

METEOROLOGICAL OFFICE

LONDON.

DAILY WEATHER REPORTS.

1ST JULY - 31ST DECEMBER.

1888.

See Reg. Lond.

6/7/89

July to December 1888.

July to December 1888.



DAILY WEATHER REPORT.

for *Thursday, 1st November* 1888.
 Issued by the *Meteorological Office, 116, Victoria Street, London.* R.H. SCOTT, Secretary.

		+ YESTERDAY EVENING.					8 A.M. TO DAY.										PAST 24 HOURS.		
STATIONS.		Barometer at 32° F. and Sea Level.	Temp. in Shade.	WIND.		Weather.	BAROMETER.		SHADE TEMP.			WIND.		Sea. (0 to 2.)	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.)		Weather.	Max.		Min.	
SCANDINAVIA.	Haparanda ..	29.93	14	N	2	b	29.94	+12	-1	-2	-15	NE	0	0	*	19	9	-	
	Hernösand ...	30.04	14	N	0	b	30.01	+04	15	14	0	NE	4	0	*	30	12	-	
	Stockholm ...	29.80	31	NE	6	S	29.75	-12	30	29	-1	NE	6	S	*	26	23	0.20	
	Wisby ...	29.79	40	N	2	r	29.71	-20	44	43	+7	W	2	0	*	7	32	0.28	
	Bodö ...	29.97	21	S	2	b	29.86	-05	21	18	-2	ENE	2	0	1	23	18	-	
	Christiansund...	29.67	35	ENE	5	b	29.85	+18	33	31	-4	ENE	5	0	3	37	30	-	
	Skudesnaes ...	29.56	48	SSE	6	0	29.60	+02	46	42	-3	ENE	4	0	4	50	45	0.28	
	Christiania Fjord (Færd)	29.67	39	NW	3	0	29.75	+01	36	34	-9	NE	5	0	1	45	36	-	
	Skagen (The Scaw)	29.65	48	W	1	0	29.64	-12	46	45	+1	SW	1	0	1	48	43	0.59	
	Fanö ...	29.75	49	SW	5	b	29.69	-15	47	47	0	S	2	0	*	52	46	-	
BRITISH ISLANDS.	Sumburgh Head	29.47	44	2	0	0	29.75	+37	41	37	-5	NNE	4	0	4	51	39	0.03	
	Stornoway ..	29.44	47	SW	2	0	29.72	+37	46	46	+8	E	7	0	6	51	35	0.14	
	Wick ...	29.50	44	NW	2	b	29.76	+36	43	42	0	NE	5	0	1	50	39	0.15	
	Nairn ...	29.50	45	W	1	0	29.69	+33	45	44	+2	2	0	0	2	57	41	0.49	
	Aberdeen...	29.55	42	W	1	b	29.68	+23	42	41	-4	WNW	2	0	3	52	38	-	
	Leith ...	29.59	46	W	3	0	29.64	+11	40	39	-10	W	1	0	2	54	38	0.01	
	Shields ...	29.66	51	SW	3	0	29.64	-01	42	41	-5	2	0	0	2	55	41	-	
	Spurn Head ...	29.79	50	SSW	3	b	29.63	-20	44	43	-3	SSW	2	0	2	55	42	-	
	York ...	29.74	50	SW	3	b	29.64	-15	41	41	-4	E	1	0	*	55	40	-	
	Loughborough	29.82	48	WSW	2	b	29.66	-24	43	43	-3	E	1	0	*	56	41	-	
GERMANY.	Ardrossan ...	29.60	40	W	4	cyp	29.64	+12	42	41	-8	2	0	0	0	52	40	0.15	
	Malin Head ...	29.62	47	NW	3	bcp	29.65	+10	46	45	-3	NW	3	0	3	52	46	0.10	
	Mullaghmore ...	29.67	49	W	5	cyp	29.69	+01	47	43	-3	NW	4	0	3	53	44	0.72	
	Belmullet ...	29.70	48	W	2	cyp	29.72	+01	47	43	-3	NW	1	0	*	52	42	0.47	
	Donaghadee ...	29.68	47	WSW	3	0	29.65	+01	47	45	+1	NW	3	0	1	53	40	0.02	
	Barrow-in-Furness	29.69	48	SW	5	r	29.62	-13	46	46	-5	E	2	0	0	54	45	0.16	
	Liverpool (Bidston)	29.76	49	SW	2	b	29.63	-20	45	44	-4	ESE	1	0	2	55	43	0.04	
	Holyhead ...	29.75	52	SW	4	0	29.62	-20	46	44	-4	NNE	1	0	2	54	45	0.12	
	Parsonstown ...	29.75	46	W	0	0	29.70	-12	42	41	-3	2	0	0	*	52	40	0.26	
	Valencia ...	29.81	49	NW	3	b	29.76	-14	47	44	-5	N	4	0	4	56	42	0.24	
FRANCE & NETHERLANDS.	Roche's Point...	29.79	50	W	3	b	29.67	-25	44	42	-4	NW	5	0	4	54	42	0.10	
	Pembroke ...	29.80	53	WSW	4	b	29.61	-31	46	45	-8	NE	1	0	2	54	45	0.02	
	Scilly ...	29.83	53	WS	4	0	29.64	-37	49	45	-4	NW	6	0	5	57	49	0.12	
	Prawle Point ...	29.90	51	W	4	b	29.63	-40	46	45	-6	WNW	3	0	2	53	43	0.22	
	Jersey ...	29.96	52	SE	4	0	29.67	-43	49	48	-6	NW	2	0	2	56	48	0.49	
	Hurst Castle ...	29.89	52	W	4	bcp	29.63	-41	49	49	-3	S	3	0	2	55	47	0.11	
	Dungeness ...	29.95	54	W	4	0	29.65	-35	50	49	-2	W	3	0	2	56	49	0.35	
	London ...	29.89	49	SW	1	b	29.65	-35	47	46	-1	S	1	0	*	56	44	-	
	Oxford ...	29.84	48	SW	3	0	29.65	-33	42	41	-4	2	0	0	*	54	41	-	
	Cambridge ...	29.86	47	SW	1	0	29.66	-30	42	42	-3	2	0	0	*	55	38	-	
PENINSULA.	Yarmouth ...	29.85	50	SW	2	0	29.66	-27	45	44	-1	SW	1	0	2	52	43	-	
	Cuxhaven ...	29.91	50	NNE	2	0	29.79	-17	47	47	-1	SSW	1	0	*	50	45	-	
	Berlin ...	29.99	47	2	0	b	29.86	-08	45	44	-1	SSE	1	0	*	50	43	-	
	Wiesbaden ...	*	*	*	*	*	29.78	-32	50	49	+1	SW	1	0	*	59	?	0.12	
	Munich ...	30.09	46	NE	1	b	29.89	-32	38	37	-14	SW	1	0	*	59	36	-	
	The Helder ...	29.86	51	SW	3	b	29.70	-23	48	47	-2	SSE	1	0	1	52	48	-	
	Brussels ...	*	*	*	*	*	29.71	-36	47	47	-4	S	1	0	*	56	46	0.39	
	Cape Gris Nez...	29.92	53	WSW	5	0	29.68	-34	47	47	-6	S	3	0	3	55	46	0.28	
	Paris ...	30.00	53	SSE	1	0	29.68	-47	52	51	+1	SW	3	0	*	58	49	0.04	
	Brest ...	29.99	56	WSW	4	0	29.78	-37	52	50	-3	NW	3	0	3	66	39	0.43	

For Explanation of Columns, see p. 4.

Erratum. - In yesterday's Report the Rainfall at Yarmouth should have read "0.18"

WEATHER CHARTS

for 8 a.m. on Thursday, 1st November, 1888.

BAROMETER, WIND & SEA.

(Explanation of Map)

Barometer — Isolars 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.

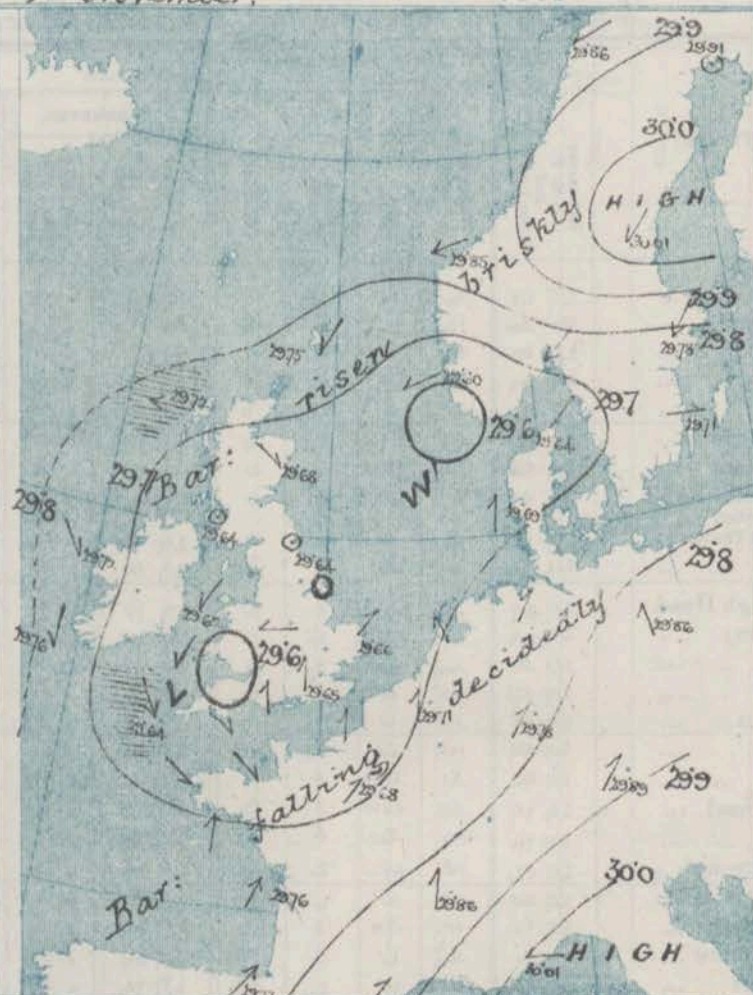
Sea Disturbance — where considerable, is shown thus.

— 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	29.756
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.

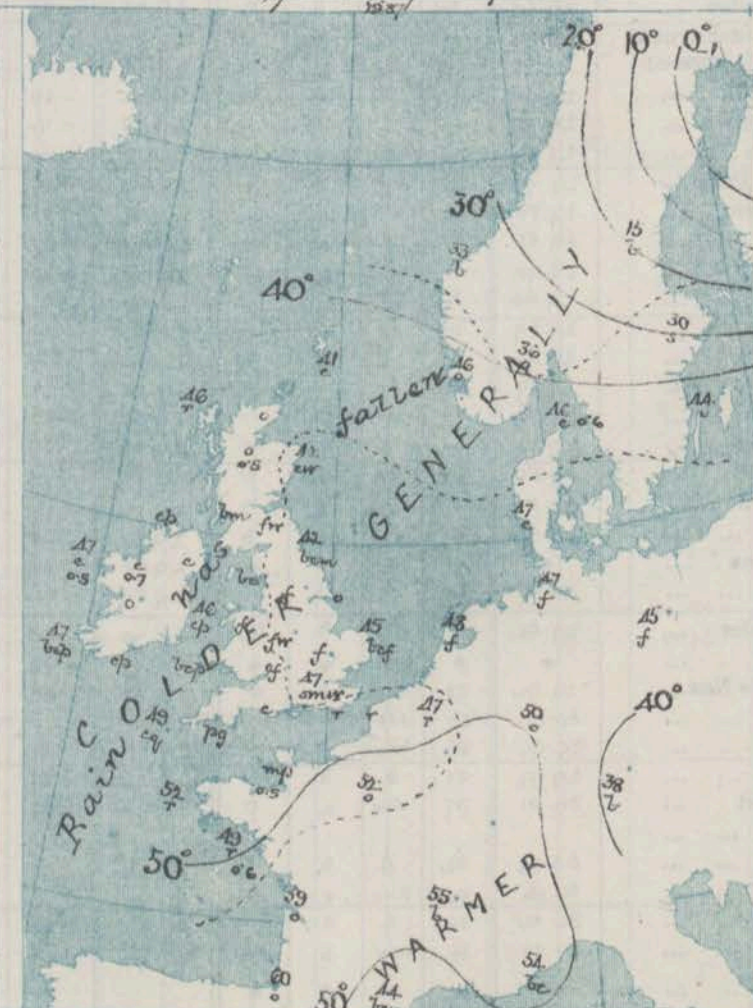
MEANS OF TEMPERATURE IN SHADE.

AND RAINFALL.

for the month of November.

STATIONS.	TEMPERATURE.				RAINFALL. (Inches)
	Daily Max.	Daily Min.	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	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	46.9	44.8	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	44.6	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	47.5	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 1868—85.



GENERAL SITUATION AT 8 A.M.

PRESSURE

Highest, 30.0 in: and upwards, over the Gulf of Bothnia, and also in the extreme southeast of France.
Lowest, 29.6 in: and less, in two small depressions lying respectively over the southwest of England and off the south of Norway.
Gradients slight generally. Barometer rising in Norway and the north of our Islands, but falling elsewhere.

TEMPERATURE

Highest, 60° at Rianitz, 59° at Rochefort, 55° at Lyons, 54° at Nice, 51° at Paris and Brest, and 50° at Dungeness and Mirköden.
Lowest, -1° Fahrenheit at Hafslunda + 15° at Hempden, 21° at Rost, 30° at Stockholm, 33° at Christiania and 36° at Faeröer, and 40° at Leth.

WIND

Fresh or strong from the NEth in Scandinavia and the extreme north of Scotland.
Moderate or fresh from NW. or N. over Ireland and the southwest of England.
Light from the SEth over France, Germany, the Netherlands, Denmark and the southeast of England.

WEATHER

Foggy over the greater part of England as well as in the Netherlands and North Germany.
Showers on our western coast, and rainy in the northwest and northeast of France; snow is reported at Stockholm.
Fog in the north of Scandinavia and the south of France.
Rain fell yesterday in many parts of Western Europe and Solar halos were seen in the south of England.

SEA

Rough at Lornoway, and rather rough at Leth, but moderate to smooth elsewhere.

PROBABLE CHANGES IN SYSTEM NOW PREVALENT

The large area of low pressure which lies over our Islands and the North Sea appears likely to move slowly, southwards, and Nth breezes will probably extend over the greater part of the Kingdom with a further fall of temperature in most districts.

FORECASTS

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

1888.

DISTRICTS.

FORECASTS.

0	SCOTLAND NORTH	NE th winds, fresh or strong; unsettled; some cold rain or sleet.
1	SCOTLAND EAST	Wind shifting to the NW th or NE th ; colder some showers.
2	ENGLAND N.E.	
3	ENGLAND EAST	Variable breezes, finally N th ; changeable, some cold showers.
4	MIDLAND COUNTIES	
5	ENGLAND SOUTH	

DISTRICTS.

FORECASTS.

6	SCOTLAND WEST	NE th and N th winds, light to fresh; fair generally, but some showers.
7	ENGLAND N.W.	
8	ENGLAND S.W.	N th winds, fresh or strong; changeable some showers
9	IRELAND NORTH	N th to NE th winds, freshening; changeable; some showers.
10	IRELAND SOUTH	Same as No 8

WARNINGS

NONE ISSUED.

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

YESTERDAY'S 2 P.M. REPORTS.

	Bar.	Dry.	Wet.	Wind.	Wea.	Sea.		Bar.	Dry.	Wet.	Wind.	Wea.	Sea.
Skudesnaes ...	29.60	48	46	SSW 6	r	5	Holyhead ...	29.80	53	49	SW 5	cq	4
Sumburgh Head ...	29.42	49	47	20 0	bc	3	Valencia ...	29.83	55	52	W 4	bcp	4
Stornoway ...	29.41	48	47	SW 20	0	3	Scilly ...	29.93	55	52	W 4	0	5
Aberdeen ...	29.48	49	45	W 5	bc	4	Jersey ...	30.02	56	53	SW 4	0	3
Shields ...	29.63	54	49	WSW 5	bc	2	Dungeness ...	29.98	55	52	W 4	c	3
Ardrossan ...	29.61	48	46	WSW 4	r	3	London ...	29.93	56	50	SW 3	0	*
Malin Head ...	29.61	51	49	WSW 4	b	4	Yarmouth ...	29.91	52	49	WSW 3	e	3
Mullaghmore ...	29.68	52	49	WSW 5	c/p	4	Rochefort ...	30.10	63	62	SSW 4	W	2
Belmullet ...	29.70	51	49	W 3	c	*							

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

The Continental Information will appear in tomorrow's Report.

EXPLANATION OF COLUMNS GIVEN ON PAGE 1.

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

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

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

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

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for *Friday, 2nd November* 1888.
Issued by the Meteorological Office, 116, Victoria Street, London. R. H. SCOTT, Secretary.

		+ YESTERDAY EVENING.					8 A.M. TO DAY.										PAST 24 HOURS.		
STATIONS.		Barometer at 32° F. and Sea Level.	Temp. in Shade.	WIND.		Weather.	BAROMETER.		SHADE TEMP.			WIND.		Weather.	Sea (0 to 9.)	SHADE TEMP.			
				Dir.	Force (0 to 12.)		Reading at 32° F. and Sea Level.	Difference from 8 a.m. yesterday.	Dry.	Wet.	Difference from 8 a.m. yesterday.	Dir.	Force (0 to 12.)			Max.	Min.	Amount of Rainfall.	
SCANDINAVIA.	Haparanda ..	29.64	21	SW	2	0	29.70	-24	23	22	+24	NW	2	0	*	30	12	-	
	Hernösand ...	29.99	21	Z	0	6	29.98	-03	26	24	+11	Z	0	0	*	32	23	0.04	
	Stockholm ...	30.02	25	N	2	6	30.07	+29	26	24	-4	Z	0	0	*	46	?	-	
	Wisby ...	29.97	35	E	2	6	30.09	+38	31	30	-13	E	2	0	*	37	18	0.04	
	Bodö ...	29.69	37	WSW	8	m	29.87	+01	36	31	+15	WSW	3	0	1	37	18	0.04	
	Christiansund...	29.98	32	NE	1	6	30.06	+21	36	33	+3	S	1	0	2	36	28	-	
	Skudesnaes ...	29.92	43	E	2	0	30.03	+43	37	36	-9	NE	1	6	3	37	34	-	
	Christiania Fjord (Fjord)	29.99	35	NNE	5	0	30.03	+28	33	31	-3	NNE	5	0	2	36	30	-	
	Skagen (The Seaw)	29.88	42	NE	5	0	29.98	+34	41	40	-5	ESE	3	0	2	48	41	0.04	
	Fanö ...	29.78	46	ESE	4	0	29.80	+11	46	45	-1	E	6	0	*	52	45	0.08	
BRITISH ISLANDS.	Sumburgh Head	29.95	41	NNE	4	0	30.07	+32	37	36	-4	N	1	0	3	51	36	0.01	
	Stornoway ...	29.98	44	E	6	0	30.02	+30	42	41	-4	E	5	0	4	46	39	0.06	
	Wick ...	29.98	47	NE	4	0	30.04	+28	44	42	+1	E	4	0	3	45	40	0.01	
	Nairn ...	29.93	44	ENE	4	0	29.99	+30	44	43	-1	ENE	4	0	5	46	41	0.11	
	Aberdeen...	29.88	42	N	6	ogpu	29.97	+29	46	44	+4	E	5	ogpu	6	47	41	0.21	
	Leith ...	29.80	44	NE	5	0	29.88	+24	44	42	+4	NE	4	0	*	58	38	0.85	
	Shields ...	29.71	48	NE	3	0	29.76	+12	49	47	+7	NE	4	0	4	52	41	0.03	
	Spurn Head ...	29.64	48	NE	3	0	29.49	-14	49	49	+5	NE	8	0	6	49	43	0.07	
	York ...	29.67	46	N	1	0	29.64	00	47	46	+6	NE	3	0	*	50	40	0.41	
	Loughborough	29.64	46	ENE	1	0	29.51	-15	46	45	+3	NNE	5	0	*	49	43	0.24	
GERMANY.	Ardrossan ...	29.79	45	NE	2	ogpu	29.88	+24	42	39	0	NE	4	0	2	49	39	-	
	Malin Head ...	29.81	45	NE	6	ogpu	29.89	+24	45	42	-1	NE	3	0	3	49	45	0.02	
	Mullaghmore ...	29.80	47	NE	6	0	29.91	+22	46	42	-1	NE	5	0	3	53	44	-	
	Belmullet ...	29.82	48	NNE	6	ogpu	29.93	+21	45	44	-2	N	3	0	*	52	42	0.09	
	Donaghadee ...	29.77	49	NE	4	0	29.85	+20	45	43	-2	NE	6	0	4	50	43	0.02	
	Barrow-in-Furness	29.69	47	NNE	3	0	29.69	+07	47	44	+1	N	4	0	*	56	44	-	
	Liverpool (Bidston)	29.67	46	NE	3	0	29.86	+03	47	45	+2	N	4	0	4	49	48	0.06	
	Holyhead ...	29.67	48	NE	4	0	29.71	+09	49	47	+3	NNE	6	0	5	50	46	0.06	
	Parsonstown ...	29.74	46	Z	0	0	29.84	+14	43	40	+1	NW	3	0	*	49	36	-	
	Valencia ...	29.77	49	NNE	4	ogpu	29.86	+10	46	44	-1	NE	3	0	4	58	43	0.10	
FRANCE & NETHERLANDS.	Roche's Point...	29.70	47	N	3	0	29.77	+10	44	41	0	N	4	0	3	56	42	-	
	Pembroke ...	29.61	46	NNE	2	0	29.63	+02	49	46	+1	NNE	4	0	2	62	44	0.02	
	Scilly ...	29.56	51	N	6	chp	29.60	-04	51	47	+2	NNE	5	0	4	62	45	0.20	
	Prawle Point ...	29.55	46	ENE	2	0	29.52	-11	45	44	-1	N	3	0	1	53	41	0.59	
	Jersey ...	29.52	49	W	3	ogpu	29.48	-22	47	45	-2	NNE	2	0	2	56	46	0.40	
	Hurst Castle ...	29.55	49	E	4	0	29.44	-19	46	46	-3	NNE	2	0	2	52	45	0.23	
	Dungeness ...	29.52	48	NE	3	0	29.40	-25	48	47	-2	Z	0	0	3	50	45	0.55	
	London ...	29.58	49	ENE	2	0	29.40	-25	47	47	0	NNE	1	og	*	50	46	0.66	
	Oxford ...	29.60	45	SE	1	0	29.42	-23	45	45	+3	N	3	0	*	52	40	0.45	
	Cambridge ...	29.60	45	N	1	0	29.42	-24	49	49	+7	E	1	0	*	49	41	0.51	
PENINSULA.	Yarmouth ...	29.60	48	E	4	0	29.48	-18	50	49	+5	ESE	4	0	5	50	44	0.47	
	Cuxhaven ...	29.74	45	ESE	4	0	29.74	-05	46	46	-1	E	5	0	*	48	44	0.12	
	Berlin ...	29.75	49	ENE	3	0	29.78	-08	48	48	+3	ESE	3	0	*	50	?	0.04	
	Wiesbaden ...	*	*	*	*	*	29.86	-22	50	48	0	Z	0	0	*	53	45	-	
	Munich ...	29.75	45	NE	2	0	29.62	-27	36	36	-2	NE	5	0	*	57	32	-	
	The Helder ...	29.61	49	ENE	5	0	29.56	-14	49	48	+1	E	4	0	3	52	48	0.08	
	Brussels ...	*	*	*	*	*	29.49	-22	50	49	+3	S	1	0	*	53	?	0.95	
	Cape Gris Nez...	29.51	47	E	1	0	29.44	-24	45	45	-2	SSW	5	0	4	54	45	0.28	
	Paris ...	29.52	?	WSW	1	0	29.47	-21	45	45	-7	Z	0	0	*	57	45	0.28	
	Brest ...	29.61	48	NW	4	0	29.56	-22	47	47	-5	NW	3	0	2	63	41	-	

For Explanation of Columns, see p. 4.

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

WEATHER CHARTS

for 8 a.m. on

Friday, 2nd November,

1888.

BAROMETER, WIND & SEA.

(Explanation of Map)

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

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

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

→ = forces 5 to 7; → = forces 1 to 4;

○ = dead calm.

Sea Disturbance — where considerable is shown thus:

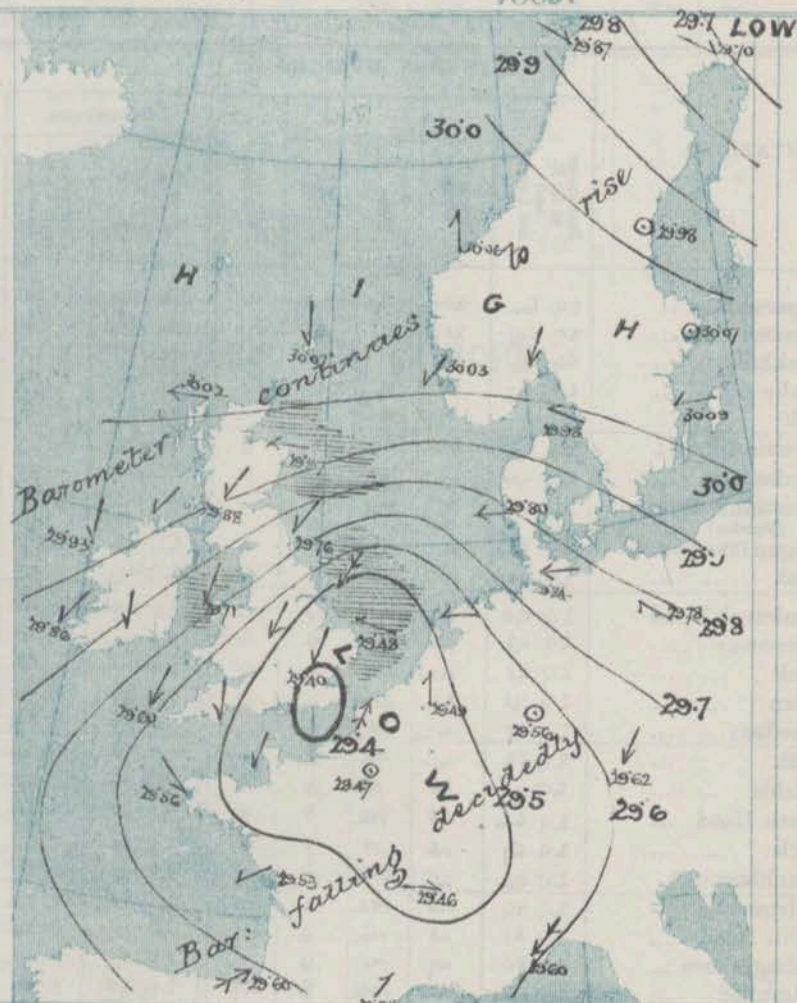
■ = Rough; ■ = High.

MEAN HEIGHT of the BAROMETER

at 8 a.m. for the month of 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	29.876
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



GENERAL SITUATION AT 8 A.M.

PRESSURE

Highest, 30.0 ins. and upwards, in the north of Scotland and the south of Scandinavia, as well as in Portugal.
Lowest, 29.40 ins. in London, 29.5 ins. and less, in a large and irregularly formed area lying over the southeast of England and the northern and central parts of France.
Barometer steep over the North Sea and our northeast coasts, and rather steep in the west, but slight elsewhere.
Barometer falling in the Netherlands, France and the southeast of England, but rising elsewhere.

TEMPERATURE

Highest, 53° at Dublin, 51° at Sully, 50° at Yarmouth, Bournemouth, Newcastle, and Nice, and 49° at Shields, Lymington, Holyhead, and Cambridge.
Lowest, 23° at Haparanda, 26° at Helsingfors and Stockholm, 31° at Kibik, 33° at Fander, and 36° at Rode and Christiansund.

WIND

NE^{ly} over the greater part of our Islands; strong on our west and northeast coasts, with a gale at Spurn Head.
E^{ly} on the eastern shore of the North Sea, W^{ly} in the north of Scandinavia and the south of France.
Variable over central France and also in the extreme southeast of England.

WEATHER

Rainy at many of the English and French stations, with a thunderstorm at Nice.
Foggy in Germany, fair over the greater part of Ireland, Scotland and Scandinavia.
Heavy rain fell yesterday over England and France, the largest amount being 2.1 in. at Nice, 1.2 in. at Biarritz, 0.8 in. at Rochefort, and 0.7 in. in London.

SEA

Rough on our north and northeast coasts, and rather rough at Holyhead and Biarritz, but moderate to smooth elsewhere.

PROBABLE CHANGES IN SYSTEM NOW PREVALENT

The low pressure system noticed above will probably move slowly southeastwards, but as there are some indications of the development of shallow depressions in its rear no immediate improvement in the weather is anticipated over England.

FORECASTS

for the 24 hours ending at NOON on 3rd November. 1888.

DISTRICTS.		FORECASTS.	
0	SCOTLAND NORTH	E ^{ly} and NE ^{ly} winds, strong, a gale in places; unsettled, some cold showers.	6 SCOTLAND WEST
1	SCOTLAND EAST		
2	ENGLAND N.E.	NE ^{ly} strong winds and gales; dull, rain at times.	7 ENGLAND N.W.
3	ENGLAND EAST	NE ^{ly} winds freshening; changeable, some rain.	8 ENGLAND S.W.
4	MIDLAND COUNTIES		
5	ENGLAND SOUTH		
		DISTRICTS.	
		FORECASTS.	
		7 ENGLAND N.W.	NE ^{ly} winds, moderate or fresh; changeable, some showers.
		8 ENGLAND S.W.	N ^{ly} and NE ^{ly} winds, strong; unsettled, some showers.
		9 IRELAND NORTH	NE ^{ly} strong winds or gales; unsettled, some showers.
		10 IRELAND SOUTH	Same as No 6.
		WARNINGS	
		The N. cone was hoisted yesterday in districts 0 to 2, 7, 8, and 9.	

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

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

YESTERDAY'S 2 P.M. REPORTS.

	Bar.	Dry.	Wet.	Wind.	Wen.	Sea.		Bar.	Dry.	Wet.	Wind.	Wen.	Sea.
Skudesnaes ...	29.77	43	41	E 4	0	4	Holyhead ...	29.65	49	46	NE 3	bc p	2
Sumburgh Head ...	29.89	41	36	NNE 4	c	5	Valencia ...	29.76	51	46	N 4	bc q	4
Stornoway ...	29.91	44	43	E 6	0	5	Sailly ...	29.54	50	47	WNW 6	c q	5
Aberdeen ...	29.79	44	43	NNE 6	3 q pu	6	Jersey ...	29.86	53	49	W 3	bc	3
Shields ...	29.68	51	48	N 3	c	2	Dungeness ...	29.56	49	48	S 1	r	1
Ardrossan ...	29.72	48	45	NE 2	c	1	London ...	29.59	50	48	W 0	og fd	*
Malin Head ...	29.72	48	45	NE 5	bc	4	Yarmouth ...	29.63	50	49	NE 2	c q	2
Mullaghmore ...	29.70	50	47	WNW 5	c p v	3	Rocheport ...	29.70	52	51	WSW 5	o	2
Belmullet ...	29.77	51	47	NNE 3	c	*							

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

The Continental Information is not yet to hand.

General Remarks on the Weather during the 24 hours ended at 8 a.m. on Nov^r 1st 1888.

The reports for Wednesday morning showed that pressure then varied from between 30.1 ins. and 30.3 ins., in a large high pressure area which covered the Mediterranean and Southern Europe, and from about 29.3 ins. in a ridge, which extended thence in a northerly direction over the Baltic and Gulf of Bothnia, to rather below 29.4 ins. in a depression, the centre of which lay off the north of Scotland. Gradients were somewhat steep over Ireland, England, and the North Sea, moderate or slight elsewhere. The wind was SW^r and W over the United Kingdom, S^r on the eastern shores of the North Sea and in Sweden; but N^r over Finland and Russia, E^r over the south of France, and extremely variable elsewhere. The weather was fine over the greater part of England and the northern parts of Scandinavia, unsettled elsewhere, with rain in many parts of France, Ireland and Scotland. Temperature was giving way, and varied from 60° and more over many parts of the Mediterranean to a little above 50° at some of our own and the French stations, and to much below the freezing point in Lapland, Finland and N^r Russia. The highest individual values were 64° at Barcelona, 63° at Bilbao and Nemours, 62° at Algiers and Malta, 60° at Vienna, Livourne, Cagliari, Palermo, and Corunna, 53° at Brindisi, 55° at Trieste and Fiume and 53° at Scilly; the lowest were 10° at Oran, 13° at Marseilles, 14° at Haparanda, 15° at Helsingfors, 16° at Krasnodar, 23° at Moscow and Rostov, 27° at St. Petersburg, and 31° at Stockholm.

Later on the low pressure area in the north began to fill up, while the high pressure area in the south began to give way, and an important change of weather took place over the United Kingdom generally.

EXPLANATION OF COLUMNS GIVEN ON PAGE 1.

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

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

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

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

DAILY WEATHER REPORT.

for Saturday, 3rd November

1888.

Issued by the Meteorological Office, 116, Victoria Street, London. R. H. SCOTT, Secretary

		+ YESTERDAY EVENING.					8 A.M. TO DAY.										PAST 24 HOURS.		
STATIONS.		Barometer at 32° F. and Sea Level.	Temp. in Shade.	WIND.		Weather.	BAROMETER.		SHADE TEMP.			WIND.		Weather.	Sea. (0 to 9.)	SHADE TEMP.		Amount of Rainfall.	
				Dir.	Force. (0 to 12.)		Reading at 8 a.m. and Sea Level.	Difference from 8 a.m. yesterday.	Dry.	Wet.	Difference from 8 a.m. yesterday.	Dir.	Force. (0 to 12.)			Max.	Min.		
SCANDINAVIA.	Haparanda ..	29.86	27	2	0	0	29.92	+ .22	18	17	- .5	25	0	0	*	28	?	-	
	Hernösand ...	30.01	32	2	0	0	30.00	+ .02	33	32	+ .7	2	0	0	*	36	?	-	
	Stockholm ...	30.04	27	2	0	0	30.00	- .07	27	28	+ .3	2	0	0	*	32	26	-	
	Wisby ...	30.07	35	NW	4	0	30.01	- .08	32	31	+ .1	ESE	4	0	*	30	28	-	
	Bodö ...	29.87	37	WSW	2	0	29.79	- .08	41	39	+ .5	WSW	5	1	3	?	30	0.04	
	Christiansund...	30.09	38	SSW	2	0	30.11	+ .05	37	35	+ .1	SSW	3	0	3	?	34	-	
	Skudesnaes ...	30.06	39	NW	1	0	30.05	+ .02	38	37	+ .1	NNE	2	0	2	?	34	-	
	Christiania Fjord (Færdar)	30.09	34	NE	3	0	30.07	+ .04	31	28	- .2	NNE	5	0	1	36	28	-	
	Skagen (The Sea)	30.04	38	NE	1	0	30.02	+ .04	36	34	- .5	NE	1	0	1	43	36	-	
	Fanö ...	29.88	43	E	6	0	29.88	+ .08	41	38	- .5	ENE	6	0	*	48	41	-	
BRITISH ISLANDS.	Sumburgh Head	30.09	38	N	1	0	30.07	- .00	38	36	+ .1	25	0	0	1	49	36	0.03	
	Stornoway ..	30.01	44	E	4	0	29.92	- .10	46	45	+ .1	SE	6	0	4	46	40	-	
	Wick ...	30.05	44	NE	3	0	30.03	- .01	44	43	0	SE	4	0	4	45	40	0.02	
	Nairn ...	29.99	45	NE	3	0	29.96	- .03	45	44	+ .1	ESE	2	0	2	47	42	0.07	
	Aberdeen...	29.97	46	ENE	4	0	30.00	+ .03	45	43	- .1	E	7	0	7	48	45	0.01	
	Leith ...	29.84	46	E	6	0	29.89	+ .01	46	45	+ .2	E	5	0	5	48	43	0.30	
	Shields ...	29.68	47	NE	7	0	29.81	+ .05	48	47	- .1	E	7	0	6	49	46	0.92	
	Spurn Head ...	29.85	51	E	6	0	29.67	+ .18	50	49	+ .1	E	6	0	6	51	48	0.18	
	York ...	29.68	51	E	2	0	29.73	+ .09	50	49	+ .3	NE	2	0	*	52	45	0.46	
	Loughborough	29.82	48	ENE	1	0	29.62	+ .11	49	48	+ .9	ENE	3	0	3	51	45	0.38	
GERMANY.	Ardrossan ...	29.82	46	NE	4	0	29.84	- .04	48	46	+ .6	NE	4	0	2	48	42	0.03	
	Malin Head ...	29.86	47	NNE	4	0	29.83	- .06	49	47	+ .4	ESE	5	0	4	49	45	0.10	
	Mullaghmore ...	29.85	47	NNE	5	0	29.75	- .16	50	48	+ .4	E	5	0	3	50	45	0.07	
	Belmullet ...	29.88	45	NE	3	0	29.76	- .17	49	48	+ .4	ENE	2	0	*	49	44	0.08	
	Donaghadee ...	29.75	48	NE	4	0	29.80	- .05	50	48	+ .5	ESE	6	0	5	50	45	0.42	
	Barrow-in-Furness	29.57	50	NE	4	0	29.75	+ .06	51	48	+ .4	NE	3	0	*	52	46	0.32	
	Liverpool (Bidston)	29.66	48	NE	1	0	29.67	+ .01	50	48	+ .3	ENE	4	0	4	52	45	0.47	
	Holyhead ...	29.68	49	NNE	6	0	29.67	- .04	51	50	+ .2	ENE	5	0	5	52	48	0.25	
	Parsonstown ...	29.78	45	NW	3	0	29.64	- .20	50	49	+ .7	25	0	0	*	50	41	0.11	
	Valencia ...	29.88	48	N	2	0	29.71	- .15	50	48	+ .4	N	3	0	3	50	43	-	
FRANCE & NETHERLANDS.	Roche's Point...	29.71	48	N	4	0	29.61	- .16	48	47	+ .4	N	5	0	4	50	43	0.10	
	Pembroke ...	29.52	47	NNE	4	0	29.56	- .07	48	47	+ .1	E	2	0	1	50	47	0.18	
	Scilly ...	29.54	50	NW	2	0	29.51	- .09	50	49	- .1	NW	1	0	4	50	47	0.46	
	Prawle Point ...	29.44	45	NW	2	0	29.53	+ .01	47	47	+ .2	ENE	8	0	1	47	42	0.15	
	Jersey ...	29.43	47	NW	2	0	29.52	+ .09	46	45	- .1	NW	2	0	2	51	41	0.47	
	Harst Castle ...	29.43	49	ENE	4	0	29.55	+ .11	47	47	+ .1	NE	3	0	1	51	46	0.10	
	Dungeness ...	29.45	48	25	0	0	29.53	+ .13	48	47	0	ENE	2	0	1	52	46	0.44	
	London ...	29.51	47	E	2	0	29.58	+ .18	46	45	- .1	S	1	0	1	50	43	0.75	
	Oxford ...	29.51	46	E	1	0	29.58	+ .16	46	45	+ .1	25	0	0	*	49	45	0.88	
	Cambridge ...	29.49	47	E	1	0	29.50	+ .19	50	49	+ .1	ENE	1	0	*	52	47	0.41	
PORTUGAL.	Yarmouth ...	29.50	52	E	6	0	29.60	+ .12	50	49	0	E	7	0	6	52	48	0.14	
	Cuxhaven ...	29.75	45	E	7	0	29.75	+ .01	46	45	0	E	6	0	*	48	44	-	
	Berlin ...	29.74	50	E	4	0	29.71	- .07	48	42	- .5	E	5	0	*	50	43	-	
	Wiesbaden ...	*	*	*	*	*	29.85	- .01	49	47	- .1	NE	2	0	*	57	48	-	
	Munich ...	29.46	46	E	4	0	29.59	- .03	39	38	+ .3	W	6	0	*	50	?	0.08	
	The Helder ...	?	53	?	7	0	29.67	+ .11	47	46	- .2	E	5	0	4	52	46	0.04	
	Brussels ...	*	*	*	*	*	29.58	+ .09	46	46	- .4	FW	3	0	*	56	46	0.12	
	Cape Gris Nez...	29.46	44	25	0	0	29.56	+ .12	48	48	+ .3	SE	3	0	1	48	45	0.70	
	Paris ...	29.52	46	SSE	1	0	29.60	+ .13	39	38	- .6	S	3	0	*	49	38	0.20	
	Brest ...	29.63	52	NW	7	0	29.64	+ .08	49	47	+ .2	NW	9	0	5	54	39	0.89	
PORTUGAL.	Lorient ...	29.55	51	N	5	0	29.60	+ .11	52	49	+ .6	NW	8	0	7	?	43	0.16	
	Rochefort ...	29.63	51	NW	4	0	29.74	+ .21	55	51	+ .8	NW	5	0	3	?	45	0.24	
	Belfort ...	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	
	Lyons ...	29.62	41	S	1	0	29.74	+ .28	41	39	- .4	W	1	0	*	?	39	1.97	
	Nice ...	29.50	50	WSW	4	0	29.61	+ .01	42	50	- .8	SW	3	0	5	57	42	2.01	
	Perpignan ...	29.67	58	25	0	0	29.83	+ .24	50	44	0	NW	4	0	*	59	44	-	
	Biarritz ...	29.69	54	W	11	0	29.87	+ .27	51	47	+ .3	WSW	9	0	4	55	46	0.91	
	Corunna ...	*	*	*	*	*	29.84	+ .05	53	50	+ .1	NW	4	0	4	59	48	0.16	
	Lisbon ...	30.07	57	NW	4	0	30.10	+ .09	55	50	+ .2	25	0	0	2	63	?	-	

WEATHER CHARTS

for 8 a.m. on Saturday, 3rd November, 1888.

BAROMETER, WIND & SEA.

(Explanation of Map)

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

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

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

Sea Disturbance — where considerable, is shown thus.

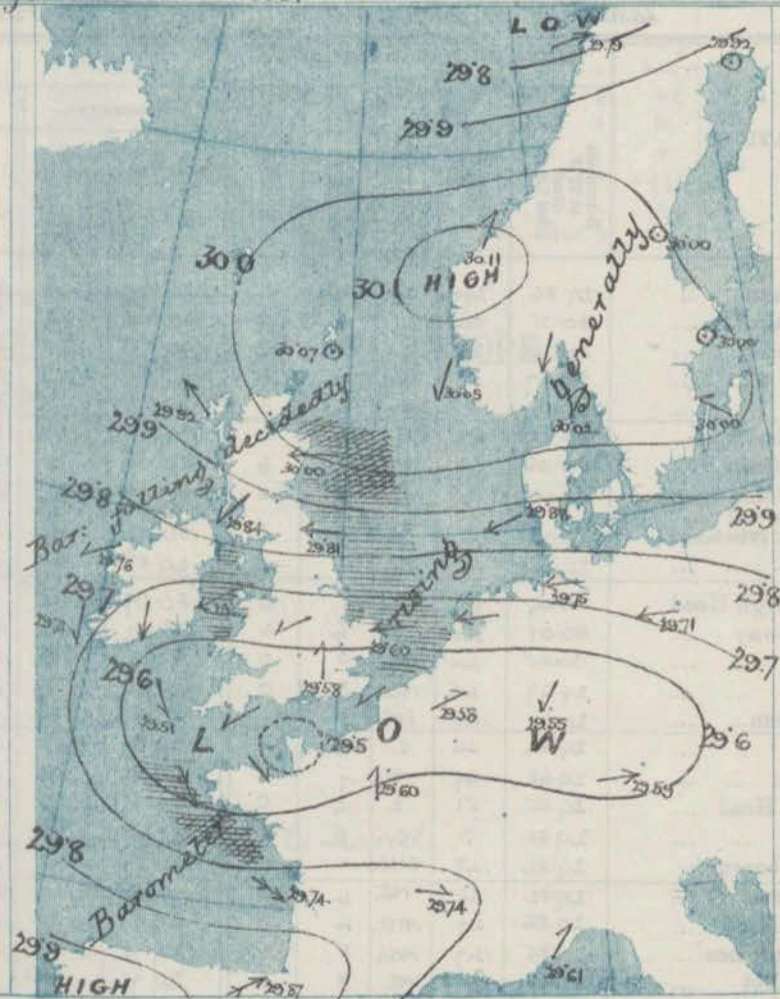
— Rough. — High.

MEAN HEIGHT of the BAROMETER

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

During the 15 Years 1871-1885.

STATIONS.	MEAN READINGS.
	in.
Sumburgh Head.	29.687
Stornoway	29.707
Wick	29.726
Nairn	29.743
Aberdeen	29.756
Leith	29.793
Shields	29.816
York	29.844
Loughborough	29.876
Ardrossan	29.795
Donaghadee	29.811
Holyhead	29.885
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.

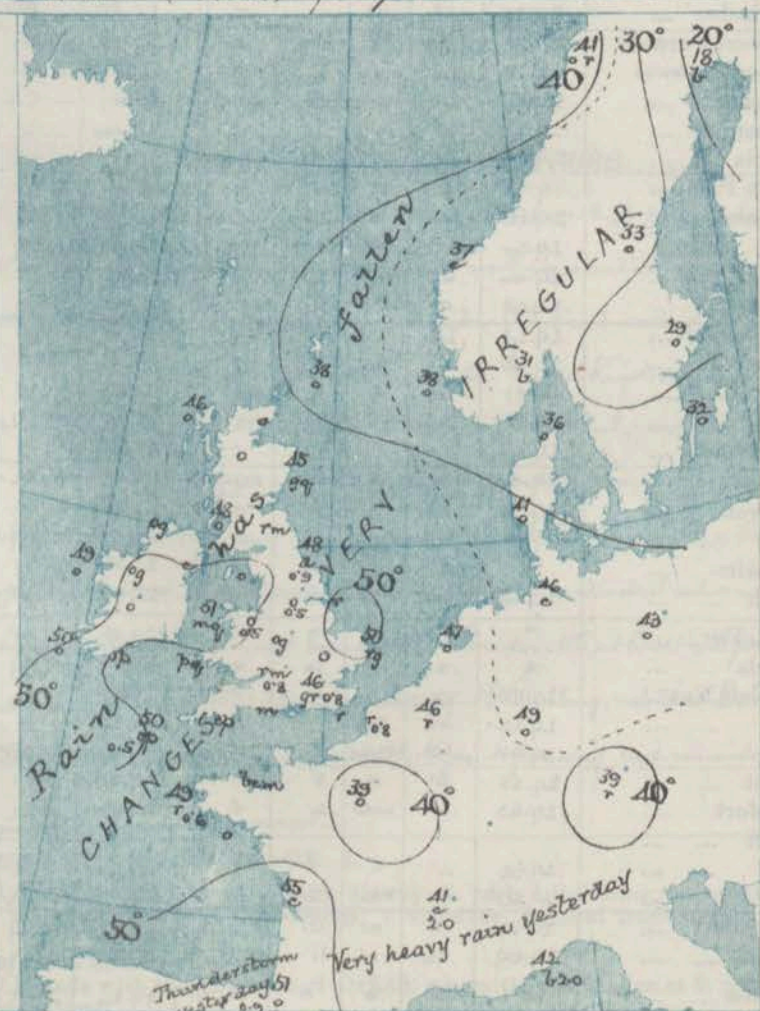
Rainfall — A dotted line separates the districts in which rain has fallen from those where there has been none. Falls of 0.5 in. or more, are quoted in figures.

MEANS OF TEMPERATURE IN SHADE. AND RAINFALL.

for the month of November.

STATIONS	TEMPERATURE.				RAINFALL. (Inches)
	Daily Max.	Daily Min.	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	4.00
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	4.56
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	4.24
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	42.0	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, 30.11 ins: at Christiansund; 30.10 ins: at Lisbon.
Lowest, 29.52 ins: at Jersey; 29.6 ins: and less, in a long trough extending from our southwest coast to South Germany.
Gradient rather steep over the North Sea, but moderate or slight elsewhere.
Barometer falling decidedly on our western and northwestern coasts and also in the north of Norway, but rising elsewhere.

TEMPERATURE

Highest, 55° at Rochfort and Lisbon, 52° at Lorient, and 51° at Kennerly, and 50° at Helsingfors, and 49° at Stockholm.
Lowest, 18° at Kaparanda, 23° at Stockholm, 31° at Tander, 32° at Nisby, 33° at Helsingfors, and 35° at Skagen.

WIND

Strong to gale from the E. over the North Sea and our north and east coasts, light from the same quarter in the south of England.
Moderate from N. on our southwest coast; strong to gale from W. over the Bay of Biscay.
A fresh N.E. gale was experienced yesterday at Aberdeen and a N.W. gale at Scilly.

WEATHER

Bell generally, with rain at many of the English stations, as well as in the Netherlands and South Germany.
Heavy rain fell yesterday in most parts of England and France, the largest amount being 2.0 ins: at Lyons and Nice, 1.3 ins: at Sittingbourne, 0.9 ins: at Shields and Biarritz, 0.8 ins: at Oxford, Cape Fin Neg, and in London, and 0.6 ins: at Brest.

SEA

High at Aberdeen and Lorient, rough on our east coasts generally, and rather rough in the Irish Sea and the Bay of Biscay.

PROBABLE CHANGES IN SYSTEM NOW PREVALENT

The low pressure system in the south appears to be filling up, but another depression is apparently advancing towards our extreme northwest coast and unsettled weather is likely to continue generally, with strong winds or gales on all our north and east coasts.

FORECASTS

For the 24 hours ending at NOON on 4th NOVEMBER 1888.

DISTRICTS.

FORECASTS.

1	SCOTLAND NORTH	SE ^{ly} Winds, strong to a gale; unsettled, some rain.
2	SCOTLAND EAST	E ^{ly} to SE ^{ly} strong winds and gales; unsettled, some rain.
3	ENGLAND N.E.	
4	ENGLAND EAST	
5	MIDLAND COUNTIES	Light and somewhat variable breezes; drizzle, some mist and rain.
6	ENGLAND SOUTH	

DISTRICTS.

FORECASTS.

7	SCOTLAND WEST	E ^{ly} to SE ^{ly} winds, increasing in force; unsettled, some rain.
8	ENGLAND N.W.	
9	ENGLAND S.W.	N ^{ly} to NW ^{ly} winds, increasing in force; squally, showery.
10	IRELAND NORTH	Same as Nos 7 to 9
11	IRELAND SOUTH	Same as No 8

WARNINGS

The NORTH CONE was hoisted yesterday in districts 3, 6, and 10, and the signals are now flying in all districts excepting 5.

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

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

YESTERDAY'S 2 P.M. REPORTS.

	Bar.	Dry.	Wet.	Wind.	Wca.	Sea.		Bar.	Dry.	Wet.	Wind.	Wca.	Sea.
Skudesnaes ...	30.04	51	43	N.W. 2	b	2	Holyhead ...	29.62	49	47	N.E. 4	r.g.w	6
Sumburgh Head ...	30.06	41	38	N 1	c	3	Valencia ...	29.84	49	45	N.E. 3	c	4
Stornoway ...	30.01	46	44	E 5	c	4	Scilly ...	29.58	53	49	N.W. 6	c	5
Aberdeen ...	29.97	46	43	N.E. 6	o.g.w	6	Jersey ...	29.44	50	47	N.W. 2	o	2
Shields ...	29.69	47	46	N.E. 7	r	6	Dungeness ...	29.44	50	49	S 4	r	3
Ardrossan ...	29.84	48	45	N.E. 4	o	2	London ...	29.45	50	48	S.E. 2	om.g	*
Malin Head ...	29.87	47	44	N.E. 4	b	4	Yarmouth ...	29.50	52	51	S 5	c.g	4
Mullaghmore ...	29.88	49	44	N 4	b	3	Rochefort ...	29.68	49	46	N.W. 5	c	2
Belmullet ...	29.89	49	44	N.E. 3	c	*							

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

The reports for yesterday showed that barometric pressure exceeded 30.0 ins: in a broad band, or "col" stretching from NW to SE. across Scandinavia, the Baltic and Western Russia; — apparently uniting a high pressure area, which lay over the British Peninsula, the Black Sea and Asiatic Turkey with another lying to the N^W and NW^W of the British Isles. To the south-westward of this band it decreased to between 29.4 ins: and 29.5 ins: in an irregularly shaped depression lying over the north-east of France and the south-east of England, while to the NE^W it decreased to rather below 29.5 ins: over the White Sea, and apparently to a still lower value further northward. Thus, while NW^W winds prevailed over Lapland, Finland, and Northern Russia, with fair cold weather, E to N winds were experienced over the North Sea and British Isles, blowing very strongly in several places and accompanied by much rain and gloomy weather. In France the wind was light and very variable, the weather very rainy and unsettled, and thunderstorms had been very prevalent in the east and south. Temperature continued to decrease over France, but showed some slight recovery in our Islands. It varied from 60° and more over the eastern and southern sides of the Mediterranean and from upwards of 50° at the mouth of the Channel to much below the freezing point over Northern and Central Russia. The highest morning values reported were 66° at Palermo, 65° at Oran, Algiers and Laballe, 63° at Cagliari, 62° at Livorno, 61° at Brindisi and Rome, 54° at Barcelona and Odessa, 53° at San Fernando, 51° at Algeiras and Seilly; the lowest were 16° at Moscow, 18° at Archangel, 22° at St. Petersburg, 23° at Haparanda, Uleaborg and Helsingfors, 24° at Kiev, and 26° at Helsingfors and Stockholm. In the British Isles the readings were nearly all between 40° and 50°.

During the day, rainy gloomy weather, with fog locally, continued very prevalent over Western Europe, and the NE winds blew still more strongly in the east and north of the British Isles.

EXPLANATION OF COLUMNS GIVEN ON PAGE 1.

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

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

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

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

DAILY WEATHER REPORT.

for Sunday 4th Nov^r

1888.

Issued by the Meteorological Office, 116, Victoria Street, London. R. H. SCOTT, Secretary.

