
Sumburgh Head	29.60	46	SE	5	c	29.71	+ 1.3	48	46	+ 1	SE	4	0	6	49	45	0.03	
Stornoway ...	29.26	47	NE	4	c	29.50	+ 2.3	46	45	+ 1	SE	6	b	6	49	44		
Wick ...	29.45	47	S	2	0	29.60	+ 1.4	47	46	0	SE	8	ou	5	48	45	0.05	
Nairn ...	29.38	45	ESE	2	c	29.59	+ 2.4	29	28	- 15	SE	0	b	1	47	28		
Aberdeen ...	29.49	44	SSE	6	oqpu	29.65	+ 1.9	44	43	- 2	SSE	2	cm	6	48	43	0.38	
Leith ...	29.42	42	SE	1	0	29.60	+ 2.5	37	36	- 5	SE	1	bcm	*	44	30		
Shields ...	29.48	42	SSE	3	m	29.64	+ 2.1	39	38	- 4	SSE	3	f	3	44	34	0.03	
Spurn Head ...	29.51	42	W	2	b	29.75	+ 2.4	40	39	- 4	S	3	cm	3	44	35	0.18	
York ...	29.51	42	ESE	1	0	29.73	+ 2.7	37	37	- 6	ESE	1	c	*	43	32	0.14	
Loughborough	29.56	42	NEW	1	b	29.78	+ 3.6	38	37	- 4	ESE	1	bcm	*	50	35	0.14	
BRITISH ISLANDS.																		
Ardrossan ...	29.38	47	ESE	4	b	29.59	+ 1.3	39	38	- 4	ESE	2	0	1	48	37	0.25	
Malin Head ...	29.23	43	S	3	bc	29.50	+ 1.6	43	41	+ 1	S	2	0	4	46	39	0.13	
Mullaghmore ...	29.18	44	SSW	4	c	29.52	+ 1.3	46	44	- 1	SSW	5	cm	4	49	42	0.22	
Belmullet ...	29.28	49	WNW	8	c	29.39	+ 0.9	46	46	0	SSE	4	os	*	49	43	0.32	
Donaghadee ...	29.37	43	SW	2	b	29.61	+ 5.2	39	39	- 3	WSW	3	b	2	48	39	0.27	
Liverpool (Bidston)	29.51	43	SSW	2	b	29.71	+ 3.5	44	42	+ 3	SW	3	b	3	46	39	0.14	
Holyhead ...	29.45	47	SW	4	bc	29.69	+ 4.2	47	45	+ 2	WSW	3	b	3	49	43	0.35	
Parsonstown ...	29.36	45	SW	2	†	29.61	+ 3.5	42	41	+ 1	SE	1	†	*	47	38	0.35	
Valencia ...	29.54	48	WNW	5	bg	29.53	+ 1.6	53	53	+ 5	S	7	rgm	6	53	39	0.24	
Roche's Point...	29.52	46	W	3	b	29.67	+ 2.9	51	51	+ 8	SW	3	p	4	51	33	0.20	
Pembroke (St. Ann's Hd.)	29.53	49	WSW	5	c	29.74	+ 3.6	51	50	+ 3	SW	4	bc	5	51	47	0.03	
Scilly ...	29.61	48	SW	3	bq	29.80	+ 3.2	51	51	+ 3	SW	4	bc	4	52	46	0.02	
Prawle Point ...	29.66	43	NW	3	b	29.86	+ 3.9	49	46	+ 5	W	2	bc	2	51	42	0.02	
Jersey (St. Aubin's)	29.67	50	WNW	3	bcp	29.91	+ 4.1	47	45	- 5	W	2	bcpm	2	54	46	0.08	
Hurst Castle ...	29.63	43	WNW	3	b	29.86	+ 4.5	46	45	- 1	WNW	2	b	2	52	41		
Dungeness ...	29.59	47	WSW	4	c	29.83	+ 2.8	39	33	- 6	WNW	2	bc	2	50	34	0.10	
London ...	29.60	43	WSW	2	b	29.84	+ 3.7	34	33	- 8	WSW	1	b	*	52	31	0.01	
Oxford ...	29.64	40	WSW	2	b	29.84	+ 4.6	34	33	- 9	S	1	b†	*	51	33	0.11	
Cambridge ...	29.60	40	SW	1	b	29.83	+ 3.4	36	36	- 7	S	1	bc	*	48	30	0.02	
Yarmouth ...	29.56	45	SW	3	c	29.83	+ 2.4	40	39	- 4	SSW	2	bcm	3	45	36	0.06	
GERMANY & HOLLAND.																		
Cuxhaven ...	29.75	44	SE	2	b	29.84	+ 0.1	44	43	+ 4	SE	1	†	*	47	?		
Berlin ...	29.81	45	SE	0	0	29.82	+ 0.1	45	44	- 1	E	3	†	*	48	43		
Wiesbaden ...	*	*	*	*	*	29.85	+ 0.7	39	38	- 1	SE	1	0	*	43	36		
Munich ...	29.81	36	SW	2	c	29.86	+ 0.8	33	33	- 3	SE	1	†	*	39	30	0.04	
The Helder ...	29.71	40	S	1	†	29.86	+ 1.5	33	33	- 5	SSE	1	†	1	43	?		
FRANCE AND BELGIUM.																		
Brussels (9 a.m.)	*	*	*	*	*	29.89	+ 1.7	37	37	+ 3	ESE	1	0	*	41	34	0.08	
Cape Gris Nez	29.62	39	S	4	0	29.86	+ 2.9	41	41	+ 3	W	2	b	2	45	37		
Paris ...	29.69	41	ESE	1	bc	29.91	+ 2.4	33	33	- 5	SW	1	bc	*	42	32	0.04	
Brest ...	*	*	W	3	bc	?	?	51	48	+ 1	WSW	3	c	5	63	41		
Lorient ...	29.75	49	W	4	c	29.97	+ 3.8	50	48	- 1	W	2	c	5	54	46	0.08	
ROCHEFORT.																		
Rochefort ...	29.79	51	WNW	3	bc	29.97	+ 3.3	45	44	- 8	W	0	bc	*	55	39	0.12	
Belfort ...	?	?	W	1		?	?	38	32	0	W	1	†	*	7	33	0.16	
LYONS.																		
Lyons ...	29.80	45	W	2	0	29.97	- 0.2	43	40	+ 3	E	2	bc	1	50	?		
Nice ...	29.84	46	E	1	†	29.95	+ 1.3	49	45	+ 4	ESE	2	0	*	51	45	0.16	
Perpignan ...	29.87	54	W	5	†	30.01	+ 3.8	56	50	- 1	NW	5	0	6	59	48	1.42	
BIARRITZ.																		
Corunna ...	*	*	*	*	*	30.12	+ 3.8	54	53	- 3	SW	2	b	6	61	50	0.71	
Lisbon ...	30.15	38	W	3	b	30.21	+ 0.8	56	54	- 4	WNW	1	bc	6	64	54	0.08	

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

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

1890

EXPLANATION OF MAP

Changes since previous morning are stated in words.

*—→ = forces above 10; —→ = forces 8 to 10;
 —→ = forces 5 to 7; —→ = forces 1 to 4.
 (0) = dead calm.

SEA DISTURBANCE—Where considerable, is shown thus:

 = Rough = High

at 8.0 a.m., for the month of November.
During the 15 Years, 1871—1885.

WEATHER is given 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 November.)

A hand-drawn map of Europe, including parts of North Africa and Western Asia, overlaid with a grid of latitude and longitude lines. The map is annotated with various weather-related data points and handwritten notes.

Latitude and Longitude Markings:

- Latitude: 30°, 40°, 50° (marked on both the left and right sides).
- Longitude: 20°W, 10°W, 10°E (marked along the top).

Handwritten Annotations:

- WARMER**: Written vertically on the left side of the map.
- COLD**: Written vertically on the left side, below "WARMER".
- RAIN**: Written vertically in the lower-left quadrant.
- AS GENERAL**: Written diagonally across the center of the map.
- No rain here**: Two instances, one in the north-central region and one in the south-central region.
- No rain**: Two instances, one in the northeast and one in the southeast.

Data Points and Symbols:

- Isobars (dashed lines) are drawn, with values such as 30, 35, 40, 45, and 50.
- Isotachs (dashed lines) are drawn, with values such as 30, 35, 40, 45, and 50.
- Various symbols and numbers are scattered across the map, including:
 - 46, 47, 48, 49, 50, 51, 52, 53, 54, 55, 56, 57, 58, 59, 60, 61, 62, 63, 64, 65, 66, 67, 68, 69, 70, 71, 72, 73, 74, 75, 76, 77, 78, 79, 80, 81, 82, 83, 84, 85, 86, 87, 88, 89, 90, 91, 92, 93, 94, 95, 96, 97, 98, 99, 100.
 - Letters: a, b, c, d, e, f, g, h, i, j, k, l, m, n, o, p, q, r, s, t, u, v, w, x, y, z.
 - Other symbols: circles, squares, triangles, and irregular shapes.

GENERAL SITUATION AT 8 A.M.

PRESSURE

Highest, 30.4 ins. and upwards, over the Gulf of Bothnia; 30.2 ins. and upwards, in the south of Spain.
Lowest, 29.4 ins. and less, in a depression lying to the westward of Ireland.

Gradient rather steep in the extreme west, but slight elsewhere.

Barometer rising generally, but falling again in the west of Ireland.

TEMPERATURE

Highest, 56° at Biarritz and Lisbon, 53° at Valencia Island; and 51° at Rochester, Pembroke, Kelly and West.

Lowest, 27° at Haparanda, 25° at Naïm, 33° at the Helder, Paris, and Munich, and 34° at Oxford and in London.

Sharp frost occurred last night over Great Britain; in London the thermometer on the grass fell to 22°.

WIND

Strong from the S.W. in the west of Ireland, moderate from S.W. on other parts of our western coasts.

Light from S.E. in the eastern part of Great Britain; strong to a gale from the same quarter in the north of Scotland.

E. in Scandinavia, Denmark, and Germany, and also in the south of France; W. in the Channel and north of France.

Light over England, France, the east of Scotland, and the coast of Norway.

WEATHER

Dull elsewhere with rain in the west of Ireland and also in Germany and the south of Sweden.

Rain fell yesterday in nearly all parts of Western Europe, and lightning was seen at Braud and Dungeness at night.

SEA

Rough on our southwestern and northern coasts and also in the Bay of Biscay, but moderate or slight elsewhere.

PROBABLE CHANGES IN SYSTEM NOW PREVALENT

The depression which is approaching Ireland seems likely to cause further gales on many parts of our western and northern coast, and rainy, unsettled weather will probably extend to most districts.

FORECASTS

For the 24 hours ending at NOON on 13th Nov^r 1890.

DISTRICTS.

FORECASTS.

10	SCOTLAND NORTH	SE ² winds, increasing to a gale; fair to dull and some rain.
11	SCOTLAND EAST	
2	ENGLAND N.E.	S ² winds, freshening; fair to dull and rainy.
3	ENGLAND EAST	
4	MIDLAND COUNTIES	SW ² winds, freshening; fair to dull and rainy.
5	ENGLAND SOUTH	

DISTRICTS.

FORECASTS.

6	SCOTLAND WEST	S ² and SE ² winds, increasing in force; squally, rainy.
7	ENGLAND N.W.	
8	ENGLAND S.W.	S ² to SW ² winds, increasing in force; fair to dull and rainy.
9	IRELAND NORTH	S ² and SE ² winds, increasing to a gale; squally, rainy.
10	IRELAND SOUTH	

WARNINGS

The SOUTH CONE has been hoisted again this morning in district 10 and is still flying in districts 0, 1, 6, 7, and 9.

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

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

YESTERDAY'S 2 P.M. REPORTS.

	BAR:	THER:		WIND		WEA.	SEA		BAR:	THER:		WIND		WEA.	SEA
		D.	W.	D.	F.					D.	W.	D.	F.		
Skudesnaes ...	29.84	50	45	SE	6	c	3		Holyhead ...	29.40	49	48	WSEW	4	4
Sumburgh Head ...	29.58	47	46	SE	5	bc	6		Valencia ...	29.45	47	46	W	4	c q p
Stornoway ...	29.22	49	43	SE	7	c	6		Scilly ...	29.56	52	50	W	5	bc
Aberdeen ...	29.44	47	42	SE	8	o q p u	7		Jersey ...	29.61	53	48	W	3	o
Shields ...	29.42	43	40	SE	4	o	4		Dungeness ...	29.53	48	47	SW	6	c
Ardrossan ...	29.27	48	47	SSW	4	o	4		London ...	29.52	52	48	WSEW	3	bc
Mulin Head ...	29.13	46	44	S	5	c	3		Yarmouth ...	29.52	45	44	S	7	T q g
Mullaghmore ...	29.19	45	42	SSW	4	c g	4		Rochefort ...	29.73	53	51	WNW	3	4
Belmullet ...	29.09	45	44	WSEW	9	o	*								

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

Weather, dull and unsettled over Europe generally, with fog in the southwest of Russia, and the east and south of Germany. Equally, rainy and rough over the British Islands and their neighbourhood. Rainfall during day heavy at Kilmory, and considerable in the west and north of our Islands, but weather soon improving in south and east. Lightning seen at some southern stations in evening.

Temperature risen considerably over the British Islands, fallen over Russia and Central Europe. Morning readings exceeding 50° over southeastern Europe, the southern part of the Mediterranean and on the eastern coast of the Spanish Peninsula and France, and exceeding 40° over all parts of the British Isles. Lowest of all 27° to 29° over Iceland, northern and central Russia, 32° to 40° over Western Germany and Central France. Changing irregularly later, low over Great Britain at night.

Wind mainly W² over Ireland, Wales, the south of England, the Bay of Biscay and the Spanish Peninsula—moderate to a gale in force; strong from S. over our eastern counties, and strong to a gale from SE. in the north. E. breezes prevalent over Scandinavia and the Baltic, SE. air over Central and southern Russia, varying air and calms over Central Europe. No very decided change later.

Barometer highest, 30.6 in: and more to 30.0 in: over Northern and eastern Europe, and 30.2 in: to 29.9 in: over the Spanish Peninsula and Algeria. Below 29.8 over nearly the whole of Austria, South Germany, France, Holland and our Islands, and as low as 29.0 in: over the north of Ireland, 29.4 in: and less, over Wales and the west of England. Rising temporarily in the British Islands later, no great change elsewhere.

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, 13th November, 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.	Force. (0 to 12.)	Weather.	BAROMETER.		SHADE TEMP.			WIND.		Force. (0 to 12.)	Weather.	Sea. (0 to 3.)	SHADE TEMP.		
	Reading at 32° F. and Sea Level.	Dry.	Dirce.			Reading at 32° F. and Sea Level.	Difference from 8 a.m. yesterday.	Dry.	Wet.	Difference from 8 a.m. yesterday.	Dirce.	Force.				Max.	Min.	Amount of Rainfall.
SCANDINAVIA.	Haparanda ...	30.43	26	N.E.	2	0	30.32	- .16	33	33	+ .6	SE	2	6	*	?	23	0.85
	Hernösand ...	30.36	36	E.N.E.	2	T	30.27	- .10	40	39	+ .5	SE	2	0	*	4.1	?	0.12
	Stockholm ...	30.17	43	E	2	T	30.18	- .00	43	43	+ .3	ESE	2	0	*	4.5	3.7	0.08
	Wisby ...	30.12	45	ESE	4	T	30.08	+ .06	45	45	+ .3	ESE	4	T	*	4.8	2.1	0.20
	Bodö ...	30.19	36	E	2	b	30.10	- .09	34	30	- .7	E.N.E.	4	b	2	4.1	3.0	-
	Christiansund	29.95	47	ESE	2	b	29.88	- .07	47	43	+ .1	ESE	2	0	3	4.8	4.5	-
	Skudesnaes ...	29.95	48	SE	8	T	29.87	- .08	47	44	- .3	SE	8	0	5	5.0	4.6	0.04
	Christiania Fjord (Færder)	30.11	43	N.E.	4	0	30.04	- .07	44	43	+ .2	E.N.E.	3	0	1	?	4.1	0.12
	Skagen (The Seaw)	30.04	45	SE	3	0	30.02	+ .02	46	45	+ .1	SE	2	0	2	4.6	4.3	0.08
	Fanö ...	29.99	45	SE	0	0	30.02	+ .16	44	44	- .3	S	2	e	*	4.5	3.9	-
BRITISH ISLANDS.	Sumburgh Head	29.61	47	SE	6	0	29.50	- .21	47	46	- .1	S	2	0	6	4.9	4.6	0.14
	Stornoway ...	29.29	46	S	8	T	29.44	- .06	43	42	- .3	SW	3	0	3	4.8	4.1	0.10
	Wick ...	29.49	46	ESE	8	0	29.34	- .03	43	42	- .4	SW	3	b	3	4.8	4.0	0.10
	Nairn ...	29.43	42	SE	0	0	29.57	- .02	42	41	+ .13	W.S.W.	2	b	1	4.3	2.9	0.01
	Aberdeen ...	29.58	48	SE	6	0	29.67	+ .02	40	39	- .4	S	2	b	5	4.8	4.0	0.21
	Leith ...	29.58	45	S	1	T	29.69	+ .09	45	42	+ .8	SW	3	b	*	4.9	3.8	0.06
	Shields ...	29.63	46	SSE	4	m	29.76	+ .12	42	40	+ .3	SW	3	b	4	5.0	3.6	0.05
	Spurn Head ...	29.79	46	S	3	0	29.83	+ .08	43	43	+ .3	SE	0	c	2	4.9	3.9	0.06
	York ...	29.76	47	SE	1	0	29.84	+ .11	38	38	+ .1	SSE	1	f	*	5.0	3.6	0.12
	Loughborough	29.82	47	SE	2	0	29.86	+ .08	36	36	- .2	E	1	f	*	5.4	3.5	0.20
GERMANY & HOLLAND.	Ardrossan ...	29.42	49	SSE	5	T	29.69	+ .10	49	47	+ .10	SSW	5	b	4	5.0	3.9	0.24
	Malin Head ...	29.34	47	SSW	5	0	29.59	+ .09	45	42	+ .2	SW	5	b	3	4.8	4.1	0.25
	Mullaghmore ...	29.41	47	SW	4	b	29.65	+ .13	45	42	- .1	SSW	4	b	5	5.6	4.3	0.22
	Belmullet ...	29.39	49	W	8	b	29.66	+ .27	47	46	+ .1	SW	3	0	*	5.1	4.5	0.45
	Donaghadee ...	29.42	52	SW	6	T	29.74	+ .13	39	38	0	SW	3	m	1	5.2	3.8	0.27
	Liverpool (Bidston)	29.65	46	SE	5	0	29.82	+ .11	43	41	- .1	SSW	3	b	3	5.0	4.3	0.25
	Holyhead ...	29.55	49	S	6	T	29.79	+ .10	48	47	+ .1	W.S.W.	3	b	3	5.1	4.7	0.24
	Parsonstown ...	29.53	47	SW	2	0	29.77	+ .16	39	38	- .3	SE	0	T	*	5.3	3.8	0.17
	Valencia ...	29.61	50	W.S.W.	4	b	29.78	+ .25	48	46	- .5	W.S.W.	1	om	2	5.5	4.6	0.39
	Roche's Point...	29.61	49	W	3	b	29.80	+ .13	46	45	- .5	W	2	b	4	5.3	4.5	0.25
FRANCE AND BELGIUM.	Pembroke (St. Ann's Hd.)	29.62	53	S	6	T	29.85	+ .11	52	50	+ .1	W.S.W.	3	0	5	5.4	5.0	0.26
	Scilly ...	29.69	54	SW	5	C	29.88	+ .08	53	53	+ .2	SSW	3	T	6	5.5	5.0	0.25
	Prawle Point ...	29.82	51	SSW	6	T	29.90	+ .04	49	48	0	SW	1	ogm	1	5.3	4.6	0.19
	Jersey (St. Aubin's)	29.84	53	SSW	3	og	29.93	+ .02	51	50	+ .4	W	2	ogf	2	5.5	4.6	0.26
	Hurst Castle ...	29.89	51	SW	4	T	29.90	+ .04	48	48	+ .2	W.S.W.	4	m	3	5.5	4.4	0.27
	Dungeness ...	29.90	51	SW	4	0	29.88	+ .03	51	51	+ .12	SW	7	T	5	5.6	3.9	0.09
	London ...	29.88	48	SW	3	0	29.86	+ .02	50	49	+ .16	W	1	om	*	5.5	3.4	0.15
	Oxford ...	29.84	46	S	3	T	29.88	+ .04	42	42	+ .8	SE	0	m	*	5.5	3.4	0.24
	Cambridge ...	29.87	45	S	1	0	29.86	+ .03	47	47	+ .11	SW	1	0	*	5.4	3.4	0.14
	Yarmouth ...	29.88	45	SW	2	C	29.87	+ .04	48	47	+ .8	SW	3	0	3	4.8	3.8	0.08
PENINSULA.	Cuxhaven ...	29.97	39	W	1	m	30.06	+ .22	34	33	- .10	S	2	m	*	4.6	3.3	-
	Berlin ...	29.96	45	SW	3	0	30.13	+ .31	44	43	- .1	W	4	T	*	4.6	4.3	0.16
	Wiesbaden ...	*	*	*	*	*	30.20	+ .35	38	37	- .1	SE	0	T	*	4.5	3.6	-
	Munich ...	30.06	38	W	3	T	30.24	+ .38	36	36	+ .3	SE	0	T	*	4.4	?	0.16
	The Helder ...	29.99	37	ESE	1	f	29.98	+ .12	39	39	+ .6	S	2	f	2	4.3	?	-
	Brussels (9 a.m.)	*	*	*	*	*	30.06	+ .17	41	40	+ .4	SSE	4	0	*	4.6	3.6	-
	Cape Gris Nez	29.94	47	W.S.W.	3	0	29.90	+ .04	46	45	+ .5	S	5	T	5	5.4	3.9	0.12
	Paris ...	30.06	44	S	2	b	30.09	+ .18	41	40	+ .8	S	2	0	*	5.4	?	-
	Brest ...	?	54	SW	5	T	29.88	?	51	50	0	SSE	1	T	5	?	4.8	0.24
	Lorient ...	29.99	54	SSW	3	0	29.91	- .06	55	55	+ .5	SSW	3	T	5	5.5	4.6	0.75
FRANCE AND BELGIUM.	Rochefort ...	30.08	58	SW	3	C	30.04	+ .07	57	55	+ .12	SW	5	T	*	5.9	4.5	-
	Belfort ...	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Lyons ...	30.12	41	W.S.W.	2	b	30.23	+ .23	35	34	- .1	ESE	2	b	*	5.0	3.3	-
	Nice ...	29.82	48	W	2	b	30.00	+ .23	42	38	- .1	NE	5	b	1	5.5	4.1	-
	Perpignan ...	30.05	52	W	2	b	30.14	+ .19	48	45	- .1	W.S.W.	1	b	*	5.9	4.4	-
	Biarritz ...	30.13	54	W	4	0	30.12	+ .11	51	48	- .5	SE	0	b	5	5.7	4.8	0.04
PENINSULA.	Corunna ...	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Lisbon ...	30.22	57	W.S.W.	4	b	30.25	+ .04	49	49	- .7	W	3	f	6	6.4	4.8	-

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, 13th November,

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.

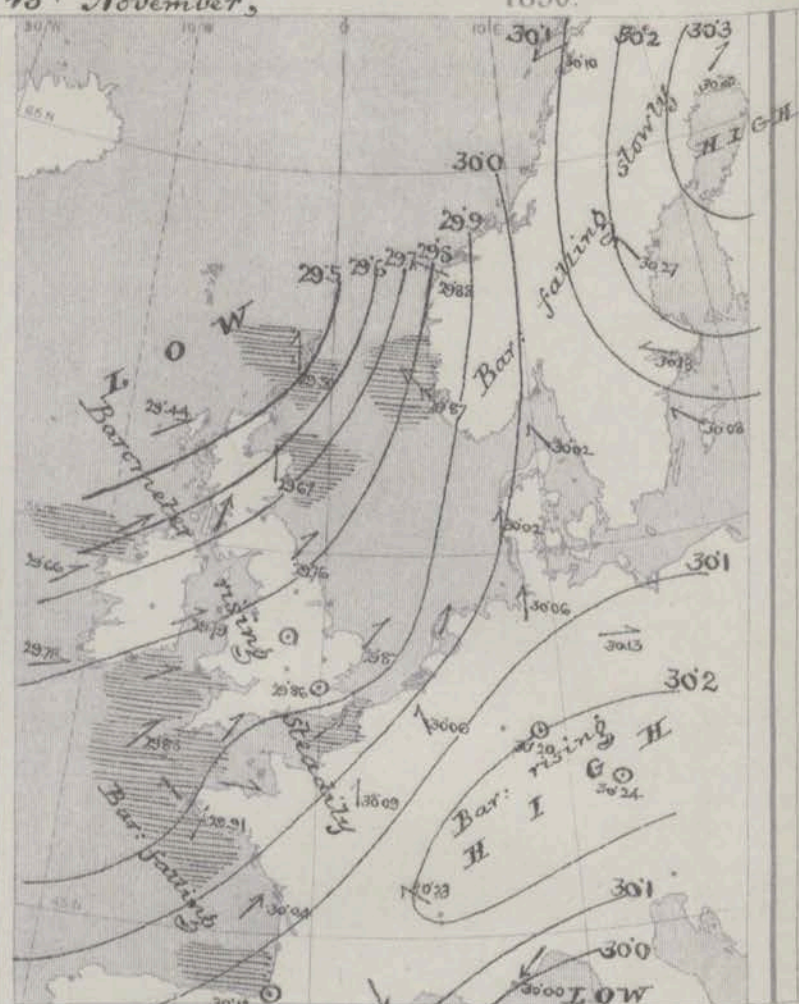
SEA DISTURBANCE—Where considerable, is shown thus:

▨ = Rough. ▨ = High.

MEAN HEIGHT OF THE BAROMETER

at 8.0 a.m. for the month of November.
During the 15 Years, 1871—1885.

STATIONS.	MEAN READINGS.
Sumburgh Head	29.087
Stornoway	29.707
Wick	29.726
Nairn	29.743
Aberdeen	29.730
Leith	29.793
Shields	29.815
York	29.841
Loughborough	29.876
Ardrossan	29.795
Donaghadee	29.841
Holyhead	29.835
Liverpool	29.852
Parsonstown	29.848
Valencia	29.864
Roshe's Point	29.864
Pembroke	29.862
Sailly	29.808
Jersey	29.923
Hurst Castle	29.898
Dover	29.893
LONDON	29.897
Oxford	29.895
Cambridge	29.885
Yarmouth	29.863



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.

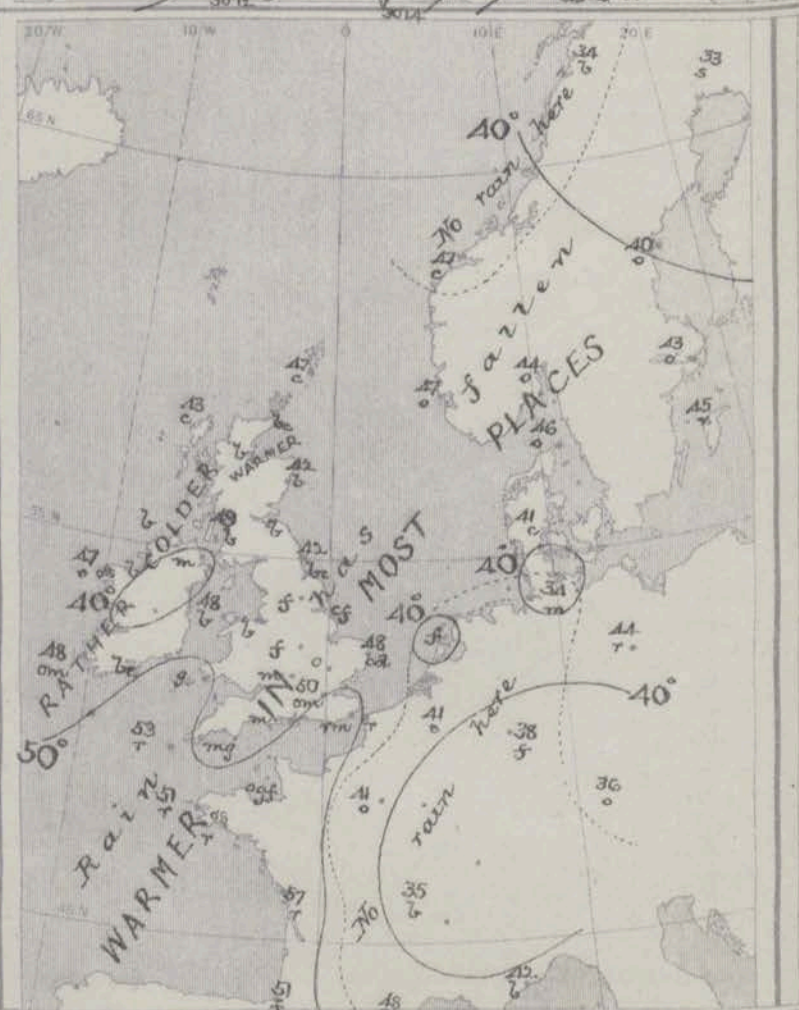
RAINFALL—A dotted line separates the districts in which rain has fallen from those where there has been none. Falls of 0.5 in. or more are quoted in figures.

MEANS OF TEMPERATURE IN SHADE, AND RAINFALL.

(For the month of November.)

STATIONS.	TEMPERATURE.				RAINFALL. (Inches.)
	Daily Max.	Daily Min.	at 8 a.m.		
			Dec.	Nov.	
Sumburgh Head.....	45.3	37.4	41.5	39.8	4.24
Stornoway	45.7	36.7	41.0	39.9	4.60
Wick.....	45.7	35.7	40.9	39.3	2.97
Nairn	44.7	35.5	39.1	37.5	2.32
Aberdeen	46.1	36.3	40.3	38.5	3.10
Leith.....	48.2	36.7	41.2	39.6	2.11
Shields.....	47.1	38.1	41.8	40.2	2.03
York.....	47.7	36.7	40.3	39.0	2.21
Loughborough	48.0	36.4	40.2	38.9	2.30
Ardrossan	47.7	35.9	42.6	40.8	2.92
Donaghadee.....	48.2	39.2	42.9	41.7	3.13
Holyhead.....	49.7	42.8	45.5	43.8	3.71
Liverpool	47.7	39.5	42.1	40.4	2.87
Parsonstown	49.1	36.9	41.7	40.0	2.84
Valencia.....	52.4	42.7	47.2	45.2	5.50
Roshe's Point.....	51.1	41.8	45.9	44.3	4.56
Pembroke.....	50.2	43.7	46.7	44.7	3.96
Scilly.....	52.3	46.7	50.0	48.0	3.75
Jersey.....	51.9	44.2	47.5	46.6	4.24
Hurst Castle.....	50.5	40.3	44.6	43.0	2.98
Dover.....	49.1	40.7	41.0	42.4	3.56
LONDON.....	49.6	42.0	42.0	40.5	2.14
Oxford.....	48.6	37.6	41.0	39.7	2.30
Cambridge.....	48.8	35.7	40.3	39.5	2.02
Yarmouth.....	47.3	39.1	42.5	41.8	3.15

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



GENERAL SITUATION AT 8 A.M.

PRESSURE	<p>Highest, 30.3 in. and upwards, in the north of Sweden; 30.2 in. and upwards in Germany and also in the south of Portugal.</p> <p>Lowest, 29.5 in. and less, in a depression lying to the northward and northward of Scotland.</p> <p>Gradients moderate or slight generally.</p> <p>Barometer falling in Scandinavia and also in the east of France, but rising elsewhere.</p>
TEMPERATURE	<p>Highest, 57° at Rostock, 55° at Lorient, 53° at Lorient, 52° at Penbrooke, and 51° at Lingen, Jersey, Brest, and Birmm.</p> <p>Lowest, 33° at Haparanda, 34° at Bodö and Luleå, 35° at Lyons, 36° at Loughborough and Munich, and 38° at York and Wiesbaden.</p> <p>A considerable rise has taken place in the southeast of England.</p>
WIND	<p>Light or moderate from the SWnd over the greater part of the United Kingdom.</p> <p>Light from S. over Denmark, the Netherlands, and the north of France.</p> <p>SE or E in Scandinavia, with a gale at Skutumpah.</p>
WEATHER	<p>Fine in Ireland, Scotland, and the north of England, the west of Norway and the south of France.</p> <p>Rain elsewhere, with rain in the south of England, and the west of France, and snow at Haparanda.</p> <p>Rain fell generally, yesterday, and lightning was seen at Mullaghmore at night.</p>
SEA	<p>Rather rough on many part of our southwestern, southern, and northern coasts, as well as in the Bay of Biscay, but slight in the east.</p>

PROBABLE CHANGES IN SYSTEM NOW PREVALENT

A small but shallow depression which is now lying off the northwest of France seems likely to travel northeastwards and occasion rain over England. There are at present no signs of any new disturbance in the far west.

FORECASTS

For the 24 hours ending at NOON on 14th Nov^r 1890.

DISTRICTS.		FORECASTS.		DISTRICTS.		FORECASTS.	
0	SCOTLAND NORTH	{	SW ^{ly} to S ^{ly} winds, light or moderate; fine to unsettled and some rain	6	SCOTLAND WEST	{	S ^{ly} and SW ^{ly} winds, moderate or fresh; fine to cloudy and some rain.
1	SCOTLAND EAST			7	ENGLAND N.W.		
2	ENGLAND N.E.			8	ENGLAND S.W.	{	SW ^{ly} to S ^{ly} winds, freshening; changeable, some rain.
3	ENGLAND EAST	9	IRELAND NORTH				
4	MIDLAND COUNTIES	10	IRELAND SOUTH				
5	ENGLAND SOUTH			WARNINGS		The <u>SOUTH CONE</u> has been lowered	

The SOUTH CONE has been lowered this morning in districts 8 and 10.

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

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

YESTERDAY'S 2 P.M. REPORTS.

	BAR:	THER:		WIND		WEA.	SEA		BAR:	THER:		WIND		WEA.	SEA
		D.	W.	D.	F.					D.	W.	D.	F.		
Skudesnaes ...	29.95	50	45	SE	6	0	3		Holyhead ...	29.65	50	48	SSW	5	rmg
Sumburgh Head ...	29.68	48	46	SE	2	0	6		Valencia ...	29.52	53	50	WSW	5	cq p
Stornoway ...	29.38	48	45	SE	6	0	6		Scilly ...	29.73	54	54	S	6	0
Aberdeen ...	29.61	46	46	SE	5	cq p	6		Jersey ...	29.95	54	50	SW	3	0
Shields ...	29.69	48	45	SE	3	0	3		Dungeness ...	29.89	54	51	W	3	bc
Ardrossan ...	29.85	49	47	S	4	0	4		London ...	29.88	55	50	SW	3	0
Mulin Head ...	29.21	44	44	SE	6	0	4		Yarmouth ...	29.86	48	46	SSW	2	0
Mullaghmore ...	29.25	44	51	SE	9	0	6		Rochefort ...	30.06	59	53	SE	3	0
Belmullet ...	29.32	51	50	SW	2	0	*								

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

Weather still unsettled as a whole, temporarily fine over England and Norway in morning, as well as on the Spanish coast and on the southern shores of the Mediterranean; dull elsewhere, rainy in Ireland, at many of the Baltic, German and French stations, in Italy, and Corsica, foggy in Austria. Rain falling very generally over Sweden and the British Isles later, as well as in the north of France and on the eastern shores of the North Sea, but amounts reported not large.

Temperature changed considerably and irregularly. Morning readings exceeding 60° in Malta and Algeria only, but exceeding 50° at many of the extreme southern and western stations, including those on our own southwest coast; as high as 48° at Sumburgh Hd., 50° at Skudesnaes. Lowest values 24° to 29° over Russia and Finland, 33° to 39° over western and southern Germany, and 29° to 38° over the inland parts of Great Britain.

Wind E³ over northern Europe, SE³ over the Baltic Provinces, as well as over the North Sea and Scotland; light to moderate in most places, but blowing a gale at Wick. S³ to SW³ on our western coast (a gale at Valencia), W³ over the Bay of Biscay, very variable and light over France and Central Europe, but strong and cyclonic over the Mediterranean. Turning to the West in Ireland later, and blowing from between SE and SW at our northern and northwestern stations.

Barometer highest, 30.5 ins. to 30.1 ins. over northern and eastern Europe, and 30.2 ins. to 30.0 ins. over the Spanish Peninsula and Algeria, below 29.9 ins. over the Mediterranean, Central Europe, the North Sea, and the British Isles, and as low as 29.5 ins. and less off our west and northwest coasts, and 29.7 ins. over Sardinia, Corsica, and Central Italy. New depression approaching Scotland from the southward 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 *Friday, 14th November,* 1890.
Issued by the Meteorological Office, 63, Victoria Street, London. R. H. SCOTT, Secretary.

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

STATIONS.	YESTERDAY EVENING.					8 A.M. TO DAY.										PAST 24 HOURS.		
	BAROM. Reading at 32° F. and Sea Level.	TEMP. Dry.	WIND.		Weather.	BAROMETER.		SHADE TEMP.			WIND.		Weather.	Sea. (0 to 5.)	SHADE TEMP.			
			Force. (0 to 12.)			Reading at 32° F. and Sea Level.	Difference from 8 a.m. yesterday.	Dry.	Wet.	Difference from 8 a.m. yesterday.	Dirce.	Force. (0 to 12.)			Max.	Min.	Amount of Rainfall.	
SCANDINAVIA.																		
Haparanda ...	30.19	33	Z	0	0	30.08	-24	31	31	-2	Z	0	f	*	?	23	-	
Hernösand ...	30.14	40	SE	2	1	30.10	-17	38	38	-2	Z	0	0	*	43	34	0.20	
Stockholm ...	30.11	45	Z	0	5	30.15	-03	43	42	0	Z	0	0	*	48	37	0.20	
Wisby ...	30.12	45	SE	4	2	30.14	+06	45	45	0	NSW	2	0	*	50	41	0.08	
Bodö ...	29.97	37	E	2	0	29.95	-15	41	36	+7	ESE	2	0	1	?	30	-	
Christiansund	29.83	49	ESE	3	0	29.95	+07	43	42	-4	ESE	1	0	2	48	41	-	
Skudesnaes ...	29.91	48	SSE	2	0	30.04	+17	46	44	-1	SSE	4	0	4	50	45	0.12	
Christiania Fjord (Færdor)	30.02	47	SSE	2	0	30.05	+01	46	45	+2	S	4	1	4	?	?	0.16	
Skagen (The Scaw)	30.08	46	SSW	2	0	30.09	+07	44	43	-2	SSW	3	1	2	46	?	0.04	
Fanö ...	30.05	43	S	5	0	30.08	+06	40	39	-1	S	4	0	*	46	39	0.20	
Sumburgh Head	29.68	46	SW	1	0	29.83	+33	45	44	-2	SW	1	0	3	49	44	0.01	
Stornoway ...	29.64	44	SW	4	0	29.68	+24	49	48	+6	S	7	1	6	49	41	0.04	
Wick ...	29.73	45	SW	2	0	29.63	+26	47	45	+4	S	3	0	2	47	42	-	
Nairn ...	29.74	43	Z	0	0	29.81	+24	46	43	+4	S	2	0	1	50	39	-	
Aberdeen ...	29.81	42	SSW	2	0	29.92	+25	43	42	+3	S	2	cmw	3	47	40	-	
Leith ...	29.84	44	W	1	0	29.90	+21	41	40	-4	SE	1	om	*	51	35	-	
Shields ...	29.86	46	Z	0	m	29.95	+19	42	41	0	SSE	3	1	2	52	36	-	
Spurn Head ...	29.89	47	Z	0	0	30.01	+18	41	41	-2	S	1	1	1	48	37	0.01	
York ...	29.90	45	S	1	0	30.00	+16	35	35	-3	Z	0	1	*	50	33	0.01	
Loughborough	29.93	40	Z	0	0	30.03	+17	35	35	-1	E	1	ofw	*	45	33	0.01	
BRITISH ISLANDS.																		
Ardrossan ...	29.84	49	SW	2	0	29.84	+15	47	46	-2	ESE	3	0	3	50	42	-	
Malin Head ...	29.76	46	SSW	3	0	29.68	+09	45	45	0	SSE	3	0	4	49	43	0.06	
Mullaghmore ...	29.79	48	SSW	4	0	29.59	-06	47	46	+2	ESE	5	0	4	51	44	0.36	
Belmullet ...	29.78	48	SW	2	0	29.47	-19	46	46	-1	E	4	0	*	51	45	0.25	
Donaghadee ...	29.86	44	SW	2	0	29.79	+05	50	48	+11	SSE	5	1	3	51	39	0.04	
Liverpool (Bidston)	29.92	46	S	1	0	29.94	+12	41	41	-2	SE	4	0	3	50	37	0.01	
Holyhead ...	29.90	48	SW	1	0	29.83	+04	48	45	0	SE	4	0	3	53	45	0.01	
Parsonstown ...	29.86	43	Z	0	0	29.53	-24	49	48	+10	SE	3	1	6	53	38	0.32	
Valencia ...	29.82	51	SSE	3	0	29.46	-32	58	57	+10	SSW	8	1	5	58	46	1.19	
Roche's Point...	29.87	50	NSW	1	0	29.62	-18	54	54	+8	S	8	1	5	56	45	0.45	
Pembroke (St. Ann's Hd.)	29.92	50	NE	1	0	29.83	-02	50	50	-2	SE	6	1	6	54	45	0.03	
Scilly ...	29.82	49	E	3	0	29.82	-06	55	55	+2	S	4	1	5	55	49	0.06	
Prawle Point ...	29.91	48	ESE	3	0	29.98	+08	51	51	+2	SSE	5	1	3	51	44	0.12	
Jersey (St. Aubin's)	29.88	48	NE	3	1	30.03	+10	52	51	+1	ESE	3	0	3	54	48	0.32	
Hurst Castle ...	29.93	47	SE	2	0	30.04	+14	45	45	-3	E	2	1	2	52	40	0.04	
Dungeness ...	29.54	49	Z	0	1	30.03	+15	42	42	-9	NSW	2	1	2	53	39	0.22	
London ...	29.93	49	Z	0	0	30.04	+18	39	39	-11	SE	1	0	*	52	38	-	
Oxford ...	29.99	39	NE	1	0	30.04	+16	38	37	-4	SE	1	0	*	47	35	-	
Cambridge ...	29.96	44	NW	1	0	30.07	+21	34	34	-13	NW	1	0	*	50	32	-	
Yarmouth ...	29.91	46	NW	1	0	30.01	+14	38	38	-10	Z	0	0	2	49	35	0.02	
GERMANY & HOLLAND.																		
Cuxhaven ...	30.12	39	S	2	0	30.12	+06	39	38	+5	SSE	2	0	*	44	?	-	
Berlin ...	30.23	44	NNE	1	0	30.21	+08	39	38	-5	SE	3	0	*	46	37	0.04	
Wiesbaden ...	30.23	44	SE	1	0	30.12	-08	40	39	+2	Z	0	0	*	45	37	0.08	
Munich ...	30.23	33	SE	4	0	30.21	-03	29	28	-7	SE	2	0	*	41	27	-	
The Helder ...	29.96	45	S	2	1	30.03	+05	43	43	+4	S	1	1	1	46	39	0.28	
FRANCE AND BELGIUM.																		
Brussels (9 a.m.)	30.03	43	S	1	0	30.03	-03	43	43	+2	Z	0	0	*	49	41	0.35	
Cape Gris Nez	29.94	48	SW	1	1	30.00	+10	45	44	-1	E	2	0	2	52	43	0.32	
Paris ...	30.00	49	S	2	1	30.03	-06	52	52	+11	SW	1	1	4	54	?	0.12	
Brest ...	29.85	50	NNE	4	0	29.96	+08	55	54	+4	W	3	1	4	55	48	-	
Lorient ...	29.87	55	SW	6	1	30.03	+12	56	56	+1	NSW	4	1	5	57	52	0.28	
Rochefort ...	30.05	56	E	1	1	30.12	+08	57	57	0	W	4	0	*	59	50	0.43	
Belfort ...	?	44	W	1	0	?	?	38	35	?	W	1	1	*	52	32	0.04	
Lyons ...	30.22	40	SSW	1	0	30.21	-02	41	41	+6	NSW	1	1	*	45	?	-	
Nice ...	30.08	49	E	4	0	30.13	+13	45	38	+3	E	5	1	1	63	?	-	
Perpignan ...	30.13	51	Z	0	0	30.18	+04	52	48	+4	W	1	0	*	64	43	-	
Biarritz ...	30.13	56	E	1	0	30.18	+06	52	51	+1	E	1	0	5	61	50	-	
PENIN- SULA.																		
Corunna ...	30.23	59	NW	4	0	30.24	-01	48	48	-1	NNE	3	1	5	63	48	-	
Lisbon ...	30.23	59	NW	4	0	30.24	-01	48	48	-1	NNE	3	1	5	63	48	-	

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, 14th November,

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

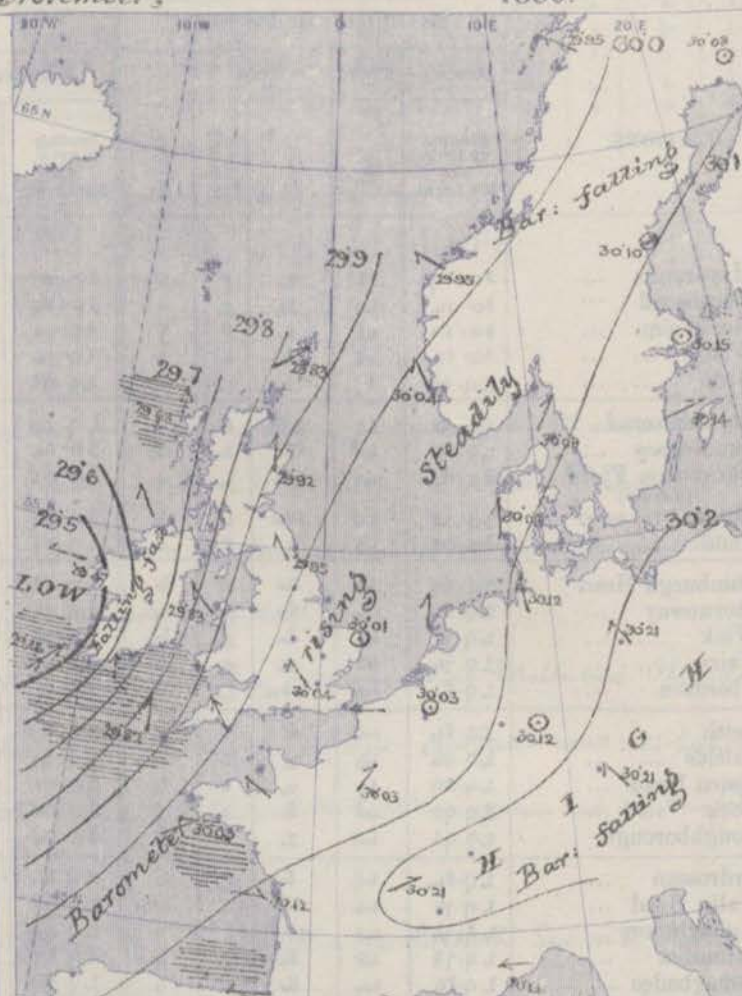
at 8.0 a.m. for the month of November.