		+ YESTERDAY EVENING.					8 A.M. TO DAY.										LAST 24 HOURS.		
STATIONS.		Barometer at 32° F. and Sea Level.	Temp. in Shade.	WIND.		Weather.	BAROMETER.		SHADE TEMP.			WIND.		Weather.	Sea (0 to 5.)	SHADE TEMP.		Amount of Rainfall.	
				Dir.	Force (0 to 12.)		Reading at 8 A.M. and Sea Level.	Difference from 8 A.M. yesterday.	Dry.	Wet.	Difference from 8 A.M. yesterday.	Dir.	Force (0 to 12.)			Max.	Min.		
SCANDINAVIA.	Haparanda ..	30.00	12	Z	0	b	30.27	+ 35	23	32	+ 5	S	2	0	*	28	10	—	
	Hernösand ...	30.05	34	Z	0	c	30.25	+ 25	32	32	+ 1	Z	0	0	*	37	21	0.04	
	Stockholm ...	29.98	30	N	2	o	30.15	+ 15	30	28	+ 1	Z	0	0	*	36	21	—	
	Wisby ...	29.95	39	ENE	2	o	30.03	+ 02	35	34	+ 3	ESE	2	0	*	39	21	0.05	
	Bodö ...	30.03	40	W	2	o	30.13	+ 34	37	34	+ 4	WSW	2	0	1	41	20	0.04	
	Christiansund...	30.10	36	SE	1	c	30.12	+ 01	38	31	+ 4	ESE	1	0	2	39	30	—	
	Skudesnaes ...	30.07	39	SW	1	o	30.19	+ 14	37	36	+ 1	ESE	2	0	2	41	36	—	
	Christiania Fjord (Farder)	30.06	33	NNE	4	b	30.19	+ 12	36	39	+ 5	NE	5	0	2	2	28	—	
	Skagen (The Sound)	29.99	36	NE	1	o	30.08	+ 16	38	36	+ 2	NE	2	0	2	39	36	—	
	Fanö ...	29.96	38	ENE	4	o	30.04	+ 16	36	34	+ 5	NE	4	0	*	41	34	—	
BRITISH ISLANDS.	Sumburgh Head	30.06	39	Z	0	o	30.07	+ 00	41	38	+ 3	SE	1	0	3	42	37	—	
	Sornoway ...	29.90	46	SE	5	b	29.87	+ 05	42	41	+ 4	Z	0	0	5	49	37	—	
	Wick ...	30.03	44	SE	3	o	30.02	+ 01	44	41	+ 0	SE	4	0	5	45	40	—	
	Nairn ...	29.94	45	ESE	1	o	29.97	+ 01	40	38	+ 5	ESE	1	0	1	46	38	—	
	Aberdeen...	30.00	44	ESE	5	o	30.03	+ 03	43	39	+ 2	SE	4	0	5	46	43	—	
	Leith ...	29.93	46	E	3	o	29.93	+ 04	45	42	+ 1	ESE	4	0	*	47	44	0.04	
	Shields ...	29.85	47	E	5	b	29.92	+ 11	47	45	+ 1	E	5	0	6	45	45	0.03	
	Spurn Head ...	29.94	49	E	6	r	29.85	+ 48	47	45	+ 3	E	6	0	6	50	46	0.08	
	York ...	29.79	49	E	2	m	29.87	+ 14	46	44	+ 4	E	3	0	*	51	44	0.01	
	Loughborough	29.72	49	ENE	2	o	29.79	+ 17	47	46	+ 2	E	1	0	1	50	46	0.06	
GERMANY.	Ardrossar ...	29.86	47	NE	4	om	29.86	+ 02	45	43	+ 3	ENE	4	0	2	48	42	—	
	Malin Head ...	29.77	49	ESE	6	o	29.77	+ 06	49	46	+ 0	SE	7	0	4	50	45	—	
	Mullaghmore ...	29.73	50	E	5	omg	29.67	+ 08	50	49	+ 0	E	5	0	1	51	47	0.06	
	Belmullet ...	29.71	50	E	5	o	29.64	+ 12	50	48	+ 1	ESE	3	0	*	51	48	0.01	
	Donaghadee ...	29.80	50	ENE	5	b	29.78	+ 02	48	48	+ 2	E	5	0	1	52	47	0.02	
	Barrow-in-Furness	29.75	50	NE	4	o	29.83	+ 18	47	45	+ 4	ENE	6	0	*	52	46	—	
	Liverpool (Bldston)	29.73	50	ENE	3	o	29.77	+ 10	47	45	+ 3	E	4	0	4	50	47	0.16	
	Holyhead ...	29.70	50	ENE	5	om	29.71	+ 04	49	47	+ 2	E	4	0	1	52	49	0.01	
	Parsonstown ...	29.66	50	NE	2	o	29.64	+ 00	46	45	+ 4	E	1	0	*	52	45	0.01	
	Valencia ...	29.62	51	N	1	om	29.52	+ 19	48	48	+ 2	E	3	0	3	53	47	—	
FRANCE & NETHERLANDS.	Roche's Point...	29.62	52	E	2	c	29.55	+ 06	50	49	+ 2	ESE	4	0	4	53	46	0.03	
	Pembroke ...	29.63	49	E	2	o	29.61	+ 05	49	48	+ 1	E	4	0	3	50	45	0.01	
	Scilly ...	29.56	51	ESE	1	c	29.54	+ 03	53	50	+ 3	SSE	4	0	5	55	47	0.01	
	Prawle Point ...	29.59	50	E	3	c	29.63	+ 10	52	49	+ 5	S	4	0	3	55	46	0.03	
	Jersey ...	29.63	51	WSW	3	og	29.72	+ 20	52	51	+ 6	SE	6	0	5	57	45	0.09	
	Hurst Castle ...	29.65	50	ESE	3	c	29.73	+ 18	52	50	+ 5	SSW	5	0	3	55	47	0.05	
	Dungeness ...	29.67	49	S	3	c	29.80	+ 27	52	49	+ 4	SSW	4	0	3	54	47	—	
	London ...	29.69	49	E	1	om	29.79	+ 21	45	45	+ 1	SE	1	0	*	51	43	—	
	Oxford ...	29.71	47	Z	0	r	29.77	+ 14	44	45	+ 0	ESE	3	0	*	48	42	0.11	
	Cambridge ...	29.70	47	ENE	1	r	29.82	+ 23	45	47	+ 2	E	1	0	*	51	46	0.11	
PENINSULA.	Yarmouth ...	29.70	49	E	5	o	29.86	+ 26	47	46	+ 3	E	6	0	6	50	45	0.03	
	Cuxhaven ...	29.87	41	E	6	c	29.98	+ 23	41	40	+ 5	NE	4	0	*	46	39	—	
	Berlin ...	29.94	39	NE	4	o	29.93	+ 22	37	33	+ 6	NE	3	0	*	48	36	—	
	Wiesbaden ...	*	*	*	*	*	29.91	+ 36	45	44	+ 4	NNW	2	0	*	50	45	—	
	Munich ...	29.71	37	SW	6	r	29.89	+ 30	41	40	+ 2	W	6	0	*	44	36	2.10	
	The Helder ...	29.82	46	E	3	c	29.95	+ 28	40	37	+ 7	E	1	0	2	47	37	—	
	Brussels ...	*	*	*	*	*	29.91	+ 29	45	45	+ 1	WSW	1	0	*	47	45	0.08	
	Cape Gris Nez...	29.69	45	SSW	1	o	29.79	+ 23	43	43	+ 5	S	3	0	1	54	41	0.04	
	Paris ...	29.76	47	SSW	1	o	29.91	+ 31	37	36	+ 2	SSE	1	0	*	49	35	—	
	Brest ...	29.67	45	WNW	11	b	29.67	+ 03	55	52	+ 6	S	4	0	4	64	41	0.20	
PENINSULA.	Lorient ...	29.70	54	W	8	o	29.66	+ 06	52	52	+ 0	S	1	0	5	51	48	0.67	
	Rochefort ...	29.87	54	W	5	c	29.85	+ 11	57	57	+ 2	SW	5	0	2	63	48	0.24	
	Belfort ...	29.82	41	W	1	o	30.00	+ 45	43	43	+ 3	W	1	0	*	50	40	0.08	
	Lyons ...	29.91	43	S	1	b	30.05	+ 31	38	26	+ 3	SW	2	0	*	50	36	—	
	Nice ...	29.70	54	NNW	8	b	29.82	+ 21	50	39	+ 8	NE	7	0	1	57	41	—	
	Perpignan ...	29.96	58	SW	1	b	30.02	+ 19	40	39	+ 10	NNW	2	0	*	62	39	—	
	Biarritz ...	29.92	53	W	3	o	29.98	+ 06	59	53	+ 8	SSW	4	0	3	59	45	0.35	
PENINSULA.	Corunna ...	*	*	*	*	*	29.84	+ 00	55	53	+ 2	NNW	4	0	5	61	45	0.47	
	Lisbon ...	30.12	52	SW	5	b	30.09	+ 01	59	58	+ 4	SSW	4	0	3	63	51	0.55	

WEATHER CHARTS

for 8 a.m. on Sunday, 4th November 1888.

BAROMETER, WIND & SEA.

(Explanation of Map)

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

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

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

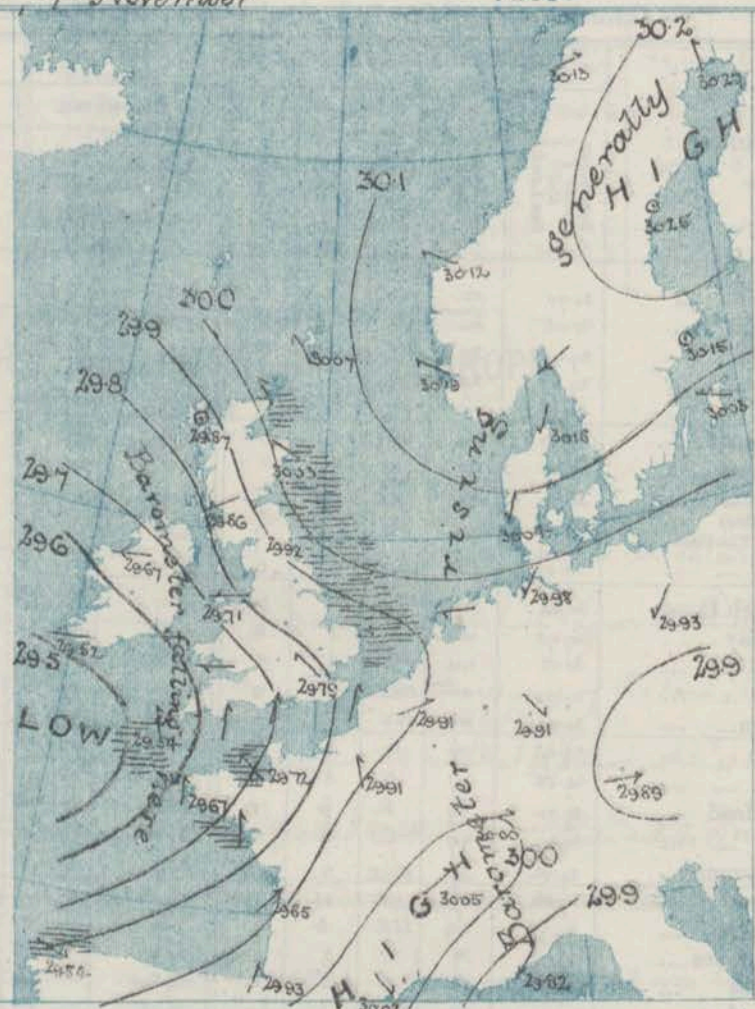
Sea Disturbance — where considerable, is shown thus.

— Rough. — High.

MEAN HEIGHT of the BAROMETER

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

STATIONS.	MEAN READINGS.
	in.
Sumburgh Head	29.687
Stornoway	29.707
Wick	29.726
Nairn	29.743
Aberdeen	29.756
Leith	29.793
Shields	29.816
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	29.886
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.

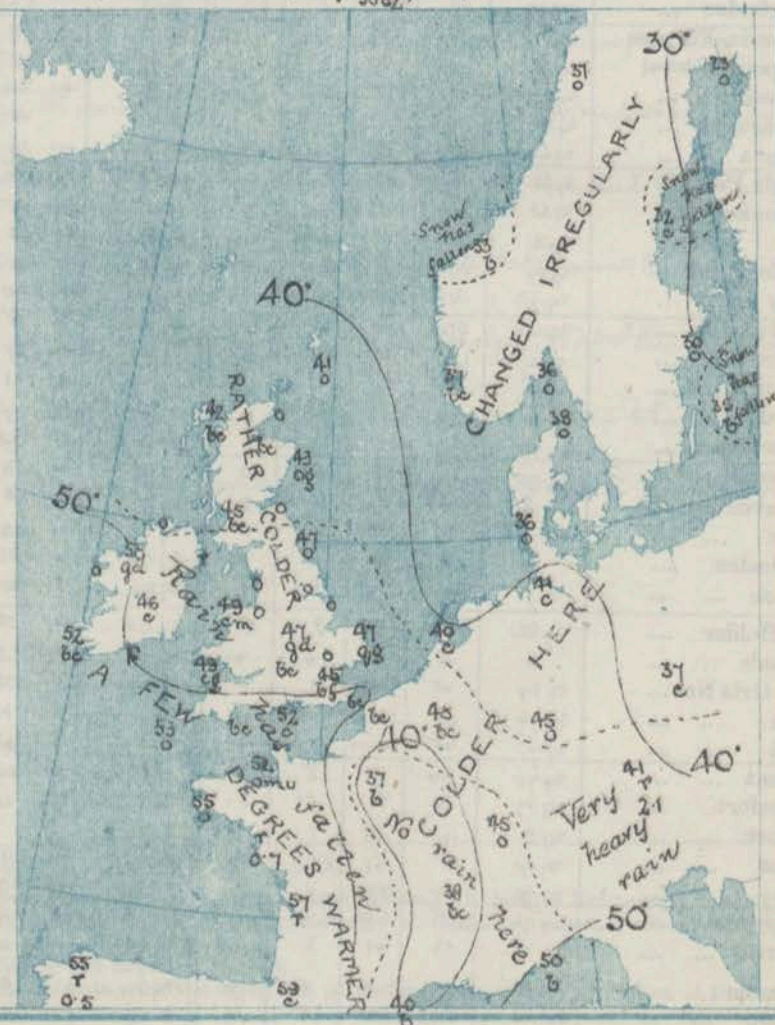
MEANS OF TEMPERATURE IN SHADE.

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	36.4	40.2	38.9	2.30
Ardrossan	47.7	39.9	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
Scilly	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	2.93
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 16 years 1871-86, the Rainfall means are mainly those for the 20 years 1866-85



GENERAL SITUATION AT 8 A.M.

PRESSURE

Highest, 30.2 ins. and upwards, over the north of Sweden; 30.0 ins. and upwards over Spain and the south of France.
Lowest, 29.5 ins. and less, in a depression lying to the southward of our Islands; 29.3 ins. and less, in another disturbance lying over Germany.
Isobars rather steep over our Islands and the north of France, but slight elsewhere.
Barometer falling a little in the west and extreme north of the United Kingdom and also in the west of France, but rising elsewhere.

TEMPERATURE

Highest, 53° at Biarritz and Lisbon, 51° at Rochefort, 55° at Areal and Corunna and 53° at Scilly.
Lowest, 23° at Haparanda, 30° at Stockholm, 32° at Helsingfors, 33° at Christianaund, 35° at Váky, and 36° at Jämt.

WIND

SE. or E. in our Islands; moderate in the south, but fresh or strong elsewhere.
S. or SW. elsewhere; light to fresh in force generally.
NE. in Denmark and North Germany; variable in Scandinavia.

WEATHER

Fine in the south parts of our Islands and France.
Cloudy or overcast elsewhere, with rain in the north of Ireland and west of France.
Rain fell yesterday at all but our extreme north and north-west coasts.

SEA

Rough off the East of England, and rather rough on several parts of our north and south coast, but moderate to smooth elsewhere.

PROBABLE CHANGES IN SYSTEM NOW PREVALENT

The low pressure system which lay off the south of our Islands yesterday has moved away to the W., but a new fall of the barometer is now reported on our southwest coast, and there is a tendency for an increase of gradient, especially, in the west and southwest.

FORECASTS

For the 24 hours ending at NOON on 5th Nov^r 1888.

DISTRICTS.

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

FORECASTS.

NONE ISSUED.

DISTRICTS.

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

WARNINGS

FORECASTS.

NONE ISSUED.

The S. Cone has been hoisted this morning in districts 8, 9, 10 and part of 7.

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

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

YESTERDAY'S 2 P.M. REPORTS.

	Bar.	Dry.	Wet.	Wind.	Woa.	Sea.		Bar.	Dry.	Wet.	Wind.	Woa.	Sea.
Skudesnaes ...	30.04	3	35	WNW 4	0	2	Holyhead ...	29.68	3	49	E 5	ogm	5
Samburgh Head ...	30.07	40	38	Z 0	0	1	Valencia ...	29.65	52	50	N 1	og	1
Stornoway ...	29.90	49	48	SE 5	0	4	Scilly ...	29.64	54	50	E 3	0	4
Aberdeen ...	29.99	45	41	E 5	0.97	6	Jersey ...	29.80	50	48	SW 2	0	2
Shields ...	29.86	47	46	E 5	2	6	Dungeness ...	29.62	51	49	S 3	0	2
Ardrossan ...	29.85	48	46	NE 4	0	2	London ...	29.64	51	49	ESE 2	om	*
Malin Head ...	29.77	49	47	ESE 5	0	4	Yarmouth ...	29.65	49	48	E 6	og	5
Mullaghmore ...	29.74	39	49	E 5	0.9	3	Rochefort ...	29.81	58	52	WNW 8	0	3
Belmullet ...	29.71	51	49	ESE 3	0	*							

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

The reports for yesterday morning showed that areas of high pressure, 30.0 ins: and upwards, were lying respectively over Scandinavia and the northern part of the North Sea, and over the south of Spain, while a long trough of low readings, 29.6 ins: and less, extended from the southwest of our Islands to South Germany. The wind was E^{ly} over the Baltic, (Denmark, North Germany and the East of our Islands, and SE^{ly} on our north and northwest coast, but in the south of Ireland it was N^{ly}, while in the west of France it was chiefly W^{ly}. Strong winds were reported on our north and East coasts and fresh gales from the Bay of Biscay. The weather was cloudy or overcast generally with rain and mist in many parts of our Islands, as well as over Central Europe. Temperature had fallen in most of the central and southern countries, but risen elsewhere; readings ranged from 60° and upwards over the southern parts of Italy and Austria (the Algerian reports were all wanting) to several degrees below the freezing point over the northern parts of Sweden and Russia. The highest individual readings were 64° at Malta, 63° at Lissia, Brindisi, and Palermo, 60° at Algiers, 59° at Liphorn and 58° at Rome; the lowest were 8° at Archangel, 18° at Haparanda, Uleaborg, Kiepsio and Moscow, 13° at St Petersburg, 22° at Helsingfors and 25° at Memel.

In the course of the day, the low pressure system to the southward of our Islands moved steadily westwards, and the barometer rose over England and France, while the weather improved somewhat. The wind, however, continued to blow freshly or strongly on our north and East coasts.

EXPLANATION OF COLUMNS GIVEN ON PAGE 1.

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

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

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

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

DAILY WEATHER REPORT.

for Monday, 5th November 1888.
 Issued by the Meteorological Office, 116, Victoria Street, London. R. H. SCOTT, Secretary.

		+ YESTERDAY EVENING.					8 A.M. TO DAY.										PAST 24 HOURS.		
STATIONS.		Barometer at 32° F. and Sea Level.	Temp. in Shade.	WIND.		Weather.	BAROMETER.		SHADE TEMP.			WIND.		Weather.	Sea (0 to 5.)	SHADE TEMP.		Amount of Rainfall.	
				Dir.	Force. (0 to 12.)		Reading at 8 a.m. and Sea Level.	Difference from 8 a.m. yesterday.	Dry.	Wet.	Difference from 8 a.m. yesterday.	Dir.	Force. (0 to 12.)			Max.	Min.		
SCANDINAVIA.	Haparanda ...	30.17	30	Z	0	0	30.24	- 03	12	12	- 11	Z	0	0	*	32	?	-	
	Hernösand ...	30.32	31	Z	0	0	30.35	+ 10	29	29	- 3	Z	0	6c	*	41	23	-	
	Stockholm ...	30.32	27	Z	0	0	30.38	+ 23	23	21	- 7	Z	0	6	*	36	?	-	
	Visby ...	30.23	35	E	4	6	30.30	+ 27	30	29	- 5	E	4	6	*	39	27	-	
	Bodö ...	30.20	39	SW	4	7	30.26	+ 13	38	36	+ 1	SW	4	C	2	39	34	0.16	
	Christiansund...	30.25	39	SSW	2	0	30.31	+ 19	37	35	+ 4	ESE	3	0	3	39	?	-	
	Skudesnaes ...	30.26	39	ESE	4	6	30.34	+ 15	36	33	- 1	E	4	0	2	43	36	-	
	Christiania Fjord (Færdar)	30.30	39	NE	4	0	30.36	+ 17	38	33	+ 2	SSE	2	0	1	39	?	-	
	Skagen (The Seaw)	30.23	37	SE	1	6	30.35	+ 17	37	32	- 1	SE	1	0	1	39	36	-	
	Fanö ...	30.18	35	E	4	6	30.26	+ 22	34	33	- 2	ESE	4	C	*	41	34	-	
BRITISH ISLANDS.	Sumburgh Head	30.09	41	SE	2	0	30.16	+ 09	42	40	+ 1	SE	3	r	4	43	39	0.02	
	Sornoway ...	29.86	45	SE	5	6	29.95	+ 08	43	42	+ 1	SE	5	6c	4	48	40	-	
	Wick ...	29.98	44	S	4	0	30.07	+ 06	46	44	+ 2	S	6	om	5	46	41	0.03	
	Nairn ...	29.94	42	ESE	2	6c	30.01	+ 04	41	39	+ 1	ESE	2	C	1	47	38	-	
	Aberdeen...	30.02	43	SE	6	ogpu	30.08	+ 05	45	41	+ 2	SE	5	ogpu	6	46	42	0.10	
	Leith ...	29.89	46	ESE	4	0	29.97	+ 04	45	42	0	ESE	5	0	*	46	43	-	
	Shields ...	29.88	47	E	5	0	29.95	+ 03	47	45	0	E	6	0	6	48	44	-	
	Spurn Head ...	29.82	48	E	7	0	29.85	00	48	48	+ 1	ESE	7	r	6	48	45	0.04	
	York ...	29.85	45	E	3	0	29.87	00	46	45	0	E	3	r	*	48	43	0.09	
	Loughborough	29.78	47	SE	3	6c	29.81	+ 02	49	43	+ 2	ESE	2	0	*	53	45	0.15	
GERMANY.	Ardrossan ...	29.81	45	NE	5	om	29.90	+ 04	45	42	0	NE	4	om	2	48	42	-	
	Malin Head ...	29.72	47	SE	7	or	29.83	+ 06	47	45	- 2	ESE	6	or	4	49	45	0.02	
	Mallaghmore ...	29.62	44	E	6	omg	29.70	+ 03	49	47	- 1	E	6	ogm	4	50	47	0.11	
	Belmullet ...	29.58	49	NE	6	0	29.70	+ 06	49	48	- 1	E	5	0	*	52	47	0.07	
	Donaghadee ...	29.73	49	ESE	5	C	29.80	+ 02	48	47	0	E	6	0	4	49	47	0.30	
	Barrow-in-Furness	29.74	45	ESE	6	0	29.88	+ 10	46	44	- 1	NE	6	C	*	48	44	0.21	
	Liverpool (Bidston)	29.70	48	E	5	0	29.78	+ 01	47	45	0	E	3	0	3	50	45	0.31	
	Holyhead ...	29.64	50	ESE	5	oggm	29.72	+ 01	47	46	- 2	E	4	6c	4	52	47	0.12	
	Parsonstown ...	29.53	47	NE	1	0	29.64	00	45	43	- 1	E	1	6c	*	52	43	0.05	
	Valencia ...	29.44	51	NE	3	op	29.50	- 02	50	49	- 2	NE	3	0	4	54	44	0.07	
FRANCE & NETHERLANDS.	Roche's Point...	29.44	52	SE	4	C	29.52	- 03	51	50	+ 1	SE	5	cp	4	55	48	0.60	
	Pembroke ...	29.48	50	SE	6	r	29.63	+ 02	50	49	+ 1	SE	4	C	4	53	48	0.20	
	Scilly ...	29.48	53	WSE	6	cp	29.50	- 04	52	49	- 1	ESE	5	0	5	55	50	0.14	
	Prawle Point ...	29.55	52	SW	4	C	29.65	+ 02	52	51	0	SSE	5	r	4	53	46	0.35	
	Jersey ...	29.62	54	SSW	4	C	29.72	00	52	51	0	ESE	6	6cm	5	55	51	0.39	
	Hurst Castle ...	29.63	51	ESE	5	r	29.75	+ 02	54	52	+ 2	ESE	4	6c	3	55	51	0.49	
	Dungeness ...	29.77	52	SE	6	CW	29.81	+ 01	54	52	+ 2	SSW	3	6c	3	55	51	0.11	
	London ...	29.74	50	ESE	3	0	29.81	+ 02	47	47	+ 2	Z	0	65w	*	55	45	0.07	
	Oxford ...	29.69	49	E	3	r	29.81	+ 04	46	46	0	ESE	1	65	*	53	46	0.10	
	Cambridge ...	29.79	48	E	1	C	29.84	+ 02	50	50	+ 2	E	1	0	*	57	46	-	
PENIN- SULA.	Yarmouth ...	29.86	48	ESE	6	og	29.87	+ 01	48	47	+ 1	ESE	6	ogq	6	49	46	0.12	
	Cuxhaven ...	30.13	39	ESE	4	C	30.21	+ 23	41	40	0	ESE	4	C	*	43	39	-	
	Berlin ...	30.10	39	NE	3	0	30.21	+ 28	33	31	- 4	NE	4	6	*	43	32	-	
	Wiesbaden ...	*	*	*	*	*	30.07	+ 16	40	37	- 5	NE	4	0	*	46	39	-	
	Munich ...	30.01	41	W	4	r	30.06	+ 17	33	32	- 8	NE	4	0	*	43	32	0.39	
	The Helder ...	30.00	41	ESE	4	C	30.04	+ 09	38	37	- 2	ESE	5	0	3	43	37	-	
	Brussels ...	*	*	*	*	*	29.93	+ 02	44	43	- 1	ESE	3	r	*	53	42	0.16	
	Cape Gris Nez...	29.76	45	S	5	6	29.83	+ 04	48	48	+ 5	SE	3	C	1	54	43	-	
	Paris ...	29.82	50	SSE	4	r	29.87	- 04	50	49	+ 13	SW	1	0	*	55	?	0.04	
	Brest ...	29.68	55	W	7	0	29.58	- 09	55	52	0	S	7	r	6	66	?	0.63	
FRANCE & NETHERLANDS.	Lorient ...	29.69	55	W	7	6c	29.63	- 03	55	52	+ 3	S	7	r	5	57	52	0.32	
	Rochefort ...	29.85	57	WSW	7	r	29.82	- 03	50	50	- 7	SSE	7	0	2	61	46	0.24	
	Belfort ...	29.97	39	W	1	6	29.97	- 03	40	40	- 5	W	1	r	*	53	?	0.08	
	Lyons ...	29.97	49	S	1	C	29.94	- 11	45	44	+ 7	S	1	C	*	57	?	0.04	
	Nice ...	29.87	53	SSW	3	6	29.93	+ 11	48	45	- 2	NE	5	C	1	64	45	-	
	Perpignan ...	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	-
	Biarritz ...	29.90	57	NW	7	0	29.75	- 18	53	51	- 6	SE	1	0	3	66	50	0.12	
PENIN- SULA.	Corunna ...	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	-	
	Lisbon ...	30.02	60	WNW	3	0	29.95	- 14	59	55	0	WSW	5	6c	5	66	57	0.51	

For Explanation of Columns, see p. 4.

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

WEATHER CHARTS

for 8 a.m. on Monday, 5th November.

1888.

BAROMETER, WIND & SEA.

(Explanation of Map)

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

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

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

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

○ = dead calm.

Sea Disturbance — where considerable is shown thus.

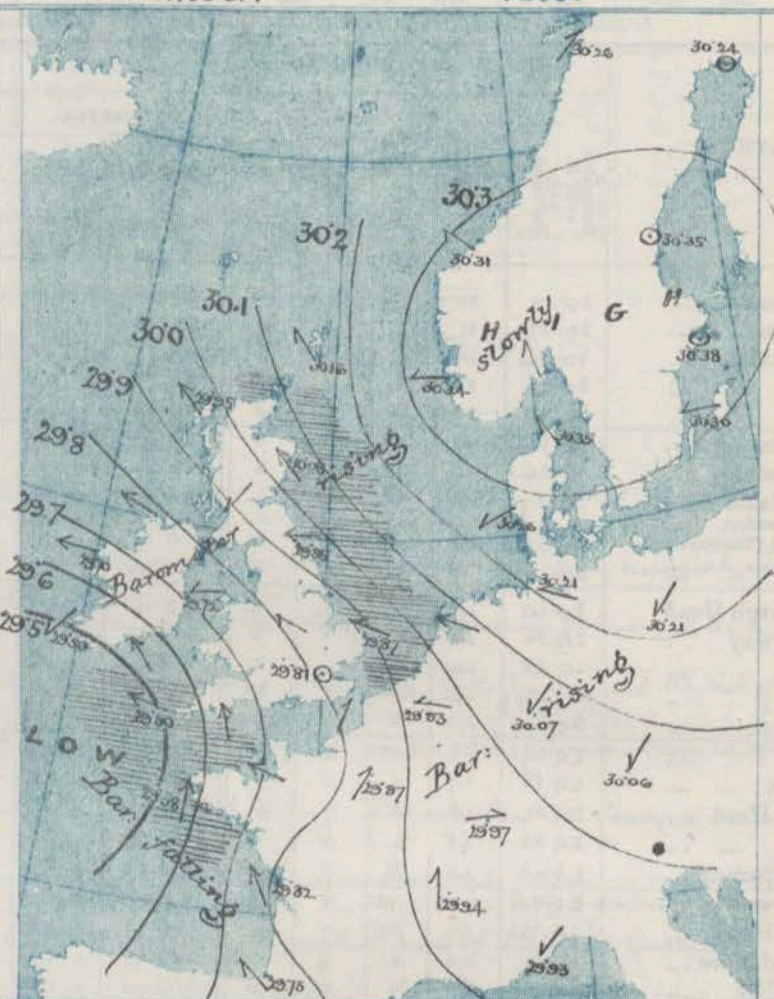
■ = Rough ■ = High

MEAN HEIGHT of the BAROMETER

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

During the 15 Years 1871 — 1885.

STATIONS.	MEAN READINGS.
	in.
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	29.898
Dover	29.893
LONDON	29.897
Oxford	29.893
Cambridge	29.885
Yarmouth	29.863



GENERAL SITUATION AT 8 A.M.

PRESSURE

Highest, 30.2 in: to about 30.4 in: in an anticyclone lying over Scandinavia, North Germany, and the western parts of the Baltic.
 Lowest, 29.5 in: and less, in a depression lying off the south of Ireland.
 Gradients rather steep over the British Isles and North Sea.
 Barometer falling in Spain and the southwest of France, rising elsewhere.

TEMPERATURE

Highest, 55° at Lisbon, 55° at Brest, 54° at Ouessant, 50° at Valence.
 Lowest, 12° at Haparanda, 23° at Stockholm, 33° at Berlin and Munich, and 38° at Helder.
 It is decreasing over Germany and at landish stations, but has risen over France.

WIND

Light and variable over Norway, generally, calm on the Swedish coast.
 Strong, from E. and SE. on our north-west, north, and east coasts.
 Moderate to fresh from SE. or E. in the southwest and south of our Islands. Strong from the S.W. over the Bay of Biscay.

WEATHER

Fine in Germany — fair, but foggy over our southeastern countries.
 Cloudy and very unsettled elsewhere, with rain in several places.
 Rain fell yesterday except in the northeast; fall was greatest on our southwestern coast.

SEA

Rough in the north and east, and also over the Bay of Biscay, generally moderate elsewhere.

PROBABLE CHANGES IN SYSTEM NOW PREVALENT

It seems probable that the S.E. wind will increase in force on our north and east coasts, but nothing beyond moderate or fresh breezes are anticipated in the southwest and south.

FORECASTS

for the 24 hours ending at NOON on 6th November 1888.

DISTRICTS.

FORECASTS.

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

SE^{ly} winds, strong; squally, unsettled, some rain.
 E^{ly} winds, strong; squally, rainy.
 E^{ly} winds, moderate; colder, changeable, rain at times.

DISTRICTS.

FORECASTS.

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

Same as No 3
 Same as No 5
 E^{ly} winds, fresh to moderate, rain at times. Colder.

WARNINGS

The South Cone has been lowered this morning in districts 5 to 10, but is still flying in districts 0 to 3.

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

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

YESTERDAY'S 2 P.M. REPORTS.

	Bar.	Dry.	Wet.	Wind.	Wea.	Sea.		Bar.	Dry.	Wet.	Wind.	Wea.	Sea.
Skudesnaes ...	30.13	43	56	E.N.E. 3	b	2	Holyhead ...	29.66	50	47	E.N.E. 4	c	4
Sumburgh Head							Valencia ...						
Stornoway ...	29.88	48	46	S.E. 5	b	4	Scilly ...						
Aberdeen ...							Jersey ...	29.63	53	52	S.E. 6	r	5
Shields ...							Dungeness ...	29.79	52	50	S.S.E. 5	c	4
Ardrossan ...							London ...						
Malin Head ...	29.70	48	46	S.E. 7	0	4	Yarmouth ...						
Mullaghmore ...							Rocheport ...	29.84	58	57	S.W. 5	r	2
Belmullet ...	29.60	51	49	E.S.E. 3	0	*							

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

The reports for yesterday morning showed that pressure was high, 30.2 ins. and upwards, over Finland and the north of Sweden, and also over Algeria. A depression with readings below 29.5 ins. was, however, lying off the southwest coasts of the British Islands, while another disturbance with similar readings existed over Hungary and Galicia. Moderate E. or N.E. breezes were reported over the Baltic, Russia, Denmark and North Germany, and strong winds from E. or S.E. over the greater part of the United Kingdom. In France and Spain, however, the wind was S.W. or S.W. by W., while in Italy and South Austria it was chiefly W. The weather was fair in Spain, Italy, Algeria and the southern parts of our Islands and France, but cloudy or overcast elsewhere, with rain on our northwest coasts and over many parts of Central Europe. Temperature had changed somewhat irregularly, but the general tendency was for a slight decrease; readings ranged from 60° and upwards in several parts of Algeria, Spain and South Italy to 32° and less, over Sweden and Russia, and to zero over central Finland. The highest individual readings were 65° at Malta, 64° at Honours and Algiers, 63° at Bilbao and Brindisi, 61° at Palermo, and 60° at Lasina and Sanguinaires; the lowest were 0° zero at Ulesborg, 15° at Moscow, 16° at Archangel, 17° at Kuopio, 23° at Haparanda and St. Petersburg, 26° at Helsingfors, and 27° at Riga. In the course of the day the depression off our southwest coasts grew somewhat deeper, and a further increase of wind from the S.E. occurred on our north and east coasts. In the South of England rain again set in during the latter part of the day.

SUMMARY OF CHANGES IN THE WEATHER OVER THE BRITISH ISLANDS AND THEIR NEIGHBOURHOOD FROM THE 28TH OCTOBER TO THE 3RD NOVEMBER 1888

The weather of this period was exceedingly unsettled, with heavy rain in nearly all parts of the Kingdom, and occasional gales on all but our southern coasts. Thunder and lightning were observed in the north of Scotland early in the week, and lightning was seen in the south of England on the nights of the 1st and 2nd November. During the first two days an anticyclone lay over the southern parts of Germany and France, while a large and deep depression advanced from the Atlantic to the north of Scandinavia, and then travelled away eastwards to Northern Russia. As the disturbance advanced, fresh strong S. gales were experienced on many parts of our west and north coasts, with heavy rain in the west of Ireland; and on the 29th and 30th October when a shallow secondary disturbance moved eastwards over the Channel to the Netherlands and Germany, rain and fog set in over England. On the night of the 31st October the barometer rose decidedly in the north, while it fell steadily elsewhere, and by the following morning a large area of low pressure with several distinct minima lay directly over our Islands and the North Sea, occasioning unsettled weather generally, with fog over England. In the south and east the wind was light and variable, but in the north it blew freshly from the N.E.; and in the course of the ensuing 24 hours when the low pressure system moved southwards, N.E. winds spread over the entire Kingdom. In the west, north and east they blew with the force of a moderate to fresh gale. By the morning of the 3rd the low pressure area in the south had assumed the form of a long band or trough, which extended from our southwest coasts to south Germany, and rainy, foggy weather still prevailed generally. In the course of the day, however, the trough moved steadily westward to our southwest coasts, and at the close of the period some improvement in the weather was setting in over England. At the beginning of the week temperature was exceedingly high for the time of year. On the early morning of the 28th the minimum readings were very little below 60° in any part of the Kingdom, and in the course of the day the thermometer rose to between 65° and 67° over England. On the 29th, however, the weather became cooler, and during the remainder of the week the thermometer was very little above its average level.

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.

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DAILY WEATHER REPORT.

for *Tuesday, 6th November* 1888.
 Issued by the Meteorological Office, 116, Victoria Street, London. R. H. SCOTT, Secretary.

STATIONS.	† YESTERDAY EVENING.					8 A.M. TO DAY.										LAST 24 HOURS.		
	Barometer at 32° F. and Sea Level.	Temp. in Shade.	WIND.		Weather.	BAROMETER.		SHADE TEMP.			WIND.		Weather.	Sea (0 to 9.)	Shade Temp.	Max.	Min.	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.)						
SCANDINAVIA.	Haparanda ..	30.34	12	NW	2	0	30.20	- 0.14	29	28	+ 17	SSW	2	0	*	3	3	
	Hernösand ...	30.42	30	"	0	0	30.41	+ 0.06	25	24	- 1	"	2	0	*	37	25	
	Stockholm ...	30.43	32	"	0	0	30.44	+ 0.06	31	29	+ 8	20	0	0	*	36	21	
	Wisby ...	30.34	35	W	4	0	30.42	+ 0.12	32	32	+ 2	S	4	0	*	37	?	
	Bodö ...	30.28	38	SW	4	0	30.18	- 0.08	41	39	+ 3	hsw	6	?	3	?	36	
	Christiansund...	30.38	38	SE	2	0	30.39	+ 0.08	38	36	+ 1	SE	1	6	1	39	36	
	Skudesnaes ...	30.42	40	SE	4	0	30.43	+ 0.09	39	35	+ 3	ESE	4	0	3	41	?	
	Christiania Fjord (Færder)	30.43	38	SE	2	0	30.43	+ 0.07	37	33	- 1	SEW	2	0	1	?	?	
	Skagen (The Screw)	30.41	37	ESE	1	6	30.44	+ 0.09	36	32	- 1	SE	1	0	1	37	36	
	Fanö ...	30.34	35	E	4	0	30.35	+ 0.09	35	33	+ 1	E	4	0	*	39	34	
BRITISH ISLANDS.	Sumburgh Head	30.21	44	ESE	3	0	30.24	+ 0.08	43	40	+ 1	ESE	3	0	4	46	41	0.03
	Stornoway ...	30.02	40	"	0	6	30.06	+ 0.11	38	38	- 5	"	0	6	2	50	32	
	Wick ...	30.15	46	S	3	0	30.19	+ 0.12	45	43	- 1	S	5	0	4	48	42	0.02
	Nairn ...	30.07	40	ESE	2	6	30.13	+ 0.12	38	36	- 3	ESE	1	6	1	50	32	
	Aberdeen...	30.17	45	SE	5	ggp	30.21	+ 0.13	44	40	- 1	SE	5	ggg	6	47	44	0.01
	Leith ...	30.08	45	ESE	4	0	30.12	+ 0.15	43	38	- 2	ESE	5	0	*	47	41	
	Shields ...	30.05	47	ESE	7	0	30.13	+ 0.18	44	40	- 3	E	6	0	6	48	39	
	Spurn Head ...	29.99	47	ESE	8	0	30.01	+ 0.16	43	40	- 5	E	8	bc	7	48	41	0.01
	York ...	30.00	49	E	3	0	30.07	+ 0.20	39	36	- 7	E	2	6	*	49	37	0.03
	Loughborough	29.91	47	ESE	4	0	29.98	+ 0.17	38	35	- 11	E	4	0	*	51	37	
BRITISH ISLANDS.	Ardrossan ...	29.99	47	NE	2	om	30.08	+ 0.18	41	40	- 4	NE	1	bm	1	48	39	
	Malin Head ...	29.92	50	ESE	6	bc	29.96	+ 0.13	43	40	- 4	SE	5	0	4	50	43	
	Mullaghmore ...	29.84	49	E	5	cm	29.93	+ 0.23	45	42	- 4	E	5	0	3	50	45	
	Belmullet ...	29.83	48	E	4	c	29.89	+ 0.19	47	45	- 2	ESE	5	0	*	54	46	
	Donaghadee ...	29.92	51	SE	4	c	30.00	+ 0.20	45	44	- 3	E	5	0	3	52	44	0.01
	Barrow-in-Furness	29.94	47	ESE	5	0	30.03	+ 0.15	40	37	- 6	NE	5	0	*	50	40	
	Liverpool (Bidston)	29.90	48	"	4	0	29.96	+ 0.18	39	36	- 8	E	6	0	4	54	39	
	Holyhead ...	29.83	50	E	5	bc	29.91	+ 0.19	41	39	- 6	E	6	bcq	6	54	41	
	Parsonstown ...	29.76	50	NE	1	0	29.85	+ 0.21	45	43	0	ESE	3	0	*	55	44	
	Valencia ...	29.64	51	NE	4	0	29.73	+ 0.23	51	48	+ 1	NE	3	cm	4	56	48	0.07
BRITISH ISLANDS.	Roche's Point...	29.62	54	ESE	5	c	29.72	+ 0.20	50	47	- 1	E	6	c	5	55	48	0.65
	Pembroke ...	29.67	52	ESE	6	0	29.75	+ 0.12	44	43	- 6	E	4	og	3	53	44	0.15
	Scilly ...	29.46	55	E	7	0	29.56	+ 0.06	54	52	+ 2	ESE	5	op	5	55	47	0.38
	Prawle Point ...	29.63	53	E	7	c	29.65	0.00	49	49	- 3	E	8	r	6	54	47	0.45
	Jersey ...	29.65	54	ESE	5	cg	29.63	- 0.09	50	50	- 2	E	5	om	4	55	50	0.40
	Hurst Castle ...	29.76	51	E	6	c	29.74	- 0.01	45	45	- 9	E	8	ma	5	56	44	
	Dungeness ...	29.84	52	S	4	c	29.82	+ 0.01	39	38	- 15	ESE	6	0	*	55	39	
	London ...	29.87	50	E	3	ov	29.86	+ 0.05	41	39	- 6	ESE	4	0	*	55	41	
	Oxford ...	29.86	48	E	3	0	29.89	+ 0.08	39	37	- 7	ESE	5	0	*	54	39	
	Cambridge ...	29.93	48	E	2	0	29.93	+ 0.09	38	35	- 12	E	3	bc	*	52	36	
GERMANY.	Yarmouth ...	29.95	47	ESE	7	og	29.99	+ 0.12	40	38	- 8	E	8	cg	6	48	37	
	Cuxhaven ...	30.24	39	"	5	c	30.29	+ 0.08	32	31	- 9	ESE	4	6	*	41	30	
	Berlin ...	30.28	32	E	3	6	30.34	+ 0.13	23	22	- 10	E	4	6	*	39	25	
	Wiesbaden ...	*	*	*	*	*	30.09	+ 0.02	31	27	- 9	NE	3	6	*	48	28	
	Munich ...	30.04	31	NE	5	0	30.01	- 0.05	28	27	- 5	NE	6	0	*	36	?	
	The Helder ...	30.13	37	E	5	6	30.13	+ 0.09	32	29	- 6	E	5	6	4	41	32	
	Brussels ...	*	*	*	*	*	29.91	- 0.02	31	29	- 13	E	4	6	*	45	30	0.20
	Cape Gris Nez...	29.85	48	E	4	0	29.81	- 0.02	32	31	- 16	E	7	bc	5	54	32	
	Paris ...	29.82	50	E	4	0	29.75	- 0.12	41	38	- 9	ESE	3	0	*	?	40	
	Brest ...	29.51	55	ESE	7	0	29.57	- 0.01	52	50	- 3	E	5	bc	5	55	39	0.91
FRANCE & NETHERLANDS.	Lorient ...	29.53	54	ESE	4	0	29.54	- 0.09	52	52	- 3	ESE	3	c	5	59	50	0.67
	Rochefort ...	29.67	56	S	5	0	29.67	- 0.15	52	51	+ 2	S	7	0	3	61	46	0.24
	Belfort ...	29.95	37	W	1	0	29.85	- 0.12	37	36	- 3	NE	4	0	*	45	34	
	Lyons ...	29.80	52	ESE	3	c	29.74	- 0.20	44	44	- 1	N	3	0	*	60	48	
	Nice ...	29.88	54	SW	3	c	29.82	- 0.11	50	50	+ 2	NE	8	7	5	63	48	0.59
	Perpignan ...	29.73	51	NE	3	6	29.65	- 0.25	50	49	0	20	0	0	*	58	45	
	Biarritz ...	29.66	59	SW	7	0	29.66	- 0.09	51	46	- 2	SEW	4	6	5	62	48	0.12
	Corunna ...	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	
	Lisbon ...	29.86	58	NW	3	6	29.89	- 0.06	55	54	- 4	20	0	6	3	64	54	0.24
PENINSULA.																		

For Explanation of Columns, see p. 4. Erratum.—In the Report for Nov. 4th the amount of Rainfall for London should read "0.03" † Received too late for insertion in Charts on p. 2

WEATHER CHARTS

for 8 a.m. on Tuesday, 6th November, 1888.

BAROMETER, WIND & SEA.

(Explanation of Map)

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

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

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

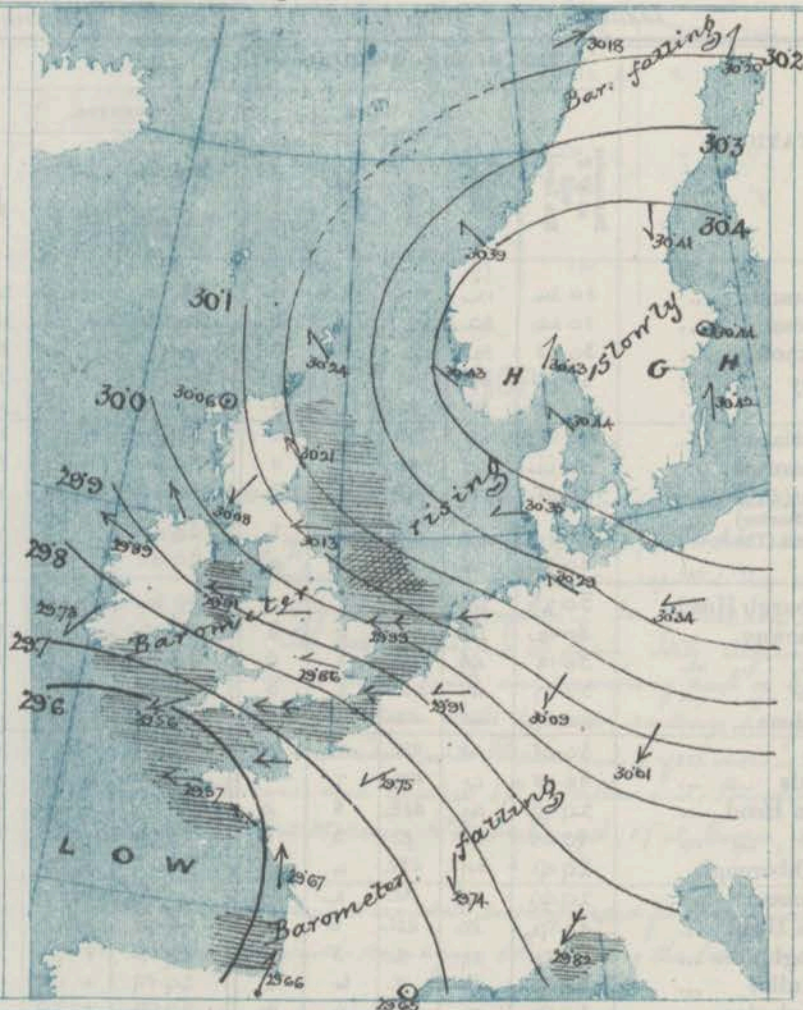
Sea Disturbance — where considerable, is shown thus.

■ = Rough ■ = High

MEAN HEIGHT of the BAROMETER

at 8 a.m. for the month of 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	29.898
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.

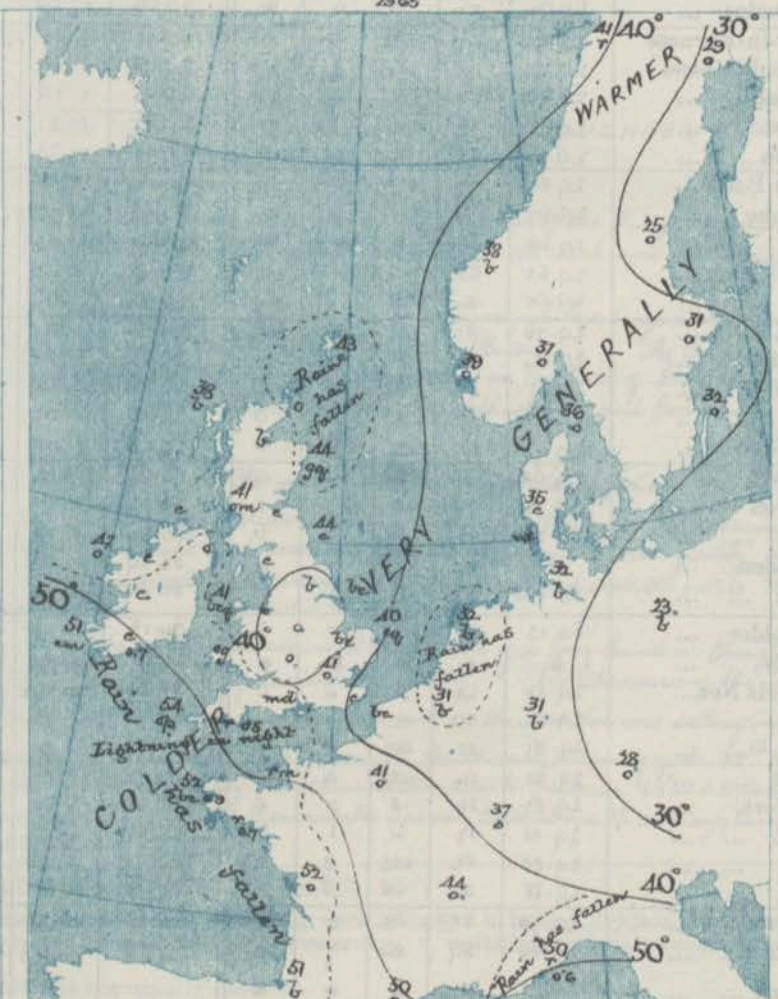
Rainfall — A dotted line separates the districts in which rain has fallen from those where there has been none. Falls of 0.5 in. or more, are quoted in figures.

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	40.3	39.0	2.21
Loughborough	48.0	36.4	40.2	38.9	2.30
Ardrossan	47.7	38.9	42.6	40.8	3.02
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	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	43.7	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	4.24
Hurst Castle	50.5	40.3	44.6	43.6	2.98
Dover	49.1	40.7	44.0	42.4	3.66
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 1866—85.



GENERAL SITUATION AT 8 A.M.

PRESSURE

Highest, 30.30 in. to 30.45 in. a large anticyclone, lying over Scandinavia, the Baltic and North Germany.
Lowest, 29.6 in. and less, in a depression lying to the westward of Ireland.
Gradients rather steep over our islands and the Channel, moderate over France, slight over Scandinavia.
Barometer falling slightly in far south, rising a little in our islands; falling over Lapland.

TEMPERATURE

Highest, 55° at London, 54° at Kelly, 52° at Bristol, Lorient, and Rochefort, 51° at Valencia, 50° at Stockholm and Jirany.
Lowest, 23° at Berlin, 25° at Harbin, 29° at Haparanda, 31° at Stockholm, 38° at Loughborough, 39° at York, Oxford and (Dunsmuir).
It has fallen fast in the southeastern part of our area, risen fast in Lapland.

WIND

SW^{ly} and S^{ly} in Lapland — light and variable over Sweden and Norway.
Moderate SE^{ly} in Scotland — fresh E^{ly} in Ireland.
Fresh E^{ly} gales prevail on our east coast and at some Channel stations.

WEATHER

Fine and light over Germany, Belgium, and on our extreme southeast coasts.
Cloudy and squally over the United Kingdom, with rain in the southwest.
Rain has fallen generally in the southeast, locally in the north. Lightning has been seen at Howland Point and Kelly.

SEA

High in the northeast, rough in the east and south, rather rough over the Bay of Biscay, moderate off our northwest and extreme western coasts.

PROBABLE CHANGES IN SYSTEM NOW PREVALENT

Very little change in the above conditions is probable.

FORECASTS

for the 24 hours ending at NOON on 7th November. 1888.

DISTRICTS.

FORECASTS.

0	SCOTLAND NORTH	SE ^{ly} and S ^{ly} winds, falling light; fair generally.
1	SCOTLAND EAST	
2	ENGLAND N.E.	Same as No 5.
3	ENGLAND EAST	
4	MIDLAND COUNTIES	E ^{ly} winds, strong; cloudy, some showers.
5	ENGLAND SOUTH	E ^{ly} gales, moderating; squally, cold, perhaps some cold showers.

DISTRICTS.

FORECASTS.

6	SCOTLAND WEST	SE ^{ly} winds, moderate; fair.
7	ENGLAND N.W.	
8	ENGLAND S.W.	E ^{ly} winds, strong; squally, cold showers.
9	IRELAND NORTH	E ^{ly} and SE ^{ly} winds, strong; cloudy, local showers.
10	IRELAND SOUTH	

WARNINGS

The South Cone is still up in districts 2 and 3 but has been lowered in 0 and 1 this morning.