During the 15 Years: 1871—1885.

STATIONS.

MEAN READINGS.

STATIONS.	MEAN READINGS.
Sumburgh Head	29.687
Stornoway	29.707
Wick	29.726
Nairn	29.743
Aberdeen	29.756
Leith	29.793
Shields	29.815
York	29.841
Loughborough	29.876
Ardrossan	29.795
Donaghadee	29.811
Holyhead	29.835
Liverpool	29.852
Parsonstown	29.848
Valencia	29.864
Roche's Point	29.864
Pembroke	29.862
Selly	29.808
Jersey	29.923
Hurst Castle	29.898
Dover	29.893
LONDON	29.897
Oxford	29.893
Cambridge	29.885
Yarmouth	29.863



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.

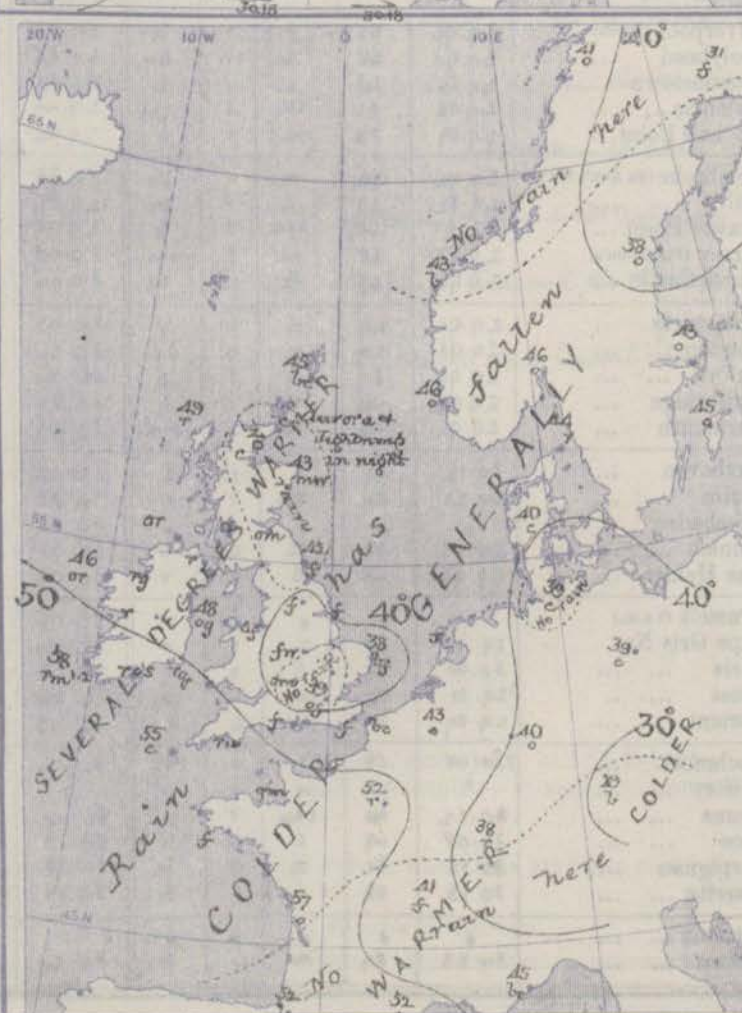
RAINFALL—A dotted line separates the districts in which rain has fallen from those where there has been none. Falls of 0.5 in. or more are quoted in figures.

MEANS OF TEMPERATURE IN SHADE, AND RAINFALL.

(For the month of November.)

STATIONS.	TEMPERATURE.				RAINFALL. (Inches.)
	Daily Max.	Daily Min.	Dry. at 8 a.m.	Wet.	
Sumburgh Head	45.3	37.4	41.5	39.8	4.24
Stornoway	45.7	36.7	41.0	39.9	4.60
Wick	45.7	35.7	40.9	39.3	2.97
Nairn	44.7	35.5	39.1	37.5	2.32
Aberdeen	46.1	36.3	40.3	38.5	3.16
Leith	48.2	36.7	41.2	39.6	2.11
Shields	47.1	38.1	41.8	40.2	2.63
York	47.7	36.1	40.3	39.0	2.21
Loughborough	48.0	36.4	40.2	38.0	2.30
Ardrossan	47.7	34.0	42.6	40.8	3.92
Donaghadee	48.2	39.2	42.9	41.7	3.13
Holyhead	49.7	42.8	45.5	43.8	3.71
Liverpool	47.7	39.5	42.1	40.4	2.87
Parsonstown	49.1	36.9	41.7	40.0	2.84
Valencia	62.4	42.7	47.2	45.2	5.50
Roche's Point	51.1	41.8	45.9	44.3	4.56
Pembroke	50.2	43.7	46.7	44.7	3.96
Selly	52.6	46.7	50.0	48.0	3.76
Jersey	51.9	44.2	47.7	45.6	4.24
Hurst Castle	50.6	40.3	41.6	43.6	2.98
Dover	49.1	40.7	41.0	42.4	3.56
LONDON	49.0	37.9	42.0	40.5	2.14
Oxford	48.6	37.6	41.0	39.7	2.70
Cambridge	48.8	35.7	40.3	39.5	2.02
Yarmouth	47.5	39.1	42.0	41.8	5.15

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, 30.2 in. and upwards, in Germany, and also in the south of Portugal. Lowest, 29.5 in. and less, in a depression lying off the west of Ireland. Barometer rather steep over our western coasts but slight elsewhere.
TEMPERATURE	Barometer falling quickly at many of our western stations, but fall checked at Valencia Island. Highest, 58° at Valencia Island, 57° at Rochefort, 56° at Frint, 55° at Lully, and 54° at Rochefort. Lowest, 23° at Munich, 31° at Haparanda, 35° at York and Loughborough, and 38° at Hemm and Oxford. Slight frost occurred last night over the inland parts of England.
WIND	Chiefly S ³ or SE ³ ; fresh or strong in force on our western coasts, with a gale in the south of Ireland. Moderate from the W ² in the south of France; variable over the central part of that country; calm in Sweden.
WEATHER	Foggy over the eastern, central, and southeastern parts of England. Rainy in the west and southwest of our Islands; cloudy at most of the Continental stations. Heavy rain has fallen in the west, the largest amount being 1.2 in. at Valencia Island. Aurora and lightning were seen at Nish last night.
SEA	Rough on our southern coasts and also at Norway, and rather rough in the Bay of Biscay, but moderate or slight elsewhere.

PROBABLE CHANGES IN SYSTEM NOW PREVALENT

The depression off the west of Ireland seems likely to move northwards, and will probably occasion increasing southerly winds in Scotland. The rainy weather in the west seems to be spreading quickly eastwards.

FORECASTS

For the 24 hours ending at NOON on 15 NOVEMBER 1890.

DISTRICTS.	FORECASTS.	DISTRICTS.	FORECASTS.
0 SCOTLAND NORTH	S ² winds, increasing in force; squally, some rain.	6 SCOTLAND WEST	SE ² to S ² winds, increasing in force; squally, some rain.
1 SCOTLAND EAST		7 ENGLAND N.W.	
2 ENGLAND N.E.	S ² winds, freshening; fair to dull and some rain.	8 ENGLAND S.W.	S ² winds, strong; squally, some rain.
3 ENGLAND EAST	S ² winds, light or moderate; fair to unsettled and some rain.	9 IRELAND NORTH	Same as Nos 6 and 7.
4 MIDLAND COUNTIES		10 IRELAND SOUTH	S ² to SW ² gales, moderating later; squally and rainy to fair.
5 ENGLAND SOUTH		WARNINGS	NONE ISSUED.

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

YESTERDAY'S 2 P.M. REPORTS.

	BAR:	THER:		WIND				SEA			BAR:	THER:		WIND				SEA		
		D.	W.	D.	F.	WEA.						D.	W.	D.	F.	WEA.				
Skudesnaes ...	29.86	49	46	SSE	8	r	5				Holyhead ...	29.86	52	49	SW	3	c	3		
Sumburgh Head ...	29.66	47	45	SW	1	bc	4				Valencia ...	29.82	53	50	SSW	2	bc	2		
Stornoway ...	29.56	46	45	SW	4	c	4				Scilly ...	29.75	52	51	ESE	3	bc	6		
Aberdeen ...	29.75	46	43	SSW	3	b	5				Jersey ...	29.91	51	48	N	2	o	2		
Shields ...	29.81	51	47	SSE	3	cm	3				Dungeness ...	29.91	52	52	WNW	4	o	3		
Ardrossan ...	29.78	50	48	SW	3	b	2				London ...	29.91	52	50	z	o	o f g	3		
Malin Head ...	29.70	47	45	SW	3	o	3				Yarmouth ...	29.84	49	48	SW	1	o g m	3		
Mullaghmore ...	29.74	51	47	SSW	4	bc m	6				Rocheport ...	30.05	5	55	SW	5	o	3		
Belmullet ...	29.74	51	47	SW	2	o	*													

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

Weather in morning fine over the Spanish Peninsula and western half of the Mediterranean, as well as in many parts of the British Islands, Norway, and Central France. Dull generally elsewhere, with rain locally over Ireland, the west of France, the southeastern part of the Mediterranean, north Germany, and the Baltic. Rain falling later over nearly the whole of northwestern Europe - heavily at Valencia, dense fog in the east and southeast of England at night.

Temperatures changing but little except over Southern Russia, where a decided fall occurred. Morning readings still exceeding 50° at most of the southeastern, southern, and southwestern stations, as well as on our own southwest coast, and above 40° on the coast of northwestern Europe generally, much lower elsewhere. Ranging from 20° to 30° over Russia, and as low as 36° to 39° over our midland counties and the central parts of Ireland, western Germany, and the eastern parts of France. Rising during the day to between 50° and 60° over Ireland, England, and France.

Wind still SE over the Baltic, Russia, and Scandinavia, mainly SW over the United Kingdom, very variable over Spain, France, and Central Europe. A cyclonic circulation of strong winds prevailing over Italy, the Adriatic, and southeastern parts of the Mediterranean. Becoming very light and variable over the southern parts of England later, not much change elsewhere.

Barometer highest 30.7 ins: and more to 30.2 ins: over Russia, Finland, and the greater part of Sweden; 30.3 ins: to 30.2 ins: over the Spanish Peninsula, and 30.2 ins: to 30.1 ins: over the greater part of France and Austria, and nearly the whole of Germany. Lowest 29.5 ins: and less, off our extreme northwest coasts and about 29.8 ins: in a depression over the south of Italy, as well as in a shallow system near the mouth of the Channel. Falling briskly over Cornwall and Brittany during the day, rising in Ireland and 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 *Saturday, 15th November, 1890.*
Issued by the Meteorological Office, 63, Victoria Street, London. R. H. SCOTT, Secretary.

Issued by the Meteorological Office, 65, Victoria Street, London. H. 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 2.)	SHADE TEMP.		Amount of Rainfall.	
				Force. (0 to 12.)			Reading at 32° F. and Sea Level.	Difference from 8 a.m. yesterday.	Dry.	Wet.	Difference from 8 a.m. yesterday.	Dirce.	Force. (0 to 12.)		Max.	Min.		
SCANDINAVIA.	Haparanda ...	30.03	33	Z	0	0	30.01	-0.07	33	33	+2	Z	0	f	*	34	28	0.04
	Hernösand ...	30.09	39	Z	0	0	30.06	-0.04	34	36	-1	Z	0	o	*	45	34	-
	Stockholm ...	30.17	41	Z	0	r	30.10	-0.05	39	39	-4	Z	0	f	*	48	39	0.04
	Wisby ...	30.17	43	SW	4	0	30.12	-0.02	43	43	-2	W	4	o	*	46	39	-
	Bodö ...	30.02	39	SE	1	r	29.99	+0.04	39	37	-2	E	1	bc	1	41	36	-
	Christiansund	30.01	41	ESE	2	b	29.72	-0.23	46	41	+3	SE	5	c	2	46	41	-
	Skudesnaes ...	30.00	46	SE	5	0	29.68	-0.36	47	44	+1	SSE	8	o	5	47	46	0.20
	Christiania Fjord (Færder)	30.12	42	W	2	0	29.97	-0.08	43	42	-3	SE	4	r	3	46	41	0.08
	Skagen (The Scaw)	30.09	44	SSW	1	b	29.94	-0.15	44	42	0	S	6	o	3	46	43	-
	Fanö ...	30.08	38	SSW	2	c	29.95	-0.13	45	45	+5	S	6	o	*	45	34	-
BRITISH ISLANDS.	Sumburgh Head	29.71	48	SSE	5	0	29.69	-0.14	45	43	0	W	6	c	6	47	44	0.25
	Stornoway ...	29.57	44	SW	3	r	29.88	+0.20	45	44	-4	SW	3	c	3	49	38	0.10
	Wick ...	29.60	42	S	7	r	29.93	+0.10	41	40	-6	W	2	bc	2	47	40	0.30
	Nairn ...	29.55	42	Z	0	r	29.97	+0.16	43	41	-3	W	2	c	1	47	40	0.60
	Aberdeen ...	29.65	45	SSE	7	ogru	30.00	+0.08	41	38	-2	SW	2	b	4	49	39	0.34
	Leith ...	29.55	46	SE	4	0	30.05	+0.15	43	40	+2	W	1	bm	*	56	39	0.33
	Shields ...	29.72	48	SE	4	0	30.04	+0.09	42	40	0	W	3	b	3	54	38	0.07
	Spurn Head ...	29.86	46	S	6	ep	30.05	+0.07	45	43	+4	W	3	c	3	52	41	0.01
	York ...	29.82	47	S	3	0	30.13	+0.13	40	38	+5	N	1	b	*	56	34	0.01
	Loughborough	29.89	52	SSW	4	c	30.13	+0.10	42	41	+7	W	1	bc	*	57	35	0.03
BRITISH ISLANDS.	Ardrossan ...	29.49	54	S	5	0	30.09	+0.25	49	46	+2	W	2	b	1	54	45	0.78
	Malin Head ...	29.53	48	W	6	bcyp	30.08	+0.40	46	43	+1	SSW	3	b	3	51	42	0.25
	Mullaghmore ...	29.68	49	W	6	0	30.13	+0.54	45	42	-2	SW	3	b	4	54	42	0.24
	Belmullet ...	29.75	48	W	3	c	30.15	+0.68	48	47	+2	SW	1	o	*	49	44	0.24
	Donaghadee ...	29.54	55	SSW	5	r	30.17	+0.38	38	37	-12	W	3	bc	2	55	33	0.71
	Liverpool (Bidston)	29.73	51	SSE	5	0	30.16	+0.22	46	43	+5	W	3	b	4	56	41	0.06
	Holyhead ...	29.68	55	S	7	rgg	30.19	+0.36	47	44	-1	W	2	b	2	56	46	0.31
	Parsonstown ...	29.73	48	Z	0	2	30.21	+0.68	38	32	-16	Z	0	b	*	58	33	0.24
	Valencia ...	29.84	50	W	4	og	30.26	+0.80	41	40	-17	N	1	bc	2	58	38	0.10
	Roche's Point...	29.75	50	W	6	c	30.21	+0.59	42	40	-12	W	3	b	5	55	38	0.20
BRITISH ISLANDS.	Pembroke (St. Ann's Hd.)	29.77	55	SW	6	r	30.21	+0.38	47	45	-3	NE	2	bc	3	56	46	0.15
	Scilly ...	29.84	57	SSW	5	rpm	30.20	+0.38	51	48	-4	W	5	c	5	57	47	0.02
	Prawle Point ...	29.97	55	SSW	6	r	30.21	+0.23	46	45	-5	W	2	b	1	55	44	0.02
	Jersey (St. Aubin's)	30.07	58	S	3	bc	30.20	+0.17	54	53	+2	W	3	c	3	59	51	0.02
	Hurst Castle ...	30.02	56	SSW	5	0	30.13	+0.09	51	51	+6	NE	2	m	2	56	45	0.03
	Dungeness ...	30.05	53	SW	4	0	30.10	+0.07	55	55	+13	W	5	d	3	57	42	0.02
	London ...	30.02	52	SW	3	om	30.13	+0.09	50	48	+11	N	1	o	*	57	39	0.06
	Oxford ...	29.94	55	SW	3	c	30.16	+0.12	48	47	+10	N	1	o	*	56	37	0.03
	Cambridge ...	29.99	49	SSE	1	0	30.18	+0.08	49	47	+15	N	1	c	*	57	33	0.03
	Yarmouth ...	30.01	47	SW	2	c	30.07	+0.06	49	48	+11	W	3	om	3	52	36	0.05
GERMANY & HOLLAND.	Cuxhaven ...	30.11	42	S	2	c	30.08	-0.04	42	41	+3	SSW	3	o	*	45	?	-
	Berlin ...	30.19	42	Z	0	b	30.17	-0.04	42	41	+3	SSW	2	o	*	45	34	-
	Wiesbaden ...	*	*	*	*	*	30.24	+0.12	43	43	+3	Z	0	f	*	45	?	0.12
	Munich ...	30.23	41	SW	2	0	30.20	+0.09	45	45	+16	SW	2	m	*	45	28	0.04
	The Helder ...	30.09	43	S	1	f	30.02	-0.01	51	51	+8	SW	3	f	3	?	41	-
FRANCE AND BELGIUM.	Brussels (9 a.m.)	*	*	*	*	*	30.17	+0.14	52	52	+9	SW	3	c	*	52	42	-
	Cape Gris Nez	30.04	48	S	4	f	30.11	+0.11	54	53	+9	SW	4	c	4	55	43	0.04
	Paris ...	30.16	52	SSE	1	0	30.25	+0.22	54	53	+2	SW	1	o	*	55	52	-
	Brest ...	30.04	55	W	5	5	30.21	+0.25	53	52	-2	W	1	o	5	57	46	-
	Lorient ...	30.13	55	SW	3	0	30.19	+0.16	54	54	-2	SW	2	f	5	57	54	-
	Rochefort ...	30.20	58	W	3	0	30.23	+0.11	52	52	-5	SE	1	m	?	59	46	-
FRANCE AND BELGIUM.	Belfort ...	?	48	W	1	f	?	?	38	34	0	W	1	f	*	53	36	-
	Lyons ...	30.23	48	SSE	1	r	30.30	+0.09	49	48	+8	N	1	o	*	51	?	0.04
	Nice ...	30.13	48	ESE	5	0	30.16	+0.03	48	44	+3	E	4	b	1	53	?	-
	Perpignan ...	30.19	61	N	1	0	30.21	+0.03	56	53	+4	N	2	o	*	68	?	-
	Biarritz ...	30.21	57	E	2	0	30.23	+0.05	50	48	-2	ESE	3	0	3	61	45	-
	PENINSULA.	Corunna ...	*	*	*	*	*	30.23	-0.01	50	49	+2	N	4	b	6	64	?
Lisbon ...		30.21	58	N	2	0	30.23	-0.01	50	49	+2	N	4	b	6	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

Saturday, 15th November,

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:

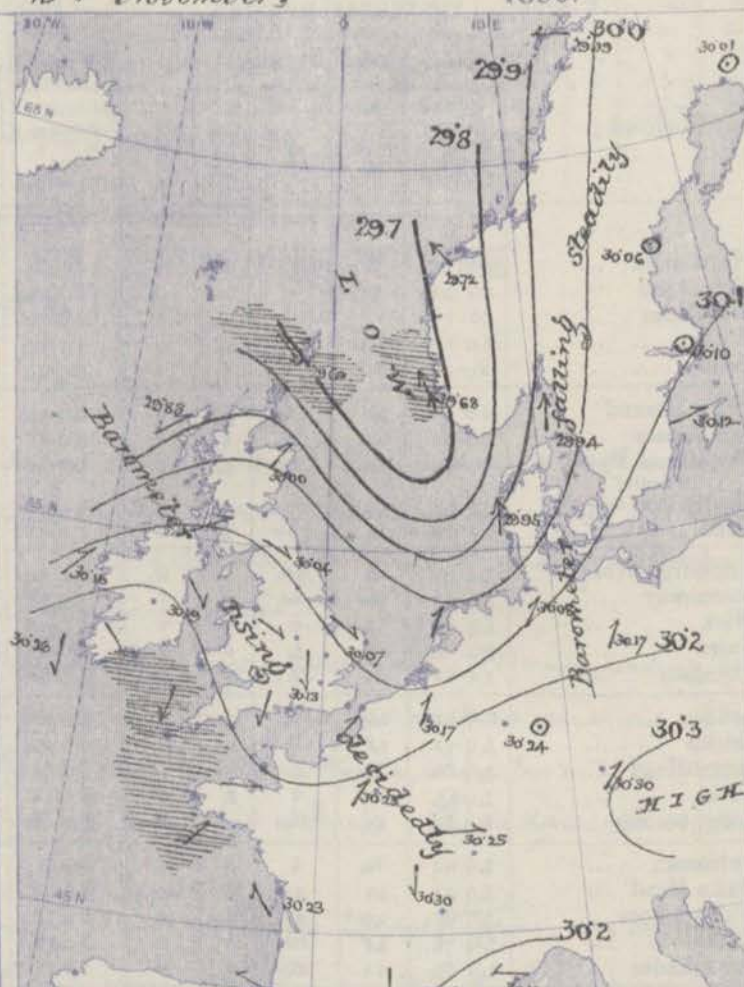
▨ = Rough. ▨ = High.

MEAN HEIGHT OF THE BAROMETER

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

During the 15 Years: 1871—1885.

STATIONS.	MEAN READINGS.
Sumburgh Head	29.687
Stornoway	29.707
Wick	29.726
Nairn	29.743
Aberdeen	29.756
Leith	29.793
Shields	29.815
York	29.841
Loughborough	29.870
Ardrossan	29.795
Donaghadee	29.811
Holyhead	29.835
Liverpool	29.852
Parsonstown	29.848
Valencia	29.864
Roche's Point	29.864
Pembroke	29.862
Selly	29.808
Jersey	29.923
Hurst Castle	29.898
Dover	29.893
LONDON	29.897
Oxford	29.893
Cambridge	29.885
Yarmouth	29.863



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.

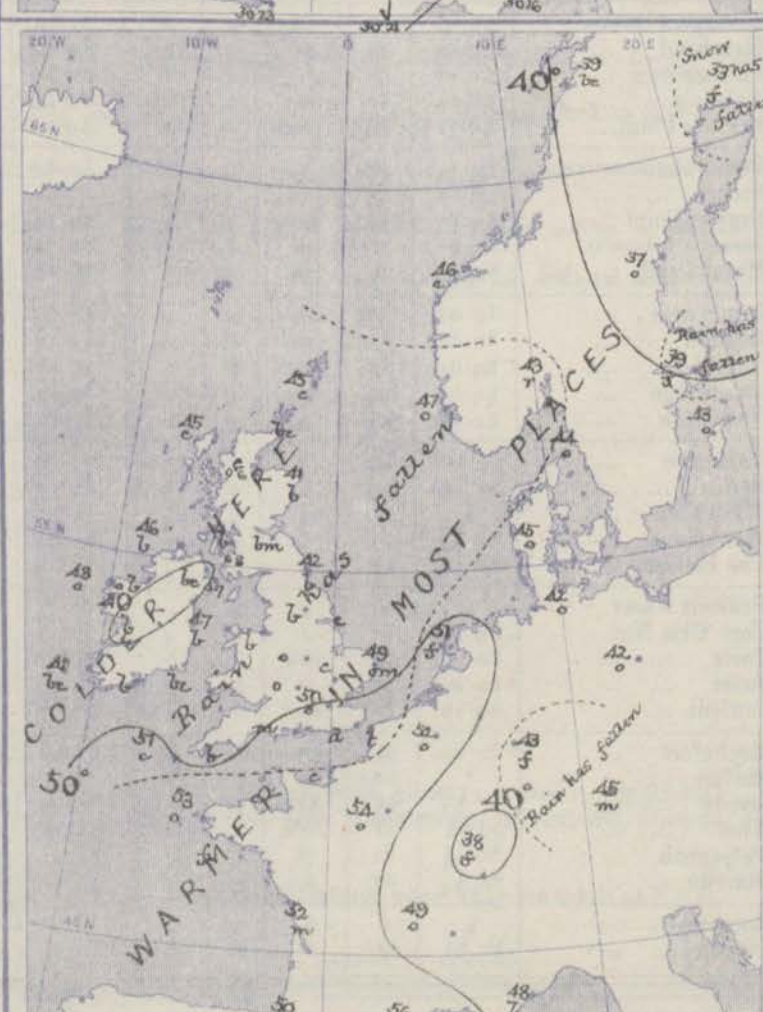
RAINFALL—A dotted line separates the districts in which rain has fallen from those where there has been none. Falls of 0.5 in. or more are quoted in figures.

MEANS OF TEMPERATURE IN SHADE, AND RAINFALL.

(For the month of November.)

STATIONS.	TEMPERATURE.				RAINFALL. (Inches.)
	Daily Max.	Daily Min.	Dry. at 8 a.m.	Wet.	
Sumburgh Head	45.3	37.4	41.5	39.8	4.24
Stornoway	45.7	36.7	41.0	39.9	4.60
Wick	45.7	35.7	40.9	39.3	2.97
Nairn	44.7	35.5	39.1	37.5	2.32
Aberdeen	46.1	36.3	40.3	38.5	3.16
Leith	48.2	36.7	41.2	39.6	2.11
Shields	47.1	38.1	41.8	40.2	2.63
York	47.7	36.1	40.3	39.0	2.21
Loughborough	48.0	36.4	40.2	38.9	2.30
Ardrossan	47.7	38.9	42.6	40.8	3.92
Donaghadee	48.2	39.2	42.9	41.7	3.13
Holyhead	49.7	42.8	45.5	43.8	3.71
Liverpool	47.7	39.5	42.1	40.4	2.87
Parsonstown	49.1	36.9	41.7	40.0	2.84
Valencia	52.4	42.7	47.2	45.2	5.50
Roche's Point	51.1	41.8	45.9	44.3	4.50
Pembroke	50.2	43.7	46.7	44.7	3.06
Selly	52.5	46.7	50.0	48.0	3.76
Jersey	51.9	44.2	47.5	45.6	4.24
Hurst Castle	50.5	40.3	44.6	43.0	2.98
Dover	49.1	40.7	44.0	42.4	3.56
LONDON	49.6	37.9	42.0	40.5	2.14
Oxford	48.6	37.6	41.0	39.7	2.90
Cambridge	48.8	35.7	40.3	39.5	2.02
Yarmouth	47.5	39.1	42.9	41.8	3.15

NOTE.—The Temperature means are for the 15 years 1871-85, the Rainfall means are mainly those for the 20 years 1864-85.



GENERAL SITUATION AT 8 A.M.

PRESSURE	<p>Highest, 30.30 ins. at Lyons and Munich; 30.2 ins. and upwards over South Germany, France, Spain, and the southeast of our Islands.</p> <p>Lowest, 29.7 ins. and less, in a depression lying off the west of Norway.</p> <p>Gradient moderate over the North Sea, but slight elsewhere.</p> <p>Barometer falling in Scandinavia, Denmark, and North Germany, but rising elsewhere.</p>
TEMPERATURE	<p>Highest, 56° at Perpignan, 55° at Bungeners, 54° at Jersey, Cape Fin Neg, Paris, and Lorient, and 53° at Brest.</p> <p>Lowest, 33° at Kaparanda and Parsonstown, 37° at Hertzberg, 38° at Donaghadee and Belfast, and 39° at Bodø and Stockholm.</p> <p>During yesterday the thermometer rose to 53° at Jersey, to 58° at Larne, and to 57° at several of our central and southern stations.</p>
WIND	<p>Light from the N.W. or N.W. over England and the south of Ireland.</p> <p>Light from W. in the east of Scotland, and from S.W. on our extreme northwest coast.</p> <p>Strong, to a gale from the S. or S.E. on the eastern shores of the North Sea; calm in Sweden; light from the E. in the south of France.</p>
WEATHER	<p>Fine over the greater part of the United Kingdom, but dull at our southeastern and most of the Continental stations, with fog at the Helder, Wiesbaden, Belfast and Lorient.</p> <p>Rain fell yesterday over the whole of our Islands, the largest amount being 0.8 in. at Ardara, and 0.7 in. at Donaghadee.</p>
SEA	<p>Rough at Lumburgh Head and rather rough on our southeast coast, but moderate to smooth elsewhere.</p>

PROBABLE CHANGES IN SYSTEM NOW PREVALENT

The backing winds on our northwest coast seem to indicate the approach of another depression, and the improvement in the weather is therefore likely to be very temporary.

FORECASTS

For the 24 hours ending at NOON on 16th Nov^r 1890.

DISTRICTS.	FORECASTS.	DISTRICTS.	FORECASTS.
0 SCOTLAND NORTH	W ^{ly} winds, light, to S ^{ly} , fresh; fine to dull and some rain.	6 SCOTLAND WEST	SW ^{ly} to S ^{ly} winds, freshening; fine to dull and rainy.
1 SCOTLAND EAST		7 ENGLAND N.W.	NW ^{ly} to SW ^{ly} winds, freshening; fine to dull and some rain.
2 ENGLAND N.E.	W ^{ly} to SW ^{ly} winds, moderate; fair to dull and some rain.	8 ENGLAND S.W.	NW ^{ly} to W ^{ly} winds, moderate; fair generally.
3 ENGLAND EAST	NW ^{ly} to W ^{ly} or SW ^{ly} winds, light; fair generally, cooler, some fog at night.	9 IRELAND NORTH	Same as No 6
4 MIDLAND COUNTIES		10 IRELAND SOUTH	Same as No 7
5 ENGLAND SOUTH		WARNINGS	NONE ISSUED.

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

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

YESTERDAY'S 2 P.M. REPORTS.

THER: WIND								THER: WIND							
BAR:		D.	W.	D.	F.	WEA.	SEA	BAR:		D.	W.	D.	F.	WEA.	SEA
Skudesnaes ...	29.07	46	45	SE	4	0	3	Holyhead ...	29.69	53	52	S	4	umpg	6
Sumburgh Head	29.79	48	46	SSE	3	0	3	Valencia ...	29.65	52	50	NW	4	0.9	4
Stornoway ...	29.62	46	46	S	4	0	5	Scilly ...							
Aberdeen ...	29.75	48	45	SSE	6	0.7	5	Jersey ...	30.06	59	57	SW	3	0	3
Shields ...	29.86	46	42	SE	3	f	3	Dungeness ...	30.04	49	48	SSW	4	0	3
Ardrossan ...	29.59	48	49	SE	4	0	3	London ...	30.03	52	50	S	4	0	*
Mulin Head	29.39	52	51	SW	7	0	3	Yarmouth ...	30.01	47	46	SW	1	60	2
Mullaghmore	29.42	51	51	W	5	0	4	Rocheport ...	30.18	59	58	W	3	0	*
Belmullet ...	29.53	49	48	NW	3	0	*								

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

Weather in morning fair as a whole over Southern Europe, more or less unsettled elsewhere; cloudy or overcast in almost all districts, very foggy over south Germany, Brittany, and England, rainy over the west of Ireland, the north of Denmark, and the Balearic Provinces, with snow at Uleaborg. Rain falling generally over the United Kingdom (heavily at some of our northwestern stations), and some local showers over the eastern shores of the North Sea and Germany.

Temperature rising over Western Europe as a whole, though temporarily rather low over England. Morning readings 50° to 59° in the southwest of our Islands, the west of France and north of Spain, as well as on the southern and southeastern shores of the Mediterranean and 52° even at Paris. Very low over Russia, the lowest values of all being (1) 13° at Moscow, 26° at Kharkov, 23° at St. Petersburg, 31° at Haparanda, and 32° at Kiev, (2) 23° at Munich, 33° at Prague, 36° at Vienna, and 38° at Berlin, (3) 34° at Cambridge, 35° over our north midland counties, and 39° in London. Rising to between 50° and 58° over England during day; reaching 57° in London at night.

Wind strong to a gale from the S^W on our western coasts, moderate from the same quarter in Scotland and on the eastern shores of the North Sea. Very light elsewhere, but chiefly from between W. and S. over the northern countries, and moderate from the N^W over the eastern half of the Mediterranean.

Barometer highest 30.6 ins. to 30.2 ins. over Russia, 30.3 ins. to 30.2 ins. over Spain, and exceeding 30.2 ins. in a "col" extending from Russia, eastern Germany and Austria across the southern part of France. Lowest, 29.5 ins. and less in a depression off the west of Ireland, 29.9 ins. and less in a large shallow disturbance over the southeastern part of the Mediterranean. Depression over Ireland advancing northwards across Scotland later, followed by a sharp recovery of pressure in 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 Sunday 16th NOVEMBER 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. Reading at 32° F. and Sea Level.	Temp. Dry.	Wind.		Weather.	Barometer.		Shade Temp.			Wind.		Sea. (0 to 8.)	Shade Temp.		Amount of Rainfall.		
			Force. (0 to 12.)	Dir.		Reading at 32° F. and Sea Level.	Difference from 8 a.m. yesterday.	Dry.	Wet.	Inference from 8 a.m. yesterday.	Dir.	Force. (0 to 12.)		Weather.	Max.		Min.	
SCANDINAVIA.	Haparanda ...	29.95	31	N	2	o	29.95	- .06	29	29	- 4	Z	0	0	*	36	28	—
	Hernösand ...	29.89	36	Z	0	o	29.92	- .14	36	35	- 1	NE	2	r	*	43	36	0.43
	Stockholm ...	29.85	41	SE	2	r	29.70	- .40	40	40	+ 1	NNW	2	o	*	45	37	0.20
	Wisby ...	29.88	42	SW	4	r	29.71	- .41	42	41	- 1	NW	6	r	*	46	39	0.08
	Bodö ...	29.82	38	E	4	b	29.91	- .08	35	32	- 4	E	2	b	1	39	32	—
	Christiansund	29.65	44	WNW	5	r	29.95	+ .23	45	44	- 1	W	8	r	5	46	43	0.24
	Skudesnaes ...	29.97	47	NW	5	bc	30.16	+ .48	43	41	- 4	NNW	4	o	2	48	41	0.12
	Christiana Fjord (Færiar)	29.82	42	W	3	c	29.96	- .01	45	40	+ 2	NNW	3	b	3	?	41	0.39
	Skagen (The Scar)	29.89	46	NW	6	b	29.99	+ .05	46	42	+ 2	NW	5	b	4	48	43	0.24
	Fanö ...	30.12	45	NW	4	b	30.18	+ .23	45	44	0	NW	4	b	*	50	45	0.08
BRITISH ISLANDS.	Sumburgh Head	29.98	45	WNW	3	bc	30.12	+ .43	40	39	- 5	Z	0	bc	3	49	38	0.04
	Stornoway ...	30.11	44	Z	0	c	29.97	+ .09	49	47	+ 4	S	5	c	5	49	36	0.01
	Wick ...	30.12	42	NW	2	0	30.08	+ .15	46	44	+ 5	S	6	bc	3	48	38	0.01
	Nairn ...	30.16	37	W	1	b	30.08	+ .11	37	35	- 6	Z	0	b	0	51	31	—
	Aberdeen ...	30.19	41	WSW	2	b	30.15	+ .15	42	41	+ 1	SSW	2	cgm	3	49	31	—
	Leith ...	30.22	45	SW	1	b	30.12	+ .07	38	37	- 5	SE	1	bc	*	52	32	—
	Shields ...	30.24	47	SW	2	m	30.20	+ .16	36	35	- 6	S	1	m	2	51	34	—
	Spurn Head ...	30.25	45	WSW	1	b	30.25	+ .17	43	42	- 2	SSE	2	bc	2	48	39	0.01
	York ...	30.29	42	W	1	b	30.24	+ .11	36	36	- 4	SSE	1	0	*	53	29	—
	Loughborough	30.31	37	Z	0	b	30.25	+ .12	38	37	- 4	ESE	1	cmm	*	54	29	—
GERMANY & HOLLAND.	Ardrossan ...	30.23	50	SW	3	c	30.11	+ .02	40	39	- 9	ENE	2	af	1	52	38	—
	Malin Head ...	30.18	48	S	3	0	29.98	- .10	45	43	- 1	S	4	ag	2	52	42	—
	Mullaghmore ...	30.21	47	SW	2	b	29.96	- .17	48	45	+ 3	SSE	5	0	4	52	44	—
	Belmullet ...	30.18	48	SSW	2	b	29.91	- .24	47	46	- 1	S	3	or	*	52	41	0.04
	Donaghadee ...	30.26	43	WSW	2	b	30.12	- .05	48	46	+ 10	S	2	bc	0	52	36	—
	Liverpool (Bidston)	30.29	45	WNW	1	bc	30.14	- .02	43	42	- 3	SE	4	0	4	50	36	0.03
	Holyhead ...	30.28	45	Z	0	b	30.08	- .11	46	46	- 1	ESE	1	omg	1	53	39	0.02
	Parsonstown ...	30.26	40	Z	0	b	30.04	- .17	46	45	+ 13	Z	0	0	*	52	32	0.02
	Valencia ...	30.19	47	SE	3	bc	30.00	- .26	52	51	+ 11	SSE	5	om	5	52	40	0.07
	Roche's Point...	30.22	48	SSE	3	b	30.07	- .14	50	49	+ 8	SSW	3	c	4	51	42	—
FRANCE AND BELGIUM.	Pembroke (St. Ann's Hd.)	30.26	47	E	2	c	30.11	- .10	53	53	+ 6	SSW	4	rgm	4	54	47	0.14
	Scilly ...	30.20	50	E	2	r	30.11	- .09	52	52	+ 1	WSW	4	f	4	53	50	0.24
	Prawle Point ...	30.26	51	ESE	3	0	30.21	- .00	54	54	+ 8	SSW	5	ru	4	54	45	0.05
	Jersey (St. Aubin's)	30.28	53	NW	2	0	30.20	+ .10	55	53	+ 1	SE	3	cg	3	56	52	0.06
	Hurst Castle ...	30.29	48	NNE	2	0	30.26	+ .13	48	48	- 3	SSW	2	om	2	53	47	0.02
	Dungeness ...	30.25	51	NE	4	c	30.32	+ .22	51	50	- 4	ESE	3	0	2	58	50	0.01
	London ...	30.29	50	NE	1	0	30.28	+ .15	50	48	0	SE	1	0	*	53	47	—
	Oxford ...	30.32	42	N	1	0	30.26	+ .10	47	46	- 1	SE	2	ag	*	53	41	—
	Cambridge ...	30.29	41	N	1	c	30.29	+ .14	46	45	- 3	SE	1	c	*	54	36	—
	Yarmouth ...	30.27	47	N	1	bc	30.29	+ .22	45	44	- 4	NNE	1	bef	2	50	35	0.01
PENIN- SULA.	Cuxhaven ...	30.10	44	NW	3	0	30.25	+ .17	43	42	+ 1	W	2	m	*	49	42	0.06
	Berlin ...	30.11	49	W	3	r	30.25	+ .08	44	41	+ 2	WNW	4	b	*	50	41	0.04
	Wiesbaden ...	*	*	*	*	*	30.31	+ .07	49	49	+ 6	Z	0	0	*	50	43	—
	Munich ...	30.34	43	W	2	bc	30.34	+ .04	44	43	- 1	SW	3	bc	*	52	41	—
	The Helder ...	30.28	48	N	1	b	30.32	+ .31	38	37	- 13	S	1	bc	1	52	37	—
	Brussels (9 a.m.)	*	*	*	*	*	30.30	+ .13	46	46	- 6	ENE	1	r	*	57	45	0.04
	Cape Gris Nez	30.23	51	ENE	3	0	30.30	+ .19	46	45	- 8	E	2	0	1	55	45	0.04
	Paris ...	30.30	56	W	2	0	30.33	+ .08	51	50	- 3	N	1	0	*	59	51	0.04
	Brest ...	30.25	55	SE	2	0	30.20	- .01	54	53	+ 1	S	3	0	4	57	48	—
	Lorient ...	30.26	55	SSE	2	0	30.28	+ .09	52	52	- 2	S	2	f	5	57	52	—
GERMANY & HOLLAND.	Rochefort ...	30.34	55	SE	2	b	30.27	+ .04	48	47	- 4	E	1	b	?	61	41	—
	Belfort ...	30.08	46	E	1	0	30.08	?	42	35	+ 4	E	1	bc	*	52	38	—
	Lyons ...	30.30	53	NW	1	0	30.34	+ .04	46	46	- 3	NE	1	f	*	56	46	—
	Nice ...	30.20	51	E	5	b	30.23	+ .07	50	41	+ 2	E	4	b	0	63	48	—
	Perpignan ...	30.23	52	Z	0	b	30.30	+ .09	44	44	- 12	W	2	b	*	66	43	—
	Biarritz ...	30.24	58	E	3	b	30.28	+ .05	55	53	+ 5	S	3	0	3	64	50	—
	Corunna ...	*	*	*	*	*	30.26	+ .01	50	49	- 3	S	1	b	5	68	46	—
	Lisbon ...	30.25	60	NNW	4	b	30.26	+ .03	51	48	+ 1	NNE	3	bc	5	66	50	—

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, 16th November,

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:

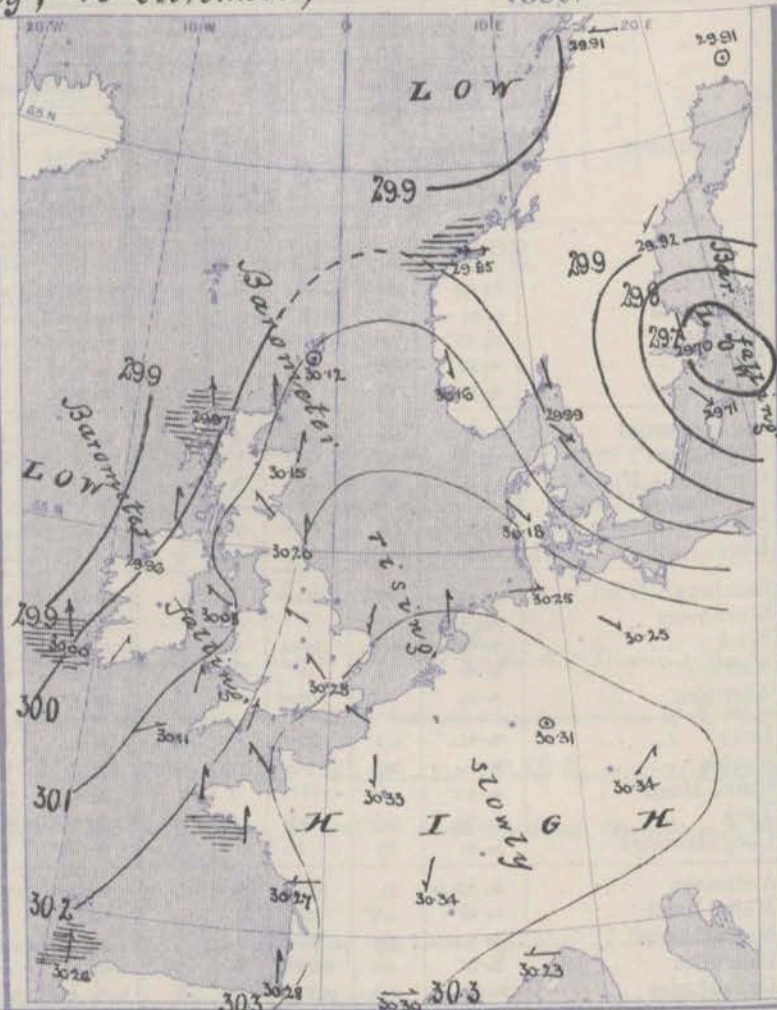
▨ = Rough. ▨ = High.

MEAN HEIGHT OF THE BAROMETER

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

During the 15 Years: 1871—1885.

STATIONS.	MEAN READINGS.
Sunbury Head	29.687
Stornoway	29.707
Wick	29.726
Nairn	29.743
Aberdeen	29.756
Leith	29.793
Shields	29.815
York	29.844
Loughborough	29.876
Ardrossan	29.795
Donaghadee	29.811
Holyhead	29.835
Liverpool	29.852
Parsonstown	29.848
Valencia	29.864
Roche's Point	29.864
Pembroke	29.862
Scilly	29.898
Jersey	29.923
Hurst Castle	29.898
Dover	29.893
LONDON	29.897
Oxford	29.893
Cambridge	29.885
Yarmouth	29.863



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.

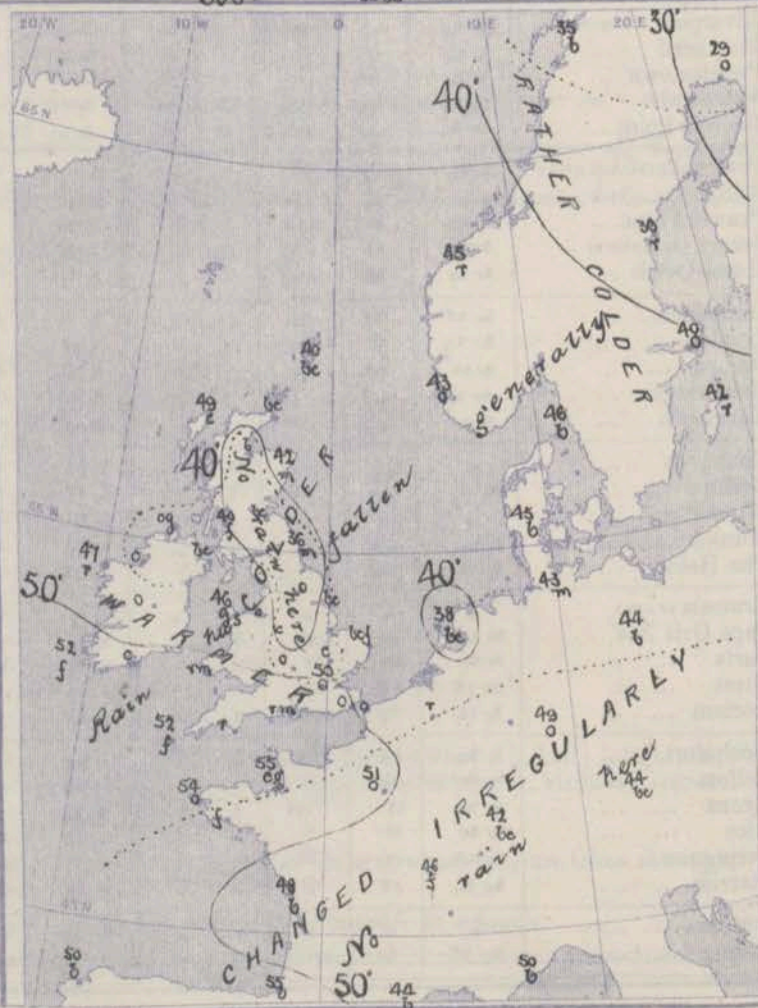
RAINFALL—A dotted line separates the districts in which rain has fallen from those where there has been none. Falls of 0.5 in. or more are quoted in figures.

MEANS OF TEMPERATURE IN SHADE, AND RAINFALL.

(For the month of November.)