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

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

YESTERDAY'S 2 P.M. REPORTS.

	Bar.	Dry.	Wet.	Wind.	Wes.	Sea.		Bar.	Dry.	Wet.	Wind.	Wes.	Sea.
Skudesnaes ...	30.38	44	36	SE 4	0	2	Holyhead ...	29.78	52	50	E 4	c	4
Sumburgh Head	30.19	45	42	SE 8	60	4	Valencia ...	29.60	54	51	E 6	bcp	4
Stornoway ...	29.96	50	47	SE 2	6	3	Scilly ...	29.45	53	53	E 7	r	6
Aberdeen ...	30.12	46	42	SE 5	0 app	6	Jersey ...	29.68	55	52	SE 5	bc	4
Shields ...	30.00	47	45	ESE 7	0	6	Dungeness ...	29.84	52	50	SE 4	c	3
Ardrossan ...	29.94	46	46	NE 4	0	2	London ...	29.84	54	52	E 2	c	*
Malin Head ...	29.88	47	46	ESE 6	0	4	Yarmouth ...	29.91	47	45	ESE 7	og	5
Mullaghmore ...	29.80	49	47	E 6	0 gw	4	Rochefort ...	29.71	57	55	SSE 7	0	2
Belmullet ...	29.77	53	50	E 4	6	*							

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

The reports for yesterday morning showed that a large anticyclone, with readings above 30.3 ins: was lying over Scandinavia and Northern Russia, while another high pressure system, with readings above 30.1 ins: existed over Central Algeria. The lowest reading, 29.5 ins: and less, was found in a depression lying to the southward of the British Isles, but another depression, with readings below 29.7 ins: was reported over the south of Russia. The wind was moderate from E. or NE. over Russia, North Germany, Denmark, and the Baltic, and strong from the SE^{wd} over the greater part of the British Isles. In Spain, however, it was SW^{ly} and in France S^{ly}, while in Austria light NW^{ly} breezes were reported. The weather was fine in Scandinavia, Germany, Italy, and Algeria, but cloudy or overcast elsewhere, with rain in many parts of France and the Netherlands, and snow in Austria and the south of Russia. Temperature had changed very little in our Islands and Norway, but fallen elsewhere; readings ranged from 60° and upwards at several of the Spanish, Italian and Algerian stations to several degrees below the freezing point over Russia, Lapland, and the Baltic. The highest individual readings were 64° at Barcelona and Algiers, 63° at Malta and Sfax, 61° at Cagliari and Bilbao, Brindisi, Sanquhar and La Felle; the lowest were 10° at Helsingfors and Moscow, 12° at Napharanda, 15° at Archangel, 17° at Kuopio and Riga, 18° at Hangö and Memel, 20° at Uleaborg, and 22° at St Petersburg, Warsaw, and Charkov.

In the course of the day, the depression to the southward of our Islands moved slowly in an east-south-easterly direction towards France and the wind increased to a moderate gale from E. or SE. on many parts of our east and south coast. No important change was observed, however, in the weather.

EXPLANATION OF COLUMNS GIVEN ON PAGE 1.

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

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

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

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

DAILY WEATHER REPORT.

for Wednesday 7th Nov^r 1888.
 Issued by the Meteorological Office, 116, Victoria Street, London. R. H. SCOTT, Secretary.

		+ YESTERDAY EVENING.					8 A.M. TO DAY.										PAST 24 HOURS.		
STATIONS.		Barometer at 32° F. and Sea Level.	Temp. in Shade.	WIND.		Weather.	BAROMETER.		SHADE TEMP.			WIND.		Weather.	Sea. (0 to 9.)	SHADE TEMP.			
				Dir.	Force. (0 to 12.)		Reading at 32° F. and Sea Level.	Difference from 8 a.m. yesterday.	Dry.	Wet.	Difference from 8 a.m. yesterday.	Dir.	Force. (0 to 12.)			Max.	Min.	Amount of Rainfall.	
SCANDINAVIA.	Haparanda ..	29.92	32	S	4	0	29.97	- .23	28	25	- 1	NNW	4	c	*	24	?	—	
	Hernösand ...	30.28	24	L	0	0	30.10	- .31	27	35	+ 12	WNW	2	c	*	?	19	—	
	Stockholm ...	29.93	32	L	0	0	30.15	- .24	27	25	- 4	WNW	2	c	*	34	27	—	
	Wisby ...	30.35	32	SH	4	0	30.22	- .20	30	29	- 2	S	2	o	*	41	30	—	
	Bodö ...	30.08	42	WSTN	8	7	30.23	+ .05	35	33	- 6	N	2	o	1	43	34	0.12	
	Christiansund...	30.38	40	SE	1	0	30.31	- .08	39	36	+ 1	S	1	c	2	39	36	—	
	Skudesnaes ...	30.39	37	E	2	0	30.32	- .11	36	32	- 3	E	2	o	3	39	36	—	
	Christiania Fjord (Færd)	30.39	35	N	4	0	30.29	- .14	31	30	- 5	N	4	c	1	?	25	—	
	Skagen (The Scaw)	30.37	36	SSE	1	0	30.24	- .20	36	33	0	L	0	o	0	37	34	—	
	Fanö ...	30.28	36	E	6	0	30.22	- .15	35	33	0	ENE	5	o	*	39	34	—	
BRITISH ISLANDS.	Sumburgh Head	30.23	42	SSE	3	0	30.21	- .03	40	37	- 3	SE	3	c	4	45	39	0.01	
	Stornoway ..	30.00	44	SE	4	0	29.96	- .10	42	41	+ 4	SE	6	bc	5	42	36	—	
	Wick ...	30.15	45	S	5	0	30.13	- .06	43	41	- 2	SSE	6	ou	4	46	40	0.01	
	Nairn ...	30.10	40	E	2	0	30.06	- .07	42	40	+ 4	E	2	c	1	46	34	—	
	Aberdeen...	30.18	42	SE	5	agg	30.13	- .08	43	39	- 1	SE	5	agg	6	45	41	0.02	
	Leith ...	30.09	45	ESE	4	c	30.03	- .09	43	38	0	ESE	5	c	*	45	41	—	
	Shields ...	30.07	43	ESE	7	c	30.01	- .12	44	40	0	ESE	7	o	6	46	34	—	
	Spurn Head ...	29.97	43	E	7	0	29.89	- .12	42	40	- 1	E	8	c	6	44	40	—	
	York ...	30.01	40	E	3	0	29.95	- .12	41	38	+ 2	E	2	c	*	46	37	—	
	Loughborough	29.92	37	ENE	3	0	29.88	- .10	35	33	- 3	E	4	agg	*	46	34	—	
GERMANY.	Ardrossan ...	30.01	39	NE	3	bm	29.97	- .11	40	39	- 1	NE	3	bc	2	46	36	—	
	Malin Head ...	29.92	44	SE	6	bm	29.84	- .09	42	39	- 1	SE	5	bc	5	45	34	—	
	Mullaghmore ...	29.82	42	E	7	bc	29.77	- .16	40	38	- 5	ESE	6	bc	4	46	38	—	
	Belmullet ...	29.80	44	ESE	6	c	29.72	- .17	40	37	- 7	SE	6	bc	*	47	39	—	
	Donaghadee ...	29.93	46	ESE	5	bc	29.90	- .10	44	43	- 1	ESE	4	c	3	47	43	—	
	Barrow-in-Furness	29.95	40	E	5	bc	29.83	- .10	41	38	+ 1	E	8	o	*	45	38	—	
	Liverpool (Bidston)	29.90	38	E	5	bc	29.85	- .11	36	33	- 3	E	6	bc	3	43	35	—	
	Holyhead ...	29.89	41	E	8	bc	29.80	- .11	38	35	- 3	E	6	bc	5	43	37	—	
	Parsonstown ...	29.77	43	SE	1	0	29.77	- .13	38	35	- 7	NE	1	o	*	45	38	—	
	Valencia ...	29.70	48	ENE	4	0	29.56	- .17	46	44	- 5	E	5	agg	5	52	45	—	
FRANCE & NETHERLANDS.	Roche's Point...	29.70	48	ESE	5	0	29.60	- .12	45	43	- 5	ESE	7	c	5	50	44	0.16	
	Pembroke ...	29.72	41	E	4	c	29.65	- .07	38	38	- 6	E	6	agg	4	44	37	—	
	Scilly ...	29.55	50	ENE	7	agg	29.53	- .03	48	46	- 6	ESE	7	o	6	54	47	0.26	
	Prawle Point ...	29.66	44	E	7	r	29.64	- .01	38	38	- 11	NE	7	agg	6	49	36	0.54	
	Jersey ...	29.61	46	E	4	om	29.59	- .04	43	42	- 7	E	5	om	4	57	42	0.15	
	Hurst Castle ...	29.72	43	ENE	8	c	29.69	- .05	37	36	- 8	E	8	rs	5	47	36	0.02	
	Dungeness ...	29.75	41	ESE	7	c	29.75	- .07	34	32	- 5	ESE	6	c	5	42	32	—	
	London ...	29.82	40	E	3	c	29.78	- .08	35	32	- 6	E	3	o	*	41	34	—	
	Oxford ...	29.83	37	E	5	0	29.79	- .10	36	34	- 3	ENE	5	ou	*	39	34	—	
	Cambridge ...	29.88	38	E	2	bc	29.84	- .09	37	36	- 1	E	3	o	*	45	32	—	
PENIN- SULA.	Yarmouth ...	29.93	40	E	8	bc	29.88	- .11	38	37	- 2	E	8	c	6	42	36	—	
	Cuxhaven ...	30.20	36	ESE	6	c	30.14	- .15	31	29	- 1	E	5	c	*	36	28	—	
	Berlin ...	30.27	25	E	2	bc	30.17	- .17	20	19	- 3	ESE	2	bc	*	30	18	—	
	Wiesbaden ...	*	*	*	*	*	29.94	- .15	30	28	- 1	E	4	c	*	37	25	—	
	Munich ...	29.88	24	E	4	0	29.84	- .17	25	24	- 3	E	6	o	*	28	?	—	
	The Helder ...	30.06	32	E	7	bc	29.99	- .14	28	26	- 4	E	7	bc	4	36	27	—	
	Brussels ...	*	*	*	*	*	29.86	- .05	28	28	- 3	E	4	bc	*	38	26	—	
	Cape Gris Nez...	29.78	51	ENE	7	bc	29.75	- .06	27	27	- 5	ESE	5	c	3	37	27	—	
	Paris ...	29.70	39	E	4	r	29.70	- .05	34	33	- 7	E	3	o	*	43	34	0.32	
	Brest ...	29.60	54	ENE	3	0	29.59	+ .02	47	45	- 5	SE	4	o	4	54	40	—	
GERMANY.	Lorient ...	29.51	54	SE	3	bc	29.55	+ .01	48	47	- 4	ENE	5	o	5	57	46	0.20	
	Rochefort ...	29.63	52	SE	4	0	29.52	- .17	37	35	+ 5	WNW	8	c	4	61	46	0.24	
	Belfort ...	29.80	35	NE	3	0	29.77	- .08	32	32	- 5	NNE	1	s	*	38	28	0.01	
	Lyons ...	29.67	44	N	1	r	29.73	- .07	42	42	- 2	ESE	1	f	*	47	42	0.79	
	Nice ...	29.68	45	ENE	7	r	?	?	46	44	- 4	?	3	bc	2	66	41	2.44	
	Perpignan ...	29.69	49	NNE	3	bc	29.75	+ .10	42	42	- 8	NNW	3	bc	*	63	40	—	
	Biarritz ...	29.62	57	S	3	bc	29.73	+ .07	57	53	+ 6	WSTN	7	r	7	63	?	0.08	
	Cornwall ...	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	—
	Lisbon ...	29.97	59	W	4	0	30.04	+ .12	60	58	+ 5	STN	5	bc	?	64	55	0.04	

For Explanation of Columns, see p. 4.

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

WEATHER

CHARTS

for 8 a.m. on WEDNESDAY, 7th NOVEMBER

1888.

BAROMETER, WIND & SEA.

(Explanation of Map)

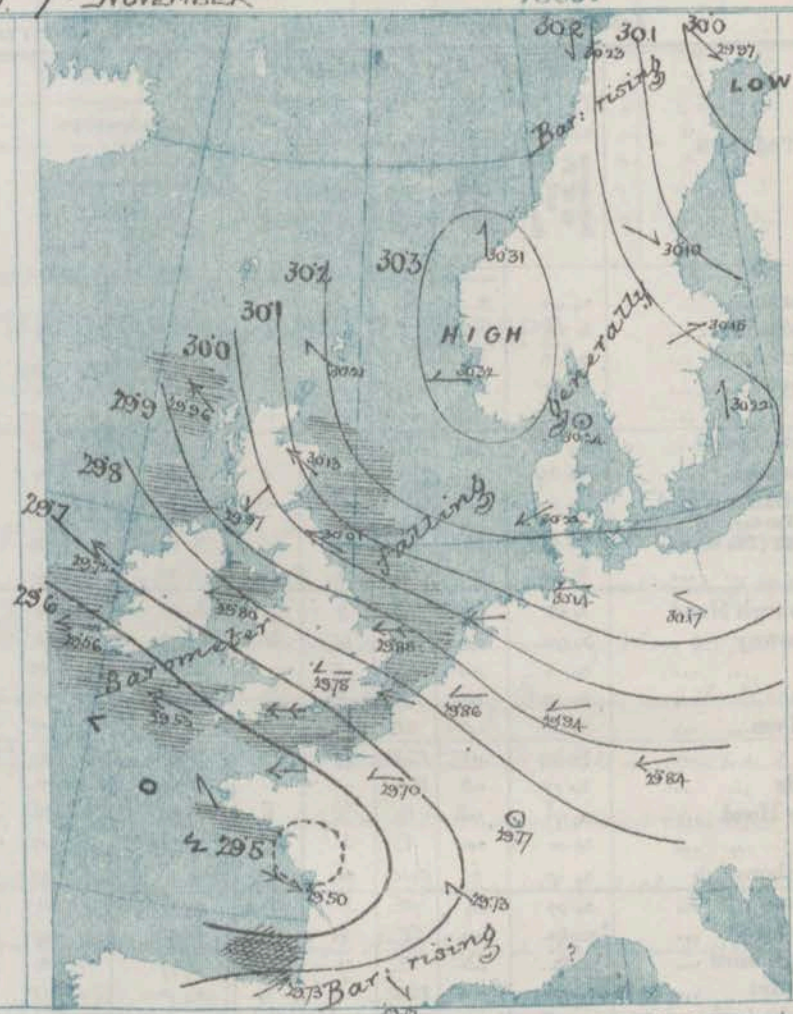
Barometer — Isobars are drawn for each tenth of an inch. Changes since previous morning are stated in words.
Wind — Arrows show the prevalent winds. They fly with the wind and their barbs and feathers refer to force, thus —
 * — forces above 10; — forces 8 to 10;
 — forces 5 to 7; — forces 1 to 4;
 ○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

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

MEAN HEIGHT of the BAROMETER

at 8 a.m. for the month of 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	29.898
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.

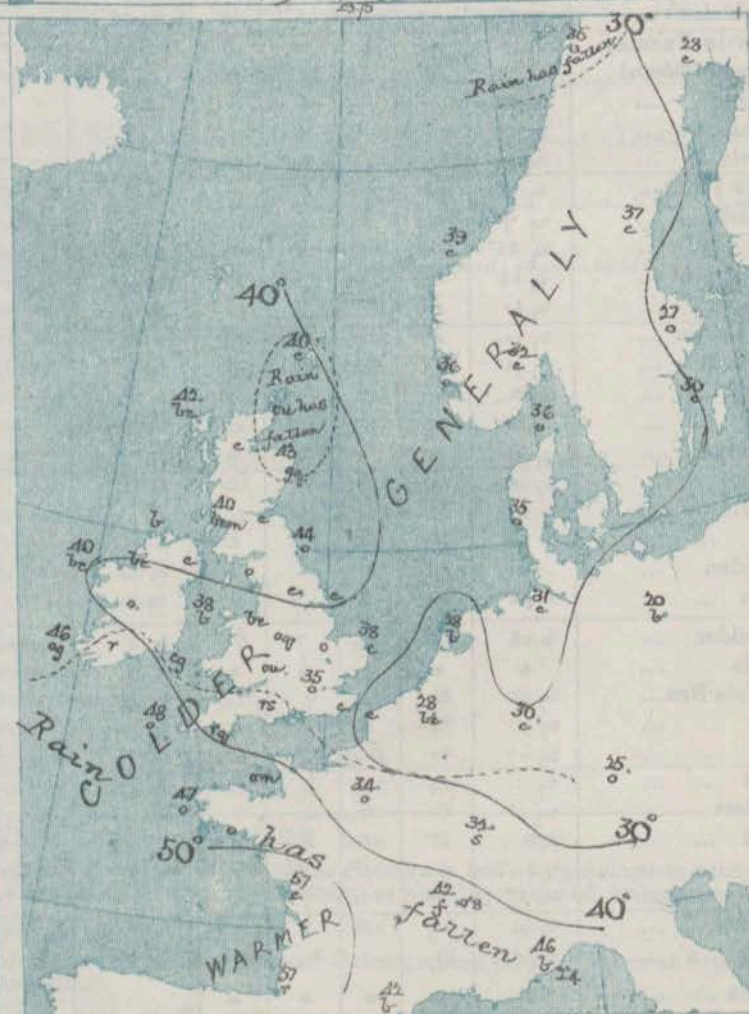
Temperature — Isotherms are drawn for each 10° Changes since previous morning are stated in words.
Weather — is shown by Letters of the Beaufort Scale.
Rainfall — A dotted line separates the districts in which rain has fallen from those where there has been none. Falls of 0.5 in. or more, are quoted 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.		
			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	38.9	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	36.9	42.7	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	52.6	46.7	50.0	48.0	3.76
Jersey	51.9	44.2	47.5	45.6	4.24
Hurst Castle	50.5	40.8	44.6	43.6	2.98
Dover	49.1	40.7	44.0	42.4	3.56
LONDON	48.6	37.8	42.0	40.5	2.14
Oxford	48.6	37.0	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 30.3 ins. and upwards in an anticyclone lying over Norway.
Lowest 29.5 ins. and less in a small depression lying near Rochester.
Gradients rather steep over our islands, the Netherlands and Germany, but slight elsewhere.
Barometer falling at all but the Spanish and south French stations - most in the south of Ireland.

TEMPERATURE

Highest 60° at Lisbon, 54° at Rochefort and Biarritz, 48° at Scilly and Lorient, 44° at Brest, and 46° at Valencia.
Lowest 20° at Berlin, 25° at Munich, 27° at Stockholm and Cape Eric Hay, and 28° at Haparanda, Helder and Brussels.
 Sharp frost occurred last night over the Netherlands and Germany.

WIND

Strong from the E^{wd} or SE^{wd} over our Islands and the Netherlands, with a gale in the east of England.
Light from the NW^{wd} in Scandinavia; strong to gale from the W^{wd} in the southwest of France.
Fresh to strong gales from the E^{wd} were experienced yesterday on many parts of the English coast.

WEATHER

Fine in the northwest of our Islands, and also in the south of France.
Cloudy or overcast elsewhere, with rain on the south coasts of Ireland and England, and sleet at Harst Coast.
Rain fell yesterday at most of our southwestern stations.

SEA

High at Biarritz, and rough or rather so on nearly all our coasts.

PROBABLE CHANGES IN SYSTEM NOW PREVALENT

The present tendency is for an increase in the steepness of the gradients over our Islands, and gales are therefore probable on all coasts, - from SE in Scotland, but from the E^W over Ireland and England. Cold rain or sleet is likely in most districts.

FORECASTS

For the 24 hours ending at NOON on 8th November 1888.

DISTRICTS.

FORECASTS.

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

SE^{ly} winds, increasing to a gale;
cloudy, some cold showers.

E^{ly} gales continuing; cloudy,
squally, some cold showers.

E^{ly} winds, increasing to a gale;
cloudy, some snow showers.

DISTRICTS.

FORECASTS.

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

Same as N^{os} 0 and 1.

E⁶ Strong winds and gales; cloudy,
some cold rain or sleet.

The SOUTH CONE has been hoisted this morning in districts 0, 1 and 6, and the NORTH CONE on all other parts of our coast.

WARNINGS

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

The **North Cone**, *point upwards* (\uparrow) 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 ~~over~~ *turn* towards S. or S.W., the *South Cone* is hoisted in preference to the *North Cone*.

YESTERDAY'S 2 P.M. REPORTS.

	Bar.	Dry.	Wet.	Wind.	Wet.	Sea.		Bar.	Dry.	Wet.	Wind.	Wet.	Sea.
Skudesnæs ...	30.40	38	32	E 2	0	3	Holyhead ...	29.83	42	38	E 4	bag	7
Sumburgh Head ...	30.24	44	41	SSE 3	be	4	Valencia ...	29.71	50	49	E 4	om	4
Stornoway ...	30.03	45	45	SE 1	b	2	Scilly ...	29.55	50	49	ENE 6	op	6
Aberdeen ...	30.14	44	39	SE 6	ogg	6	Jersey ...	29.62	48	46	ENE 4	o	3
Shields ...	30.09	44	39	ESE 7	c	6	Dungeness ...	29.77	41	39	ESE 7	o	6
Androsen ...	30.01	45	45	NE 3	b	2	London ...	29.84	40	38	ESE 5	ag	*
Malin Head ...	29.94	44	40	SE 6	b	5	Yarmouth ...	29.63	42	38	E 8	b	6
Mullaghmore ...	29.87	45	41	E 4	cm	4	Rocheport ...	29.60	58	55	SW 4	c	2
Belmullet ...	29.80	46	43	ESE 5	o	*							

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

The reports for yesterday morning showed that pressures ranged from between 30.20 and 30.45 in. in a large high-pressure area, which covered the whole of northern Europe and the Baltic, and from a little above 30.5 in. over Algeria, to less than 29.6 in. in a large depression, the centre of which lay over the Atlantic, to the westward of Ushant. The gradients were somewhat steep (for SE⁴ and E⁴ winds) over the British Islands and the Netherlands, moderate to slight elsewhere. Light E⁴ and N⁴ breezes prevailed over central Europe and the Baltic, with fair cold weather, fresh SE⁴ winds in the north of our Islands, with cloudy and slightly showery weather, strong E⁴ winds and gales over England and the Channel, with fair weather in the east, and cold rain in the southwest; while over Spain and the southwest of France the wind was S⁴ to SW⁴. Along the south coast of France and the Riviera there were strong NE⁴ winds, and dull wet weather. Temperature had given way greatly over Central Russia, Germany, and at our own southeastern stations, but had begun to rise in Lapland (where a SW⁴ breeze had set in). The highest readings reported were 68° at Palermo, 67° at Malta, 65° at Algiers, 61° at Brindisi, 60° at Sanquiniere, 54° at Bilbao, 54° at Scilly, and 50° at Roches Point and Jersey; the lowest were 6° at Moscow, 15° at Marmel, 18° at Warsaw and Riga, 19° at Kiev, 22° at Kharkow, 23° at Berlin, 25° at Hernösand, 28° at Munich, and 38° at Loughborough.

Later in the day a further reduction of temperature took place over central Europe and England, and the E⁴ wind continued to blow hard.

EXPLANATION OF COLUMNS GIVEN ON PAGE 1.

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

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

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

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

DAILY WEATHER REPORT.

for *Thursday, 8th November 1888.*
Issued by the Meteorological Office, 116, Victoria Street, London. R.H. SCOTT, Secretary.

		† YESTERDAY EVENING.					8 A.M. TO DAY.										PAST 24 HOURS.		
STATIONS.		Barometer at 32° F. and Sea Level.	Temp. in Shade.	WIND.		Weather.	BAROMETER.		SHADE TEMP.			WIND.		Weather.	Sea. (0 to 9.)	SHADE TEMP.		Amount of Rainfall.	
				Dir.	Force. (0 to 12.)		Reading at 8 a.m. and Sea Level.	Difference from 8 a.m. yesterday.	Dry.	Wet.	Difference from 8 a.m. yesterday.	Dir.	Force. (0 to 12.)			Max.	Min.		
SCANDINAVIA.	Haparanda ..	30.20	22	N	2	b	30.26	+ .24	27	26	- 1	SE	0	C	*	30	21	-	
	Hernösand ...	30.31	26	N	0	b	30.40	+ .30	21	20	- 16	SE	0	C	*	41	21	-	
	Stockholm ...	30.12	23	N	2	b	30.21	+ .06	34	30	+ 7	N	2	C	*	36	24	-	
	Wisby ...	30.05	40	NHE	6	c	30.16	- .06	34	32	+ 4	W	4	C	*	41	28	-	
	Bodö ...	30.31	85	N	1	o	30.30	+ .07	33	31	- 2	EHE	2	C	1	36	30	-	
	Christiansund...	30.23	37	SE	1	b	30.28	- .03	35	34	- 4	S	1	b	2	41	32	-	
	Skudesnaes ...	30.27	32	N	0	b	30.30	- .02	32	30	- 4	NE	1	b	2	41	28	-	
	Christiania Fjord (Fjorder)	30.22	38	N	4	b	30.31	+ .02	36	33	+ 4	N	2	b	1	?	36	-	
	Skagen (The Scaw)	30.20	35	NHE	1	b	30.26	+ .02	35	33	- 1	E	1	b	1	37	30	-	
	Fanö ...	30.19	33	EHE	4	C	30.21	- .01	34	32	- 1	EHE	2	C	*	36	32	-	
BRITISH ISLANDS.	Sumburgh Head	30.17	39	SE	3	r	30.13	- .08	41	39	+ 1	SE	3	C	4	43	38	0.03	
	Stornoway ...	29.91	44	SE	6	b	29.86	- .10	42	41	0	SE	6	bC	5	46	36	-	
	Wick ...	30.07	44	S	6	o	30.06	- .07	43	41	0	S	6	C	6	45	40	0.05	
	Nairn ...	30.00	42	E	1	b	29.97	- .09	42	39	0	E	1	bC	1	45	38	-	
	Aberdeen...	30.08	41	SE	6	oggy	30.06	- .07	43	40	0	SE	8	oggy	6	44	41	0.10	
	Leith ...	29.98	43	ESE	4	C	29.97	- .06	43	39	0	ESE	4	C	*	44	40	-	
	Shields ...	29.97	43	ESE	6	o	29.98	- .03	42	39	- 2	ESE	6	C	6	44	34	-	
	Spurn Head ...	29.86	43	E	6	C	29.91	+ .02	43	41	+ 1	ESE	7	C	6	43	40	-	
	York ...	29.92	41	E	4	o	29.96	+ .01	41	38	0	E	3	C	*	45	39	-	
	Loughborough	29.86	38	ESE	4	o	29.89	+ .01	36	36	+ 1	E	2	C	*	38	35	-	
GERMANY.	Ardrossan ...	29.90	38	EHE	3	b m	29.89	- .08	41	38	+ 1	EHE	4	am	2	49	38	-	
	Malin Head ...	29.78	44	SE	7	o	29.73	- .14	42	42	0	SE	7	C	6	45	38	-	
	Mullaghmore...	29.66	45	ESE	8	omg	29.64	- .13	45	44	+ 5	ESE	6	ogm	4	46	39	-	
	Belmullet ...	29.64	41	ESE	6	C	29.58	- .14	44	43	+ 4	SE	6	C	*	44	39	-	
	Donaghadee ...	29.60	45	ESE	6	C	29.79	- .11	43	42	- 1	SE	6	C	4	47	43	-	
	Barrow-in-Furness	29.83	40	ESE	7	C	29.84	- .04	40	38	- 1	NE	4	bC	*	43	39	-	
	Liverpool (Bidston)	29.79	40	E	6	o	29.86	+ .01	37	35	+ 1	ESE	4	C	4	41	36	-	
	Holyhead ...	29.74	40	ESE	6	C	29.74	- .06	40	39	+ 2	E	6	ogym	6	42	37	0.11	
	Parsonstown ...	29.65	40	SE	2	o	29.62	- .10	46	45	+ 8	SE	2	C	*	46	37	0.03	
	Valencia ...	29.43	47	E	6	og	29.46	- .10	52	50	+ 6	SE	4	C	4	52	45	0.01	
FRANCE & NETHERLANDS.	Roche's Point...	29.51	45	ESE	7	r	29.52	- .08	52	51	+ 7	ESE	4	C	4	52	43	0.70	
	Pembroke ...	29.60	40	E	6	r	29.65	- .03	44	44	+ 6	ESE	6	24	5	44	36	0.10	
	Scilly ...	29.70	51	ESE	6	op	29.51	- .02	54	52	+ 6	ESE	7	C	6	54	48	0.11	
	Prawle Point ...	29.62	46	E	7	r	29.67	+ .03	51	49	+ 13	ESE	6	ogm	5	51	38	0.46	
	Jersey ...	29.64	45	E	3	om	29.73	+ .14	49	47	+ 6	ESE	4	om	3	51	42	0.01	
	Hurst Castle ...	29.72	40	E	7	om	29.78	+ .09	45	45	+ 8	ESE	4	m	5	45	36	0.01	
	Dungeness ...	29.78	37	ESE	5	C	29.83	+ .08	40	39	+ 6	SE	4	C	4	41	33	-	
	London ...	29.81	37	E	4	o	29.86	+ .08	38	36	+ 3	E	3	C	*	38	32	-	
	Oxford ...	29.81	36	E	2	m	29.86	+ .07	37	36	+ 1	E	3	og	*	37	35	0.02	
	Cambridge ...	29.84	38	E	3	C	29.90	+ .06	39	38	+ 2	E	1	C	*	40	36	-	
PENIN-SULA.	Yarmouth ...	29.87	39	ESE	7	og	29.93	+ .05	39	38	+ 1	ESE	6	og	6	40	36	-	
	Cuxhaven ...	30.08	31	ESE	4	C	30.12	- .02	28	27	- 3	SE	2	C	*	34	26	-	
	Berlin ...	30.17	25	ESE	3	b	30.19	+ .02	24	23	+ 4	NW	2	4	*	28	19	-	
	Wiesbaden ...	*	*	*	*	*	29.99	+ .05	32	31	+ 2	E	3	C	*	34	28	-	
	Munich ...	29.95	25	E	4	o	30.05	+ .21	26	26	+ 1	E	4	C	*	27	25	-	
	The Helder ...	30.00	31	E	5	b	30.02	+ .03	26	24	- 2	E	3	b	3	34	25	-	
	Brussels ...	*	*	*	*	*	29.96	+ .10	30	?	+ 2	E	3	C	*	36	28	-	
	Cape Gris Nez...	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	
	Paris ...	29.74	38	EHE	4	o	29.85	+ .15	38	38	+ 4	NE	1	4	*	40	?	-	
	Brest ...	29.61	52	SE	3	C	29.61	+ .02	51	50	+ 4	ESE	7	C	5	55	41	0.16	
FRANCE & NETHERLANDS.	Lorient ...	29.63	50	E	3	o	29.61	+ .06	51	50	+ 3	ESE	5	C	5	54	45	0.20	
	Rochefort ...	29.70	57	W	5	o	29.76	+ .26	52	51	- 5	SE	7	C	2	59	48	0.08	
	Belfort ...	29.84	33	N	1	o	29.96	+ .19	35	35	+ 3	N	1	r	*	35	28	0.71	
	Lyons ...	29.78	49	S	3	o	29.93	+ .20	46	44	+ 4	SW	1	C	*	50	?	0.04	
	Nice ...	29.74	52	EHE	4	b	29.89	?	46	44	0	EHE	5	bC	1	59	45	-	
	Perpignan ...	29.86	55	W	3	bC	29.90	+ .15	42	42	0	W	3	b	*	66	40	-	
	Biarritz ...	29.82	60	SSW	7	o	29.71	- .02	62	55	+ 5	SSW	5	C	2	63	54	0.04	
	Corunna ...	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	
Lisbon ...	29.96	63	SW	7	o	29.80	- .21	57	56	- 3	WSW	7	r	?	66	55	1.73		

WEATHER CHARTS

for 8 a.m. on Thursday, 8th November, 1888.

BAROMETER, WIND & SEA.

(Explanation of Map)

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

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

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

Sea Disturbance — where considerable, is shown thus.

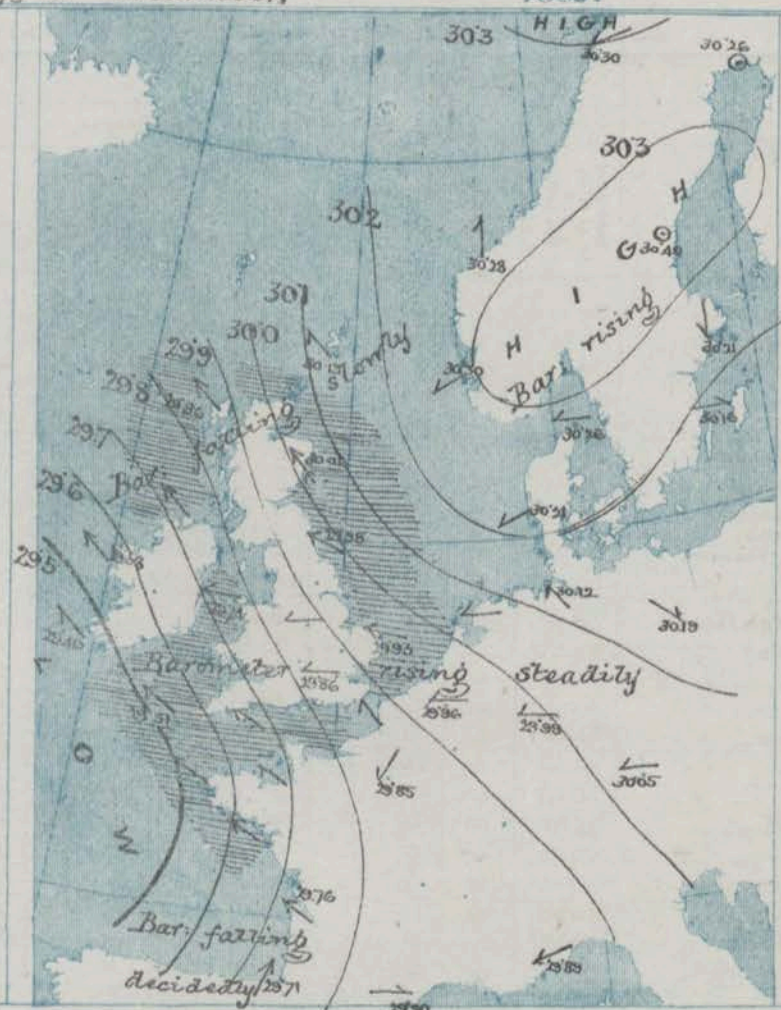
— = Rough. — = High.

MEAN HEIGHT of the BAROMETER

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

During the 15 Years 1871-1885.

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Sumburgh Head	29.687
Stornoway	29.707
Wick	29.726
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Parsonstown	29.848
Valencia	29.864
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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.

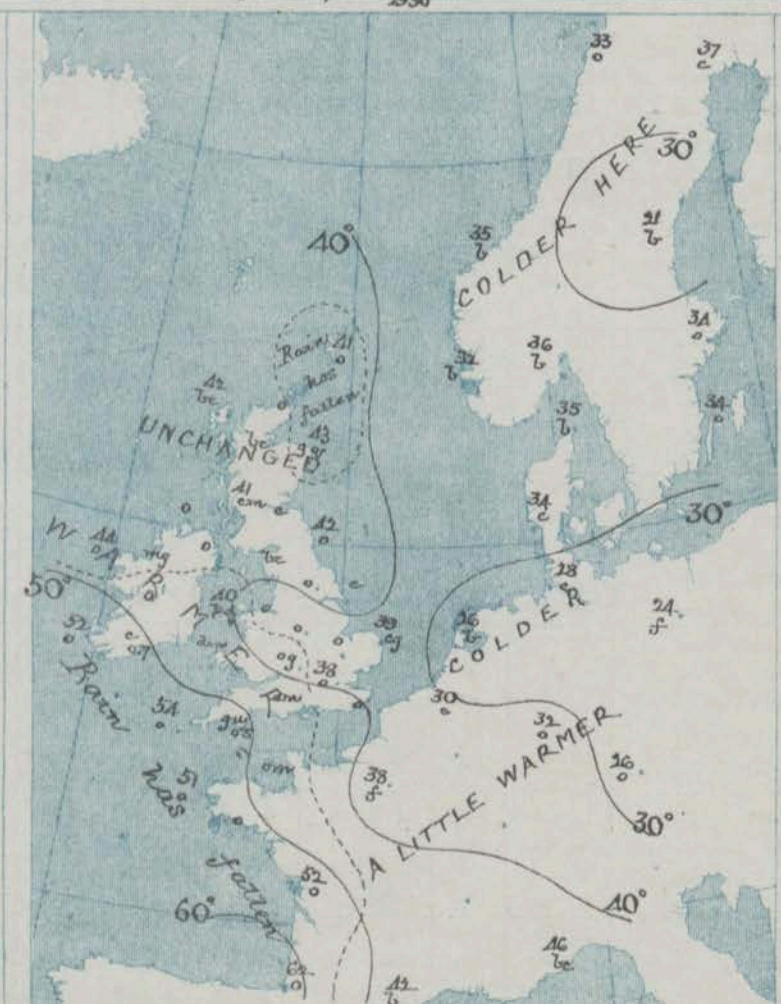
MEANS OF TEMPERATURE IN SHADE.

AND RAINFALL.

for the month of November.

STATIONS	TEMPERATURE.				RAINFALL. (Inches)
	Daily Max.	Daily Min.	at 5 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	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	42.8	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
Scilly	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	49.8	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	2.02
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, 30.20 ins. to 30.40 ins. in a large high pressure area lying over Scandinavia and the Baltic.
Lowest, 29.5 ins. and less, in a complete low pressure area lying off the southwest of Ireland and the Bay of Biscay.
Gradients, rather steep over the British Isles, Brittany, and the Bay of Biscay, moderate to slight elsewhere.
Barometer unsteady; rising on our western coast, but beginning to fall again over Spain and the southwest of France.

TEMPERATURE

Highest, 61° at Biarritz, 57° at Lisbon, 54° at Skilly, 52° at Valencia, and 51° at Boulogne, Frost and snow.
Lowest, 21° at Hemsö, 24° at Berlin, and 26° at Munich, 28° at Copenhagen, and 30° at Brussels.

It has risen rather decidedly (but apparently temporarily) in the southwest and south of our Islands since yesterday.

WIND

Very light and variable over Scandinavia, light from the E. over Denmark.

Strong to gale from the SE. on our eastern, northern, and western coasts.

Moderate from ESE. over the Channel and south of England.

At Rochefort it has shifted from W. to ESE. and blows a moderate gale.

WEATHER

Fine on the eastern shore of the North Sea, with fog in places.

Dull and gloomy over our Islands and France, with showers and an ugly appearance in the southwest.

Much cold rain has fallen at our southwestern stations and at Lisbon, little or none in other places. A few flakes of snow fell in Sweden last evening.

SEA

Rough on all exposed parts of our coasts.

PROBABLE CHANGES IN SYSTEM NOW PREVALENT

As the barometer is again falling decidedly in the southwest, and the wind at Rochefort has shifted to the E. and increased, it is probable that there will be a renewal of the gale in the Channel shortly, with cold showers and a very rough sea. The warming signs are therefore left up.

FORECASTS

for the 24 hours ending at NOON on 9th Nov^r

1883.

DISTRICTS.

FORECASTS.

1	SCOTLAND NORTH	SE ^{ly} gales and strong winds; drizzle, some cold showers.
2	SCOTLAND EAST	
3	ENGLAND N.E.	SE ^{ly} and E ^{ly} winds, increasing again in force; some showers at times.
4	ENGLAND EAST	
5	MIDLAND COUNTIES	
6	ENGLAND SOUTH	

DISTRICTS.

FORECASTS.

6	SCOTLAND WEST	E ^{ly} winds, strong and increasing, squally, cold.
7	ENGLAND N.W.	
8	ENGLAND S.W.	E ^{ly} winds, strong to a gale, with cold showers.
9	IRELAND NORTH	SE ^{ly} winds, strong, a gale at times; cold showers.
10	IRELAND SOUTH	
WARNINGS		The south cone is still flying on the Scotch coasts, and the north cone elsewhere.

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

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

YESTERDAY'S 2 P.M. REPORTS.

	Bar.	Dry.	Wet.	Wind.	Wes.	Sea.		Bar.	Dry.	Wet.	Wind.	Wes.	Sea.
Skudesnaes ...	30.28	41	35	E 2	c	2	Holyhead ...	29.74	41	38	E 7	bcn	6
Sumburgh Head ...	30.19	41	39	SE 2	c	4	Valencia ...	29.49	47	45	E 6	og	5
Stornoway ...	29.94	46	44	SE 6	b	5	Scilly ...	29.52	50	48	E 7	o	6
Aberdeen ...	30.10	44	40	SE 6	ogp	6	Jersey ...	29.61	46	45	E 3	o	3
Shields ...	29.98	44	41	ESE 6	o	6	Dungeness ...	29.76	37	35	ESE 5	c	4
Ardrossan ...	29.90	45	40	ESE 6	b	3	London ...	29.79	38	35	ESE 4	o	*
Malin Head ...	29.81	45	42	SE 8	o	6	Yarmouth ...	29.87	39	37	ESE 8	og	6
Mullaghmore ...	29.74	45	40	E 8	cm	6	Rochefort ...	29.64	59	56	W 7	c	3
Belmullet ...	29.64	44	40	ESE 7	bc	*							

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

The reports for yesterday morning showed that pressure was highest, 30.3 ins. and upwards, over Norway, but high, 30.1 ins. and upwards, over the whole of Scandinavia, Denmark, the Baltic, North Germany, and Central Russia. The lowest readings 29.5 ins. and less, were found in a small depression lying over the west of France, but a large area of low pressure (29.6 ins. and less) extended from Central France over the Bay of Biscay to the southwest of our Islands. The wind was moderate from the End over Central Europe, and strong to gale from the same quarter or from SE over our Islands. Over the southern parts of the Continent, however, the wind was chiefly SW^{ly}, and in the southwest of France it was strong to gale from the Wnd, while in Sweden and Finland it was chiefly NW^{ly}. The weather was fair over Southern Europe and also in the northwest of our Islands, but very cloudy elsewhere, with rain on the south coasts of Ireland and England, and snow at Archangel and Berne. Temperature had risen somewhat over Southern Europe and also in the extreme north, but fallen elsewhere; readings ranged from 65° and upwards in the south of Italy and 60° and upwards at several of the Spanish and Algerian stations to many degrees below the freezing point over Austria and Central Russia. The highest individual readings were 69° at Malta, 68° at Palermo, 65° at Oran, 64° at Algiers and Ispah, and 62° at Sanguinaire, Lesina, Nemours, and Beitra; the lowest were 4° at Moscow, 6° at Warsaw and Kiev, 10° at Memel, 12° at Luga, 18° at Lemberg, 20° at Berlin, Racow and Charkov, and 25° at Kempfnewasser and Prague.

In the course of the day the small depression over the west of France steadily filled up, and the wind on our south coast fell to a moderate fresh breeze. A low pressure system, however, continued to hold in the southwest, and strong winds or gales from the End or SEnd continued in the west and north of our Islands. A little snow was experienced during the day in the extreme south of England.

EXPLANATION OF COLUMNS GIVEN ON PAGE 1.

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

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

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

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

DAILY WEATHER REPORT.

for Friday, 9th November 1888.
Issued by the Meteorological Office, 116, Victoria Street, London. R.H. SCOTT, Secretary.

		† YESTERDAY EVENING.					8 A.M. TO DAY.										PAST 24 HOURS.		
STATIONS.		Barometer at 32° F. and Sea Level.	Temp. in Shade.	WIND.		Weather.	BAROMETER.		SHADE TEMP.			WIND.		Weather.	Sea. (0 to 9.)	SHADE TEMP.			
				Dir.	Force. (0 to 12.)		Reading at 32° F. and Sea Level.	Difference from 8 a.m. yesterday.	Dry.	Wet.	Difference from 8 a.m. yesterday.	Dir.	Force. (0 to 12.)			Max.	Min.	Amount of Rainfall.	
SCANDINAVIA.	Haparanda ..	30.31	22	Z	0	b	30.27	+0.01	9	8	-18	Z	0	?	*	28	?	-	
	Hernösand ...	30.42	18	Z	0	b	30.43	+0.03	18	17	-8	Z	0	0	*	32	16	-	
	Stockholm ...	30.35	29	Z	0	b	30.45	+0.24	23	21	-11	Z	0	0	*	34	?	-	
	Wisby ...	30.30	34	N	4	0	30.40	+0.24	38	32	-1	NE	2	0	*	45	32	-	
	Bodö ...	30.33	33	ENE	2	c	30.32	+0.02	33	31	0	ENE	2	0	1	34	30	-	
	Christiansund...	30.35	34	E	1	b	30.37	+0.09	31	30	-4	ESE	1	0	2	39	28	-	
	Skudesnaes ...	30.35	36	ESE	1	b	30.38	+0.08	38	34	+6	SE	4	0	3	?	?	-	
	Christiania Fjord (Fjord)	30.38	37	N	2	b	30.47	+0.10	38	31	-3	ENE	2	0	1	37	30	-	
	Skagen (The Sound)	30.36	35	SE	2	b	30.43	+0.17	33	31	-2	SE	2	0	1	37	32	-	
	Fanö ...	30.28	32	E	4	b	30.33	+0.12	32	31	-2	E	4	0	*	41	30	-	
BRITISH ISLANDS.	Sumburgh Head	30.13	42	SE	3	0	30.15	+0.02	44	40	+3	SE	4	0	5	44	37	-	
	Stornoway ...	29.88	45	SE	6	0	29.84	-0.02	44	43	+2	SE	4	0	6	46	41	-	
	Wick ...	30.07	44	S	6	0	30.06	-0.01	46	44	+2	S	4	0	6	46	41	0.03	
	Nairn ...	29.98	44	SSW	2	b	29.98	+0.01	42	40	0	SSE	3	0	2	46	40	-	
	Aberdeen...	30.07	44	SE	6	0	30.07	+0.01	44	41	+1	SE	4	0	4	45	43	-	
	Leith ...	30.01	43	SE	3	c	29.93	-0.04	44	41	+1	SE	5	0	*	46	41	-	
	Shields ...	29.99	43	ESE	4	0	29.96	-0.02	45	42	+3	ESE	5	0	6	45	37	-	
	Spurn Head ...	-	-	-	-	-	29.88	-0.03	44	42	+1	ESE	4	0	6	44	41	-	
	York ...	29.95	41	E	2	0	29.92	-0.04	43	41	+2	E	4	0	*	44	39	-	
	Loughborough	29.88	39	NE	3	0	29.85	-0.04	43	42	+1	E	2	0	4	44	36	0.17	
GERMANY.	Ardecrassan ...	29.87	39	ENE	4	b	29.85	-0.04	43	42	+2	ENE	2	0	1	45	38	0.04	
	Malin Head ...	29.75	44	SE	6	0	29.68	-0.05	45	45	+3	SE	6	0	6	45	38	-	
	Mullaghmore ...	29.68	46	E	5	0	29.61	-0.03	47	46	+2	E	5	0	4	47	44	-	
	Belmullet ...	29.63	46	ESE	5	0	29.54	-0.04	47	46	+3	ESE	5	0	*	49	44	0.06	
	Donaghadee ...	29.52	47	SE	5	c	29.78	-0.03	47	46	+1	ESE	6	0	4	47	43	0.10	
	Barrow-in-Furness	29.86	41	NE	5	0	29.81	-0.01	43	43	+3	NE	4	0	*	43	38	0.30	
	Liverpool (Bidston)	29.83	40	E	5	0	29.80	-0.06	43	43	+6	E	3	0	3	44	37	0.21	
	Holyhead ...	29.73	41	E	8	c	29.71	-0.03	46	45	+6	ESE	4	0	5	44	40	0.12	
	Parsonstown ...	29.61	46	SSE	2	0	29.58	-0.04	49	48	+3	SSE	2	0	*	51	44	0.06	
	Valencia ...	29.37	52	ENE	1	0	29.44	-0.02	52	50	0	SSE	4	0	4	52	46	0.11	
FRANCE & NETHERLANDS.	Roche's Point...	29.42	48	ESE	8	T	29.53	+0.01	52	50	0	SSE	5	0	4	52	48	0.75	
	Pembroke ...	29.57	43	ESE	7	T	29.66	+0.01	50	49	+6	SE	3	0	4	52	43	0.44	
	Scilly ...	29.32	54	ESE	7	0	29.57	+0.06	53	50	-1	E	5	0	6	54	49	0.60	
	Prawle Point ...	29.54	50	ESE	8	T	29.68	+0.01	54	51	+3	NE	1	0	2	54	46	0.26	
	Jersey ...	29.58	53	ESE	6	0	29.69	-0.04	50	49	+1	E	0	0	0	55	47	0.10	
	Hurst Castle ...	29.71	48	E	6	c	29.72	-0.06	49	49	+4	E	4	0	5	52	45	0.49	
	Dungeness ...	29.83	44	SE	4	0	29.77	-0.06	44	43	+4	ESE	4	0	3	46	40	0.02	
	London ...	29.84	41	ESE	4	0	29.79	-0.07	44	43	+6	ESE	2	0	3	44	38	0.28	
	Oxford ...	29.78	42	E	3	T	29.78	-0.03	44	44	+7	E	3	0	*	45	37	0.29	
	Cambridge ...	29.87	40	E	2	0	29.84	-0.06	44	43	+3	E	2	0	*	45	38	-	
PENINSULA.	Yarmouth ...	29.93	42	ESE	6	c	29.88	-0.05	42	40	+3	ESE	6	0	6	42	38	-	
	Cuxhaven ...	30.19	31	ESE	4	b	30.23	+0.11	37	35	+9	ESE	5	0	*	37	?	-	
	Berlin ...	30.24	33	NW	2	0	30.32	+0.13	35	34	+11	ESE	2	0	*	36	23	-	
	Wiesbaden ...	*	*	*	*	*	30.09	+0.10	30	28	-2	NE	3	0	*	36	27	-	
	Munich ...	30.09	31	E	3	0	30.04	-0.01	26	26	0	NE	6	0	*	32	25	-	
	The Helder ...	30.06	31	E	3	b	30.06	+0.04	30	29	+4	ESE	5	0	3	34	25	-	
	Brussels ...	*	*	*	*	*	29.89	-0.07	31	30	+1	E	4	0	*	39	30	0.04	
	Cape Gris Nez...	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	-	
	Paris ...	29.83	46	ENE	3	0	29.75	-0.10	39	38	+1	E	1	0	*	49	?	-	
	Brest ...	29.44	55	S	8	0	29.67	+0.06	53	50	+2	E	5	0	4	57	41	0.63	

For Explanation of Columns, see p. 4.

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

WEATHER CHARTS

for 8 a.m. on Friday, 9th November, 1888.

BAROMETER, WIND & SEA.

(Explanation of Map)

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

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

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

→ = forces 5 to 7; → = forces 1 to 4;

○ = dead calm.

Sea Disturbance — where considerable, is shown thus.

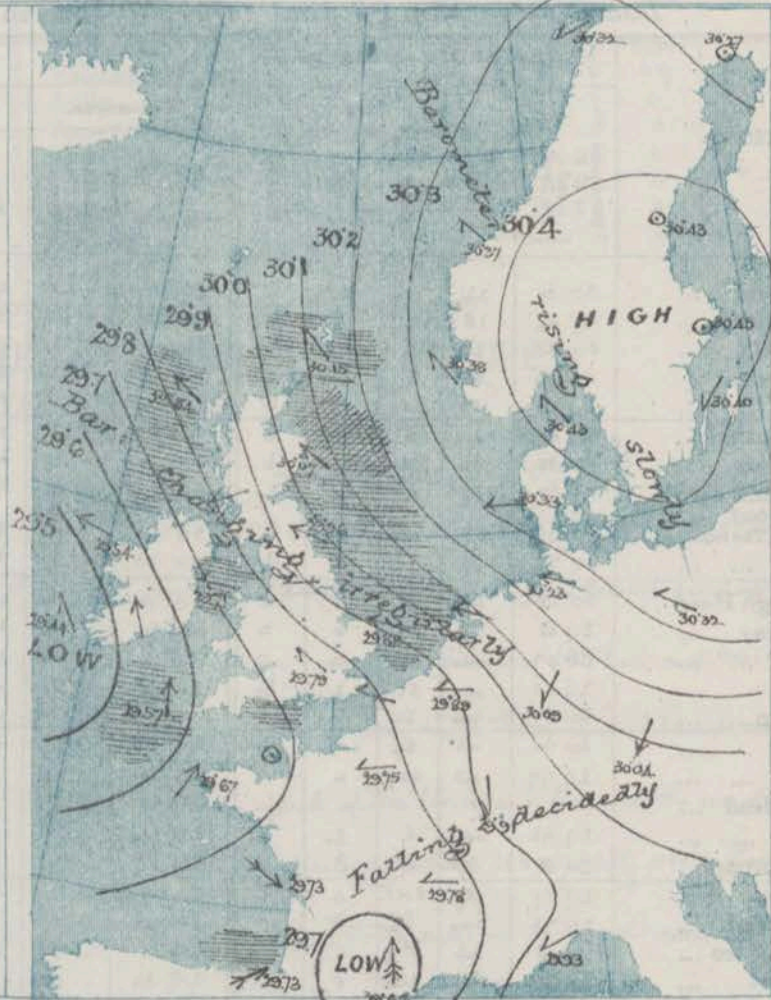
— Rough — High.

MEAN HEIGHT of the BAROMETER

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

During the 15 Years 1871—1885.

STATIONS.	MEAN READINGS.
	in.
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	29.878
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	29.898
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.