STATIONS.	TEMPERATURE.				RAINFALL (Inches.)
	Daily Max.	Daily Min.	Dry, at 8 a.m.	Wet.	
Sunbury Head	45.3	37.4	41.5	39.8	4.24
Stornoway	45.7	36.7	41.0	39.9	4.60
Wick	45.7	35.7	40.9	39.3	2.97
Nairn	44.7	35.5	39.1	37.5	2.32
Aberdeen	46.1	36.3	40.3	38.5	3.16
Leith	48.2	36.7	41.2	39.6	2.11
Shields	47.1	38.1	41.8	40.2	2.03
York	47.7	36.1	40.3	39.0	2.21
Loughborough	48.0	36.4	40.2	38.9	2.30
Ardrossan	47.7	38.0	42.6	40.8	3.02
Donaghadee	48.2	39.2	42.9	41.7	3.13
Holyhead	49.7	42.8	45.6	43.8	3.71
Liverpool	47.7	39.5	42.1	40.4	2.87
Parsonstown	49.1	36.9	41.7	40.0	2.84
Valencia	52.4	42.7	47.2	45.2	5.50
Roche's Point	51.1	41.8	45.9	44.3	4.56
Pembroke	50.2	43.7	46.7	44.7	3.06
Scilly	52.5	46.7	50.0	48.0	3.76
Jersey	51.9	44.2	47.3	45.6	4.24
Hurst Castle	50.5	40.3	44.6	43.0	2.98
Dover	49.1	40.7	44.0	42.4	3.56
LONDON	49.6	37.9	42.0	40.5	2.11
Oxford	48.6	37.6	41.0	39.7	2.30
Cambridge	48.8	35.7	40.3	39.5	2.03
Yarmouth	47.5	39.1	42.0	41.8	3.15

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 France, the Netherlands, Western Germany, and the extreme south-east of England.
Lowest, 29.7 ins: and less, in a depression lying over the northern part of the Baltic; 30.0 ins: and less, in the extreme east of our Islands.

TEMPERATURE

Gradients slight. *Thermometer* falling over the greater part of the United Kingdom and also in the south of Sweden, but rising elsewhere.

Highest, 55° at Jersey and Biarritz, 54° at Hawke's Point and Brest, 53° at Lumbro, and 52° at Valencia Isl., Tilly, and Lorient.

Lowest, 29° at Haparanda, 35° at Rode, 36° at Helsingfors, Shields, and York, 37° at Limerick, and 38° at Loughborough.

During yesterday the thermometer rose to 56° at Jersey and 58° at Limerick.

WIND

S over the greater part of the United Kingdom and also in the west of France, fresh in force on our extreme western and northern coasts.

Moderate to strong from the N.W. over Denmark, North Germany, and the south of Scandinavia, but strong to a gale from N. at Christiania.

Light and variable over the Netherlands and the east of France.

WEATHER

Fine in the north and east of our Islands, as well as in Denmark, Holland, and Germany.

Dull elsewhere, with rain at some of our western and southern stations, and also at Maly and Brussels.

Since yesterday morning a little rain has fallen in the western, southern and extreme northern part of the United Kingdom.

SEA

Rather rough at Stromsø, Valencia Island, and Lorient, as well as at Rhodemas, but moderate to smooth elsewhere.

PROBABLE CHANGES IN SYSTEM NOW PREVALENT

FORECASTS

For the 24 hours ending at NOON on 17th November 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.

	BAR.	THER.		WIND		WEA.	SEA		BAR.	THER.		WIND		WEA.	SEA
		D.	W.	D.	F.					D.	W.	D.	F.		
Skudesnaes ...	29.88	48	45	WNW	6	c	4	Holyhead ...	30.46	50	47	WNW	1	b	2
Sumburgh Head ...	29.87	47	45	WNW	4	c	6	Valencia ...	30.24	52	49	SE	4	bm	4
Sternoway ...	30.04	49	46	W	4	bc	4	Scilly ...	30.23	52	51	NE	4	o	5
Aberdeen ...	30.10	49	44	SW	2	b	3	Jersey ...	30.27	55	51	WNW	3	bc	3
Shields ...	30.18	50	45	WNW	3	b	2	Dungeness ...	30.20	52	50	NNE	4	o	3
Ardroes ...	30.18	50	49	SW	3	c	3	London ...	30.26	52	48	NNE	1	c	8
Mull Head ...	30.15	49	48	SW	4	a	3	Yarmouth ...	30.21	50	49	N	3	c	2
Mullaghmore ...	30.10	52	47	SSW	4	b	3	Rocheport ...	30.27	59	59	2	o	bc	2
Belmullet ...	30.19	53	50	SSW	2	b	*								

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

Weather in morning fine and bright over the Iberian Peninsula and in many parts of the British Isles and Norway; dull elsewhere, and in most places unsettled. Fog very prevalent at the Baltic and Finnish stations, as well as in many parts of Austria and the south of France, snow over Russia, rain at some Austrian stations. Rain falling later over Northern Europe and the west of our Islands generally, but no material quantity over Central or Southern Europe.

Temperature changing very fitfully over the British Islands—fallen fast in west, risen in east, not altering very much elsewhere. Morning readings exceeding 60° in Algiers and Malta, and exceeding 50° at the Mediterranean stations, on the Atlantic coast of Portugal, France, and over the English Channel. Much lower (below 40°) over northern, eastern, and central Europe, and as low as 20° at Moscow, 29° at Kharkov, 31° at Archangel, 32° at Kiev, 33° at Vienna, 34° at Uleaborg and Kuopio, 38° at Prague and Brest. Rising to between 55° and 65° over Western and south-western Europe later, as well as over the southern parts of Italy.

Wind very variable and light over Central and Eastern Europe; strong from the SW on the eastern shores of the North Sea, light N over England, light S on our extreme north-western coast. N to NW over Italy, calm on the Mediterranean coasts of France and Spain. Becoming S over Ireland later, but veering to the NW on the eastern shores of the North Sea and falling light.

Barometer highest 30.3 ins. (and more) to 30.2 ins. in a broad band extending from the Atlantic across France, Germany, Austria, and Poland to Russia. Lowest 29.7 ins. and less, in a depression lying between Norway and the Shetlands, and about 30.0 ins. in a large shallow area over the south-eastern parts of the Mediterranean. Northern depression advancing over Scandinavia later but fresh fall of barometer setting in over west of our Islands.

EXPLANATION OF COLUMNS GIVEN ON PAGE 1.

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

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

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

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

DAILY WEATHER REPORT.

for *Monday, 17th November,* 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 5.)	SHADE TEMP.		Amount of Rainfall.
	Reading at 3 ²⁰ P. and Sea Level.	Dry.	Dirac.	Force. (0 to 12.)		Reading at 3 ²⁰ P. and Sea Level.	Difference from 8 a.m. yesterday.	Dry.	Wet.	Difference from 8 a.m. yesterday.	Dirac.	Force. (0 to 12.)			Max.	Min.	
SCANDINAVIA.																	
Haparanda ...	30.00	30	N	2	0	30.08	+ 13	28	27	- 1	NE	2	0	*	32	25	-
Hernösand ...	30.10	34	NNE	2	0	30.23	+ 31	31	30	- 5	N	2	0	*	41	?	-
Stockholm ...	29.99	40	NNE	2	0	30.18	+ 18	37	36	- 3	NNE	2	0	*	43	36	0.08
Wisby ...	29.95	44	NW	4	6	30.09	+ 38	41	39	- 1	NNE	4	0	*	45	39	0.12
Bodö ...	30.07	33	E	2	0	30.13	+ 22	37	36	+ 2	SE	4	0	2	?	32	0.08
Christiansund	30.12	43	NW	4	7	30.21	+ 26	40	39	- 5	ESE	1	6c	3	?	39	0.32
Skudesnaes ...	30.15	43	Z	0	0	30.23	+ 07	42	39	- 1	ESE	2	0	2	48	39	-
Christiania Fjord (Færdier)	30.13	43	NW	3	6	30.23	+ 27	36	34	- 9	NNE	3	6	1	46	36	-
Skagen (The Scaw)	30.15	44	N	1	6	30.20	+ 21	36	36	- 10	Z	0	6	0	48	34	-
Fanö ...	30.21	43	Z	0	6c	30.19	+ 01	41	41	- 4	Z	2	0	*	50	39	-
BRITISH ISLANDS.																	
Sumburgh Head	29.98	47	SSW	3	7	30.15	+ 03	45	43	+ 5	Z	0	0	2	48	39	0.03
Stornoway ...	29.92	47	W	4	6	30.12	+ 15	47	45	- 2	SW	4	0	4	49	37	0.05
Wick ...	29.99	43	S	4	7	30.12	+ 04	39	37	- 7	S	2	6c	2	47	36	0.10
Nairn ...	29.95	43	SE	2	0	30.22	+ 14	34	33	- 3	SW	1	6c	1	45	33	0.02
Aberdeen ...	30.02	41	SW	2	0	30.28	+ 13	35	34	- 7	W	1	6m	3	47	35	0.12
Leith ...	30.05	42	SE	1	0	30.29	+ 17	34	34	- 4	NW	1	f	*	44	33	0.09
Shields ...	30.03	43	SSW	2	dm	30.29	+ 09	40	40	+ 4	SSW	1	f	2	48	35	-
Spurn Head ...	30.14	47	SSW	4	0	30.33	+ 08	42	41	- 1	W	3	f	3	49	40	0.01
York ...	30.15	48	S	2	6	30.35	+ 11	35	35	- 1	Z	0	f	*	50	34	0.05
Loughborough	30.19	32	SW	2	6c	30.38	+ 13	43	43	+ 5	NNE	1	f	*	53	36	0.02
Ardrossan ...	30.06	50	SW	2	6c	30.26	+ 15	40	39	0	ESE	2	6cm	2	50	39	0.13
Malin Head ...	30.07	48	W	3	6	30.09	+ 11	46	44	+ 1	SSE	4	0	2	50	40	0.10
Mullaghmore ...	30.12	50	NW	3	6	30.12	+ 16	50	46	+ 2	ESE	5	0	3	52	40	0.14
Belmullet ...	30.13	47	W	1	6	30.04	+ 13	45	44	- 2	ESE	3	0	*	52	43	0.14
Donaghadee ...	30.13	48	SW	2	6c	30.26	+ 14	39	38	- 9	S	3	0	1	51	32	0.01
Liverpool (Bidston)	30.10	49	NW	2	0	30.33	+ 19	41	41	- 2	SE	2	f	2	53	40	0.01
Holyhead ...	30.15	53	SW	4	0	30.28	+ 20	49	49	+ 3	S	1	0	1	55	41	0.01
Parsonstown ...	30.17	43	Z	0	6	30.18	+ 11	48	47	+ 2	Z	0	0	*	52	36	0.01
Valencia ...	30.19	46	Z	0	6	30.13	+ 13	52	51	0	SSE	7	0	6	56	45	0.04
Roche's Point...	30.18	47	NW	1	6c	30.21	+ 14	51	51	+ 1	S	5	f	4	53	41	0.12
Pembroke (St. Ann's Hd.)	30.23	50	NW	3	0	30.30	+ 19	51	51	- 2	SSW	4	0	4	53	50	0.03
Scilly ...	30.23	53	SW	3	f	30.28	+ 17	54	54	+ 2	S	3	f	3	56	50	0.01
Prawle Point ...	30.27	52	NW	3	0	30.37	+ 16	51	51	- 3	Z	0	f	0	54	45	0.06
Jersey (St. Aubin's)	30.31	56	SW	3	0	30.40	+ 16	55	54	0	SW	2	0	2	59	54	0.01
Hurst Castle ...	30.26	54	SW	2	md	30.40	+ 14	45	45	- 13	E	1	f	2	58	41	0.03
Dungeness ...	30.25	55	SW	4	0	30.36	+ 04	43	43	- 2	N	2	m	2	55	43	0.05
London ...	30.22	55	NW	1	0d	30.38	+ 10	43	43	- 7	Z	0	f	*	55	41	0.01
Oxford ...	30.27	49	Z	0	6	30.40	+ 14	39	39	- 8	Z	0	f	*	55	38	0.01
Cambridge ...	30.29	54	E	1	0	30.38	+ 09	40	40	- 6	NW	1	0	*	54	39	0.03
Yarmouth ...	30.21	47	S	4	0	30.33	+ 04	41	40	- 4	NNE	2	f	2	50	38	0.04
GERMANY & HOLLAND.																	
Cuxhaven ...	30.27	41	W	1	0	30.20	- 05	39	38	- 4	S	2	6c	*	49	?	0.16
Berlin ...	30.25	42	NNE	4	6	30.24	- 01	38	37	- 6	NW	3	0	*	48	37	-
Wiesbaden ...	*	*	*	*	*	30.27	- 04	50	49	+ 1	Z	0	0	*	54	46	0.12
Munich ...	30.34	45	SW	1	0	30.33	- 01	45	45	+ 1	SW	5	0	*	52	?	0.12
The Helder ...	30.28	37	SE	1	7	30.26	- 07	49	47	+ 11	NW	2	0	3	50	37	0.08
FRANCE AND BELGIUM.																	
Brussels (8 a.m.)	*	*	*	*	*	30.36	+ 06	50	48	+ 4	NNE	2	6c	*	57	45	0.04
Cape Gris Nez	30.28	52	SW	2	6	30.42	+ 09	45	45	- 6	S	1	0	2	59	39	-
Paris ...	30.37	52	S	1	0	30.35	+ 15	55	54	+ 1	S	3	0	4	57	46	-
Brest ...	30.26	57	W	3	0	30.40	+ 12	49	49	- 3	Z	0	f	4	57	48	-
Lorient ...	30.32	55	S	1	5	30.40	+ 12	49	49	- 3	Z	0	f	4	57	48	-
Rochefort ...	30.32	55	N	2	6	30.37	+ 10	50	50	+ 2	SE	2	f	*	61	41	-
Belfort ...	30.36	48	E	1	5	30.36	?	38	35	- 4	E	1	0	*	53	34	-
Lyons ...	30.42	30	NNE	1	0	30.39	+ 05	49	48	+ 3	N	3	0	*	52	44	-
Nice ...	30.23	51	Z	0	6	30.23	00	47	41	- 3	E	3	0	1	61	46	-
Perpignan ...	30.29	54	W	2	6	30.33	+ 03	44	43	0	W	2	6	*	65	40	-
Biarritz ...	30.33	56	ESE	3	0	30.34	+ 06	51	49	- 4	ESE	3	0	2	61	48	-
PENINSULA.																	
Corunna ...	*	*	*	*	*	30.31	+ 05	51	48	0	NNE	4	6	5	68	50	-
Lisbon ...	30.24	63	N	3	6	30.31	+ 05	51	48	0	NNE	4	6	5	68	50	-

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

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

WEATHER CHARTS

for 8 a.m. on

Monday, 17th November,

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:

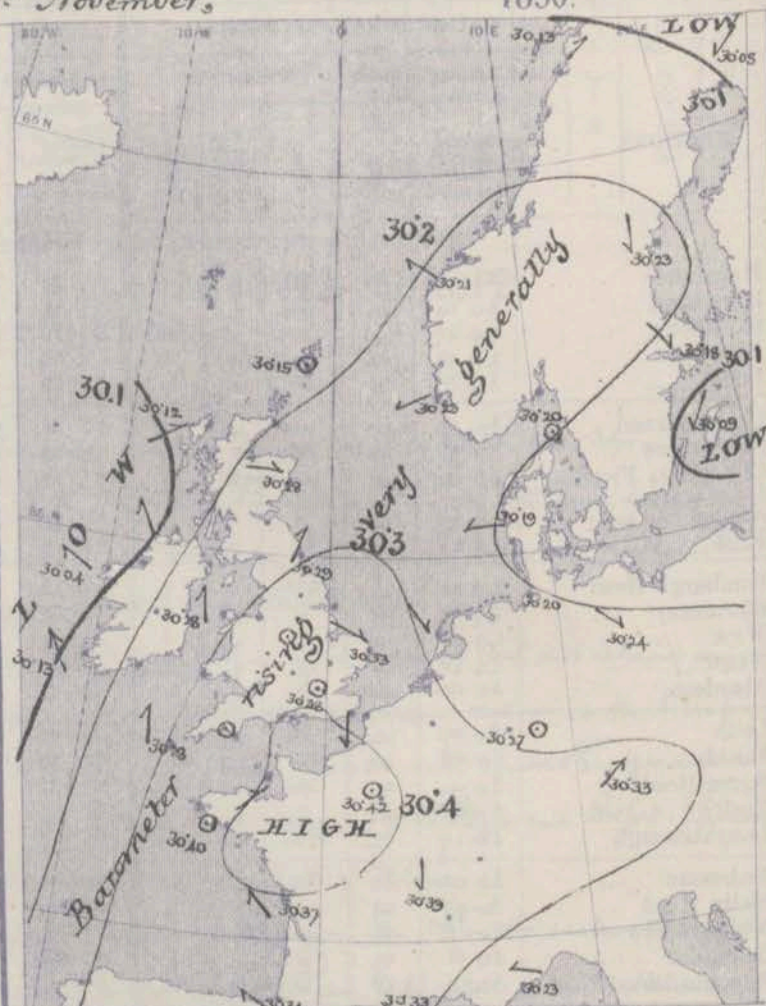
▨ = Rough. ▨ = High.

MEAN HEIGHT OF THE BAROMETER

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

During the 15 Years, 1871—1885.

STATIONS.	MEAN READINGS.
Sumburgh Head	29.687
Stornoway	29.707
Wick	29.720
Nairn	29.743
Aberdeen	29.756
Leith	29.793
Shields	29.815
York	29.841
Loughborough	29.876
Ardrossan	29.795
Donaghadee	29.811
Holyhead	29.835
Liverpool	29.852
Parsonstown	29.848
Valencia	29.864
Roche's Point	29.864
Pembroke	29.862
Scilly	29.898
Jersey	29.923
Hurst Castle	29.898
Dover	29.893
LONDON	29.897
Oxford	29.893
Cambridge	29.885
Yarmouth	29.863



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.

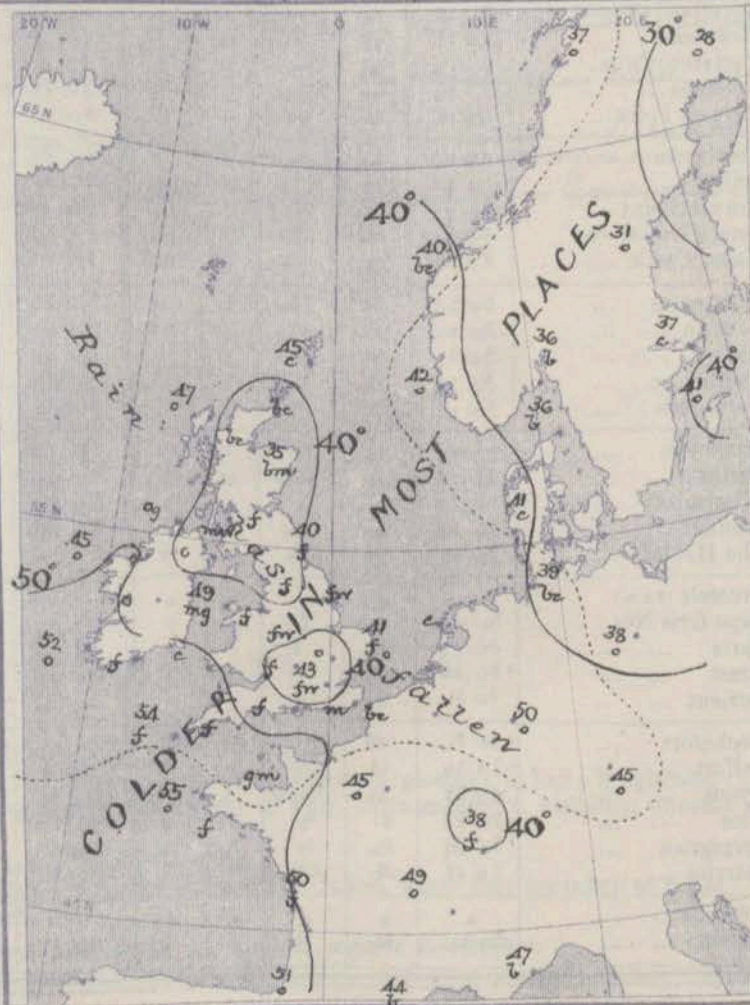
RAINFALL—A dotted line separates the districts in which rain has fallen from those where there has been none. Falls of 0.5 in. or more are quoted in figures.

MEANS OF TEMPERATURE IN SHADE, AND RAINFALL.

(For the month of November.)

STATIONS.	TEMPERATURE.				RAINFALL. (Inches.)
	Daily Max.	Daily Min.	Daily at 8 a.m.	Wind.	
Sumburgh Head	45.3	37.4	41.5	39.8	4.24
Stornoway	45.7	35.7	41.0	39.9	4.60
Wick	45.7	35.7	40.9	39.3	2.97
Nairn	44.7	35.5	39.1	37.5	2.32
Aberdeen	46.1	36.3	40.3	38.5	3.16
Leith	48.2	36.7	41.2	39.6	2.11
Shields	47.1	38.1	41.8	40.2	2.63
York	47.7	36.1	40.5	39.0	2.21
Loughborough	48.0	36.4	40.2	38.9	2.30
Ardrossan	47.7	35.9	42.6	40.8	3.92
Donaghadee	48.2	39.2	42.9	41.7	3.13
Holyhead	49.7	42.8	45.5	43.8	3.71
Liverpool	47.7	39.5	42.1	40.4	2.87
Parsonstown	49.1	36.9	41.7	40.0	2.84
Valencia	52.4	42.7	47.2	45.2	5.50
Roche's Point	51.1	41.8	45.9	44.3	4.56
Pembroke	50.2	43.7	46.7	44.7	3.98
Scilly	52.5	46.7	50.0	48.0	3.79
Jersey	51.9	44.2	47.5	45.6	4.24
Hurst Castle	50.5	40.3	44.6	45.0	2.98
Dover	49.1	40.7	44.0	42.4	3.56
LONDON	49.6	37.9	42.0	40.5	2.11
Oxford	48.6	37.6	41.0	39.7	2.30
Cambridge	48.8	35.7	40.3	39.5	2.02
Yarmouth	47.5	39.1	42.9	41.8	3.15

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



GENERAL SITUATION AT 8 A.M.

PRESSURE	Highest, 30.3 ins. to 30.4 ins. or more in an anticyclone covering England, France, Spain, and South Germany. Lowest, 30.1 and less, in the extreme west of our Islands and also over the Baltic.
TEMPERATURE	Gradients slight. Barometer rising generally, but rather unsteady in the west of Ireland. Highest, 55° at Jersey and Brest, 54° at Scilly, 52° at Valence Island, and 51° at Rock Point, Pembroke, Howle Point, Haritz and Lisbon. Lowest, 47° at Brest , 28° at Haparanda, 31° at Helsingfors, 34° at Kain and Leth, and 35° at Aberdeen and York. During yesterday the thermometer rose to 56° at Scilly, 58° at Hunt Castle and 59° at Jersey.
WIND	S or SE in the west of our Islands, with a moderate gale at Valence Island. Light from SW. or W. on the northeast coasts of Great Britain, and from the NW in the southeast. Light from the NW in Sweden; variable over Norway, Denmark, Germany, and the greater part of France.
WEATHER	Foggy at many of the English and French stations, but fine over the greater part of Scotland, as well as in Denmark and the south of France. Dull in the extreme west of our Islands and also in Scandinavia and Denmark. Light rain fell yesterday in nearly all parts of the United Kingdom.
SEA	Moderate to smooth generally.

PROBABLE CHANGES IN SYSTEM NOW PREVALENT

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

FORECASTS

For the 24 hours ending at NOON on 18th Nov^r 1890.

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

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

YESTERDAY'S 2 P.M. REPORTS.

	BAR:	THER:		WIND		WEA.	SEA		BAR:	THER:		WIND		WEA.	SEA
		D.	W.	D.	F.					D.	W.	D.	F.		
Skudesnaes ...	30.20	48	44	E	1	C	2		Holyhead ...	30.08	54	51	SW	14	C
Sumburgh Head ...									Valencia ...						
Stornoway ...	29.85	48	47	S	7	O	6		Scilly ...						
Aberdeen ...									Jersey ...	30.30	59	57	SSW	3	bc
Shields ...									Dungeness ...	30.26	55	52	SW	3	O
Ardrossan ...									London ...						*
Malin Head ...	29.96	48	47	SW	3	O	2		Yarmouth ...						
Mullaghmore ...									Rocheport ...	30.32	60	58	NE	3	6
Belmullet ...	30.03	51	49	NEW	2	O	*								

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

Weather in morning fine and bright over the Mediterranean, southwestern Europe, Switzerland and S. Germany, also in many parts of Scotland, and the extreme north of Norway, dull elsewhere and unsettled in many places. Rain falling at several of the Baltic stations and also in the extreme west of Ireland, snow at Archangel and Moscow, fog or haze reported in several parts of our Islands. Rain at times during day over the British Islands and NWth Europe generally, but not in large quantities.

Temperature fallen fast over central Russia, risen over eastern Germany and Poland, changing irregularly. Morning readings exceeding 50° over the southern and western parts of the Mediterranean, as well as over the Atlantic coasts of Spain, many parts of France, and the southern and southwestern coasts of the British Islands; as high as 60° at Algiers. As low as 28° at Kharkov, 29° at Moscow and Haparanda, 32° at Kiev, and 33° at St. Petersburg, and below 40° over the N. and NE. of England. Rising to between 50° and 59° over the British Islands later, and to upwards of 60° in the southwest of France.

Wind Sth over the British Islands and on the Atlantic coasts of France and Spain, but not strong; NWth on the eastern shores of the North Sea and Baltic, Wth and NWth over North Germany, Sth over the Baltic Provinces and Gulf of Finland. Very variable elsewhere, and of little strength over the Continent generally. Veering towards W. in Ireland and Brittany later, but remaining very light.

Barometer highest 30.4 ins. to 30.2 ins. in an anticyclone of irregular form, covering the Iberian Peninsula, France, western Germany and the eastern half of England; lowest 29.7 ins. and less in a depression over the Baltic, about 29.9 ins. off our northwestern coasts, and rather below 30.1 ins. over the southern parts of Italy. Gradients moderate to slight and very variable. Decided recovery taking place at Irish stations later, but a fall over Norway and the Shetland Islands.

SUMMARY OF CHANGES IN THE WEATHER OVER THE BRITISH ISLANDS AND THEIR NEIGHBOURHOOD FROM THE 9th TO 15th NOVEMBER 1890.

The weather of the past week has remained in a very disturbed state, with slight gales on many parts of our coasts, and heavy rains at some of the western and northern stations.

During the greater part of the time barometrical pressure has been high over Spain and also over northern Europe, so that the general distribution has been of a somewhat complex nature. Several depressions have passed over our western and northern coasts, and in many instances secondary disturbances have moved eastward or north-eastward over England.

The first depression, - one of a secondary character - travelled across our Islands on the 9th and occasioned heavy rain in the west and north. The accompanying winds were, however, of no great strength.

The second - a rather deep primary system - advanced to the north of Ireland on the night of the 10th and afterwards travelled away again in a northwesterly direction. Strong winds or gales were experienced in nearly all districts, from SE. in the N., but from SW or W in the west and south.

The third depression passed in a NNEth direction along our extreme west coasts on the 12th and produced Sth gales in several parts of the western and northern districts, with general, though not heavy, rainfall.

The fourth appeared off the west of Ireland on the morning of the 14th, and also travelled NNEth occasioning Sth gales in the east of Scotland and rain in all parts of the Kingdom.

At the close of the week an anticyclone was moving eastwards across our Islands and the winds were light and somewhat variable. Fresh disturbances seemed likely, however, to pass along our west coasts before long.

Temperature has been mostly above the average, but frost was experienced over the inland parts of the Kingdom on the night of the 9th, 11th and 13th. On the night of the 14th the thermometer in London was as high as 56° 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 18th November. 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.			Barometer.	Shade Temp.	Wind.							Shade Temp.			
	Reading at 32° F. and Sea Level.	Dry.	Dir.	Force (0 to 12).	Weather.	Reading at 32° F. and Sea Level.	Difference from 8 a.m. yesterday.	Dry.	Wet.	Difference from 8 a.m. yesterday.	Dir.	Force (0 to 12.)	Weather.	Sea (0 to 12.)	Max.	Min.	Amount of Rainfall.	
SCANDINAVIA.																		
Haparanda ...	30.14	21	N	4	bc	30.30	+22	21	21	7	NE	4	0	*	32	12	—	
Hernösand ...	30.28	30	N	0	b	30.30	+07	26	26	5	N	0	0	*	37	9	—	
Stockholm ...	30.34	33	N	0	0	30.32	+14	31	31	6	W	2	0	*	43	31	—	
Wisby ...	30.23	41	NW	6	C	30.26	+17	41	38	0	NNW	4	0	*	45	36	—	
Bodo ...	30.21	41	SW	4	0	30.14	+09	37	35	0	E	4	P	2	41	36	0.32	
Christiansund	30.25	39	SE	2	C	30.11	-10	42	39	+2	SE	2	0	3	43	37	—	
Skudesnaes ...	30.33	45	SE	2	0	30.19	-04	47	45	+5	SE	4	0	3	43	43	—	
Christiania Fjord (Fæder)	29.96	37	NNW	2	b	30.29	+06	34	33	-2	NNW	2	C	1	39	34	—	
Skagen (The Scaw)	30.34	40	NE	1	b	30.32	+12	40	39	+4	SW	1	C	1	43	34	—	
Fanø ...	30.38	34	S	2	m	30.34	+15	40	40	-1	S	4	0	*	46	30	0.08	
Sumburgh Head	30.12	46	SE	3	bc	30.03	-12	49	47	+4	W	2	C	3	52	41	0.05	
Stornoway ...	29.58	51	SW	8	0	30.11	-01	45	43	-2	SW	4	C	4	52	43	0.06	
Wick ...	30.08	44	S	4	0	30.16	+04	41	40	+2	W	2	bc	1	49	38	0.01	
Nairn ...	?	?	N	0	b	30.14	-08	45	43	+11	SW	1	bc	1	51	33	0.08	
Aberdeen ...	30.20	42	SE	2	bc	30.20	-08	42	41	+7	WNW	1	bc m	3	47	35	0.24	
Leith ...	30.22	44	SW	1	C	30.22	-07	48	48	+14	WNW	1	0	*	53	34	0.14	
Shields ...	30.28	44	S	2	C	30.24	-05	51	50	+11	WNW	2	bc	2	53	33	0.03	
Spurn Head ...	30.35	39	S	3	f	30.27	-06	49	48	+7	SW	3	om	3	49	37	0.01	
York ...	30.33	38	N	0	f	30.30	-05	51	50	+16	W	1	0	*	51	33	0.02	
Loughborough	30.37	49	SW	2	C	30.34	-04	51	50	+8	WNW	2	0	*	51	40	—	
BRITISH ISLANDS.																		
Ardrossan ...	30.18	51	S	5	d	30.24	-02	50	50	+10	2	0	bc m	1	51	40	0.41	
Malin Head ...	30.01	51	S	5	opp	30.22	+13	48	47	+2	S	1	0	1	52	46	0.30	
Mullaghmore ...	30.05	54	SW	5	of	30.23	+11	49	48	-1	S	1	C	3	53	47	0.12	
Belmullet ...	30.01	51	S	6	0	30.20	+16	50	50	+5	S	1	of	*	53	44	0.05	
Donaghadee ...	30.19	51	SW	3	0	30.26	0.0	48	47	+9	SW	3	bc	1	53	38	0.19	
Liverpool (Bidston)	30.31	48	SE	3	C	30.31	-02	52	51	+11	WNW	2	0	2	54	41	0.02	
Holyhead ...	30.26	52	S	3	dm g	30.31	+03	53	53	+4	WNW	2	om g	2	54	49	0.10	
Parsonstown ...	30.14	55	N	0	P	30.28	+10	53	52	+5	2	0	0	*	56	47	0.08	
Valencia ...	30.11	53	SW	7	P	30.30	+17	53	53	+1	2	0	om	1	55	47	0.37	
Roche's Point...	30.20	53	S	5	P g	30.31	+10	51	51	0	S	3	P f	4	55	50	0.30	
Pembroke (St. Ann's Hd.)	30.31	54	SW	4	C	30.34	+04	54	54	+3	SW	4	dm	4	54	50	0.06	
Scilly ...	30.29	54	S	4	0	30.39	+11	54	53	0	SW	4	0	4	56	51	—	
Prawle Point ...	30.40	51	W	3	0	30.43	+06	53	52	+2	W	4	0 g	3	54	50	0.03	
Jersey (St. Aubin's)	30.45	52	SW	3	om g	30.50	+10	52	50	-3	SW	3	om g	3	53	49	—	
Hurst Castle ...	30.42	52	SE	2	od	30.44	+04	53	52	+8	WNW	3	C	2	54	44	—	
Dungeness ...	30.39	51	W	2	b	30.41	+05	53	51	+10	NNW	3	C	2	58	42	0.02	
London ...	30.41	46	SW	1	bf	30.38	0.0	52	50	+9	SW	2	0	*	54	42	—	
Oxford ...	30.43	47	W	1	0	30.40	0.0	51	50	+12	SW	2	0 g	*	51	39	—	
Cambridge ...	30.39	45	W	1	0	30.38	0.0	50	49	+10	S	1	0	*	50	38	0.01	
Yarmouth ...	30.38	42	N	0	f	30.36	+03	48	47	+7	WNW	2	C f	2	48	38	0.01	
GERMANY & HOLLAND.																		
Cuxhaven ...	30.30	39	E	1	m	30.42	+22	34	34	-5	S	2	0	*	44	34	0.04	
Berlin ...	30.36	41	NNW	2	0	30.46	+22	38	37	0	NW	2	0	*	45	36	—	
Wiesbaden ...	30.37	43	N	2	P	30.47	+20	40	39	-10	2	0	0	*	54	37	—	
Munich ...	30.37	43	N	2	P	30.46	+13	42	42	-3	NW	4	0	*	50	41	0.39	
The Helder ...	30.40	40	NNW	1	b	30.37	+11	44	43	-5	S	1	f	1	50	43	—	
FRANCE AND BELGIUM.																		
Brussels (9 a.m.)	30.41	51	N	0	m	30.47	+07	44	44	0	SW	1	0	*	53	39	—	
Cape Gris Nez	30.45	52	SE	1	0	30.43	+07	47	47	+2	NW	4	0	3	52	43	0.04	
Paris ...	30.43	54	S	3	0	30.49	+07	47	47	+2	2	0	0	*	54	43	—	
Brest ...	30.43	54	S	3	0	30.51	+11	49	48	-1	WNW	3	0	4	53	48	—	
Lorient ...	30.44	48	SE	2	m	30.51	+11	49	48	0	SE	1	0	4	53	46	—	
Rochefort ...	30.41	51	NE	3	m	30.50	+13	45	45	-5	SE	2	0	2	55	39	—	
Belfort ...	30.30	50	N	1	f	30.47	+08	43	43	+5	W	1	0	*	54	34	—	
Lyons ...	30.39	50	N	3	b	30.47	+08	44	43	-5	N	2	0	*	55	43	—	
Nice ...	30.20	49	E	4	f	30.20	-03	51	43	+4	E	1	0	1	59	45	—	
Perpignan ...	30.32	53	SW	2	b	30.32	-01	54	47	+10	NW	3	0	*	64	45	—	
Biarritz ...	30.36	53	NE	3	b	30.44	+10	48	47	-3	SE	3	0	2	61	46	—	
PENIN- SULA.																		
Corunna ...	30.33	62	NW	3	f	30.35	+04	53	48	+2	NNE	2	0	5	68	4	—	
Lisbon ...	30.33	62	NW	3	f	30.35	+04	53	48	+2	NNE	2	0	5	68	4	—	

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, 18th November,

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:

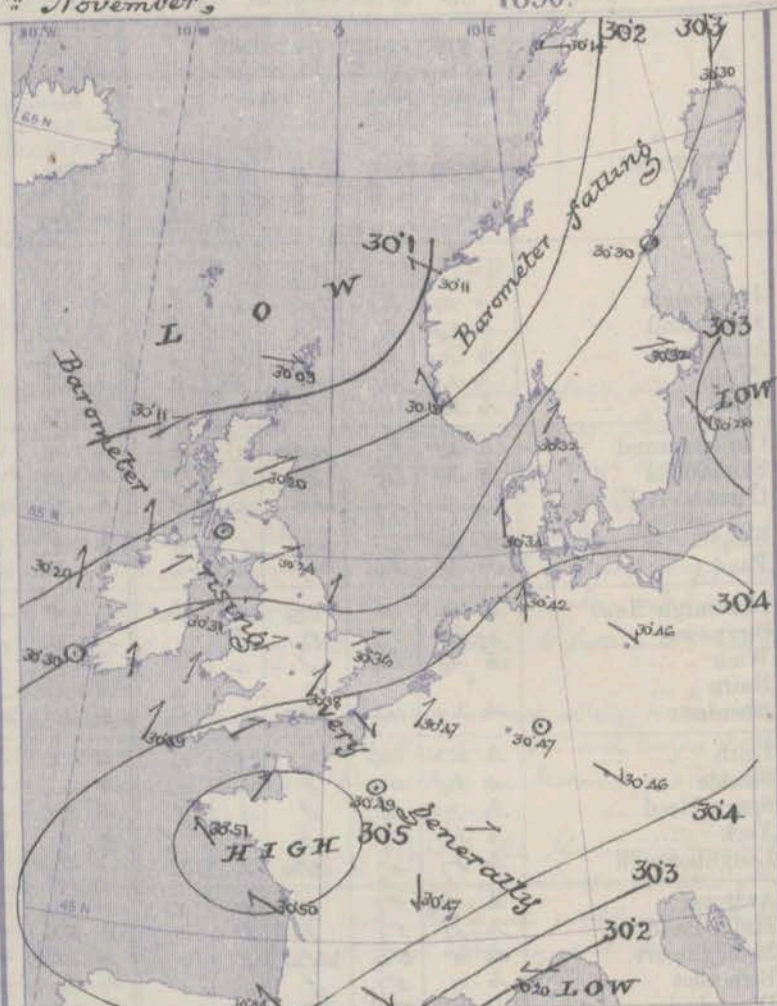
▨ = Rough. ▨ = High.

MEAN HEIGHT OF THE BAROMETER

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

During the 15 Years, 1871—1885.

STATIONS.	MEAN READINGS.
Sumburgh Head	29.687
Stornoway	29.707
Wick	29.726
Nairn	29.743
Aberdeen	29.756
Leith	29.798
Shields	29.815
York	29.841
Loughborough	29.876
Ardrossan	29.795
Donaghadee	29.841
Holyhead	29.835
Liverpool	29.852
Parsonstown	29.848
Valencia	29.864
Roche's Point	29.861
Pembroke	29.862
Seilly	29.898
Jersey	29.923
Hurst Castle	29.898
Dover	29.893
LONDON	29.897
Oxford	29.893
Cambridge	29.885
Yarmouth	29.863



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.

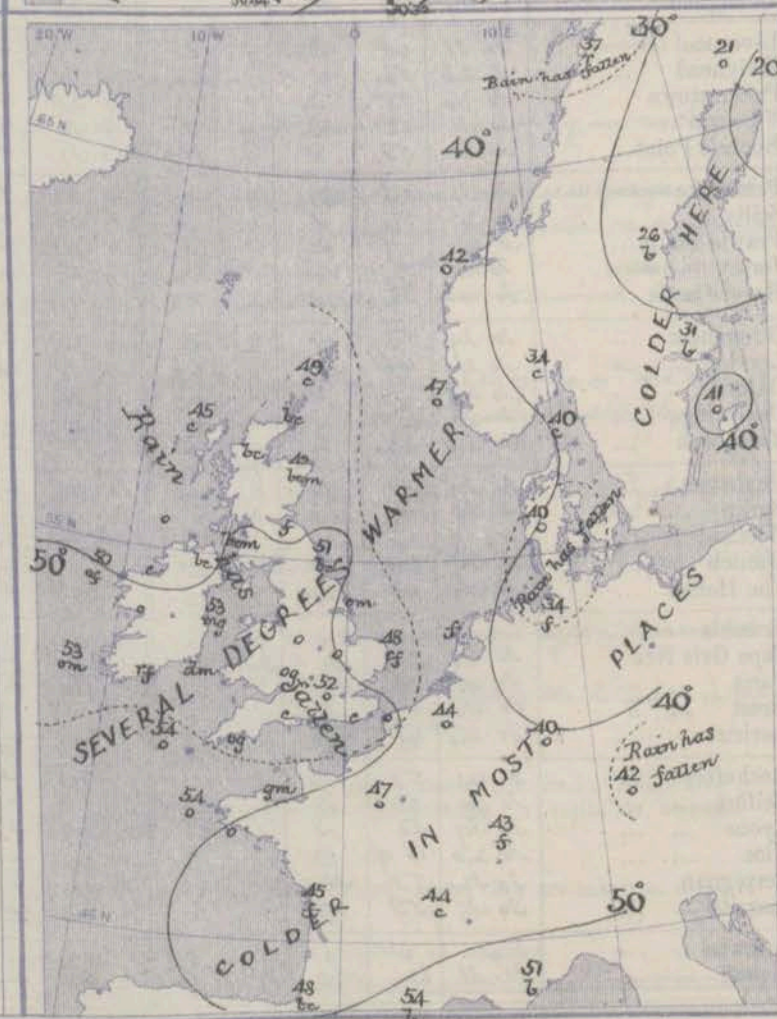
RAINFALL—A dotted line separates the districts in which rain has fallen from those where there has been none. Falls of 0.5 in. or more are quoted in figures.

MEANS OF TEMPERATURE IN SHADE, AND RAINFALL.

(For the month of November.)

STATIONS.	TEMPERATURE.				RAINFALL (Inches.)
	Daily Max.	Daily Min.	at 8 a.m.	at 8 a.m.	
			Dry.	Wet.	
Sumburgh Head	46.3	37.4	41.5	39.8	4.24
Stornoway	45.7	36.7	41.0	39.9	4.60
Wick	45.7	35.7	40.9	39.3	2.97
Nairn	44.7	35.5	39.1	37.5	2.32
Aberdeen	46.1	36.3	40.3	38.5	3.16
Leith	48.2	36.7	41.2	39.6	2.11
Shields	47.1	38.1	41.8	40.2	2.63
York	47.7	36.1	40.3	39.0	2.21
Loughborough	48.0	36.4	40.2	38.9	2.30
Ardrossan	47.7	35.9	42.6	40.8	3.92
Donaghadee	48.2	39.2	42.0	41.7	3.13
Holyhead	49.7	42.8	45.5	43.8	3.71
Liverpool	47.7	39.5	42.1	40.4	2.87
Parsonstown	49.1	39.9	41.7	40.0	2.84
Valencia	52.4	42.7	47.2	45.2	5.50
Roche's Point	51.1	41.8	45.9	44.3	4.56
Pembroke	50.2	43.7	46.7	44.7	3.96
Seilly	52.5	46.7	50.0	48.0	3.76
Jersey	51.9	41.2	47.5	45.6	4.24
Hurst Castle	50.5	40.3	44.6	43.0	2.98
Dover	49.1	40.7	44.0	42.4	3.56
LONDON	49.6	37.9	42.0	40.5	2.14
Oxford	48.6	37.6	41.0	39.7	2.30
Cambridge	48.8	35.7	40.3	39.5	2.02
Yarmouth	47.5	39.1	42.9	41.8	3.15

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	<p>Highest, 30.4 ins: to 30.5 ins: and more over the Bay of Biscay, France, Germany, and extreme south of England.</p> <p>Lowest, 30.1 ins: and less, in a shallow area lying to the northward of our Islands.</p> <p>Gradients slight. Barometer rising generally, but falling slightly on the eastern shores of the North Sea.</p>
TEMPERATURE	<p>Highest, 54° at Pembroke, Lally, Brest, and Carpienaw, and 53° at Brestonow, Holthead, Kelenes Island, Poulabint, Hunt Castle, Dungeness, and Lator.</p> <p>Lowest, 21° at Haparandis, 26° at Herivandis, 31° at Stockholm, 34° at Vanki and Cshaven, and 37° at Rorö.</p> <p>The highest maxima registered over our Islands yesterday were 58° at Dungeness, and 56° at Brestonow.</p>
WIND	<p>Light from the SWnd in our Islands, from the Snd on the eastern shores of the North Sea, and from the End in the north of Scandinavia.</p> <p>Light from SE. in the west of France and from the NWnd in Germany.</p>
WEATHER	<p>Fine in the north of our Islands and also in Sweden and the south of France.</p> <p>Dull elsewhere, with fog or mist in many places, and rain at the mouth of St George's Channel.</p> <p>Rain fell yesterday in most parts of the United Kingdom, but the amounts were generally slight.</p>
SEA	<p>Moderate at some of our southwestern stations, but slight or smooth elsewhere.</p>

PROBABLE CHANGES IN SYSTEM NOW PREVALENT

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

FORECASTS

For the 24 hours ending at NOON on 19th Nov^r 1890.

DISTRICTS.

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

FORECASTS.

SW^{ly} winds, moderate or fresh; fair to dull and some fog

SW^{ly} winds, light; fair generally, but local fogs.

Light breezes, chiefly SW^{ly}; cloudy, some mist or fog.

DISTRICTS.

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

FORECASTS.


Same as Nos 1 and 2


SW^{ly} winds, moderate; dull, some mist or fog.

S^{ly} and SW^{ly} winds, light to fresh; cloudy, some rain.

WARNINGS

The SOUTH CONE was hoisted last evening in districts 6, 7, 9, and 10, but the signals have been lowered again this morning.

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

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

YESTERDAY'S 2 P.M. REPORTS.

	BAR.	THER.		WIND		WEA.	SEA		BAR.	THER.		WIND		WEA.	SEA
		D.	W.	D.	F.					D.	W.	D.	F.		
Skudesnaes ...	30.21	47	42	SE	2	bc	2		Holyhead ...	30.27	50	S	4	omg	2
Sumburgh Head ...	30.18	47	45	SE	1	c	2		Valencia ...	30.09	55	S	6	omg	5
Stornoway ...	30.25	50	47	S	5	c	5		Scilly ...	30.29	54	S	4	o	4
Aberdeen ...	30.25	45	43	WSE	2	bc	3		Jersey ...	30.42	53	SW	3	o	3
Shields ...	30.30	48	45	S	2	c	2		Dungeness ...	30.38	56	NNW	2	bc	1
Ardrossan ...	30.22	49	48	S	2	o	2		London ...	30.40	54	NNW	1	bm	1
Malin Head ...	30.05	50	48	S	4	o	2		Yarmouth ...	30.37	45	S	0	f	2
Mullaghmore ...	30.06	54	50	SE	5	c	4		Rochefort ...	30.31	54	E	2	o	2
Belmullet ...	30.01	51	51	SW	5	o	*								

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

Weather foggy at many of the English and French stations, but fine in Scotland, as well as over Denmark and the greater part of Southern Europe. Chill elsewhere with rain at Warsaw and snow at several of the Russian stations. Rain falling later in most parts of the United Kingdom; fog clearing over England towards night.

Temperature highest, 60° at Malta, 53° at Barcelona, Algiers, and Tunis, and 58° at Palermo and La Felle; above 50° in the south-west of our Islands. Fallen considerably over northern Russia, and as low as -11° F. at Archangel; below the freezing point over Finland and central Russia and very little above it over the eastern and central part of Scotland; as low as 36° even at Madrid. Rising during day to 50° or more in nearly all parts of the United Kingdom and to 60° or more in the south of France.

Wind S³ or SE³ on the west coasts of our Islands and France, with a moderate gale at Valencia Island, but light from SW. or W. in the north and north east of Great Britain, as well as at most of the German stations. Light from NNW. in the south-east of England and also in Italy and Tunis. Cyclonic circulation of light breezes reported over Russia and Sweden. Subsequently increasing to a gale from SW. in the Heligoles.

Barometer highest 30.4 ins. and upwards over the central parts of France and Spain; high 30.2 ins. and upwards, ~~high~~ ~~in a large anticyclone~~ in a large anticyclone extending from Spain to Central Scandinavia. Lowest 29.8 ins. and less, in a well-defined depression lying over the southern part of Russia; 30.1 ins. and less, in the extreme west of Ireland. New depression skirting our west coasts later and barometer falling somewhat decidedly in the west and north-west of our Islands;

EXPLANATION OF COLUMNS GIVEN ON PAGE 1.

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

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

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

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

DAILY WEATHER REPORT.

for Wednesday 19th November. 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.						9 A.M. TO DAY.										PAST 24 HOURS.		
	Barom. Reading at 3 1/2 p.m. and Sea Level.	Temp. Dry.	Wind.		Weather.		Barometer.		Shade Temp.			Wind.		Weather.	Sea. (0 to 2.)	Shade Temp.		Amount of Rainfall.	
			Force. (0 to 12.)				Reading at 9 a.m. and Sea Level.	Difference from 9 a.m. yesterday.	Dry.	Wet.	Difference from 9 a.m. yesterday.	Dir.	Force. (0 to 12.)			Max.	Min.		
SCANDINAVIA.																			
Haparanda ...	30.52	5	NE	4	6		30.48	+15	9	72	E	4	0	•		23	3	—	
Hernösand ...	30.31	23	NE	2	0		30.34	+0.4	34	32	SE	2	0	•		36	23	0.01	
Stockholm ...	30.32	31	2	0	0		30.34	+0.2	34	33	2	0	0	•		39	23	0.04	
Wishby ...	30.28	39	NNW	4	6		30.28	+0.2	39	38	N	2	7	•		43	36	—	
Bodö ...	30.07	37	E	4	0		30.01	-13	35	33	E	4	0	2		41	32	—	
Christiansund ...	30.13	46	SW	3	7		30.06	-0.5	44	41	SE	2	0	3		48	43	0.01	
Skudesnaes ...	30.27	48	SE	4	0		30.23	+0.4	48	47	SE	4	0	4		48	46	0.04	
Christiania Fjord (Furder) ...	30.26	30	NNW	2	0		30.28	-0.1	32	31	N	2	0	1		36	32	—	
Skagen (The Seav.)	30.29	39	SW	1	m		30.29	-0.3	39	39	SW	2	m	1		41	36	—	
Fanö ...	30.30	39	SE	4	f		30.34	0.0	40	40	SE	1	f	•		41	37	—	
Sumbargh Head	30.17	48	W	1	0		29.91	-12	50	50	SW	3	be	3		51	45	—	
Stornoway ...	30.17	51	2	5	0		29.97	-14	52	51	W	7	0	6		54	43	0.02	
Wick ...	30.20	49	2	3	0		30.03	-13	53	53	2	0	6	1		53	40	0.01	
Nairn ...	30.11	42	2	0	be		30.05	-0.9	56	53	SW	2	c	1		56	41	—	
Aberdeen ...	30.27	41	SW	1	be		30.14	-0.6	49	48	SW	3	be	3		51	40	—	
Leith ...	30.28	43	W	1	c		30.19	-0.3	57	54	SW	3	cm	•		57	39	—	
Shields ...	30.33	50	W	1	c		30.28	+0.4	48	47	SW	1	f	2		56	43	—	
Spurn Head ...	30.35	49	W	2	cm		30.36	+0.9	46	46	SW	2	cm	3		53	43	0.01	
York ...	30.36	49	W	1	6		30.37	+0.5	50	49	2	1	0	•		57	43	—	
Loughborough	30.40	54	W	1	0		30.42	+0.8	54	53	SW	1	0	•		56	48	—	
Ardrossan ...	30.25	52	E	1	om		30.24	0.0	53	53	SW	4	c	3		54	48	—	
Malin Head ...	30.18	51	2	3	6		30.19	-0.3	51	50	SW	3	be	2		52	47	0.01	
Mullaghmore ...	30.21	50	SW	6	c		30.24	+0.1	53	54	SW	4	0	3		57	46	—	
Belmullet ...	30.18	52	2	3	om		30.25	+0.5	53	53	SW	2	og	•		55	49	0.02	
Donaghadee ...	30.31	49	SW	2	be		30.30	+0.4	53	53	SW	3	og	1		54	48	0.02	
Liverpool (Bidston)	30.38	53	ENE	1	0		30.38	+0.7	53	52	SE	1	be	2		53	48	0.04	
Holyhead ...	30.36	52	SW	2	m		30.37	+0.6	53	53	SW	4	m	3		53	51	0.05	
Parsonstown ...	30.30	52	2	0	be		30.32	+0.4	53	54	SE	1	og	•		56	50	0.01	
Valencia ...	30.31	53	SE	5	om		30.35	+0.5	53	53	SW	6	om	6		56	52	0.09	
Roche's Point...	30.35	53	SW	3	f		30.40	+0.9	53	53	SW	3	f	4		53	50	0.03	
Pembroke (St. Ann's Hd.)	30.40	52	SW	3	f		30.44	+1.0	53	53	SW	4	f	4		54	53	0.05	
Scilly ...	30.43	53	SW	3	f		30.49	+1.0	53	53	SW	3	f	4		56	52	0.02	
Prawle Point...	30.48	53	SW	3	pd		30.50	+0.7	54	54	W	1	pd	1		54	52	0.13	
Jersey (St. Aubin's)	30.51	54	SW	3	og		30.53	+0.3	53	53	SW	2	pd	2		53	51	0.03	
Hurst Castle ...	30.46	53	W	3	og		30.49	+0.5	52	52	W	2	mod	2		50	52	—	
Dungeness ...	30.41	54	NNW	4	0		30.45	+0.4	53	53	0	NNW	2	om	1		56	52	0.01
London ...	30.43	54	SW	1	og		30.46	+0.8	52	51	0	NNW	1	0	•		56	51	0.06
Oxford ...	30.43	53	NNW	2	0		30.46	+0.6	52	52	+1	SW	1	og	•		53	51	—
Cambridge ...	30.41	53	2	0	0		30.44	+0.6	52	52	+2	SW	1	og	•		53	48	—
Yarmouth ...	30.35	52	W	1	f		30.41	+0.5	47	47	-1	2	0	f	2		53	39	0.01
Cuxhaven ...	30.35	43	2	2	f		30.34	-0.8	45	44	+11	SE	1	f	•		45	43	—
Berlin ...	30.42	46	SE	2	6		30.40	-0.6	34	33	-4	SE	2	0	•		42	32	—
Wiesbaden ...	30.45	41	•	0	0		30.42	-0.5	45	44	-5	W	2	0	•		48	37	0.20
Munich ...	30.45	41	•	0	0		30.46	0.0	40	39	-2	SW	1	0	•		45	37	0.03
The Helder ...	30.34	49	NW	1	c		30.42	+0.5	48	47	+4	NW	1	c	1		50	44	—
Brussels (9 a.m.)	30.47	•	•	•	•		30.47	0.0	48	48	+4	2	0	•		49	3	0.12	
Cape Gris Nez	30.41	52	NW	4	7		30.43	0.0	53	53	+1	2	0	f	2		52	53	0.04
Paris ...	30.51	52	W	2	0		30.49	0.0	50	50	+3	W	1	c	•		54	2	0.04
Brest ...	30.44	53	W	3	0		30.54	?	54	54	0	2	0	0	3		53	48	—
Lorient ...	30.53	52	SE	1	0		30.54	+0.3	50	50	+1	2	0	m	5		52	48	—
Rochefort ...	30.50	48	N	4	0		30.52	+0.2	48	47	+3	NE	2	0	•		52	41	—
Belfort ...	30.51	48	E	1	c		30.51	!	35	32	-3	E	1	f	•		54	34	—
Lyons ...	30.51	41	W	1	be		30.46	-0.1	43	42	-1	N	4	be	•		53	40	—
Nice ...	30.25	51	E	4	c		30.30	+1.0	49	45	-2	NE	4	be	•		63	46	—
Perpignan ...	30.36	54	W	2	6		30.37	+0.5	51	45	-3	NW	2	c	•		65	46	—
Biarritz ...	30.50	50	NE	3	0		30.50	+0.6	48	45	0	SE	3	0	2		54	45	—
Corunna ...	30.32	60	NNW	4	6		30.33	-0.2	50	44	-3	N	4	f	2		68	50	—
Lisbon ...	30.32	60	NNW	4	6		30.33	-0.2	50	44	-3	N	4	f	2		68	50	—

GERMANY & HOLLAND.
 FRANCE AND BELGIUM.
 PENINSULA.

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

Wednesday, 19th November,

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:

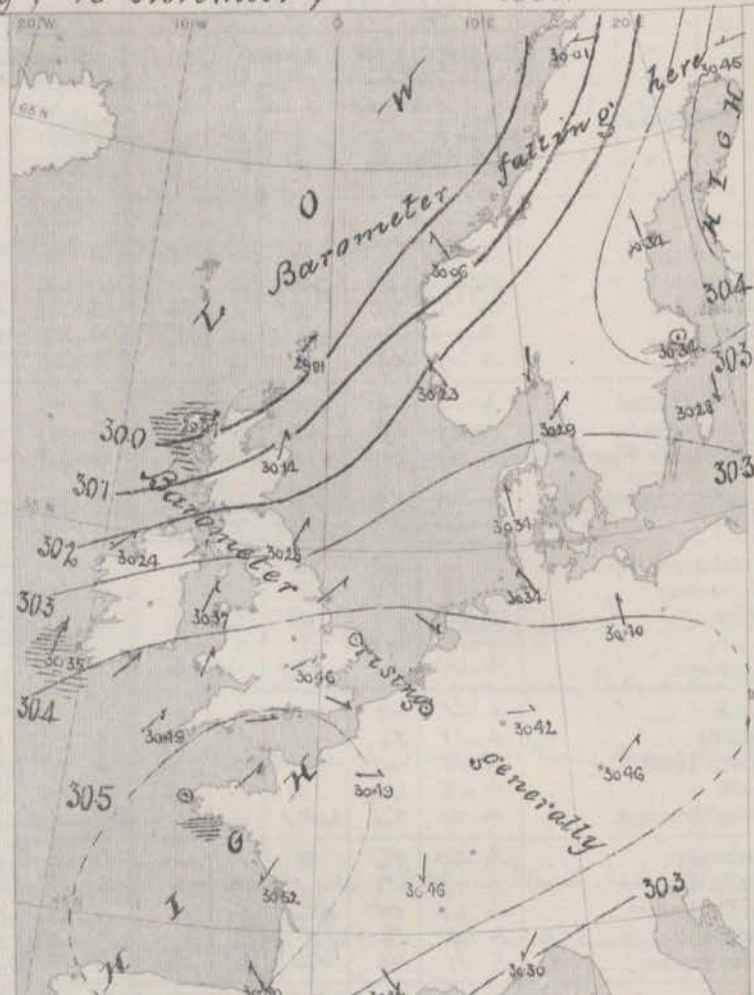
▨ = Rough. ▨ = High.

MEAN HEIGHT OF THE BAROMETER

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

During the 15 Years: 1874—1885.

STATIONS.	MEAN READINGS.
Sumburgh Head	29.687
Stornoway	29.707
Wick	29.726
Nairn	29.743
Aberdeen	29.750
Leith	29.793
Shields	29.815
York	29.844
Loughborough	29.876
Ardrossan	29.795
Donaghadee	29.811
Holyhead	29.855
Liverpool	29.852
Parsonstown	29.848
Valencia	29.804
Roshe's Point	29.864
Pembroke	29.862
Selly	29.898
Jersey	29.923
Hurst Castle	29.898
Dover	29.893
LONDON	29.897
Oxford	29.893
Cambridge	29.885
Yarmouth	29.863



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 November.)

STATIONS.	TEMPERATURE.				RAINFALL (Inches.)
	Daily Max.	Daily Min.	Daily Prev.	Daily Wind.	
Sumburgh Head	45.3	37.4	41.5	39.8	4.24
Stornoway	45.7	35.7	41.0	39.9	4.60
Wick	45.7	35.7	40.9	39.3	2.97
Nairn	44.7	35.5	39.1	37.5	2.32
Aberdeen	46.1	36.3	40.3	38.5	3.16
Leith	48.2	36.7	41.2	39.6	2.11
Shields	47.1	38.1	41.8	40.2	2.63
York	47.7	36.1	40.3	39.0	2.21
Loughborough	48.0	36.4	40.2	38.0	2.30
Ardrossan	47.7	38.9	42.6	40.8	3.92
Donaghadee	48.2	39.2	42.9	41.7	3.13
Holyhead	46.7	42.8	46.5	43.8	3.71
Liverpool	47.7	39.5	42.1	40.4	2.87
Parsonstown	49.1	36.9	41.7	40.0	2.84
Valencia	52.4	42.7	47.2	45.2	6.50
Roshe's Point	51.1	41.8	45.9	44.3	4.56
Pembroke	50.2	43.7	46.7	44.7	3.98
Selly	52.5	46.7	50.0	48.0	3.76
Jersey	51.9	44.2	47.5	45.0	4.24
Hurst Castle	50.6	40.3	44.0	43.6	2.98
Dover	49.1	40.7	44.0	42.4	3.56
LONDON	49.0	37.9	42.0	40.5	2.14
Oxford	48.6	37.6	41.0	39.7	2.90
Cambridge	48.8	35.7	40.3	39.5	2.02
Yarmouth	47.5	39.1	42.0	41.8	3.15

NOTE.—The Temperature means are for the 15 years 1874-85, the Rainfall means are mainly those for the 20 years 1864-85.



GENERAL SITUATION AT 8 A.M.

PRESSURE

Highest, 30.5 in. and more to 30.2 in. over Ireland, England, France, Germany, the Baltic and Finland.
 Lowest, 30.0 in. and less off the northwest of Norway and the north of Scotland.
 Gradients moderate for SW winds over Ireland, Scotland and Norway, slight and variable elsewhere.
 Barometer rising slightly in most places, falling in the northwest of Norway.

TEMPERATURE

Highest, 57° at Louth, 56° at Nain, 55° at Valencia Island and Jersey, 52° in London, and 50° at Paris.
 Lowest, 3° at Haparanda, 32° at Trondheim, 34° at Helsingfors and Stockholm and 35° at Åbo. It is not below 46° at any of our sun stations.
 It has risen decidedly in the eastern part of Scotland since yesterday.

WIND

SW in direction and moderate in force at the Irish and Scotch stations, SE in Norway.
 Very light from W. and SW. over England and the Channel.
 Variable from the E. in the south and southwest of France.

WEATHER

Fine and bright in the east of Scotland, dull and damp in almost all other places — foggy in the east, south, and southwest — but especially in the southwest and at Jersey.

SEA

Rough both at Norway and Valencia Island, moderate on our southwestern coast, 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 20th Nov^r 1890.

DISTRICTS.

FORECASTS.

- | | | |
|---|------------------|---|
| 0 | SCOTLAND NORTH | SW ^{ly} breezes, moderate or fresh;
some rain. |
| 1 | SCOTLAND EAST | |
| 2 | ENGLAND N.E. | SW ^{ly} breezes, light; fair as a whole,
very mild. |
| 3 | ENGLAND EAST | |
| 4 | MIDLAND COUNTIES | SW ^{ly} and W ^{ly} winds, light; gloomy,
damp, wet fog or mist at times. |
| 5 | ENGLAND SOUTH | |

DISTRICTS.

FORECASTS.

- | | | |
|----|---------------|--|
| 6 | SCOTLAND WEST | Same as No. 0. |
| 7 | ENGLAND N.W. | |
| 8 | ENGLAND S.W. | SW ^{ly} breezes, moderate or light;
some rains and wet fogs. |
| 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 ...	30.21	45	245	082	4	o	3	Holyhead ...	30.35	53	53	2	o	mg	o
Sumburgh Head ...	30.14	49	46	14	2	c	3	Valencia ...	30.29	53	54	08E	4	f d	4
Stornoway ...	30.14	52	51	04	3	bc	3	Scilly ...	30.42	56	56	08W	3	f	4
Aberdeen ...	30.26	49	47	14	1	bc	2	Jersey ...	30.51	54	52	06	3	o	3
Shields ...	30.29	55	52	10W	2	bc	2	Dungeness ...	30.39	53	53	10W	4	c	3
Ardrossan ...	30.29	53	52	2	o	c	o	London ...	30.41	56	54	10W	1	om	*
Mulin Head ...	30.22	50	49	2	3	c	2	Yarmouth ...	30.33	53	52	4	3	cf	2
Mullaghmore ...	30.23	56	52	08E	5	c	3	Rochefort ...	30.52	40	47	NW	3	h	1
Betmullet ...	30.20	53	52	5	4	o	*								

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

Weather fine over Southern Europe and the Mediterranean, as well as in Sweden and the north of our Islands. Cloudy or overcast elsewhere, with wet mists or fogs in many parts of Western Europe, and snow at Petersburg and Kiev. Slight rain falling during day over England, Ireland, and the north of France.

Temperature highest 62° at Malta, 61° at La Palis, 60° at Algiers, and 59° at Rhindia and Tunis; above 50° in many parts of England and Ireland. Lowest -11° F. at Archangel, +10° at Moscow, 21° at Haparanda, 22° at Uleaborg, 24° at St. Petersburg, and 26° at Helsingfors; below 40° over central Spain and the north of Italy. Subsequently reaching 55° or a little above in nearly all parts of the United Kingdom, and exceeding 60° in the south of France.

Wind light from the SErd in the west of France, from the SWrd in our Islands, from the Srd on the eastern shores of the North Sea, and from the Erd in the north of Scandinavia. Light from the Nrd or NWrd over the greater part of Russia and central and southern Europe, as well as in Tunis, but SErd or Srd in Algeria. Subsequently backing to the Srd in the extreme east of our Islands, and freshening slightly.

Barometer highest 30.4 ins. to 30.5 ins. or more, in an anticyclone stretching from Spain across the Bay of Biscay, France, and the English Channel to the Netherlands and Germany. Lowest, 30.0 ins. and less, over the Black Sea and the south of Russia; 30.1 ins. and less, in a shallow area lying to the northward of our Islands. Depression moving northward during day at a considerable distance to the westward of the United Kingdom, and barometer falling slightly on our extreme western and northern coasts.

EXPLANATION OF COLUMNS GIVEN ON PAGE 1.

WEATHER.—Beaufort Scale is b. blue sky; c. detached clouds; d. drizzling rain; f. fog; g. dark, gloomy; h. hail; l. lightning; m. misty (hozy); 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 20th November.

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 3 rd P.M. and Sea Level.	Dry.	Dir.	Force (0 to 12.)	Weather.	Reading at 8 th A.M. 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 ...	30.02	34	SE	1	7	29.55	-75	34	33	0	2	0	C	•	39	30	0.47
	Hernösand ...	30.20	39	2	0	0	29.63	-71	38	37	+4	W	2	7	•	39	30	0.39
	Stockholm ...	30.27	40	SE	4	0	29.71	-57	43	42	+4	SEW	6	7	•	43	34	0.47
	Wisby ...	29.53	41	SE	4	7	29.04	-97	44	39	+9	0	4	0	2	?	32	0.20
	Bodö ...	29.67	50	SW	1	0	29.53	-53	44	42	0	W	9	7	6	50	43	0.16
	Christiansund ...	30.06	50	0	1	7	30.00	-23	49	45	+1	W	6	0	4	50	43	0.20
	Skudesnæs ...	30.07	45	SW	5	7	29.82	-46	42	40	+10	W	5	6	2	45	?	0.24
	Christiania Fjord (Færdier) ...	30.08	45	W	5	7	29.89	-40	47	45	+8	W	5	6	4	48	37	0.20
	Skagen (The Scaw) ...	30.26	47	SW	2	7	30.14	-20	45	45	+5	W	4	6	•	50	41	0.04
	Faßö ...	29.51	50	W	6	C	29.90	+08	48	45	-2	W	5	6	6	53	46	0.01
BRITISH ISLANDS.	Sumburgh Head ...	30.07	49	W	4	om	30.16	+19	48	48	-4	SW	4	0	4	52	46	0.02
	Stornoway ...	30.07	50	W	1	6	30.15	+12	44	43	-9	W	2	0	0	52	42	0.04
	Wick ...	30.13	47	SW	3	C	30.18	+13	49	47	-7	W	2	C	1	56	45	—
	Nairn ...	30.18	48	SW	2	C	30.22	+08	48	45	-1	SW	2	C	3	58	41	0.04
	Aberdeen ...	30.20	50	SW	3	7	30.31	+12	49	47	-8	W	3	6	•	60	44	0.01
	Leith ...	30.23	51	SW	4	C	30.35	+07	47	45	-1	SW	2	W	2	61	44	0.06
	Shields ...	30.34	52	SW	2	6	30.38	+02	46	46	0	W	2	W	2	53	45	0.01
	Spurn Head ...	30.34	55	0	1	C	30.40	+03	46	45	-4	W	1	6	•	57	44	0.02
	Yarm ...	30.41	56	W	2	C	30.45	+03	53	51	-1	W	2	0	•	58	53	—
	Houghborough ...	30.29	48	SW	3	7m	30.33	+09	50	40	-3	0	3	0	2	54	46	0.19
GERMANY & HOLLAND.	Andresen ...	30.28	47	SW	3	6	30.27	+08	48	46	-3	0	3	0	2	53	46	0.06
	Malin Head ...	30.32	49	W	2	om	30.29	+05	53	52	-2	SW	4	0	3	56	41	0.13
	Mullaghmore ...	30.34	48	0	3	0	30.28	+03	53	53	0	SW	5	0	•	53	47	0.09
	Belmullet ...	30.32	50	SW	2	7	30.35	+06	45	48	-8	SE	2	6	•	57	38	0.10
	Donaghadee ...	30.37	57	SW	3	0	30.43	+05	52	52	-1	W	2	0	2	53	51	0.09
	Liverpool (Bidston) ...	30.38	54	SW	4	om	30.42	+05	53	53	0	SW	3	W	3	57	53	0.03
	Holyhead ...	30.35	57	2	0	7	30.39	+07	54	53	-1	SW	1	C	•	61	51	0.15
	Parsonstown ...	30.40	54	SW	5	7m	30.45	+10	54	53	-1	SW	5	om	5	55	52	0.09
	Valencia ...	30.44	53	SW	4	6	30.47	+07	52	52	-1	SW	4	7m	4	55	50	0.02
	Roche's Point ...	30.44	53	SW	4	6	30.47	+07	52	52	-1	SW	4	7m	4	55	50	0.02
FRANCE AND BELGIUM.	Pembroke (St. Ann's Rd.) ...	30.51	53	W	3	6	30.53	+04	52	51	-1	SW	3	0	4	56	50	—
	Seilly ...	30.53	54	W	2	0	30.57	+07	53	53	+1	W	3	0	4	58	49	0.01
	Frawle Point ...	30.56	55	W	2	0	30.60	+07	52	51	-3	W	3	0	3	57	51	0.07
	Jersey (St. Aubin's) ...	30.51	54	W	1	C	30.56	+07	52	51	0	W	4	C	2	55	51	—
	Hurst Castle ...	30.46	54	W	3	od	30.47	+02	54	53	+1	W	3	od	2	56	52	0.01
	Dungeness ...	30.48	55	W	3	og	30.48	+02	53	52	+1	W	1	om	•	57	52	—
	London ...	30.48	54	SW	3	0	30.50	+04	52	51	0	W	1	0	•	56	52	—
	Oxford ...	30.44	54	W	0	0	30.46	+02	53	53	+1	W	1	0	•	56	50	—
	Cambridge ...	30.41	52	W	1	C	30.41	0.0	53	52	+6	W	2	6	2	53	45	—
	Yarmouth ...	30.38	49	W	2	6	30.21	-13	51	48	+6	W	3	C	•	51	?	0.01
PENIN. SULA.	Cuxhaven ...	30.46	37	SE	2	6	30.22	-18	42	42	+8	SW	3	7	•	43	?	—
	Berlin ...	30.50	40	W	2	7	30.46	+04	42	41	-3	SW	1	0	•	48	37	—
	Wiesbaden ...	30.41	50	SW	1	6	30.51	+05	41	41	+1	W	2	0	•	41	36	0.12
	Munich ...	30.41	50	SW	1	6	30.34	-08	50	49	+2	W	2	C	3	52	48	—
	The Helder ...	30.50	40	W	2	7	30.51	+05	41	41	+1	W	2	0	•	41	36	0.12
	Brussels (9 a.m.) ...	30.47	54	W	2	0	30.50	+03	50	50	+2	SW	3	0	•	52	47	0.04
	Cape Gris Nez ...	30.54	52	SE	1	0	30.48	+05	52	51	-1	W	5	0	4	53	50	—
	Paris ...	30.58	53	2	0	0	30.54	+05	50	50	0	SW	1	0	•	57	49	0.04
	Brest ...	30.58	53	2	0	0	30.57	+03	51	50	-3	SE	1	6	5	54	48	—
	Lorient ...	30.57	52	W	2	0	30.59	+05	52	52	+2	E	1	0	6	54	50	—
FRANCE AND BELGIUM.	Rochefort ...	30.53	51	N	3	6	30.56	+04	52	51	+4	W	2	0	?	53	45	—
	Belfort ...	30.52	46	E	1	C	30.57	+11	44	44	+1	E	1	0	•	60	32	—
	Lyons ...	30.52	46	N	3	6	30.57	+11	44	44	+1	E	1	0	•	48	?	—
	Nice ...	30.38	50	?	2	6	30.45	+15	46	42	-7	E	3	6	2	54	45	—
	Perpignan ...	30.46	48	W	3	6	30.53	+16	44	42	-7	W	2	6	•	58	42	—
	Biarritz ...	30.52	47	W	3	0	30.54	+04	47	43	-1	SE	2	0	2	54	43	—
	Corunna ...	30.53	60	N	4	6	30.40	0.0	46	44	0	NE	1	6	5	61	41	—
	Lisbon ...	30.53	60	N	4	6	30.37	+04	50	44	0	W	4	6	5	66	48	—

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, 20th November,

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:

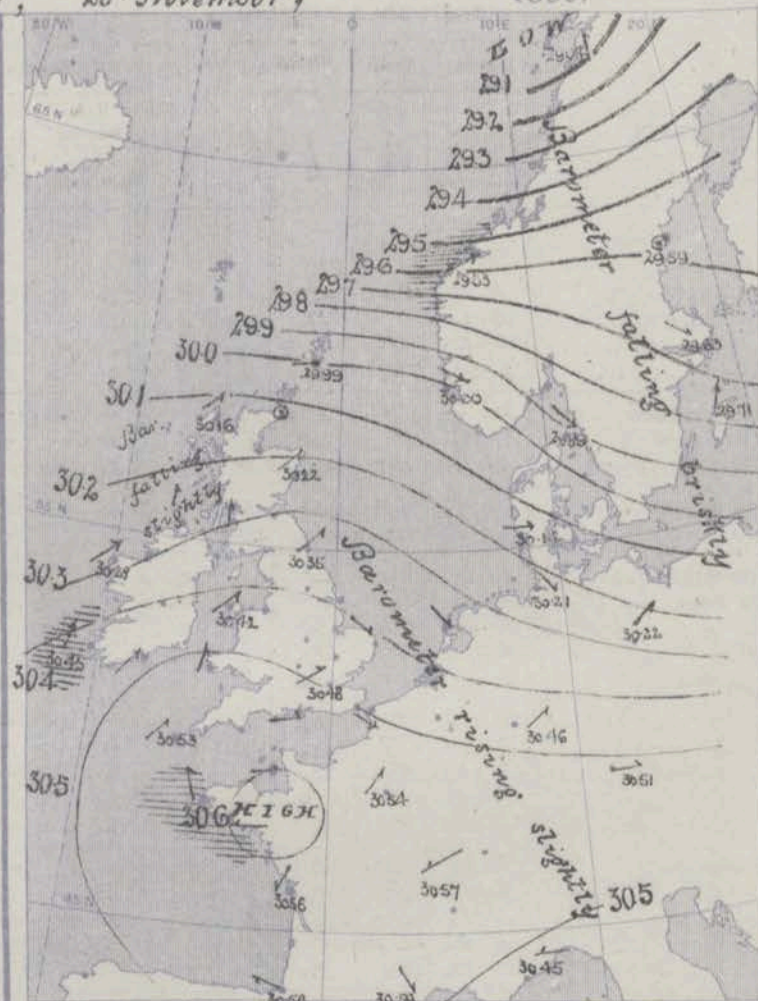
▨ = Rough. ▨ = High.

MEAN HEIGHT OF THE BAROMETER

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

During the 15 Years: 1871—1885.

STATIONS.	MEAN READINGS.
Sumburgh Head	29.687
Stornoway	29.707
Wick	29.726
Nairn	29.743
Aberdeen	29.758
Leith	29.793
Shields	29.815
York	29.844
Loughborough	29.878
Ardrossan	29.795
Donaghadee	29.811
Holyhead	29.835
Liverpool	29.852
Parsonstown	29.848
Valencia	29.804
Roche's Point	29.864
Pembroke	29.862
Scilly	29.808
Jersey	29.923
Hurst Castle	29.895
Dover	29.893
LONDON	29.897
Oxford	29.893
Cambridge	29.885
Yarmouth	29.863



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.

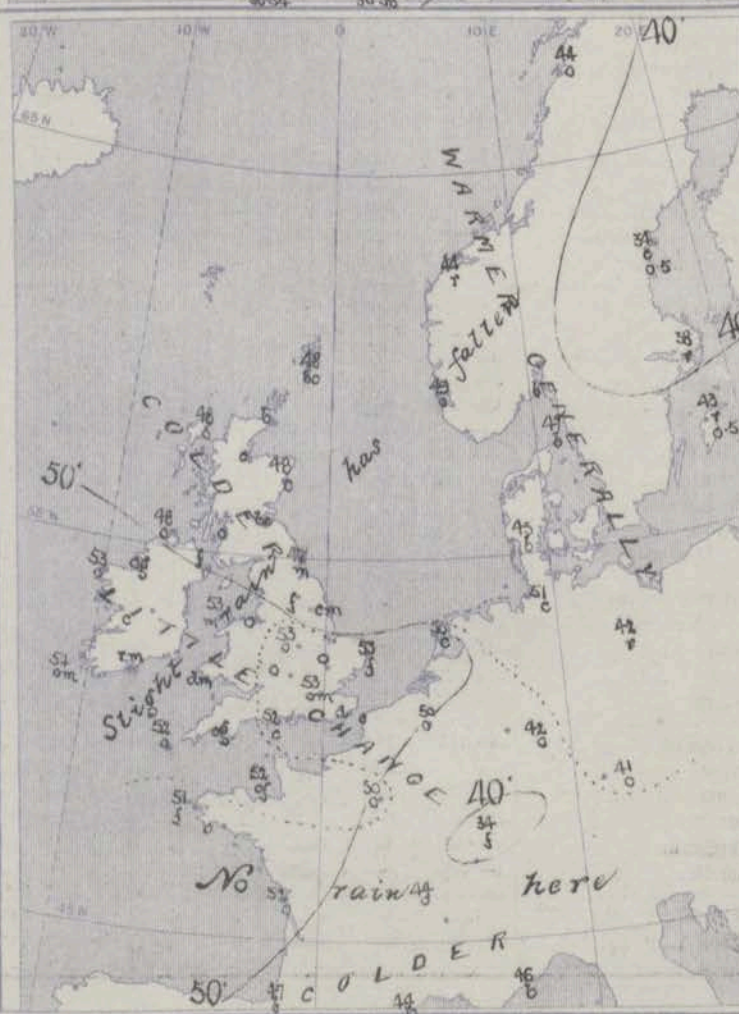
RAINFALL—A dotted line separates the districts in which rain has fallen from those where there has been none. Falls of 0.5 in. or more are quoted in figures.

MEANS OF TEMPERATURE IN SHADE, AND RAINFALL.

(For the month of November.)

STATIONS.	TEMPERATURE				RAINFALL (Inches.)
	Daily Max.	Daily Min.	at 8 a.m.	at 8 p.m.	
Sumburgh Head	45.3	37.4	41.5	39.8	4.24
Stornoway	45.7	35.7	41.0	39.9	4.09
Wick	45.7	35.7	40.9	39.3	2.97
Nairn	44.7	35.5	39.1	37.5	2.32
Aberdeen	46.1	36.3	40.3	38.5	8.16
Leith	48.2	36.7	41.2	39.6	2.11
Shields	47.1	38.1	41.8	40.2	2.03
York	47.7	36.1	40.3	39.0	2.21
Loughborough	48.0	36.4	40.2	38.9	2.30
Ardrossan	47.7	35.9	42.6	40.8	3.92
Donaghadee	48.2	39.2	42.9	41.7	3.13
Holyhead	49.7	42.8	45.5	43.8	3.71
Liverpool	47.7	39.5	42.1	40.4	2.87
Parsonstown	49.1	36.9	41.7	40.0	2.84
Valencia	52.4	42.7	47.2	45.2	5.50
Roche's Point	51.1	41.8	45.9	44.3	4.56
Pembroke	50.2	43.7	46.7	44.7	3.06
Scilly	52.5	46.7	50.0	48.0	3.70
Jersey	51.9	44.2	47.5	45.6	4.24
Hurst Castle	50.5	40.3	44.6	43.6	2.08
Dover	49.1	40.7	44.0	42.4	3.56
LONDON	49.6	37.9	42.0	40.5	2.11
Oxford	48.4	37.6	41.0	39.7	2.30
Cambridge	48.8	35.7	40.3	39.5	2.02
Yarmouth	47.5	39.1	42.9	41.8	3.15

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



GENERAL SITUATION AT 8 A.M.

PRESSURE

Highest, 30.5 in. to 30.4 in. over France and the southern part of England, and Ireland.

Lowest, 29.1 in. and less over Denmark, 30.0 in. and less at Edinburgh Head.

Gradients for W. winds are becoming steep over Scandinavia, but are moderate over our islands, slight in France.

Barometer falling rapidly over the north of Scandinavia but steady or rising slightly at our own stations.

TEMPERATURE

Highest, 55° at Havre la Pout, 54° at Valencia and Benguerra, 53° in London and at Balmalut, 50° at Paris.

Lowest, 34° at Harstad and Belfast, 38° at Stockholm, 41° at Munich, 42° at Berlin, 44° at Kiel, 48° at Altona.

It has risen in Norway, but fallen decidedly at the Scotch stations since yesterday.

WIND

Moderate from the SW. on our western and northern coasts, and from W. on the eastern shores of the North Sea.

Strong W. to S. in the coast of Norway and a gale at Christiansund.

Over England light W. airs are reported, while over France the wind was mainly light from the E.

WEATHER

Fair in the east of Scotland and also on the coasts of Southern Europe, dull and gloomy elsewhere, with wet mists in several parts of the United Kingdom. Slight rain has fallen in many places.

SEA

Rough at Christiansund and Edinburgh Head, as well as at Valencia and about the mouth of the English Channel slight or smooth elsewhere.

PROBABLE CHANGES IN SYSTEM NOW PREVALENT

The disturbance over Scandinavia may possibly spread towards our north and east coasts, causing a shift of wind to NW. with colder weather.

FORECASTS

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

DISTRICTS.

FORECASTS.

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

Wind shifting to W. and NW;
colder, becoming unsettled.

W. winds, mild and misty, perhaps
shifting to NW. later with colder weather.

DISTRICTS.

FORECASTS.

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

Same as No. 0 and 1.

SW. and W. winds; foggy, damp,
perhaps becoming cooler.

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 ...	30.15	40	40	2	1	P	5	Holyhead ...	30.30	54	54	SW	4	mg	4
Sumbargh Head ...	29.91	51	49	W	4	C	4	Valencia ...	30.35	55	53	SW	7	m	6
Stornoway ...	30.05	52	50	W	5	0	5	Scilly ...	30.51	54	53	SW	3	m	4
Aberdeen ...	30.16	56	50	SW	3	C	3	Jersey ...	30.53	56	55	SW	3	mg	3
Shields ...	30.25	60	53	SW	2	bc	2	Dungeness ...	30.46	53	54	W	3	0	2
Ardrossan ...	30.24	57	52	SW	3	P	3	London ...	30.47	57	55	W	1	mg	2
Malin Head ...	30.25	57	51	W	3	0	2	Yarmouth ...	30.41	53	52	W	2	fb	2
Mullaghmore ...	30.29	53	51	W	3	od	3	Rocheport ...	30.52	54	52	N	2	fb	2
Belmullet ...	30.32	50	50	NW	4	om	*								

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

Weather fine in the east of Scotland and also over the greater part of Southern Europe. Dull elsewhere with mist or fog over the southern parts of the United Kingdom, as well as in Denmark and Eastern Germany; rain falling at Constantinople and Laibach. A little rain falling during day in many parts of our Islands, and larger amounts in Scandinavia.

Temperature highest (1) 60° at Malta, 58° at Algiers and 57° at Palermo and Tunis; (2) 57° at Seith, 56° at Nain, and 55° at Mullaghmore, Carrington, and Balnain Island; above 50° in most parts of the United Kingdom. Lowest -11° at Moscow, -1° at Archangel, +4° at Uleaborg, 9° at Kapaevanda, 13° at Krasno, and 14° at St. Petersburg; below 40° in most parts of Central and Eastern Europe and also over northern Italy. Rising during day to 55° or more in many parts of the United Kingdom, the highest readings of all being 61° at Shields and Carrington and 60° at Seith.

Wind light or moderate from the SWnd in our Islands, from the SEnd in the west of Norway and from the End or NEnd over Sweden and Northern Russia. Variable in France and Germany; light from the NWnd over Austria and the south of Russia, moderate from the NEnd or Nnd over the greater part of Southern Europe. NWnd in Tunis, SEnd or Snd in Algeria. Subsequently varying to the Wnd in the northern parts of the United Kingdom.

Barometer highest 30.6 in: and upwards, in an anticyclone lying over Northern Russia, 30.5 in: and upwards in another system lying over the Channel, the Bay of Biscay, and the western part of France. Lowest 30.0 in: and less in a large area lying to the northward of our Islands and the west of Norway and also in another area lying over Asia Minor. Low pressure system in north subsequently moving eastwards, and barometer falling somewhat decidedly in Scandinavia.

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 (bazy); o. overcast; p. passing showers; q. squally; r. rain; s. snow; t. thunder; u. ugly, threatening; v. visibility, unusual transparency; w. dew.

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

The evening observations are taken at 6 p.m. in France and our Islands with the exception of Oxford, where they are taken at 3 p.m. In Sweden and Denmark the observations are taken at 8 p.m. (Christiania time).

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

DAILY WEATHER REPORT.

for *Friday, 21st November,* 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.			
				Reading at 32° F. and Sea Level.	Dry.		Dirac.	Force. (0 to 12.)	Reading at 32° F. and Sea Level.	Difference from 8 a.m. yesterday.	Dry.	Wet.	Difference from 8 a.m. yesterday.			Dirac.	Force. (0 to 12.)	Max.	Min.	Amount of Rainfall.
SCANDINAVIA.	Haparanda ...	29.80	27	S	4	S	29.62		23	23		E	2	S	*	30	19	0.24	
	Hernösand ...	29.80	38	Z	0	C	29.58	- 01	40	38	+ 6	NW	2	O	*	43	32	0.04	
	Stockholm ...	29.68	34	WNW	2	G	29.69	+ 06	40	37	+ 2	N	2	O	*	43	34	0.08	
	Wisby ...	29.70	43	W	6	G	29.73	+ 02	42	40	- 1	N	2	bc	*	46	37		
	Bodö ...	29.17	41	S	1	T	29.45	+ 41	41	39	- 3	?	1	O	1	41	41	0.51	
	Christiansund	29.74	44	SW	9	T	29.61	+ 08	47	42	+ 5	SW	3	C	5	43	43	0.51	
	Skudesnaes ...	30.00	48	WNW	5	O	29.82	- 18	47	46	- 2	SSW	4	T	4	45			
	Christiania Fjord (Færdar)	29.81	45	W	5	bc	29.80	- 02	43	40	+ 1	WNW	3	b	3	46			
	Skagen (The Seaw)	29.84	47	NW	6	G	29.83	- 06	46	42	- 1	NW	3	C	3	48	43		
	Fanö ...	30.10	47	WNW	4	C	29.98	- 16	47	47	+ 2	WNW	1	f	*	48	45		
BRITISH ISLANDS.	Sumburgh Head	29.99	49	W	2	C	29.66	- 33	48	48	0	W	2	O	4	50	46	0.11	
	Stornoway ...	29.95	52	SW	4	T	29.80	- 36	46	45	- 2	W	5	O	4	52	43	0.05	
	Wick ...	30.02	48	SW	2	G	29.76	- 39	47	46	+ 3	NW	1	d	1	50	43	0.03	
	Nairn ...	30.04	52	W	1	O	29.74	- 44	52	51	+ 3	WNW	2	T	1	54	47	0.01	
	Aberdeen ...	30.10	47	SSW	2	C	29.78	- 44	51	49	+ 2	SSW	3	og	3	54	46		
	Leith ...	30.17	55	W	1	C	29.83	- 48	55	52	+ 6	SW	4	O	*	57	47	0.02	
	Shields ...	30.22	56	SW	4	C	29.93	- 42	53	50	+ 6	SW	4	C	3	56	45		
	Spurn Head ...	30.31	51	WNW	2	bc	30.08	- 30	48	46	+ 2	SW	3	bcw	3	53	45		
	York ...	30.34	54	W	1	C	30.05	- 35	50	48	+ 4	S	1	C	*	55	44		
	Loughborough	30.39	54	WNW	2	O	30.16	- 29	49	47	- 4	SW	2	bc	*	59	48		
BRITISH ISLANDS.	Ardrossan ...	30.20	53	SSW	3	C	29.85	- 48	52	52	+ 2	SSW	4	f	4	53	47	0.24	
	Malin Head ...	30.12	53	SSW	4	odp	29.94	- 33	47	46	- 1	NW	5	odp	3	54	46	0.18	
	Mullaghmore ...	30.20	54	SSW	6	og	30.05	- 24	49	47	- 4	NW	6	ogpp	5	56	48	0.54	
	Belmullet ...	30.18	53	SW	4	O	30.12	- 16	48	47	- 5	NW	4	ou	*	54	45	0.65	
	Donaghadee ...	30.26	55	WNW	4	C	29.92	- 44	54	54	+ 9	WNW	4	T	2	57	44	0.04	
	Liverpool (Biston)	30.37	51	SW	3	G	30.04	- 34	52	50	0	SSW	3	C	4	57	48	0.01	
	Holyhead ...	30.38	52	SW	5	og	30.07	- 35	52	52	- 1	SW	6	gmrg	6	53	51	0.03	
	Parsonstown ...	30.33	52	Z	0	O	30.07	- 32	50	49	- 4	NW	1	T	*	60	50	0.05	
	Valencia ...	30.36	54	SSW	6	ogm	30.20	- 25	49	48	- 5	WNW	4	ogm	4	55	46	0.50	
	Roche's Point...	30.43	51	SW	3	O	30.12	- 35	53	53	+ 1	W	4	p	4	54	50	0.20	
BRITISH ISLANDS.	Pembroke (St. Ann's Hd.)	30.47	52	SW	3	C	30.18	- 33	53	52	0	SW	5	cq	4	53	51	0.05	
	Scilly ...	30.49	51	SSW	3	cpm	30.28	- 25	53	53	+ 1	SSW	4	O	4	53	50	0.01	
	Prawle Point ...	30.46	50	WNW	4	C	30.32	- 25	50	49	- 5	SW	5	ogw	4	55	49	0.08	
	Jersey (St. Aubin's)	30.57	51	WNW	3	C	30.40	- 20	53	51	+ 1	WNW	4	opgm	3	55	50	0.03	
	Hurst Castle ...	30.50	53	WNW	3	O	30.31	- 25	51	50	- 1	W	4	O	2	55	50		
	Dungeness ...	30.45	54	WNW	3	O	30.28	- 19	51	50	- 3	WNW	5	O	3	55	51		
	London ...	30.46	53	W	1	O	30.26	- 22	50	48	- 3	SW	3	O	*	57	48		
	Oxford ...	30.45	50	SW	4	O	30.24	- 26	49	48	- 3	SW	3	og	*	55	49		
	Cambridge ...	30.41	51	WNW	1	C	30.20	- 26	51	49	- 2	SW	1	O	*	57	48		
	Yarmouth ...	30.37	54	WNW	2	Cf	30.17	- 24	49	48	- 4	W	3	bcn	2	54	47		
GERMANY & HOLLAND.	Cuxhaven ...	30.18	48	W	3	O	30.10	- 11	48	48	- 3	WNW	3	f	*	51	47		
	Berlin ...	30.13	47	WNW	4	O	30.09	- 15	47	45	+ 5	WNW	4	O	*	48	?	0.12	
	Wiesbaden ...	*	*	*	*	*	30.28	- 18	47	47	+ 5	Z	0	O	*	50	?	0.08	
	Munich ...	30.41	41	W	5	T	30.33	- 18	42	42	+ 1	W	5	C	*	46	41	0.08	
	The Helder ...	30.31	50	W	2	C	30.17	- 17	50	49	0	WNW	2	O	3	52	50		
	Brussels (9 a.m.)	*	*	*	*	*	30.31	- 19	49	49	- 1	SW	4	T	*	52	48	0.20	
	Cape Gris Nez	30.45	53	W	5	f	30.28	- 20	51	50	- 1	WNW	5	O	4	54	48		
	Paris ...	30.54	53	SW	1	O	30.39	- 15	48	47	- 2	WNW	1	O	*	55	48		
	Brest ...	30.60	53	SW	1	O	30.43	- 14	53	52	+ 2	SW	3	f	3	55	48	0.01	
	Lorient ...	30.58	53	Z	0	O	30.43	- 16	51	50	- 1	WNW	2	T	5	55	50		
FRANCE AND BELGIUM.	Rochefort ...	30.66	55	NE	3	O	30.44	- 12	50	50	- 2	ESE	2	O	*	57	45		
	Belfort ...	?	43	E	1	bc	?	?	36	32	+ 2	E	1	f	*	57	32		
	Lyons ...	30.58	43	E	1	T	30.43	- 14	43	43	- 1	NW	3	O	*	48	39		
	Nice ...	30.40	47	N	3	bc	30.28	- 17	46	42	0	E	1	C	2	55	43		
	Perpignan ...	30.49	44	S	2	G	30.30	- 23	43	40	+ 1	NW	2	G	*	58	36		
	Biarritz ...	30.52	46	E	3	C	30.44	- 10	42	41	- 5	SE	2	O	1	50	39		
	Corunna ...	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	
	Lisbon ...	30.41	60	N	4	G	30.45	+ 08	48	45	- 2	NNE	4	G	?	64	48		

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, 21st November,

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:

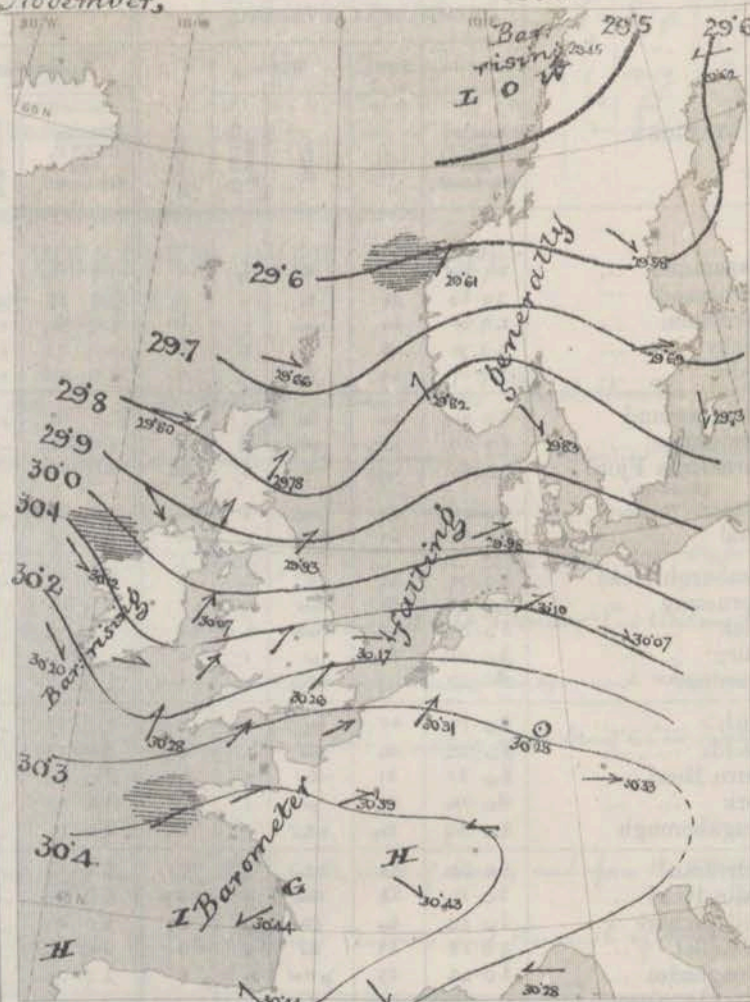
— Rough. — High.