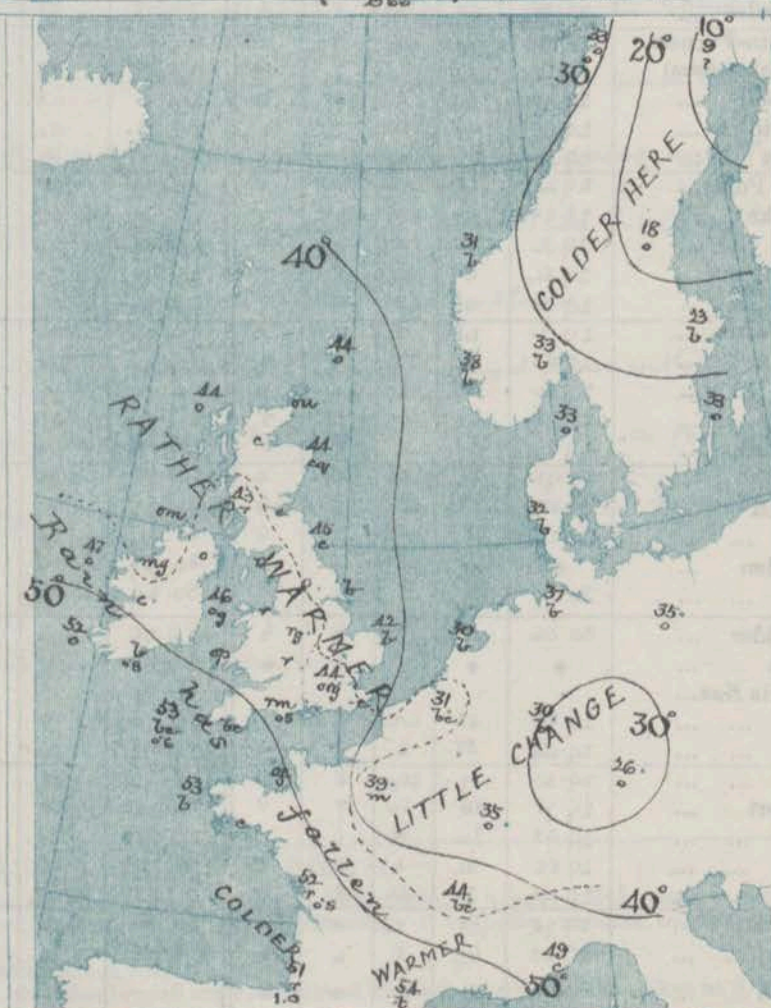
MEANS OF TEMPERATURE IN SHADE.

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	45.3	37.4	41.5	39.8	4.24
Stornoway	45.7	38.7	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	3.02
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	36.9	42.7	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	4.58
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	4.24
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	42.0	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	42.9	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, 30.30 ins. to 30.50 ins. in an anticyclone lying over Scandinavia, the Baltic and North Germany, 30.0 ins. and more over the South, at Lowest, 29.4 ins. and less, in a depression lying to the westward of Valencia, 29.7 ins. and less in a secondary system lying over the southward of France. ^{Barometer} rather steep over our Islands, moderate over the North Sea, slight over Germany and Scandinavia. ^{Barometer} rising to the eastward of the North Sea, unsteady in our islands, falling in the south of France.

TEMPERATURE

Highest, 54° at Howel Point, 53° at Sully, Port and Looe, 52° at Valencia, Lorient, and Rochfort, and 50° at Penzance. Lowest, 3° at Haparanda, 18° at Helsingfors, 23° at Stockholm, 26° at Munich, 42° at Yarmouth, and 43° at York and Loughborough. It has fallen greatly over Sweden, risen in most parts of our islands and Germany.

WIND

Moderate to strong from the E. over the North Sea and from NE. in Germany. SE in our Islands - strong to a gale in the east and northeast, fresh to strong in the northwest, moderate in the south. In Brittany it is SW. In the south of France SW gales prevail.

WEATHER

Fine and bright to the eastward of North Sea; cloudy and unsettled in Scotland. Dull over England, Ireland, and France, with rain in many places. Much rain is reported in the southwest of France, and thunder at Perpignan.

SEA

High off the east of Scotland, rough off our east coasts and at Sully, and also on the Spanish coast ^(rather rough) but decreasing in the Irish Sea, moderate over the Bay of Biscay.

PROBABLE CHANGES IN SYSTEM NOW PREVALENT

The weather is in a very unsettled condition generally, but there are no indications of the approach of any serious gale to our own coasts at present.

FORECASTS

for the 24 hours ending at NOON on 10th Nov^r

1888.

DISTRICTS.

FORECASTS.

0	SCOTLAND NORTH	SE ² gales, moderating, dull, some rain.
1	SCOTLAND EAST	
2	ENGLAND N.E.	SE ² and E ² winds strong to a gale; cloudy, rain at times.
3	ENGLAND EAST	
4	MIDLAND COUNTIES	E ² winds, cloudy, rainy, cold.
5	ENGLAND SOUTH	

DISTRICTS.

FORECASTS.

6	SCOTLAND WEST	SE ² winds, unsettled, rain at times.
7	ENGLAND N.W.	
8	ENGLAND S.W.	SW ² winds, moderate, some showers.
9	IRELAND NORTH	SW ² winds falling moderate; cloudy, some showers.
10	IRELAND SOUTH	
WARNINGS		No fresh warnings have been issued.

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

YESTERDAY'S 2 P.M. REPORTS.

	Bar.	Dry.	Wet.	Wind.	Wen.	Sea.		Bar.	Dry.	Wet.	Wind.	Wen.	Sea.
Skudesnaes ...	30.32	42	37	E.N.E. 2	6	2	Holyhead ...	29.76	42	40	E 4	begin	6
Sumburgh Head ...	30.15	42	39	S.E. 3	0	4	Valencia ...	29.44	53	51	E 4	opm	4
Stornoway ...	29.89	46	45	S.E. 5	0	5	Scilly ...	29.36	52	52	S.E. 8	7	6
Aberdeen ...	30.07	45	41	S.E. 5	0 q q	6	Jersey ...	29.64	52	50	N.E.E. 5	0	4
Shields ...	29.99	43	40	E.S.E. 4	0	6	Dungeness ...	29.84	42	40	S.E. 4	0	3
Ardrossan ...	29.90	43	40	E.N.E. 4	0	2	London ...	29.85	43	41	S.S.E. 4	om	3
Malin Head ...	29.70	43	42	S.E. 4	0	5	Yarmouth ...	29.94	41	39	S.S.E. 5	0	6
Mullaghmore ...	29.68	47	45	E.S.E. 5	om	4	Rochefort ...	29.69	57	54	S.E. 7	0	2
Belmullet ...	29.63	49	47	E.S.E. 4	0	*							

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

The reports for yesterday morning showed that pressure was highest, 30.3 ins. and upwards, in an anticyclone lying over Scandinavia and relatively high, 30.1 ins. and upwards over Algeria. The lowest readings, 29.5 ins. and less, were found in a somewhat complex depression lying to the southward of the British Islands, and rather steep gradient for S.E.² and E.² winds prevailed over the United Kingdom and west of France. Strong breezes or moderate gales from those quarters were consequently reported in the regions indicated, while moderate or fresh breezes from the S.W.nd or W.nd prevailed over Spain. Over Ireland and the Baltic provinces, however, the wind was N.² or N.E.², and in Central Europe N.W.², while in Italy and Algeria it was very variable. The weather was fair over Southern Europe, and also in Scandinavia (Denmark), and Northern Russia, but dull elsewhere, with showers in the southwest of our Islands, and snow at St. Petersburg, Kiev, and Hermanstadt. Temperature had risen somewhat over Ireland, England and France, but fallen in most other localities; reading ranged from 60° and upwards in several parts of Spain, Algeria, and South Italy to many degrees below the freezing point over Northern and Central Europe. The highest individual values were 68° at Palma, 65° at Barcelona and Malaga, 64° at Bilbao and Algiers, 63° at Cagliari and Ispah, and 62° at Sanguinaires; the lowest were 2° at Moscow, 12° at Kiev and Charkov, 15° at Uleaborg, 17° at Breslau and Warsaw, 18° at Lemberg and Nizhniyoff, 19° at Odessa, 21° at Hermsand, Munster, Vienna, Prague and Budapest.

In the course of the day fresh depressions were developed in the low pressure area lying to the southward of our Islands, and the wind increased to gale from E. or S.E. in the west and southwest generally. Rain fell in many parts of Ireland and England, and lightning was seen in the southwest at night.

EXPLANATION OF COLUMNS GIVEN ON PAGE 1.

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

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

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

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

DAILY WEATHER REPORT.

for *Saturday, 10th November 1888.*
Issued by the Meteorological Office, 116, Victoria Street, London. R. H. SCOTT, Secretary.

		+ YESTERDAY EVENING.					8 A.M. TO DAY.										PAST 24 HOURS.		
STATIONS.		Barometer at 32° F. and Sea Level.	Temp. in Shade.	WIND.		Weather.	BAROMETER.		SHADE TEMP.			WIND.		Weather.	Sea. (0 to 9.)	SHADE TEMP.			
				Dir.	Force. (0 to 12.)		Reading at 32° F. and Sea Level.	Difference from 8 a.m. yesterday.	Dry.	Wet.	Difference from 8 a.m. yesterday.	Dir.	Force. (0 to 12.)			Max.	Min.	Amount of Rainfall.	
SCANDINAVIA.	Haparanda ..	30.39	12	2	0	b	30.35	+08	5	4	-4	20	0	b	*	18	?		
	Hernösand ...	30.43	15	2	0	b	30.43	00	9	8	-9	2	0	b	*	25	9		
	Stockholm ...	30.39	23	2	0	b	30.42	-03	27	25	+4	2	0	0	*	32	19		
	Wisby ...	30.49	33	NNE	2	c	30.45	+05	33	32	0	NW	4	c	*	37	28		
	Bodö ...	30.38	36	ESE	5	o	30.36	+04	35	33	+2	ESE	2	r	1	36	32	0.04	
	Christiansund...	30.41	32	E	1	b	30.36	+01	29	28	-2	2	1	b	2	36	27		
	Skudesnaes ...	30.40	37	SE	2	b	30.38	00	37	33	-1	SE	4	c	3	?	36		
	Christiania Fjord (Færdor)	30.47	34	SE	2	o	30.46	-01	35	32	+2	NW	2	o	1	36	?		
	Skagen (The Scaw)	30.48	34	SSE	1	o	30.47	+04	34	33	+1	E	1	o	1	36	32		
	Fanö ...	30.34	36	E	5	o	30.37	+04	34	32	+2	SE	4	c	*	39	32		
BRITISH ISLANDS.	Sumburgh Head	30.14	44	SE	6	o	30.04	-11	44	41	0	SSE	5	o	6	45	42		
	Stornoway ...	29.80	47	SE	6	c	29.65	-19	47	46	+3	SE	6	bc	6	49	42		
	Wick ...	30.00	46	S	9	o	29.90	-16	46	44	0	S	9	0.4	7	46	42		
	Nairn ...	29.94	45	SSE	3	bc	29.82	-16	44	42	+2	SSE	3	c	2	48	42		
	Aberdeen...	30.06	44	SE	4	oqq	29.97	-10	44	40	0	SE	8	cq.4	8	46	43		
	Leith ...	29.94	44	SE	3	o	29.84	-09	43	39	-1	SE	4	c	*	48	41		
	Shields ...	29.95	45	ESE	7	c	29.91	-05	44	42	-1	ESE	6	o	6	48	36		
	Spurn Head ...	29.88	45	ESE	8	c	29.94	+06	44	42	0	SE	6	c	5	46	41		
	York ...	29.92	43	ESE	4	o	29.92	00	42	39	-1	ESE	4	o	*	47	40		
	Loughborough	29.86	41	E	2	o	29.88	+03	38	37	-5	E	2	o	*	44	35	0.03	
GERMANY.	Ardrossan ...	29.84	43	ESE	4	r m	29.75	-10	44	41	+1	E	3	om	2	46	41	0.08	
	Malin Head ...	29.68	45	SE	4	omr	29.54	-14	44	44	-1	SE	7	of	5	47	43		
	Mullaghmore ...	29.62	50	ESE	4	bc	29.41	-20	50	47	+3	ESE	7	og	4	53	45		
	Belmullet ...	29.55	49	ESE	4	b	29.27	-27	50	49	+3	SSE	9	r	*	54	47	0.05	
	Donaghadee ...	29.77	46	SE	6	r	29.67	-09	46	45	-1	SE	6	o	4	48	45	0.12	
	Barrow-in-Furness	29.83	42	ESE	5	o	29.79	-05	41	39	-2	SSE	5	o	*	45	40	0.19	
	Liverpool (Bidston)	29.81	43	E	5	o	29.79	-01	40	38	-3	SE	4	o	4	45	39	0.09	
	Holyhead ...	29.73	46	E	4	op	29.68	-03	45	42	-1	SE	4	b	4	48	42	0.06	
	Parsonstown ...	29.62	49	SE	2	c	29.43	-15	52	49	+3	SSE	4	o	*	56	47		
	Valencia ...	29.51	52	SSE	3	b	29.25	-19	52	51	0	W	4	ogm	5	55	50	0.51	
FRANCE & NETHERLANDS.	Roche's Point...	29.57	52	SSE	5	bc p	29.36	-17	53	53	+1	SE	7	r	6	54	50	0.55	
	Pembroke ...	29.71	48	ESE	4	o	29.61	-05	51	48	+1	SE	6	cq	4	51	50	0.01	
	Scilly ...	29.62	54	S	5	o	29.52	-05	54	53	+1	SSE	8	og	6	57	52	0.01	
	Prawle Point ...	29.72	52	ESE	3	o	29.74	+06	53	51	-1	SE	5	c	4	58	48		
	Jersey ...	29.72	54	2	0	op	29.82	+13	50	48	0	ESE	4	om	3	53	49	0.01	
	Hurst Castle ...	29.76	46	E	4	m	29.81	+09	50	49	+1	ESE	4	m	2	52	45	0.13	
	Dungeness ...	29.77	44	ESE	4	c	29.91	+14	42	39	-2	SSE	5	bc	4	45	41		
	London ...	29.81	42	E	4	b	29.89	+10	39	38	-5	SE	1	bc	*	45	35	0.02	
	Oxford ...	29.83	40	ESE	2	b	29.87	+09	40	40	-4	E	4	od	*	46	37	0.07	
	Cambridge ...	29.84	42	E	2	c	29.90	+06	39	38	-5	E	1	o	*	45	32		
PENINSULA.	Yarmouth ...	29.89	44	ESE	7	bc q	29.96	+08	40	38	-2	SE	6	bc	6	44	39		
	Cuxhaven ...	30.25	37	ESE	5	b	30.30	+07	31	30	-6	SE	5	b	*	37	29		
	Berlin ...	30.37	31	ESE	1	b	30.42	+10	24	23	-11	ESE	4	b	*	37	23		
	Wiesbaden ...	*	*	*	*	*	30.14	+05	28	27	-2	E	2	b	*	39	28		
	Munich ...	29.99	25	E	6	b	30.04	00	20	19	-6	E	5	b	*	34	18		
	The Helder ...	30.05	34	ESE	5	b	30.13	+07	29	28	-1	ESE	3	b	3	37	28		
	Brussels ...	*	*	*	*	*	30.04	+15	29	28	-2	E	3	b	*	41	28		
	Cape Gris Nez...	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*		
	Paris ...	29.75	43	NE	3	bc	29.95	+20	32	30	-7	ESE	1	b	*	52	31		
	Brest ...	29.76	55	20	0	o	29.74	+07	55	53	+2	S	7	o	5	55	43	0.24	
PENINSULA.	Lorient ...	29.72	54	WSW	4	b	29.76	+07	55	51	+3	S	5	o	5	59	48		
	Rochefort ...	29.80	56	NW	5	bc	29.93	+20	58	52	+1	SSW	4	b	2	57	46	0.08	
	Belfort ...	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*		
	Lyons ...	29.78	45	SSE	1	o	29.91	+13	41	41	-3	SSE	1	c	*	57	40	0.59	
	Nice ...	29.73	50	ESE	8	o	29.76	-17	48	41	-1	NE	7	c	3	55	45	0.47	
	Perpignan ...	29.80	48	NW	5	o	29.91	+25	53	49	-1	NW	4	o	*	60	47	0.12	
	Biarritz ...	29.84	58	WSW	11	r	29.94	+21	50	46	-1	WSW	4	o	5	63	48	0.95	
PENINSULA.	Corunna ...	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*		
	Lisbon ...	30.12	59	W	5	o	30.05	-02	61	58	+8	SSW	7	o	4	61	?	0.04	

WEATHER CHARTS

for 8 a.m. on Saturday, 10th November

1888.

BAROMETER, WIND & SEA.

(Explanation of Map)

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

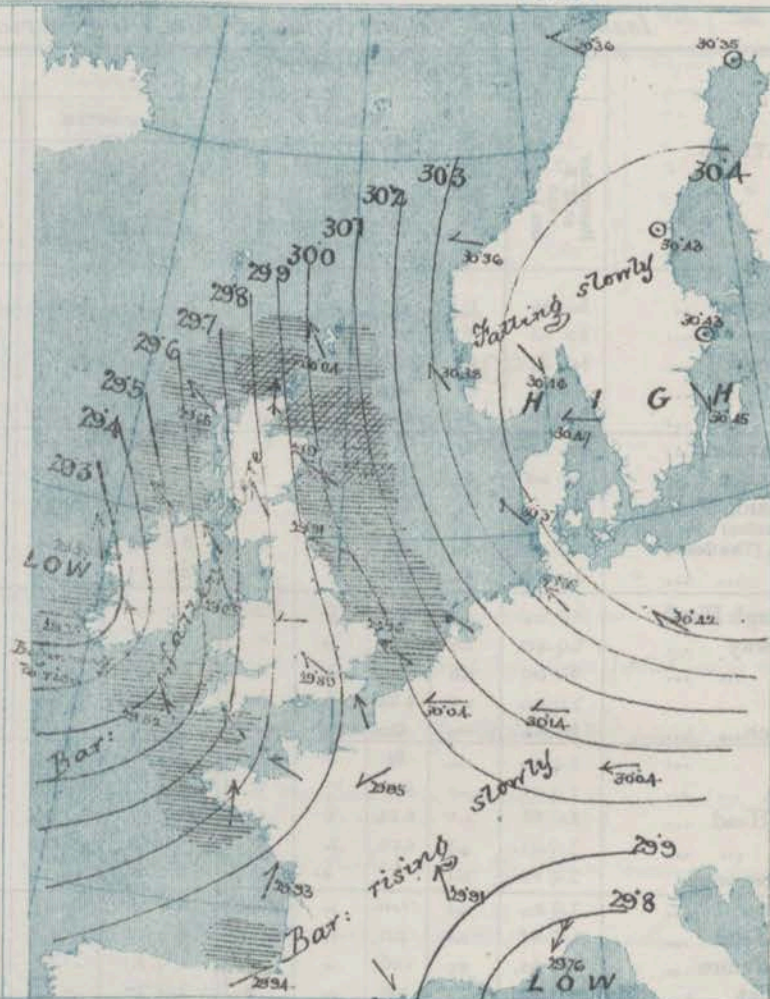
Sea Disturbance — where considerable is shown thus.

— Rough — High.

MEAN HEIGHT of the BAROMETER

at 8 a.m. for the month of 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	29.898
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.

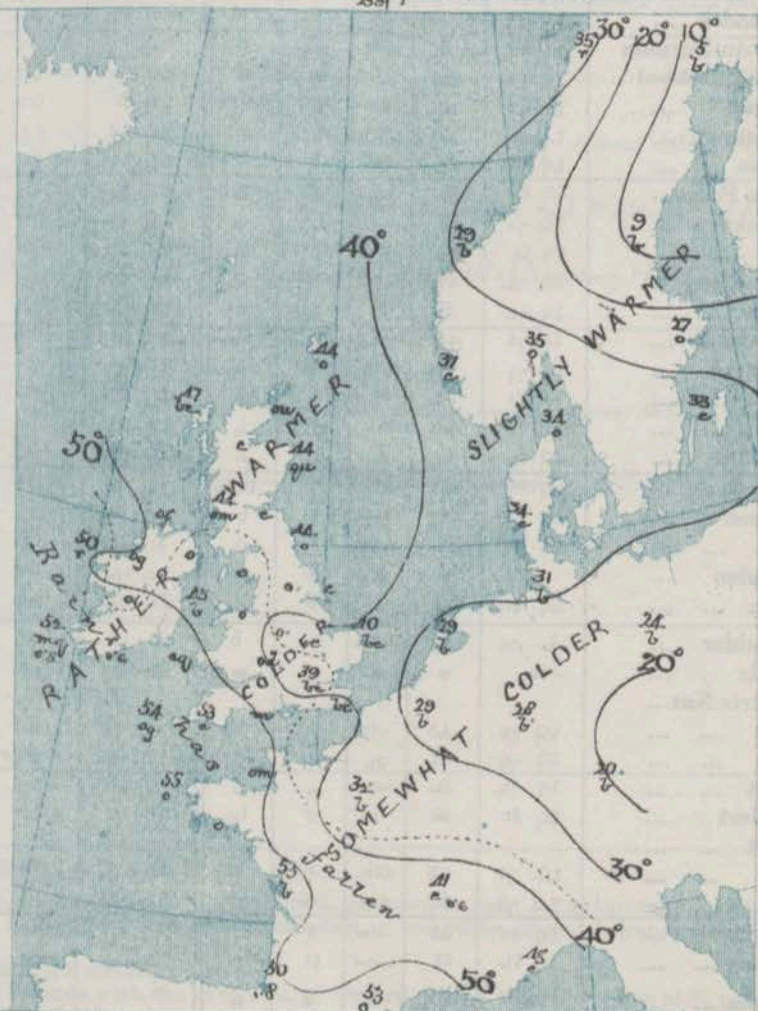
Rainfall — A dotted line separates the districts in which rain has fallen from those where there has been none. Falls of 0.5 in. or more, are quoted in figures.

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	40.3	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	4.56
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	4.24
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	42.0	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	<p>Highest, 30.3 ins. to 30.5 ins. in an anticyclone lying over Scandinavia, the Baltic, and North Germany; also lowest, 29.5 ins. and less, in a depression lying over the coast of Ireland, 29.8 ins. and less, in another over Gulf of Genoa. Gradients steep over our western and northern districts, moderate over the North Sea, slight elsewhere. Barometer falling in Ireland, and beginning to fall again on the coast of Portugal, rising in the east and south.</p>
TEMPERATURE	<p>Highest, 61° at Lisbon, 58° at Girona, 54° at Sicily, 52° at Valencia, 50° at Helmsleet and Hurst Castle. Lowest, 5° at Haparanda, 3° at Helsingfors, 20° at Munich, 24° at Berlin, 23° at Christiania and the Helde, 39° in London. It has rained a little in Ireland and Scotland, fallen over England, France and Germany.</p>
WIND	<p>S² and SW², fresh to strong, over Bay of Biscay — SE², moderate, over North Sea, Holland, and southeast of England. SE², strong to a gale, at our western, northern and north-eastern stations. E², light in Norway. A NE gale prevails in the Riviera.</p>
WEATHER	<p>Fine over the Continent and in the east and south of England. B. and S. and showery on our western and northern coasts, with a continued threatening appearance in the east of Scotland. The rainfall yesterday was confined to the western and northern stations, and was heavy in the southwest of France and south of Ireland.</p>
SEA	<p>Has become moderate in the Channel and over the Bay of Biscay, but is still rough on our coast, north, and east coasts.</p>

PROBABLE CHANGES IN SYSTEM NOW PREVALENT

It is probable that some improvement in the weather will be experienced in the northwest, north, and north-east during the coming twenty-four hours, but as the barometer is again falling at Lisbon the condition cannot be considered as settled.

FORECASTS

For the 24 hours ending at NOON on 11th Nov^r 1888.

DISTRICTS.	FORECASTS.	DISTRICTS.	FORECASTS.
<div> <div> <div>0</div> <div>SCOTLAND NORTH</div> </div> <div> <div>1</div> <div>SCOTLAND EAST</div> </div> <div> <div>2</div> <div>ENGLAND N.E.</div> </div> <div> <div>3</div> <div>ENGLAND EAST</div> </div> <div> <div>4</div> <div>MIDLAND COUNTIES</div> </div> <div> <div>5</div> <div>ENGLAND SOUTH</div> </div> </div>	<div> <div>SE² winds, moderating for a time; showery to fair.</div> <div>SE² and E² winds, moderate and fair at first, less settled later.</div> </div>	<div> <div> <div>6</div> <div>SCOTLAND WEST</div> </div> <div> <div>7</div> <div>ENGLAND N.W.</div> </div> <div> <div>8</div> <div>ENGLAND S.W.</div> </div> <div> <div>9</div> <div>IRELAND NORTH</div> </div> <div> <div>10</div> <div>IRELAND SOUTH</div> </div> </div>	<div> <div>SE² winds, moderating for a time; some showers.</div> <div>Same as Nos 3 to 5</div> <div>Same as Nos 6 and 7.</div> <div>Varying winds, becoming light for a time then SE² again and less fair.</div> <div>The SOUTH CONE is still flying in districts 0 to 2, and 6 to 10.</div> </div>

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

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

YESTERDAY'S 2 P.M. REPORTS.

	Bar.	Dry.	Wet.	Wind.	Wes.	Sea.		Bar.	Dry.	Wet.	Wind.	Wes.	Sea.
Skudeensas ...	30.40	42	36	E 2	6	3	Holyhead ...	29.73	47	46	SSW 4	79 m	4
Sumburgh Head ...	30.14	45	41	SE 5	e	6	Valencia ...	29.50	54	50	SE 6	0 g	5
Stornoway ...	29.82	48	47	SE 5	c	5	Scilly ...	29.59	56	53	SE 6	6	5
Aberdeen ...	30.06	45	41	SE 7	cg q	7	Jersey ...	29.67	55	53	SSW 1	0	1
Shields ...	29.94	47	43	ESE 6	c	6	Dungeness ...	29.74	45	43	ESE 4	m	3
Ardrossan ...	29.83	44	41	ENE 3	0	1	London ...	29.79	45	43	ESE 4	0	*
Malin Head ...	29.68	47	47	SE 5	0	5	Yarmouth ...	29.89	44	41	ESE 6	6	6
Mullaghmore ...	29.63	51	49	E 5	om	4	Rochefort ...	29.75	57	53	WNW 5	0	2
Belmullet ...	29.56	54	49	ESE 4	c	*							

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

The reports for yesterday morning showed that pressure was highest, 30.4 in. and upwards, in an anticyclone lying over the southern half of Scandinavia, and lowest, 29.5 in. and less, in a depression lying off the southwest of Ireland. A well defined secondary disturbance, with readings below 29.7 in. was, however, reported over the valley of the Garonne, while areas of relatively low readings, 29.3 in. and less, existed respectively in the neighbourhood of the White and Black Seas. Very strong SE winds continued to prevail over the British Islands and the North Sea, and S² or SE³ gales in the south of France. Over the Baltic and Central Europe, however, the wind was moderate from the NE¹⁰⁰ while in Spain it was chiefly SW². The weather was fair in Scandinavia, Denmark, and the Netherlands, as well as over Southern Europe, but cloudy and unsettled elsewhere, with rain in many parts of our Islands and France, snow in Russia, and a thunderstorm at Perpignan. Temperature had risen a little over the United Kingdom, but fallen at most of the Continental stations; readings ranged from 60° and upwards in Algeria and some parts of Spain and Southern Italy to several degrees below the freezing point over Northern and Central Europe. The highest individual readings were 67° at Laiballe and Fay, 66° at Algiers, 63° at Oran, 62° at Palma, 61° at Cagliari, and 60° at Nemours; the lowest were 9° at Havana, 10° at Kiev, 12° at Uleaborg, 15° at Kharkov, 18° at Hermand, Kuopio, Moscow, and Odessa, and 19° at Hong and Nicolaieff.

In the course of the day very little change occurred in the distribution of pressure, but the wind increased to a gale from the S² in the north of Scotland, while a violent SW² gale was experienced 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).

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DAILY WEATHER REPORT.

for Sunday 11th Nov^r 1888.
Issued by the Meteorological Office, 116, Victoria Street, London. R. H. SCOTT, Secretary.

		† YESTERDAY EVENING.					8 A.M. TO DAY.										PAST 24 HOURS.		
STATIONS.		Barometer at 32° F. and Sea Level.	Temp. in Shade.	WIND.		Weather.	BAROMETER.		SHADE TEMP.		WIND.		Weather.	Sea. (0 to 3.)	SHADE TEMP.		Amount of Rainfall.		
				Dirco.	Force. (0 to 12.)		Reading at 32° F. and Sea Level.	Difference from 8 a.m. yesterday.	Dry.	Wet.	Difference from 8 a.m. yesterday.	Dirco.			Force. (0 to 12.)	Max.		Min.	
SCANDINAVIA.	Haparanda ..	30.35	9	Z	0	b	30.36	+ .04	2	1	—	Z	0	b	*	14	?	—	
	Hernösand ...	30.39	17	Z	0	b	30.44	+ .01	10	9	+	Z	0	b	*	25	7	—	
	Stockholm ...	30.38	23	NW	2	o	30.37	— .05	21	20	—	Z	0	f	*	28	19	—	
	Wisby ...	30.38	33	W	4	o	30.26	— .09	29	28	—	N	4	o	*	?	?	—	
	Bodö ...	30.35	37	ESE	2	r	30.30	— .06	33	31	—	E	2	b	1	37	32	0.08	
	Christiansund...	30.31	30	ESE	1	b	30.19	— .17	27	25	—	ESE	1	b	1	32	25	—	
	Skudesnaes ...	30.28	39	SE	6	b	30.17	— .21	?	?	?	ESE	6	b	4	41	?	—	
	Christiania Fjord (Farder)	30.41	36	NNW	2	o	30.38	— .05	31	30	—	NNW	4	o	1	36	28	—	
	Skagen (The Scaw)	30.35	38	SSE	1	o	30.34	— .13	37	34	+	S	1	o	1	39	34	—	
Fanö ...	30.31	30	SE	5	b	30.27	— .10	30	29	—	SE	4	b	*	37	27	—		
BRITISH ISLANDS.	Sumburgh Head	29.93	44	SSE	6	o	29.78	— .26	45	42	+	SSE	7	o	8	45	41	—	
	Stornoway ...	29.57	49	SE	7	o	29.52	— .13	48	48	+	SE	6	r	6	50	45	0.02	
	Wick ...	29.80	46	S	9	o	29.70	— .20	46	44	—	S	6	ow	8	46	43	—	
	Nairn ...	29.65	45	S	9	b	29.66	— .16	43	42	—	SSW	3	b	2	47	41	—	
	Aberdeen...	29.83	45	SE	8	o	29.77	— .20	45	43	+	SSE	5	og	7	46	44	0.16	
	Leith ...	29.66	44	SE	5	o	29.72	— .12	42	40	—	SE	1	c	*	46	38	0.02	
	Shields ...	29.60	44	SE	5	c	29.77	— .14	40	40	—	SSE	3	o	6	46	38	0.01	
	Spurn Head ...	29.79	43	SE	7	b	29.84	— .10	43	42	—	SSE	4	o	4	45	40	0.04	
	York ...	29.80	41	E	3	b	29.84	— .08	40	40	—	ESE	1	f	*	45	37	0.19	
	Loughborough	29.79	40	ESE	3	o	29.88	— .05	42	42	—	SE	1	om	*	46	38	0.29	
GERMANY.	Ardrossar ...	29.58	45	E	5	o	29.70	— .05	48	47	+	SSE	3	c	2	48	42	0.18	
	Malin Head ...	29.33	46	SE	7	o	29.57	— .03	43	42	—	SSE	4	c	3	47	42	0.11	
	Mullaghmore...	29.34	48	Z	0	a	29.57	— .16	47	44	—	SSE	4	c	3	51	43	0.54	
	Belmullet ...	29.33	48	SW	1	o	29.52	— .25	47	45	—	S	5	r	*	51	44	0.19	
	Donaghadee ...	29.47	48	SE	7	r	29.68	— .01	43	43	—	SSW	3	b	4	49	43	0.52	
	Barrow-in-Furness	29.64	40	SE	5	o	29.76	— .03	43	43	+	SE	5	f	*	45	40	0.52	
	Liverpool (Bidston)	29.62	41	ESE	6	o	29.78	— .01	40	40	—	SSE	2	af	2	45	39	0.12	
	Holyhead ...	29.48	50	SE	5	r	29.72	— .04	49	48	+	S	4	b	4	51	44	0.37	
	Parsonstown ...	29.50	48	SE	1	o	29.63	— .20	42	41	—	SE	2	c	*	52	40	0.66	
	Valencia ...	29.44	50	SW	3	o	29.58	— .38	52	49	—	SSE	3	o	4	57	43	0.17	
	Roche's Point...	29.44	50	WSW	4	r	29.65	— .29	52	50	—	SSW	4	b	4	54	45	0.80	
	Pembroke ...	29.50	51	SSW	3	r	29.75	— .14	52	49	+	S	3	b	3	53	50	0.43	
	Scilly ...	29.54	52	W	6	c	29.74	— .22	52	50	—	SSW	5	b	6	54	49	0.54	
	Prawle Point ...	29.59	54	SE	7	r	29.84	— .10	57	49	—	W	1	b	3	54	45	0.11	
	Jersey ...	29.71	53	SE	7	o	29.86	— .04	48	47	—	W	2	b	2	55	45	0.38	
FRANCE & NETHERLANDS.	Hurst Castle ...	29.71	50	ESE	5	r	29.83	— .02	49	49	—	SW	1	f	3	58	47	0.62	
	Dungeness ...	29.87	42	SSE	5	o	29.84	— .07	46	46	+	S	5	r	5	46	41	0.31	
	London ...	29.34	42	SE	2	o	29.82	— .07	48	47	+	SE	1	of	*	49	39	0.20	
	Oxford ...	29.73	42	SE	4	o	29.84	— .03	44	44	+	Z	0	f	*	46	40	0.15	
	Cambridge ...	29.84	40	SE	2	o	29.85	— .05	44	44	+	Z	0	o	*	49	38	0.33	
	Yarmouth ...	29.91	43	SE	7	b	29.89	— .07	44	44	+	SSE	5	og	5	44	38	0.03	
	Cuxhaven ...	30.30	33	E	5	b	30.25	— .05	29	28	—	SSE	3	b	*	33	26	—	
	Berlin ...	30.42	28	ESE	4	b	30.39	— .03	22	21	—	ESE	2	b	*	32	21	—	
	Wiesbaden ...	*	*	*	*	*	30.21	— .07	30	27	+	E	4	b	*	37	28	—	
	Munich ...	30.15	27	E	5	b	30.21	— .17	18	17	—	SE	3	m	*	32	14	—	
	PENINSULA.	The Helder ...	30.08	32	ESE	3	b	30.04	— .09	30	28	+	SE	3	b	2	36	28	—
		Brassé's ...	*	*	*	*	*	30.01	— .03	36	33	+	SE	3	o	*	40	30	—
		Cape Gris Nez...	29.93	35	SE	3	c	29.84	— .02	40	?	?	S	4	r	2	43	34	0.12
		Paris ...	29.96	35	ESE	3	b	29.93	— .02	44	43	+	SE	4	r	*	44	?	—
		Brest ...	29.69	56	W	4	o	29.86	— .12	54	50	—	WSW	1	b	5	57	41	0.67
Lorient ...		29.67	55	W	7	o	29.86	— .10	57	57	—	ESE	3	m	5	57	50	0.51	
Rochefort ...		29.89	55	SSW	5	r	29.95	— .02	53	55	+	S	4	o	2	64	50	0.16	
Belfort ...		*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	
Lyons ...		30.01	42	S	1	o	30.07	— .16	42	42	+	ESE	1	c	*	46	40	—	
Nice ...		?	49	SW	3	b	30.11	— .35	47	45	—	SW	5	o	4	57	45	—	
Perpignan ...		29.99	50	SW	1	b	30.03	— .12	46	44	—	SW	1	r	*	64	42	—	
Biarritz ...		29.86	61	SSE	3	o	29.80	— .14	59	53	+	S	5	r	3	68	?	0.04	
Corunna ...		*	*	*	*	*	29.87	— .07	57	53	—	SW	4	o	3	64	52	0.32	
Lisbon ...		30.02	64	SSW	7	o	29.97	— .08	64	63	+	SSW	7	o	5	65	63	0.20	

For Explanation of Columns, see p. 4.

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

WEATHER CHARTS

for 8 a.m. on

Sunday, 11th November

1888.

BAROMETER, WIND & SEA.

(Explanation of Map)

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

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

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

Sea Disturbance—where considerable is shown thus.

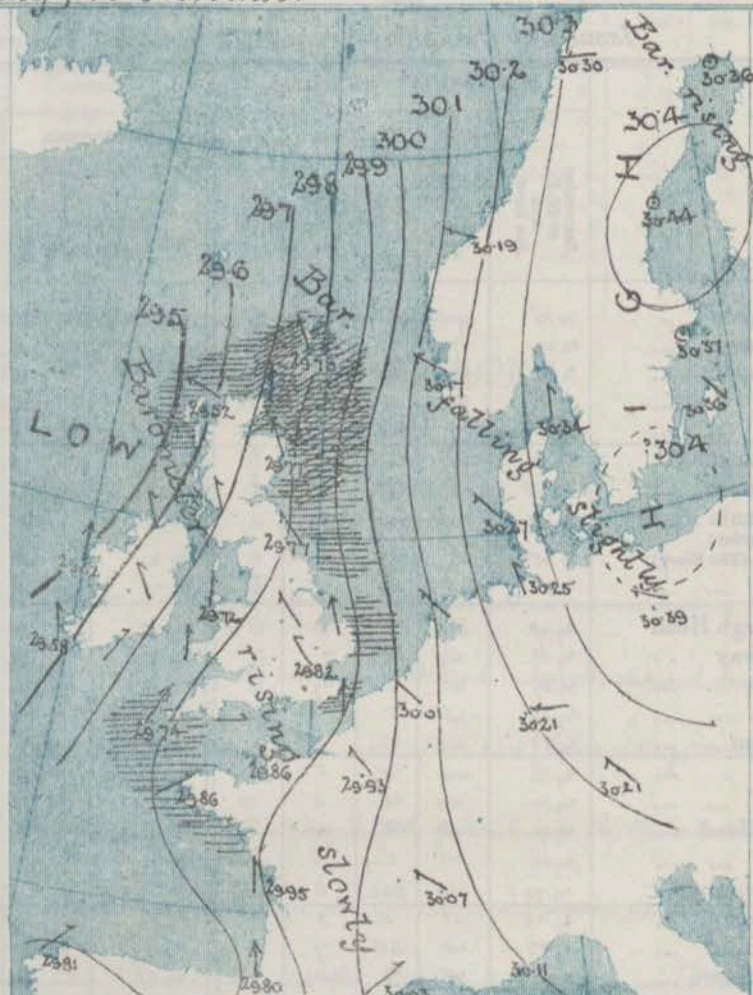
— Rough. — High.

MEAN HEIGHT of the BAROMETER

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

During the 15 Years 1871—1885.

STATIONS	MEAN READINGS.
	in.
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	29.898
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.

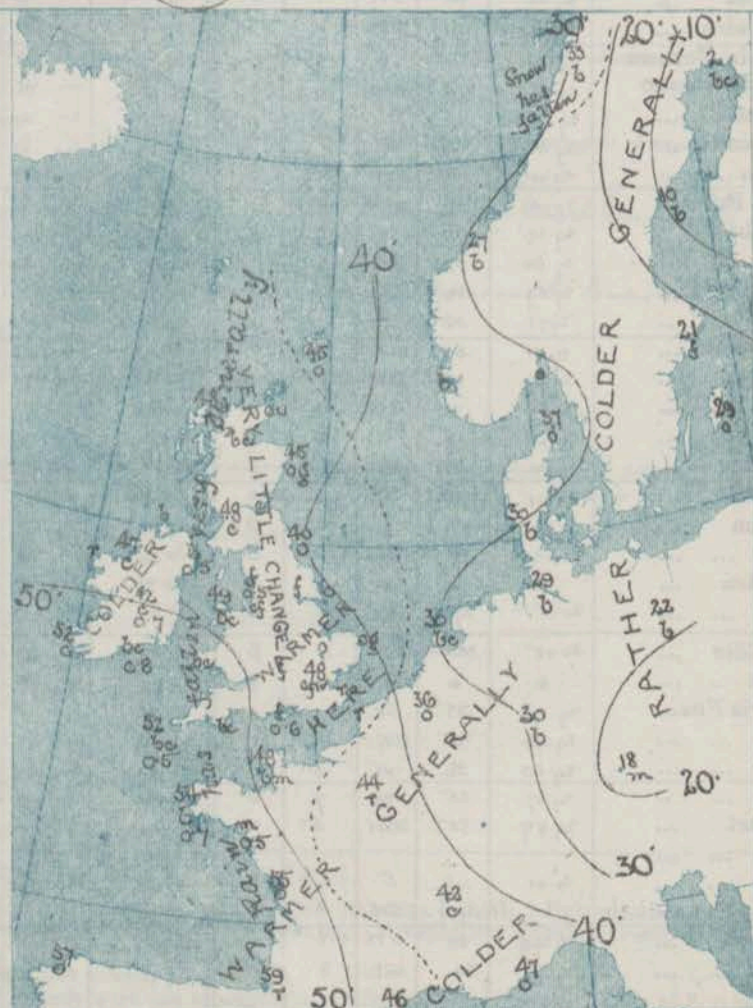
Rainfall—A dotted line separates the districts in which rain has fallen from those where there has been none. Falls of 0.5 in. or more, are quoted in figures.

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	4.00
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	35.1	41.8	40.2	2.63
York	47.7	35.1	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	3.96
Scilly	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	2.99
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 1866—85



GENERAL SITUATION AT 8 A.M.

PRESSURE

Highest, 30.44 in. at Helsingfors, 30.3 in. and upwards over the whole of Sweden, the Baltic, and North Germany.
 Lowest, 29.5 in. and less, in a depression lying to the westward of Scotland all disturbance with readings below 29.8 in. exists over the southern part of the Bay of Biscay.
 Gradients rather steep over the North Sea and our northern coasts, but decreasing generally.
 Barometer rising over the greater part of Ireland, England and France, but falling elsewhere.

TEMPERATURE

Highest, 64° at Lisbon, 55° at Bismarck, 57° at Corunna, 55° at Rochefort, 54° at Brest, and 52° at several of our southwestern stations.
 Lowest, 2° at Haparanda, 10° at Helsingfors, 18° at Munich, 21° at Stockholm, 22° at Berlin, and 27° at Christchurch.

WIND

Chiefly E. or S.E.; light to fresh in force generally, but strong in the north of Scotland.
 S.W. in Spain and the south of France; calm at the Swedish stations.

WEATHER

Fine in Scandinavia, Denmark, Germany, and the west of our islands.
 Cloudy or overcast elsewhere, with fog over England, and rain at several of the French stations.
 Heavy rain fell yesterday in the west of our islands, the largest amounts being 0.8 in. at Rochefort, 0.7 in. at Brest, and 0.6 in. at Helsingfors.

SEA

Very high off the north of Scotland, and rough on our east coasts as well as at the mouth of the Channel and in the Bay of Biscay.

PROBABLE CHANGES IN SYSTEM NOW PREVALENT

The depression which lay off the west of Ireland yesterday is moving northwards but fresh disturbances are apparently advancing from the S.W. Unsettled weather seems likely to continue generally.

FORECASTS

for the 24 hours ending at NOON on 12TH November 1888.

DISTRICTS.

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

FORECASTS.

NONE ISSUED

DISTRICTS.

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

WARNINGS

FORECASTS.

NONE ISSUED.

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

YESTERDAY'S 2 P.M. REPORTS.

	Bar.	Dry.	Wet.	Wind.	Woa.	Sea.		Bar.	Dry.	Wet.	Wind.	Woa.	Sea.	
Skudesnaes ...	30.34	41	36	SE	6	bc	Holyhead ...	29.57	49	46	SE	4	0	4
Samburgh Head ...	29.98	44	41	SSE	6	0	Valencia ...	29.37	56	52	WSW	3	bc	3
Stornoway ...	29.57	50	48	SE	6	0	Scilly ...	29.47	54	54	WSW	4	0	6
Aberdeen ...	29.89	45	41	SE	8	agg	Jersey ...	29.74	52	51	SE	6	0	5
Shields ...	29.85	45	42	SE	4	0	Dungeness ...	29.90	44	40	SSE	5	bc	4
Ardrossan ...	29.64	45	44	E	4	0	London ...	29.85	46	42	E	4	bc	*
Malin Head ...	29.34	47	47	SE	7	0	Yarmouth ...	29.94	42	39	SE	6	6	6
Mullaghmore ...	29.26	50	49	SE	8	0	Rocheport ...	29.91	59	57	SSW	5	bc	2
Belmullet ...	29.27	50	49	SW	2	0								

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

The Continental Information will appear in Tuesday's Report.

EXPLANATION OF COLUMNS GIVEN ON PAGE 1.

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

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

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

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

DAILY WEATHER REPORT.

for Monday, 12th November

1888.

Issued by the Meteorological Office, 116, Victoria Street, London. R. H. SCOTT, Secretary.

STATIONS.		† YESTERDAY EVENING.					8 A.M. TO DAY.										PAST 24 HOURS.		
		Barometer at 32° F. and Sea Level.	Temp. in Shade.	WIND.		Weather.	BAROMETER.		SHADE TEMP.			WIND.		Sea. (0 to 2.)	SHADE TEMP.		Amount of Rain.		
				Dir.	Force. (0 to 12.)		Reading at 32° F. and Sea Level.	Difference from 8 a.m. yesterday.	Dry.	Wet.	Difference from 8 a.m. yesterday.	Dir.	Force. (0 to 12.)		Weather.	Max.		Min.	
SCANDINAVIA.	Haparanda ..	30.36	4	2	0	bc	30.31	- .05	6	6	+ .4	N	2	f	*	14	1	-	
	Hernösand ...	30.49	13	2	0	o	30.48	+ .04	21	21	+ .11	2	0	o	*	27	9	-	
	Stockholm ...	30.44	26	2	0	o	30.49	+ .12	27	27	+ .8	2	0	o	*	36	28	-	
	Wisby ...	30.40	35	NE	4	o	30.43	+ .07	33	32	+ .4	ENE	4	o	*	36	28	-	
	Bodö ...	30.23	32	ENE	2	b	30.29	- .01	30	28	- .3	ENE	2	b	1	34	27	-	
	Christiansund...	30.19	33	ENE	1	b	30.25	+ .06	28	27	+ .1	2	0	b	1	34	25	-	
	Skudesnaes ...	30.19	44	SE	6	bc	30.25	+ .08	37	33	?	SE	6	c	5	48	37	-	
	Christiania Fjord (Fjord)	30.40	28	NNE	4	o	30.46	+ .08	28	27	- .3	NE	4	o	1	32	21	-	
	Skagen (The Scaw)	30.36	36	SE	2	o	30.39	+ .05	33	30	- .4	SE	2	o	1	39	32	-	
	Fanö ...	30.22	30	ENE	5	b	30.21	- .06	31	30	+ .1	ENE	5	b	*	39	22	-	
BRITISH ISLANDS.	Sumburgh Head	29.88	45	SSE	5	o	29.96	+ .18	45	43	0	SSE	4	o	7	46	43	0.02	
	Stornoway ...	29.70	50	S	0	bc	29.69	+ .17	44	43	- .4	SE	3	c	4	50	40	0.02	
	Wick ...	29.84	46	S	3	b	29.84	+ .14	47	46	+ .1	S	7	om	7	48	43	0.02	
	Nairn ...	29.80	45	2	0	b	29.79	+ .13	41	39	- .2	2	0	c	1	51	37	-	
	Aberdeen...	29.88	46	SE	2	o	29.88	+ .11	45	44	0	SE	4	ogm	6	47	45	0.02	
	Leith ...	29.82	46	SSE	1	b	29.78	+ .06	46	45	+ .4	SSE	2	o	*	49	34	-	
	Shields ...	29.87	42	ENE	1	cm	29.82	+ .05	44	44	+ .4	S	1	f	4	44	39	-	
	Spurn Head ...	29.85	45	2	0	o	29.82	- .02	46	44	+ .3	SSE	2	c	4	46	42	0.01	
	York ...	29.87	44	SE	1	o	29.83	- .01	44	42	+ .4	SE	1	f	*	55	39	-	
	Loughborough	29.87	44	SSW	1	c	29.81	- .02	45	42	+ .3	SSE	3	ogm	*	48	42	-	
GERMANY.	Ardrossan ...	29.78	49	SE	2	b	29.69	- .01	42	41	- .6	NE	3	om	1	52	37	-	
	Malin Head ...	29.69	46	SSE	3	bc	29.50	- .07	45	43	+ .2	SE	8	om	6	50	43	-	
	Mullaghmore ...	29.53	50	SSE	4	c	29.35	- .22	48	46	+ .1	SSE	8	org	6	53	46	0.06	
	Belmullet ...	29.55	47	SE	4	bc	29.22	- .30	48	48	+ .1	SSE	9	r	*	52	46	0.10	
	Donaghadee ...	29.77	49	SSE	3	c	29.62	- .06	48	46	+ .5	SE	5	o	3	54	49	0.01	
	Barrow-in-Furness	29.83	43	ENE	3	bc	29.74	- .02	42	41	- .1	E	3	o	*	48	38	-	
	Liverpool (Bidston)	29.83	45	SSE	3	o	29.70	- .08	45	43	+ .5	SSE	5	o	4	48	40	-	
	Holyhead ...	29.78	48	SE	1	b	29.58	- .14	47	44	- .2	E	3	ogm	2	54	42	-	
	Parsonstown ...	29.64	49	SE	1	b	29.33	- .30	50	49	+ .8	SSE	3	o	*	50	41	0.02	
	Valencia ...	29.47	54	ENE	4	o	29.16	- .42	52	50	?	SE	6	r	6	55	45	0.31	
FRANCE & NETHERLANDS.	Roche's Point...	29.58	53	SSE	5	bc	29.26	- .39	54	53	+ .2	S	7	o	5	55	51	0.53	
	Pembroke ...	29.74	52	S	3	b	29.45	- .30	51	50	- .1	SSE	7	orgm	6	54	48	0.01	
	Seilly ...	29.67	54	SSE	6	bc	29.37	- .37	56	55	+ .4	SSE	6	opd	5	58	51	0.04	
	Prawle Point ...	29.80	51	SSE	3	c	29.54	- .30	54	54	+ .3	SSE	6	o	6	56	49	-	
	Jersey ...	29.84	52	SE	2	bm	29.60	- .26	55	53	+ .7	SSE	5	ogm	4	58	47	-	
	Hurst Castle ...	29.85	48	2	0	f	29.67	- .16	52	52	+ .3	SSE	4	cg	3	52	45	0.01	
	Dungeness ...	29.85	51	S	3	o	29.77	- .07	51	50	+ .5	SE	4	o	3	51	46	0.02	
	London ...	29.87	50	2	0	of	29.78	- .04	47	46	- .1	ENE	1	of	*	52	45	-	
	Oxford ...	29.87	42	2	0	f	29.75	- .09	47	46	+ .3	SSE	2	og	*	50	39	-	
	Cambridge ...	29.88	48	SE	1	o	29.81	- .04	47	46	+ .3	E	1	o	*	49	42	-	
PENIN- SULA.	Yarmouth ...	29.88	46	S	3	cd	29.86	- .03	46	46	+ .2	SE	3	ogm	4	47	38	0.22	
	Cuxhaven ...	30.19	34	SE	5	b	30.13	- .12	30	29	+ .1	SSE	6	b	*	37	28	-	
	Berlin ...	30.31	28	ENE	1	b	30.29	- .10	28	27	+ .6	ENE	3	b	*	34	?	-	
	Wiesbaden ...	*	*	*	*	*	30.08	- .13	35	33	+ .5	E	1	o	*	37	30	-	
	Munich ...	30.16	23	NE	1	b	30.10	- .11	21	21	+ .3	SW	1	f	*	34	16	-	
	The Helder ...	29.99	35	SE	4	r	29.95	- .09	34	32	+ .4	SSE	1	o	2	37	30	0.32	
	Brussels ...	*	*	*	*	*	29.90	- .11	43	42	+ .7	SSE	3	o	*	46	?	0.28	
	Cape Gris Nez...	29.89	44	S	4	c	29.81	- .08	46	46	?	SE	4	o	2	48	41	0.16	
	Paris ...	29.93	41	SSE	3	o	29.84	- .09	?	48	?	SE	3	o	*	50	41	0.20	
	Brest ...	29.79	54	SE	5	o	29.82	- .34	57	54	+ .3	S	5	o	5	57	41	0.12	
PENIN- SULA.	Lorient ...	29.80	54	SE	5	o	29.56	- .30	57	57	+ .6	SE	3	o	5	59	48	-	
	Rochefort ...	29.89	55	S	5	o	29.72	- .23	57	56	+ .2	SE	7	o	2	63	50	-	
	Belfort ...	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	-	
	Lyons ...	30.04	49	S	3	r	29.97	- .10	50	46	+ .8	SSW	4	o	*	53	48	0.04	
	Nice ...	30.20	47	ENE	3	o	30.17	+ .06	43	43	- .4	ENE	3	m	?	?	?	-	
PENIN- SULA.	Perpignan ...	29.99	56	E	1	o	29.88	- .15	53	53	+ .7	2	o	o	*	62	?	-	
	Biarritz ...	29.82	60	SSE	4	o	29.69	- .11	64	57	+ .5	E	5	o	8	?	57	0.16	
	Corunna ...	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	-	
Lisbon ...	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	-		

For Explanation of Columns, see p. 4.

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

WEATHER CHARTS

for 8 a.m. on

Monday, 12th NOVEMBER.

1888.

BAROMETER, WIND & SEA.