MEAN HEIGHT OF THE BAROMETER

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

During the 15 Years 1871—1885.

STATIONS.	MEAN READINGS.
Sumburgh Head	29.687
Stornoway	29.707
Wick	29.726
Nairn	29.743
Aberdeen	29.756
Leith	29.793
Shields	29.815
York	29.844
Loughborough	29.876
Ardrossan	29.795
Donaghadee	29.811
Holyhead	29.835
Liverpool	29.852
Parsonstown	29.848
Valencia	29.864
Roche's Point	29.864
Pembroke	29.862
Scilly	29.898
Jersey	29.923
Hurst Castle	29.895
Dover	29.893
LONDON	29.897
Oxford	29.895
Cambridge	29.885
Yarmouth	29.863



GENERAL SITUATION AT 8 A.M.

PRESSURE

Highest, 30.4 ins. and more to 30.3 ins. over Spain, France, and the English Channel; 30.2 ins. at Valence Island.
 Lowest, 29.5 ins. and less, over the north of Norway, and about 29.77 ins. in the northeast of Iceland.
 Gradients moderate—for SW^{ly} winds over England and for NW^{ly} in Ireland. The latter appeared to be spreading eastwards.
 Barometer, after falling generally, had begun to rise again in Ireland.

TEMPERATURE

Highest, 55° at Leith, 53° at Port Jersey and Shields, 52° at Harin and Holyhead.
 Lowest, (1.) 23° at Haparanda, 40° at Helsingfors and Stockholm. (2.) 37° at Belfast, 42° at Kinnity and Munich.
 At Paris the reading was 48° in London, and at Portsmouth 50°.
 The thermometer appears to be falling in Ireland.

WIND

Light SW^{ly} to W^{ly} over the North Sea; moderate to fresh from the SW^{ly} over Great Britain; fresh NW^{ly} over Ireland.
 Light from the E^{ly} over the southern half of France.

WEATHER

Though dull in most places is much less damp, misty, and foggy than of late. Rain is falling at several northern and western stations, while in the northeast of England the sky is moderately clear.
 Snow is falling at Haparanda.

SEA

Moderate in the north and west (rough at Holyhead) and also on the French coast, slight or smooth in the east and southeast.

PROBABLE CHANGES IN SYSTEM NOW PREVALENT

As the "V" shaped system moves eastwards the NW^{ly} wind will probably spread all over our Islands, with a decided fall of temperature and drier air than of late. Showers are likely to occur in all districts, followed by brighter, but not settled, weather.

FORECASTS

For the 24 hours ending at NOON on 22nd Nov^r 1890.

DISTRICTS.

FORECASTS.

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

Wind shifting to NW.; colder, showery to fair.
 SW^{ly} winds, mild, dull, rainy, then NW^{ly} winds, much colder, showery to fair.

DISTRICTS.

FORECASTS.

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

NW^{ly} winds, falling light; changeable, showery to fair, colder.

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	48	45	W	6	0	3		Holyhead ...	30.41	52	52	W	4	0 g m
Sumburgh Head ...	30.00	49	47	W	4	c	5		Valencia ...	30.40	54	53	SW	4	0 m
Stornoway ...	30.07	51	50	W	4	bc	4		Scilly ...	30.54	55	52	SW	3	c
Aberdeen ...	30.17	52	47	W	2	bc	2		Jersey ...	30.59	54	53	W	4	c
Shields ...	30.30	53	50	W	0	of	1		Dungeness ...	30.45	55	54	W	2	c
Ardrossan ...	30.24	51	51	SW	3	r	3		London ...	30.46	57	55	W	2	0 g
Malin Head ...	30.17	54	53	W	4	0	2		Yarmouth ...	30.39	54	53	W	2	f
Mullaghmore ...	30.22	56	54	SW	6	c	4		Rochefort ...	30.56	56	55	W	3	0
Belmullet ...	30.24	53	53	W	7	0 m	*								

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

Weather fine in the north of Scotland as well as over Denmark and the greater part of Southern Europe. Cloudy or overcast elsewhere with fog or mist in many parts of England, Ireland, and France, rain in the west of Norway, the south of Sweden, and the north of Germany, and snow at Uleaborg, Hango and Kiev. Rain falling later in the west and extreme north of our Islands — heavily in the west of Ireland.

Temperature highest 57° at San Fernando, Algiers and Tunis, 56° at Malta, and 55° at Barcelona and Pointe à Pitre; above 50° in most parts of England and Ireland. Lowest 2° at Archangel, 3° at Petersburg, 6° at Kharkov, 8° at Moscow, 14° at Kiev, and 20° at Krasnodar; below 40° in most parts of Russia and Central Europe as well as over Central Spain. Rising during day to 55° or more in most parts of the United Kingdom, and reaching 60° at Parnassus; thermometer exceeding the latter point in Portugal.

Wind light to fresh from the SW^W in the west and north of our Islands and from the W^W in the southeast; moderate from the NW^W in Denmark. Strong from the W^W in the west of Norway, with a gale at Christiansund and from the SW^W over Finland and the Baltic, with a fresh gale at Hango. Variable in France and also in the south of Russia, moderate from the NE^W over the greater part of Southern Europe, SE^W in Algeria. No important change occurring during day.

Barometer highest 30.6 ins. and upwards, in an anticyclone lying over Central Russia; 30.5 ins. and upwards in another system lying over France, the Bay of Biscay, the north of Spain, and the southern parts of England and Germany. Lowest 29.5 ins. and less, in a rather deep depression lying off the northwest of Norway; gradient steep over Scandinavia, Finland, and the Baltic. Secondary disturbances approaching the extreme northwest of our Islands later, and barometer falling briskly in northwest.

EXPLANATION OF COLUMNS GIVEN ON PAGE 1.

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

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

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

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

DAILY WEATHER REPORT.

for *Saturday, 22nd November, 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 2.)	Shade Temp.		Amount of Rainfall.		
			Direc.	Force. (0 to 12.)		Reading at 32° F. and Sea Level.	Difference from 8 a.m. yesterday.	Dry.	Wet.	Difference from 8 a.m. yesterday.	Direc.	Force. (0 to 12.)		Weather.	Max.		Min.	
SCANDINAVIA.	Haparanda ...	29.88	17	SE	6	0	29.99	+ .37	13	12	- 10	SE	6	0	+	28	?	0.04
	Hernösand ...	29.63	36	Z	0	7	29.56	- .02	39	38	- 1	SE	4	7	+	45	36	0.08
	Stockholm ...	29.65	34	Z	0	6	29.51	- .18	37	36	- 3	ESE	2	0	+	41	34	-
	Wisby ...	29.69	38	W	4	6	29.50	- .23	37	37	- 5	ESE	4	6	+	45	36	-
	Bodö ...	29.43	35	E	6	8	29.45	- .00	30	28	- 11	E	7	0	+	41	23	-
	Christiansund ...	29.47	46	NW	4	0	29.30	- .31	41	40	- 6	SW	3	0	+	50	41	0.08
	Skudesnaes ...	29.57	45	NW	7	7	29.47	- .35	43	41	- 4	W	6	7	5	43	?	0.55
	Christiania Fjord (Færd)	29.57	44	S	2	0	29.44	- .46	42	41	- 1	NW	4	0	2	45	39	0.47
	Skagen (The Scaw)	29.57	48	SW	2	1	29.39	- .44	45	41	- 1	NW	6	0	5	52	43	0.08
	Fanö ...	29.68	48	NW	4	7	29.66	- .32	44	42	- 3	NW	4	6	+	50	?	0.20
BRITISH ISLANDS.	Sumburgh Head	29.62	44	W	3	C	29.33	- .33	44	43	- 4	W	6	0	6	46	40	0.10
	Stornoway ...	29.71	43	W	5	7	29.64	- .16	45	44	- 1	W	5	0	5	46	39	0.08
	Wick ...	29.74	38	W	1	6	29.60	- .16	41	40	- 6	NW	3	0	2	47	36	0.05
	Nairn ...	29.79	41	W	2	6	29.69	- .05	43	41	- 9	SW	2	0	1	52	39	0.08
	Aberdeen ...	29.84	39	NW	2	6	29.71	- .07	42	38	- 9	NW	4	6	3	52	37	0.04
	Leith ...	29.91	45	W	2	0	29.83	- .08	44	42	- 11	NW	5	6	+	55	40	0.10
	Shields ...	29.93	45	W	4	0	29.91	- .02	45	42	- 8	W	3	0	2	56	40	0.01
	Spurn Head ...	29.93	47	NW	6	0	29.97	- .11	45	43	- 3	NW	6	6	4	54	42	0.06
	York ...	29.98	47	NW	2	0	29.96	- .09	46	43	- 4	W	2	0	+	55	39	0.02
	Loughborough	30.04	48	NW	3	7	30.10	- .06	45	42	- 4	NW	3	0	+	57	41	-
GERMANY & HOLLAND.	Ardrossan ...	29.96	47	NW	3	6	29.89	+ .04	49	47	- 3	W	4	0	3	52	42	0.22
	Malin Head ...	29.98	46	W	5	C	29.92	- .02	49	46	+ 2	W	5	0	4	51	40	0.09
	Mullaghmore ...	30.10	46	W	6	C	30.04	+ .02	50	48	+ 1	W	6	0	6	50	44	0.05
	Belmullet ...	30.16	47	W	5	6	30.09	- .03	50	49	+ 2	W	5	0	+	50	45	0.06
	Donaghadee ...	30.07	43	W	4	6	30.01	+ .09	46	44	- 8	NW	6	0	4	54	40	0.03
	Liverpool (Bidston)	30.07	47	NW	6	C	30.06	- .03	48	46	- 4	W	7	6	5	54	45	0.17
	Holyhead ...	30.14	47	NW	4	6	30.16	+ .09	49	46	- 3	W	5	6	5	53	46	0.20
	Parsonstown ...	30.20	45	NW	1	C	30.19	+ .12	47	45	- 3	NW	1	6	+	51	42	0.05
	Valencia ...	30.33	30	NW	4	C	30.32	+ .12	50	49	+ 1	W	3	0	+	51	47	0.05
	Roche's Point ...	30.27	47	NW	4	6	30.30	+ .18	49	46	- 4	W	4	0	4	55	45	0.10
FRANCE AND BELGIUM.	Pembroke (St. Ann's Hd.)	30.22	50	NW	5	C	30.24	+ .06	51	50	- 2	W	5	6	5	53	46	0.21
	Scilly ...	30.29	51	NW	5	bedm	30.35	+ .07	52	50	- 1	W	5	6	4	54	47	0.06
	Prawle Point ...	30.20	48	NW	3	0	30.32	- .02	49	47	- 1	NW	6	6	5	52	41	0.15
	Jersey (St. Aubin's)	30.21	53	NW	3	omd	30.35	- .05	52	48	- 1	NW	3	6	3	55	48	0.11
	Hurst Castle ...	30.10	53	W	6	g dm	30.25	- .06	49	48	- 2	W	5	0	4	54	44	0.14
	Dungeness ...	30.05	52	W	6	0	30.15	- .13	49	48	- 12	NW	5	6	4	56	39	0.20
	London ...	30.04	51	NW	3	0	30.16	- .10	44	41	- 6	W	2	0	+	55	40	0.06
	Oxford ...	30.12	45	NW	2	6	30.19	- .05	45	43	- 4	SW	3	0	+	53	43	0.03
	Cambridge ...	30.02	51	SW	3	7	30.11	- .09	43	41	- 8	SW	3	6	+	54	36	0.05
	Yarmouth ...	29.96	51	W	5	C	30.02	- .15	41	40	- 8	NW	5	6	2	52	38	0.09
PENINSULA.	Cuxhaven ...	29.95	49	W	4	0	29.76	- .34	47	45	- 1	NW	5	0	+	51	45	0.08
	Berlin ...	30.14	49	NW	3	7	29.72	- .35	47	47	0	NW	4	7	+	48	45	0.16
	Wiesbaden ...	*	*	*	*	*	29.93	- .35	48	45	+ 1	W	2	7	+	54	46	0.16
	Munich ...	30.21	46	W	4	0	30.01	- .32	45	43	+ 3	SW	5	7	+	46	?	0.04
	The Helder ...	29.89	51	SW	3	7	29.93	- .24	48	44	- 2	NW	4	6	4	52	46	0.16
	Brussels (9 a.m.)	*	*	*	*	*	30.12	- .19	41	40	- 8	W	3	0	+	51	41	0.32
	Cape Gris Nez	30.05	53	NW	6	7	30.18	- .10	46	43	- 5	NW	6	6	6	55	43	0.28
	Paris ...	30.26	47	SW	3	0	30.27	- .12	45	41	- 3	NW	3	0	+	49	44	0.04
	Brest ...	30.30	54	W	4	7	30.40	- .03	51	50	- 2	NW	3	0	3	55	46	-
	Lorient ...	30.33	54	W	4	0	30.44	+ .01	50	47	- 1	NW	3	0	4	54	48	-
FRANCE AND BELGIUM.	Rochefort ...	30.36	50	S	3	0	30.40	- .04	50	47	0	NW	5	6	+	55	43	-
	Belfort ...	?	45	W	1	0	?	?	41	34	+ 5	W	1	7	+	54	36	0.32
	Lyons ...	30.33	48	NW	3	0	30.29	- .14	46	45	+ 3	NW	1	7	+	?	?	-
	Nice ...	30.21	49	S	2	C	30.09	- .19	46	45	0	ESE	4	0	0	54	41	-
	Perpignan ...	30.21	62	NW	4	6	30.32	+ .02	51	45	+ 8	NW	4	6	+	70	?	-
	Biarritz ...	30.42	46	N	1	0	30.43	- .01	53	51	+ 1	SW	3	7	2	?	39	-
	Corunna ...	*	*	*	*	*	30.39	- .06	51	50	+ 3	NNE	2	6	?	63	?	-
Lisbon ...	30.40	56	N	4	6	30.39	- .06	51	50	+ 3	NNE	2	6	?	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

Saturday, 22nd November

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:

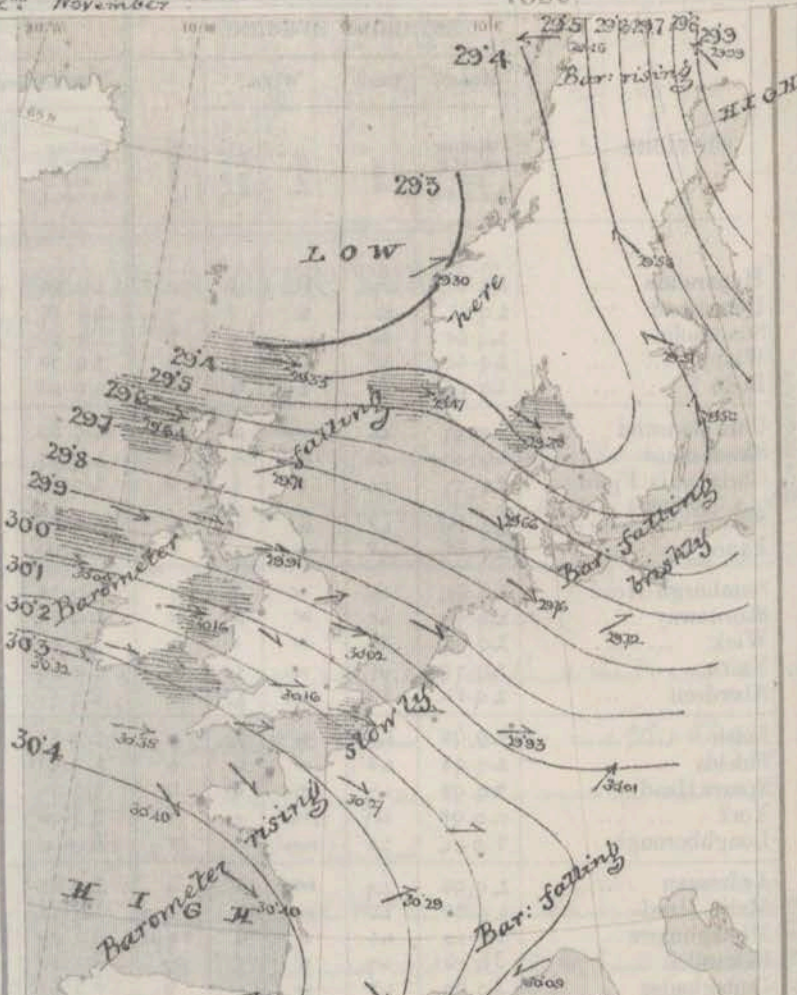
☼ = Rough ☼ = High.

MEAN HEIGHT OF THE BAROMETER

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

During the 15 Years 1871-1885.

STATIONS.	MEAN READINGS.
Sumburgh Head	29.687
Stornoway	29.707
Wick	29.726
Nairn	29.743
Aberdeen	29.766
Leith	29.793
Shields	29.815
York	29.844
Loughborough	29.876
Ardrossan	29.793
Donaghadee	29.811
Holyhead	29.835
Liverpool	29.852
Paranstown	29.848
Valencia	29.864
Roche's Point	29.864
Pembroke	29.892
Selly	29.898
Jersey	29.923
Hurst Castle	29.898
Dover	29.897
LONDON	29.897
Oxford	29.893
Cambridge	29.885
Yarmouth	29.863



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 given by Letters of the Beaufort Scale.

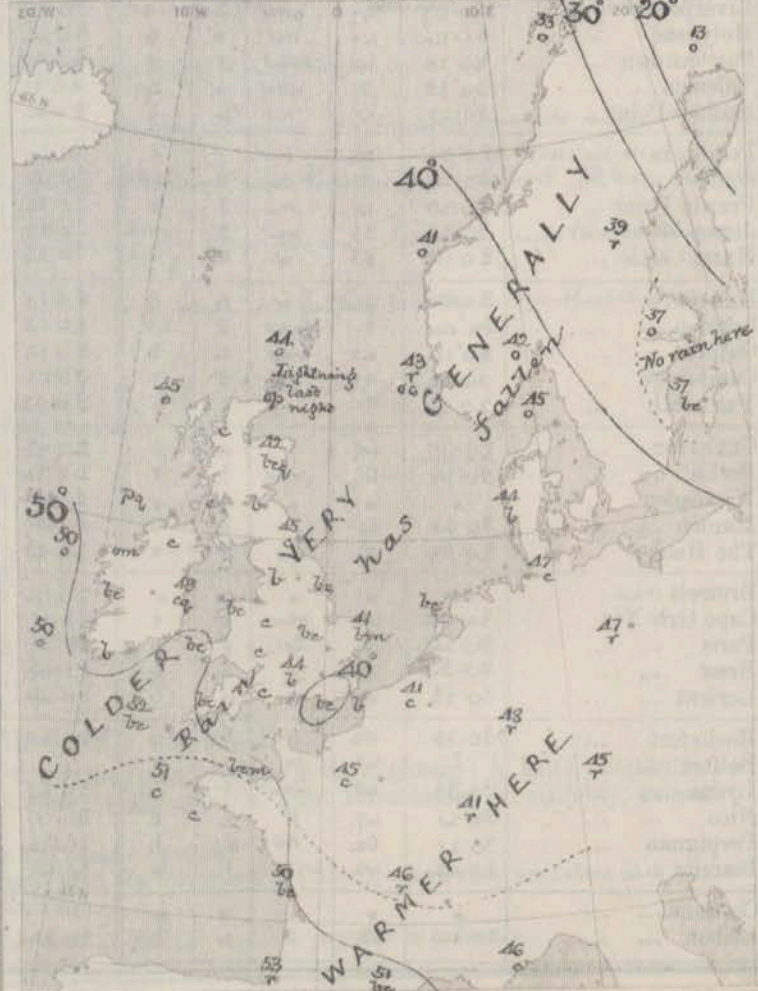
RAINFALL—A dotted line separates the districts in which rain has fallen from those where there has been none. Falls of 0.1 in. or more are quoted in figures.

MEANS OF TEMPERATURE IN SHADE, AND RAINFALL.

(For the month of November.)

STATIONS.	TEMPERATURE.					RAINFALL (Inches.)
	Daily Max.	Daily Min.	Day	Night	Vel.	
Sumburgh Head	45.5	37.4	41.5	39.8	39.8	1.04
Stornoway	45.7	35.7	41.0	39.9	39.9	1.00
Wick	45.7	35.7	40.9	39.3	39.3	2.97
Nairn	44.7	35.5	39.4	37.5	37.5	2.32
Aberdeen	45.1	36.3	40.3	38.5	38.5	3.16
Leith	48.2	36.7	41.2	39.0	39.0	2.11
Shields	47.1	38.1	41.8	40.2	40.2	0.65
York	47.7	36.1	40.8	39.0	39.0	2.31
Loughborough	48.0	36.4	40.2	38.0	38.0	2.30
Ardrossan	47.7	35.9	42.6	40.8	40.8	3.92
Donaghadee	48.2	39.2	42.9	41.7	41.7	3.13
Holyhead	49.7	42.8	45.5	43.8	43.8	3.51
Liverpool	47.5	39.5	42.4	40.4	40.4	2.87
Paranstown	49.1	39.0	41.7	40.0	40.0	2.84
Valencia	52.4	42.7	47.2	46.2	46.2	5.50
Roche's Point	51.1	41.8	45.9	44.3	44.3	4.60
Pembroke	50.3	43.7	46.7	44.7	44.7	3.98
Selly	52.5	40.7	45.0	43.0	43.0	3.79
Jersey	51.9	41.2	45.5	43.6	43.6	4.24
Hurst Castle	50.5	40.5	44.6	43.0	43.0	2.08
Dover	49.1	40.7	44.9	42.4	42.4	3.06
LONDON	49.6	37.0	43.0	40.5	40.5	3.14
Oxford	48.6	37.6	42.0	39.7	39.7	2.90
Cambridge	48.8	35.2	40.3	39.5	39.5	2.02
Yarmouth	47.4	39.1	42.0	41.8	41.8	3.10

NOTE: The temperatures shown are for the 15 years 1871-85, the Rainfall amount are mostly those for the 20 years 1870-89.



GENERAL SITUATION AT 8 A.M.

PRESSURE

Highest, (1) 30.4 in. and more, to 30.5 in. over the Bay of Biscay, Spain, the west of France, and our southwestern coast; (2) 30 in. and more over Ireland.
Lowest, 29.3 and less, to the westward of Sumburg Head and the westward of Norway; 29.5 in. and less over the south of Ireland.
Gradients somewhat steep except in the northwestern districts.

Barometer rising in the east, but beginning to fall again in the west and northwest.

TEMPERATURE

Highest, 53° at Bismity, 52° at Sully, 51° at Rochefort, Kilmuir Island, and Bismity.

Lowest, (1) 13° at Haparanda, 30° at Rönne, 37° at Stockholm and Väst; (2) 35° at Dungeness, and 44° at Falmouth.

It has fallen considerably in many parts of our islands since yesterday, but is still rather high for the time of year.

WIND

W over the United Kingdom generally - moderate in the east, strong and squally in the northwest; rather strong in the English Channel also.

NW², fresh, on the eastern shores of the North Sea, SE² in Sweden, E² at Rönne.

WEATHER

Very changeable over the United Kingdom - fine and bright at some stations, squally and showery in others.

Dull on the eastern shores of the North Sea, very rainy over Germany and the eastern parts of France.

Rain has fallen generally, not heavily.

SEA

Rough in the extreme east, north, and south, smooth off our northeast and east coasts.

PROBABLE CHANGES IN SYSTEM NOW PREVALENT

As the barometer is now falling a little in the northwest and west a new disturbance will probably soon spread over our islands from the Atlantic.

FORECASTS

For the 24 hours ending at NOON on 23rd Nov^r 1890.

DISTRICTS.

FORECASTS.

0 SCOTLAND
NORTH

W² and SW² winds, strong; squally, showery, unsettled.

1 SCOTLAND
EAST

2 ENGLAND
N.E.

NW² and W² winds fresh; unsettled, showers and bright intervals.

3 ENGLAND
EAST

4 MIDLAND
COUNTIES

5 ENGLAND
SOUTH

NW² winds, moderate; some showers, but fair as a whole, not settled.

DISTRICTS.

FORECASTS.

6 SCOTLAND
WEST

7 ENGLAND
N.W.

8 ENGLAND
S.W.

9 IRELAND
NORTH

10 IRELAND
SOUTH

Wind varying between W and SW; unsettled, rain at times.

WARNINGS

NONE ISSUED AT PRESENT.

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

YESTERDAY'S 2 P.M. REPORTS.

	BAR.	THER.		WIND		WEA.	SEA.		BAR.	THER.		WIND		WEA.	SEA.
		D.	W.	D.	F.					D.	W.	D.	F.		
Skudesnaes ...	29.68	49	48	S	6	rf	4	Holyhead ...	30.04	50	48	WNW	5	o g m	5
Sumburgh Head ...	29.65	46	42	W	3	o	4	Valencia ...	30.31	51	46	W	4	b p p	4
Stornoway ...	29.78	45	43	W	5	o	4	Scilly ...	30.19	54	53	WNW	5	o p	3
Aberdeen ...	29.79	45	42	WNW	6	o g p p	4	Jersey ...	30.27	54	52	SW	4	o	4
Shields ...	29.82	55	52	SW	3	o	2	Dungeness ...	30.13	55	53	WNW	6	o	4
Ardrossan ...	29.94	48	45	SW	4	o	3	London ...	30.08	55	52	WNW	3	o	4
Mulin Head ...	29.98	46	43	NW	5	o	3	Yarmouth ...	30.01	52	50	W	5	c q	2
Mullaghmore ...	30.11	48	44	W	6	c g p	4	Rocheport ...	30.40	51	50	WNW	3	o	2
Belmullet ...	30.15	48	47	WNW	5	o p	*								

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

Weather cloudy or overcast in most parts of Europe, with rain in the west and north of our Islands and also over the Netherlands, and snow in Lapland. Fine in the east of England as well as in Spain and Algeria. Rain setting in later over the eastern and southern part of the United Kingdom, but some improvement taking place in west. Thunder heard at Skagen in evening and lightning seen at Niek at night.

Temperature highest 56° at Malta, 55° at Leth and 54° at Donaghadee, Brindisi and Algiers; above 50° in many parts of the United Kingdom as well as at some of the Mediterranean stations, but as low as 44° at Cagliari and Palermo. Lowest -12° at Moscow, -3° at Archangel, 0 (zero) at Khabarovsk, +10° at Kiev, and 15° at St. Petersburg, below 35° over Central Spain, and as low as 40° even at Rome. Rising during day to 55° or slightly above in many parts of Great Britain, but remaining below that point at most of the French stations.

Wind moderate to fresh from the SW^W over Great Britain and the North Sea, but from the N^W in Ireland, and also in Sweden, Denmark, Germany and the Baltic. Light from the SE^W in Russia; N^W in Italy, NE in Spain; variable in France and Algeria. Subsequently, veering to the NW^W in the west and north of England, but backing to the W^W in Ireland.

Barometer highest 30.5 ins. and upwards in an anticyclone lying over Spain; 30.3 ins. and upwards in another system lying over Russia. Lowest 29.5 ins. and less in a depression lying off the northwest of Norway; 29.6 ins. and less in a shallow system lying over the Gulf of Giza. Shallow "V" shaped depressions passing eastwards across our Islands during day, and barometer rising on our western coast.

EXPLANATION OF COLUMNS GIVEN ON PAGE 1.

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

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

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

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

DAILY WEATHER REPORT.

for Sunday 23rd Nov^r. 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 rd P. and Sea Level.	Temp. Dry.	Wind.		Weather.	Barometer.		Shade Temp.			Wind.		Sea. (0 to 9.)	Shade Temp.				
				Force. (0 to 12.)	Dirce.		Reading at 3 rd P. and Sea Level.	Difference from 8 a.m. yesterday.	Dry.	Wet.	Difference from 8 a.m. yesterday.	Dirce.	Force. (0 to 12.)		Weather.	Max.	Min.	Amount of Rainfall.	
SCANDINAVIA.	Haparanda ...	30.02	2	SE	4	bc	29.99	00	0	0	- 13	SE	6	bc	*	21	0	—	
	Hernösand ...	29.83	32	SE	9	s	29.31	- 25	33	32	- 6	ESE	9	s	*	41	30	0.87	
	Stockholm ...	29.32	39	SW	2	o	29.20	- 31	38	37	+ 1	ESE	2	o	*	45	28	0.12	
	Wisby ...	29.43	42	SSE	4	b	29.17	- 38	39	38	+ 2	ESE	2	b	*	45	32	0.12	
	Bodo ...	29.43	46	E	9	o	29.35	- 10	20	16	- 10	ESE	9	o	6	30	18	—	
	Christiansund ...	29.02	41	SW	3	c	28.93	- 37	39	36	- 2	Z	0	o	5	43	37	—	
	Skudesnaes ...	29.18	44	SW	6	r	29.01	- 46	39	36	- 4	NW	7	o	5	47	37	0.47	
	Christiania Fjord (Fjorder)	29.28	44	WSW	5	c	28.72	- 62	40	39	- 2	E	7	r	5	44	?	0.51	
	Skagen (The Seaw)	29.35	42	WNW	3	b	29.07	- 32	41	40	- 4	WNW	6	r	5	46	41	0.36	
	Fanø ...	29.50	45	WSW	6	r	?	?	44	41	0	WSW	8	c	*	48	43	0.55	
BRITISH ISLANDS.	Sumburgh Head	29.13	41	WNW	3	r	29.04	- 29	40	39	- 4	NW	6	r	6	46	35	0.63	
	Stornoway ...	29.27	51	W	7	r	29.31	- 23	43	42	- 2	NW	4	o	14	52	40	0.70	
	Wick ...	29.20	43	W	2	r	29.28	- 37	40	39	- 1	NW	3	o	3	50	36	0.35	
	Nairn ...	29.27	32	SW	4	r	29.32	- 37	44	42	+ 1	SW	1	c	1	52	42	0.25	
	Aberdeen ...	29.30	49	SW	5	ogr	29.30	- 41	40	40	0	W	5	ogr	4	52	42	0.30	
	Leith ...	29.43	52	WSW	10	r	29.34	- 49	48	46	+ 4	WSW	3	om	*	50	43	0.15	
	Shields ...	29.57	52	SW	5	o	29.35	- 56	49	47	+ 4	WNW	3	op	2	53	42	—	
	Spurn Head ...	29.69	48	SW	6	r	29.48	- 54	50	49	+ 5	W	3	r	3	53	44	0.02	
	York ...	29.75	49	W	4	o	29.43	- 53	51	50	+ 5	W	1	o	*	55	45	0.01	
	Loughborough	29.90	48	SW	4	r	29.55	- 55	55	54	+ 10	WSW	3	od	*	55	44	0.18	
GERMANY & HOLLAND.	Ardrossan ...	29.54	55	WSW	5	op	29.39	- 50	49	48	0	W	3	r	2	54	48	0.35	
	Malin Head ...	29.63	50	W	6	or	29.43	- 49	48	48	- 1	W	3	or	3	51	47	0.54	
	Mullaghmore ...	29.77	53	WSW	7	r	29.54	- 53	54	53	+ 4	WSW	7	org	6	54	50	0.61	
	Belmullet ...	29.83	53	W	8	o	29.50	- 53	54	54	+ 4	W	7	or	*	54	49	0.60	
	Donaghadee ...	29.69	52	W	6	o	29.49	- 52	50	50	+ 4	W	3	r	2	52	46	0.57	
	Liverpool (Bidston)	29.79	49	WSW	6	r	29.51	- 54	52	52	+ 4	WSW	8	r	5	53	48	0.35	
	Holyhead ...	29.88	50	WSW	6	opm	29.59	- 57	54	54	+ 5	W	5	omf	5	55	49	0.22	
	Parsonstown ...	29.92	51	SW	2	r	29.68	- 58	55	53	+ 8	SW	2	o	*	56	46	0.10	
	Valencia ...	30.09	54	WSW	50	ogr	29.90	- 42	56	55	+ 6	W	6	ogr	4	56	49	—	
	Roche's Point...	30.06	53	W	5	c	29.87	- 49	57	54	+ 8	WNW	6	bc	4	57	49	—	
FRANCE AND BELGIUM.	Pembroke (St. Ann's Hd.)	30.01	52	W	7	c	29.78	- 46	54	53	+ 3	WSW	5	og	5	54	50	0.17	
	Scilly ...	30.23	52	WSW	5	c	29.95	- 40	53	53	+ 1	W	6	or	5	53	50	0.01	
	Prawle Point ...	30.18	50	W	7	o	29.85	- 47	52	52	+ 3	NW	8	ogp	6	53	47	0.05	
	Jersey (St. Aubin's)	30.28	52	W	4	ogr	29.95	- 40	50	55	+ 4	W	5	omd	4	56	50	0.05	
	Hurst Castle ...	30.12	51	WSW	7	bcg	29.75	- 50	50	49	+ 1	WSW	7	c	5	54	48	0.09	
	Dungeness ...	30.05	50	WNW	4	c	29.62	- 53	55	54	+ 16	WNW	8	a	5	55	39	0.11	
	London ...	30.03	49	SW	4	o	29.61	- 55	57	55	+ 13	WSW	5	o	*	57	43	0.09	
	Oxford ...	29.90	49	SW	5	r	29.64	- 55	55	54	+ 10	SW	3	o	*	50	45	0.09	
	Cambridge ...	29.91	49	SW	3	o	29.54	- 57	57	54	+ 14	WSW	3	o	*	57	42	0.04	
	Yarmouth ...	29.89	47	W	5	r	29.49	- 53	53	52	+ 12	NW	4	or	3	53	39	0.28	
PENIN- SULA.	Cuxhaven ...	29.79	47	NW	4	r	29.20	- 56	47	46	0	WNW	6	c	*	49	46	0.60	
	Berlin ...	29.84	42	W	3	b	29.26	- 46	40	39	- 7	SW	6	r	*	48	39	0.35	
	Wiesbaden ...	*	*	*	*	*	29.60	- 33	48	46	0	SW	4	r	*	48	43	0.53	
	Munich ...	30.18	36	W	6	c	29.82	- 49	38	37	- 7	SW	8	r	*	45	34	0.08	
	The Helder ...	29.76	49	WSW	4	r	29.38	- 55	52	50	+ 4	WNW	4	c	4	52	46	0.39	
	Brussels (9 a.m.)	*	*	*	*	*	29.59	- 53	53	?	+ 12	SW	5	o	*	53	41	0.75	
	Cape Gris Nez	30.12	51	WNW	7	o	29.65	- 53	55	54	+ 9	W	6	r	7	?	46	0.16	
	Paris ...	30.23	48	SE	3	o	29.88	- 39	50	48	+ 5	WSW	4	o	*	53	45	0.16	
	Brest ...	30.36	51	WNW	3	o	30.13	- 27	54	53	+ 3	SW	4	f	4	54	46	—	
	Lorient ...	30.38	51	NW	4	c	30.12	- 32	53	53	+ 3	W	5	*	5	55	50	—	
FRANCE AND BELGIUM.	Rocheport ...	30.40	52	NW	4	bc	30.21	- 19	54	51	+ 4	W	5	o	3	56	45	0.08	
	Belfort ...	30.25	42	W	2	o	30.21	?	36	34	- 5	W	3	r	*	54	32	0.39	
	Lyons ...	30.88	41	N	1	c	30.20	- 09	40	39	- 6	SSE	1	r	*	49	37	0.04	
	Nice ...	29.96	45	E	4	b	30.01	- 08	45	38	- 1	NE	5	bc	2	54	43	—	
	Perpignan ...	30.28	53	W	6	b	30.22	- 10	50	43	- 1	NW	3	c	*	54	47	—	
	Biarritz ...	30.46	52	E	3	o	30.35	- 08	55	50	+ 2	NW	4	o	5	55	48	—	
PENIN- SULA.	Corunna ...	*	*	*	*	*	30.46	- 06	47	?	- 7	NE	1	o	6	59	43	—	
	Lisbon ...	30.33	58	NNW	2	b	30.32	- 07	50	44	- 1	N	3	b	6	66	46	—	

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

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

WEATHER CHARTS

for 8 a.m. on

Sunday, 23rd November,

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:

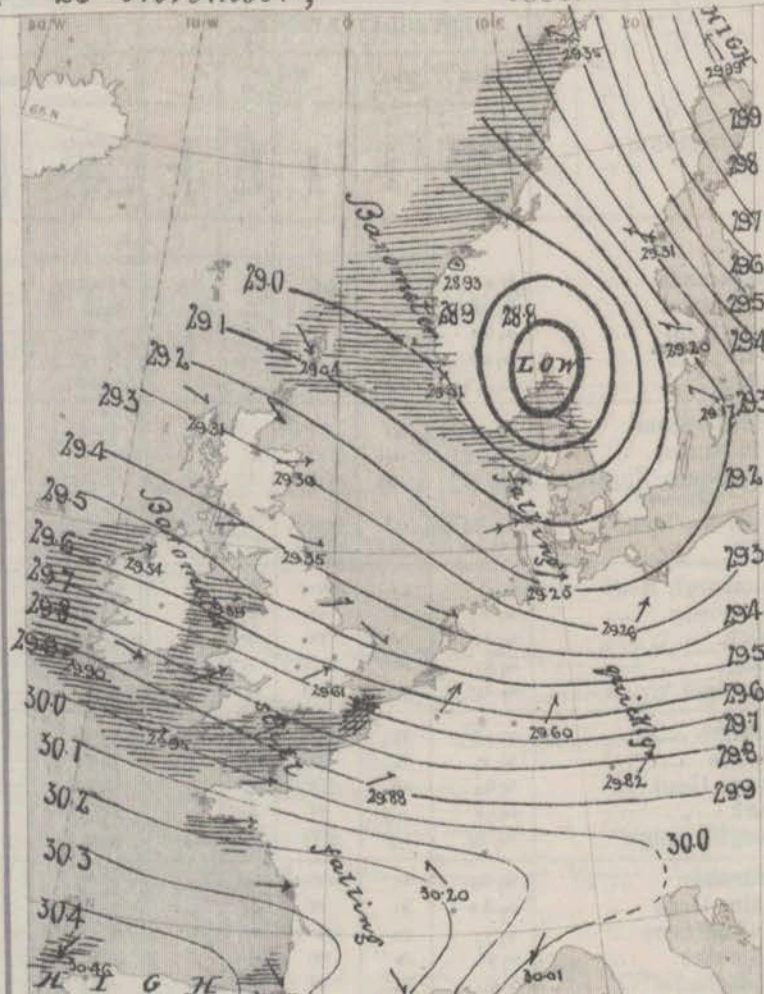
■ = Rough. ■ = High.

MEAN HEIGHT OF THE BAROMETER

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

During the 15 Years, 1871—1885.

STATIONS.	MEAN READINGS.
Sumburgh Head	29.687
Stornoway	29.707
Wick	29.726
Nairn	29.743
Aberdeen	29.756
Leith	29.793
Shields	29.815
York	29.844
Loughborough	29.870
Ardrossan	29.795
Donaghadee	29.811
Holyhead	29.835
Liverpool	29.852
Parsonstown	29.848
Valencia	29.864
Rocha's Point	29.864
Pembroke	29.862
Seilly	29.898
Jersey	29.923
Hurst Castle	29.898
Dover	29.893
LONDON	29.897
Oxford	29.893
Cambridge	29.884
Yarmouth	29.863



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.

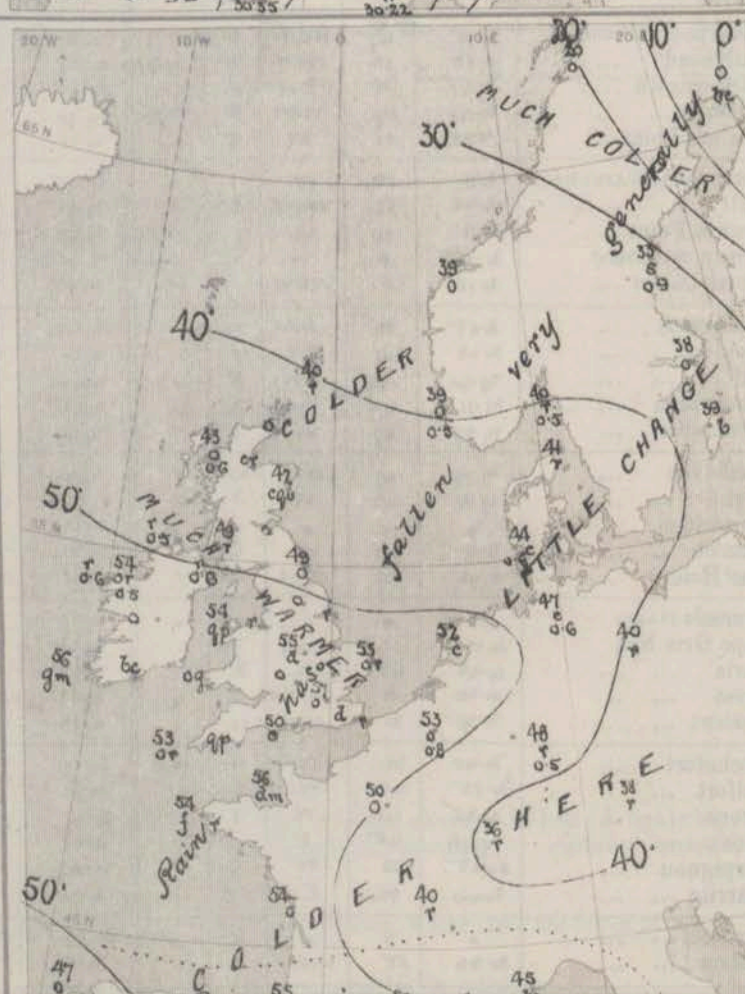
RAINFALL—A dotted line separates the districts in which rain has fallen from those where there has been none. Falls of 0.5 in. or more are quoted in figures.

MEANS OF TEMPERATURE IN SHADE, AND RAINFALL.

(For the month of November.)

STATIONS.	TEMPERATURE.				RAINFALL (Inches.)
	Daily Max.	Daily Min.	Daily Mean.	Wind.	
Sumburgh Head	45.3	37.4	41.5	39.8	4.24
Stornoway	45.7	36.7	41.0	39.9	4.60
Wick	45.7	35.7	40.9	39.3	2.97
Nairn	44.7	35.5	39.1	37.5	2.32
Aberdeen	46.1	36.3	40.3	38.5	3.10
Leith	45.2	36.7	41.2	39.6	2.11
Shields	47.1	38.1	41.8	40.2	2.03
York	47.7	36.1	40.3	39.0	2.21
Loughborough	48.0	36.4	40.2	38.9	2.30
Ardrossan	47.7	35.9	42.5	40.8	3.92
Donaghadee	48.2	39.2	42.9	41.7	3.13
Holyhead	49.7	42.8	45.5	43.8	3.71
Liverpool	47.7	39.5	42.1	40.4	2.87
Parsonstown	49.1	38.9	41.7	40.0	2.84
Valencia	52.4	42.7	47.2	45.2	5.50
Rocha's Point	51.1	41.8	45.9	44.3	4.36
Pembroke	50.2	43.7	46.7	44.7	3.98
Seilly	52.5	46.7	50.0	48.0	3.78
Jersey	51.9	41.2	47.5	45.0	4.24
Hurst Castle	50.5	40.3	44.6	43.0	2.93
Dover	49.1	40.7	41.0	42.4	4.50
LONDON	49.6	37.9	42.6	40.5	2.11
Oxford	48.6	37.6	41.0	39.7	2.30
Cambridge	48.8	35.7	40.3	39.5	2.02
Yarmouth	47.5	39.1	42.0	41.8	3.15

NOTE—The Temperature means are for the 15 years 1871-85; the Rainfall means are mainly based on the 20 years 1860-85.



GENERAL SITUATION AT 8 A.M.

PRESSURE

Highest, 30.4 in: and more, over Spain, the western half of France, and the Bay of Biscay; 30.0 in: to 29.4 in: over Finland, Lapland, and the north of Sweden.
Lowest, 28.7 in: to 28.2 in: over the southern parts of Norway, the Skager Rack, and Denmark.
Gradient, very steep over Lapland, Finland, and the northern parts of Sweden, steep over the west and southern parts of British Isles, rather steep over France and Germany.
Barometer very uneasy - inclined to rise on our northern coasts falling fast in the south and west.

TEMPERATURE

Highest, 57° in London, at Cambridge and at Rochester, above 50° over the south-western and southern part of our Islands generally.
Lowest, 0 (two) F. at Haparanda, 20° at Bodö, 33° at Helsingfors, 39° at Nisby, Christiansund, and 40° at Narsvik.
 It had been as high as 50° to 57° over Great Britain and Ireland generally on Saturday afternoon.

WIND

Blowing a strong gale from the E. over Finland, Lapland, the north of Sweden, and the Gulf of Bothnia and Finland.
 Strong to a gale from between W.S.W. and N.W. over England, Ireland, and the Channel.
 Strong to a gale from S.W. over Germany. Strong N. in the south of France.

WEATHER

In a very unsettled squally condition generally, dull and rainy at times in most places, with snow at Helsingfors.
 Rainfall has been somewhat heavy on our extreme north and north-west coasts.

SEA

Moderate off the eastern coasts of Ireland and England, rough generally elsewhere, high on the northern coast of France.

PROBABLE CHANGES IN SYSTEM NOW PREVALENT

FORECASTS.

For the 24 hours ending at NOON on 24th Nov^r 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

The NORTH CONE was hoisted yesterday on all our coasts.

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

YESTERDAY'S 2 P.M. REPORTS.

YESTERDAY'S								THER: WIND									
		THER:		WIND						THER:		WIND					
	BAR:	D.	W.	D.	F.	WEA.	SEA		BAR:	D.	W.	D.	F.	WEA.	SEA		
Skudesnaes ...	29.42	47	42	W	6	c	5	Holyhead ...	30.02	51	48	WSW	5	og	5		
Sumburgh Head	29.20	42	41	W	5	r	6	Valencia ...	30.19	53	51	WSW	5	om	5		
Stornoway ...	29.32	52	52	N	7	o	6	Scilly ...	30.22	52	52	WSW	4	of	5		
Aberdeen ...	29.49	45	41	S	4	ogu	4	Jersey ...	30.32	55	50	WNW	4	c	3		
Shields ...	29.84	49	45	WSW	4	c	2	Dungeness ...	30.14	51	49	WNW	4	o	4		
Ardrossan ...	29.70	50	50	SW	5	r	4	London ...	30.11	52	49	WSW	2	o	3		
Malin Head ...	29.66	51	50	WSW	8	od	5	Yarmouth ...	30.00	48	45	WNW	5	c	3		
Mullaghmore ...	29.87	51	50	SW	7	org	6	Rocheport ...	30.42	54	49	NNW	4	b	7		
Belmullet ...	29.90	52	51	WSW	8	ou	*										

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

Weather fine over the greater part of the United Kingdom, as well as in Spain, Italy, and the south of France. Dull and unsettled in most other localities, with rain in Germany and the east of France, and also at some of the Scandinavian stations. Rainy weather setting in later in all parts of the United Kingdom; snow falling at some of the Swedish and Russian stations.

Temperatures highest 57° at Barcelona, 55° at Algiers, 54° at Bilbao, Corunna, and Brest, and 53° at Biarritz, Madrid, Lisbon and Faro; above 50° in the extreme southwest of England. Lowest -29° F at Archangel, +5° at Moscow, 11° at Khaslov, 12° at Uleaborg and Kyspio, and 13° at Haparanda; as low as 33° at Madrid. Rising during day to 55° or a little more in many parts of Ireland and England and to 60° or more in Algeria and the south of Europe, the highest reading of all being 70° at San Fernando, and 68° at Palermo.

Wind moderate to strong from the W^{ind} over our Islands and the eastern shore of the North Sea, and from the SW^{ind} in Germany, but SE^{ind} in Sweden, and E^{ind} in the north of Russia. Light or moderate from the NW^{ind} in France and also in Austria, NE^{ind} in Spain; variable in Italy; S^{ind} in Algeria. Subsequently increasing to a strong breeze or moderate gale from the W^{ind} in many parts of the United Kingdom, and to a strong gale from the E^{ind} in the north of Scandinavia.

Barometer highest 30.5 ins. and upwards in an anticyclone lying over the southern part of the Bay of Biscay and the north of Spain; 30.4 ins. and upwards over Northern Russia. Lowest 29.3 ins. and less, in a depression lying off the west of Norway; shallow secondary disturbances lying over Scandinavia and the Baltic. New depression advancing later to the extreme north of Scotland; secondary systems over Northern Europe becoming deeper.

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, 24th November, 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 3 rd P. and Sea Level.	Dry.	Dirct.	Force. (0 to 12.)		Reading at 3 rd P. and Sea Level.	Difference from 8 a.m. yesterday.	Dry.	Wet.	Difference from 8 a.m. yesterday.	Dirct.	Force. (0 to 12.)			Max.	Min.		
SCANDINAVIA.	Haparanda ...																		
	Hernösand ...	29.58	33	ESE	8	S	29.56	+ .55	17	16	- 10	NE	8	S	*	36	?	0.32	
	Stockholm ...	29.11	35	ESE	8	T	29.35	+ .15	29	26	- 10	ESE	9	O	*	41	?	0.16	
	Wisby ...	28.93	38	SE	4	T	29.06	- .11	31	31	- 8	NE	5	S	*	43	?	0.79	
	Bodö ...	29.62	19	ESE	9	O	29.93	+ .58	12	11	- 8	ESE	9	G	6	?	10	-	
	Christiansund ...	29.05	41	ESE	6	O	29.25	+ .32	36	31	- 3	ESE	7	bc	4	?	28	-	
	Skudesnaes ...	28.97	35	SE	0	G	28.76	- .25	41	36	+ 2	ESE	4	O	4	41	34	-	
	Christiania Fjord (Færd)	28.82	40	NNE	7	O	29.19	+ .47	36	32	- 4	NE	9	O	4	41	26	-	
	Skagen (The Scaw)	29.72	42	WNW	8	T	28.94	?	39	37	- 2	ESE	9	O	7	43	39	0.12	
	Fanö ...	28.99	43	WNW	6	G	28.91	?	37	36	- 7	NW	2	G	*	43	37	0.08	
BRITISH ISLANDS.	Sumburgh Head	29.06	40	NW	6	C	29.13	+ .09	40	40	0	NW	6	T	6	43	39	0.05	
	Stornoway ...	29.22	40	NW	2	O	29.45	+ .14	37	37	- 6	N	7	S	6	43	34	0.06	
	Wick ...	29.15	38	NW	1	C	29.50	+ .07	36	35	- 4	WNW	5	crsp	4	46	35	0.06	
	Nairn ...	29.20	42	W	1	bc	29.40	+ .08	37	36	- 7	N	1	C	1	44	36	-	
	Aberdeen ...	29.19	40	WNW	3	Og	29.33	+ .03	37	35	- 8	NW	6	cq p	4	43	35	0.01	
	Leith ...	29.19	44	WNW	1	T	29.36	+ .02	39	37	- 9	N	1	C	*	49	38	0.31	
	Shields ...	29.21	44	W	1	T	29.22	- .13	41	39	- 8	NW	4	C	4	49	38	0.99	
	Spurn Head ...	29.20	47	N	1	O	29.18	- .25	42	41	- 8	NW	5	T	4	53	41	0.81	
	York ...	29.21	46	SW	1	T	29.30	- .13	41	40	- 10	WNW	2	T	*	55	39	0.54	
	Loughborough	29.33	56	SW	6	O	29.23	- .32	40	39	- 15	WNW	3	rgm	*	59	40	0.77	
GERMANY & HOLLAND.	Ardrossan ...	29.16	45	ESE	1	dm	29.43	+ .04	40	38	- 9	NW	3	b	1	48	34	0.56	
	Malin Head ...	29.16	49	WNW	6	OT	29.54	+ .11	41	39	- 7	N	6	bcq p	4	52	40	0.42	
	Mullaghmore ...	29.38	52	WNW	7	OgT	29.64	+ .10	45	41	- 7	WNW	6	bcq p	4	54	41	0.19	
	Belmullet ...	29.42	52	W	7	O	29.77	+ .21	40	39	- 14	WNW	6	Og p	*	54	39	0.38	
	Donsnades ...	29.23	54	W	6	C	29.47	- .02	45	42	- 5	NNE	6	C	4	56	42	0.42	
	Liverpool (Bidston)	29.30	54	WNW	8	O	29.34	- .17	42	41	- 10	N	5	op	5	55	39	0.50	
	Holyhead ...	29.39	56	W	6	Og m	29.42	- .17	45	42	- 9	N	7	Og	7	57	44	0.44	
	Parsonstown ...	29.47	55	WNW	2	O	29.67	- .01	42	40	- 13	W	0	O	*	57	41	0.20	
	Valencia ...	29.68	55	WNW	6	rgm	29.81	- .06	47	44	- 9	WNW	6	cq p	5	56	44	0.25	
	Roche's Point...	29.63	54	WNW	5	bc	29.70	- .11	46	43	- 11	WNW	5	b	4	59	45	0.06	
FRANCE AND BELGIUM.	Pembroke (St. Ann's Hd.)	29.56	55	WNW	7	O	29.50	- .28	48	46	- 6	WNW	6	cq	6	55	44	0.21	
	Scilly ...	29.82	55	WNW	7	Om	29.63	- .32	52	50	- 1	WNW	8	C	6	55	49	0.03	
	Prawle Point ...	29.71	55	WNW	7	O	29.46	- .39	46	45	- 6	WNW	7	bcq m	6	55	44	0.19	
	Jersey (St. Aubin's)	29.85	56	W	5	Og m	29.52	- .43	53	48	- 3	WNW	7	bcq m	5	56	49	0.11	
	Hurst Castle ...	29.59	56	WSW	7	C	29.35	- .40	47	46	- 3	WNW	8	C	5	56	46	0.07	
	Dungeness ...	29.47	55	W	8	O	29.22	- .40	45	44	- 10	NW	7	C	5	55	45	0.15	
	London ...	29.49	57	W	7	Og	29.25	- .36	45	42	- 12	WNW	4	b	*	59	45	0.12	
	Oxford ...	29.43	56	WNW	6	O	29.28	- .36	44	41	- 11	W	3	b	*	56	43	0.09	
	Cambridge ...	29.34	50	WNW	3	O	29.22	- .32	42	41	- 15	N	3	T	*	61	42	0.45	
	Yarmouth ...	29.25	55	NW	7	Og u	29.08	- .41	43	42	- 10	N	5	Og	4	56	41	0.96	
PENINSULA.	Cuxhaven ...	29.17	44	W	4	T	28.98	- .22	43	42	- 4	WSW	1	C	*	49	42	0.04	
	Berlin ...	29.12	44	W	3	T	29.01	- .25	41	41	+ 1	SW	2	O	*	48	39	0.47	
	Wiesbaden ...	*	*	*	*	*	29.40	- .50	45	50	+ 7	W	8	O	*	55	?	0.43	
	Munich ...	29.50	46	W	8	O	29.31	- .51	51	47	+ 13	SW	9	C	*	?	37	0.04	
	The Helder ...	29.20	47	WNW	1	T	28.92	- .46	43	42	- 9	SE	4	T	3	52	43	1.10	
	Brussels (9 a.m.)	*	*	*	*	*	29.09	- .50	47	45	- 6	WNW	7	C	*	56	44	0.51	
	Cape Gris Nez	29.46	55	W	8	O	29.20	- .45	50	46	- 5	W	7	bc	7	55	48	0.04	
	Paris ...	29.75	55	WNW	3	O	29.46	- .48	53	51	+ 3	SW	5	O	*	59	?	-	
	Brest ...	30.02	54	W	5	f	29.73	- .40	52	51	- 2	NW	7	C	6	54	48	0.04	
	Lorient ...	30.01	52	N	5	T	29.69	- .43	52	50	- 1	NW	7	bc	7	54	50	0.12	
PENINSULA.	Rochefort ...	29.05	53	W	5	T	?	?	55	53	+ 1	?	6	O	*	59	45	0.08	
	Belfort ...	?	49	W	4	T	?	?	38	34	+ 2	W	4	O	*	54	34	0.39	
	Lyons ...	30.03	44	SW	1	O	29.78	- .42	49	46	+ 9	ESE	1	O	*	?	?	0.04	
	Nice ...	29.82	47	ESE	3	O	29.65	- .36	45	40	0	E	3	bc	2	54	43	-	
	Perpignan ...	30.03	49	NW	6	C	29.97	- .25	53	47	+ 3	N	5	b	*	52	?	-	
	Biarritz ...	30.25	56	N	5	O	30.05	- .30	57	54	+ 2	W	5	O	5	57	54	-	
	Corunna ...	*	*	*	*	*	30.13	- .19	50	48	0	NW	1	b	?	66	50	-	
	Lisbon ...	30.23	57	WNW	2	b	30.13	- .19	50	48	0	NW	1	b	?	66	50	-	

WEATHER CHARTS

for 8 a.m. on *Monday, 24th November, 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

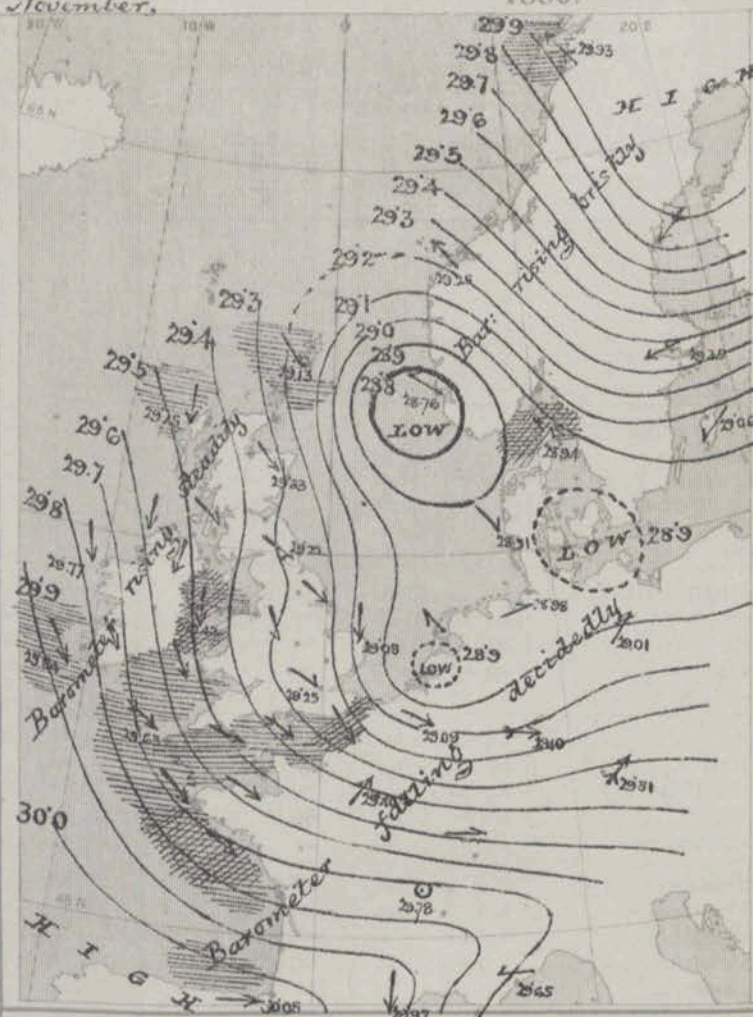
at 8.0 a.m. for the month of November.

During the 15 Years, 1871—1885.

STATIONS.

MEAN READINGS.

STATIONS.	MEAN READINGS.
Sumburgh Head	29.687
Stornoway	29.707
Wick	29.720
Nairn	29.743
Aberdeen	29.756
Leith	29.793
Shields	29.815
York	29.844
Loughborough	29.870
Ardrossan	29.795
Doughhead	29.811
Holyhead	29.835
Liverpool	29.852
Parsonstown	29.848
Valencia	29.804
Roche's Point	29.804
Pembroke	29.802
Selly	29.808
Jersey	29.823
Hurst Castle	29.898
Dover	29.803
LONDON	29.897
Oxford	29.898
Cambridge	29.883
Yarmouth	29.863



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.

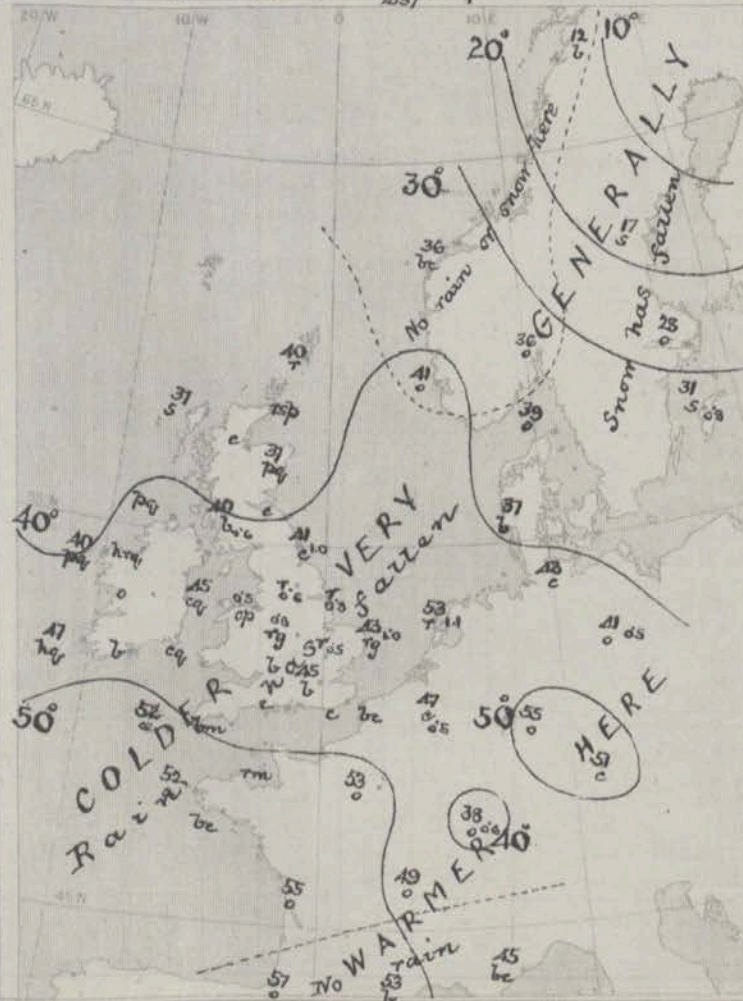
RAINFALL—A dotted line separates the districts in which rain has fallen from those where there has been none. Falls of 0.5 in. or more are quoted in figures.

MEANS OF TEMPERATURE IN SHADE, AND RAINFALL.

(For the month of November.)

STATIONS.	TEMPERATURE.				RAINFALL. (Inches.)
	Daily Max.	Daily Min.	31 st a.m.	31 st p.m.	
Sumburgh Head	45.3	37.4	41.5	39.8	4.24
Stornoway	45.7	36.7	41.0	39.0	4.60
Wick	45.7	35.7	40.9	39.3	2.97
Nairn	44.7	35.5	39.4	37.5	2.32
Aberdeen	46.4	36.3	40.3	38.5	3.16
Leith	48.2	36.7	41.2	39.6	2.11
Shields	47.1	38.1	41.8	40.2	2.63
York	47.7	36.7	40.3	39.0	2.21
Loughborough	48.0	36.4	40.2	38.9	2.80
Ardrossan	47.7	38.9	42.6	40.6	3.22
Doughhead	48.2	39.2	42.9	41.7	3.13
Holyhead	49.7	42.8	45.3	43.8	3.71
Liverpool	47.7	39.0	42.1	40.4	2.87
Parsonstown	49.1	36.9	41.7	40.0	2.84
Valencia	52.4	42.7	47.2	45.2	6.50
Roche's Point	51.1	41.8	45.9	44.3	4.56
Pembroke	50.2	41.7	46.7	44.7	3.95
Selly	52.0	40.7	49.0	48.0	3.70
Jersey	51.0	44.2	47.3	45.6	4.21
Hurst Castle	50.5	40.3	44.0	43.0	3.05
Dover	49.1	40.7	44.0	42.4	3.30
LONDON	49.6	37.9	42.0	40.5	3.14
Oxford	48.6	37.6	41.0	39.7	2.80
Cambridge	48.8	35.7	40.3	39.5	2.02
Yarmouth	47.5	39.1	42.0	41.8	3.15

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



GENERAL SITUATION AT 8 A.M.

PRESSURE	<p>Highest { (1.) 30.1 in. to 29.8 in. over Spain, the Bay of Biscay, west of France, and west of Ireland. (2.) 30.0 in. (and probably more) over Lapland, the north of Sweden and northern Europe generally. Lowest, 28.7 in. to 28.0 in. in a very complete depression lying over the North Sea, Denmark, and the southeast of Norway. Gradient very steep for S.E. winds over Scandinavia; steep for N.W. winds over our Islands, slight and very irregular over Denmark and the eastern part of the North Sea. Barometer rising in most parts of our Islands and over Scandinavia, falling over Germany, Holland, and France.</p>
TEMPERATURE	<p>Highest, 57° at Limerick, 55° at Rochfort and Wickliffe, 53° at Paris, and 52° at Seilly. Lowest, 12° F. at Bodo, 17° at Harisund, 28° at Stockholm, 36° to 37° in the north and east of Scotland, 40° at Foulness and Alderney. It rose to between 55° and 60° over England yesterday, and touched 61° at Cambridge.</p>
WIND	<p>Blowing a strong gale from N.E. and E. over Sweden and Norway; strong to a gale and squally from the N.W. and N. over our Islands, and from the W. in the east of France and western Germany; moderate S.E. at the Helder, very light N.W. in Holstein. A heavy squall occurred in London early this morning when the wind shifted from S.W. to N.W.</p>
WEATHER	<p>Very unsettled everywhere, showers very prevalent in all parts of our Islands, with snow in the north of Scotland. Rainfall has been very heavy on the various shores of the North Sea.</p>
SEA	<p>Very rough, except along our eastern coast, where it is moderate.</p>

PROBABLE CHANGES IN SYSTEM NOW PREVALENT

A. The disturbances move southward. Colder weather will probably become general, and the wet snow showers spread southwards over our Islands.

FORECASTS

For the 24 hours ending at NOON on 25th Nov^r 1890.

DISTRICTS.

FORECASTS.

- SCOTLAND NORTH
- SCOTLAND EAST
- ENGLAND N.E.
- ENGLAND EAST
- MIDLAND COUNTIES
- ENGLAND SOUTH

N² winds, strong, a gale at times; squally, rain and sleet showers.

NW² winds, strong to a gale; squally rain at times, perhaps sleet later.

DISTRICTS.

FORECASTS.

- SCOTLAND WEST
- ENGLAND N.W.
- ENGLAND S.W.
- IRELAND NORTH
- IRELAND SOUTH

N² winds, strong, squally, a gale in places; rain and sleet at times.

WARNINGS

The N. CONE is still flying on all our coasts

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

YESTERDAY'S 2 P.M. REPORTS.

THER: WIND								THER: WIND							
BAR:		D.	W.	D.	F.	WEA	SEA	BAR:		D.	W.	D.	F.	WEA	SEA
Skudesnaes ...	29.99	41	37	NW	4	c	5	Holyhead ...	29.45	56	55	W	6	0 q m	5
Sumburgh Head ...								Valencia ...							
Stornoway ...	29.24	43	42	NW	3	0	3	Scilly ...							
Aberdeen ...								Jersey ...	29.89	55	54	W	5	0	4
Shields ...								Dangness ...	29.50	55	54	NW	8	0	6
Ardrossan ...								London ...							x
Malin Head ...	29.21	52	52	W	6	0	4	Yarmouth ...							
Mullaghmore ...								Rocheport ...	30.17	55	54	NW	5	0	2
Belmullet ...	29.46	54	54	NW	8	0 q	*								

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

Weather very rough and unsettled in all but the extreme southern countries, with rain in many parts of the United Kingdom, France, Germany and Denmark, and snow over central Russia and the Gulf of Finland and Bothnia. Fine in Italy and the southern parts of France and Spain, but raining in Tunis.

No material change occurring during day.

Temperature very high for the time of year over the southern parts of the United Kingdom, readings above 50° in most places, and as high as 54° at Rochester, Cambridge and in London, and 56° at Valencia, Island and Jersey. Below 50° at several of the Mediterranean stations, but nearly 58° at Algiers, and 60° at Malta. Lowest -31.5° at Archangel -1° at Kuopio (zero) at Haparanda, 1° at Kuopio, 4° at St Petersburg, and 7° at Moscow. Rising during day to 59° at Loughborough, Rochester Point and in London, and to 61° at Cambridge.

Wind strong to a gale from the Wnd over the greater part of Ireland and England, as well as in Denmark, the Netherlands and the north of France, but moderate from the Wnd or NWnd in Scotland. Sth and SWth gales reported in Germany, and strong Eth gales over Finland and the northern parts of Scandinavia. Light from the NEth in Spain and Italy, moderate from the NWth in Algeria and the south of France. No important change occurring during day.

Barometer highest 30.5 ins. and upwards over northern Russia, 30.3 ins. and upwards over the north of Spain and the southern parts of the Bay of Biscay. Lowest 28.8 ins. and less in a depression having its centre near Christiania. Gradient steep over the greater part of western Europe, and very steep over Finland and the north of Scandinavia. Depression subsequently moving slowly southwards, but well marked secondary disturbance appearing over the west of Scotland.

SUMMARY OF CHANGES IN THE WEATHER OVER THE BRITISH ISLANDS AND THEIR NEIGHBOURHOOD FROM THE 16TH TO 22ND NOV. 1890

During the earlier part of this week pressure was high over western Europe generally, but especially over Spain, France and England, where a large anticyclone prevailed. Gradients were light, and mainly favourable for SWth winds. Temperature was very high for the time of year; the weather was gloomy except in the northeast; wet fogs and mists were prevalent over England and the Channel, and rain fell in small quantities on our western and northwestern coasts almost daily.

On Wednesday the barometer began to fall decidedly in the north, as large depressions advanced in a northeasterly direction from the Atlantic to northern Europe. The SWth wind consequently freshened in Ireland, Scotland and Norway; rainfall increased in all those regions, and at times spread to our southeastern districts also. The fogs soon cleared off and temperature showed a decided tendency to fall.

At the close of the week a large and deep depression had advanced to the Scandinavian coasts from the northwestward, and was advancing southwards across Norway; secondary disturbances were shown over the United Kingdom and very unsettled rough weather set in over all the northwestern, western, and southern parts of the Kingdom.

EXPLANATION OF COLUMNS GIVEN ON PAGE 1.

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

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

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

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

DAILY WEATHER REPORT.

for Tuesday 25th November. 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 2.)	Shade Temp.		Amount of Rainfall.	
				Dirce.	Force. (0 to 12.)		Reading at 32° F. and Sea Level.	Difference from 8 a.m. yesterday.	Dry.	Wet.	Difference from 8 a.m. yesterday.	Dirce.	Force. (0 to 12.)			Max.	Min.		
SCANDINAVIA.																			
Haparanda ...	30.25	14	NE	8	0	30.40	+0.54	14	13	-3	NNE	6	C	•	25	12	0.12		
Hernösand ...	29.80	19	NE	8	0	30.09	+0.74	13	10	-15	NNE	6	0	•	37	9	0.16		
Stockholm ...	29.53	21	NE	8	0	29.84	+0.78	17	15	-14	ENE	6	bc	•	39	9	0.20		
Wisby ...	30.25	13	E	8	0	30.36	+0.43	12	11	0	E	4	C	2	31	9	—		
Bodö ...																			
Christiansund	29.67	32	ESE	8	0	30.03	+0.78	24	24	-8	ESE	7	C	3	36	27	—		
Skudenesnaes ...	29.62	34	E	8	0	30.11	+0.99	24	24	-17	E	4	bc	3	37	24	—		
Christiania Fjord (Fjorden)	29.74	25	NNE	8	0	30.13	+0.94	21	19	-15	NNE	8	0	4	36	21	—		
Skagen (The Seaw)	30.02	27	NE	8	0	29.94	+1.00	24	21	-15	ENE	5	bc	5	39	23	0.04		
Fanö ...	30.36	22	NE	8	0	29.78	+0.87	26	25	-11	NE	7	0	•	39	?	0.04		
Sumburgh Head	29.43	42	SE	4	7	29.99	+0.86	39	39	-1	E	0	T	5	43	37	0.46		
Stornoway ...	29.56	39	N	6	C	29.94	+0.49	42	41	+5	NE	4	C	4	42	34	0.15		
Wick ...	29.48	41	N	3	bc	?	?	41	39	+5	NE	5	bc	4	45	35	0.20		
Nairn ...	29.57	37	W	1	C	29.92	+0.52	38	37	+1	E	1	bc	1	41	35	0.03		
Aberdeen ...	29.43	38	WNW	7	cg	29.95	+0.82	40	37	+3	ESE	6	cg	7	42	36	0.26		
Leith ...	29.51	36	W	1	C	29.82	+0.46	37	37	-2	SE	2	T	6	45	35	0.09		
Shields ...	29.49	38	WNW	3	C	29.76	+0.54	41	40	0	E	5	0	6	43	30	0.18		
Spurn Head ...	29.48	42	W	6	C	29.69	+0.51	43	41	+1	ENE	6	cg	5	45	36	0.17		
York ...	29.53	35	WNW	1	C	29.79	+0.49	36	35	-5	NE	1	C	•	45	28	0.04		
Loughborough	29.59	37	W	2	C	29.73	+0.50	30	29	-10	WNW	1	C	•	44	29	0.03		
BRITISH ISLANDS.																			
Ardrossan ...	29.47	40	WNW	2	bc	29.80	+0.37	35	35	-5	NE	2	C	1	44	35	—		
Malin Head ...	29.63	42	WNW	7	cg	29.77	+0.23	44	41	+3	N	5	C	4	44	35	0.02		
Mullaghmore ...	29.78	44	NW	7	cg	29.85	+0.21	42	40	-3	NW	4	C	3	45	39	0.14		
Belmullet ...	29.85	43	NW	5	C	29.91	+0.14	42	41	+2	N	3	C	•	44	39	0.50		
Donaghadee ...	29.66	39	WNW	5	bc	29.76	+0.29	45	43	0	WNW	6	bc	4	45	38	0.16		
Liverpool (Bidston)	29.61	42	WNW	6	bc	29.75	+0.41	34	33	-8	NE	1	C	2	44	34	0.20		
Holyhead ...	29.68	44	WNW	7	C	29.75	+0.33	45	42	0	NE	5	C	5	46	40	0.16		
Parsonstown ...	29.86	38	NW	7	C	29.87	+0.20	35	34	-7	NW	1	C	•	43	34	0.02		
Valencia ...	29.98	46	WNW	5	C	29.97	+0.13	42	40	-5	NNE	4	C	4	49	40	0.18		
Roche's Point...	29.91	43	WNW	5	C	29.87	+0.17	41	38	-5	N	5	C	4	48	38	0.15		
Pembroke (St. Ann's Hd.)	29.77	46	NW	6	bc	29.74	+0.24	40	39	-8	NNE	3	bc	3	48	38	0.05		
Scilly ...	29.82	47	NW	7	bc	29.78	+0.10	47	44	-5	N	5	C	5	51	42	0.12		
Prawle Point...	29.76	42	WNW	4	bc	29.78	+0.27	36	35	-10	WNW	2	C	1	50	34	0.04		
Jersey (St. Aubin's)	29.74	43	NW	6	bc	29.72	+0.20	42	39	-11	NW	3	bc	3	54	41	0.14		
Hurst Castle ...	29.65	42	NW	5	C	29.71	+0.36	34	33	-13	NW	3	C	3	49	33	0.03		
Dungeness ...	29.50	44	NW	6	0	29.63	+0.41	32	32	-13	WNW	4	C	3	49	30	—		
London ...	29.59	41	NW	2	C	29.69	+0.44	30	30	-15	NW	1	C	•	47	30	0.03		
Oxford ...	29.67	37	NW	4	C	29.72	+0.44	31	30	-13	WNW	1	C	•	45	29	—		
Cambridge ...	29.55	38	WNW	3	C	29.70	+0.48	33	32	-9	WNW	1	0	•	45	30	0.09		
Yarmouth ...	29.44	42	NW	6	cg	29.63	+0.35	42	40	-1	NE	6	C	5	47	35	0.58		
GERMANY & HOLLAND.																			
Cuxhaven ...	29.01	39	N	3	C	29.57	+0.59	33	33	-10	ENE	7	0	•	45	32	—		
Berlin ...	29.11	37	WNW	4	T	29.44	+0.43	31	28	-10	NE	5	C	•	45	30	0.91		
Wiesbaden ...	•	•	•	•	•	29.45	+0.35	41	39	-14	W	2	0	•	53	39	0.16		
Munich ...	29.23	42	SW	8	C	29.48	+0.17	33	33	-18	W	4	0	•	55	32	0.35		
The Helder ...	29.32	40	NW	5	C	29.61	+0.69	40	38	-8	ENE	5	0	4	46	39	0.24		
FRANCE AND BELGIUM.																			
Brussels (a.m.)	•	•	•	•	•	29.56	+0.47	36	36	-11	W	1	0	•	47	32	0.55		
Cape Gris Nez	29.50	43	WNW	6	0	29.60	+0.40	40	37	-10	WNW	5	C	6	50	37	—		
Paris ...	29.53	44	WNW	3	0	29.69	+0.29	36	34	-17	WNW	2	bc	•	54	33	0.16		
Brest ...	29.91	50	NW	6	C	•	•	45	43	-7	WNW	3	0	4	54	39	0.12		
Lorient ...	29.87	48	WNW	5	C	29.78	+0.09	44	41	-8	NW	4	0	5	54	41	—		
Rochefort ...	29.84	54	NW	6	C	29.82	+0.03	45	43	-10	NNE	3	C	?	57	39	—		
Belfort ...	•	39	W	1	0	•	•	32	31	-6	W	2	0	•	50	32	0.28		
Lyons ...	29.71	48	W	1	C	29.76	-0.02	39	36	-10	W	1	0	•	62	38	0.08		
Nice ...	29.82	60	NW	6	C	29.41	-0.24	47	37	+2	NW	7	C	3	63	47	—		
Perpignan ...	29.76	62	NW	4	0	29.79	-0.18	49	43	-4	NW	3	C	•	71	47	—		
Biarritz ...	30.01	53	N	6	T	29.86	-0.19	49	47	-8	W	6	T	7	59	45	0.35		
PORTUGAL.																			
Corunna ...	•	•	•	•	•														
Lisbon ...																			

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

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

WEATHER CHARTS

for 8 a.m. on

Tuesday, 25th November,

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:

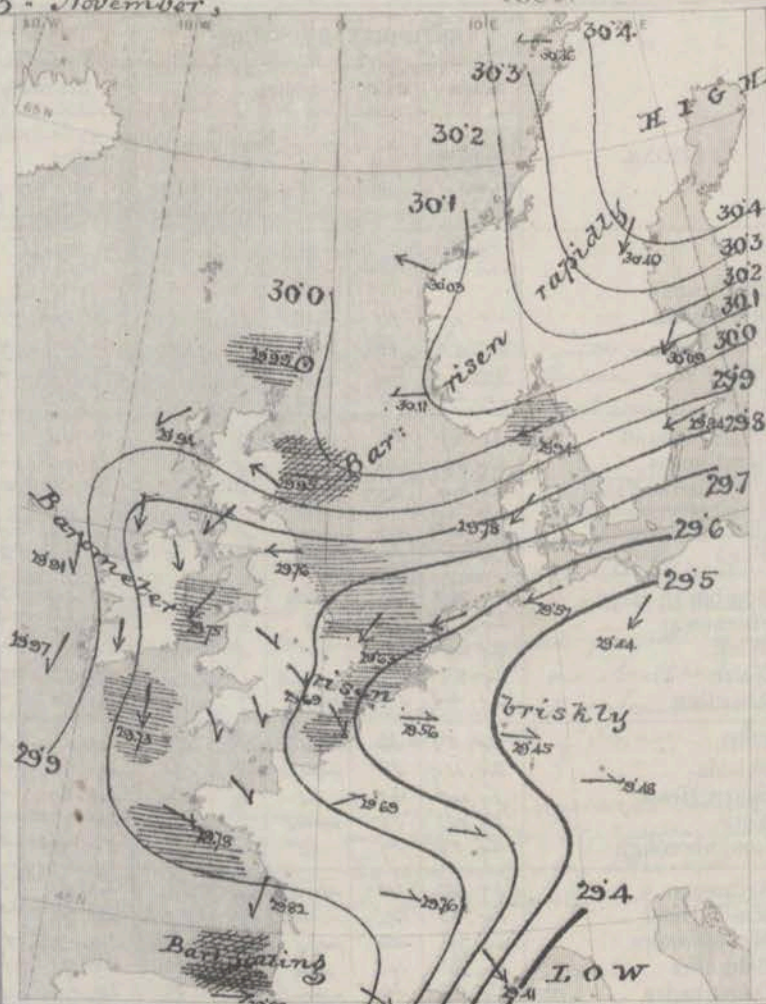
▨ = Rough. ▨ = High.

MEAN HEIGHT OF THE BAROMETER

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

During the 15 Years 1871-1885.

STATIONS.	MEAN READINGS.
Sumburgh Head	29.687
St. Andrew	29.707
Wick	29.726
Nairn	29.743
Aberdeen	29.756
Leith	29.793
Shields	29.813
York	29.844
Loughborough	29.876
Ardrossan	29.795
Donaghadee	29.811
Holyhead	29.835
Liverpool	29.852
Parsonstown	29.845
Valencia	29.864
Rosbe's Point	29.864
Pembroke	29.862
Sally	29.868
Jersey	29.923
Hurst Castle	29.898
Dover	29.893
LONDON	29.897
Oxford	29.833
Cambridge	29.885
Yarmouth	29.803



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.

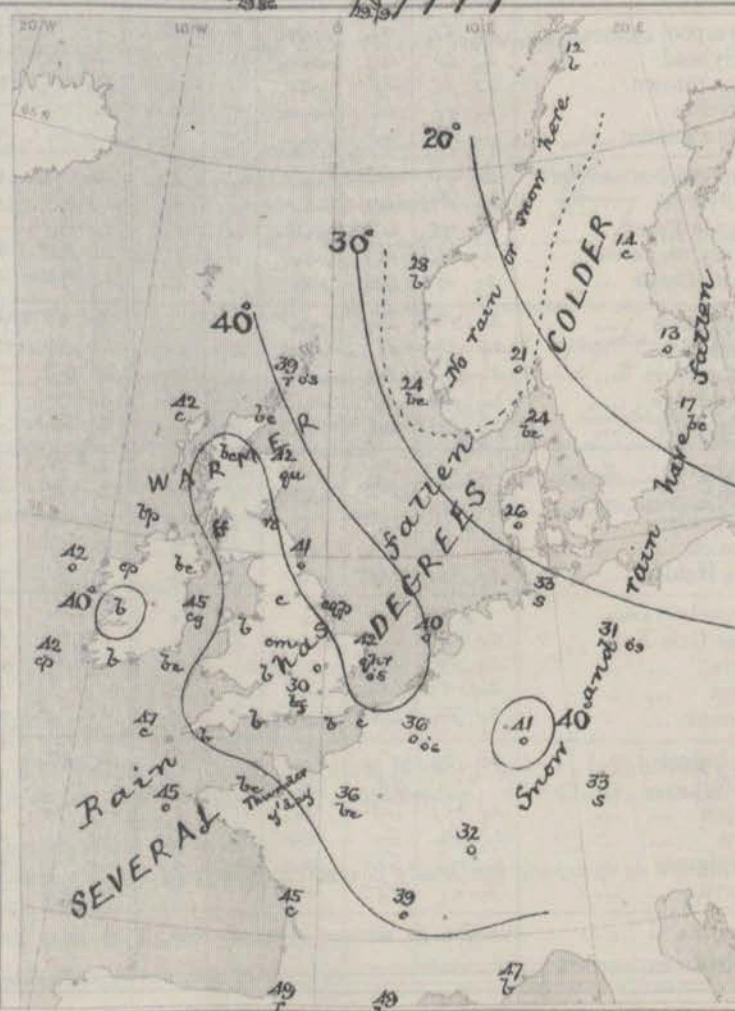
RAINFALL—A dotted line separates the districts in which rain has fallen from those where there has been none. Falls of 0.5 in. or more are quoted in figures.

MEANS OF TEMPERATURE IN SHADE, AND RAINFALL.

(For the month of November.)

STATIONS.	TEMPERATURE.				RAINFALL (inches.)
	Day. Max.	Day. Min.	At 8 a.m.	Wind.	
Sumburgh Head	45.3	37.4	41.5	39.8	4.24
St. Andrew	45.7	36.7	41.0	39.9	4.09
Wick	45.7	35.7	40.9	39.3	2.97
Nairn	44.7	35.5	39.1	37.5	2.32
Aberdeen	46.1	36.3	40.3	38.5	2.16
Leith	48.2	36.7	41.2	39.6	2.11
Shields	47.1	38.1	41.8	40.2	2.63
York	47.7	36.7	40.3	39.0	2.21
Loughborough	48.0	36.4	40.2	38.3	2.30
Ardrossan	47.7	34.9	42.6	40.8	3.52
Donaghadee	48.2	39.2	42.9	41.7	2.13
Holyhead	49.7	42.8	45.5	43.8	3.71
Liverpool	47.7	39.5	42.1	40.4	2.87
Parsonstown	49.1	38.9	41.7	40.0	2.84
Valencia	52.4	42.7	47.2	43.2	5.50
Rosbe's Point	51.1	41.8	43.9	41.3	4.50
Pembroke	50.2	41.7	46.7	44.3	3.96
Sally	52.5	46.7	50.0	48.0	3.70
Jersey	54.0	44.2	47.5	45.0	4.24
Hurst Castle	50.5	40.3	44.0	43.0	2.04
Dover	49.1	40.7	43.0	42.4	4.50
LONDON	49.6	37.9	42.0	40.5	5.14
Oxford	48.6	37.6	41.9	39.7	2.02
Cambridge	45.8	34.7	40.3	39.5	2.02
Yarmouth	47.5	39.1	42.0	41.8	3.13

NOTE—The Temperature means are for the 15 years 1871-85; the Rainfall means are mostly those for the 20 years 1869-85.



GENERAL SITUATION AT 8 A.M.

PRESSURE

Highest, 30.4 in: to 30.0 in: over Scandinavia; and about 30.0 in: off the west coast of Ireland.
 Lowest, 29.5 in: and less, over South Germany and Austria.
 Gradients moderate -- for E winds in the north of our Islands and over the North Sea, and for N in Ireland.
 Barometer still rising generally, and apparently decidedly.

TEMPERATURE

Highest, 43° at Perpignan and Biarritz, and 47° at Nice and Sicily.
 Lowest, 13° to 17° on the Swedish coast, 24° at Kopenhagen, 26° at Paris, 30° at Loughboro' and in London, 32° at Belfast, and 36° at Porto.
 On the grass in the south of London it was as low as 20° at 8 am.

WIND

E in Norway and Scotland, and blow strongly at most stations; NE strong along our northeast and east coasts.
 W and NW moderate in the west and south, NW moderate in the Channel.
 A gale from NE. was felt in bathtubs in the night.

WEATHER

Fair in most places, but showery in the extreme northwest.
 The rainfall yesterday was very general, and at some northern and northeastern stations it amounted to half an inch.
 Hail and sleet fell in some localities, and a thunderstorm occurred in the Channel Islands.

SEA

High at Aberdeen and Biarritz, rough in the northeast and east generally and at Holyhead, moderate or slight elsewhere.

PROBABLE CHANGES IN SYSTEM NOW PREVALENT

It is probable that the E wind will become more general, but decrease in strength, with still colder weather, and some cold passing showers.

FORECASTS

For the 24 hours ending at NOON on 26th Nov^r 1890.

DISTRICTS.

FORECASTS.

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

NE² winds, moderating; cold, some cold showers
 N² and NE² winds, moderate and light; cold, perhaps a little snow.

DISTRICTS.

FORECASTS.

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

NE² and N² winds, moderate; a few showers.
 N² breezes, moderate to light; fair as a whole.

WARNINGS

NONE ISSUED.

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

YESTERDAY'S 2 P.M. REPORTS.

	THER:		WIND		WEA	SEA		THER:		WIND		WEA	SEA
	BAR	D.	W.	D.				BAR	D.	W.	D.		
Skudeenæs ...	29.77	37	32	E	7	0	4	Holyhead ...	29.61	45	41	NW	7
Sumburgh Head ...	29.27	41	41	NW	4	0	6	Valencia ...	29.58	48	40	NW	6
Stornoway ...	29.48	39	38	NW	5	0	5	Scilly ...	29.80	49	46	NW	6
Aberdeen ...	29.39	37	36	NW	7	0	5	Jersey ...	29.63	52	46	NW	7
Shields ...	29.44	42	38	NW	4	0	4	Dungeness ...	29.38	49	43	N	6
Ardrossan ...	29.58	41	39	NW	2	0	1	London ...	29.48	47	43	NW	5
Malin Head ...	29.62	41	38	NW	6	0	4	Yarmouth ...	29.32	45	42	NW	4
Mallaghmore ...	29.77	44	40	NW	6	0	5	Rochefort ...	29.81	55	51	NW	6
Belmullet ...	29.87	43	40	NW	5	0	*						

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

Weather very unsettled generally, squalls of cold rain prevalent in many parts of our Islands, even in the north of Scotland, in several parts of Sweden, and at Moscow, rain in many parts of Germany. Temporary bright intervals reported in many localities. Showers of cold rain and hail experienced over our Islands and France during day, as well as in Sweden, but amounts reported not large, thunder and lightning observed in several parts of the English Channel.

Temperature falling fast over northern and northwestern Europe, rising over the Mediterranean and southeastern Europe. Morning readings exceeding 50° at the southeastern, southern, and western coast stations only, and exceeding 40° in the west and south of the British Isles. Much lower elsewhere; ranging between zero and minus 19° F. over Ireland, northern and central Russia, much below the freezing point over the eastern and northern parts of the Baltic, and as low as 36° to 37° in the northeast of Scotland. Continuing to fall over our Islands during day, but rising to between 60° and 71° in the south of France.

Wind fresh to a gale from N. and NW. in our Islands, blowing a gale from NW. and W. in the Channel, SW and W along to a gale, over western and southern Germany, and blowing a strong gale from the E. over Northern Europe. The E. wind spreading to our northeast coast later, and blowing a gale over Scandinavia.

Barometer highest, 30.4 in.: to 29.4 in.: over Scandinavia, Lapland, Finland, and the north of Russia, and 30.2 in.: to 29.8 in.: over southeastern Europe and the west of Ireland; lowest below 29.0 in.: over the greater part of the North Sea, the Netherlands, Denmark and north Germany, and below 28.9 in.: in three distinct minima - one over Holland, another over the Sound, and the third near Wilna. Rising quickly in our Islands later, but local disturbances appearing off the northeast of Scotland at night.

EXPLANATION OF COLUMNS GIVEN ON PAGE 1.