(Explanation of Map)

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

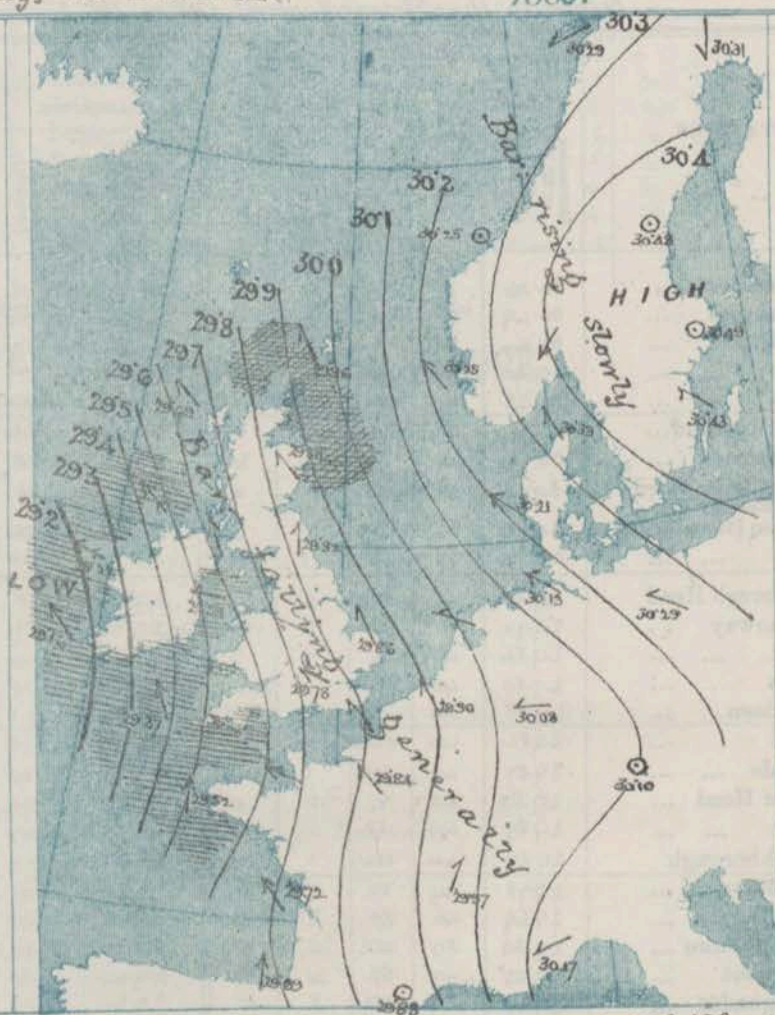
Sea Disturbance — where considerable, is shown thus.

— = Rough. — = High.

MEAN HEIGHT of the BAROMETER

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

STATIONS.	MEAN READINGS.
	in.
Sumburgh Head	29.687
Stornoway	29.707
Wick	29.726
Nairn	29.743
Aberdeen	29.756
Leith	29.793
Shields	29.816
York	29.844
Loughborough	29.876
Ardrossan	29.795
Donaghadee	29.811
Holyhead	29.885
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.

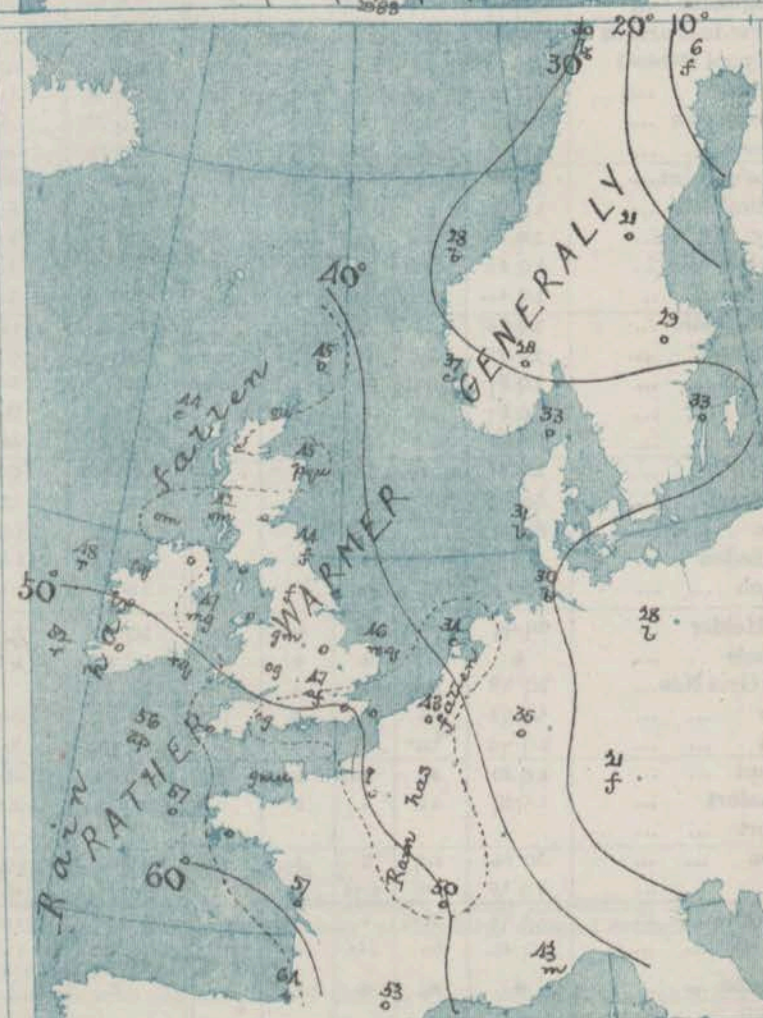
MEANS OF TEMPERATURE IN SHADE.

AND RAINFALL.

for the month of November.

STATIONS	TEMPERATURE.				RAINFALL. (Inches.)
	Daily Max	Daily Min.	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	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	4.56
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	4.24
Hurst Castle	50.5	40.3	44.6	43.6	2.93
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 22 years 1866—85.



GENERAL SITUATION AT 8 A.M.

PRESSURE

Highest, 30.4 in: and upwards, in a large anticyclone lying over Sweden.
 Lowest, 29.2 in: and less, in a depression lying off the southwest of Ireland.
 Gradients rather steep over our Islands, but moderate or slight elsewhere.
 Barometer falling at all but the Scandinavian stations—quickly in the extreme west and southwest.

TEMPERATURE

Highest, 64° at Birniz, 57° at Thur. Coriout and Rochefort, 56° at Scilly, 55° at Jersey, and 54° at Rochefort and Cap de Breton.
 Lowest, 6° at Haparanda, 21° at Helsingfors and Munich, 18° at Christiansund, 17° at Berlin, and 13° at Stockholm.

WIND

Chiefly SE², strong to gale in force on our western and extreme northern coasts, but light to fresh elsewhere.
 Calms are reported at some of the Scandinavian stations.

WEATHER

Fine in the west of Norway, the south of Denmark, and North Germany.
 Cloudy or overcast elsewhere, with rain at many of our western stations and fog in the north of England.
 Slight rain fell yesterday in several parts of the United Kingdom, and a dense black fog drifted over London.

SEA

High off the north of Scotland, and rough on our west and southwest coasts, but moderate or slight elsewhere.

PROBABLE CHANGES IN SYSTEM NOW PREVALENT

The changes in pressure which are now in progress are likely to lead to a further increase in the steepness of the gradient over our Islands, and the gale in the west will probably extend to our north and north-east coasts.

FORECASTS

for the 24 hours ending at NOON on 15th Nov^r 1888.

DISTRICTS.

FORECASTS.

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

S² and SE² winds, increasing to a gale; cloudy, some showers.
 SE² winds, freshening considerably; drizzle, some rain.

DISTRICTS.

FORECASTS.

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

E² and SE² winds, increasing to a gale; drizzle, some rain.
 SE² strong winds and gales; drizzle, squally, some rain.

WARNINGS

The SOUTH CONE was hoisted last evening in districts 0 to 2 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.

	Bar.	Dry.	Wet.	Wind.	Wes.	Sea.		Bar.	Dry.	Wet.	Wind.	Wes.	Sea.
Skudesnaes ...	30.56	47	1.6	SE 8	c	5	Holyhead ...	29.77	52	50	SSW 4	6c	4-
Sumburgh Head ...							Valencia ...						
Stornoway ...	29.66	50	4.9	S 6	6c	6	Scilly ...						
Aberdeen ...							Jersey ...	29.85	58	58	SSW 3	6	3
Shields ...							Dungeness ...	29.85	51	50	S 4	0	3
Ardrossan ...							London ...						
Malin Head ...	29.70	49	1.6	SSW 3	6	2	Yarmouth ...						
Mullaghmore ...							Rocheport ...	29.91	56	55	SSW 5	6	2
Belmullet ...	29.58	52	4.9	S 3	0	*							

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

The reports for yesterday morning showed that the depressions which had prevailed on the Atlantic coasts of Europe, and over the Mediterranean were all passing off—the former in a northerly direction, towards the Farø Isles, the latter in a southeasterly direction towards Brats and Cyprus. The high-pressure area over northern and central Europe showed no signs of giving way, and was united by means of a broad belt lying over the western Mediterranean, with a second high-pressure system lying over northern Africa. To the westward of the high-pressure system readings decreased in value to about 29.6 ins. in the southwest of Ireland, and to 29.5 ins. in the Hebrides, while to the southwestward they decreased to 29.9 ins. and less at Malta and Brindisi. The wind over northwestern Europe had veered considerably to the S.W., and decreased rapidly in force over all but the extreme northern parts of the British Islands, and a similar reduction in the strength of the N.W. wind had occurred in the south of France; over Italy and the Adriatic however, strong N.W. breezes were reported. The weather had improved in most places; the heavy rain in the south of France had ceased; over the United Kingdom the thermometer had risen decidedly, and in many places the weather (after sharp showers) was inclined to clear up. Temperature ranged from 60° and more over southern parts of the Mediterranean, and from 50° and more in the southwest of the British Islands, to much below the freezing point over Russia, the Baltic and central Europe.

The highest individual values were 64° at Palma and Oran, 63° at Sfax and Malta, 60° at Barcelona, 56° at Sanghaire, 55° at Rochefort and 52° at Scilly and Valencia; the lowest were 2° at Naparanda, 9° at Hernisand, 12° at Uleaborg, 17° at Hermanstadt, 18° at Tharkov, Nicolaioff and Munich, 19° at Breslaw, 22° at Berlin, 26° at Groningen, and 28° at Brussels.

Later on a dense black fog prevailed in London; and a fresh fall of the barometer at Valencia, with increasing S.E. winds, pointed to the advance of new disturbances towards our southwest coast and the Bay of Biscay.

SUMMARY OF CHANGES IN THE WEATHER OVER THE BRITISH ISLANDS AND THEIR NEIGHBOURHOOD FROM THE 4TH TO THE 10TH NOVEMBER 1888

The atmospheric conditions of the past week have been of a very decided type. There has been a well-marked high-pressure area lying continuously over Scandinavia, the Baltic and North Germany, and occasionally a second (similar) system has appeared over the southwestern parts of the Spanish Peninsula. Simultaneously there have been depressions off our southwestern coasts, and over the Bay of Biscay, spreading in the form of a 'hollow' over the Channel and north of France, and on one occasion (viz on the 9th) a small independent system advanced eastwards over the southwest and south of France. The gradients have been steep over the British Islands and North Sea, and E. and S.E. winds have consequently been strong to a gale in force, and caused very dull, cold weather everywhere, much rain at our southwestern stations, a few flakes of snow in the southeast, and very rough seas on all our coasts. Hard frosts have prevailed over northern, eastern and central Europe at times.

At the close of the week the system of circulation seemed to be breaking up, and there were indications of the temporary prevalence of milder, damper weather, and lighter winds.

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, 13th November 1888.
Issued by the Meteorological Office, 116, Victoria Street, London. R. H. SCOTT, Secretary.

		+ YESTERDAY EVENING.					8 A.M. TO DAY.										PAST 24 HOURS.		
STATIONS.		Barometer at 32° F. and Sea Level.	Temp. in Shade.	WIND.		Weather.	BAROMETER.		SHADE TEMP.			WIND.		Weather.	Sea. (0 to 9.)	SHADE TEMP.		Amount of Rainfall.	
				Dir.	Force. (0 to 12.)		Reading at 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 ..	30.36	10	N	2	b	30.23	- 0.8	4	4	- 2	ENE	2	0	*	10	-6	.	
	Hernösand ...	30.39	15	Z	0	c	30.39	- 0.9	2	2	- 19	Z	0	6	*	23	?	.	
	Stockholm ...	30.50	30	Z	0	0	30.47	- 0.2	32	31	+ 3	Z	0	6	*	32	?	.	
	Wisby ...	30.49	?	ESE	2	0	30.48	+ 0.5	?	32	?	SSE	2	0	*	37	30	.	
	Bodö ...	30.28	30	E	2	b	30.22	- 0.7	31	29	+ 1	E	2	0	1	32	25	.	
	Christiansund...	30.24	31	ESE	2	0	30.15	- 1.0	26	25	- 2	ESE	1	6	1	36	25	.	
	Skudsmoes ...	30.24	36	SSE	2	bc	30.13	- 1.2	41	36	+ 4	SE	8	c	6	?	36	.	
	Christiania Fjord (Fjorder)	30.44	32	NW	4	0	30.39	- 0.7	36	33	+ 8	SE	?	m	2	?	28	.	
	Skagen (The Seaw)	30.37	38	SE	2	0	30.33	- 0.6	38	36	+ 5	SE	3	0	2	39	32	.	
	Fanö ...	30.19	34	SE	6	b	30.13	- 0.8	32	31	+ 1	SE	6	6	*	36	30	.	
BRITISH ISLANDS.	Sumburgh Head	29.92	43	SSE	7	0	29.77	- 1.9	43	40	- 2	SSE	8	0	8	46	42	.	
	Stornoway ...	29.54	49	SE	7	0	29.41	- 2.8	49	49	+ 5	SE	5	0	5	49	41	0.15	
	Wick ...	29.77	46	S	9	0	29.60	- 2.4	46	44	- 1	SSE	9	0	9	47	43	.	
	Nairn ...	29.67	43	E	3	c	29.50	- 2.9	49	45	+ 8	ESE	4	0	2	50	39	.	
	Aberdeen...	29.79	45	SE	7	ogp	29.63	- 2.5	44	44	- 1	SE	8	rgu	7	44	44	0.27	
	Leith ...	29.64	47	SE	4	0	29.48	- 3.0	48	46	+ 2	SE	2	?	*	48	45	0.15	
	Shields ...	29.69	47	ESE	5	0	29.52	- 3.0	46	46	+ 2	ESE	7	?	?	48	36	1.05	
	Spurn Head ...	29.62	47	ESE	7	0	29.54	- 2.8	47	45	+ 1	ESE	8	?	6	49	45	0.25	
	York ...	29.63	47	SE	5	0	29.50	- 3.3	46	45	+ 2	SSE	4	?	*	48	43	0.79	
	Loughborough	29.54	50	SE	5	?	29.43	- 3.8	48	48	+ 3	ESE	3	og	*	51	44	0.44	
GERMANY.	Ardrossan ...	29.51	47	NE	4	om	29.42	- 2.7	49	48	+ 7	Z	0	om	0	49	41	0.31	
	Malin Head ...	29.31	47	SE	7	om	29.32	- 1.8	45	44	0	SSE	4	6m	3	47	39	0.02	
	Mullaghmore ...	29.22	52	SE	7	ogp	29.27	- 0.8	49	46	+ 1	SSE	5	6c	4	53	46	0.15	
	Belmullet ...	29.14	51	SE	6	0	29.17	- 0.5	48	46	0	SE	5	6c	*	54	46	0.09	
	Donaghadee ...	29.44	48	SE	7	?	29.39	- 2.3	48	48	0	S	3	6c	2	49	47	1.23	
	Barrow-in-Furness	29.46	48	E	6	0	29.38	- 3.6	48	48	+ 6	NE	3	om	*	49	41	0.61	
	Liverpool (Bidston)	29.42	49	E	6	?	29.40	- 3.0	50	50	+ 5	ESE	2	0	2	52	45	0.61	
	Holyhead ...	29.37	49	ESE	4	fm	29.38	- 2.0	49	49	+ 2	Z	0	rgm	0	51	47	1.14	
	Parsonstown ...	29.23	52	SE	1	0	29.30	- 0.3	46	44	- 4	SE	2	6c	*	53	44	0.14	
	Valencia ...	29.12	54	SSE	7	cml	29.24	+ 0.8	53	51	+ 1	SSW	3	0	3	54	50	0.09	
FRANCE & NETHERLANDS.	Roche's Point...	29.25	53	S	4	c	29.31	+ 0.5	52	51	- 2	SW	4	cp	4	54	50	0.15	
	Pembroke ...	29.31	51	SE	3	c	29.36	- 0.9	52	50	+ 1	S	2	og	3	53	50	1.05	
	Scilly ...	29.24	54	SSW	3	0	29.37	0.0	52	49	- 4	SW	4	0	6	56	50	0.01	
	Prawle Point...	29.35	52	NW	2	?	29.42	- 1.2	50	50	- 4	SW	2	?	3	55	47	1.20	
	Jersey ...	29.41	57	ESE	6	om	29.49	- 1.1	51	49	- 4	SW	2	olpm	2	57	49	1.10	
	Hurst Castle ...	29.43	54	SE	7	?	29.40	- 2.7	50	50	- 2	SW	7	cp	6	54	47	0.76	
	Dungeness ...	29.61	54	SSE	5	0	29.47	- 3.0	52	50	+ 1	SSE	6	?	5	54	46	0.20	
	London ...	29.56	52	SE	4	rg	29.42	- 3.6	51	49	+ 4	SE	4	0	*	54	46	0.18	
	Oxford ...	29.45	52	SE	3	?	29.37	- 3.8	50	50	+ 3	SE	3	?	*	53	47	0.50	
	Cambridge ...	29.60	49	E	3	?	29.47	- 3.4	49	48	+ 2	SE	2	0	*	52	45	0.21	
PENINSULA.	Yarmouth ...	29.69	47	ESE	6	og	29.55	- 3.1	46	45	0	SE	6	ogp	6	47	44	0.18	
	Cuxhaven ...	30.13	32	ESE	6	c	30.06	- 0.7	30	28	0	SE	6	6	*	35	28	.	
	Berlin ...	30.27	31	SE	3	b	30.28	- 0.1	27	25	- 1	ESE	4	6	*	37	27	.	
	Wiesbaden ...	*	*	*	*	*	29.93	- 1.5	31	29	- 4	E	4	0	*	37	30	.	
	Munich ...	29.99	27	E	3	c	29.93	- 1.7	20	19	- 1	E	4	0	*	34	18	.	
	The Helder ...	29.86	37	ESE	4	c	29.76	- 1.9	32	31	- 2	ESE	5	0	3	37	32	.	
	Brussels ...	*	*	*	*	*	29.66	- 2.4	45	42	+ 2	SE	1	0	*	51	42	0.04	
	Cape Gris Nez...	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	
	Paris ...	29.65	55	ENE	3	b	29.60	- 2.4	52	50	?	SW	4	0	*	60	48	0.04	
	Brost ...	29.45	55	WSW	4	?	29.54	+ 0.2	54	51	- 3	W	7	0	5	57	?	0.59	
PENINSULA.	Lorient ...	29.45	57	SSW	3	0	29.54	- 0.2	53	49	- 4	SW	5	0	5	59	50	1.22	
	Rochefort ...	29.59	59	SSE	7	0	29.71	- 0.1	54	52	- 3	WSW	7	6c	2	63	48	0.08	
	Belfort ...	29.87	33	N	1	0	29.95	- 0.1	31	31	?	N	1	0	*	37	27	.	
	Lyons ...	29.78	52	S	7	bc	29.73	- 2.4	56	50	+ 6	S	4	?	*	57	?	0.39	
	Nice ...	30.08	42	ENE	3	0	29.93	- 2.4	46	46	+ 3	E	1	0	3	46	44	0.12	
	Perpignan ...	29.73	62	SE	4	0	29.73	- 1.5	56	51	+ 3	W	3	?	*	67	?	.	
	Biarritz ...	29.84	68	SW	7	0	29.75	+ 0.6	51	46	- 13	SW	3	op	6	72	50	0.16	
PENINSULA.	Corunna ...	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	
	Lisbon ...	29.84	56	NW	4	c	29.88	- 2.2	52	50	- 8	Z	0	?	?	63	50	0.63	

For Explanation of Columns, see p. 4.

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

WEATHER CHARTS

for 8 a.m. on

Tuesday 13th November.

1888.

BAROMETER, WIND & SEA.

(Explanation of Map)

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

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

— forces above 10; — forces 6 to 10;
— forces 5 to 7; — forces 1 to 4;
○ — dead calm.

Sea Disturbance — where considerable is shown thus.

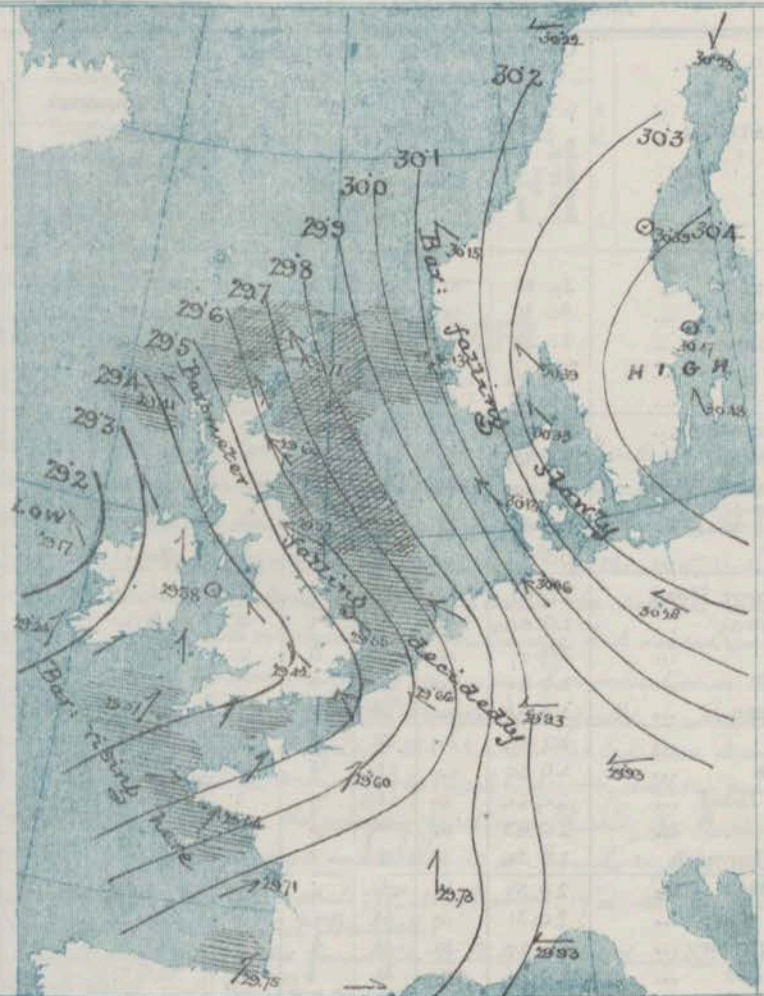
— Rough. — High.

MEAN HEIGHT of the BAROMETER

at 8 a.m. for the month of 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
Rocha's Point	29.864
Pembroke	29.862
Scilly	29.899
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.

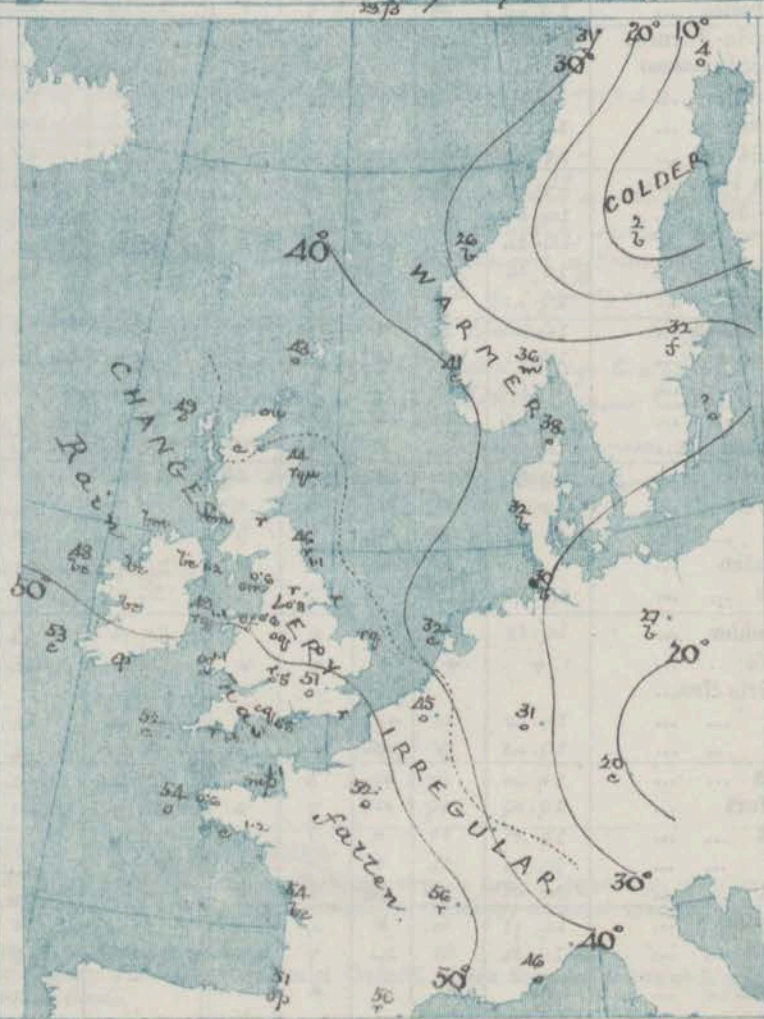
MEANS OF TEMPERATURE IN SHADE.

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	40.3	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	42.9	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	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	37.9	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 10 years 1866–85



GENERAL SITUATION AT 8 A.M.

PRESSURE

Highest, 30.4 ins. and upwards, in an anticyclone lying over the Baltic and south of Sweden.
Lowest, 29.2 ins. and less in a depression lying off the west of Ireland. A secondary disturbance is moving northwards over Central England.
Barometer, steep over the North Sea and our north and east coasts, but moderate or slight elsewhere.
Barometer, rising in the west and southwest of our Islands and also in the west of France, but falling elsewhere.

TEMPERATURE

Highest, 56° at Lyons and Perpignan, 54° at Brest and Rochefort, 53° at Valencia and Lorient, and 52° at Cork, Kilmorke, Seilly, Paris, Liege.
Lowest, 1° at Helsingfors, 4° at Haparanda, 20° at Munich, 26° at Christiansund, 27° at Berlin, and 32° at Rostock.

WIND

Moderate to strong from the SW^W over the southwest of our Islands and the coast and north of France.
Strong to a gale from the SE^W over the North Sea and our north and east coasts.
Moderate from E. in Germany; calm or light variable in Sweden.

WEATHER

Fine at most of the Irish stations as well as in North Germany and the south of Denmark.
Cloudy or overcast elsewhere, with rain in many parts of Great Britain and France.
Heavy rain fell yesterday over Ireland, England and France, the largest amounts being 12 ins. at Donaghadee, Bould Point and Lorient, and 1 ins. at Shields, Holyhead, Pembroke and Jersey.

SEA

Very high off the north of Scotland, high on our northeast coasts, and rough at all but our southern stations.

PROBABLE CHANGES IN SYSTEM NOW PREVALENT

The low pressure systems noticed above are moving northwards, and some temporary improvement in the weather is probable on our southern coasts. The general appearance, however, remains very unsettled.

FORECASTS

for the 24 hours ending at NOON on 14th Nov^r 1888.

DISTRICTS.

FORECASTS.

0	SCOTLAND NORTH	SE ^W gales and strong winds, cloudy, squally, some rain.
1	SCOTLAND EAST	
2	ENGLAND N.E.	SE ^W to SW ^W winds, strong and squally at times; changeable, some rain.
3	ENGLAND EAST	
4	MIDLAND COUNTIES	
5	ENGLAND SOUTH	

DISTRICTS.

FORECASTS.

6	SCOTLAND WEST	SE ^W winds, moderate or fresh; changeable, some rain.
7	ENGLAND N.W.	
8	ENGLAND S.W.	SW ^W and S ^W winds, fresh; squally, showery.
9	IRELAND NORTH	SE ^W and S ^W winds, fresh; changeable, some showers.
10	IRELAND SOUTH	Same as No 5.

WARNINGS

The SOUTH CONE has been lowered this morning in districts 6 to 10, but is still up in districts 0 to 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.

	Bar.	Dry.	Wet.	Wind.	Wea.	Sea.		Bar.	Dry.	Wet.	Wind.	Wea.	Sea.
Skudesnaes ...	30.27	39	33	SSE 6	bc	5	Holyhead ...	29.43	50	49	ESE 4	r	3
Samburgh Head ...	29.46	43	40	SSE 5	o	7	Valencia ...	29.10	54	51	SE 7	cg m	6
Stornoway ...	29.59	48	47	SE 5	o	5	Scilly ...	29.24	55	54	SSE 5	om	6
Aberdeen ...	29.53	45	44	SE 6	orgu	6	Jersey ...	29.47	56	55	ESE 6	o	5
Shields ...	29.73	45	44	SE 5	o	4	Dungeness ...	29.60	53	51	SSE 4	o	3
Ardrossan ...	29.57	45	43	SSE 4	o	2	London ...	29.63	52	51	SE 2	om	*
Malin Head ...	29.37	47	46	ESE 6	o	6	Yarmouth ...	29.82	47	46	SE 5	cg	5
Mullaghmore ...	29.25	52	50	SE 8	orgu	6	Rochefort ...	29.62	62	58	SE 8	bc	3
Belmullet ...	29.11	54	51	SSE 8	og	*							

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

The reports for yesterday morning showed that pressure varied from between 30.2 ins. and 30.5 ins. over the whole of northern, eastern and southern Europe to less than 29.2 ins. in a large depression, the centre of which lay off the west of Ireland. Gradients were steep over our Islands, the North Sea, and Bay of Biscay, moderate over France, slight elsewhere, and the barometer was falling at all the more western stations. S^W and SE^W winds had again become general over the British Isles and the North Sea, accompanied by dull, equally, wet weather, while light SW^W breezes and fair weather were felt over Northern Europe, and variable air and unsettled showery weather over France. At 11.4 ins. of rain had fallen and at Boulogne 1 inch. Temperature varied from 60° and more over Spain and the western parts of the Mediterranean, and from rather above 50° on our southwestern and southern coasts to much below the freezing point over Lapland, Russia and Germany, but was inclined to rise in the extreme north. The highest individual readings were 64° at Algiers and Barcelona, 63° at Bilbao, 60° at Lisbon, 56° at Malin and Scilly, 55° at Jersey, 54° at Cagliari, Santa Point and Rochefort, 51° at Dungeness, and 50° at Larnaca; the lowest were 6° at Hakaranda, 8° at Nicolaieff, 9° at Odessa, 13° at Ulm, 20° at Moscow and Kuopio, 21° at Riga, Helmsfor and Munich, 26° at Berlin, Goerz and Christiansund, and 30° at Cuxhaven.

Later on SE^W to S^W gales and rain prevailed very generally over the United Kingdom generally, and blew very hard on the northeast coast of Scotland where a tremendous sea was raised.

Remarks on the Weather over Europe during the 24 hours ended at 8 am on 11th Nov^r 1888.

The report for Saturday morning showed that pressure varied from 30.10 ins. to 30.45 ins. in a large anticyclone which covered the whole of northern and central Europe, and that it exceeded 30.10 ins. in another such system which lay over the southern half of Spain and Northern Africa, the two regions being united by a "col" which lay over the central and southwestern parts of France and the north of Spain. To the eastward readings decreased to less than 29.3 ins. in a depression lying off the west of Ireland, to the southward they decreased to about 29.7 ins. in a complex depression lying over the Mediterranean, and further eastward they decreased to less than 29.9 ins. over Southern Russia and the Caucasus. Strong SE^W to S^W winds and gales prevailed over the United Kingdom, with unsettled showery weather and rising temperature, NE^W gales, thunder, and much rain were reported in the south of France, and strong NW^W winds and cold showers in the southwest of Russia. Temperature ranged from 60° and more over Biskajal and the western and southern parts of the Mediterranean, and from upwards of 50° in the extreme west and southwest of the British Isles to much below the freezing point over northern, eastern and central Europe. The highest individual readings were 66° at Riga, 64° at Malin, 61° at Lisbon, 60° at Corunna, 59° at Cagliari and Paganini, 57° at Bilbao, 55° at Malin, 54° at Scilly and 50° at Belmullet; the lowest were 5° at Hakaranda, 8° at Nicolaieff, 14° at Ulm, 15° at Moscow, 17° at Kuopio, 19° at Riga, 20° at Archangel and Munich, 24° at Nicolaieff, 24° at Berlin, 27° at Stockholm, 28° at Helmsfor and Bremen, 32° at Paris, and 33° in London.

Later in the day temperature increased still further over the British Isles, and the SE^W gales subsided except in the extreme N. and NE. which in many places the wind veered to SW^W. The weather generally showed

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 14th NOVEMBER 1888.
Issued by the Meteorological Office, 116, Victoria Street, London. R. H. SCOTT, Secretary.

STATIONS.	† YESTERDAY EVENING.					8 A.M. TO DAY.										PAST 24 HOURS.		
	Barometer at 32° F. and Sea Level.	Temp. in Shade.	WIND.			BAROMETER.		SHADE TEMP.			WIND.		Weather.	Sea (0 to 9.)		SHADE TEMP.		
			Dir.	Force, (0 to 12.)	Weather.	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.	Amount of Rainfall.
SCANDINAVIA.	Haparanda ..	30.25	3	2	0	30.23	-.00	5	4	+	1	2	0	0	*	10	0	—
	Hernösand ...	30.30	3	2	0	30.34	-.05	8	8	+	6	2	0	0	*	14	0	—
	Stockholm ...	30.11	34	1	0	30.11	-.06	35	32	+	8	SW	2	0	*	36	28	—
	Wisby ...	30.17	34	5	2	30.17	-.01	30	32	+	5	SW	2	0	*	37	30	—
	Bodö ...	30.16	35	E	2	29.97	-.25	36	31	+	5	ESE	4	0	*	36	28	—
	Christiansund...	30.04	29	ESE	2	29.92	-.12	31	30	+	5	ESE	1	0	1	32	?	—
	Skudesnæs ...	30.03	41	SE	4	30.00	-.03	41	36	+	0	SSE	8	0	7	43	39	—
	Christiania Fjord (Færder)	30.32	36	ENE	4	30.30	-.02	34	31	+	2	ESE	4	0	2	36	30	—
	Skagen (The Seaw)	30.28	35	SSE	5	30.26	-.02	36	34	+	2	SSE	5	0	3	37	32	—
	Fanö ...	30.06	30	ESE	6	30.09	-.04	28	26	+	4	SE	6	0	*	36	28	—
BRITISH ISLANDS.	Sumburgh Head	29.70	48	SSE	8	29.46	-.24	46	46	+	3	SSE	8	0	8	46	41	0.01
	Stornoway ...	29.37	50	S	5	29.25	-.12	48	47	+	1	SW	5	0	5	51	46	0.15
	Wick ...	29.56	46	SSE	9	29.41	-.15	49	48	+	3	S	4	0	9	49	44	0.13
	Nairn ...	29.50	49	SSE	3	29.40	-.10	50	47	+	1	SSW	1	0	1	51	46	—
	Aberdeen...	29.62	45	SE	7	29.52	-.10	49	47	+	5	SSE	7	0	8	49	44	0.00
	Leith ...	29.48	46	SE	4	29.54	+.06	48	48	+	4	SW	3	0	*	52	45	0.03
	Shields ...	29.49	47	ESE	6	29.69	+.20	47	46	+	1	S	8	0	8	49	44	0.15
	Spurn Head ...	29.54	48	S	5	29.89	+.35	48	44	+	2	S	3	0	3	49	43	—
	York ...	29.45	49	SSE	4	29.77	+.32	48	40	+	3	ESE	1	0	*	50	42	0.08
	Loughborough	29.37	47	SSW	3	29.84	+.47	47	47	+	1	SSW	3	0	*	53	43	—
GERMANY.	Ardrossan ...	29.44	48	ESE	2	29.55	+.11	50	49	+	1	SSW	5	0	4	50	46	0.15
	Malin Head ...	29.34	47	SSE	4	29.47	+.13	49	47	+	4	SW	4	0	3	51	45	0.01
	Mullaghmore ...	29.32	53	SSE	5	29.57	+.25	51	49	+	2	SSW	5	0	3	54	47	0.01
	Belmullet ...	29.30	57	SW	5	29.53	+.23	49	48	+	1	WSW	5	0	*	52	47	0.16
	Donaghadee ...	29.42	49	SE	3	29.60	+.18	49	49	+	1	SSW	2	0	1	52	46	0.04
	Barrow-in-Furness	29.41	47	SE	3	29.65	+.24	48	47	+	0	SE	4	0	*	49	45	0.37
	Liverpool (Bidston)	29.46	46	WSW	2	29.74	+.28	48	47	+	2	SSE	3	0	3	50	45	0.43
	Holyhead ...	29.44	50	SSW	2	29.67	+.23	53	52	+	4	SSW	5	0	4	53	48	0.13
	Parsonstown ...	29.41	50	SW	0	29.44	+.03	46	44	+	0	SW	1	0	*	54	45	0.02
	Valencia ...	29.46	52	WSW	2	29.70	+.24	52	49	+	1	SW	3	0	3	56	48	0.06
FRANCE & NETHERLANDS.	Roche's Point...	29.44	52	WSW	3	29.70	+.24	52	51	+	0	WSW	3	0	4	50	48	0.25
	Pembroke ...	29.50	52	SSW	3	29.76	+.32	53	52	+	1	SSW	4	0	4	54	51	0.05
	Scilly ...	29.57	53	WSW	3	29.80	+.23	54	54	+	2	SSW	4	0	4	57	51	0.01
	Prawle Point ...	29.59	53	SW	4	29.88	+.29	54	51	+	2	SW	3	0	2	53	47	0.05
	Jersey ...	29.65	54	SSW	4	29.93	+.28	54	50	+	1	SSW	3	0	3	55	48	0.05
	Hurst Castle ...	29.63	53	SSW	6	29.90	+.27	53	52	+	3	SW	3	0	5	53	47	0.15
	Dungeness ...	29.67	53	SW	4	29.92	+.25	52	50	+	0	SSW	4	0	3	55	52	0.04
	London ...	29.65	50	WSW	3	29.91	+.26	49	48	+	2	S	2	0	*	54	46	—
	Oxford ...	29.68	47	SSE	3	29.88	+.20	47	47	+	3	S	2	0	*	52	44	0.01
	Cambridge ...	29.66	46	S	1	29.90	+.24	48	47	+	1	S	1	0	*	55	40	—
PENIN-SULA.	Yarmouth ...	29.64	48	S	3	29.89	+.25	48	47	+	2	SSW	3	0	4	49	44	0.01
	Cuxhaven ...	30.01	32	ESE	7	30.06	+.05	27	26	+	3	S	3	0	*	33	26	—
	Berlin ...	30.19	29	ESE	4	30.25	+.06	24	20	+	6	ESE	4	0	*	34	19	—
	Wiesbaden ...	30.06	28	NE	2	30.06	+.00	33	32	+	2	NNE	2	0	*	37	31	—
	Munich ...	29.91	26	NE	2	30.02	+.11	26	25	+	6	NE	3	0	*	34	?	—
	The Helder ...	29.81	35	SE	1	29.97	+.16	34	33	+	2	SE	1	0	1	37	32	0.01
	Brussels ...	30.08	34	SE	1	30.08	+.00	34	33	+	3	S	3	0	*	32	41	0.04
	Cape Gris Nez...	29.80	48	SE	1	29.94	+.14	42	42	+	10	SE	1	0	*	55	38	0.04
	Paris ...	29.69	53	WSW	5	29.92	+.23	55	50	+	1	W	3	0	5	57	41	0.08
	Brest ...	29.67	52	SW	4	29.90	+.23	52	51	+	1	WSW	1	0	5	57	48	0.08
GERMANY.	Lorient ...	30.21	36	WSW	5	30.02	+.01	50	49	+	4	S	4	0	2	59	45	0.35
	Rochefort ...	29.89	36	WSW	1	30.01	+.12	35	34	+	4	E	1	0	*	44	31	0.04
	Belfort ...	29.83	47	NNE	1	30.02	+.20	44	44	+	12	W	5	0	*	?	?	1.02
	Lyons ...	29.87	54	ENE	5	29.93	+.06	50	49	+	4	ENE	4	0	4	57	46	0.98
	Nice ...	29.80	50	W	1	30.00	+.20	47	43	+	9	W	3	0	*	59	39	0.32
	Perpignan ...	29.80	52	SW	1	29.99	+.19	54	49	+	3	SW	5	0	5	68	48	0.08
	Biarritz ...	29.80	52	SW	1	29.99	+.19	54	49	+	3	SW	5	0	5	68	48	0.08
	Corunna ...	29.99	56	NNW	5	30.09	+.10	56	54	+	4	NNW	1	0	2	63	54	0.20
	Liston ...	29.99	56	NNW	5	30.09	+.10	56	54	+	4	NNW	1	0	2	63	54	0.20
	Liston ...	29.99	56	NNW	5	30.09	+.10	56	54	+	4	NNW	1	0	2	63	54	0.20

WEATHER CHARTS

for 8 a.m. on WEDNESDAY, 14TH NOVEMBER, 1888.

BAROMETER, WIND & SEA.

(Explanation of Map)

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

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

→ = forces above 10; → = forces 6 to 10;
 → = forces 5 to 7; → = forces 1 to 4;
 ○ = dead calm.

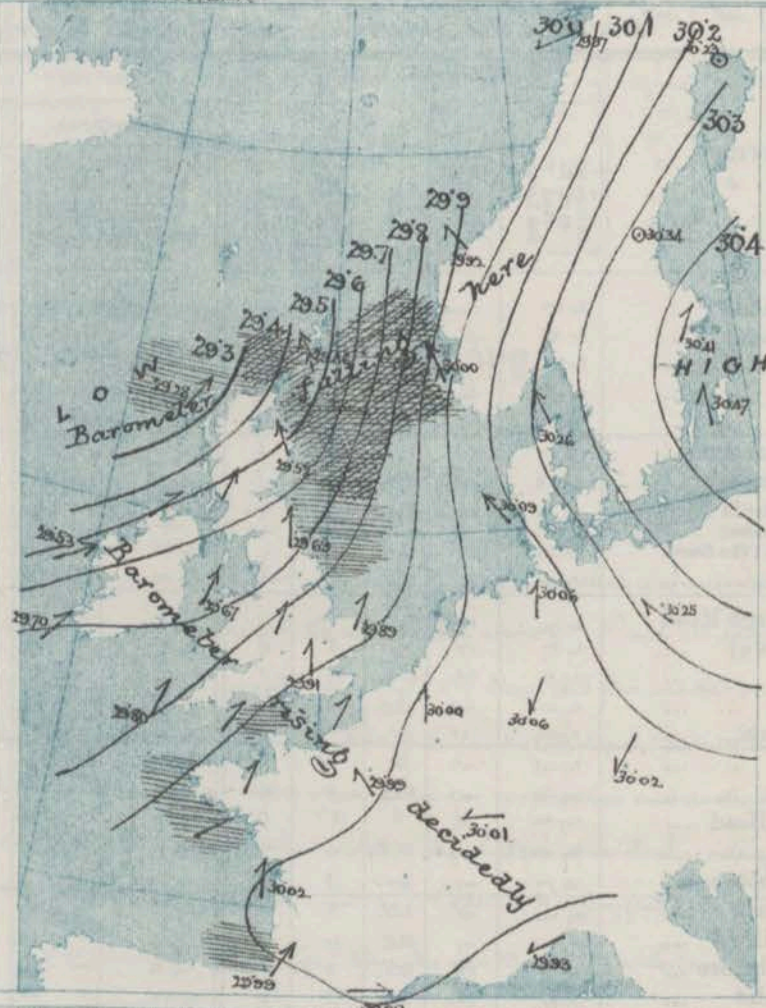
Sea Disturbance — where considerable, is shown thus.

■ = Rough ■ = High

MEAN HEIGHT of the BAROMETER

at 8 a.m. for the month of 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	29.878
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



GENERAL SITUATION AT 8 A.M.

PRESSURE	<p>Highest 30.4 ins. and upwards in an anticyclone lying over the Baltic.</p> <p>Lowest 29.3 ins. and less in a depression lying off the northwest of Scotland.</p> <p>Gradients steep over the northern part of the North Sea, but slight elsewhere.</p> <p>Barometer rising at all but the Scandinavian and extreme northern stations.</p>
TEMPERATURE	<p>Highest 56° at Lisbon, 55° at Brest, 54° at Lillo and Biarritz, and 53° at Holyhead, Pembroke and Hurst Castle.</p> <p>Lowest 5° at Haparanda, 8° at HERNESUND, 21° at Berlin, 26° at Munich, 27° at Cuxhaven, and 28° at Funch.</p>
WIND	<p>Strong to a gale from the S.W. in the north and east of Scotland, and from S.E. on the eastern shores of the North Sea.</p> <p>Moderate from the S.W. over the greater part of Ireland, England and France.</p> <p>A strong gale from the S.E. was experienced yesterday in the north and east of Scotland.</p>
WEATHER	<p>Fair generally, but foggy in some parts of central England, and raining at Lumburgh Head, as well as in the south of France.</p> <p>A solar halo was observed at Babbacombe this morning.</p> <p>Rain fell yesterday in most parts of Western Europe, and lightning was seen at Prawle Point at night.</p>
SEA	<p>Very high off the north and northeast of Scotland, rough off the northeast of England, and rather rough in the Bay of Biscay, but moderate or slight elsewhere.</p>

PROBABLE CHANGES IN SYSTEM NOW PREVALENT

The barometer is at present reported to be rising steadily in the west and southwest, but the motion of the cirrus cloud at Babbacombe seems to indicate that another depression is approaching our southwest coasts. The improvement in the weather noticed this morning is therefore in all probability merely temporary.

FORECASTS

for the 24 hours ending at NOON on 15th November 1888.

DISTRICTS.	FORECASTS.	DISTRICTS.	FORECASTS.
0 { SCOTLAND	S ⁴ winds, moderating gradually; changeable, some showers.	6 { SCOTLAND	S ⁴ winds, moderate or fresh; changeable, some showers.
1 { NORTH		7 { WEST	
2 { SCOTLAND	SW ⁴ and S ⁴ winds, moderate; fair generally, but local showers.	8 { ENGLAND	SW ⁴ to S ⁴ or SE ⁴ winds, force doubtful; changeable, some rain.
3 { EAST		9 { N.W.	
4 { ENGLAND		10 { ENGLAND	
5 { N.E.		11 { S.W.	
6 { ENGLAND		12 { IRELAND	
7 { EAST		13 { NORTH	
8 { MIDLAND		14 { IRELAND	
9 { COUNTIES		15 { SOUTH	
10 { ENGLAND			
11 { SOUTH			
		WARNINGS	NONE ISSUED

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

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

YESTERDAY'S 2 P.M. REPORTS.

	Bar.	Dry.	Wet.	Wind.	Wes.	Sea.		Bar.	Dry.	Wet.	Wind.	Wes.	Sea.
Skudeenæs ...	29.44	42	27	SE 8	lc	6	Holyhead ...	29.39	48	47	7	c	comp
Sumburgh Head ...	29.74	43	46	SE 8	c	5	Valencia ...	29.37	53	52	W 2	op	2
Stornoway ...	29.35	51	51	SE 5	7	5	Scilly ...	29.44	56	53	SW 5	b	6
Aberdeen ...	29.62	44	48	SE 7	rgn	8	Jersey ...	29.87	58	53	SW 3	b	3
Shields ...	29.49	46	45	SE 7	c	7	Dungeness ...	29.64	53	51	SW 5	c	4
Ardrossan ...	29.41	49	48	ENE 2	r	1	London ...	29.55	54	44	SW 4	c	
Malin Head ...	29.38	50	47	SE 3	c	3	Yarmouth ...	29.57	49	48	SE 5	c	5
Mullaghmore ...	29.38	53	49	SE 5	lc	3	Roshefort ...	29.75	57	53	SW 4	c	2
Belmullet ...	29.28	52	51	S 5	cp	*							

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

The reports for yesterday morning showed that the high-pressure recently prevailing over northern Europe had moved a little in a southerly direction, and covered the whole of Russia, the Baltic, Germany and southeastern Europe, and that a new and well-marked depression which had arrived off the west of Ireland was travelling in a northerly direction outside our western coasts, and at the same time spreading eastwards over France, Great Britain and the North Sea. The wind was again strong to a gale in force - from SE. at our northern and eastern stations, and from S. or SW. over the Channel and Bay of Biscay. In western Germany and the south of France it was E. or SE., while over central and eastern Europe variable airs prevailed. The weather was very wet over the western and southern countries, the largest falls of all exceeding an inch at several stations in the United Kingdom and France. Temperature continued below the freezing point except over the more western and southern countries, and readings ranged from 60° and more over the southern and western parts of the Mediterranean, and from 50° and more over the southern parts of the British Islands, to very little above zero in the north of Sweden. The highest individual values were 64° at Cagliari, 63° at Algiers, 62° at Malta, 58° at Bilbao, 57° at Sanguinaires, 56° at Lyons, 54° at Rochefort and Brest, 53° at Valencia, 52° at Paris, and 51° in London; the lowest were 2° F. at Hernösand, 4° at Haparanda, 14° at Nicolaieff, 18° at Warsaw, 20° at Bracow, Odessa and Munich, 22° at Kharkov, 23° at Kiew and Prague, 26° at Christiansund, 27° at Berlin, and 32° at Fano.

Later in the day the depression in the West began to pass off, and the wind moderated on our southern and southwestern coasts and veered to the SW^{wd}, with finer weather.

EXPLANATION OF COLUMNS GIVEN ON PAGE 1.

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

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

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

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

DAILY WEATHER REPORT.

for *Thursday, 15th November* 1888.
 Issued by the *Meteorological Office, 116, Victoria Street, London.* R. H. SCOTT, Secretary.

Issued by the Meteorological Office, No. 1, Victoria Street, London, W. 1. 1907.																		
STATIONS.	+ YESTERDAY EVENING.						8 A.M. TO DAY.										PAST 24 HOURS.	
	Barometer at 32° F. and Sea Level.	Temp. in Shade.	WIND.		Weather.	BAROMETER.		SHADE TEMP.			WIND.		Weather.	Sun. (0 to 2.)	SHADE TEMP.		Amount of Rainfall.	
			Dir.	Force. (0 to 12.)		Reading at 32° F. and Sea Level.	Difference from 8 a.m. yesterday.	Dry.	Wet.	Difference from 8 a.m. yesterday.	Dir.	Force. (0 to 12.)			Max.	Min.		
SCANDINAVIA.	Haparanda ..	30.15	24	SW	4	0	29.96	- .27	28	27	+ .23	WSW	4	0	*	30	1	-
	Hernösand ...	30.29	24	SW	6	0	30.19	- .15	29	27	+ .21	SW	4	0	*	29	1	-
	Stockholm ...	30.40	34	Z	0	0	30.36	- .05	31	29	- .14	SSW	2	0	*	36	?	-
	Wisby ...	30.47	34	SSW	4	0	30.45	- .02	33	30	- .2	S	4	0	*	37	30	-
	Bodö ...	29.87	32	ESE	2	0	29.79	- .18	33	29	- .3	E	4	0	*	36	28	-
	Christiansund...	29.81	41	ESE	4	bc	29.81	- .11	42	41	+ .11	WSW	6	0	*	?	39	0.04
	Skudesnaes ...	29.98	40	SSE	9	0	30.01	+ .01	45	44	+ .1	SSE	6	0	*	?	34	-
	Christiania Fjord (Færd)	30.27	35	E	4	0	30.24	- .03	38	37	+ .1	S	5	0	*	39	36	-
	Skagen (The Scaw)	30.23	39	SSE	6	0	30.25	- .01	37	34	+ .1	SW	5	0	*	32	28	-
	Fanö ...	30.22	31	S	5	0	30.25	+ .16	31	31	+ .3	SSE	4	0	*			-
BRITISH ISLANDS.	Sumburgh Head	29.43	46	WSW	1	b	29.62	+ .16	47	46	+ .1	SSE	3	0	*	49	44	0.12
	Stornoway ...	29.49	47	SW	5	c	29.38	+ .10	48	48	0	SW	7	0	*	52	44	0.14
	Wick ...	29.57	50	S	1	c	29.47	+ .06	48	47	- .1	S	7	0	*	52	43	0.01
	Nairn ...	29.58	47	W	3	c	29.54	+ .14	51	48	+ .1	Z	0	*	54	44	0.01	
	Aberdeen...	29.68	45	S	3	c	29.67	+ .15	47	46	- .2	SSE	5	0	*	51	44	0.02
	Leith ...	29.73	47	SW	5	r	29.67	+ .13	48	47	- .1	S	1	0	*	56	44	0.09
	Shields ...	29.82	52	S	3	cp	29.79	+ .10	52	51	+ .5	S	4	0	*	53	44	0.12
	Spurn Head ...	29.96	49	S	3	c	29.96	+ .04	49	48	+ .1	S	6	0	*	50	44	0.02
	York ...	29.92	51	S	2	bc	29.90	+ .13	50	50	+ .7	S	3	0	*	55	43	0.39
	Loughborough	29.98	53	SSW	3	0	29.98	+ .14	51	50	+ .4	SSE	5	0	*	57	47	0.14
GERMANY.	Arrossen ...	29.76	51	W	4	bc	29.56	- .00	51	51	+ .1	SE	3	0	*	52	47	0.14
	Malin Head	29.71	49	WSW	5	bp	29.51	+ .04	52	51	+ .3	WSW	6	0	*	54	46	0.17
	Mullaghmore ...	29.76	50	SW	5	b	29.61	+ .10	53	51	+ .2	WSW	7	0	*	54	47	0.35
	Belmullet ...	29.69	51	SW	4	b	29.69	+ .16	52	50	+ .3	W	6	0	*	54	47	0.22
	Donaghadee ...	29.84	48	W	2	b	29.61	+ .01	52	52	+ .3	SW	4	0	*	54	44	0.04
	Barrow-in-Furness	29.87	50	SSW	4	b	29.78	+ .13	51	51	+ .3	SE	6	0	*	51	45	0.31
	Liverpool (Bidston)	29.92	51	SW	3	b	29.82	+ .08	54	52	+ .6	SSE	4	0	*	55	46	0.15
	Holyhead ...	29.90	52	SW	3	bc	29.77	+ .10	54	54	+ .1	SSW	8	0	*	55	47	0.17
	Parsonstown ...	29.85	46	Z	0	b	29.73	+ .09	56	54	+ .10	WSW	3	0	*	57	42	0.02
	Valencia ...	29.84	53	SSE	2	0	29.85	+ .15	54	53	+ .2	W	2	0	*	57	50	0.15
FRANCE & NETHERLANDS.	Roche's Point...	29.88	52	WSW	1	0	29.84	+ .14	55	55	+ .3	WSW	4	0	*	55	50	0.20
	Pembroke ...	29.95	53	SW	3	0	29.90	+ .14	54	54	+ .1	SSW	6	0	*	54	51	0.53
	Scilly ...	29.93	55	SSW	4	b	29.99	+ .19	56	56	+ .2	S	5	0	*	56	53	0.15
	Prawle Point ...	30.05	54	SW	4	0	30.08	+ .20	55	55	+ .3	SSW	6	0	*	56	51	0.08
	Jersey ...	30.10	53	S	3	og	30.21	+ .28	53	52	+ .1	SSE	5	0	*	58	46	-
	Hurst Castle ...	30.06	53	SW	4	bc	30.13	+ .23	53	53	0	SSW	8	0	*	57	53	0.09
	Dungeness ...	30.06	52	SW	4	0	30.20	+ .23	49	48	- .3	SSW	5	0	*	55	48	-
	London ...	30.06	52	SSW	1	c	30.14	+ .23	51	50	+ .2	S	4	0	*	58	49	0.01
	Oxford ...	30.07	50	SE	1	c	30.07	+ .19	51	50	+ .4	S	4	0	*	56	47	0.14
	Cambridge ...	30.03	47	S	1	b	30.09	+ .19	51	50	+ .3	S	2	0	*	56	46	0.02
PENINSULA.	Yarmouth ...	30.03	49	SSW	3	bc	30.13	+ .24	48	47	0	SSW	4	0	*	53	46	-
	Cuxhaven ...	30.17	33	SSE	3	c	30.32	+ .26	35	35	+ .8	S	2	0	*	35	?	-
	Berlin ...	30.35	29	SE	2	b	30.44	+ .19	44	23	+ .3	SE	2	0	*	32	?	-
	Wiesbaden ...	*	*	*	*	*	30.41	+ .35	36	33	+ .3	E	1	0	*	37	?	-
	Munich ...	30.24	30	NE	2	c	30.39	+ .37	23	23	- .3	NE	1	0	*	36	23	-
	The Helder ...	30.18	41	S	1	b	30.25	+ .28	42	42	+ .8	S	1	0	*	45	34	-
	Brussels ...	*	*	*	*	*	30.33	+ .33	46	44	+ .4	SSW	3	0	*	47	?	-
	Cape Gris Nez...	*	*	*	*	*	30.35	+ .36	45	44	+ .3	S	1	0	*	47	?	-
	Paris ...	30.20	45	S	1	0	30.16	+ .24	56	53	+ .1	SW	5	0	*	57	?	-
	Brest ...	30.09	56	S	4	0	30.20	+ .30	57	57	+ .5	SSW	5	0	*	59	48	-
FRANCE & NETHERLANDS.	Lorient ...	30.10	55	S	3	0	30.20	+ .30	57	57	+ .5	SSW	5	0	*	61	43	-
	Rochefort ...	30.20	54	SW	1	bc	30.35	+ .33	46	46	- .4	SSE	5	0	*	44	32	-
	Belfort ...	30.13	38	E	1	0	30.38	+ .37	39	39	+ .4	E	1	0	*	51	?	-
	Lyons ...	30.20	49	N	1	0	30.38	+ .36	45	45	+ .1	N	4	0	*	?	50	0.02
	Nice ...	30.04	54	NE	4	0	30.20	+ .27	56	50	+ .6	E	4	0	*			-
	Perpignan ...	30.14	52	NW	3	bc	30.29	+ .29	50	47	+ .3	SW	3	0	*	61	46	-
PENINSULA.	Biarritz ...	30.17	56	WNW	4	b	30.32	+ .33	46	44	- .8	SW	3	0	*	59	45	-
	Corunna ...	*	*	*	*	*	30.30	+ .21	52	52	- .4	NNE	3	0	*	63	57	-
Lisbon ...	30.21	59	NW	4	b	30.30	+ .21	52	52	- .4	NNE	3	0	*			-	

For Explanation of Columns, see p. 4.

† Received too late for insertion in Charts on p. 11.

WEATHER CHARTS

for 8 a.m. on Thursday, 15th November

1888.

BAROMETER, WIND & SEA.

(Explanation of Map)

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

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

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

○ = dead calm.

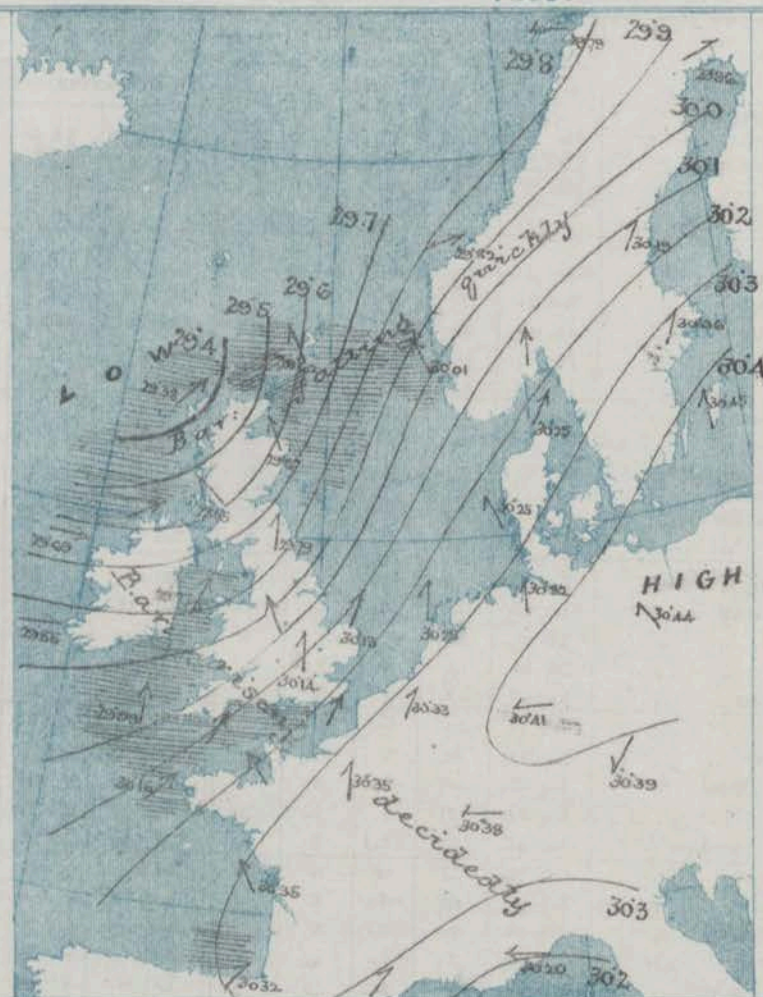
Sea Disturbance — where considerable is shown thus,

— Rough — High

MEAN HEIGHT of the BAROMETER

at 8 a.m. for the month of 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	29.898
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.

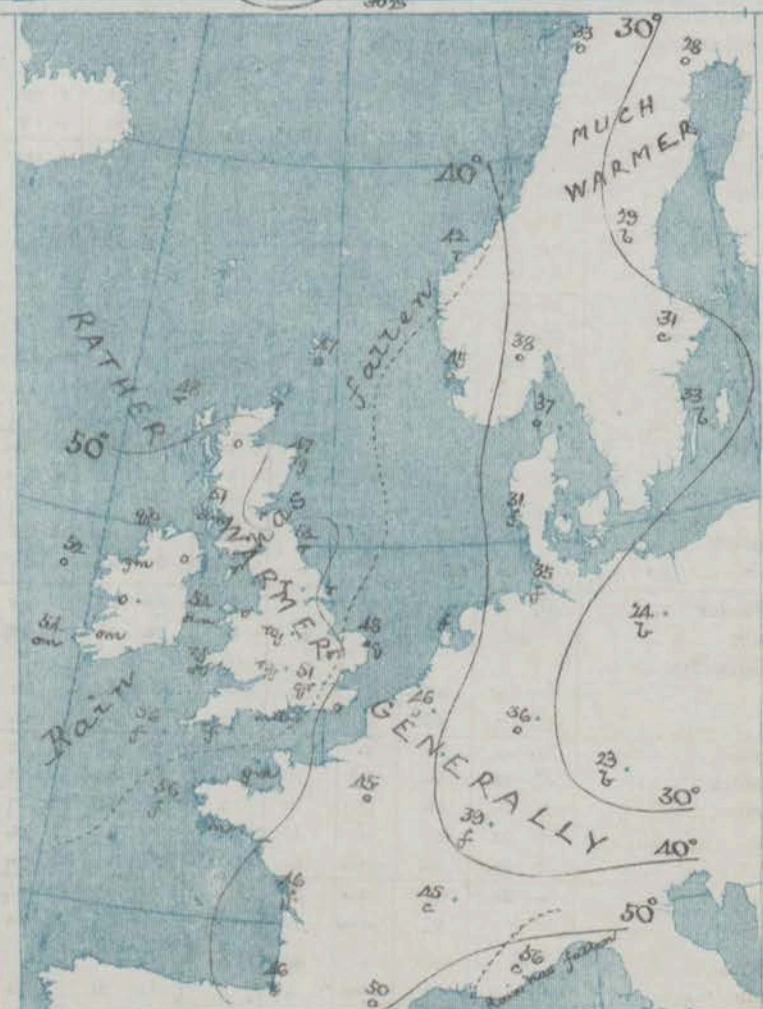
Rainfall — A dotted line separates the districts in which rain has fallen from those where there has been none. Falls of 0.5 in. or more, are quoted in figures.

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	2.07
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	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	42.7	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
Scilly	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	37.9	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 1866—85



GENERAL SITUATION AT 8 A.M.

PRESSURE

Highest, 30.4 ins. and upwards, in an anticyclone lying over Germany and the Baltic.
Lowest, 29.4 ins. and less, in a depression lying off the northwest of Iceland.
Gradients steep over our islands, the North Sea and Scandinavia, but slight elsewhere.
Barometer falling briskly in the northern parts of the United Kingdom, but rising in most other localities.

TEMPERATURE

Highest, 57° at Lorient, 56° at Pauzanobron, Seilly, Brest and Nice, and 55° at Rock Point and Braze Point.
Lowest, 23° at Munich, 24° at Berlin, 28° at Haparanda, 29° at Heringsund, and 31° at Stockholm and Jämsö.
In the course of the past twenty-four hours a rise of over 20° has taken place in the north of Sweden.

WIND

Strong from the S.W. or S.W.W. over our islands and the west of France, with a moderate gale in the north of Scotland and a fresh gale at Heligoland.
Strong from S.E. on the eastern shores of the North Sea.
Light from the E. over Germany and the southeast of France.

WEATHER

Dull over the United Kingdom and Norway, with rain in most parts of Great Britain.
Foggy over Denmark, the Netherlands, France, and the southwest of England; fine in Sweden and Germany.
In the course of the past 24 hours rain has fallen in most parts of the United Kingdom and solid and lunar halo have been seen in the south of England.

SEA

High at Wick, and rough on all the more exposed coasts of Western Europe.

PROBABLE CHANGES IN SYSTEM NOW PREVALENT

The new depression which has appeared off the northwest of Scotland will probably travel away in a northeasterly direction.

The anticyclone over Germany appears to be spreading southwards, and a decided improvement in the weather is likely to take place shortly over the southeastern part of the Kingdom. In the west and north, however, conditions will probably remain under the influence of depressions passing along our extreme western and northwestern coasts.

FORECASTS

For the 24 hours ending at NOON on 16th Nov^r 1888.

DISTRICTS.

FORECASTS.

0	SCOTLAND NORTH	S ³ strong winds and gales, moderating later; squally and rainy to fair
1	SCOTLAND EAST	
2	ENGLAND N.E.	S ³ and S.W. winds, strong and squally; some rain at first, but improving later.
3	ENGLAND EAST	
4	MIDLAND COUNTIES	
5	ENGLAND SOUTH	

DISTRICTS.

FORECASTS.

6	SCOTLAND WEST	S ³ to W ³ strong winds and gales; squally, showery.
7	ENGLAND N.W.	
8	ENGLAND S.W.	S.W. winds, strong and squally, unsettled, some showers.
9	IRELAND NORTH	W ³ winds, strong, a gale in places; squally, showery.
10	IRELAND SOUTH	

WARNINGS

The SOUTH CONE was hoisted last evening 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.

	Bar.	Dry.	Wet.	Wind.	Woa.	Sea.		Bar.	Dry.	Wet.	Wind.	Woa.	Sea.
Skudesnaes ...	29.99	41	37	SE 9	0	8	Holyhead ...	29.80	54	53	SW 5	c m	4
Snmburgh Head ...	29.50	49	48	S 3	c	7	Valencia ...	29.83	56	55	SW 3	b m	3
Stornoway ...	29.42	51	50	SW 5	c	5	Scilly ...	29.89	55	55	SSW 5	d	5
Aberdeen ...	29.61	50	48	SSW 4	bc	6	Jersey ...	30.05	57	54	SEW 3	c	3
Shields ...	29.75	53	50	S 4	0	4	Dungeness ...	30.01	52	50	SW 4	c	3
Ardrossan ...	29.64	52	50	SSW 4	c	4	London ...	29.99	58	55	SSW 4	c	*
Malin Head ...	29.58	49	47	W 5	b	4	Yarmouth ...	29.96	53	52	SW 3	b	4
Mullaghmore ...	29.66	52	49	W 6	b p	5	Rocheport ...	30.11	57	56	SW 4	bc	2
Belmullet ...	29.66	53	49	W 6	b p	*							

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

The reports for yesterday morning showed a continued movement in a southeasterly direction of the European high-pressure area, the central portion of which had reached the southern parts of Russia and the Black Sea. In these latter regions readings varied in value from 30.3 ins. to 30.5 ins. and over Central Spain they exceeded 30.1 ins. but then decreased to less than 29.3 ins. in a depression lying off our extreme northwest coast, and to rather below 29.9 ins. in another shallow disturbance which had appeared over the Mediterranean. S^W and SW^W breezes were consequently prevalent over the British Isles and Northwestern Europe, SE winds on the Eastern shores of the North Sea, E^W over Germany, and NE^W in the south of France. The weather was fair over Central Europe, unsettled and at times rainy over France and our Islands. In the south of France and on the Algerian coast the rainfall had again been large. Temperature ranged from 60° and more over the southern and western parts of the Mediterranean, and from upwards of 50° over the southwestern part of the British Isles to rather below 40° over Central Spain, to several degrees below the freezing point over Central and Eastern Europe, and to within a few degrees of zero over the Eastern parts of Lapland. The highest individual (morning) values were 67° at Malta, 64° at Ispah, 61° at Barcelona, 58° at Langunau, 55° at Rheet, 54° at Lionitz and Scilly, 53° at Holyhead, and 52° at Dungeness and Valencia. The lowest were 5° at Haparanda, 8° at Norrland, 9° at Hermanstad, 13° at Gressow, 20° at Rastor, 21° at Nicolaiiff and Berlin, 23° at Archangel, 26° at Munich, 27° at Cuxhaven, and 31° at Christiansund.

Later on the wind freshened from the S^W over the British Isles and the weather had a very unsettled appearance. Showers fell in many places, and solar and lunar halos were reported in several places.

EXPLANATION OF COLUMNS GIVEN ON PAGE 1.

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

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

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

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DAILY WEATHER REPORT.

for *Friday, 16th November 1888.*
Issued by the Meteorological Office, 116, Victoria Street, London. R.H. SCOTT, Secretary.

STATIONS.	† YESTERDAY EVENING.						8 A.M. TO DAY.										PAST 24 HOURS.		
	Barometer at 32° F. and Sea Level.	Temp. in Shade.	WIND.		Weather.	Reading at 32° F. and Sea Level.	Difference from 8 a.m. yesterday.	SHADE TEMP.		Difference from 8 a.m. yesterday.	WIND.		Weather.	Sea. (0 to 9.)	SHADE TEMP.		Amount of Rainfall.		
			Dir.	Force. (0 to 12.)				Dry.	Wet.		Dir.	Force. (0 to 12.)			Max.	Min.			
SCANDINAVIA.	Haparanda ..	29.84	27	2	0	29.57	-.39	30	29	+ 2	2	0	0	*	32	25	0.24		
	Hernösand ...	29.96	32	S	2	29.62	-.34	34	33	+ 5	SW	2	0	*	34	21	0.04		
	Stockholm ...	30.17	35	S	2	29.87	-.30	40	39	+ 9	SSW	2	0	*	?	28	-		
	Wisby ...	30.31	37	SW	6	30.04	-.27	40	39	+ 7	SW	8	0	*	?	30	-		
	Bodö ...	29.67	36	E	2	29.32	-.35	39	34	+ 6	E	2	0	1	?	28	0.08		
	Christiansund...	29.36	47	SE	8	29.56	-.20	44	39	+ 2	SSW	4	6	4	?	41	0.16		
	Skudesnaes ...	29.76	49	W	8	29.67	-.09	45	43	0	ESE	6	0	6	?	45	0.67		
	Christiania Fjord (Fjord)	29.88	42	SE	8	29.88	0	46	44	+ 8	SW	8	0	5	?	?	-		
	Skagen (The Seaw)	29.93	41	SW	7	29.96	-.03	43	42	+ 6	SW	3	m	2	45	36	0.04		
	Fanö ...	30.09	43	SW	4	30.04	-.05	42	42	+ 11	SSW	4	0	*	45	?	0.04		
BRITISH ISLANDS.	Sumburgh Head	29.50	47	W	4	29.07	-.43	45	45	- 2	SE	7	7	7	49	44	0.95		
	Stornoway ...	29.67	46	SW	4	28.79	-.88	49	49	+ 1	SW	9	7	7	54	46	0.96		
	Wick ...	29.68	45	WNW	6	28.92	-.76	50	48	+ 2	SW	5	7	7	50	43	0.38		
	Nairn ...	29.76	47	SW	2	28.98	-.78	57	53	+ 6	WSW	6	0	4	57	44	0.08		
	Aberdeen...	29.82	45	SW	3	29.21	-.61	53	51	+ 6	S	5	6	6	54	45	0.34		
	Leith ...	29.90	48	SW	4	29.29	-.61	58	51	+ 6	SW	7	6	*	58	45	0.06		
	Shields ...	29.95	51	WSW	3	29.52	-.43	59	55	+ 7	SSW	7	0	3	59	45	0.01		
	Spurn Head ...	30.06	53	WNW	1	29.82	-.24	56	54	+ 7	SSW	7	0	4	56	46	0.10		
	York ...	30.03	52	W	1	29.74	-.29	59	55	+ 9	S	5	0	*	59	48	0.09		
	Loughborough	30.07	57	SW	2	29.90	-.17	58	55	+ 7	SSW	6	0	*	58	50	0.11		
GERMANY.	Ardrossan ...	29.93	51	S	2	29.29	-.64	52	49	+ 1	S	9	0	7	53	49	0.10		
	Malin Head ...	29.85	49	SSW	4	29.01	-.84	49	48	- 3	SW	8	0	7	52	49	0.03		
	Mullaghmore ...	29.86	51	S	3								*						
	Belmullet ...	29.83	51	SSW	3								*						
	Donaghadee ...	29.96	49	SW	2	29.42	-.54	54	49	+ 2	WSW	8	0	5	55	48	0.01		
	Barrow-in-Furness	30.00	49	SSW	3	29.62	-.38	54	53	+ 3	SSW	8	0	*	56	45	0.26		
	Liverpool (Bidston)	30.04	51	W	1	29.75	-.29	57	52	+ 3	SW	6	0	4	60	50	0.01		
	Holyhead ...	30.02	52	SW	1	29.71	-.31	54	51	0	SW	9	0	7	55	50	0.07		
	Parsonstown ...	29.93	51	SE	1	29.64	-.29	54	48	- 2	WSW	4	0	3	59	50	-		
	Valencia ...	29.88	54	SE	5	29.84	-.04	54	50	0	WSW	7	0	7	58	53	0.07		
FRANCE & NETHERLANDS.	Roche's Point...	29.96	52	SE	3	29.87	-.09	54	50	- 1	WSW	6	0	5	56	51	0.10		
	Pembroke ...	30.06	54	SSW	3	29.92	-.14	55	54	+ 1	SSW	6	0	5	55	53	0.05		
	Soilly ...	30.08	56	SW	5	30.07	-.01	57	56	+ 1	SW	6	0	5	57	54	0.06		
	Prawle Point ...	30.17	55	SSW	5	30.11	-.06	55	55	0	SSW	6	0	6	56	54	0.07		
	Jersey ...	30.14	57	S	4	30.26	-.12	57	56	+ 4	SW	4	0	4	59	52	0.03		
	Hurst Castle ...	30.18	55	SW	6	30.15	-.03	55	55	+ 2	SW	7	0	5	58	53	0.07		
	Dungeness ...	30.19	54	SW	6	30.15	-.04	55	54	+ 6	SW	6	0	4	55	48	0.07		
	London ...	30.16	56	S	2	30.10	-.06	58	56	+ 7	SW	4	0	*	58	51	0.04		
	Oxford ...	30.14	56	SSW	4	30.03	-.11	57	56	+ 6	SW	5	0	5	58	51	0.05		
	Cambridge ...	30.11	54	S	2	30.01	-.10	58	56	+ 7	SSW	3	0	*	59	49	0.10		
PENINSULA.	Yarmouth ...	30.12	52	SW	3	30.03	-.09	56	55	+ 8	SSW	4	0	4	56	46	0.07		
	Cuxhaven ...	30.27	41	S	2	30.20	-.07	43	43	+ 8	SSW	3	0	*	43	?	-		
	Berlin ...	30.46	29	S	3	30.39	-.07	30	29	+ 6	S	1	0	*	36	?	-		
	Wiesbaden ...	*	*	*	*	30.47	+ 0.06	37	36	+ 1	W	0	0	*	39	36	-		
	Munich ...	30.51	28	W	0	30.47	+ 0.08	24	24	+ 1	SE	2	0	*	37	23	-		
	The Helder ...	30.21	46	SW	4	30.12	-.09	47	47	+ 5	SSW	5	0	3	?	?	0.08		
	Brussels ...	*	*	*	*	30.30	-.03	50	49	+ 4	S	5	0	*	50	?	0.04		
	Cape Gris Nez...	30.23	51	SSW	7	30.19	-.04	53	53	0	SSW	8	0	6	54	45	0.04		
	Paris ...	30.39	45	SE	1	30.40	+ 0.01	41	41	+ 4	R	3	0	*	50	40	-		
	Brest ...	30.28	56	SW	5	30.27	-.01	57	57	+ 1	WSW	4	0	5	57	41	0.08		
PENINSULA.	Lorient ...	30.30	58	SW	5	30.29	-.01	57	57	0	SW	5	0	4	59	54	0.04		
	Rochefort ...	30.42	55	SSW	4	30.44	+ 0.02	47	47	+ 1	SE	4	0	2	59	43	0.04		
	Belfort ...	30.39	39	E	1	30.45	+ 0.06	40	40	+ 1	W	1	0	*	43	36	-		
	Lyons ...	30.49	46	ENE	1	30.50	+ 0.01	44	44	- 1	E	1	0	*	48	43	-		
	Nice ...	30.34	55	SE	3	30.42	+ 0.08	54	50	- 2	SE	1	0	1	66	48	-		
	Perpignan ...	30.39	50	W	0	30.45	+ 0.06	41	39	- 9	SW	1	0	*	63	37	-		
	Biarritz ...	30.39	54	SE	4	30.38	+ 0.06	46	44	0	SE	4	0	5	61	41	-		
	Corunna ...	*	*	*	*														
	Lisbon ...	30.55	59	N	4	30.39	+ 0.09	51	47	- 1	NE	5	0	2	63	50	-		

WEATHER CHARTS

for 8 a.m. on Friday, 16th November, 1888.

BAROMETER, WIND & SEA.

(Explanation of Map)

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

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

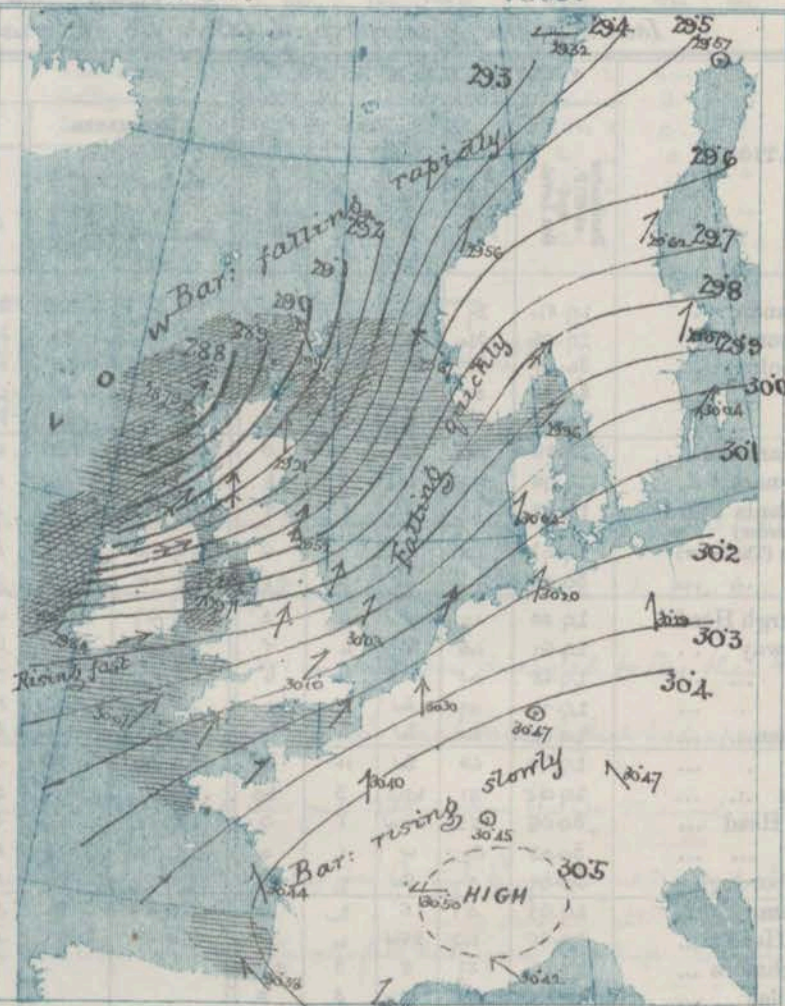
Sea Disturbance — where considerable, is shown thus.

— Rough — High

MEAN HEIGHT of the BAROMETER

at 8 a.m. for the month of 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	29.898
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.

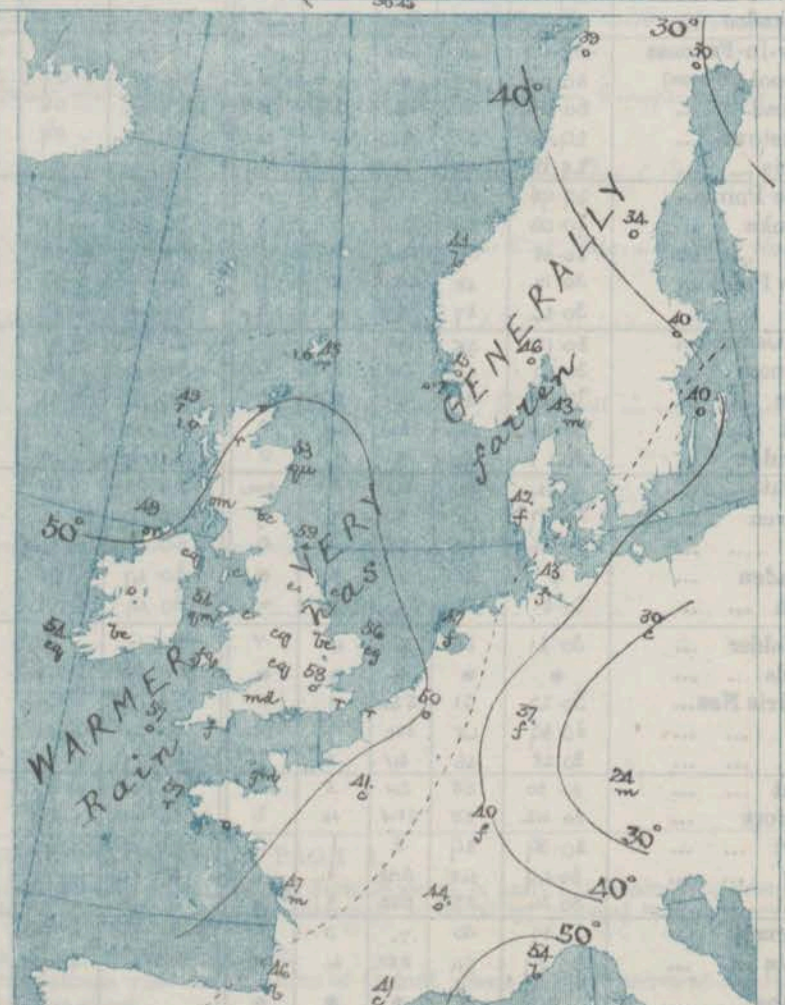
MEANS OF TEMPERATURE IN SHADE.

AND RAINFALL.

for the month of November.

STATIONS	TEMPERATURE.				RAINFALL. (Inches)
	Daily Max.	Daily Min.	at 5 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	38.9	42.6	40.8	3.92
Donaghadee	48.2	39.2	43.9	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
Scilly	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	37.9	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 1866–85



GENERAL SITUATION AT 8 A.M.

PRESSURE

Highest, 30.5 in. at Lyons, 30.4 in. and upwards over nearly the whole of France and South Germany.
 Lowest, 28.8 in. and less, in a depression lying off the north-west of Scotland.
 Gradients, exceedingly steep over the north of Ireland, and steep over the whole of our islands and the North Sea.
 Barometer falling rapidly in Scotland, and to a less extent over England, but rising again in the south of Ireland.

TEMPERATURE

Highest, 59° at Shields and York, 58° at Litch, Loughborough, Cambridge and in London, and 57° at Ayr, Liverpool, Scilly, Jersey, Brest and Dorset.
 Lowest, 24° at Munich, 30° at Haparanda and Berlin, 34° at Helsingfors, 37° at Nuremberg, and 33° at Rostock.
 The minimum registered in London last night was as high as 55°.

WIND

Strong from the SWnd over our islands and the North Sea, with gales on our north-west, north, and north-east coasts.
 Light from the End or SEnd over the southern parts of Germany and France.
 A "whole" gale from the Snd was experienced at Valencia during the night.

WEATHER

Cloudy or overcast in most places, with rain in the west and north of Scotland.
 Fog prevails over Denmark, the Netherlands, the East of France, and the southwest of England.
 Rain fell generally yesterday the largest amount, being 1 inch at Sumburgh Head and Stomsway.

SEA

High on our western and northern coasts, and rough in nearly all other localities.

PROBABLE CHANGES IN SYSTEM NOW PREVALENT

The new depression which has advanced to the north-west of Scotland, will probably travel away in a northeasterly direction, but the distribution of pressure remains favourable for the advance of disturbances from the Atlantic, and unsettled weather is therefore likely to continue.

FORECASTS

for the 24 hours ending at NOON on 17th NOVEMBER 1888.

DISTRICTS.

FORECASTS.

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

SWnd to Wnd gales and strong winds, squally, some rain.
 SWnd winds, strong, a gale in places; squally, some showers.

DISTRICTS.

FORECASTS.

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

SWnd to Wnd strong gales, moderating later, squally, showery.
 SWnd strong winds or gales; squally, showery.
 Same as No 6 and 7.
 Same as No 8.

WARNINGS

The SOUTH CONE was hoisted last evening in districts 2, 3, and 5, and the signals are now flying on all 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.	Dry.	Wet.	Wind.	Wea.	Sea.		Bar.	Dry.	Wet.	Wind.	Wea.	Sea.
Skudesnaes ...	29.79	47	45	SSE 9	r f	7	Holyhead ...	29.97	53	51	W 3	c	4
Sumburgh Head ...	29.23	48	48	WSE 3	r	6	Valencia ...	29.95	54	52	SSE 4	cm	1
Stornoway ...	29.53	49	47	SW 6	bc	6	Scilly ...	30.05	57	57	SW 5	of	5
Aberdeen ...	29.60	53	46	SW 6	b	6	Jersey ...	30.22	57	56	S 5	o	4
Shields ...	29.80	56	51	SW 5	c	3	Dungeness ...	30.13	51	51	SW 6	r	4
Ardrossan ...	29.81	53	48	W 4	c	3	London ...	30.13	56	54	SSW 4	o	4
Malin Head ...	29.80	51	49	WSE 4	bm	4	Yarmouth ...	30.09	50	49	SSW 5	odg	4
Mullaghmore ...	29.86	52	49	SW 4	om	5	Rochefort ...	30.38	57	55	S 4	b	2
Belmullet ...	29.86	53	49	SW 5	o	*							

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

The report for yesterday morning showed that pressure varied from between 30.5 ins. and 30.9 ins. in a high-pressure area lying over the southern half of Russia, and from 30.4 ins. and more over Central Spain to about 30.0 ins. over the southern part of the Mediterranean and to less than 29.4 ins. in a depression, the centre of which lay off our extreme northwest coast. Sth and SWth winds of considerable strength prevailed over the British Islands and their neighbourhood, and were accompanied by very mild, cloudy, damp weather. Over Central and eastern Europe the wind was very light and variable, the weather cold and dry, but foggy in places, whilst over Central Europe the wind was Eth, the weather overcast, and rainy at times. Still further to the southward (over Algeria) there was a severe storm from the Nth, with much rain, and a heavy sea on the coast. Temperature showed a further increase over North-western Europe, but remained very low over Finland, Russia, and Germany. The highest morning readings reported were 68° at Cagliari, 64° at Palermo, 62° at Algiers, Barcelona and Sangüinaria, 56° at Nice, Trieste and Scilly, 55° at Rochepoint, and 51° even at Nain; the lowest were 12° at Humenstadt, 13° at Archangel and at Rzeszów, 17° at Kaupferrassau, 18° at Warsaw, 19° at Breslau, 20° at Riga, 21° at Nicolaieff, 23° at Munich, 24° at Berlin, 28° at Haparanda, and 31° at Vans. At Paris the temperature was 45° and in London 51°.

Later on a fresh depression began to approach Ireland, and severe gales from the Sth set in at our western and northern stations, with an increase of temperature and rough close showery weather.

EXPLANATION OF COLUMNS GIVEN ON PAGE 1.

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

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

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

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for *Saturday, 17th November 1888.*
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STATIONS.	† YESTERDAY EVENING.						8 A.M. TO DAY.										PAST 24 HOURS.		
	Barometer at 32° F. and Sea Level.	Temp. in Shade.	WIND.		Weather.	Reading at 32° F. and Sea Level.	Difference from 8 a.m. yesterday.	SHADE TEMP.			WIND.		Weather.	Sea (0 to 9.)	SHADE TEMP.				
			Dir.	Force (0 to 12.)				Dry.	Wet.	Difference from 8 a.m. yesterday.	Dir.	Force (0 to 12.)			Max.	Min.	Amount of Rainfall.		
SCANDINAVIA.	Haparanda ..													*					
	Hernösand ...													*					
	Stockholm ...													*					
	Wisby ...													*					
	Bodö ...	28.95	37	ENE.	2	0	28.67	- 65	35	32	- 14	E	4	S	2	43	32	0.12	
	Christiansund...	28.64	47	ESE.	6	0	28.99	- 57	42	41	- 2	W	9	T	5	46	39	0.47	
	Skudesnaes ...	29.22	48	W	9	0	29.20	- 47	46	44	+ 1	WSW	8	T	8	?	45	0.28	
	Christiania Fjord (Færdar)	29.13	48	SSW	9	6	29.28	- 60	46	43	0	WSW	8	bc	6	48	45	-	
	Skagen (The Scaw)	29.43	49	W	9	0	29.43	- 53	43	42	0	W	5	bc	2	52	43	0.04	
	Fanö ...	29.82	46	WSW	3	0	29.72	- 32	44	43	+ 2	WSW	6	C	*	42	41	0.04	
BRITISH ISLANDS.	Sumburgh Head	28.99	44	WNW	8	C	28.98	- 69	44	42	- 1	W	6	0	7	51	43	0.38	
	Stornoway ..	29.80	46	W	7	T	29.18	+ 39	41	41	- 8	NW	6	0	6	52	39	0.50	
	Wick ...	29.29	45	NW	5	6	29.18	+ 26	39	38	- 11	NW	4	0	3	52	39	0.03	
	Nairn ...	29.39	45	WSW	3	0	29.25	+ 27	40	40	- 17	WSW	4	op	3	57	34	0.32	
	Aberdeen...	29.46	47	WSW	8	bcy	29.32	+ 11	41	38	- 12	SW	5	bc	4	56	40	0.01	
	Leith ...	29.63	46	SW	6	0	29.44	+ 15	43	41	- 15	WSW	6	or	*	58	40	0.30	
	Shields ...	29.73	41	W	6	C	29.62	+ 10	47	43	- 12	SW	5	bcy	3	60	41	-	
	Spurn Head ...	29.92	53	WSW	6	C	29.81	- 01	47	45	- 9	WSW	6	b	5	?	?	0.15	
	York ...	29.90	52	WSW	6	C	29.77	+ 03	48	44	- 11	WSW	6	b	*	61	44	0.06	
	Loughborough	30.01	51	WSW	4	b	29.94	+ 04	47	46	- 11	WSW	2	C	*	61	46	0.04	
GERMANY.	Ardrossan ...	29.69	49	W	5	bc	29.43	+ 19	46	44	- 6	WSW	6	op	5	53	42	0.70	
	Malin Head ...	29.62	46	WSW	7	op	29.52	+ 51	41	40	- 8	WNW	6	op	6	52	39	0.74	
	Mullaghmore ...	29.76	48	SW	7	op	29.72	+ 52	46	42	- 6	W	9	op	6	52	43	0.32	
	Belmullet ...	29.75	50	WSW	9	0	29.79	+ 33	47	44	- 14	W	9	0	*	52	45	0.32	
	Donaghadee ...	29.79	47	WSW	4	b	29.66	+ 24	45	43	- 9	SW	6	c	4	54	44	0.06	
	Barrow-in-Furness	29.78	50	SW	6	C	29.72	+ 10	50	46	- 4	SW	8	op	*	54	45	0.14	
	Liverpool (Bidston)	29.94	51	WSW	6	b	29.83	+ 08	50	45	- 7	WSW	6	bc	5	57	47	0.02	
	Holyhead ...	29.96	51	WSW	6	bcy	29.85	+ 14	50	47	- 4	WSW	6	cmq	7	55	49	0.01	
	Parsonstown ...	29.95	47	SW	2	b	29.89	+ 25	49	47	- 5	SW	3	T	*	54	45	0.14	
	Valencia ...	30.05	52	WSW	7	bc	30.08	+ 24	53	49	- 1	W	6	op	6	54	50	0.06	
FRANCE & NETHERLANDS.	Roche's Point...	30.07	51	W	4	b	30.02	+ 15	52	48	- 2	WSW	5	bc	5	55	48	-	
	Pembroke ...	30.06	53	SW	6	bc	30.02	+ 10	53	52	- 2	WSW	7	b	6	55	52	0.02	
	Silly ...	30.20	54	W	5	C	30.22	+ 15	54	51	- 3	WSW	6	c	5	57	52	-	
	Prawle Point ...	30.23	54	W	4	C	30.22	+ 11	52	49	- 3	WSW	5	cu	4	55	50	0.02	
	Jersey ...	30.27	57	WSW	4	op	30.30	+ 04	53	49	- 4	W	4	bcy	4	60	51	0.15	
	Hurst Castle ...	30.20	54	WSW	6	C	30.18	+ 03	52	51	- 3	W	6	bc	5	57	51	0.01	
	Dungeness ...	30.16	54	SW	5	0	30.14	- 01	52	49	- 3	W	5	b	4	57	51	0.10	
	London ...	30.15	54	SW	5	C	30.08	- 02	50	46	- 8	SW	3	bc	*	60	47	-	
	Oxford ...	30.15	51	SW	4	C	30.05	+ 02	49	47	- 8	SSW	5	cu	*	59	47	0.06	
	Cambridge ...	30.07	52	S	2	C	29.99	- 02	49	47	- 9	SW	4	C	*	61	46	0.02	
PENINSULA.	Yarmouth ...	30.04	55	WSW	4	bc	29.96	- 07	47	45	- 9	WSW	4	b	4	59	45	-	
	Cuxhaven ...	30.04	43	SW	6	b	29.92	- 28	46	45	+ 3	SW	5	b	*	50	43	-	
	Berlin ...	30.24	39	SSW	1	b	30.10	- 29	42	41	+ 12	SW	3	b	*	45	?	-	
	Wiesbaden ...	*	*	*	*	*	30.29	- 18	41	41	+ 4	SW	0	0	*	41	?	-	
	Munich ...	30.45	29	W	2	b	30.39	- 08	44	44	0	SW	2	m	*	34	23	-	
	The Helder ...	30.05	50	SW	4	bc	29.96	- 16	47	45	0	SW	5	b	4	50	46	-	
	Brussels ...	*	*	*	*	*	30.19	- 11	51	49	+ 1	WSW	5	b	*	54	?	0.04	
	Cape Gris Nez...																		
	Paris ...	30.27	51	SSW	3	b	30.32	- 08	50	50	+ 9	SW	3	0	*	54	?	-	
	Brest ...	30.30	56	W	4	0	30.33	+ 11	53	50	- 14	NW	5	0	3	57	?	0.12	
PENINSULA.	Lorient ...	30.32	59	WSW	5	0	30.39	+ 10	53	52	- 4	W	3	b	4	59	52	-	
	Rochefort ...	30.44	55	SSE	4	0	30.43	- 01	54	54	+ 7	S	4	0	2	61	?	-	
	Belfort ...	30.39	39	W	1	T	30.39	- 06	42	42	+ 2	W	1	b	*	44	36	-	
	Lyons ...	30.48	46	SE	1	b	30.46	- 04	41	41	- 3	NNE	1	b	*	52	38	-	
	Nice ...	30.45	54	SSW	3	C	30.40	- 02	52	51	- 2	ESE	1	0	1	59	48	-	
	Perpignan ...	30.43	49	2	0	0	30.43	- 02	42	42	+ 1	SW	3	b	*	58	40	-	
	Biarritz ...	30.40	56	2	0	m	30.42	+ 04	50	48	+ 4	SW	4	b	3	61	?	-	
	Corunna ...	*	*	*	*	*													
	Lisbon ...	30.39	59	N	5	b	30.39	00	51	48	0	NNE	5	b	2	63	50	-	

WEATHER CHARTS

for 8 a.m. on Saturday, 17th November, 1888.

BAROMETER, WIND & SEA.

(Explanation of Map)

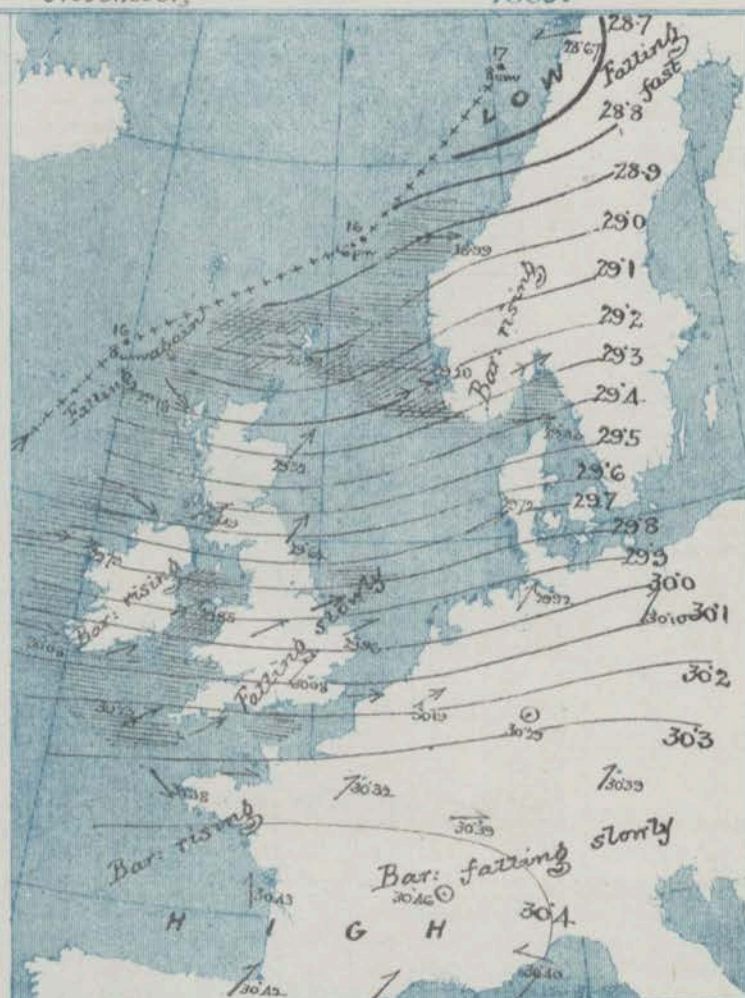
Barometer — Iso-bars are drawn for each tenth of an inch. Changes since previous morning are stated in words.
Wind — Arrows show the prevalent winds. They fly with the wind and their barbs and feathers refer to force, thus —
 — = forces above 10; — = forces 8 to 10;
 — = forces 5 to 7; — = forces 1 to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

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

MEAN HEIGHT of the BAROMETER

at 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	29.756
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.	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	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	4.56
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	4.24
Hurst Castle	50.5	40.3	44.6	43.6	2.98
Dover	40.1	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 1866—85.



GENERAL SITUATION AT 8 A.M.

PRESSURE

Highest, 30.4 in. and upwards, over the southern parts of France, and the Bay of Biscay.
Lowest, 28.7 in. and less, in a depression lying off the northwest of Norway.
Gradients steep over our islands, the North Sea and Scandinavia, but slight over Germany and France.
Barometer falling in most localities, but rising in Norway, and the southeast of our islands.

TEMPERATURE

Highest, 54° at Seilly and Rochefort, 53° at Valencia, Pembroke, Jersey, Brest, and Lorient, and 52° at Rocher Point, Traual Point, Hurst Castle, and Quingones.
Lowest, 24° at Munnich, 35° at Bodø, 39° at Kirk, 40° at Kinn, and 41° at Stromway, Aberdeen, Nicolson and Lyons.
During yesterday the thermometer rose to 60° at Shilds, Jersey, and in London, and 61° at York, Loughborough, and at Cambridge.

WIND

Strong to gale from the West or S.W. over our islands, the North Sea, and the south of Scandinavia.
Light or moderate from the same quarters in France and Germany; moderate from E. at Bodø.
Severe gales from the W. were experienced yesterday over the northern parts of the United Kingdom.

WEATHER

Squally and showery over the greater part of our islands, and rainy in the west of Norway; snow is falling at Bodø.
Fog is reported at some of the French and German stations.
Rain fell generally yesterday, the largest amount being 0.7 in. at Ardrossan and Malin H.

SEA

High at Lumburgh H. and Holyhead, and rough or rather so on nearly all other parts of our coast.

PROBABLE CHANGES IN SYSTEM NOW PREVALENT

The deep depression of yesterday has travelled away from the neighbourhood of our islands, but secondary disturbances are apparently forming over our northern districts, and rough squally weather is likely to continue generally.

FORECASTS

for the 24 hours ending at NOON on 18th November 1883.

DISTRICTS.

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

FORECASTS.

W^{ly} and NW^{ly} winds, strong and squally; unsettled, some cold showers.
SW^{ly} winds, strong, a gale in places; squally, some showers with bright intervals.

DISTRICTS.

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

FORECASTS.

Same as Nos 0 and 1.

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

WARNINGS

The SOUTH CONE was re-hoisted last evening in districts 0, 1, and 6 to 10, and the signals are still flying on all coasts.

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

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

YESTERDAY'S 2 P.M. REPORTS.

	Bar.	Dry.	Wet.	Wind.	Wes.	Sea.		Bar.	Dry.	Wet.	Wind.	Wes.	Sea.
Skudesnaes ...	29.72	81	49	S 10	0	6	Holyhead ...	29.88	53	48	WSW 7	c q	6
Sambargh Head ...	28.65	48	47	SW 7	r	7	Valencia ...	30.02	54	49	WSW 6	b q	6
Stornoway ...	29.16	47	46	W 7	0	6	Scilly ...	30.17	56	54	WSW 6	om	6
Aberdeen ...	29.18	53	46	WSW 9	bc	8	Jersey ...	30.25	58	57	SW 5	0	4
Shields ...	29.62	55	50	W 8	bc	3	Dungeness ...	30.10	56	55	SW 6	r	5
Ardrossan ...	29.57	50	47	W 6	c	6	London ...	30.08	60	57	WSW 5	o q	*
Malin Head ...	29.87	49	45	W 6	0	6	Yarmouth ...	29.97	59	57	SW 6	c	4
Mullaghmore ...	29.74	50	47	WSW 7	c	6	Rochefort ...	30.44	59	55	S 4	b	2
Belmullet ...	29.77	50	46	WSW 7	bc	*							

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

The reports for yesterday morning showed that pressure was high over Eastern, Central, and Southern Europe, and ranged from 30.8 ins. over Southern Russia and the Black Sea, and from 30.1 ins. and more over Spain to considerably below 29 ins. in a depression, the centre of which lay off our extreme northwest coast, and was moving rapidly to the northeastward. SW^{ly} winds, varying from a fresh breeze to a very strong gale in force, prevailed over Northern Europe and our Islands, accompanied by squally, showery unsettled weather; over Eastern and Central Europe the wind was light and variable and the weather fair, while over the Mediterranean the wind was NE^{ly} and the weather fine. Over Algeria the wind had veered End, but the gale was beginning to subside, though large quantities of rain had again fallen. Temperature had risen considerably over Northwestern and Northern Europe, but had decreased somewhat in the east and south, and the morning readings ranged from 60° and more in many parts of the Mediterranean, and from upwards of 50° over nearly the whole of the British Isles to much below the freezing point over Poland, Russia, and the shores of the White Sea. The highest individual values were 65° at Cagliari, 63° at Algiers and Tunis, 60° at Palermo, 55° at York, 58° in London, 57° at Brindisi, Brest, Seilly, and Naini, and 53° at Aberdeen. The lowest were 8° at Hermannstadt, 15° at Cracow, 16° at Ruda-Ruth, 17° at Warsaw and Lemberg, 24° at Munich, 26° at Archangel, and 30° at Berlin. The area of frost was therefore receding to the eastward.

During the day the SW^{ly} gales were very severe in the west and north of our Islands, but were of little force in the south, and rain fell in most places, chiefly in the northwest.

EXPLANATION OF COLUMNS GIVEN ON PAGE 1.

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

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

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

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

DAILY WEATHER REPORT.

for Sunday 18th November 1888.
Issued by the Meteorological Office, 116, Victoria Street, London. R. H. SCOTT, Secretary.