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

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

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

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

DAILY WEATHER REPORT.

for *Wednesday, 26th November, 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.		
	Reading at 32° F. and Sea Level.	TEMP.	WIND.			BAROMETR.		SHADE TEMP.			WIND.			Sea (1 to 5).	SHADE TEMP.			
			DIRE.	Force (1 to 12).	Weather.	Reading at 32° F. and Sea Level.	Difference from 8 a.m. yesterday.	Dry.	Wet.	Difference from 8 a.m. yesterday.	DIRE.	Force (1 to 12).	Weather.		Max.	Min.	Amount of Rainfall.	
SCANDINAVIA.	Haparanda ...																	
	Hernösand ...	30.57	12	N	2	c	30.55	+15	8	7	-6	N	0	bc	*	23	7	0.08
	Stockholm ...	30.37	14	NNE	4	c	30.48	+39	19	17	+6	NE	4	c	*	21	7	
	Wishby ...	30.15	17	E	6	bc	30.26	+42	19	18	+2	NE	4	bc	*	21	16	0.16
	Bodö ...	30.52	17	E	2	c	30.39	+03	26	24	+14	SW	4	0	2	?	10	
	Christiansund ...	30.37	24	ESE	5	b	30.36	+33	26	25	-2	ESE	3	c	2	28	23	
	Skudesnaes ...	30.37	23	ENE	1	b	30.47	+36	24	20	0	SSW	2	0	2	?	?	
	Christiania Fjord (Former) ...	30.38	21	NNE	5	c	30.30	+37	19	16	-2	NNE	5	0	2	21	18	
	Skagen (The Scaw) ...	30.27	22	ENE	6	bc	30.39	+45	22	19	-2	NE	5	bc	4	25	21	
	Fanö ...	30.15	22	NE	6	b	30.25	+47	22	21	-4	NE	5	b	*	27	21	
BRITISH ISLANDS.	Suraburgh Head ...	30.14	37	SSE	4	r	30.30	+31	39	37	0	SSE	3	c	5	40	35	0.92
	Stornoway ...	30.21	40	NE	5	bc	30.28	+34	39	38	-3	N	4	0	4	45	35	0.05
	Wick ...	30.15	40	SSE	3	0	30.34	?	39	38	-2	SE	3	c	2	42	37	
	Nairn ...	30.28	37	Z	0	c	30.32	+40	32	31	-6	ESE	1	c	1	40	31	0.05
	Aberdeen ...	30.22	35	E	3	c	30.38	+43	34	30	-6	ESE	3	bc	6	40	34	0.05
	Leith ...	30.17	39	SE	1	bc	30.33	+51	34	34	-3	SE	1	ofsp	*	43	32	0.07
	Shields ...	30.09	38	NE	6	0	30.27	+51	35	32	-6	NE	3	csp	6	43	32	0.02
	Spurn Head ...	29.94	38	NE	7	0	30.20	+51	31	31	-12	NE	6	sq	6	43	30	0.11
	York ...	30.04	35	NE	1	bc	30.26	+47	32	31	-4	NNE	1	c	*	42	28	0.05
	Loughborough ...	29.98	36	NE	3	c	30.21	+48	30	29	0	NNE	3	csp	*	41	29	0.05
GERMANY & HOLLAND.	Ardrossan ...	30.19	38	E	2	0	30.32	+52	35	34	0	ENE	1	om	0	41	33	
	Malla Head ...	30.15	43	ESE	4	b	30.24	+47	35	35	-9	SSE	4	0	2	45	34	0.27
	Mullaghmore ...	30.14	44	NE	5	c	30.29	+44	36	35	-6	Z	0	0	0	47	33	0.07
	Belmullet ...	30.15	44	ENE	3	bc	30.28	+37	38	37	-4	E	1	c	*	45	33	0.22
	Donaghadee ...	30.14	42	E	5	b	30.31	+55	39	35	-6	E	5	m	3	46	39	
	Liverpool (Elston) ...	30.04	36	NE	3	b	30.27	+52	29	28	-5	NE	2	b	2	41	29	
	Holyhead ...	30.04	41	ENE	4	c	30.27	+52	35	32	-10	E	3	bc	2	46	35	
	Parsonstown ...	30.06	39	Z	0	b	30.28	+41	32	31	-3	Z	0	0	*	45	30	
	Valencia ...	30.04	42	NNE	2	b	30.29	+32	36	34	-6	N	1	c	1	47	34	0.05
	Roche's Point ...	30.00	42	N	4	b	30.24	+37	36	34	-5	NNE	3	c	3	46	35	
FRANCE AND BELGIUM.	Pembroke (St. Ann's Hc.) ...	29.93	40	ENE	3	bc	30.22	+48	32	31	-8	ENE	3	b	2	43	31	
	Scilly ...	29.79	46	N	5	bc	30.06	+33	38	36	-9	ENE	6	c	5	47	36	0.16
	Prawle Point ...	29.82	40	NE	4	c	30.08	+35	34	32	-2	NE	8	c	6	48	32	
	Jersey (St. Aubin's) ...	29.76	44	E	3	bc	29.99	+27	36	35	-6	E	4	chsp	4	48	34	0.32
	Hurst Castle ...	29.81	42	NNE	5	cq	30.09	+38	33	32	-1	NE	6	b	3	44	33	
	Dangeness ...	29.76	42	NE	6	bc	30.02	+39	31	30	-1	E	7	b	5	43	29	0.28
	London ...	29.86	39	NNE	5	0	30.10	+41	31	29	+1	NNE	3	bc	*	42	29	0.01
	Oxford ...	29.96	34	NNE	3	b	30.16	+44	28	28	-3	N	3	b	*	40	28	
	Cambridge ...	29.90	35	NE	2	b	30.16	+46	29	29	+4	NE	1	b	*	42	26	0.01
	Yarmouth ...	29.88	39	ENE	7	cq	30.10	+47	33	32	+9	ENE	8	cq, su	6	42	30	0.09
GERMANY & HOLLAND.	Cuxhaven ...	29.94	26	NE	6	c	30.11	+54	26	25	-7	NE	6	b	*	33	24	
	Berlin ...	29.80	25	NE	4	b	29.99	+55	11	9	-20	NE	5	s	*	31	10	
	Wiesbaden ...	*	*	*	*	*	29.91	+46	24	23	-17	NE	2	b	*	43	23	0.08
	Munich ...	?	?	?	?	?	29.71	+23	17	16	-16	NNE	5	0	*	34	17	0.47
	The Helder ...	29.97	33	ENE	4	c	30.13	+52	29	27	-11	ENE	4	c	3	?	28	
	Brussels (9 a.m.) ...	*	*	*	*	*	30.05	+49	23	22	-13	NE	4	c	*	40	23	
	Cape Gris Nez ...	29.76	35	ENE	4	bc	30.02	+42	27	27	-13	E	5	b	5	48	27	
	Paris ...	29.73	39	N	3	bc	29.92	+23	29	27	-7	NE	5	bc	*	45	28	
	Brest ...	29.77	40	E	2	c	29.95	?	39	38	-6	ENE	2	0	3	54	36	0.47
	Lorient ...	29.73	42	NNE	3	b	29.89	+11	40	33	-4	ENE	5	b	4	48	32	0.12
FRANCE AND BELGIUM.	Rochefort ...	29.68	46	SE	3	0	29.77	-05	37	35	-8	NE	4	bc	*	54	30	0.08
	Belfort ...	?	42	W	1	0	?	?	32	28	0	W	1	s	*	48	28	0.04
	Lyons ...	29.75	34	W	1	bc	29.71	-05	31	30	-8	N	2	s	*	42	29	0.08
	Nice ...	29.43	48	N	5	b	29.49	+08	38	33	-9	NE	5	b	2	59	36	
	Perpignan ...	29.68	46	NE	1	b	29.62	-17	39	38	-10	SSW	1	r	*	62	32	
	Biarritz ...																	
PENINSULA.	Corunna ...	*	*	*	*	*												
	Lisbon ...	29.96	52	NW	1	c	29.85	-17	46	43	-3	N	4	bc	3	57	45	0.04

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

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

WEATHER CHARTS

for 8 a.m. on

Wednesdays 26th November

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

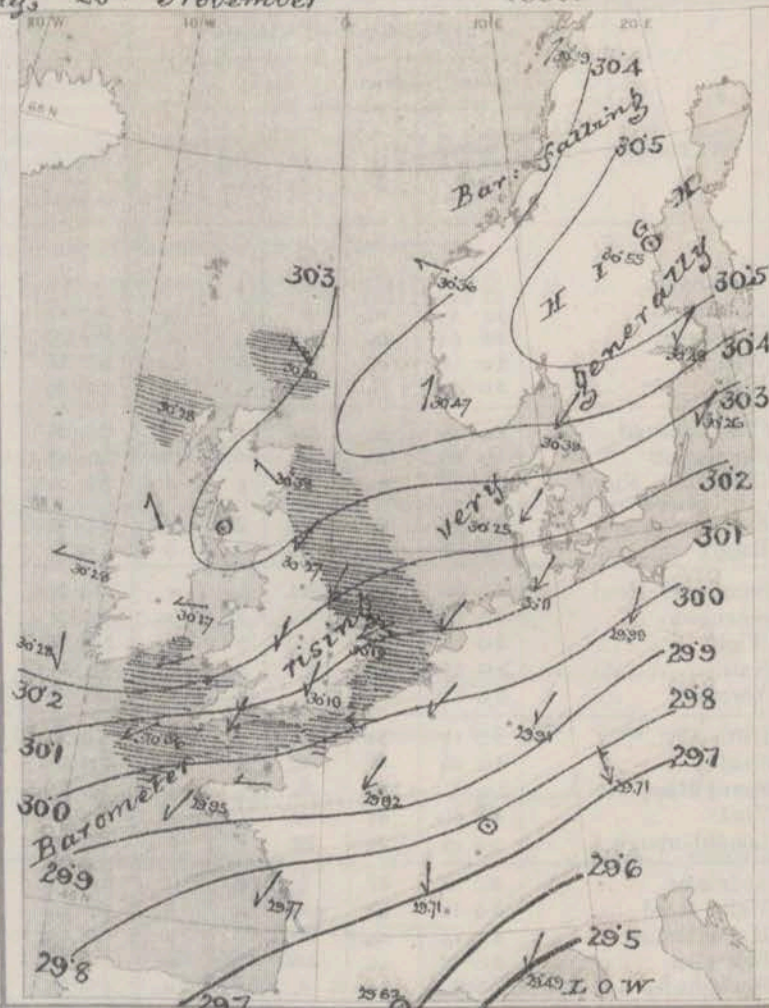
at 8.0 a.m. for the month of November.

During the 15 Years 1871-1885.

STATIONS.

MEAN READINGS.

STATIONS.	MEAN READINGS.
Sumburgh Head	29.687
Stornoway	29.707
Wick	29.726
Nairn	29.743
Aberdeen	29.756
Leith	29.793
Shields	29.815
York	29.841
Loughborough	29.876
Ardrossan	29.795
Donaghadee	29.811
Holyhead	29.835
Liverpool	29.852
Parsonstown	29.848
Valencia	29.864
Rocha's Point	29.864
Penbrook	29.802
Sally	29.808
Jersey	29.923
Hurst Castle	29.898
Dover	29.893
LONDON	29.897
Oxford	29.893
Cambridge	29.885
Yarmouth	29.863



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.

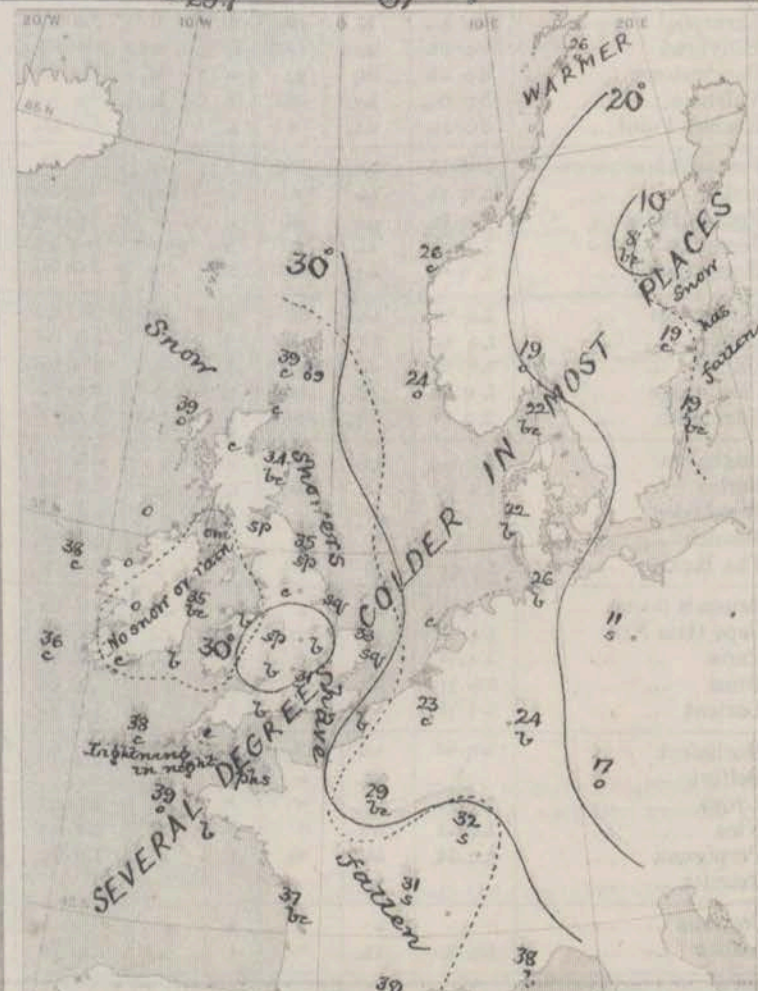
RAINFALL—A dotted line separates the districts in which rain has fallen from those where there has been none. Falls of 0.5 in. or more are quoted in figures.

MEANS OF TEMPERATURE IN SHADE, AND RAINFALL.

(For the month of November.)

STATIONS.	TEMPERATURE.				RAINFALL (Inches)
	Daily Max.	Daily Min.	at 8 a.m.	at 8 a.m.	
			Dry.	Wet.	
Sumburgh Head	45.3	37.1	41.5	39.8	4.24
Stornoway	45.7	39.7	41.0	39.9	4.60
Wick	45.7	35.7	40.9	39.3	2.37
Nairn	44.7	35.5	39.1	37.5	2.32
Aberdeen	46.1	36.3	40.3	38.5	3.16
Leith	48.2	36.7	41.2	39.6	2.11
Shields	47.1	38.1	41.8	40.2	2.63
York	47.7	36.1	40.3	39.0	2.21
Loughborough	48.0	36.4	40.2	38.9	2.30
Ardrossan	47.7	35.9	42.6	40.8	3.92
Donaghadee	48.2	39.2	42.9	41.7	3.13
Holyhead	49.7	42.8	45.5	43.8	3.71
Liverpool	47.7	39.5	42.1	40.4	2.87
Parsonstown	49.1	36.9	41.7	40.0	2.84
Valencia	52.4	42.7	47.2	45.2	5.50
Rocha's Point	51.4	41.8	45.9	44.3	4.56
Penbrook	50.2	45.7	46.7	44.7	3.99
Sally	52.5	46.7	50.0	48.0	3.70
Jersey	51.9	44.2	47.5	45.6	4.24
Hurst Castle	50.5	40.3	44.6	43.0	2.28
Dover	49.1	40.7	44.0	42.4	3.56
LONDON	49.6	37.3	42.0	40.5	2.14
Oxford	48.6	37.6	41.0	39.7	2.90
Cambridge	48.8	41.7	40.5	39.5	2.02
Yarmouth	47.6	39.1	42.0	41.8	3.15

NOTE—The Temperature means are for the 15 years 1871-85; the Rainfall means are mainly those for the 20 years 1870-89.



GENERAL SITUATION AT 8 A.M.

PRESSURE

Highest, 30.5 ins: and upwards, in Scandinavia.
 Lowest, 29.5 ins: and less, in a depression lying over the Gulf of Genoa.
 Gradients moderate or slight generally.
 Barometer falling in the north of Scandinavia, but rising elsewhere.

TEMPERATURE

Highest, 46° at Lisbon, 40° at Louisa, 39° at Brest and Perpignan, and 38° at Bismarck, Sicily, and Nice.
 Lowest, 8° at Hammer, 11° at Berlin, 17° at Munich, 13° at Stockholm, Vindhy, and Vindhy, and 22° at Hagen and Paris.
 Frost occurred last night in many parts of the United Kingdom; in London the thermometer on the grass fell to 22°.

WIND

NE³ or E² over the greater part of Western Europe, but SE² in Scotland and the north of Ireland, and SW² at some of the Norwegian stations.
 On the eastern and southern coasts of England the NE² wind blows with the force of a moderate to fresh gale.

WEATHER

Fair generally, but snow reported in the east and southeast of England, as well as at some of the French and German stations.
 Showers of hail or snow fell yesterday in many parts of the United Kingdom, and lightning was seen at Bally and Jersey at night.

SEA

Rough on most parts of our northern, eastern, and southern coasts, slight or smooth in the west.

PROBABLE CHANGES IN SYSTEM NOW PREVALENT

There are at present no signs of any material change in the weather, but the strong NE² winds on our south and east coasts seem likely to subside gradually.

FORECASTS

For the 24 hours ending at NOON on 27th Nov^r. 1890.

DISTRICTS.

FORECASTS.

- | | | |
|---|------------------|---|
| 0 | SCOTLAND NORTH | { SE ² and S ² winds, light or moderate; fair generally. |
| 1 | SCOTLAND EAST | |
| 2 | ENGLAND N.E. | NE ² winds, moderate or fresh; unsettled, some snow showers. |
| 3 | ENGLAND EAST | Same as No 5 |
| 4 | MIDLAND COUNTIES | Same as No 2. |
| 5 | ENGLAND SOUTH | E ² and NE ² winds, fresh or strong; changeable, some snow showers. |

DISTRICTS.

FORECASTS.

- | | | |
|----------|---------------|---|
| 6 | SCOTLAND WEST | { E ² winds, light; fair generally. |
| 7 | ENGLAND N.W. | |
| 8 | ENGLAND S.W. | Same as No 5 |
| 9 | IRELAND NORTH | { E ² winds, moderate; fair generally. |
| 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.		
Skudesnes ...	30.25	26	22	ESE	4	b	4	Holyhead ...	29.40	43	41	ESE	4	bc	4		
Sumburgh Head	30.08	37	37	SW	2	r	5	Valencia ...	29.94	45	43	N	2	cp	2		
Stornoway ...	30.12	44	43	NE	2	c	3	Scilly ...	29.75	46	44	N	5	cp	5		
Aberdeen ...	30.15	38	34	E	6	cypu	4	Jersey ...	29.72	45	42	ESE	2	bc	2		
Shields ...	29.98	41	36	NE	5	o	1	Dungeness ...	29.69	41	41	NE	4	r	2		
Ardrossan ...	30.06	39	38	E	2	bef	1	London ...	29.75	42	41	ENE	3	o	*		
Malin Head	29.98	46	41	SE	6	o	3	Yarmouth ...	29.75	41	39	ENE	7	cghg	5		
Mullaghmore	29.94	45	42	ENE	4	cp	3	Rocheport ...	29.77	52	46	SE	3	b	*		
Belmullet ...	29.97	45	43	ENE	6	op	*										

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

Weather in morning unsettled and cold, squally on our northeast and east coasts, and locally in some other parts of the Kingdom, with passing showers of cold rain or snow. Snow falling in several parts of Poland and Southern Russia. Sky clear in many other places, but fog or haze prevailed in some localities. Rain or snow in many places later — heavily at Sumburgh Hd., and in considerable quantity at Brest and Munich.

Temperature again fallen over the British Isles and greater part of Europe. Morning readings exceeding 50° on the southern and southeastern shores of the Mediterranean (61° at Malta and Algiers) and exceeding 40° over the western parts of the British Isles and the western and southern parts of France, lower elsewhere. Lowest — from F to -18° over the northern half of Russia, +1° at Riga, 7° at Uleaborg, 13° at Stockholm, and much below 32° all over Scandinavia and Denmark. Not touching 50° in any part of our Islands during day.

Wind strong to a gale from between E. and NE. over the Gulf of Finland, the Baltic, the eastern shores of the North Sea, and our own northeastern and eastern stations, N¹ and more moderate in the west, NW¹ in the Channel and north of France. W¹ and NW¹ (a gale) in the southwest and south of France; W¹ over Austria, S¹ in the south of Russia. Veering to NE. all over our Islands later, and blowing very strongly in the Channel, falling light in the north of Scotland.

Barometer highest 30.4 ins. to 30.0 ins. over Northern Europe, 30.0 ins. to 29.8 ins. over Spain, the Bay of Biscay, and west of Ireland. Lowest, 29.0 ins. to 29.3 ins. in a depression over Southern Russia, and somewhat low in secondary "V" shaped disturbances over Germany and the Netherlands and England. Rising in our Islands all day, but falling in the 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 *Thursday, 27th November, 1890.*
Issued by the Meteorological Office, 63, Victoria Street, London. R. H. SCOTT, Secretary.

Issued by the Meteorological Office, 55, Abchurch Lane, London, E.C. 4. H. 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.	Dir.	Force. (0 to 12.)		Reading at 32° F. and Sea Level.	Difference from 8 a.m. yesterday.	Dry.	Wet.	Difference from 8 a.m. yesterday.	Dir.	Force. (0 to 12.)			Max.	Min.	
SCANDINAVIA.																	
Haparanda ...	30.14	8	2	0	bc	29.91	- .47	13	13	+ 28	Sw	2	0	*	?	-8	-
Hernösand ...	30.39	-1	2	0	b	30.24	- .31	-4	-4	- 12	NNW	2	bc	*	18	?	-
Stockholm ...	30.46	14	2	0	b	30.43	- .05	10	9	- 9	2	0	b	*	19	10	-
Wisby ...	30.24	21	E	4	bc	30.34	+ .08	21	20	+ 2	E	4	0	*	27	14	0.20
Bodö ...	30.23	26	Sw	4	0	30.01	- .38	34	32	+ 8	Sw	4	0	*	?	25	-
Christiansund	30.26	31	ESE	3	b	30.16	- .20	33	30	+ 7	ESE	1	b	2	34	?	-
Skudesnaes ...	30.43	27	ESE	4	0	30.36	- .11	29	26	+ 5	SE	2	0	2	?	?	-
Christiania Fjord (Færdor)	30.45	19	N	4	b	30.42	- .08	19	18	0	N	2	c	1	19	14	-
Skagen (The Scaw)	30.39	23	E	2	b	30.36	- .03	27	25	+ 5	SE	3	0	3	27	21	-
Fanö ...	30.24	23	NE	5	b	30.16	- .09	25	24	+ 3	ENE	7	bc	*	25	21	-
BRITISH ISLANDS.																	
Sumburgh Head	30.29	38	W	3	bc	30.17	- .13	39	37	0	Sw	3	c	4	40	36	-
Sornoway ...	30.26	39	W	3	0	30.19	- .09	35	34	- 4	N	2	bc	2	44	32	-
Wick ...	30.34	34	S	3	b	30.23	- .11	32	32	- 7	W	2	b	1	39	32	-
Nairn ...	30.32	27	2	0	b	30.25	- .07	21	20	- 11	2	0	b	1	39	19	-
Aberdeen ...	30.36	33	E	2	bcm	30.28	- .10	26	25	- 8	NW	1	bcm	5	37	26	-
Leith ...	30.33	34	SSE	1	c	30.25	- .08	28	28	- 6	NW	1	sf	*	36	28	0.30
Shields ...	30.28	34	E	4	c	30.16	- .11	36	32	+ 1	NE	4	c	5	38	29	0.03
Spurn Head ...	30.18	32	ESE	5	bc	30.03	- .17	33	31	+ 2	ESE	7	shq	6	36	29	0.07
York ...	30.25	31	ESE	1	bc	30.13	- .13	29	29	- 3	NE	1	bc	*	37	24	0.05
Loughborough	30.22	28	NE	2	b	30.09	- .12	27	26	- 3	N	2	csp	*	35	26	0.05
Ardrossan ...	30.32	34	ESE	1	c	30.25	- .07	26	26	- 9	ESE	2	bcm	1	38	26	-
Main Head ...	30.28	36	S	2	0	30.22	- .02	33	31	- 2	SSE	2	c	1	40	32	-
Mullaghmore ...	30.29	37	SE	3	b	30.22	- .07	33	31	- 3	E	4	b	2	40	31	-
Belmullet ...	30.26	36	SSE	2	bc	30.20	- .08	32	31	- 6	E	1	b	*	41	32	-
Donaghadee ...	30.31	37	E	4	bc	30.23	- .08	34	32	- 5	NE	4	b	2	40	32	-
Liverpool (Bidston)	30.27	31	NNE	2	b	30.17	- .10	28	27	- 1	NNE	2	b	2	35	27	-
Holyhead ...	30.26	35	ESE	3	bc	30.16	- .11	34	32	- 1	E	3	c	2	39	30	0.03
Parsonstown ...	30.28	33	2	0	b	30.20	- .08	30	29	- 2	2	0	c	*	36	29	-
Valencia ...	30.25	37	ESE	1	b	30.17	- .12	28	27	- 8	2	0	b	1	43	27	0.01
Roche's Point...	30.25	33	NE	3	b	30.17	- .07	28	27	- 8	NE	3	b	3	40	27	-
Pembroke (St. Ann's Hd.)	30.21	35	ESE	4	b	30.13	- .09	31	28	- 1	ESE	3	b	2	36	28	-
Scilly ...	30.11	38	ESE	5	bc	30.05	- .01	32	31	- 6	ESE	5	c	4	41	30	-
Prawle Point ...	30.12	33	NE	6	bc	30.06	- .02	21	19	- 13	NNW	4	bc	2	48	19	-
Jersey (St. Aubin's)	30.04	33	ESE	4	cm	30.01	+ .02	29	26	- 7	NNW	3	qsp	3	42	25	0.06
Hurst Castle ...	30.11	34	NE	5	bc	30.02	- .07	28	27	- 5	N	4	bc	3	44	26	-
Dungeness ...	30.04	32	E	7	sq	29.92	- .10	28	27	- 3	NE	5	5	3	43	25	?
London ...	30.12	30	NE	2	b	29.99	- .11	29	28	- 2	NNE	3	0	*	34	26	-
Oxford ...	30.17	27	N	3	b	30.05	- .11	26	25	- 2	N	3	c	*	35	24	0.03
Cambridge ...	30.17	25	NE	1	b	30.01	- .15	28	28	- 1	NW	1	s	*	35	22	0.03
Yarmouth ...	30.12	30	E	6	sq	29.97	- .13	31	30	- 2	E	6	c	6	33	28	0.08
GERMANY & HOLLAND.																	
Cuxhaven ...	29.18	28	E	2	0	29.15	+ .04	14	13	- 12	SE	3	c	*	27	14	-
Berlin ...	30.12	9	E	4	c	30.13	+ .14	10	10	- 1	E	4	0	*	12	9	-
Wiesbaden ...	*	*	*	*	*	29.91	+ .00	16	15	- 8	NE	2	0	*	30	10	-
Munich ...	29.80	15	NE	2	0	29.75	+ .04	15	14	- 2	E	6	0	*	19	14	0.04
The Helder ...	30.13	30	ESE	3	bc	30.03	- .10	17	16	- 12	E	2	bc	3	30	17	-
FRANCE AND BELGIUM.																	
Brussels (9 a.m.)	*	*	*	*	*	29.96	- .09	10	9	- 13	ESE	3	bc	*	26	10	0.04
Cape Gris Nez	30.06	26	E	5	0	29.92	- .10	22	22	- 5	E	2	s	4	28	21	-
Paris ...	30.00	25	NE	3	bc	?	?	21	20	- 8	N	1	bc	*	31	20	-
Brest ...	29.99	35	E	2	0	30.04	+ .09	31	29	- 8	E	4	0	*	?	28	0.08
Lorient ...	29.98	32	NE	6	b	30.01	+ .12	24	23	- 16	NE	2	b	2	43	23	-
Rochefort ...	29.87	31	NE	6	b	29.91	+ .14	24	24	- 13	NE	6	b	*	43	21	-
Belfort ...	?	36	S	1	0	?	?	22	16	- 10	S	1	c	*	43	20	-
Lyons ...	29.80	26	N	4	b	29.84	+ .13	19	17	- 12	N	3	s	*	?	?	-
Nice ...	29.51	41	NE	3	c	29.55	+ .06	40	35	+ 2	ESE	3	c	3	50	38	-
Perpignan ...	29.61	42	W	1	0	29.71	+ .09	34	30	- 5	NW	2	0	*	46	31	0.12
Biarritz ...	29.73	40	E	5	0	29.85	+ .14	26	25	- 16	E	3	0	2	43	25	-
OTHER PLACES.																	
Lisbon ...	29.74	47	W	4	b	29.74	- .11	40	37	- 6	W	4	b	5	54	39	-

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, 27th November,

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.

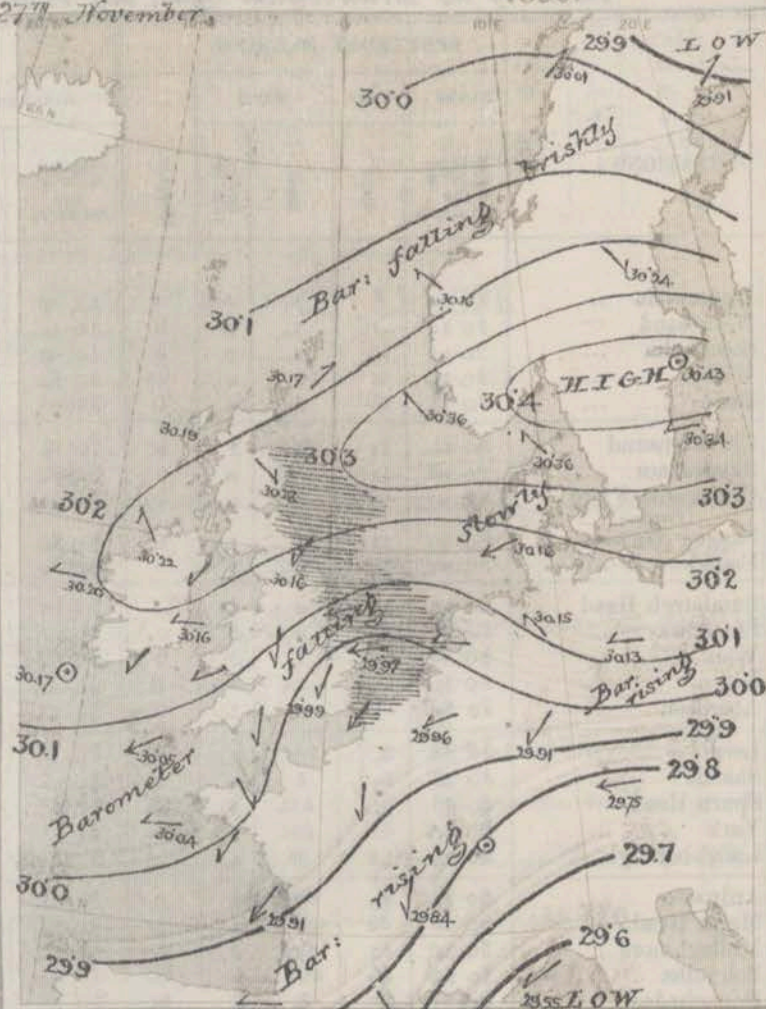
— Rough. — High.

MEAN HEIGHT OF THE BAROMETER

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

During the 15 Years 1871—1885.

STATIONS.	MEAN READINGS.
Sumburgh Head	29.687
Stornoway	29.707
Wick	29.726
Nairn	29.743
Aberdeen	29.759
Leith	29.793
Shields	29.813
York	29.844
Loughborough	29.870
Androsan	29.703
Donaghadee	29.811
Holyhead	29.835
Liverpool	29.852
Parsonstown	29.848
Valencia	29.864
Roche's Point	29.894
Pembroke	29.862
Sally	29.898
Jersey	29.923
Hurst Castle	29.898
Dover	29.895
LONDON	29.897
Oxford	29.893
Cambridge	29.885
Yarmouth	29.863



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.

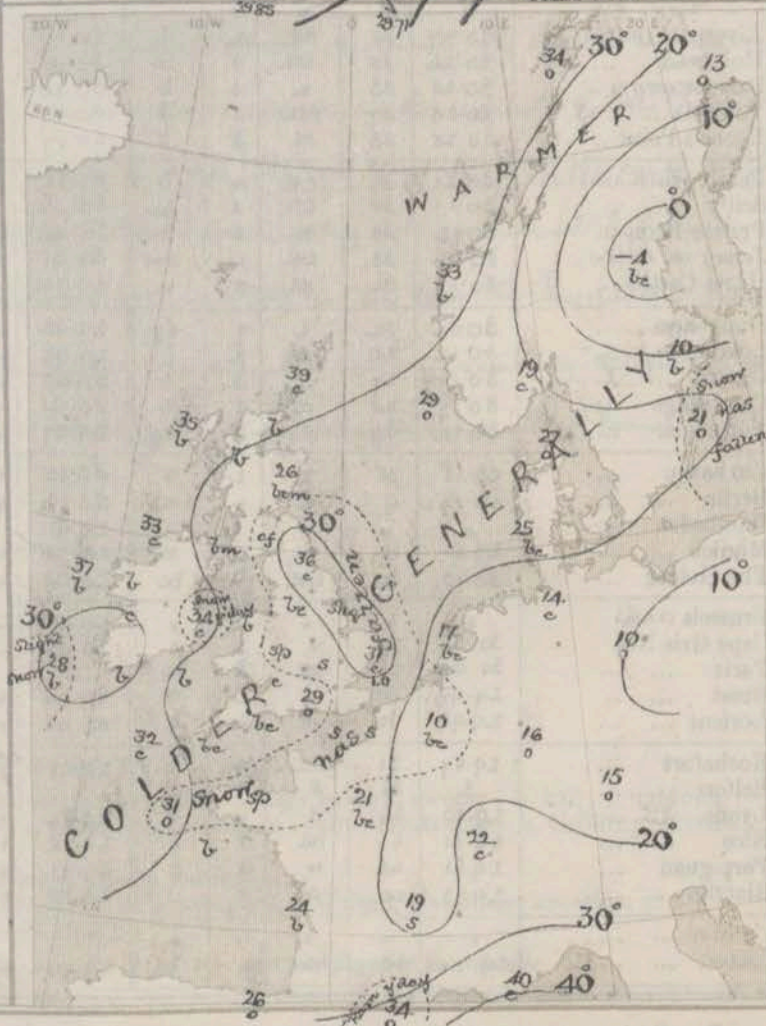
RAINFALL—A dotted line separates the districts in which rain has fallen from those where there has been none. Falls of 0.5 in. or more are quoted in figures.

MEANS OF TEMPERATURE IN SHADE, AND RAINFALL.

(For the month of November.)

STATIONS.	TEMPERATURE.				RAINFALL (Inches)
	Daily Max.	Daily Min.	24 Hrs. Dry.	24 Hrs. Wet.	
Sumburgh Head	45.3	37.4	41.5	39.8	4.24
Stornoway	45.7	36.7	41.0	39.9	4.60
Wick	45.7	35.7	40.9	39.3	2.97
Nairn	44.7	35.7	39.1	37.5	2.32
Aberdeen	46.1	35.3	40.3	38.5	3.16
Leith	48.2	36.7	41.2	39.6	2.11
Shields	47.1	38.1	41.8	40.2	2.61
York	47.7	38.1	40.3	39.0	2.21
Loughborough	48.0	36.4	40.2	38.9	2.36
Androsan	47.7	34.9	42.6	40.8	3.92
Donaghadee	48.2	33.2	42.9	41.7	3.19
Holyhead	49.7	42.3	45.5	43.8	3.24
Liverpool	47.7	39.3	43.1	40.4	2.87
Parsonstown	49.1	39.9	41.7	40.0	2.84
Valencia	52.4	42.7	47.2	45.2	6.50
Roche's Point	51.1	41.8	45.9	44.3	4.90
Pembroke	50.2	43.7	46.7	44.7	3.79
Sally	52.5	46.7	49.6	48.0	3.79
Jersey	51.9	44.2	47.5	45.6	4.24
Hurst Castle	50.6	40.3	44.0	43.0	2.08
Dover	49.1	40.7	44.0	42.4	3.06
LONDON	49.6	41.9	42.0	40.5	2.14
Oxford	48.6	37.6	41.0	39.7	2.30
Cambridge	48.8	35.7	40.3	39.5	2.02
Yarmouth	47.5	34.1	42.9	41.8	3.15

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



GENERAL SITUATION AT 8 A.M.

PRESSURE

Highest, 30.4 in: and upwards, in the south of Scandinavia.
Lowest, 29.6 in: and less, in a depression lying over the Gulf of Genoa; 30.0 in: and less, in the north of Scandinavia.
Gradients slight generally.

TEMPERATURE

Barometer falling at all but the French stations, — briskly in the north of Scandinavia.
Highest, 40° at Nice and Salon, 39° at Lumburg, 38° at Rouen, and 37° at Paris and Perpignan.
Lowest, -4° at Konoïand, +10° at Stockholm, Berlin, and Brussels, 14° at Copenhagen, and 15° at Munich.
During last night the thermometer fell to 19° at Konoï and Poulst Point, 22° at Cambridge, and 24° at York and Oxford.

WIND

Chiefly NE, but SE in the west of Norway, and SW in the north of Scandinavia and the extreme north of Scotland.
On the east coast of England the NE wind blows strongly.

WEATHER

Clear over the greater part of Western Europe, but dull in Germany, and also in the north of Scandinavia.
Snow is falling in the east and southeast of England, as well as at Leith and Lyons.
In the course of the past 24 hours heavy snow has fallen at some of our eastern and southeastern stations.

SEA

Rough on the east coasts of Great Britain, but moderate to smooth elsewhere.

PROBABLE CHANGES IN SYSTEM NOW PREVALENT

Some small irregularities of pressure are shown off the east and southeast of England and are likely to occasion snow showers in those localities. Large depressions are apparently beginning to travel across the north of Scandinavia.

FORECASTS

For the 24 hours ending at NOON on

28th Nov^r.

1890.

DISTRICTS.

FORECASTS.

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

SW² winds, light or moderate; fair generally.
Light variable breezes; fair generally, but local fogs.
Same as No 5.
NE³ breezes, moderate or fresh; changeable, some snow showers.

DISTRICTS.

FORECASTS.

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

WARNINGS

Same as No 1.
E² winds, moderate; fair generally.

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 ...	30.48	26	22	SSE	2	0	2		Holyhead ...	30.27	38	33	ENE	3	bce p
Sumburgh Head ...	30.31	37	36	SW	3	bc	5		Valencia ...	30.27	40	38	2	0	0
Stornoway ...	30.27	44	42	NW	3	bc	3		Scilly ...	30.11	40	37	NE	6	bc
Aberdeen ...	30.38	36	32	ESE	2	bce p	5		Jersey ...	30.02	37	34	E	5	bc
Shields ...	30.28	36	33	ENE	4	C	6		Dungeness ...	30.05	32	30	E	6	C
Ardrossan ...	30.33	38	35	ENE	1	0	1		London ...	30.12	34	31	NE	3	c m s p
Malin Head ...	30.29	39	36	S	3	0	2		Yarmouth ...	30.11	31	30	E	4	c g s t
Mullaghmore ...	30.29	39	36	ESE	3	6	2		Rochefort ...	29.82	36	33	NE	6	0
Belmullet ...	30.27	41	40	SSE	2	bc	*								

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

Weather fair as a whole over Scandinavia, Scotland, and Ireland, but unsettled and variable over England, central, western, and south-western Europe—clear in some places, dull and rainy in others with snow on our east coast and in Germany. Heavy snow over the southern counties of England later, and a considerable quantity at Louth; amounts reported slight elsewhere, thunder reported at Lyons.

Temperature low generally, except in the extreme south. Highest morning values 50° to 61° over the southern parts of the Mediterranean, but readings below 40° in nearly all other parts of Europe and as low as zero to minus 24° F. over central and northern Russia, +2° to 12° over Finland, the Baltic Provinces, and Poland, 11° at Berlin, 23° at Brussels, 28° at Oxford, 29° at Paris, 31° in London and 32° at Larne town. Remaining low all day; following night very cold over England, Germany and France.

Wind variable from between SE. and SW. in the west of Norway. SE³ over Scotland, chiefly NE² elsewhere; strong over the eastern Baltic, strong to a gale on our eastern and southern coast. Air very keen and searching. Wind moderating on our east and south coast later and becoming light and variable in Scotland.

Barometer highest 30.5 ins: and more to 30.1 ins: in a large anticyclone lying over the northern and north-western parts of Europe and the British Isles; lowest 29.4 ins to 29.5 ins: in a complex depression lying over the northern parts of the Mediterranean and Italy, with the southern parts of Austria, Servia, Bosnia, and Dalmatia. Gradients moderate. Secondary disturbances appearing off our southeast coast later, and barometer beginning to fall again in the extreme north and northwest.

EXPLANATION OF COLUMNS GIVEN ON PAGE 1.

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

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

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

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

DAILY WEATHER REPORT.

for Friday 28th November. 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 2 1/2 P.M. and Sea Level.	TEMP. Dry.	WIND.		Weather.	Barom. Reading at 8 A.M. and Sea Level.	Difference from 2 1/2 P.M. Yesterday.	STATE TEMP.		Difference from 8 A.M. Yesterday.	WIND.		Force of Wind.	W. at 10 A.M.	Sea (10 to 12).	STATE TEMP.		Amount of Rainfall.
			Dir.	Force.				Air.	Wat.		Dir.	Force.				Max.	Min.	
SCANDINAVIA.	Haparanda ...	29.91	15	2	0	30.02	+11	6	5	-7	2	0	C	*	4	16	-8	—
	Hernösand ...	29.95	10	NE	2	30.20	-04	17	16	+21	2	0	bc	*	4	17	-8	—
	Stockholm ...	30.39	16	2	0	30.38	-05	19	18	+9	2	0	bc	*	4	19	7	—
	Visby ...	30.35	24	E	4	30.32	-02	24	23	+3	2	0	0	*	4	27	18	—
	Bodö ...	30.13	40	SW	6	29.94	-07	39	37	+5	SW	6	0	*	4	34	32	0.04
	Christiansund ...	30.10	40	SW	3	30.17	+01	41	36	+5	SW	3	C	*	4	41	3	—
	Skudesnaes ...	30.34	30	ESE	2	30.34	-02	29	27	0	SE	1	C	*	2	32	28	—
	Christiania Fjord (Harvør)	30.37	21	N	2	?	?	21	21	+2	N	3	f	*	1	21	19	—
	Skagen (The Skaw)	30.28	27	SE	3	30.32	-04	27	24	0	SE	4	0	*	3	27	25	—
	Faßø ...	30.16	28	ESE	4	30.16	0.0	28	27	+3	ESE	4	C	*	2	28	25	—
BRITISH ISLANDS.	Sumbargh Head	30.42	40	WNW	3	30.18	+01	40	38	+1	SWW	3	C	*	4	41	39	—
	Stornoway ...	30.16	39	SW	4	30.11	-05	40	40	+5	SW	6	T	*	5	40	33	0.05
	Wick ...	30.21	33	S	2	30.21	-02	37	36	+5	S	3	C	*	2	38	32	—
	Nairn ...	30.23	24	2	0	30.23	-02	31	31	+6	W	1	0	*	1	34	20	—
	Aberdeen ...	30.25	32	WNW	2	30.28	0.0	25	24	-1	W	1	bc	*	4	32	23	0.01
	Leith ...	30.21	34	N	1	30.24	-01	29	28	+1	W	1	bc	*	2	37	27	0.03
	Shields ...	30.10	36	NE	5	30.15	-01	38	36	+2	ESE	4	C	*	6	38	31	0.17
	Spurn Head ...	29.95	32	NE	7	30.02	-01	35	34	+2	ESE	5	S	*	5	36	30	0.38
	York ...	30.04	32	N	2	30.10	-03	33	33	+4	N	1	C	*	2	34	27	0.27
	Loughborough	29.97	30	WNW	3	30.03	-06	30	30	+3	ESE	1	S	*	2	32	25	0.19
GERMANY & HOLLAND.	Ardrossan ...	30.22	32	ESE	1	30.26	+01	29	29	+3	2	0	C	*	0	33	25	—
	Malin Head ...	30.22	36	ESE	2	30.24	+02	30	33	+3	SWW	1	0	*	1	37	32	—
	Mullaghmore ...	30.24	33	ESE	3	30.27	+03	30	28	-2	S	1	bc	*	2	35	28	—
	Belmullet ...	30.23	34	ESE	2	30.28	+05	28	28	-4	ESE	1	bc	*	2	37	26	—
	Donaghadee ...	30.21	37	NE	5	30.24	+01	38	35	+4	NE	5	bc	*	3	38	34	—
	Liverpool (Bidston)	30.08	30	NNE	3	30.12	-05	30	29	+2	NNE	3	bc	*	2	33	28	—
	Holyhead ...	30.10	35	NE	5	30.13	-03	39	36	+5	ESE	5	bc	*	4	40	33	0.02
	Parsonstown ...	30.20	28	2	0	30.24	+04	21	21	-9	2	0	bc	*	2	33	21	—
	Valencia ...	30.18	31	ESE	2	30.23	+06	33	31	+5	NE	4	bc	*	4	42	27	—
	Roche's Point ...	30.16	32	NE	4	30.16	-01	32	31	+4	NNE	4	bc	*	4	39	28	—
FRANCE AND BELGIUM.	Pembroke (St. Ann's Hd.)	30.07	33	NE	2	30.05	-02	36	34	+5	ESE	4	bc	*	2	36	30	—
	Scilly ...	29.99	38	N	4	29.94	-11	40	38	+8	NE	5	C	*	4	40	29	0.10
	Prawle Point ...	29.97	29	N	3	29.96	-10	27	25	+6	NNW	5	C	*	4	36	21	—
	Jersey (St. Aubin's)	29.90	31	NNW	4	29.90	-11	28	27	-1	E	3	bc	*	3	41	27	0.73
	Hurst Castle ...	29.92	32	NNE	4	29.98	-04	26	26	-2	NE	4	OTD	*	2	34	24	—
	Dungeness ...	29.88	21	SE	4	29.92	0.0	21	21	-7	SE	5	0	*	4	?	17	?
	London ...	29.92	26	ESE	2	29.97	-02	25	24	-4	ESE	1	0	*	4	30	21	0.04
	Oxford ...	29.98	25	NE	3	30.01	-04	24	24	-2	NNW	1	S	*	2	32	23	0.04
	Cambridge ...	29.96	26	NE	1	30.03	+02	26	26	-2	NE	1	S	*	2	32	21	0.15
	Yarmouth ...	29.92	27	E	6	29.99	+02	30	29	-1	E	6	S	*	6	31	24	0.24
GERMANY & HOLLAND.	Cuxhaven ...	30.11	19	E	5	30.15	0.0	19	16	+5	SE	3	bc	*	2	19	9	—
	Berlin ...	30.10	12	E	5	30.16	+03	11	10	+1	ESE	4	bc	*	2	12	10	—
	Wiesbaden ...	29.80	10	2	0	30.03	+12	13	12	-3	NNE	1	0	*	2	23	9	—
	Munich ...	29.80	10	2	0	30.03	+12	13	12	-2	NE	5	0	*	2	18	7	0.04
	The Helder ...	30.02	18	E	3	30.09	+06	18	18	+1	E	2	S	*	3	19	17	0.16
	Brussels (Nam.)	29.90	15	E	3	30.03	+07	12	13	+2	ESE	2	bc	*	2	17	?	0.04
	Cape Gris Nez	29.89	15	N	3	29.97	+05	16	16	-6	SE	3	0	*	3	17	?	—
	Paris ...	29.96	32	ESE	2	29.96	?	7	7	-14	NE	1	bc	*	2	26	12	—
	Brest ...	29.96	32	ESE	2	29.89	-15	31	29	0	E	2	S	*	4	41	28	—
	Lorient ...	29.95	33	NNW	3	29.82	-19	30	28	+6	NNW	3	0	*	2	34	?	—
FRANCE AND BELGIUM.	Rochefort ...	29.97	27	NNE	4	29.83	-08	27	26	+3	SE	5	S	*	2	30	9	0.04
	Belfort ...	?	21	N	1	?	?	20	13	-2	N	1	0	*	2	23	14	—
	Lyons ...	29.90	21	NNW	3	29.94	+10	17	16	-2	N	3	0	*	2	23	13	—
	Nice ...	29.86	36	NE	4	29.89	+04	40	34	0	NE	6	0	*	2	41	34	0.43
	Perpignan ...	29.81	28	NW	2	29.81	+10	26	22	-8	NW	3	C	*	2	37	23	—
	Biarritz ...	29.86	28	E	3	29.88	+03	22	19	-4	ESE	3	bc	*	2	34	19	—
FINLAND.	Corunna ...	29.78	44	2	4	29.86	+12	35	31	-5	NNW	4	bc	*	2	32	34	—
	Lisbon ...	29.78	44	2	4	29.86	+12	35	31	-5	NNW	4	bc	*	2	32	34	—

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, 25th November

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.