		† YESTERDAY EVENING.					8 A.M. TO DAY.										PAST 24 HOURS.		
STATIONS.		Barometer at 32° F. and Sea Level.	Temp. in Shade.	WIND.		Weather.	BAROMETER.		SHADE TEMP.			WIND.		Weather.	Sea. (0 to 2.)	SHADE TEMP.		Amount of Rainfall.	
				Dir.	Force (0 to 12.)		Reading at 32° F. and Sea Level.	Difference from 8 a.m. yesterday.	Dry.	Wet.	Difference from 8 a.m. yesterday.	Dir.	Force (0 to 12.)			Max.	Min.		
SCANDINAVIA.	Haparanda ..	28.71	30	N	2	0	28.84		24	23		NNE	2	0	*	36	?	—	
	Hernösand ...	28.92	39	SW	2	0	29.06	+ .26	30	29	—	7	0	*	46	?	—		
	Stockholm ...	29.10	42	SW	4	0	29.14	— .08	37	35	—	WSW	4	0	*	50	?	—	
	Wisby ...	29.36	41	WSW	8	0	29.56	— .27	41	40	—	NW	6	0	*	18	39	—	
	Bodö ...	28.87	35	SW	4	0	28.95	+ .25	36	35	—	WSW	6	0	3	37	32	0.08	
	Christiansand...	29.02	41	SW	4	0	29.26	+ .27	40	37	—	WSW	8	0	5	43	37	0.39	
	Skudesnaes ...	29.13	42	WSW	4	0	29.50	+ .30	42	39	—	WNW	5	0	6	46	39	—	
	Christiania Fjord (Farder)	29.11	44	N	5	0	29.08	— .00	37	36	—	W	4	0	4	46	?	—	
	Skagen (The Scaw)	29.71	39	W	8	0	29.92	— .11	41	39	—	NW	3	0	2	45	39	0.32	
	Fanö ...	29.50	41	W	6	0	29.61	— .11	44	40	—	WNW	6	0	*	46	41	0.12	
BRITISH ISLANDS.	Sumburgh Head	29.20	43	NNW	4	0	29.47	+ .49	44	42	—	WNW	1	0	5	45	40	0.36	
	Stornoway ...	29.45	45	NW	6	0	29.60	+ .42	46	46	—	W	5	0	5	46	38	0.40	
	Wick ...	29.35	38	NW	4	0	29.59	+ .14	42	41	—	SW	3	0	2	43	37	0.28	
	Nairn ...	29.50	42	WSW	3	0	29.62	+ .37	43	43	—	WSW	2	0	2	44	37	0.14	
	Aberdeen...	29.46	42	WSW	5	0	29.70	+ .28	39	37	—	SW	2	0	2	44	39	0.01	
	Leith ...	29.62	41	WSW	4	0	29.75	+ .11	45	43	—	WSW	3	0	*	45	39	0.15	
	Shields ...	29.65	39	W	5	0	29.83	+ .21	45	43	—	WSW	2	0	2	49	38	0.02	
	Spurn Head ...	29.77	47	WSW	6	0	29.92	+ .11	43	41	—	SW	3	0	4	51	41	0.06	
	York ...	29.78	43	SW	3	0	29.91	+ .14	43	42	—	SSE	1	0	*	52	38	0.12	
	Loughborough	29.91	47	WSW	4	0	29.98	+ .04	46	45	—	SW	1	0	*	54	43	0.06	
GERMANY.	Ardrossan ...	29.63	46	W	6	0	29.76	+ .28	49	49	—	WSW	3	0	3	49	48	0.12	
	Malin Head ...	29.41	45	W	7	0	29.75	+ .23	49	49	—	WSW	3	0	3	49	41	0.22	
	Mullaghmore ...	29.88	48	W	7	0	29.81	+ .09	51	50	—	SW	5	0	4	51	45	0.25	
	Belmullet ...	29.94	49	W	6	0	29.84	+ .05	53	51	—	W	4	0	*	53	44	0.40	
	Donaghadee ...	29.80	43	W	4	0	29.82	+ .10	46	46	—	SW	3	0	2	48	42	0.16	
	Barrow-in-Furness	29.87	47	W	6	0	29.86	+ .14	48	48	—	SW	3	0	*	50	45	0.15	
	Liverpool (Bidston)	29.86	47	W	7	0	29.93	+ .10	48	47	—	SSW	2	0	3	51	44	0.37	
	Holyhead ...	29.98	49	W	6	0	29.94	+ .09	51	49	—	WSW	5	0	5	51	45	0.18	
	Parsonstown ...	30.00	47	SW	2	0	29.91	+ .12	50	49	—	SW	1	0	*	51	43	0.19	
	Valencia ...	30.14	53	W	5	0	29.98	— .10	56	54	—	WSW	4	0	4	56	51	0.06	
FRANCE & NETHERLANDS.	Roche's Point...	30.09	52	W	4	0	29.98	— .04	53	52	—	WSW	4	0	4	55	50	—	
	Pembroke ...	30.07	50	W	4	0	30.03	+ .01	51	51	—	WSW	4	0	4	51	50	0.06	
	Scilly ...	30.19	54	WNW	7	0	30.12	— .10	53	51	—	WSW	5	0	6	55	51	—	
	Prawle Point ...	30.17	52	W	4	0	30.13	— .09	52	50	—	W	4	0	4	55	50	—	
	Jersey ...	30.24	55	WSW	5	0	30.20	— .10	55	51	—	WSW	4	0	4	57	52	0.01	
	Hurst Castle ...	30.10	52	W	7	0	30.10	— .08	52	50	—	W	7	0	5	55	51	0.04	
	Dungeness ...	30.02	53	W	5	0	30.07	— .07	50	49	—	WNW	4	0	4	56	48	0.01	
	London ...	30.05	51	W	3	0	30.05	— .03	49	48	—	WSW	2	0	*	54	46	0.02	
	Oxford ...	30.02	47	W	4	0	30.04	— .01	50	49	—	WSW	2	0	*	55	48	0.02	
	Cambridge ...	29.94	50	SW	3	0	30.01	+ .02	45	45	—	7	0	*	56	42	0.04		
PENIN- SULA.	Yarmouth ...	29.87	46	W	4	0	29.97	+ .01	42	41	—	W	2	0	3	52	39	0.05	
	Cuxhaven ...	29.75	42	WSW	7	0	29.78	— .14	43	42	—	W	5	0	*	46	41	0.04	
	Berlin ...	29.89	44	WSW	5	0	29.84	— .26	48	41	—	W	4	0	*	50	41	0.04	
	Wiesbaden ...	30.07	48	W	2	0	30.07	— .22	48	45	—	W	2	0	*	50	43	0.12	
	Munich ...	30.16	42	W	2	0	30.16	— .23	42	41	—	SW	5	0	*	?	25	0.04	
	The Helder ...	29.82	48	WSW	5	0	29.92	— .04	46	?	—	WNW	3	0	4	50	43	0.04	
	Brussels ...	30.09	47	W	4	0	30.09	— .10	47	45	—	WSW	3	0	*	54	46	—	
	Cape Gris Nez...	30.04	54	WNW	9	0	30.08	— .07	51	?	—	WSW	5	0	6	55	48	0.04	
	Paris ...	30.25	49	WSW	3	0	30.20	— .12	47	46	—	SW	3	0	*	59	45	—	
	Brest ...	30.35	54	NW	5	0	30.39	+ .01	53	49	—	SSW	4	0	4	57	?	—	
PENIN- SULA.	Lorient ...	30.34	55	WNW	7	0	30.26	— .13	54	53	—	SSW	3	0	4	57	52	—	
	Rochefort ...	30.38	55	NW	4	0	30.34	— .09	53	52	—	WSW	4	0	2	59	43	0.30	
	Belfort ...	30.32	39	W	1	0	30.33	— .06	42	42	—	W	1	0	*	49	39	0.08	
	Lyons ...	30.39	45	SSW	?	0	30.32	— .14	44	44	—	NNW	1	0	*	47	43	—	
	Nice ...	30.35	49	NW	4	0	30.19	— .21	48	48	—	ESE	3	0	0	52	45	0.35	
	Perpignan ...	30.36	47	2	0	0	30.30	— .13	48	46	—	W	3	0	*	63	41	—	
	Biarritz ...	30.39	57	WSW	3	0	30.33	— .09	55	54	—	WSW	4	0	6	61	?	0.04	
	Corunna ...	30.42	57	N	3	0	30.42	— .02	51	50	—	ESE	1	0	*	64	48	0.12	
	Lisbon ...	30.34	57	N	3	0	30.34	— .05	50	49	—	N	2	0	*	62	58	—	

For Explanation of Columns, see p. 4.

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

WEATHER CHARTS

for 8 a.m. on

Sunday, 18th November

1888.

BAROMETER, WIND & SEA.

(Explanation of Map)

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

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

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

○ = dead calm.

Sea Disturbance — where considerable, is shown thus.

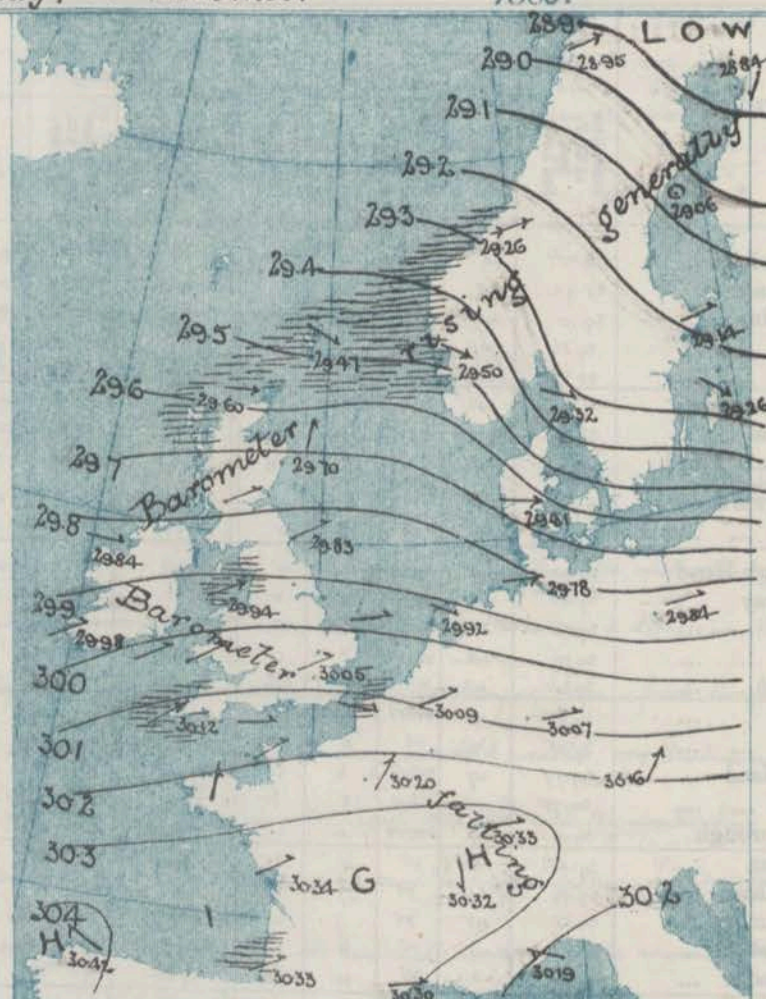
— Rough — High.

MEAN HEIGHT of the BAROMETER

at 8 a.m. for the month of 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	29.885
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.

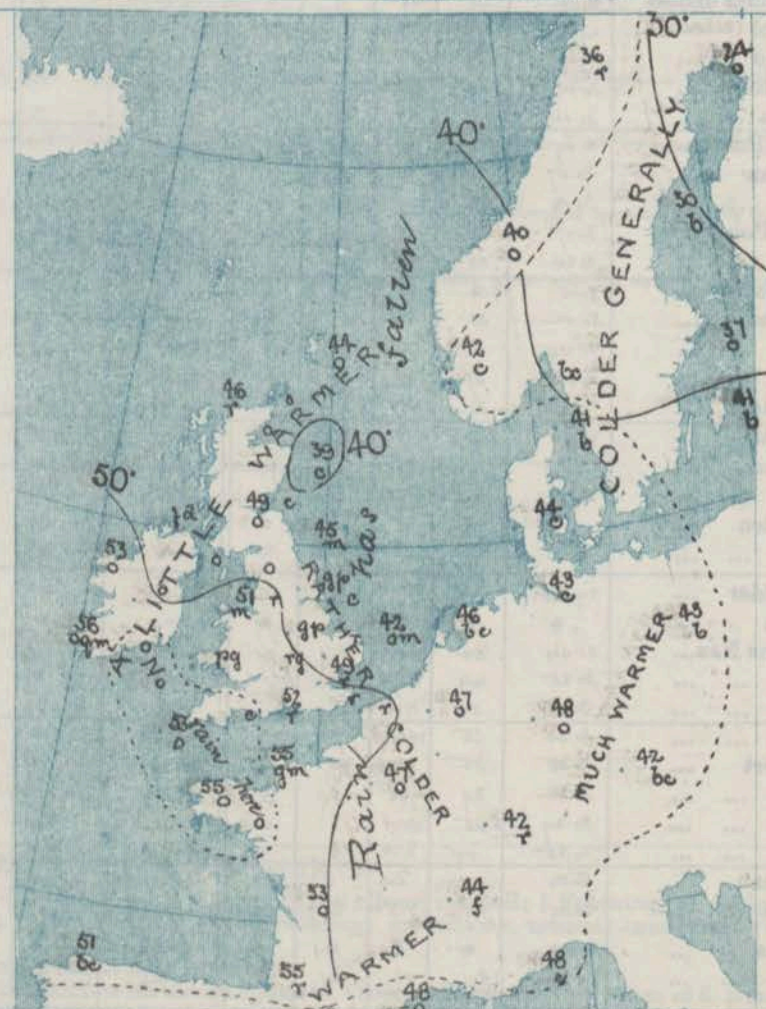
MEANS OF TEMPERATURE IN SHADE.

AND RAINFALL.

for the month of November

STATIONS	TEMPERATURE.				RAINFALL. (Inches)
	Daily Max	Daily Min	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	40.8	39.0	2.21
Loughborough	48.0	36.4	40.2	38.9	2.30
Ardrossan	47.7	38.9	42.6	40.8	3.02
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	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
Scilly	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	2.93
Dover	49.1	40.7	44.0	42.4	3.56
LONDON	49.8	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	2.02
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, 30.42 in: at Corunna; 30.3 in: and upwards over the whole of the Iberian Peninsula and the greater part of France. Lowest, 28.9 in: and less, over the north of Scandinavia. Gradient moderate. Barometer rising in Scandinavia and the north of our islands, but falling elsewhere.
TEMPERATURE	{ Highest, 56° at Valencia, 55° at Jersey, Brest, and thence, 54° at Lorient, and 53° at Belmullet, Rocher Point, Sully and Rochefort. Lowest, 24° at Haparanda, 30° at Skunsund, 36° at Rost, 37° at Stockholm, 40° at Christiansund, 41° at Skagen and 42° at Skutumpah.
WIND	{ Chiefly W ¹ or SW ¹ ; light to fresh in force generally, but strong to a gale in the north-west of Norway. At Aker and Corunna a light E breeze is reported, and at Lulea a light N wind.
WEATHER	{ Cloudy or overcast in most parts of North-western Europe, with rain over England and also in the Hebrides. Fine at most of the Swedish, Danish, and German stations, as well as in Spain. Since yesterday rain has fallen in most places.
SEA	{ Rough off the coast of Norway and rather rough on the more exposed parts of our western, northern and southern coasts.

PROBABLE CHANGES IN SYSTEM NOW PREVALENT

The depression noticed yesterday off the north-west of Norway has now passed away to Northern Russia. Shallow and ill-defined secondary disturbances are, however, moving across our islands from the W¹, and the general appearance remains very unsettled.

FORECASTS

for the 24 hours ending at NOON on 13th Nov^r 1888.

DISTRICTS.

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

FORECASTS.

NONE ISSUED

DISTRICTS.

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

WARNINGS

FORECASTS.

NONE ISSUED

The SOUTH CONE has been hoisted this morning in district 5, and is still flying 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.

	Bar.	Dry.	Wet.	Wind.	Wes.	Sea.		Bar.	Dry.	Wet.	Wind.	Wes.	Sea.
Skudesnaes ...	29.19	46	42	WSW 8	c	7	Holyhead ...	29.88	49	46	W 7	omg	6
Sambargh Head ...	29.00	43	42	NNW 4	o	7	Valencia ...	30.12	50	52	W 5	omg	5
Stornoway ...	29.35	44	43	NNW 6	cpq	5	Scilly ...	30.20	55	52	W 6	bc	5
Aberdeen ...	29.38	42	38	W 6	bcq	5	Jersey ...	30.26	50	51	W 5	c	4
Shields ...	29.60	43	42	WSW 5	c	2	Dungeness ...	30.01	55	52	W 7	c	6
Ardrossan ...	29.61	46	44	W 6	b	5	London ...	30.02	54	50	W 5	cg	*
Malin Head ...	29.65	44	42	W 6	b	6	Yarmouth ...	29.80	52	49	WSW 5	bc	4
Mullaghmore ...	29.32	48	44	W 7	c	7	Rochefort ...	30.10	59	57	SW 5	o	2
Belmullet ...	29.85	50	45	NNW 9	ogphr	*							

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

The report for yesterday morning showed that pressure was highest, 30.5 ins. and upwards, in a large anticyclone extending from the Black Sea to the Adriatic and Northern Italy, and high, 30.4 ins. and upwards, in another system lying over Spain and France. The lowest reading, 29.7 ins. and less, were found in a large and deep depression lying over Lapland and Finland. The wind was strong to gale from W or SW over all the more northern parts of Europe, but variable at the Italian and Algerian stations, and E (NE to SE) in Spain. The weather was squally and showery over the greater part of our Islands, and rainy in some parts of Scandinavia and Russia as well as in Algeria. At the Italian and Spanish stations, however, conditions were mostly fair. Temperature had fallen several ~~degrees~~ degrees in our Islands and to a less extent over Southern Europe, but, risen elsewhere, and readings ranged from 55° and upwards over Algeria, Spain, and the southern parts of France and Italy to several degrees below the freezing point over Austria and the central and southern parts of Russia. The highest individual readings were 64° at Longjumeau, 60° at Algiers, 59° at Barcelona and Palermo, 58° at Cagliari, 57° at Prindiri, 56° at La Loube, and 55° at Chassins. The lowest were 10° at Hermannstadt, 19° at Kiev, 21° at Rada Path, 22° at Charkov, and 24° at Lemberg, Nikolaieff and Odessa.

In the course of the day the barometer rose somewhat on our northern coasts, and the winds gradually subsided in force. The weather, however, remained unsettled with showers in places.

EXPLANATION OF COLUMNS GIVEN ON PAGE 1.

WEATHER.—Beaufort Scale is b. blue sky; c. detached clouds; d. drizzle; g. 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, 19th November 1888.*
Issued by the Meteorological Office, 116, Victoria Street, London. R. H. SCOTT, Secretary.

STATIONS.		+ YESTERDAY EVENING.					8 A.M. TO DAY.										PAST 24 HOURS.		
		Barometer at 32° F. and Sea Level.	Temp. in Shade.	WIND.		Weather.	BAROMETER.		SHADE TEMP.			WIND.		Weather.	Sea. (0 to 9.)	SHADE TEMP.		Amount of Rainfall.	
				Dir.	Force. (0 to 12.)		Reading at 8 A.M. and Sea Level.	Difference from 8 A.M. yesterday.	Dry.	Wet.	Difference from 8 A.M. yesterday.	Dir.	Force. (0 to 12.)			Max.	Min.		
SCANDINAVIA.	Haparanda ..	28.99	25	NNE	3	0	29.09	+ 25	20	19	- 4	2	0	C	*	32	?	0. 12	
	Hernösand ...	29.21	33	NW	3	0	29.16	+ 10	23	23	- 7	2	0	C	*	39	?	-	
	Stockholm ...	29.33	34	NW	2	0	29.31	+ 17	33	32	- 4	WSW	2	C	*	45	32	-	
	Wisby ...	29.39	42	WNW	6	0	29.42	+ 16	41	40	0	SW	4	C	*	45	37	0. 12	
	Bodö ...	29.06	38	WSW	6	0	28.95	- 00	29	27	- 7	NNE	4	C	2	39	27	0. 24	
	Christiansund...	29.21	39	WSW	6	0	28.85	- 41	38	37	- 2	SE	7	C	4	?	36	0. 20	
	Skudesnaes ...	29.43	45	W	6	0	29.20	- 30	47	46	+ 5	WSW	7	C	5	?	?	0. 12	
	Christiania Fjord (Fjorder)	29.41	43	WSW	5	0	29.24	- 04	44	42	+ 7	SW	5	C	4	45	?	-	
	Skagen (The Scaw)	29.43	42	W	2	0	29.36	+ 04	42	40	+ 1	W	2	C	2	45	39	0. 12	
	Fanö ...	29.67	43	WSW	4	C	29.55	- 06	45	45	+ 1	SW	4	C	*	46	41	0. 02	
BRITISH ISLANDS.	Sumburgh Head	29.41	45	WNW	3	C	29.01	- 46	47	45	+ 3	W	6	C	6	49	44	0. 19	
	Stornoway ..	29.56	45	W	4	0	29.24	- 36	50	50	+ 4	W	8	C	6	50	43	0. 10	
	Wick ...	29.54	42	NW	3	0	29.23	- 36	50	46	+ 8	NW	6	C	2	50	39	0. 02	
	Nairn ...	29.58	48	2	0	0	29.31	- 31	51	50	+ 8	SW	3	C	2	53	42	0. 02	
	Aberdeen...	29.62	46	SW	1	Op	29.37	- 33	50	45	+ 11	SW	2	0	2	50	39	0. 01	
	Leith ...	29.66	50	W	4	C	29.50	- 25	51	48	+ 6	W	5	C	*	53	45	0. 01	
	Shields ...	29.73	52	SW	1	m	29.61	- 22	52	50	+ 7	WSW	5	C	2	52	43	-	
	Spurn Head ...	29.80	50	WSW	3	C	29.75	- 17	50	48	+ 7	WSW	5	C	4	51	43	0. 02	
	York ...	29.81	50	S	1	m	29.74	- 17	51	49	+ 8	WSW	4	C	*	52	42	0. 03	
	Loughborough	29.90	52	SW	3	0	29.88	- 10	50	47	+ 4	WSW	2	Op	*	55	45	0. 01	
GERMANY.	Ardrossan ...	29.71	51	WNW	5	C	29.62	- 14	52	51	+ 3	WSW	5	Op	4	52	48	0. 03	
	Malin Head ...	29.76	49	W	4	Op	29.58	- 17	51	50	+ 2	W	5	Op	5	51	43	0. 10	
	Mullaghmore ...	29.87	50	WSW	5	p	29.76	- 11	51	51	+ 0	SW	6	Op	5	52	50	0. 10	
	Belmullet ...	29.90	51	W	5	0	29.78	- 06	53	52	+ 0	WSW	7	C	*	53	50	0. 08	
	Donaghadee ...	29.82	52	WNW	3	C	29.74	- 08	52	50	+ 6	W	4	C	2	53	46	-	
	Barrow-in-Furness	29.81	50	SW	5	C	29.76	- 10	50	49	+ 2	NW	5	C	*	51	48	0. 04	
	Liverpool (Bidston)	29.85	52	WSW	5	0	29.82	- 11	51	49	+ 3	WSW	5	C	4	52	48	0. 02	
	Holyhead ...	29.90	53	WSW	3	Op	29.86	- 08	52	51	+ 1	WSW	4	C	4	54	50	0. 01	
	Parsonstown ...	29.95	50	WSW	1	0	29.90	- 01	52	50	+ 2	W	2	C	*	51	49	0. 02	
	Valencia ...	30.06	52	W	3	Op	30.02	+ 04	52	53	- 2	W	4	Op	4	56	50	0. 13	
FRANCE & NETHERLANDS.	Roche's Point...	30.02	54	W	3	C	29.96	- 02	52	50	- 1	W	3	C	4	56	49	-	
	Pembroke ...	29.97	53	WSW	4	C	29.93	- 05	52	52	0	WSW	4	Op	4	54	52	0. 01	
	Silly ...	30.06	54	WNW	5	Op	30.09	- 03	53	52	0	WNW	5	Op	5	55	50	0. 02	
	Prawle Point ...	30.06	53	WSW	4	C	30.07	- 06	51	50	- 1	W	5	C	4	54	49	0. 07	
	Jersey ...	30.14	54	W	4	0	30.14	- 06	54	52	- 1	W	5	Op	4	56	52	0. 09	
	Hurst Castle ...	30.05	53	W	6	Op	30.02	- 08	52	51	0	W	6	C	4	55	50	0. 02	
	Dungeness ...	30.01	52	W	4	0	29.97	- 10	52	51	+ 2	W	5	C	4	54	50	0. 09	
	London ...	29.99	52	WSW	2	0	29.95	- 10	52	50	+ 3	WSW	2	C	*	53	49	0. 01	
	Oxford ...	29.97	52	SW	3	0	29.94	- 10	50	48	0	WSW	3	C	*	53	49	0. 01	
	Cambridge ...	29.95	50	S	1	0	29.89	- 12	50	48	+ 5	SW	1	C	*	56	39	-	
PENIN-SULA.	Yarmouth ...	29.91	50	W	3	Op	29.85	- 12	49	47	+ 7	W	4	C	3	51	40	0. 01	
	Cuxhaven ...	29.86	43	W	5	0	29.71	- 07	47	46	+ 4	W	5	C	*	48	43	0. 24	
	Berlin ...	29.93	44	W	3	0	29.76	- 08	47	44	+ 4	SW	5	C	*	46	39	0. 08	
	Wiesbaden ...	*	*	*	*	*	30.06	- 01	49	48	+ 1	SW	3	C	*	50	32	0. 04	
	Munich ...	30.18	44	W	2	0	30.20	+ 04	43	41	+ 1	SW	5	C	*	48	41	?	
	The Helder ...	29.86	48	SW	3	C	29.79	- 07	49	48	-	SW	4	C	3	50	46	-	
	Brussels ...	*	*	*	*	*	30.03	- 06	50	49	+ 3	WSW	3	C	*	50	?	0. 08	
	Cape Gris Nez...	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	
	Paris ...	30.19	50	SW	3	C	30.16	- 04	49	48	+ 2	SW	4	C	*	54	44	-	
	Brest ...	30.16	55	NW	5	0	30.23	- 16	52	51	- 3	SW	4	C	4	57	?	-	

For Explanation of Columns, see p. 4.

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

WEATHER CHARTS

for 8 a.m. on

Monday, 19th November,

1888.

BAROMETER, WIND & SEA.

(Explanation of Map)

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

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

→ = forces above 10; → = forces 8 to 10;
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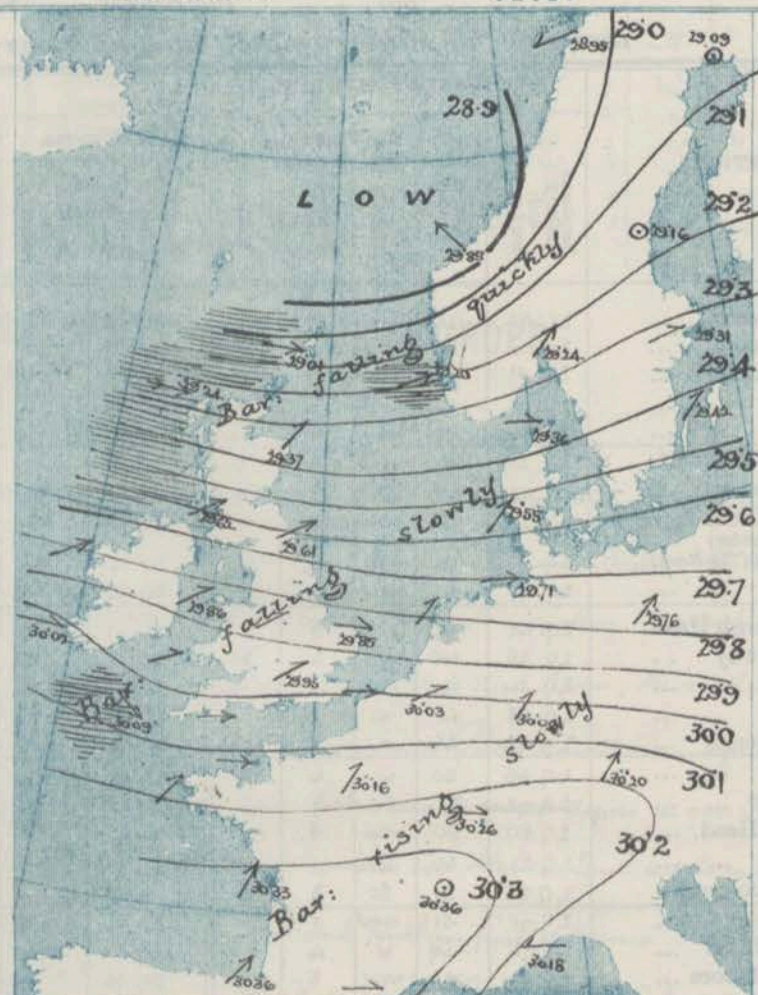
— Rough — High.

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
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Donaghadee	29.811
Holyhead	29.835
Liverpool	29.852
Parsonstown	29.848
Valencia	29.864
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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



GENERAL SITUATION AT 8 A.M.

PRESSURE

Highest, 30.20 in. to 30.35 in. and more, over France, Spain and Mediterranean.
Lowest, 28.3 in. and less, in a large depression lying off the west of Norway.
Gradients steep in north, and increasing; moderate in south.
Barometer falling fast in far north; steady in south.

TEMPERATURE

Highest, 55° at Rochefort, 54° at Jersey, Oxford and Valencia, and above 50° at almost all our own stations.
Lowest, 20° at Haparanda, 23° at Helsingfors, 29° at Rode, 33° at Stockholm, and 43° at the Scaur.
It has risen considerably at our northern and northwestern stations since yesterday.

WIND

W^{ly} throughout our islands — moderate at the southern stations.
Strong in the north, and blowing a gale at Stromsøy.
In the north of Norway it is E^{ly} — a gale at Christianund. In the north of Sweden it is calm.

WEATHER

Very rainy in the extreme north, showery in the northwest and west, and in France. Cloudy generally elsewhere.
Appearances very unsettled in north, fair as a whole in south.

SEA

Rough in far north, moderate on our other coasts, moderate to smooth in the Bay of Biscay.

PROBABLE CHANGES IN SYSTEM NOW PREVALENT

As the depression off the Norwegian coast will probably move southeastwards it is very likely that NW^{ly} gales will be experienced on our northern and northern coasts shortly. The North Cone has therefore been hoisted in those regions this morning. The south cone has been lowered at the Channel stations, as the appearance is not now threatening for the southern districts.

FORECASTS

for the 24 hours ending at NOON on 20th NOVEMBER, 1888.

DISTRICTS.

FORECASTS.

0	SCOTLAND NORTH	NW ^{ly} winds, strong to a gale; cold showers very unsettled.
1	SCOTLAND EAST	
2	ENGLAND N.E.	W ^{ly} to NW ^{ly} winds, fresh to strong; squally, cloudy, some showers, becoming colder.
3	ENGLAND EAST	
4	MIDLAND COUNTIES	Wind veering to NW. with colder weather, fair to showery.
5	ENGLAND SOUTH	

DISTRICTS.

FORECASTS.

6	SCOTLAND WEST	Same as N ^o 0 and 1.
7	ENGLAND N.W.	
8	ENGLAND S.W.	Same as N ^o 2 and 3.
9	IRELAND NORTH	
10	IRELAND SOUTH	NW ^{ly} breezes, moderate to fresh; fair, colder.

WARNINGS

The N. CONE has been hoisted this morning in districts 0, 1, 6 and part of 7 and 9. The S. CONE has been lowered in district 5.

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

YESTERDAY'S 2 P.M. REPORTS.

	Bar.	Dry.	Wet.	Wind.	Wet.	Sea.		Bar.	Dry.	Wet.	Wind.	Wet.	Sea.
Skudesnaes ...	29.50	45	44	W 4	0	5	Holyhead ...	29.88	53	52	WSW 4	0pm	4
Sumburgh Head ...							Valencia ...						
Stornoway ...	29.59	49	49	W 4	0	4	Scilly ...						
Aberdeen ...							Jersey ...	30.15	55	53	WSW 5	0	4
Shields ...							Dungeness ...	30.01	53	51	W 4	0	4
Ardrossan ...							London ...						*
Malin Head ...	29.74	50	50	W 4	0	5	Yarmouth ...						
Mullaghmore ...							Rochefort ...	30.32	56	55	SW 3	0	2
Belmullet ...	29.90	51	50	WSW 5	0	*							

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

The reports for yesterday morning showed that two large anticyclones existed over Southern Europe:—one over Spain and the South of France, and the other over Turkey, Asia Minor and the Black Sea. The lowest readings 28.7 inches and less were found in a depression lying over the White Sea. The wind was W. or S.W. over all the more northern parts of Europe and, although moderate or fresh in force generally, it blew with the force of a gale at some of the Scandinavian and Baltic Stations. Over Italy, Spain and Algeria, however, light or moderate breezes from between North and East were reported. The weather was fine at some of the extreme southern stations, but cloudy or overcast elsewhere, with rain in many parts of North Western Europe. Temperature had changed rather irregularly, but the general tendency was for a slight fall; readings ranged from 58° and upwards over Spain, Italy, Algeria and the South of France to a few degrees below the freezing point over Lapland and Finland as well as in Austria and the South of Russia. The highest individual readings were 66° at Malta, 61° at Marrakech, 60° at Algiers, 59° at Tunis, 58° at Brindisi and Trieste, 56° at Palermo and 55° at Biarritz and Bilbao; the lowest were 28° at Archangel, 24° at Kaperanda and Charkov, 25° at Rernstadt, 26° at Buda Pesth, 28° at Uleaborg, and Vienna and 30° at Kunsand, Kiev and Odessa. In the course of the day some shallow and ill defined depressions passed eastwards across the United Kingdom, occasioning showers in places, but no fresh increase of wind.

SUMMARY OF CHANGES IN THE WEATHER OVER THE BRITISH ISLANDS AND THEIR NEIGHBOURHOOD FROM THE 11TH TO THE 17TH November 1888.

The weather of the past week has been exceedingly rough and unsettled especially in the more northern parts of the United Kingdom. Heavy rain has fallen in all the western and northern districts and smaller amounts in other localities. During the early part of the week a large anticyclone lay over the Baltic and South of Scandinavia and on the night of the 11th November a large and rather deep depression appeared off our extreme south-western coasts, occasioning S.W. gales in the west and southwest generally. The depression subsequently moved away over the Atlantic, but on the morning of the 13th a secondary disturbance appeared over England and in the course of the ensuing 24 hours, when this system travelled northwards strong S.W. gales were experienced on our W and NE coasts with a very high sea off the north and east of Scotland. The formation and progress of the secondary depression were attended by very large amounts of rain in the west and north.

On the 14th and 15th the large anticyclone over the Baltic moved gradually south-westwards over Germany and France and the wind over our Islands shifted to the southward or south-westward. Two depressions now shifted our north-western and northern coasts.

The first, a large but not particularly deep disturbance, travelled along on the 15th and occasioned S.W. gales from the southward or south-westward on many parts of our western and northern coasts.

The second, which was exceedingly large and deep, the readings in its centre being as low as 28.7 inches passed along on the 16th and occasioned gales in nearly all parts of the Kingdom. The southerly gales experienced in Ireland on the night of the 15th and the westerly gale which blew in Scotland on the following day were very severe.

At the close of the week the latter disturbance was passing away over Northern Europe and the wind over our Islands was moderating from the westward while the weather was improving slowly.

Temperature has been rather high for the time of year and on the 16th the maximum readings at some of the English Stations were slightly above 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, 20th November 1888.*
Issued by the Meteorological Office, 116, Victoria Street, London. R. H. SCOTT, Secretary.

STATIONS.	+ YESTERDAY EVENING.					8 A.M. TO DAY.										PAST 24 HOURS.		
	Barometer at 32° F. and Sea Level.	Temp. in Shade.	WIND.		Weather.	BAROMETER.		SHADE TEMP.			WIND.		Weather.	Sea. (0 to 2.)		SHADE TEMP.		Amount of Rainfall.
			Dir.	Force. (0 to 12.)		Reading at 32° F. and Sea Level.	Difference from 8 a.m. yesterday.	Dry.	Wet.	Difference from 8 a.m. yesterday.	Dir.	Force. (0 to 12.)				Max.	Min.	
SCANDINAVIA.	Haparanda ..	28.98	19	SE	4	28.65	- .44	22	21	+ 2	ESE	6	0	*		34	12	0.04
	Hernösand ...	28.60	34	S	2	28.44	- .72	31	30	+ 8	NW	4	0	*		34	21	0.20
	Stockholm ...	28.89	46	WSW	6	28.72	- .59	39	34	+ 6	W	6	0	*		50	30	-
	Wisby ...	28.08	3	S	6	28.91	- .51	41	38	0	W	6	0	*		46	36	-
	Bodö ...	28.54	31	ESE	8	28.52	- .43	31	27	+ 2	ESE	6	0	*		3	28	-
	Christiansund...	28.48	37	WSW	8	28.40	- .45	38	35	0	WSW	5	1	7		43	35	0.55
	Skudesnaes ...	28.97	44	W	8	28.95	- .25	37	36	- 10	W	7	0	7		48	37	0.32
	Christiania Fjord (Fjorder)	28.80	46	SW	8	28.85	- .89	40	37	- 14	WSW	8	0	5		46	39	-
	Skagen (The Scaw)	28.99	44	NW	7	28.99	- .37	38	37	- 14	NW	8	0	4		48	36	0.12
	Fanö ...	29.28	47	WSW	6	29.30	- .25	42	40	- 3	WSW	6	0	*		48	41	0.16
BRITISH ISLANDS.	Sumburgh Head	28.83	43	WNW	8	28.83	- .18	36	35	- 11	WNW	6	0	7		47	34	0.24
	Stornoway ...	29.19	89	W	7	29.08	- .16	37	37	- 13	NW	6	0	6		50	36	0.20
	Wick ...	29.12	39	NW	6	29.02	- .21	35	33	- 15	NW	5	0	3		50	33	0.15
	Nairn ...	29.16	40	SW	4	29.17	- .12	35	34	- 16	WSW	4	0	3		53	34	0.24
	Aberdeen...	29.26	43	W	5	29.24	- .10	35	34	- 15	WSW	3	0	3		58	35	0.08
	Leith ...	29.34	47	W	6	29.36	- .14	35	36	- 13	W	6	0	6		54	33	0.17
	Shields ...	29.34	56	SW	7	29.49	- .12	38	37	- 14	SW	3	0	2		57	35	0.03
	Spurn Head ...	29.56	53	SW	6	29.61	- .14	43	41	- 7	WSW	5	0	4		58	42	0.04
	York ...	29.55	55	W	7	29.61	- .13	40	38	- 11	W	5	0	6		55	40	0.02
	Loughborough	29.74	54	WSW	3	29.71	- .17	41	39	- 9	W	3	0	6		57	41	0.18
GERMANY.	Ardrossan ...	29.42	47	WNW	5	29.40	- .22	40	40	- 12	W	7	0	6		52	38	0.20
	Malin Head ...	29.48	45	WNW	6	29.40	- .18	38	38	- 13	NW	6	0	6		51	37	0.20
	Mullaghmore ...	29.06	49	W	6	29.06	- .09	42	39	- 11	W	10	0	*		53	38	0.26
	Belmullet ...	29.67	48	W	8	29.69	- .09	42	39	- 11	W	10	0	*		53	38	0.26
	Donaghadee ...	29.33	50	WNW	7	29.56	- .18	37	36	- 15	SW	7	0	5		53	37	0.05
	Barrow-in-Furness	29.57	52	W	6	29.58	- .18	44	40	- 6	SW	6	0	*		53	44	0.14
	Liverpool (Bidston)	29.64	55	WSW	5	29.66	- .16	43	39	- 8	W	6	0	5		57	43	0.20
	Holyhead ...	29.68	55	SW	5	29.71	- .15	43	40	- 9	W	7	0	6		55	43	0.14
	Parsonstown ...	29.71	53	WSW	3	29.78	- .12	39	37	- 13	W	2	0	*		55	38	0.10
	Valencia ...	29.45	54	WSW	6	30.01	- .01	48	43	- 6	WNW	7	0	6		56	42	0.18
FRANCE & NETHERLANDS.	Roche's Point...	29.84	52	W	6	29.94	- .02	43	42	- 9	WNW	6	0	4		57	42	0.20
	Pembroke ...	29.83	53	WSW	6	29.87	- .11	46	43	- 6	W	7	0	6		54	42	0.16
	Schilly ...	30.03	54	W	6	30.03	- .06	50	45	- 3	WNW	8	0	6		55	48	0.05
	Prawle Point ...	29.99	52	W	6	29.94	- .13	45	44	- 6	W	5	0	6		53	44	0.09
	Jersey ...	30.05	54	W	5	29.95	- .19	52	51	- 2	WNW	7	0	5		55	52	0.14
	Hurst Castle ...	29.93	53	W	6	29.86	- .16	46	46	- 6	NW	5	0	4		54	45	0.05
	Dungeness ...	29.86	54	W	5	29.74	- .23	48	47	- 14	NW	4	0	5		55	48	0.05
	London ...	29.85	53	WSW	4	29.77	- .18	43	41	- 9	NW	3	0	*		55	43	0.10
	Oxford ...	29.80	53	SW	5	29.80	- .14	42	41	- 8	W	3	0	*		54	42	0.15
	Cambridge ...	29.76	51	SW	3	29.73	- .16	42	41	- 8	W	1	0	*		56	41	0.40
PENINSULA.	Yarmouth ...	29.72	52	WSW	4	29.66	- .19	43	42	- 6	WNW	4	0	4		52	42	0.24
	Cuxhaven ...	29.63	43	W	6	29.47	- .24	44	43	- 3	NW	6	0	*		49	42	0.58
	Berlin ...	29.72	15	W	5	29.51	- .25	52	49	+ 5	WSW	6	0	*		52	48	0.12
	Wiesbaden ...	*	*	*	*	29.83	- .23	52	49	+ 3	SW	4	0	*		52	50	0.04
	Munich ...	30.14	45	W	5	30.02	- .18	48	43	+ 5	W	5	0	*		48	43	-
	The Helder ...	29.67	49	SW	5	29.60	- .19	45	43	- 4	NW	4	0	3		50	45	0.12
	Brussels ...	*	*	*	*	29.73	- .30	51	50	+ 1	WSW	8	0	*		54	48	0.12
	Cape Gris Nez...	29.90	51	W	8	29.75	- .15	49	49	- 1	WNW	9	0	7		55	48	0.16
	Paris ...	30.11	53	SW	3	29.97	- .19	52	51	+ 3	SW	4	0	*		55	49	-
	Brest ...	30.17	53	WSW	5	30.08	- .15	55	54	+ 3	W	8	0	5		57	51	0.12
PENINSULA.	Lorient ...	30.19	54	W	5	30.07	- .17	54	52	0	W	8	0	5		55	52	0.08
	Rochefort ...	30.29	56	WSW	5	30.19	- .14	56	55	+ 1	W	5	0	2		61	50	0.20
	Belfort ...	30.21	44	W	1	30.09	- .17	50	49	+ 4	W	3	0	*		51	45	-
	Lyons ...	30.31	47	W	1	30.24	- .12	44	43	+ 2	N	1	0	*		?	?	-
	Nice ...	*	*	*	*	*	*	*	*	*	*	*	*	*		*	*	-
	Perpignan ...	30.29	52	NW	1	30.27	- .05	40	39	- 9	NW	1	0	*		61	40	-
	Biarritz ...	30.32	55	W	0	30.26	- .10	50	49	- 3	SSW	4	0	3		59	46	-
	Corunna ...	*	*	*	*	*	*	*	*	*	*	*	*	*		*	*	-
	Lisbon ...	30.29	57	N	5	30.31	- .00	50	48	+ 1	NNE	4	0	4		63	?	-
																		-

For Explanation of Columns, see p. 4.

† Received too late for insertion in *Observer* on 21. 8.

WEATHER CHARTS

for 8 a.m. on

Tuesday, 20th November

1888.

BAROMETER, WIND & SEA.

(Explanation of Map)

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

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

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

Sea Disturbance — where considerable is shown thus.

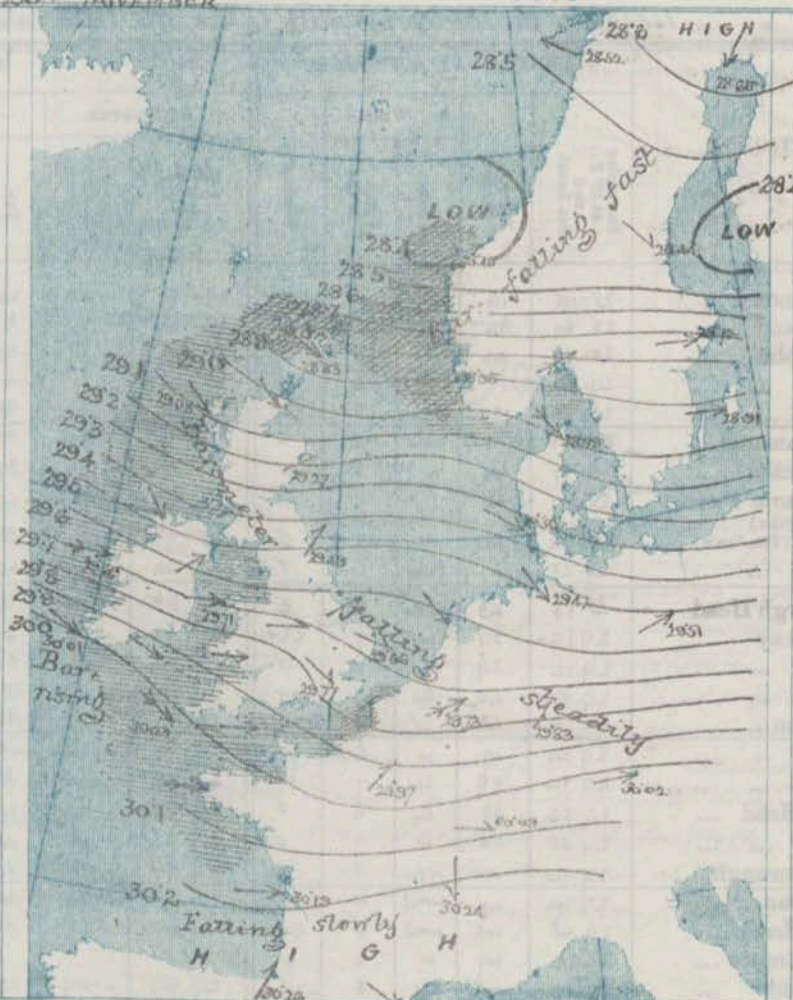
— Rough — High

MEAN HEIGHT of the BAROMETER

at 8 a.m. for the month of 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	29.816
York	29.844
Loughborough	29.876
Ardrossan	29.795
Donaghadee	29.811
Holyhead	29.835
Liverpool	29.852
Parsonstown	29.849
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.	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	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	4.56
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	4.24
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	42.0	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 10 years 1866-85.



GENERAL SITUATION AT 8 A.M.

PRESSURE

Highest, 30.2 ins. to 30.3 ins. over the southern part of France and the north of Spain.
 Lowest, 28.6 ins. and more over the east of Lapland.
 Gradients steep over the North Sea and the north and west of our Islands.
 Barometer very unsteady, rising at present in the west and south, falling in the north.

TEMPERATURE

Highest, 56° at Rochefort, 55° at Brest, 52° at Paris and Berlin, 50° at Buenos, Kianitz and Sicily.
 Lowest, 22° at Haparanda, 31° at Rode and Hernösand and 35° in the northeast of Scotland.
 It has fallen decidedly over our Islands since yesterday—most in Scotland, and the fall is spreading.

WIND

Strong from NE. and E. in Lapland—W (SW to NW) elsewhere.
 It is fresh on our east coast and over Germany—but.
 Strong to a strong gale on our northwestern, western and south-western coast and in Brittany.
 It blows a moderate gale from the W² in the south and southeast during the night.

WEATHER

Very unsettled generally—sleet and hail are falling in the Shetlands, and east of Scotland and the north of Ireland; rain on our southern coasts. At some of the English stations the sky has cleared temporarily. Cold showers and squalls have been general.

SEA

Very rough except along our northeast and east coasts.

PROBABLE CHANGES IN SYSTEM NOW PREVALENT

The barometer is inclined to rise a little in the west and south, but secondary disturbances continue to pass across our Islands from the NW², so that no permanent improvement in the weather is likely at present.

FORECASTS

for the 24 hours ending at NOON on 21st NOVEMBER 1888.

DISTRICTS.

FORECASTS.

1 0	SCOTLAND NORTH	NW ² to N ² gales and strong winds; sleet and hail showers, becoming colder.
1 1	SCOTLAND EAST	
1 2	ENGLAND N.E.	W ² to NW ² winds, strong; squally, cold showers. Very unsettled.
1 3	ENGLAND EAST	
1 4	MIDLAND COUNTIES	
1 5	ENGLAND SOUTH	NW ² winds, moderate and fair, then a gale, squally, showery, cold.

DISTRICTS.

FORECASTS.

1 6	SCOTLAND WEST	W ² and NW ² gales, squally, cold showery.
1 7	ENGLAND N.W.	
1 8	ENGLAND S.W.	
1 9	IRELAND NORTH	
1 10	IRELAND SOUTH	

WARNINGS

The NORTH CONE is still flying in districts 6 to 10, 7, 8 and part of 9, and the S. CONE elsewhere.

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

YESTERDAY'S 2 P.M. REPORTS.

	Bar.	Dry.	Wet.	Wind.	Wen.	Sea.		Bar.	Dry.	Wet.	Wind.	Wen.	Sea.
Skudesnaes ...	29.03	48	46	WSW 8	r	6	Holyhead ...	29.76	54	52	SW 4	e	4
Sumburgh Head ...	29.20	48	40	W 7	p	6	Valencia ...	29.95	50	54	WSW 5	o pm	4
Stornoway ...	28.92	43	43	W 7	r	6	Scilly ...	30.07	54	53	W 6	opa	5
Aberdeen ...	29.22	47	45	W 5	o g g r	4	Jersey ...	30.11	55	53	WSW 5	e	4
Shields ...	29.46	55	52	SW 5	c	2	Dungeness ...	29.91	53	54	W 5	e	4
Ardrossan ...	29.41	52	52	SW 7	r	6	London ...	29.90	55	52	W 4	o g	3
Malin Head ...	?	50	50	W 6	c	6	Yarmouth ...	29.78	52	50	WSW 4	e	3
Mullaghmore ...	29.62	53	52	WSW 6	r m	4	Rochefort ...	30.31	57	57	W 5	r	2
Belmullet ...	29.65	53	53	WSW 8	o r u	*							

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

The report for yesterday morning showed that pressure was highest 30.3 ins: and upwards over Spain and the south of France and relatively high 30.1 ins: and upwards, over the whole of Southern Europe. The lowest reading, 28.9 ins: and less, were found in a large depression lying to the westward of Norway, but a smaller system, with reading below 29.0 ins: was lying over the White Sea. The winds were chiefly W^s or SW^s, and in the extreme north of our Islands and the south of Norway they were strong to a gale. In the north of Norway, however, E^s breezes were reported and in Spain NE^s breezes, while in Italy the wind was light and variable. The weather was fine in Spain, but cloudy or overcast in nearly all other countries, with rain in the north of our Islands and the west of Norway, and snow over Northern Russia. Temperature had risen a little over the greater part of Western Europe, but fallen in most other regions; readings ranged from 55° and upwards over Algeria and Italy, and some part of Spain and France to a few degrees below the freezing point at several of the Russian and Austrian stations. The highest individual readings were 60° at Oran, 59° at Algiers, 58° at Barcelona, 57° at Langueira, Bordini and Palermo, 56° at Biskra, and 55° at Rochefort, Chassiron, and Laboulaye; the lowest were 20° at Archangel and Haparanda, 23° at Norrland, 24° at Uleaborg, 28° at Kuopio, Nivalaiff, Caesars, and Puda Keth, and 29° at Helsingfors.

In the course of the day the large depression off the west of Norway moved steadily eastwards, while secondary disturbances appeared over the United Kingdom. The strong W^s winds in the extreme north gradually extended to all parts of our Islands, and blew with the force of a gale in many places, with heavy local showers, and thunder and lightning at some of our northwestern stations.

EXPLANATION OF COLUMNS GIVEN ON PAGE 1.

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

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

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

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

DAILY WEATHER REPORT.

for Wednesday 21st Nov^r 1888.
 Issued by the Meteorological Office, 116, Victoria Street, London. R.H. SCOTT, Secretary.

		† YESTERDAY EVENING.					8 A.M. TO DAY.										PAST 24 HOURS.		
STATIONS.		Barometer at 32° F. and Sea Level.	Temp. in Shade.	WIND.		Weather.	BAROMETER.		SHADE TEMP.			WIND.		Weather.	Sea. 0 to 9.)	SHADE TEMP.		Amount of Rainfall.	
				Dir.	Force. (0 to 12.)		Reading at 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 ..	28.71	19	N	6	o	28.82	+ .17	15	14	- 7	N	2	o	*	25	?	-	
	Hernösand ...	28.69	26	Z	o	o	28.84	+ .40	26	25	- 5	Z	o	o	*	36	21	-	
	Stockholm ...	28.83	36	WSW	4	b	28.91	+ .19	36	34	- 3	WSW	2	o	*	46	32	-	
	Wisby ...	28.99	37	WNW	8	b	29.01	+ .10	38	37	- 3	W	6	bc	*	45	32	-	
	Bodö ...	28.99	25	ENE	7	b	29.68	+ .16	24	21	- 7	ENE	4	bc	2	30	19	-	
	Christiansund...	28.59	38	W	8	bc	28.83	+ .43	38	36	- 0	W	8	r	7	39	32	0.67	
	Skudesnaes ...	28.78	39	WSW	9	o	29.01	+ .06	40	36	+ 3	WNW	7	o	6	40	36	-	
	Christiania Fjord (Farde)	28.86	40	WSW	8	c	28.96	+ .11	37	33	- 3	WNW	4	b	4	41	36	-	
	Skagen (The Scaw)	28.95	38	WNW	5	o	28.99	+ .00	40	37	+ 2	NW	6	bc	3	43	36	0.16	
	Fanö ...	29.20	40	WSW	3	c	29.32	+ .02	40	38	- 2	WNW	6	c	*	45	37	0.16	
BRITISH ISLANDS.	Sumburgh Head	28.93	37	NNW	4	op	29.31	+ .48	36	36	- 0	NNW	6	chp	6	42	34	0.22	
	Stornoway ...	29.28	42	NW	6	chp	29.62	+ .54	39	39	+ 2	NW	7	r	6	42	36	0.42	
	Wick ...	29.17	37	NW	5	o	29.54	+ .52	37	35	+ 2	NW	6	cu	4	38	33	0.25	
	Nairn ...	29.31	40	WNW	5	o	29.63	+ .46	38	38	+ 3	WNW	5	rsp	3	42	35	0.25	
	Aberdeen...	29.27	38	W	5	op	29.64	+ .37	37	35	+ 2	WSW	4	c	3	39	34	0.38	
	Leith ...	29.42	38	W	6	c	29.74	+ .38	40	39	+ 2	WNW	3	orm	*	41	33	0.34	
	Shields ...	29.43	38	W	6	c	29.78	+ .29	40	38	+ 2	WSW	4	c	2	43	38	0.09	
	Spurn Head ...	29.57	42	WNW	9	r	29.88	+ .27	42	40	- 1	WSW	6	c	5	45	36	0.04	
	York ...	29.59	37	WNW	5	c	29.90	+ .29	42	39	+ 2	W	4	c	*	45	35	0.10	
	Loughborough	29.78	38	WNW	5	b	30.02	+ .31	41	39	- 0	W	4	c	*	46	35	0.10	
GERMANY.	Ardrossan ...	29.50	44	W	8	c	29.78	+ .38	44	43	+ 4	W	6	o	5	46	38	0.33	
	Malin Head ...	29.59	39	NW	7	b	29.94	+ .54	46	45	+ 8	NW	6	o	6	46	35	0.15	
	Mullaghmore ...	29.94	43	NW	9	bc	30.12	+ .43	49	47	+ 7	WNW	7	o	*	49	36	0.32	
	Donaghadee ...	29.70	40	W	5	b	29.93	+ .37	42	42	+ 5	WNW	5	c	8	42	35	0.21	
	Barrow-in-Furness	29.66	42	W	9	r	29.91	+ .33	46	43	+ 2	SW	7	op	*	46	38	0.18	
	Liverpool (Bidston)	29.71	42	W	9	c	29.99	+ .33	45	42	+ 2	W	6	o	5	46	38	0.09	
	Holyhead ...	29.85	40	WNW	8	b	30.05	+ .34	47	44	+ 4	W	8	op	6	49	40	0.01	
	Parsonstown ...	29.99	41	WSW	4	bc	30.15	+ .37	45	43	+ 6	SW	2	o	*	46	36	0.04	
	Valencia ...	30.20	48	NW	6	bc	30.31	+ .30	50	47	+ 2	W	5	op	5	51	44	0.05	
	Roche's Point...	30.10	47	WNW	5	b	30.26	+ .32	45	42	+ 2	W	3	c	4	49	43	-	
FRANCE & NETHERLANDS.	Pembroke ...	30.02	45	WNW	7	c	30.26	+ .33	50	46	+ 4	W	6	bc	6	50	35	0.05	
	Seilly ...	30.18	51	WNW	8	c	30.33	+ .30	52	47	+ 2	WNW	7	c	6	52	47	-	
	Prawle Point ...	30.12	47	WNW	6	c	30.29	+ .35	47	44	+ 2	WNW	4	bc	4	49	42	0.06	
	Jersey ...	30.17	51	NW	6	bc	30.34	+ .39	49	46	- 3	NW	5	c	5	54	46	0.09	
	Hurst Castle ...	30.14	43	W	8	b	30.23	+ .37	46	44	- 0	W	6	bc	5	53	42	0.02	
	Dungeness ...	29.88	45	WNW	7	b	30.11	+ .37	43	40	- 5	WNW	5	bc	5	51	40	0.07	
	London ...	29.90	42	W	5	bc	30.11	+ .34	42	39	- 1	NW	2	c	*	49	40	-	
	Oxford ...	29.95	41	W	5	b	30.14	+ .34	39	38	- 3	W	4	bc	*	47	38	-	
	Cambridge ...	29.81	40	W	5	b	30.07	+ .34	41	38	- 1	W	1	c	*	49	37	0.02	
	Yarmouth ...	29.64	40	WNW	6	bc	29.93	+ .27	41	39	- 2	WNW	6	bc	4	46	36	0.03	
PENIN-SULA.	Cuxhaven ...	29.39	43	W	6	r	29.51	+ .04	41	40	- 3	WNW	8	r	*	44	41	0.06	
	Berlin ...	29.56	39	WNW	3	c	29.63	+ .12	37	36	- 15	W	6	c	*	52	36	0.67	
	Wiesbaden ...	*	*	*	*	*	30.02	+ .19	41	37	- 11	W	3	b	*	55	41	0.24	
	Munich ...	29.83	50	W	7	c	30.12	+ .10	38	33	- 10	SW	6	c	*	54	36	0.04	
	The Helder ...	29.58	44	W	11	b	29.76	+ .16	45	41	- 0	WNW	8	c	5	46	43	0.12	
	Brussels ...	*	*	*	*	*	30.06	+ .33	41	38	- 10	WSW	3	bc	*	51	41	0.39	
	Cape Gris Nez...	30.10	47	WNW	4	bc	30.28	+ .31	40	38	- 12	SW	3	b	*	56	37	0.08	
	Brest ...	30.20	54	NW	7	c	30.44	+ .36	51	49	- 4	NNW	7	c	?	57	?	-	
	Lorient ...	30.29	51	NW	8	b	30.45	+ .38	51	47	- 3	NW	5	b	4	55	48	-	
	Rocheport ...	30.32	53	NW	8	bc	30.48	+ .29	52	50	- 3	NW	7	c	2	59	46	0.08	
Belfort ...	29.97	39	W	4	r	30.25	+ .16	39	37	- 11	W	1	o	*	51	34	0.20		
Lyons ...	30.14	51	SW	1	r	30.39	+ .15	39	37	- 5	NW	3	b	*	57	37	-		
Nice ...	30.02	52	ENE	3	b	29.97	- .22	46	43	- 1	ENE	5	b	1	57	41	-		
Perpignan ...	30.20	57	NW	5	b	30.39	+ .12	47	41	+ 7	NW	4	b	*	64	40	0.28		
Biarritz ...	30.30	58	NNW	7	c	30.57	+ .25	43	40	- 7	SE	4	bf	4	59	41	0.08		
Corunna ...	*	*	*	*	*	30.34	+ .03	49	46	- 1	NNE	5	b	2	63	48	-		
Lisbon ...	30.30	58	N	4	b	30.34	+ .03	49	46	- 1	NNE	5	b	2	63	48	-		

WEATHER CHARTS

for 8 a.m. on *WEDNESDAY 27 NOVEMBER* 1888.