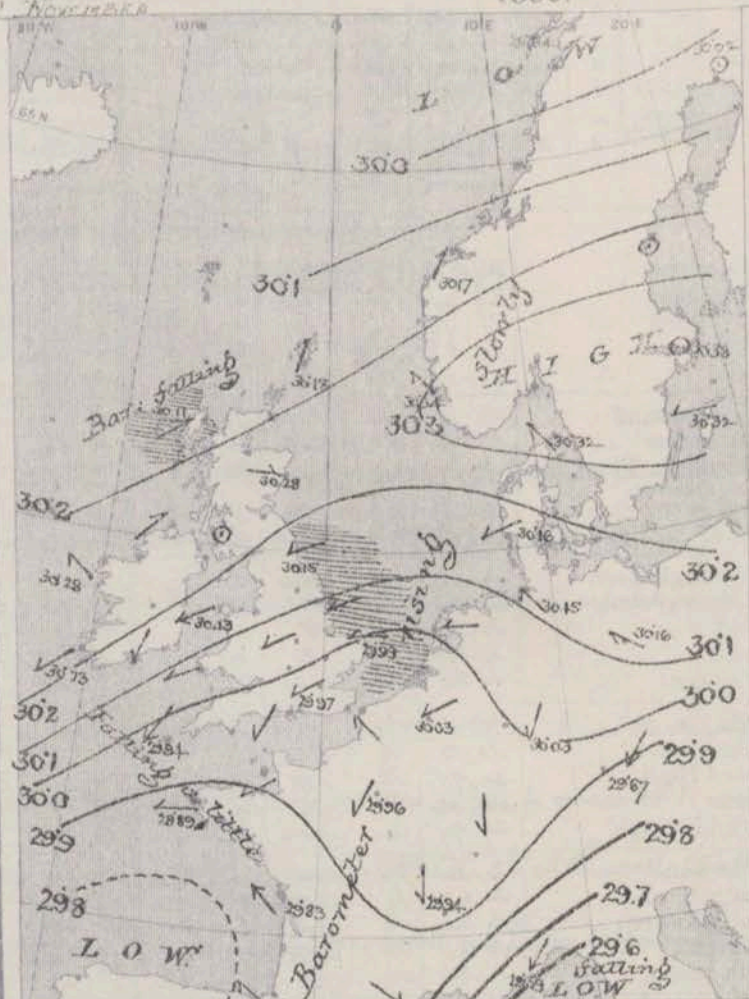
SEA DISTURBANCE—Where considerable, is shown thus:

▨ = Rough. ▨ = High.

MEAN HEIGHT OF THE BAROMETER

at 8.0 a.m. for the month of November,
During the 15 Years, 1871—1885.

STATIONS.	MEAN READINGS.
Sumburgh Head	29.687
Stornoway	29.707
Wick	29.726
Nairn	29.743
Aberdeen	29.756
Leith	29.793
Shields	29.815
York	29.841
Loughborough	29.870
Ardrossan	29.793
Donaghadee	29.841
Holyhead	29.835
Liverpool	29.852
Parsonstown	29.848
Valencia	29.864
Roch's Point	29.864
Pembroke	29.862
Sally	29.898
Jersey	29.923
Hurst Castle	29.898
Dover	29.893
LONDON	29.897
Oxford	29.893
Cambridge	29.886
Yarmouth	29.863



GENERAL SITUATION AT 8 A.M.

PRESSURE	Highest, 30.5 in. and upwards, in an anticyclone lying over the southern part of Scandinavia. Lowest, 29.6 in. and less, in a depression lying over the Gulf of Genoa; 30.0 in. and less, in the north of Scandinavia. Baromet. slight. <i>Barometer falling a little in the south-west of England and the west of France as well as in the Irish sea, but rising elsewhere.</i>
TEMPERATURE	Highest, 41° at Christiansund, 40° at Lumburg, 39° at Romsdal, 38° at Nidaros, and 37° at Ålesund and Bodø. Lowest, 6° at Kongsfjord, 7° at Paris, 10° at Harz, 11° at Berlin, 12° at Brussels, and 13° at Wintzen and Munich. <i>During last night the thermometer fell to 17° at Dungeness, to 21° in London and at Cambridge and Worcester.</i>
WIND	Chiefly, E. (NE. to SE); fresh or strong in force on exposed parts of the English coasts. SW in the north of Scotland and the coast of Norway; strong in force at Bergen and Romsdal.
WEATHER	Snow is falling over the midland, eastern, and southern parts of England, as well as at Rochefort and Lyons. Rain or fine in most other localities, but rainy in the Highlands. Snow fell yesterday in many parts of Great Britain, at Jersey the amount yielded 0.73 in. of water in the gauge. Lightning was seen at Ballykeshill last night.
SEA	Rough on the east coast of England and rather rough at Romsdal, but moderate to smooth elsewhere.

PROBABLE CHANGES IN SYSTEM NOW PREVALENT

There are at present no indications of any decided change in the weather. Slight irregularities in pressure are reported over various parts of England and the Continent, and snow seems likely to continue for a time in many districts.

FORECASTS

For the 24 hours ending at NOON on 29th Nov^r 1890.

DISTRICTS.	FORECASTS.	DISTRICTS.	FORECASTS.
0 SCOTLAND NORTH	SW winds, moderate or fresh; cloudy, rain locally.	6 SCOTLAND WEST	Same as No. 1.
1 SCOTLAND EAST	Light breezes, chiefly W ^{ly} ; fair generally but some fog or mist.	7 ENGLAND N.W.	NE winds, moderate or fresh; some snow showers.
2 ENGLAND N.E.	Same as No. 5.	8 ENGLAND S.W.	
3 ENGLAND EAST		9 IRELAND NORTH	NE winds, moderate or light; fair generally.
4 MIDLAND COUNTIES		10 IRELAND SOUTH	
5 ENGLAND SOUTH	E winds, moderate; changeable. Some snow.	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 ...	30.34	31	27	SE	2	C	2	Holyhead ...	30.11	36	33	ENE	4	CVS	3
Sumburgh Head ...	30.14	40	37	W	3	T	4	Valecia ...	30.16	40	35	E	1	CVS	4
Stornoway ...	30.18	40	39	W	3	C	3	Seilly ...	30.02	33	33	ENE	4	S	4
Aberdeen ...	30.25	32	36	NW	2	C	4	Jersey ...	29.91	33	31	N	3	CVS	3
Shields ...	30.11	37	34	NE	4	CVS	6	Dungeness ...	29.87	24	24	SE	4	S	3
Ardrossan ...	30.22	33	31	ENE	1	CVS	1	London ...	29.53	30	29	NE	2	C	3
Malin Head ...	30.21	37	33	W	1	C	0	Yarmouth ...	29.93	29	27	E	6	CVS	5
Mullaghmore ...	30.22	35	33	ENE	2	C	2	Rochefort ...	29.90	29	28	NE	4	CVS	5
Belmullet ...	30.22	37	34	ENE	2	C	*								

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

Weather very cold generally, dull and quiet over northern, eastern, and southeastern Europe, bright in the north and west of our Islands, and on the Atlantic coasts of France and Spain, cloudy and unsettled over England and the north of France, with heavy snow on our southeastern coasts and at several of the Channel stations. Snow also in the south of France. Fall of snow extending northwards and westwards later, amounts at Jersey, over our northern counties and at Nice considerable.

Temperature in morning very low for the time of year, 10° to 14° below average over our eastern and midland counties. Rising over the Baltic, northern, and central Russia, falling over southeastern Europe. Morning readings as low as -7° at Charkov & Atkier and Hermand, +1° at Mureau, 3° at Moscow and Archangel, 7° to 11° over central and eastern Germany, much below the freezing point over nearly the whole of northern and western Europe. Above 40° on the Portuguese coast and at several of the Mediterranean stations, and as high as 62° at Palermo, 65° at Malta, 57° at Brindisi and LaFolle, not rising above 26° at Paris, 30° in London all day, and remaining below 20° in many parts of Germany.

Wind shifted to W. and SW. in the north of Europe and the extreme north of Scotland, still N to E in many other places, strong to a moderate gale at Faro, Minster, and on our east coast, fresh to light elsewhere. Wind very keen. Becoming somewhat variable over the Channel later, but blowing freshly.

Barometer highest 30.4 in: and more to 30.2 in: in a large anticyclonic system covering central Russia, the Baltic, Scandinavia, and the northern part of the North Sea and British Isles. Lowest (1.) 29.6 in: and less, in a large and complex but not deep depression lying over the Mediterranean and northern Italy, and (2.) 29.7 in: and less, in another depression over the White Sea. Secondary disturbances found off our southeast coast moving westwards very slowly.

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 bank post, is £1 per annum, payable in advance.

DAILY WEATHER REPORT.

for *Saturday, 29th November, 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.	BAROMETR.		SHADE TEMP.			WIND.		Weather.	Sea.	SHADE TEMP.		Amount of Rainfall.	
		Reading at 3 rd P. and Sea Level.	Dry.	Dirce.	Force. (0 to 12.)		Reading at 8 th P. and Sea Level.	Difference from 8 A.M. yesterday.	Dry.	Wet.	Difference from 8 A.M. yesterday.	Dirce.	Force. (0 to 12.)			Max.	Min.		
SCANDINAVIA.	Haparanda ...	30.17	6	Z	0	b	30.22	+ .20	12	11	+ 6	Z	0	5	18	3			
	Hernösand ...	30.32	17	Z	0	b	30.32	+ .12	21	21	+ 4	Z	0	0	23	9			
	Stockholm ...	30.46	19	Z	0	0	30.43	+ .05	19	18	+ 0	Z	0	0	23	14			
	Wishby ...	30.34	16	E	4	b	30.31	- .01	28	27	+ 4	E	4	0	28	14			
	Bodö ...	30.10	42	NW	4	c	30.12	+ .18	41	39	+ 2	SW	4	6	43	37	0.04		
	Christiansund ...	30.28	39	SW	3	b	30.21	+ .04	32	30	- 9	SW	3	6	41	32			
	Skudesnaes ...	30.38	30	SSE	4	b	30.32	- .02	30	27	+ 1	SE	6	6	3	?			
	Christiania Fjord (Færdor) ...	30.39	22	NNE	2	c	30.38	?	23	22	+ 2	NNE	3	0	?	21			
	Skagen (The Scaw) ...	30.32	28	SE	3	c	30.28	- .04	30	29	+ 3	SE	4	0	4	30	25		
	Fanö ...	30.23	28	ESE	2	0	30.18	+ .02	29	29	+ 1	NE	2	0	*	30	25		
BRITISH ISLANDS.	Sumburgh Head ...	30.19	38	S	2	b	30.06	- .12	41	40	+ 1	S	4	0	4	41	36		
	Stornoway ...	30.09	42	W	3	T	29.96	- .15	43	41	+ 3	SW	5	0	5	43	38	0.08	
	Wick ...	30.19	37	S	3	b	30.07	- .14	39	37	+ 2	S	3	6	2	39	36		
	Nairn ...	30.18	33	Z	0	0	30.09	- .14	36	35	+ 5	SW	1	6	1	36	28	0.03	
	Aberdeen ...	30.26	30	W	1	0	30.19	- .09	29	28	+ 4	SW	1	6	3	32	24		
	Leith ...	30.23	31	W	1	b	30.21	- .03	30	30	+ 1	Z	0	5	36	27			
	Shields ...	30.17	37	NE	3	0	30.18	+ .03	34	32	- 4	NW	3	0	5	39	31	0.04	
	Spurn Head ...	30.08	35	SSW	6	S	30.14	+ .12	38	35	+ 3	N	3	0	4	38	31	0.17	
	York ...	30.12	35	NNE	1	0	30.19	+ .09	28	28	- 5	N	1	6	*	37	26	0.02	
	Loughborough ...	30.11	28	NE	1	S	30.18	+ .15	29	28	- 1	Z	0	6	*	32	27	0.09	
GERMANY & HOLLAND.	Ardrossan ...	30.24	35	ESE	1	0	30.20	- .06	33	32	+ 4	ESE	1	6	0	38	28		
	Malin Head ...	30.22	35	S	2	b	30.15	- .09	35	32	- 1	S	3	6	2	39	34		
	Mullaghmore ...	30.25	31	NW	1	0	30.17	- .10	36	31	+ 6	S	2	6	2	39	28		
	Belmullet ...	30.25	36	S	2	0	30.13	- .15	38	37	+ 10	S	3	6	*	41	27		
	Donaghadee ...	30.24	40	E	5	b	30.22	- .02	32	30	- 6	W	3	6	2	40	30		
	Liverpool (Bilston) ...	30.13	33	NE	3	b	30.20	+ .08	31	30	+ 1	SSW	1	6	2	36	30		
	Holyhead ...	30.13	39	ESE	4	b	30.19	+ .06	33	32	- 6	Z	0	6	0	41	33	0.01	
	Parsonstown ...	30.23	30	Z	0	b	30.22	- .02	21	20	0	Z	0	6	*	35	20		
	Valencia ...	30.24	35	NE	2	b	30.22	- .01	35	33	+ 2	E	1	6	2	40	29	0.01	
	Roche's Point ...	30.16	34	NNE	4	b	30.19	+ .03	31	30	- 1	N	3	6	3	39	30		
FRANCE AND BELGIUM.	Pembroke (St. Ann's Hd.) ...	30.07	38	NE	4	c	30.20	+ .15	31	29	- 5	E	2	6	1	39	31		
	Scilly ...	29.96	39	NE	5	op	30.10	+ .16	32	32	- 8	NE	4	6	4	40	30	0.11	
	Prawle Point ...	29.98	27	N	6	c	30.17	+ .21	21	20	- 6	N	3	6	2	28	20	0.02	
	Jersey (St. Aubin's) ...	29.90	29	E	3	c	30.12	+ .22	17	16	- 11	ESE	3	6	3	?	16		
	Hurst Castle ...	30.03	25	ESE	5	b	30.15	+ .17	23	22	- 3	NNE	4	6	1	28	20	0.02	
	Dungeness ...	30.01	22	SE	3	b	30.04	+ .12	30	29	+ 9	N	4	6	3	30	18		
	London ...	30.07	23	E	1	0	30.13	+ .16	28	27	+ 3	N	1	6	*	29	21	0.06	
	Oxford ...	30.12	23	NNE	2	S	30.18	+ .17	27	26	+ 3	NE	1	6	*	27	21	0.03	
	Cambridge ...	30.08	25	N	1	0	30.17	+ .14	28	28	+ 2	N	1	6	*	30	20	0.04	
	Yarmouth ...	30.04	29	E	6	ogs	30.11	+ .12	31	30	+ 1	E	5	6	3	31	25	0.03	
PENIN- SULA.	Cuxhaven ...	30.19	24	ESE	4	c	30.16	+ .01	27	26	+ 8	ESE	3	0	*	?	?		
	Berlin ...	30.17	16	E	5	0	30.05	- .11	20	19	+ 9	NE	4	0	*	?	?	0.04	
	Wiesbaden ...	*	*	*	*	*	29.97	- .06	21	19	+ 8	N	2	0	*	23	13		
	Munich ...	29.84	14	Z	0	c	29.86	- .01	17	16	+ 4	NW	5	6	*	?	12	0.04	
	The Helder ...	30.14	18	E	2	c	30.15	+ .06	22	21	+ 4	E	3	6	3	23	18		
	Brussels (8 A.M.) ...	*	*	*	*	*	30.07	+ .04	15	15	+ 3	NNE	3	0	*	22	12		
	Cape Gris Nez ...	30.02	13	SE	3	b	30.03	+ .06	22	22	+ 6	E	2	0	2	22	12		
	Paris ...	30.01	17	N	2	b	30.04	+ .08	15	15	+ 8	N	2	0	*	26	7		
	Brest ...	29.88	28	E	3	S	29.95	+ .06	23	20	- 8	E	2	6	3	37	19		
	Lorient ...	29.88	26	ESE	3	c	30.06	+ .24	24	23	- 6	NE	4	6	2	34	23		
FRANCE AND BELGIUM.	Rochefort ...	29.82	30	SE	5	S	29.89	+ .06	22	21	- 5	E	6	6	*	28	19		
	Belfort ...	?	21	N	1	0	?	?	21	15	+ 1	N	1	0	*	22	17		
	Lyons ...	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*		
	Nice ...	29.57	44	N	4	c	29.73	+ .14	40	34	0	NW	2	6	2	50	39		
	Perpignan ...	29.77	31	NW	1	b	29.83	+ .02	23	22	- 3	Z	0	0	0	37	22		
	Biarritz ...	29.80	30	ESE	3	b	29.83	- .05	28	25	+ 6	SSE	3	6	1	36	?		
PENIN- SULA.	Corunna ...	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*		
	Lisbon ...	29.98	40	NW	4	b	30.02	+ .16	40	37	+ 5	NW	4	6	2	45	?		

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, 29th November,

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:

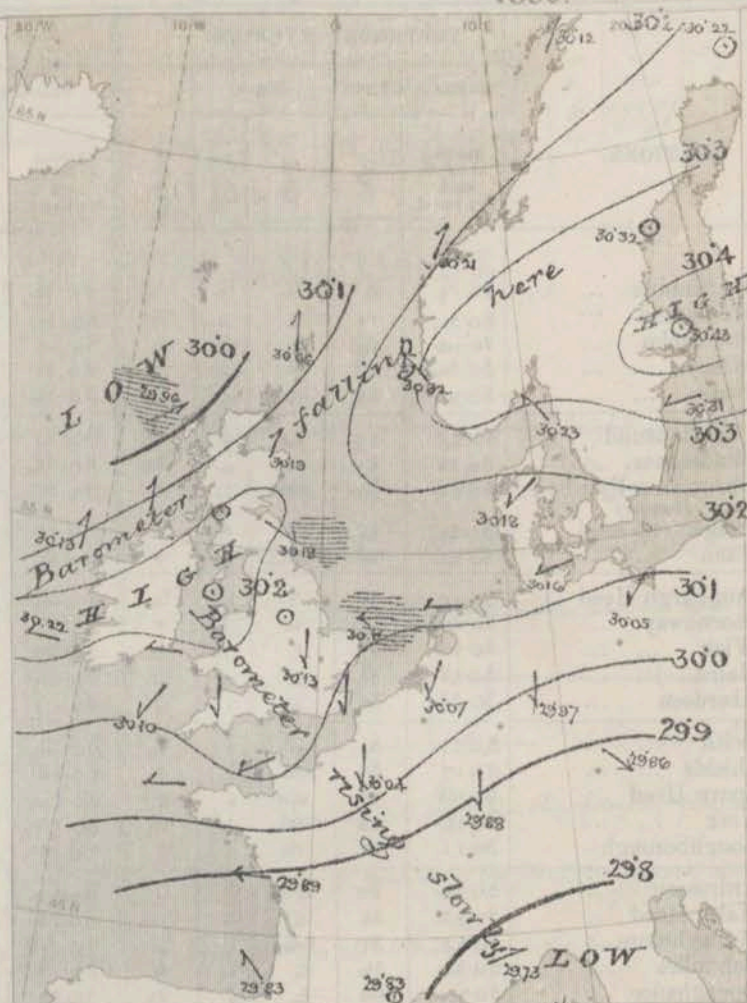
— Rough. — High.

MEAN HEIGHT OF THE BAROMETER

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

During the 15 Years 1871—1885.

STATIONS.	MEAN READINGS.
Sumburgh Head	29.687
Stornoway	29.707
Wick	29.726
Nairn	29.743
Aberdeen	29.750
Leith	29.793
Shields	29.815
York	29.844
Loughborough	29.876
Ardrossan	29.795
Donaghadee	29.811
Holyhead	29.835
Liverpool	29.852
Parsonstown	29.848
Valencia	29.864
Roche's Point	29.864
Pembroke	29.862
Scilly	29.898
Jersey	29.923
Hurst Castle	29.898
Dover	29.893
LONDON	29.897
Oxford	29.893
Cambridge	29.885
Yarmouth	29.863



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.

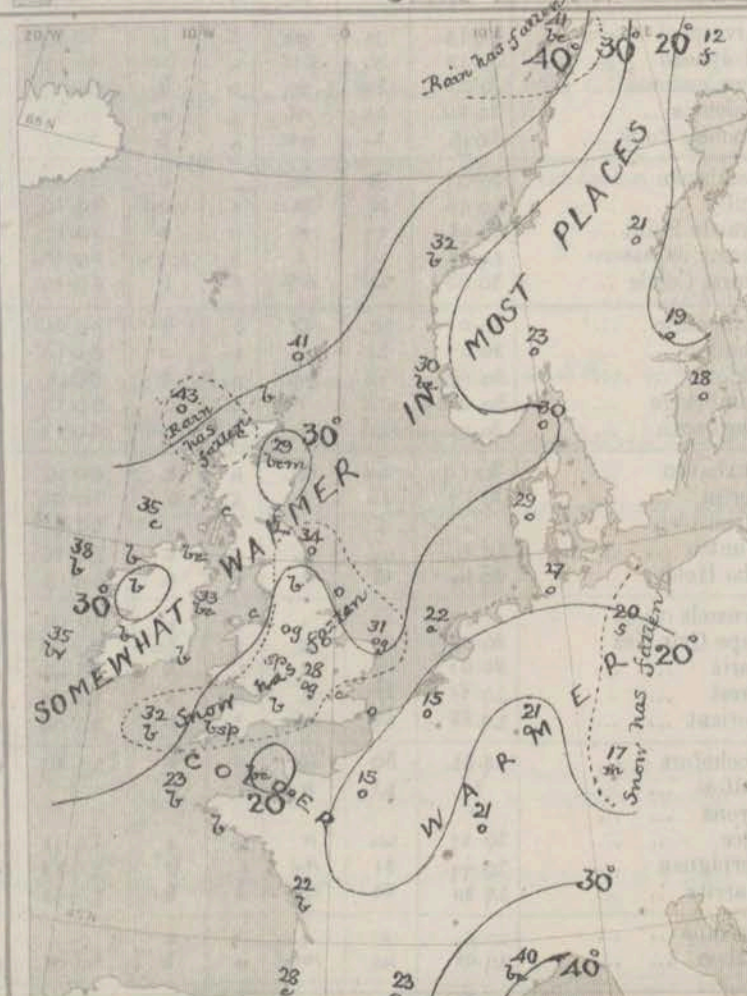
RAINFALL—A dotted line separates the districts in which rain has fallen from those where there has been none. Falls of 0.5 in. or more are quoted in figures.

MEANS OF TEMPERATURE IN SHADE, AND RAINFALL.

(For the month of November.)

STATIONS.	TEMPERATURE.				RAINFALL. (Inches.)
	Daily Max.	Daily Min.	24 H. A.M.	Wind.	
Sumburgh Head	45.3	37.4	41.5	39.8	4.24
Stornoway	45.7	36.7	41.0	39.9	4.60
Wick	45.7	35.7	40.9	39.5	2.97
Nairn	44.7	35.5	39.1	37.5	2.32
Aberdeen	46.1	36.3	40.3	38.5	3.16
Leith	48.2	36.7	41.2	39.6	2.11
Shields	47.1	38.1	41.8	40.2	2.64
York	47.7	36.1	40.3	39.0	2.21
Loughborough	48.0	36.4	40.2	38.9	2.30
Ardrossan	47.7	38.9	42.6	40.5	3.92
Donaghadee	48.2	39.2	42.9	41.7	3.13
Holyhead	49.7	42.8	45.5	43.8	3.71
Liverpool	47.7	39.6	42.1	40.4	2.87
Parsonstown	49.1	36.9	41.7	40.0	2.84
Valencia	52.4	42.7	47.2	45.2	5.50
Roche's Point	51.1	41.8	45.0	44.3	4.56
Pembroke	50.2	43.7	46.5	44.7	3.06
Scilly	52.5	46.7	50.0	48.0	3.53
Jersey	51.9	44.2	47.5	45.6	4.24
Hurst Castle	50.5	40.3	44.6	43.0	2.09
Dover	49.1	40.7	44.0	42.4	3.56
LONDON	49.6	37.9	42.0	40.5	2.14
Oxford	48.6	37.6	41.0	39.7	2.30
Cambridge	48.8	35.7	40.8	39.5	2.03
Yarmouth	47.6	39.1	42.9	41.8	3.15

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, 30.3 in. to 30.4 in. and upwards, in an anticyclone lying over the southern parts of Scandinavia.
Lowest, 29.8 in. and less, in the south of France; 30.0 in. and less, in the northwest of Scotland.

Barometer slightly.

Barometer falling in Scandinavia, Denmark, and the north of our Islands, but rising elsewhere.

TEMPERATURE

Highest, 43° at Stornoway, 41° at Bodø and Stornoway, 40° at Trondheim and Disen, 39° at Nidaros, and 38° at Balmuccia.

Lowest, 12° at Haparanda, 15° at Helsingfors and Paris, 17° at Jersey and Munich, 19° at Stockholm, 20° at Berlin, and 21° at Hernösund.

In the course of the past 24 hours the thermometer has fallen to 16° at Jersey, to 18° at Dungeness, and 20° at Helsingfors and Balmuccia.

WIND

S² or SVV² in the extreme north and northwest of our Islands and the coast of Norway.

Varying between E. and N. in most other localities, and generally light or moderate in force.

WEATHER

Clear over the greater part of Northern Europe, but dull and misty in places, with snow showers at Oxford, Barmouth, and Harrogate.
Snow fell yesterday in many parts of the United Kingdom, but the amount as measured in the snow gauge was in most cases very slight.

SEA

Rather rough off the east of England and also at Stornoway, but moderate to smooth elsewhere.

PROBABLE CHANGES IN SYSTEM NOW PREVALENT

Depressions are beginning to approach our extreme northern coasts and a gradual change in the weather is likely to take place over our Islands.

The southern parts of the Kingdom are however, not likely to be affected just at present.

FORECASTS

For the 24 hours ending at NOON on 30th Nov^r 1890.

DISTRICTS.

FORECASTS.

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

SW² winds, fresh or strong; dull, some rain.
SW² winds, moderate; fair generally, rather milder.
N² to Variable airs; dull, local fogs.
NE² winds, light or moderate; dull, some mist or fog, snow showers locally.

DISTRICTS.

FORECASTS.

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

Variable to SW² breezes; cloudy, local fogs.

NE² winds, light; fair generally, but snow showers locally.

S² and SW² winds, freshening; fine to dull and some rain.

Variable breezes, finally S²; 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 ...	30.36	31	28	SSE	2	bc	2		Holyhead ...	30.12	40	37	ENE	5	c
Sumburgh Head ...	30.19	38	34	SSE	2	bc	4		Valencia ...	30.23	40	36	NE	1	bm
Stornoway ...	30.11	42	42	W	3	o	4		Seilly ...	29.98	38	37	NE	5	sp
Aberdeen ...	30.24	31	27	WNW	1	bc m	4		Jersey ...	29.90	29	27	ESE	3	b
Shields ...	30.15	89	35	NE	4	o	5		Dungeness ...	29.98	21	21	SE	3	bc
Ardrossan ...	30.23	35	33	ENE	1	c	0		London ...	30.02	24	23	ESE	2	ogs
Malin Head ...	30.23	38	35	S	1	o	1		Yarmouth ...	30.02	27	27	ESE	6	sg
Mullaghmore ...	30.25	37	35	W	0	b	2		Rochefort ...	29.84	30	30	SE	5	s
Belmullet ...	30.26	41	38	S	2	b	*								*

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

Weather in morning dull and gloomy over eastern, southeastern, and central Europe, fair as a whole in the northwest and north, and bright in many places. Dry snow falling very generally over the eastern, midland, and southern parts of England and several parts of France — the amounts measured being largest at Jersey, Spurn Hd., Yarmouth, and Nice.

Temperature still very low for time of year and beginning to fall again over northern Europe, but to rise over Scotland, central, and southeastern Europe. Morning readings — 4° Fahr. at Archangel and —3° at Kharkov; above zero elsewhere, but as low as +2° at Riga, 3° at Warsaw, 5° at Memel, 7° at Prague and Paris, 11° at Berlin, 12° at Brussels, 17° at Lyons, 21° at Constantinople, and 25° in London. At Haparanda it was 6°. The highest values were 67° at Palermo, 66° at Malta, 60° at Rome, and ranging from 40° to 58° on the Mediterranean coast generally. Changing little and very irregularly over our Islands later.

Wind still SW³ over the northern part of Scotland and the northwest of Norway and in the Gulf of Finland. Mainly E³ (SE to NE) over the Baltic, Central, western, and southern Europe, but of less strength than recently observed. Cyclonic circulation of strong winds prevalent, however, over the northern and eastern parts of the Mediterranean. The SW¹ wind beginning to spread to Ireland later, with rising thermometer.

Barometer highest 30.6 ins: and more to 30.4 ins: in an anticyclone lying over the southern half of Russia, and 30.3 ins: to 30.2 ins: in a 'col' extending from Russia across the Baltic, the southern part of Scandinavia, Scotland, and Ireland to the Atlantic. Lowest 30.0 ins: and less, over Lapland, the Kola Peninsula and the White Sea; 29.8 ins: and less in a depression over the northwest of Spain, and 29.6 ins: and less in another over Corsica, the Gulf of Genoa, and north of Italy. Not much change apparent later.

EXPLANATION OF COLUMNS GIVEN ON PAGE 1.

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

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

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

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

DAILY WEATHER REPORT.

for Sunday 30th NOVEMBER. 1890.

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

STATIONS.	YESTERDAY EVENING.					8 A.M. TO DAY.										PAST 24 HOURS.		
	BAROM.	TEMP.	WIND.		Weather.	BAROMETER.		SHADE TEMP.			WIND.		Weather.	Sea. (0 to 3.)	SHADE TEMP.			
	Reading at 32° F. and Sea Level.	Dry.	Dirac.	Force. (0 to 12.)		Reading at 32° F. and Sea Level.	Difference from 8 a.m. yesterday.	Dry.	Wet.	Difference from 8 a.m. yesterday.	Dirac.	Force. (0 to 12.)			Max.	Min.	Amount of Rainfall.	
SCANDINAVIA.	Haparanda ...	30.16	32	SW	4	0	30.02	— .20	26	26	+ 14	SSE	4	0	*	32	1	—
	Hernösand ...	30.26	24	SSW	4	C	30.06	— .26	5	4	— 16	Z	0	b	*	32	?	—
	Stockholm ...	30.27	30	Z	0	S	30.14	— .29	31	30	+ 12	Z	0	o	*	32	?	0.08
	Wisby ...	30.17	32	NE	4	S	30.11	— .20	33	32	+ 5	E	4	o	*	33	28	0.28
	Bodö ...	29.99	38	SSW	2	C	29.59	— .53	37	31	— 4	SSE	2	o	1	41	34	—
	Christiansund	30.03	31	SE	5	C	29.68	— .63	38	33	+ 6	SE	3	o	5	?	31	—
	Skudesnaes ...	30.21	34	SE	5	o	30.02	— .30	42	38	+ 12	S	10	o	5	?	30	—
	Christiania Fjord (Farrier)	30.28	24	N	5	C	30.17	— .21	24	22	+ 1	Z	0	b	1	25	23	—
	Skagen (The Seaw)	30.23	31	NE	3	o	30.19	— .09	31	31	+ 1	NE	2	o	2	?	28	—
	Fanö ...	30.18	30	N	2	o	30.25	+ .07	30	30	+ 1	N	1	C	*	30	28	—
BRITISH ISLANDS.	Sumburgh Head	29.87	42	S	6	o	29.57	— .49	44	44	+ 3	SW	6	r	6	44	41	0.30
	Stornoway ...	29.71	43	SW	9	o	29.58	— .38	47	47	+ 4	N	4	r	5	49	35	0.15
	Wick ...	29.92	39	S	5	C	29.63	— .44	43	42	+ 4	SW	5	o	4	43	37	0.10
	Nairn ...	29.93	37	SW	3	o	29.71	— .38	44	43	+ 8	W	3	C	1	44	32	—
	Aberdeen ...	30.10	38	S	3	b	29.84	— .35	39	38	+ 10	SSW	7	o g r u	5	39	29	0.16
	Leith ...	30.14	31	W	1	b	29.91	— .30	43	41	+ 13	WSW	5	o	*	43	28	—
	Shields ...	30.19	34	WNW	1	o	30.08	— .10	31	31	— 3	? SW	4	o	3	35	25	—
	Spurn Head ...	30.21	36	WNW	3	C	30.16	+ .12	32	30	— 6	SW	5	cm	4	39	29	—
	York ...	30.23	32	N	1	o	30.23	+ .04	30	30	+ 2	S	3	C	*	35	25	—
	Loughborough	30.26	32	NW	1	o	30.32	+ .14	26	25	— 3	ESE	1	b	*	34	25	—
GERMANY & HOLLAND.	Ardrossan ...	30.12	42	S	3	C	29.92	— .28	45	45	+ 12	SSW	6	r	5	45	32	0.16
	Malin Head ...	29.93	37	S	7	o g u	29.69	— .46	45	44	+ 10	S	7	o g	3	49	32	0.14
	Mullaghmore ...	30.03	40	SSW	6	o	29.80	— .37	46	45	+ 10	SSW	9	r g	6	46	35	0.65
	Belmullet ...	29.98	45	SSW	8	o u	29.79	— .34	51	50	+ 13	SW	10	o	*	51	36	0.55
	Donaghadee ...	30.10	37	SW	3	C	29.98	— .24	41	41	+ 9	W	6	r	3	42	31	0.18
	Liverpool (Bidston)	30.23	33	S	2	C	30.21	+ .01	31	30	0	SSE	4	o	3	35	27	—
	Holyhead ...	30.21	37	S	1	C g	30.15	— .04	44	43	+ 11	SSW	5	o g g u	5	45	33	—
	Parsonstown ...	30.17	32	Z	0	C	30.05	— .17	42	41	+ 21	SW	2	r	*	43	32	0.32
	Valencia ...	30.17	45	S	3	o g	30.06	— .16	50	49	+ 15	S	7	r g	6	50	32	0.32
	Roche's Point...	30.19	44	S	4	b	30.17	— .02	46	46	+ 15	SSW	5	r	5	46	31	0.12
FRANCE AND BELGIUM.	Pembroke (St. Ann's Hd.)	30.25	35	ENE	2	b	30.25	+ .05	43	41	+ 12	SSW	4	C	4	43	31	—
	Scilly ...	30.21	36	NE	3	b	30.30	+ .20	42	40	+ 10	SSW	3	b	3	42	32	—
	Prawle Point ...	30.25	31	NNW	3	o	30.37	+ .20	37	35	+ 16	SW	1	C	1	37	21	—
	Jersey (St. Aubin's)	30.16	38	NNW	3	o g r s	30.41	+ .29	36	32	+ 19	SE	3	b m	3	41	17	0.02
	Hurst Castle ...	30.22	33	NNE	3	C	30.36	+ .21	36	35	+ 13	E	3	cm	1	36	22	—
	Dungeness ...	30.12	35	NE	5	C	30.35	+ .31	25	25	— 5	N	2	m	0	37	24	—
	London ...	30.22	34	NW	1	o g.	30.38	+ .25	24	23	— 4	SSW	1	b	*	34	22	—
	Oxford ...	30.28	31	Z	0	o	30.37	+ .19	28	27	+ 1	SW	1	b m	*	31	27	0.01
	Cambridge ...	30.26	31	N	1	o	30.36	+ .19	18	18	— 10	NW	1	C	*	33	15	—
	Yarmouth ...	30.17	37	ENE	2	C	30.32	+ .21	24	23	— 7	NNW	1	b	3	37	23	0.01
PENIN- SULA.	Cuxhaven ...	30.08	32	NNE	3	C	30.24	+ .08	33	32	+ 6	N	3	C	*	33	27	—
	Berlin ...	30.03	26	W	3	S	30.23	+ .18	24	23	+ 4	WSW	3	S	*	25	20	0.08
	Wiesbaden ...	*	*	*	*	*	30.40	+ .43	23	21	+ 2	SW	1	o	*	23	18	0.08
	Munich ...	30.06	21	Z	0	o	30.39	+ .53	18	18	+ 1	W	4	m	*	21	12	0.04
	The Helder ...	30.19	31	NNW	1	o	30.31	+ .16	32	31	+ 10	S	1	C	1	36	19	—
	Brussels (9 a.m.)	*	*	*	*	*	30.40	+ .33	23	23	+ 8	SW	2	C	*	24	15	—
	Cape Gris Nez	30.13	27	ENE	3	o	30.33	+ .30	?	?	?	ESE	2	o	1	32	21	—
	Paris ...	30.17	23	NNE	2	o	30.40	+ .36	23	22	+ 8	SE	1	o	*	24	15	—
	Brest ...	30.22	32	E	1	o	30.22	+ .37	39	38	+ 16	ENE	1	o	3	41	23	0.47
	Lorient ...	30.17	32	NE	4	b	30.37	+ .31	31	29	+ 7	ENE	2	b	2	35	24	—
PENIN- SULA.	Rochefort ...	30.10	29	NNE	5	C	30.30	+ .41	22	22	0	NE	5	b	?	34	16	—
	Belfort ...	30.04	23	NNW	1	o	?	?	21	14	0	NNW	1	o	*	25	17	—
	Lyons ...	30.15	23	N	1	S	30.38	?	20	19	?	NNW	1	o	*	24	18	—
	Nice ...	30.00	43	NE	4	o	30.13	+ .40	48	39	+ 8	NE	6	o	4	50	39	0.04
	Perpignan ...	30.05	28	SE	2	b	30.19	+ .36	38	31	+ 15	NW	4	o	*	41	23	—
	Biarritz ...	30.02	35	E	3	b	30.23	+ .40	29	27	+ 1	E	3	C	1	41	23	—

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

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

1890

GENERAL SITUATION AT 8 A.M.

PRESSURE

Highest, 30.3 in. to 30.4 in. and upwards, in an anticyclone lying over the Bay of Biscay, the greater part of France, the Netherlands, and the south and east of England.
 Lowest, 29.6 in. and less, in a large depression lying to the northward of our Islands and the southward of Norway.
 Gradients steep over the west and north of our Islands and the west of Norway but slight elsewhere.
 Barometer falling over all the more western and northern parts of the United Kingdom and also in Scandinavia, but rising elsewhere.

TEMPERATURE

Highest, 51° at Belmullet, 50° at Valen, 47° at Stromway and 46° at Mullaghmore and Rock Point.
 Lowest, 5° at Benicard, 18° at Farnbridge and Munich, 20° at Riga, 21° at Belfast, 22° at Rochefort, and 23° at Paris and Marseilles.
 A considerable rise has taken place in the west and north of our Islands and also at the Channel stations.

WIND

S³ or SW³ over the greater part of the United Kingdom, but N⁴ in the Hebrides and variable in the southeast of England.
 Strong to a gale at many of our western and northern stations, — gale severe in the northwest of Ireland.

WEATHER

Calm or variable in Sweden, light from the N² over Denmark, E¹ or NE¹ in the west and south of France.
 Fine in the south and southeast of England, as well as in the east of France and some parts of Scandinavia.
 Cloudy or overcast elsewhere with rain at many of the Irish and Scotch stations.
 A little snow fell yesterday in the south of England and larger quantities in some parts of France and Germany.

SEA

Rough or rather so on nearly all parts of our western and northern coasts, but slight or smooth in the east and south.

PROBABLE CHANGES IN SYSTEM NOW PREVALENT

FORECASTS

For the 24 hours ending at NOON on 1st DEC^r 1890.

DISTRICTS.

FORECASTS.

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

The SOUTH CONE was hoisted last evening in districts 1, 6, 7, 9, and 10, and this morning in district 2 and part of 8.

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

YESTERDAY'S 2 P.M. REPORTS.

	BAR:	THER:		WIND		WEA	SEA		BAR:	THER:		WIND		WEA	SEA
		D.	W.	D.	F.					D.	W.	D.	F.		
Skudesnaes ...	30.91	32	28	SE	6	bc	3		Holyhead ...	30.19	38	36	SSE	1	b
Sumburgh Head									Valencia ...	30.6	43	40	SSE	2	cm
Stornoway ...	29.84	44	40	SW	7	0	6		Scilly ...	30.18	36	33	NE	3	b
Aberdeen ...	30.12	35	32	SSW	2	b	3		Jersey ...	30.12	37	36	N	2	c
Shields ...	30.18	25	23	WNW	2	c	4		Dungeness ...	30.06	35	33	NE	5	0
Ardrossan ...	30.14	42	40	S	3	0	2		London ...	30.17	32	?	L	0	cmg
Mulin Head ...	30.04	37	34	S	5	0	3		Yarmouth ...	30.13	35	33	E	4	cg
Mullaghmore ...	30.09	39	34	SSW	5	c	3		Rocheport ...	30.08	33	30	ENE	4	b
Belmullet ...	30.06	41	39	SSW	5	0	*								

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

Weather dull and quiet over Southern, Eastern and Northern Europe, foggy at the northern extremity of the Gulf of Bothnia, changeable and unsettled elsewhere, with snow in several parts of North Germany and England, and in some parts of France. Rain setting in later over the western and northern parts of the United Kingdom, and slight showers of snow occurring in different parts of England and on the Continent.

Temperature less low than of late, but changing irregularly. Still exceeding 60° at Brindisi and Malta and also at Lania, and exceeding 50° over the southeastern parts of the Mediterranean generally. Much lower elsewhere — as low as (1) 10° at Madrid, 15° at Paris and Brussels, 17° at Le Mans, 20° at Berlin, 21° at Braukelbunt and Varanoutow, 28° at York and in London; (2) 13° at Kharkov, 16° at Moscow and Archangel. Raining decidedly over Ireland and Scotland later; falling over England at night after a slight "giving" of frost during the daytime.

Wind still mainly E³ (SE to NE) over Eastern, Western and Central Europe, S³, light over Finland and Norway, S³ to SW³ over our northwestern and northern coasts. Cyclonic circulation of moderate winds over the Mediterranean. The S³ and SW³ winds becoming general over Ireland and Scotland later, and increasing to a gale in places. Wind becoming variable elsewhere.

Barometer highest, 30.8 ins. to 30.4 ins. over central and southwestern Russia, 30.2 ins. and more to 30.1 ins. over Ireland, England and the North Sea. Lowest ^{at night} 29.7 ins. in a depression over the Gulf of Genoa, and below 29.8 ins. off our own northwestern coasts. Falling steadily in the west and north of our Islands later, rising over Russia and also over England. Secondary anticyclone in latter region becoming well developed.

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 30° F. and Sea Level.	Temp. in Shade.	WIND.		Weather.	BAROMETER.		SHADE TEMP.			WIND.		Weather.	Sea (0 to 9.)	SHADE TEMP.		Amount of Rainfall.		
				Direct.	Force (0 to 12.)		Reading at 30° F. and Sea Level.	Difference from 8 a.m. yesterday.	Dry.	Wet.	Difference from 8 a.m. yesterday.	Direct.	Force (0 to 12.)			Max.	Min.			
5	Corunna	*	*	*	*	*	30.09	-	59	55	-	SW	2	f	5	63	55	0.08		
6	Corunna	*	*	*	*	*	30.16	-	54	52	-	WNW	4	r	6	59	50	0.04		
7	Mullaghmore	-	-	-	-	-	29.42	-0.01	47	43	-1	NW	9	cgt	7	56	44	1.58		
-	Parsonstown	28.83	50	SW	3	c	29.51	-0.05	42	38	-5	NW	2	bc	8	56	41	0.63		
-	Pembroke	28.98	52	S	9	r	29.42	-0.34	47	45	-2	WNW	8	bcq	7	54	47	0.64		
-	Cape Gris Neg.	29.64	50	SW	5	c	29.10	-0.66	51	-	-5	W	8	0	8	?	45	0.28		
-	Biarritz	29.95	51	SW	4	r	29.78	-0.26	57	-	+3	NW	5	r	6	57	48	0.63		
-	Corunna	*	*	*	*	*	30.09	-0.07	57	55	+3	NW	3	0	1	61	50	0.32		
8	Mullaghmore	29.57	48	W	5	bc	29.34	-0.08	46	45	-1	WNW	5	agp	5	51	44	0.09		
-	Corunna	*	*	*	*	*	30.08	-0.01	55	54	-2	W	2	0	5	59	50	0.08		
10	Corunna	*	*	*	*	*	30.01	+0.03	56	-	+3	SW	4	r	6	57	48	0.43		
11	Belmullet	-	-	-	-	-	29.14	-0.42	46	43	+7	WNW	7	0	8	47	34	0.45		
-	Corunna	*	*	*	*	*	29.74	-0.27	57	55	+1	SW	2	c	5	61	52	0.71		
12	Ayons	29.81	40	S	2	0	29.97	+0.17	40	-	-4	WNW	2	c	8	44	38	0.08		
13	Corunna	*	*	*	*	*	30.11	-0.01	59	56	+5	SE	6	0	4	63	52	-		
14	Corunna	*	*	*	*	*	30.15	+0.04	59	57	0	SE	5	bc	4	66	52	-		
15	Corunna	*	*	*	*	*	30.25	+0.10	58	51	-6	S	1	0	5	66	48	-		
17	Brussels	*	*	*	*	*	30.34	+0.04	50	-	+4	W	2	0	*	51	45	0.08		
-	Corunna	*	*	*	*	*	30.31	+0.05	51	47	+1	S	1	0	4	63	-	-		
19	Corunna	*	*	*	*	*	30.40	-	46	45	-	E	1	0	4	61	45	-		
20	Haparanda	30.15	23	SW	6	0	29.67	-0.48	29	29	+20	SW	6	3	*	-	-	0.51		
21	Corunna	*	*	*	*	*	30.45	+0.05	47	45	+1	E	2	0	4	63	43	-		
22	Corunna	*	*	*	*	*	30.52	+0.07	54	54	+7	NW	1	f	4	61	45	-		
24	Haparanda	30.19	-7	NE	4	0	30.38	+0.39	10	-11	-10	NE	2	0	*	7	-	-		
-	Corunna	*	*	*	*	*	30.21	-0.25	53	53	+6	ESE	1	f	4	64	46	-		
25	Haparanda	30.43	-4	NE	2	0	30.50	+0.12	4	4	+14	NE	2	0	*	?	-11	0.04		
-	Lisbon	30.07	56	NNE	4	0	30.02	-0.13	58	47	+3	WNW	4	0	5	66	?	-		
26	Haparanda	30.56	1	X	0	c	30.38	-0.12	-15	-15	-19	Z	0	f	*	5	?	-		
-	Biarritz	29.71	45	S	3	r	29.61	-0.25	42	-	-7	NE	6	0	5	53	37	0.95		
-	Corunna	*	*	*	*	*	29.83	-	44	43	-	ESE	3	r	5	52	41	0.28		
27	Corunna	*	*	*	*	*	29.90	+0.07	40	38	-4	NE	5	0	5	48	37	0.20		
28	Corunna	*	*	*	*	*	29.74	-0.16	34	33	-6	ESE	1	0	4	45	34	-		
29	Corunna	*	*	*	*	*	29.94	+0.20	43	40	+9	NNE	7	bc	6	45	34	0.59		