BAROMETER, WIND & SEA.

(Explanation of Map)

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

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

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

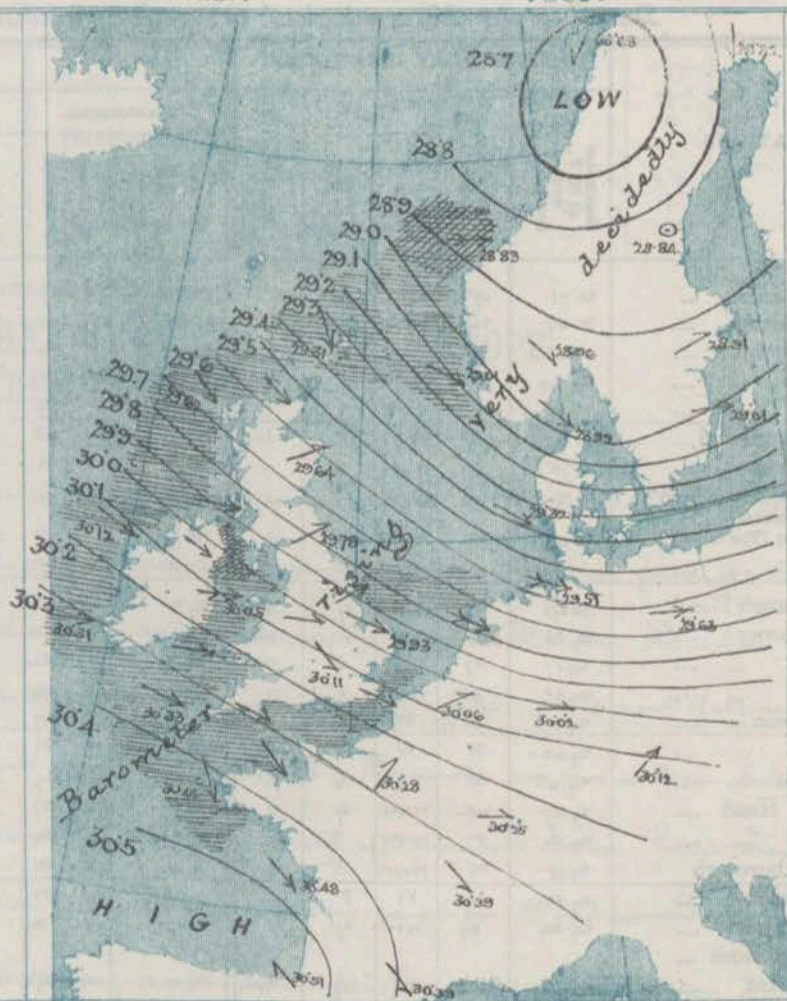
Sea Disturbance — where considerable, is shown thus.

— = Rough — = High.

MEAN HEIGHT of the BAROMETER

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

STATIONS.	MEAN READINGS.
	in.
Sumburgh Head	29.687
Stornoway	29.707
Wick	29.726
Nairn	29.743
Aberdeen	29.756
Leith	29.793
Shields	29.816
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	29.898
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	4.00
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	2.63
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	4.66
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	4.24
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	42.0	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

Barometer rising generally - but unequally - most in North.
Lowest 28.70 ins; and less in a large compass depression lying over Denmark and the North Sea and Germany, rather less over our islands, moderate over the Bay of Biscay.

TEMPERATURE

Highest 53° at Rochefort, 52° at Lally, 51° at Brest and 50° at Valencia
Lowest 15° at Kefaranda, 24° at Bodo, 26° at Hernosund, 37° at Berlin, 39° at Lyons, 40° at Paris and 42° at London.
It is inclined to rise again in Ireland and Scotland, but to fall at the southern stations.

WIND

As NW to W on all the coasts of our islands and North-Western Europe
It is strong to a gale in force at most of our stations and also in Holland and the West of France, but is beginning to subside a little on our own coasts. The gale has been severe in several localities.

WEATHER

Cloudy and smothered generally - with rain in several places -
Hail and hail in the North and North-West, where also thunder and lightning have occurred.

SEA

Highest Christmound and Bonaghada, rough on all but our own east coasts, where it is moderate or light.
It has been very high on the northwest coast of Ireland during the night.

PROBABLE CHANGES IN SYSTEM NOW PREVALENT

As the barometer continues to rise, and the change is greater in the North than elsewhere, it is probable that the gales will subside gradually at all stations, and that the wind will back gradually to the Southward with a temporary improvement in the weather. The conditions, however, are not at all settled.

FORECASTS

for the 24 hours ending at NOON on 22nd November 1888.

DISTRICTS.

FORECASTS.

0	SCOTLAND NORTH	NW ^{ly} winds, moderating and backing, showery to fair, then milder.
1	SCOTLAND EAST	
2	ENGLAND N.E.	W ^{ly} winds, falling light gradually, with some improvement in the weather.
3	ENGLAND EAST	
4	MIDLAND COUNTIES	
5	ENGLAND SOUTH	NW ^{ly} to W ^{ly} winds, falling light, with fiercer weather after some rain to day. Very cold to night.

DISTRICTS.

FORECASTS.

6	SCOTLAND WEST	
7	ENGLAND N.W.	NW ^{ly} and W ^{ly} gales, moderating and wind backing, with temporary improvement in weather.
8	ENGLAND S.W.	
9	IRELAND NORTH	
10	IRELAND SOUTH	Wind backing to SW ^{ly} again, with milder and fairer weather.
WARNINGS		The NORTH CONE is still up in districts 2 and 7, and the SOUTH CONE in 3, 5, 8 and 10. Elsewhere the SIGNALS are down.

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

YESTERDAY'S 2 P.M. REPORTS.

	Bar.	Dry.	Wet.	Wind.	Wes.	Ses.		Bar.	Dry.	Wet.	Wind.	Wes.	Ses.
Skudesnaes ...	28.92	38	36	W 8	rs	7	Holyhead ...	29.74	43	39	WNW 10	cg	8
Samburgh Head ...	28.66	40	39	NNW 6	cp	6	Valencia ...	30.43	48	44	WNW 7	cpq	6
Stornoway ...	29.13	42	42	NN 6	3	6	Scilly ...	30.15	51	46	WNW 7	c	6
Aberdeen ...	29.15	39	34	SW 5	cg	3	Jersey ...	30.10	53	47	WNW 7	bc	5
Shields ...	29.39	39	37	WSW 5	c	2	Dungeness ...	29.83	50	45	WNW 6	bc	6
Ardrossan ...	29.41	41	39	W 7	0	5	London ...	29.81	49	43	WNW 5	bcy	*
Malin Head ...	29.45	40	38	NW 8	0	7	Yarmouth ...	29.63	46	42	W 7	cg	4
Mullaghmore ...							Rochefort ...	30.21	59	55	WNW 7	0	3
Balmullet ...	29.85	43	40	WNW 8	cpq	*							

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

The reports for yesterday morning showed that pressure was highest, 30.2 inches and upwards, in an anticyclone lying over Spain, but high 30.1 inches and upwards over the whole of Southern Europe. The lowest readings, 29.4 inches and less, were reported in two depressions, one of which lay off the Northwest of Norway, while the other was situated over Finland. Sharp gradients for W. winds were therefore reported over nearly the whole of Europe, and gales or strong winds from that quarter or from SouthWest prevailed in most places. In the extreme north and northwest of our Islands, however, and also in Italy, the wind was N.W. while in Spain and Algeria it varied between North and East. The weather was fine in Spain, Italy,

Algeria and the South of France, as well as at many of the English stations, but cloudy or overcast elsewhere with rain in many places; sleet or hail in the north and northwest of our Islands, and snow in some parts of Northern Russia. Temperature had risen somewhat over Sweden, Russia, Germany and some parts of France, but fallen elsewhere, — several degrees in our Islands; readings ranged from 55° and upwards in Spain, Southern Italy and the SouthWest of France to a few degrees below zero at several of the Austrian and Russian stations. The highest individual readings were 63° at Malta and Offa, 58° at Algiers and Biskra, 57° at Chassani, Croisette, Tanguiane, San Fernando, Brindisi and Otan and 56° at Rochefort, — the lowest were 9° at Archangel, 22° at Kapsaranda, 23° at Koomuntsk, 25° at Uleaborg, 26° at Charkov and 31° at Rode, Kermasand and Buda Pesth.

In the course of the day the depressions in the far north moved steadily eastwards, but some secondary disturbances travelled over our Islands from the NorthWestward, occasioning W. to N.W. gales in almost all parts of the Kingdom; over the Irish Sea the gales were very severe. Thunder and lightning occurred at many of our western and northwestern stations.

EXPLANATION OF COLUMNS GIVEN ON PAGE 1.

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

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

† The evening observations are taken at 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, 25th November 1888.
Issued by the Meteorological Office, 116, Victoria Street, London. R. H. SCOTT, Secretary.

STATIONS.		† YESTERDAY EVENING.					8 A.M. TO DAY.										PAST 24 HOURS.		
		Barometer at 32° F. and Sea Level.	Temp. in Shade.	WIND.		Weather.	BAROMETER.		SHADE TEMP.			WIND.		Weather.	Sea. (0 to 9.)	SHADE TEMP.		Amount of Rainfall.	
				Dir.	Force (0 to 12.)		Reading at 32° F. and Sea Level.	Difference from 8 a.m. yesterday.	Dry.	Wet.	Difference from 8 a.m. yesterday.	Dir.	Force (0 to 12.)			Max.	Min.		
SCANDINAVIA.	Haparanda ..	29.12	16	N	2	0	29.24	+ .52	15	14	0	Z	0	0	*	21	10	0.04	
	Hernösand ...	29.12	26	N	4	bc	29.45	+ .61	10	8	- 16	Z	0	0	*	30	9	-	
	Stockholm ...	29.18	31	WSW	2	b	29.54	+ .63	28	27	- 8	W	2	0	*	39	28	-	
	Wisby ...	29.23	38	NW	6	b	29.61	+ .60	36	34	- 2	N	4	0	*	41	36	-	
	Bodö ...	29.05	25	ENE	6	s	29.18	- .50	27	24	+ 3	E	4	0	2	?	19	-	
	Christiansund...	29.28	38	WNW	5	s	29.30	+ .47	38	33	- 5	SE	1	bc	5	?	?	0.43	
	Skudesnaes ...	29.57	39	NW	8	0	29.47	+ .46	43	41	+ 3	SSE	8	?	7	?	37	-	
	Christiania Fjord (Færd)	29.32	39	WNW	5	b	29.57	+ .61	40	36	+ 3	W	4	0	3	43	37	-	
	Skagen (The Scaw)	29.39	37	NW	5	c	29.65	+ .66	38	35	- 2	NW	3	0	2	41	37	-	
	Fanö ...	29.66	38	WNW	5	b	29.82	+ .50	41	39	+ 1	WSW	2	0	*	43	37	0.04	
BRITISH ISLANDS.	Sumburgh Head	29.65	39	WNW	4	bc	29.06	- .25	51	50	+ 15	WSW	7	?	6	51	33	0.33	
	Stornoway ..	29.72	43	SW	4	r	29.27	- .25	49	49	+ 10	W	7	?	6	54	35	0.82	
	Wick ...	29.70	38	NW	4	c	29.25	- .29	52	51	+ 15	WNW	6	0	3	52	35	0.35	
	Nairn ...	29.80	40	WNW	3	bc	29.35	- .28	52	51	+ 12	WSW	4	?	2	52	35	0.49	
	Aberdeen...	29.87	38	SW	2	b	29.44	- .20	52	48	+ 15	SW	3	0	3	53	34	0.18	
	Leith ...	29.91	41	W	3	0	29.62	- .12	52	49	+ 12	W	6	0	*	52	40	0.06	
	Shields ...	29.96	43	W	3	c	29.77	- .01	52	50	+ 12	SW	5	0	2	52	38	0.02	
	Spurn Head ...	29.96	45	W	4	c	29.95	+ .07	48	46	+ 6	SW	4	0	4	48	41	0.08	
	York ...	30.01	44	WNW	3	bc	29.95	+ .05	50	48	+ 8	W	4	0	*	50	40	0.04	
	Loughborough	30.10	46	NW	4	c	30.07	+ .05	49	47	+ 8	W	5	0	4	49	41	-	
GERMANY.	Ardrossan ...	29.45	48	WNW	4	0	29.77	- .01	51	51	+ 7	SW	7	?	5	51	43	0.35	
	Malin Head ...	29.46	49	W	5	om	29.94	- .20	51	50	+ 5	WSW	7	0	7	51	46	0.39	
	Mullaghmore ...	30.06	48	SW	5	om	29.87	- .23	52	50	-	SW	7	0	6	52	45	0.81	
	Belmullet ...	30.07	50	WNW	7	0	29.89	- .23	53	51	+ 4	WSW	10	0	*	53	47	0.08	
	Donaghadee ...	30.06	47	W	5	bc	29.87	- .06	51	50	+ 9	W	6	0	4	51	42	0.21	
	Barrow-in-Furness	30.07	48	WSW	5	0	29.94	+ .03	50	47	+ 4	WSW	6	0	*	50	45	0.16	
	Liverpool (Bidston)	30.10	48	W	6	0	30.00	+ .01	50	47	+ 5	WSW	7	0	5	50	45	0.11	
	Holyhead ...	30.16	49	WNW	6	bc	30.04	- .01	52	49	+ 5	WSW	6	0	5	52	47	0.08	
	Parsonstown ...	30.20	47	SW	1	0	30.09	- .06	50	48	+ 5	SW	3	0	*	50	44	-	
	Valencia ...	30.31	51	WSW	4	bcm	30.19	- .12	54	50	+ 4	WSW	7	0	6	54	48	0.01	
FRANCE & NETHERLANDS.	Roche's Point...	30.32	49	WNW	3	b	30.22	- .04	52	51	+ 7	WSW	4	0	4	52	40	-	
	Pembroke ...	30.27	51	WNW	4	bc	30.20	- .00	52	51	+ 2	WSW	6	0	6	52	49	-	
	Scilly ...	30.36	52	WNW	6	0	30.36	+ .03	52	50	0	WNW	6	0	6	53	47	0.02	
	Prawle Point ...	30.34	49	W	4	bc	30.32	+ .03	49	48	+ 2	WSW	6	0	4	51	45	0.03	
	Jersey ...	30.36	33	WNW	4	bcm	30.40	+ .06	52	49	+ 3	WNW	6	0	5	55	48	0.06	
	Hurst Castle ...	30.26	48	W	5	b	30.28	+ .05	50	49	+ 4	WNW	6	0	5	51	44	0.01	
	Dungeness ...	30.11	48	WNW	5	b	30.20	+ .09	50	48	+ 7	W	5	0	4	50	42	-	
	London ...	30.17	47	W	5	b	30.19	+ .08	48	46	+ 6	WNW	3	0	*	50	42	-	
	Oxford ...	30.21	46	WNW	3	bc	30.17	+ .03	48	47	+ 9	W	6	0	*	49	39	-	
	Cambridge ...	30.11	44	W	2	b	30.11	+ .04	49	47	+ 8	W	3	0	*	50	39	-	
PENINSULA.	Yarmouth ...	30.00	44	NW	5	bc	30.06	+ .13	46	45	+ 5	WSW	4	0	4	46	40	0.03	
	Cuxhaven ...	29.64	40	NW	7	r	29.96	+ .45	40	39	- 1	SW	3	0	*	42	38	0.18	
	Berlin ...	29.76	38	W	5	c	30.03	+ .40	35	34	- 2	WNW	3	0	*	43	34	0.20	
	Wiesbaden ...	*	*	*	*	*	30.26	+ .24	40	39	- 1	SW	3	0	*	45	37	0.16	
	Munich ...	30.15	35	W	5	c	30.28	+ .16	34	32	- 4	W	7	0	*	41	37	0.16	
	The Helder ...	29.93	44	NW	7	c	30.02	+ .26	46	45	+ 1	WSW	3	0	3	46	41	-	
	Brussels ...	*	*	*	*	*	30.23	+ .17	45	43	+ 4	WSW	3	0	*	47	2	0.08	
	Cape Gris Nez...	30.12	49	WNW	9	c	30.19	+ .11	51	48	+ 4	W	2	0	6	52	45	-	
	Paris ...	30.28	47	W	4	bc	30.39	+ .11	44	43	+ 4	SSW	1	0	*	52	?	0.04	
	Brest ...	30.67	51	NW	7	0	30.72	- .2	53	48	+ 2	NW	5	0	5	57	?	-	

For Explanation of Columns, see p. 4.

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

WEATHER CHARTS

for 8 a.m. on

Thursday, 22nd November.

1888.

BAROMETER, WIND & SEA.

(Explanation of Map)

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

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

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

Sea Disturbance — where considerable is shown thus.

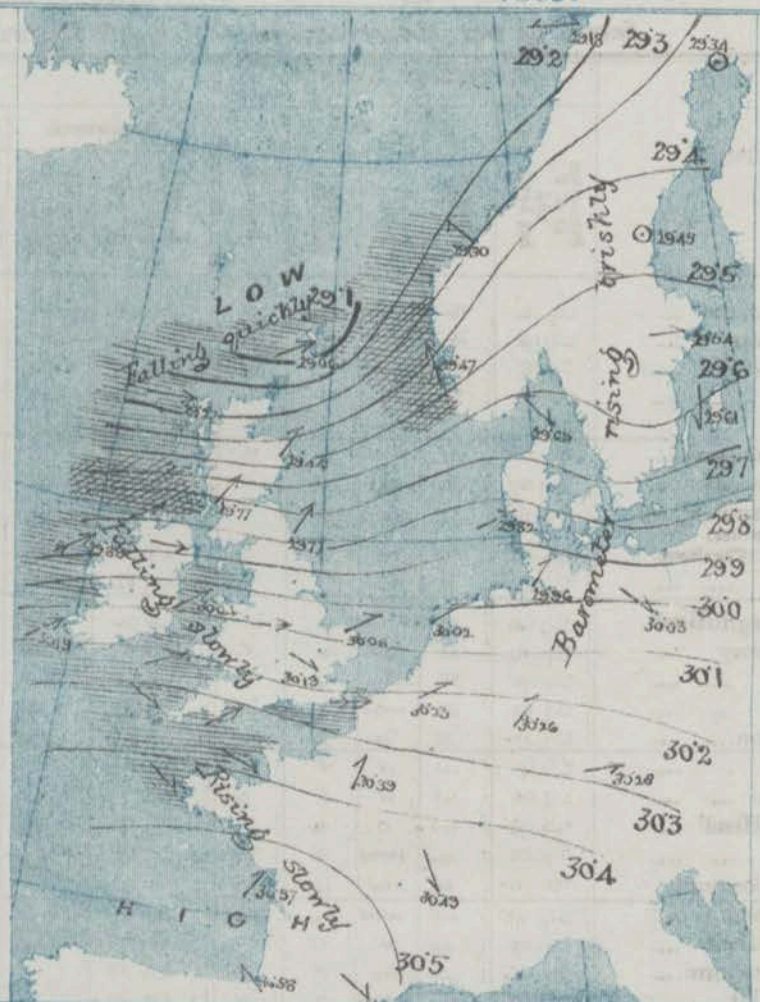
— Rough — High

MEAN HEIGHT of the BAROMETER

at 8 a.m. for the month of 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	29.898
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.

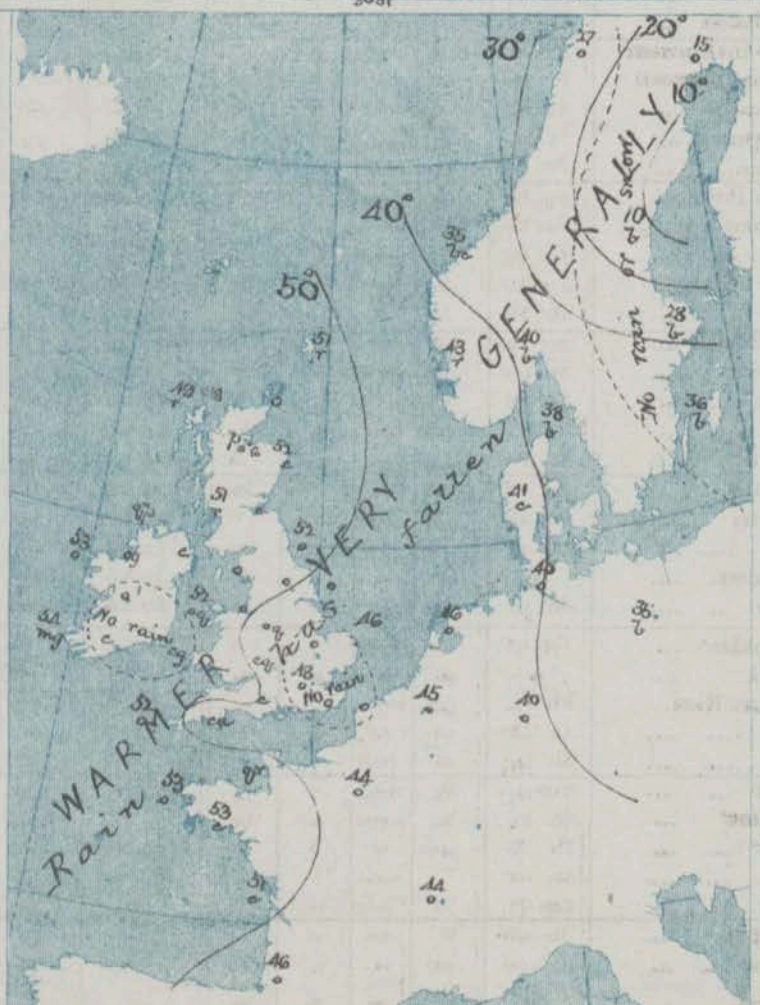
MEANS OF TEMPERATURE IN SHADE.

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	40.3	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	4.56
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	4.24
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	42.0	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, 30.5 in. and upwards, in an anticyclone lying over the Bay of Biscay, the north of Spain, and the southwest of France.
 Lowest, 29.1 in. and less, in a depression lying off the north of Scotland.
 Gradients steep over the northern part of our islands and the North Sea, but moderate or slight elsewhere.
 Barometer rising at most of the Continental stations, but falling in our islands, — quietly in the north.

TEMPERATURE

Highest, 54° at Valencia, 53° at Belmullet, Thet and Orient, and 52° at many of our western and northern stations.
 Lowest, 10° at Helsingfors, 15° at Haparanda, 21° at Rode, 28° at Stockholm, 34° at Munich, and 35° at Christiania and Berlin.
 A considerable rain has taken place over the northern parts of the United Kingdom.

WIND

W^{ly} or SW^{ly} over our islands, moderate or fresh in the east, but strong elsewhere, with a gale at Belmullet.
 SE^{ly} in the west of Norway; calm in the north of Sweden; NW^{ly} at most of the French stations.

WEATHER

Fine in Sweden, Denmark, Germany and the south of France.
 Cloudy elsewhere, with rain on our extreme northern and northwestern coasts.
 Rain fell yesterday in many parts of the United Kingdom and lunar halos were seen in the south of England.

SEA

High at Helsingfors and Malin Head, and rough or rather so on nearly all coasts.

PROBABLE CHANGES IN SYSTEM NOW PREVALENT

The depression in the far north will probably occasion strong gales from W. or NW. on all our northern coasts.
 Unsettled weather is likely to continue generally, but in the south no serious increase of wind is anticipated at present.

FORECASTS

For the 24 hours ending at NOON on 23rd Nov^r 1888.

DISTRICTS.

FORECASTS.

1	SCOTLAND NORTH	W ^{ly} to NW ^{ly} strong winds and gales; squally, some rain.
1	SCOTLAND EAST	
2	ENGLAND N.E.	SW ^{ly} to W ^{ly} winds, increasing to a gale; squally, some rain.
3	ENGLAND EAST	W ^{ly} winds, strong and squally, fair generally, but some showers.
4	MIDLAND COUNTIES	
5	ENGLAND SOUTH	

DISTRICTS.

FORECASTS.

6	SCOTLAND WEST	SW ^{ly} to W ^{ly} or NW ^{ly} strong winds or gales; squally, some rain.
7	ENGLAND N.W.	
8	ENGLAND S.W.	Same as Nos 3 to 5
9	IRELAND NORTH	Same as Nos 6 and 7.
10	IRELAND SOUTH	Same as Nos 3 to 5.

WARNINGS

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

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

YESTERDAY'S 2 P.M. REPORTS.

	Bar.	Dry.	Wet.	Wind.	Wea.	Sea.		Bar.	Dry.	Wet.	Wind.	Wea.	Sea.
Skudomae ...	29.85	39	37	wnw 8	ots	6	Holyhead ...	30.10	50	47	wnw 8	cg	6
Sumburgh Head ...	29.83	39	36	wnw 6	chep	6	Valencia ...	30.33	53	49	w 5	cm	5
Stornoway ...	29.79	43	42	w 4	0	4	Scilly ...	30.36	58	49	wnw 7	0	6
Aberdeen ...	29.77	41	37	w 5	6	3	Jersey ...	30.35	54	48	wnw 5	c	5
Shields ...	29.84	46	43	w 2	c	2	Dungeness ...	30.11	49	48	wnw 5	c	4
Ardrossan ...	29.92	45	44	wnw 4	0	3	London ...	30.10	50	46	wnw 3	0	4
Malin Head ...	29.99	49	46	wnw 5	0	5	Yarmouth ...	29.93	45	43	w 6	c	4
Mullaghmore ...	30.11	43	46	wnw 5	cph	6	Rochefort ...	30.51	56	51	wnw 5	c	2
Belmullet ...	30.15	50	47	w 6	op	*							

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

The Continental Information will appear in tomorrow's report.

EXPLANATION OF COLUMNS GIVEN ON PAGE 1.

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

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

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

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

DAILY WEATHER REPORT.

for Friday, 23rd November 1888.
 Issued by the Meteorological Office, 116, Victoria Street, London. R. H. SCOTT, Secretary.

STATIONS.		† YESTERDAY EVENING.					3 A.M. TO DAY.										PAST 24 HOURS.		
		Barometer at 32° F. and Sea Level.	Temp. in Shade.	WIND.		Weather.	BAROMETER.		SHADE TEMP.			WIND.		Weather.	Sea. (0 to 5.)	SHADE TEMP.			
				Dir.	Force. (0 to 12.)		Reading at 32° F. and Sea Level.	Difference from 8 a.m. yesterday.	Dry.	Wet.	Difference from 8 a.m. yesterday.	Dir.	Force. (0 to 12.)			Max.	Min.	Amount of Rainfall.	
SCANDINAVIA.	Haparanda ..	29.26	18	S	2	0	28.89	- .45	21	21	+ 6	E	4	S	*	21	12	0.08	
	Hernösand ...	28.97	33	S	8	S	28.95	- .50	28	27	+ 18	W	0	b	*	34	?	0.20	
	Stockholm ...	29.17	33	SSE	9	S	29.15	- .39	38	36	+ 10	WSW	4	b	*	?	27	0.12	
	Wisby ...	29.39	38	S	6	T	29.30	- .31	42	40	+ 6	W	6	b	*	52	36	0.24	
	Bodö ...	28.79	30	ENE	4	0	28.67	- .51	27	25	0	ENE	4	0	2	30	25	-	
	Christiansund...	28.84	41	W	8	C	28.92	- .38	37	35	+ 2	WSW	8	S	5	41	?	0.04	
	Skudesnaes ...	29.30	45	S	6	C	29.38	- .09	43	41	0	W	7	0	5	?	89	0.67	
	Christiania Fjord (Fjorder)	29.11	45	SW	4	b	29.25	- .32	42	39	+ 2	WSW	8	b	5	45	?	-	
	Skagen (The Scaw)	29.27	46	NW	7	0	29.43	- .22	43	42	+ 5	WNW	5	b	2	46	37	0.12	
	Fanö ...	29.43	47	WSW	6	0	29.69	- .13	46	43	+ 5	WSW	6	C	*	48	41	0.04	
BRITISH ISLANDS.	Sumburgh Head	29.22	44	W	6	0	29.21	+ .15	41	37	- 10	W	7	C	7	51	39	0.22	
	Stornoway ...	29.38	46	W	6	0	29.47	+ .20	43	42	- 6	W	7	0	6	51	38	0.22	
	Wick ...	29.43	42	SW	3	0	29.48	+ .23	39	37	- 13	W	3	b	2	52	37	0.10	
	Nairn ...	29.45	47	WSW	2	0	29.55	+ .20	42	41	- 10	WSW	3	0	2	52	40	0.22	
	Aberdeen...	29.50	49	SW	5	b	29.65	+ .21	42	39	- 10	SW	4	b	4	58	41	0.01	
	Leith ...	29.62	49	W	5	T	29.76	+ .14	46	43	- 6	W	4	b	*	54	45	0.13	
	Shields ...	29.61	56	W	8	b	29.83	+ .16	50	45	- 2	SW	6	b	2	56	48	-	
	Spurn Head ...	29.89	51	WSW	6	0	29.97	+ .02	52	50	+ 4	WSW	5	0	4	53	41	-	
	York ...	29.89	53	W	6	0	29.98	+ .03	51	48	+ 1	WSW	2	b	*	56	49	0.01	
	Loughborough	30.06	52	WSW	3	0	30.06	- .01	53	50	+ 4	WSW	4	b	*	54	49	-	
GERMANY.	Arrossan ...	29.69	52	WSW	4	T	29.83	+ .08	48	46	- 3	W	4	p	3	53	46	0.15	
	Malin Head ...	29.58	49	W	5	o	29.82	+ .08	48	45	- 3	W	5	c	6	52	46	0.28	
	Mullaghmore ...	29.84	51	WSW	7	T	29.98	+ .11	50	47	- 2	WSW	6	o	7	54	49	0.08	
	Belmullet ...	29.87	53	WSW	8	T	30.00	+ .11	51	48	- 2	W	7	0	*	54	50	0.12	
	Donaghadee ...	29.80	53	W	5	0	29.91	+ .04	48	45	- 3	W	4	C	2	53	47	0.08	
	Barrow-in-Furness	29.91	52	SW	6	0	?	?	50	49	0	SW	4	0	*	53	49	0.07	
	Liverpool (Bidston)	29.92	54	WSW	7	0	30.02	+ .02	54	51	+ 4	WSW	6	0	5	56	50	-	
	Holyhead ...	30.02	54	SW	6	o	30.06	+ .02	52	52	0	WSW	5	r	5	54	51	0.08	
	Parsonstown ...	30.02	52	SW	4	0	30.09	- .00	50	49	0	W	0	T	?	55	49	0.24	
	Valencia ...	30.16	54	WSW	7	o	30.20	+ .01	54	53	0	WSW	5	o	5	55	52	0.04	
FRANCE & NETHERLANDS.	Roche's Point...	30.17	54	WNW	5	b	30.20	- .02	54	52	+ 2	WSW	5	e	4	55	50	-	
	Pembroke ...	30.20	52	WSW	6	C	30.23	+ .03	55	52	+ 1	WSW	5	c	5	54	51	0.01	
	Scilly ...	30.35	53	W	7	o	30.38	+ .02	55	52	+ 3	WSW	5	0	6	55	50	-	
	Prawle Point ...	30.33	51	WSW	6	b	30.38	+ .06	53	51	+ 4	WSW	6	C	4	54	48	0.05	
	Jersey ...	30.43	52	WNW	5	o	30.45	+ .05	53	51	+ 1	WSW	5	o	4	56	50	0.04	
	Hurst Castle ...	30.28	51	W	7	C	30.32	+ .04	53	52	+ 3	WSW	7	e	5	53	50	-	
	Dungeness ...	30.17	52	W	6	0	30.25	+ .05	53	52	+ 3	W	6	C	5	53	50	-	
	London ...	30.18	51	W	4	b	30.21	+ .02	52	50	+ 4	WSW	5	b	*	54	49	-	
	Oxford ...	30.18	51	W	4	0	30.21	+ .04	53	51	+ 5	W	6	o	*	53	48	-	
	Cambridge ...	30.09	50	W	3	C	30.14	+ .03	53	51	+ 4	SW	3	C	*	54	48	-	
PENINSULA.	Yarmouth ...	30.04	49	WSW	4	C	30.07	+ .01	52	50	+ 6	WSW	4	b	3	52	45	-	
	Cuxhaven ...	29.83	44	W	7	T	29.86	- .10	50	49	+ 10	W	7	T	*	50	?	0.27	
	Berlin ...	29.99	41	WSW	5	T	29.97	- .06	48	47	+ 13	W	5	T	*	43	41	0.20	
	Wiesbaden ...	?	*	*	*	*	30.33	+ .07	48	46	+ 8	SW	3	0	*	50	?	0.04	
	Atrkirch ...	?	48	SW	3	T	30.54	?	48	46	-	W	3	0	*	48	46	0.39	
	The Helder ...	29.98	48	WSW	5	C	30.02	- .00	49	48	+ 3	WSW	5	C	4	50	46	0.04	
	Brussels ...	*	*	*	*	*	30.18	+ .05	50	49	+ 5	WSW	4	T	*	51	?	0.04	
	Cape Gris Nez...	?	?	?	?	?	?	?	?	?	?	?	?	?	?	?	?	-	
	Paris ...	30.45	50	SW	3	C	30.49	+ .10	48	46	+ 4	SW	4	0	*	52	?	-	
	Brest ...	30.45	53	WNW	5	0	30.52	?	52	49	- 1	SW	7	0	5	57	?	-	
PENINSULA.	Lorient ...	30.50	54	WNW	7	0	30.52	+ .05	51	49	- 2	W	4	0	4	58	50	0.04	
	Rochefort ...	30.59	54	WNW	4	C	30.61	+ .04	51	51	0	SSE	4	0	2	61	46	0.04	
	Belfort ...	30.48	39	W	1	0	30.51	+ .13	44	43	+ 2	W	1	0	*	46	37	0.08	
	Lyons ...	30.52	46	NE	1	0	30.59	+ .10	45	43	+ 1	W	1	0	*	48	44	-	
	Nice ...	30.25	50	NE	5	b	30.49	+ .11	46	39	+ 2	E	3	b	1	61	41	0.04	
	Perpignan ...	30.52	52	NW	4	b	30.51	- .00	47	44	- 2	NW	3	b	*	58	46	-	
	Biarritz ...	30.58	53	W	0	b	30.55	- .00	42	40	- 4	SSE	4	b	5	57	41	-	
	Corunna ...	*	*	*	*	*	?	?	?	?	?	?	?	?	?	?	?	-	
	Lisbon ...	30.51	54	NE	5	b	30.56	+ .07	48	43	+ 1	NNE	5	b	2	59	46	-	

For Explanation of Columns, see p. 1.

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

WEATHER CHARTS

for 8 a.m. on Friday, 23rd NOVEMBER 1888.

BAROMETER, WIND & SEA.

(Explanation of Map)

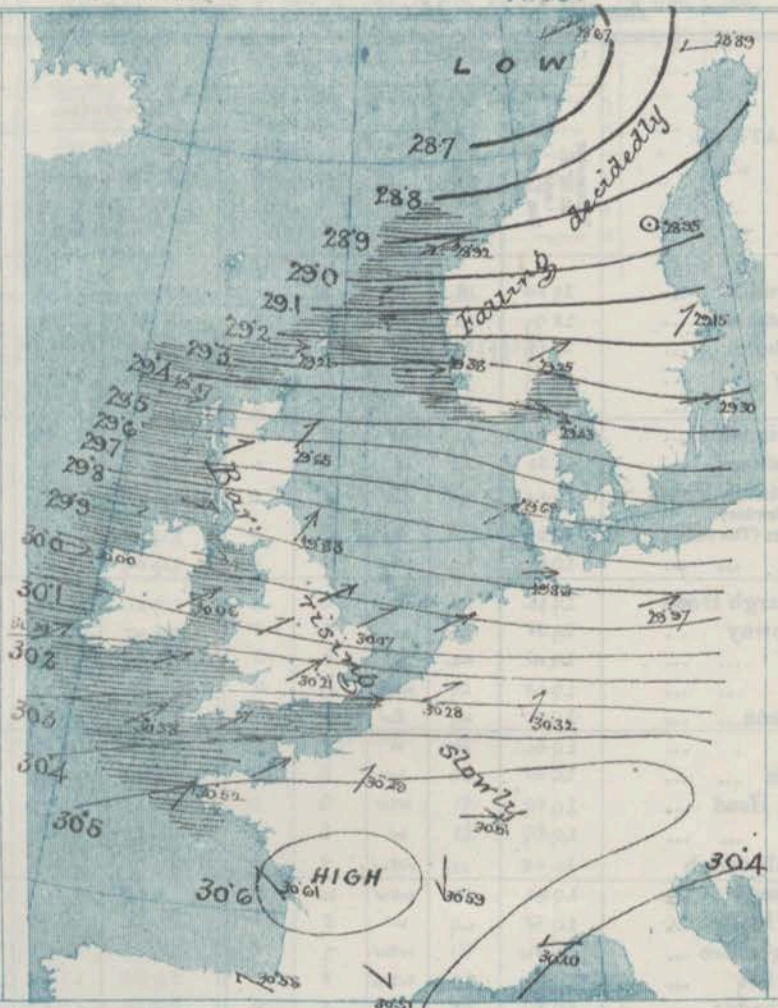
Barometer — Isobars are drawn for each tenth of an inch. Changes since previous morning are stated in words.
Wind — Arrows show the prevalent winds. They fly with the wind and their barbs and feathers refer to force, thus —
 — forces above 10; — forces 8 to 10;
 — forces 5 to 7; — forces 1 to 4;
 ○ =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

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

MEAN HEIGHT of the BAROMETER

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

STATIONS.	MEAN READINGS.
	in.
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	29.876
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	29.893
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.

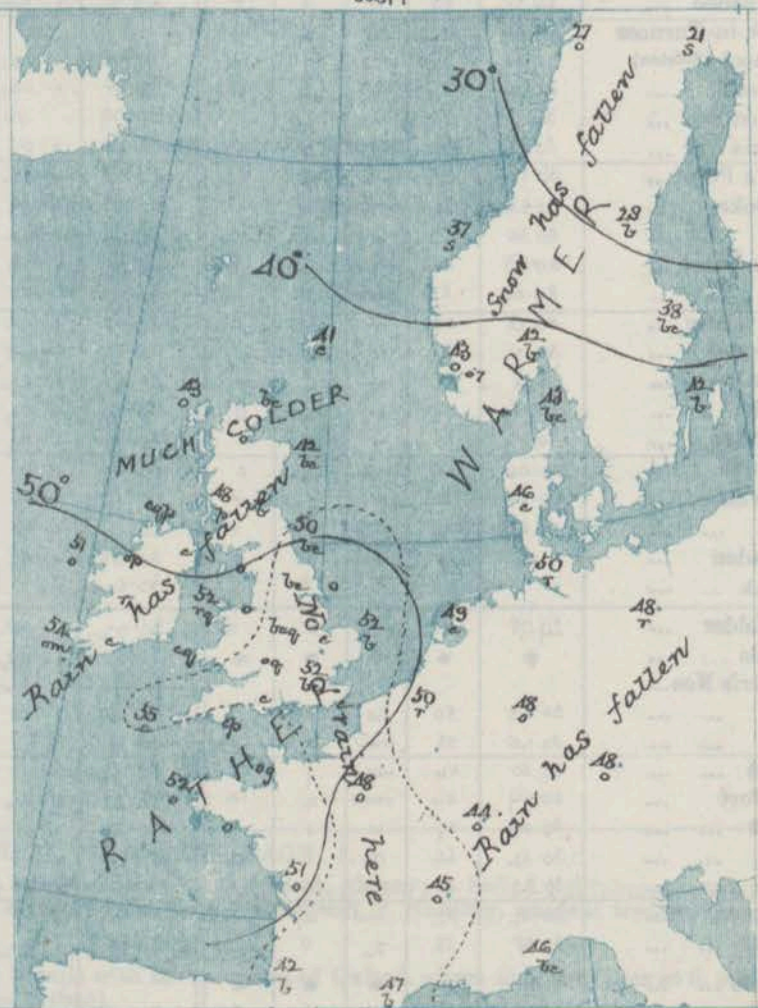
Temperature — Isotherms are drawn for each 10° Changes since previous morning are stated in words.
Weather — is shown by Letters of the Beaufort Scale.
Rainfall — A dotted line separates the districts in which rain has fallen from those where there has been none. Falls of 0.5 in. or more, are quoted 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	4.00
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	4.56
Pembroke	50.2	43.7	46.7	44.7	3.96
Scilly	52.5	46.7	50.0	48.0	3.78
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	37.9	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	42.0	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, 30.4 ins. to 30.6 ins. in a large high pressure area lying over France and the Bay of Biscay.
Lowest, 28.7 ins. and less, in a large depression, the centre of which lies over the west of England.
Gradients steep for W. winds over the whole of our Islands and the North Sea.
Barometer falling fast in Ireland, rising in our Islands - very slowly in the south.

TEMPERATURE

Highest, 55° at Scilly, 54° at Valencia, 53° at Dunkirk, 52° in London and at Spurnhead.
Lowest, 21° at Haparanda, 27° at Bodö, 28° at Helsingfors, 30° at Narvik, and 41° at Aberdeen.
It has fallen very decidedly in Scotland since yesterday, but has risen over the south of England.

WIND

SW^{ly} and W^{ly} over the whole of our Islands, the Channel, and the North Sea.
Strong to gale in force at all exposed stations, moderate to fresh elsewhere.
Over the southern part of France it is from between N. and E. and is of little force.

WEATHER

Cloudy but fair in the east and northeast, dull and showery in the southwest, west and northwest.
Rain fell yesterday except in the east and south, thunder and lightning have occurred in the northeast of Scotland.

SEA

High at Lumburg Head and Mullaghmore, rough on our northern, western, and southern coast generally, moderate to smooth on our northeast and east coasts.

PROBABLE CHANGES IN SYSTEM NOW PREVALENT

The general appearance of the weather is less unfavourable than of late, but strong and squally W^{ly} winds are still probable in most places, with a continuation of showery weather on our western and northern coasts.

FORECASTS

for the 24 hours ending at NOON on 24th Nov^r 1888.

DISTRICTS.

FORECASTS.

f0	SCOTLAND NORTH	W ^{ly} and SW ^{ly} winds, strong, squally, some showers.
f1	SCOTLAND EAST	
2	ENGLAND N.E.	
3	ENGLAND EAST	
4	MIDLAND COUNTIES	
5	ENGLAND SOUTH	W ^{ly} and SW ^{ly} winds, strong, squally, fair.

DISTRICTS.

FORECASTS.

f6	SCOTLAND WEST	W ^{ly} and SW ^{ly} gales or strong winds; squally, some showers.
f7	ENGLAND N.W.	
f8	ENGLAND S.W.	Same as N°5
f9	IRELAND NORTH	Same as N°6 and 7.
f10	IRELAND SOUTH	

WARNINGS

The signals have been lowered this morning in districts 2, 3, and 5, but are still up elsewhere.

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

YESTERDAY'S 2 P.M. REPORTS.

	Bar.	Dry.	Wet.	Wind.	Woa.	Sea.		Bar.	Dry.	Wet.	Wind.	Woa.	Sea.
Skudesnaes ...	29.72	49	41	WSW 8	T	7	Holyhead ...	30.02	53	50	WSW 6	o q	5
Sumburgh Head ...	29.10	45	42	W 7	p q	7	Valencia ...	30.16	55	52	SW 6	o q m	6
Stornoway ...	29.35	49	48	W 7	O	6	Scilly ...	30.35	54	50	WSW 7	O	6
Aberdeen ...	29.43	56	50	SW 6	c q	4	Jersey ...	30.40	53	40	W 5	c	5
Shields ...	29.74	55	51	WSW 9	bc	2	Dungeness ...	30.17	52	49	W 5	O	4
Ardrossan ...	29.67	52	52	WSW 7	T	6	London ...	30.17	54	49	W 5	O q	4
Malin Head ...	29.65	50	50	W 6	C	6	Yarmouth ...	30.02	51	48	WSW 5	c	4
Mullaghmore ...	29.83	54	52	WSW 8	o q m	7	Rochefort ...	30.60	56	54	WNW 1	c	2
Belmullet ...	29.86	54	53	WSW 10	am	8							

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

The reports for yesterday morning showed that pressure was highest, 30.5 ins. and upwards, in an anticyclone lying over the Iberian Peninsula, and lowest, 29.1 ins. and less, in two depressions lying respectively over the White Sea, and to the northward of our Islands. Steep gradients were again reported over the United Kingdom, and moderately steep gradients over the northern parts of Europe generally; and strong winds from W. or SW. were reported generally with gales on our extreme northwest coast. In the northwest of Norway, however, the wind was E², in Spain NE², and in the west and south of France NW², while in Italy and Algeria it was very variable. The weather was fair in Sweden and Denmark, as well as over the greater part of Southern Europe, but cloudy, or overcast elsewhere, with rain in the extreme north and northwest of our Islands, and snow at Warsaw and Hermanstadt. Temperature had risen somewhat over the whole of northwestern Europe, but fallen elsewhere, readings ranged from 55° and upwards at some of the Algerian stations, and 50° and upwards in many parts of our Islands as well as in Spain, and the west of France, and the south of Italy to several degrees below the freezing point over Northern Russia. The highest individual readings were 60° at Algiers, 59° at Sanguinac, 58° at Tiflis, 57° at San Fernando and Rhindiri, 55° at Oren and Palermo, and 54° at Valencia, Ushant, and Cagliari, the lowest were 3° at Kioptio, 10° at Helsingfors, 11° at Archangel, 14° at Uleaborg, 15° at Haparanda, 24° at Petersburg, 27° at Rode and Ruda-Roth, and 28° at Stockholm.

In the course of the day the depression to the northward of our Islands moved slowly eastward, and the barometer rose somewhat on our north and northwest coasts. Very little change was observed, however, in the winds or weather.

EXPLANATION OF COLUMNS GIVEN ON PAGE 1.

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

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

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

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

DAILY WEATHER REPORT.

for Saturday, 24th November

1888.

Issued by the Meteorological Office, 116, Victoria Street, London. R.H. SCOTT, Secretary.

		+ YESTERDAY EVENING.					8 A.M. TO DAY.										PAST 24 HOURS.		
STATIONS.		Barometer at 32° F. and Sea Level.	Temp. in Shade.	WIND.		Weather.	BAROMETER.		SHADE TEMP.			WIND.		Weather.	Sea (0 to 3.)	SHADE TEMP.		Amount of Rainfall.	
				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 ..	28.86	11	Z	0	0	28.85	-.04	3	2	-18	Z	0	b	*	25	?	0.12	
	Hernösand ...	28.97	23	Z	0	bc	28.84	-.11	22	21	-6	Z	0	b	*	34	21	-	
	Stockholm ...	29.21	39	SW	4	b	29.14	-.01	87	34	-1	SSW	4	b	*	43	30	-	
	Wisby ...	29.39	41	SW	8	b	29.34	+.04	42	39	0	NW	6	0	*	45	36	-	
	Bodö ...	28.71	30	ENE	2	b	28.63	-.04	27	24	0	ENE	4	b	2	30	25	-	
	Christiansund...	28.49	40	WSW	9	E	28.92	-.00	37	34	0	W	9	S	7	?	32	0.55	
	Skudesnaes ...	29.43	43	W	8	e	29.22	-.16	42	39	-1	W	5	0	5	43	39	-	
	Christiania Fjord (Harder)	29.32	41	WSW	9	b	29.15	-.10	42	39	0	WSW	8	0	6	48	41	-	
	Skagen (The Scaw)	29.50	42	NW	7	bc	29.32	-.11	40	39	-3	WNW	3	0	2	46	37	0.12	
	Fanö ...	29.83	45	W	6	e	29.47	-.22	47	46	+1	SW	6	r	*	?	43	0.16	
BRITISH ISLANDS.	Sumburgh Head	29.27	42	W	7	bc	29.24	+.03	42	40	+1	WNW	4	0	6	44	40	0.09	
	Stornoway ..	29.60	43	W	6	0	29.42	-.05	42	42	-1	W	3	0	4	45	37	0.82	
	Wick ...	29.56	40	NW	4	0	29.41	-.07	88	37	-1	W	2	bc	1	42	35	0.30	
	Nairn ...	29.65	44	W	4	e	29.45	-.10	86	35	-6	Z	0	0	1	46	34	0.62	
	Aberdeen...	29.72	42	SW	3	b	29.47	-.18	87	36	-5	WSW	2	0	3	47	37	0.22	
	Leith ...	29.86	46	W	5	e	29.49	-.27	51	48	+5	W	5	rny	*	55	46	0.36	
	Shields ...	29.92	51	WSW	3	e	29.53	-.30	54	52	+4	SW	7	0	2	55	47	-	
	Spurn Head ...	30.02	50	WSW	2	r	29.75	-.22	54	51	+2	SW	7	0	5	54	48	0.04	
	York ...	30.02	51	WSW	3	0	29.73	-.25	55	51	+4	W	7	e	*	56	48	0.01	
	Loughborough	30.10	54	WSW	5	0	29.92	-.14	53	50	0	WSW	6	0	5	56	51	-	
GERMANY.	Ardrossan ...	29.88	48	W	3	r	29.59	-.26	50	49	+2	W	4	r	3	53	46	0.81	
	Malin Head ...	29.96	46	W	4	0	29.63	-.19	47	47	-1	WNW	3	0	3	50	41	0.60	
	Mullaghmore ...	29.88	49	SW	5	r	29.70	-.28	54	53	+4	SW	7	0	6	54	47	0.42	
	Belmullet ...	29.89	52	SW	7	0	29.73	-.27	54	54	+3	WSW	10	0	*	54	48	0.23	
	Donaghadee ...	29.96	48	SW	7	r	29.64	-.27	54	54	+6	W	7	r	5	55	47	0.13	
	Barrow-in-Furness	29.93	49	SW	6	r	29.75	?	51	50	+1	SW	7	r	*	52	47	0.30	
	Liverpool (Bidston)	30.04	54	WSW	6	0	29.83	-.19	55	50	+1	WSW	8	0	4	57	49	0.11	
	Holyhead ...	30.07	53	SW	5	0	29.89	-.17	53	52	+1	SW	8	0	6	54	51	0.38	
	Parsonstown ...	30.06	53	SW	3	0	29.88	-.21	54	52	+4	WSW	4	0	*	54	49	0.17	
	Valencia ...	30.15	55	SW	7	0	30.05	-.15	54	53	0	WSW	6	0	6	55	53	0.04	
FRANCE & NETHERLANDS.	Roche's Point...	30.20	54	WSW	5	r	30.04	-.16	53	53	-1	WSW	5	rny	4	56	52	0.08	
	Pembroke ...	30.22	53	WSW	6	e	30.10	-.13	53	52	0	WSW	6	0	6	54	52	-	
	Seilly ...	30.37	54	WSW	5	0	30.27	-.11	54	52	-1	SW	6	0	6	55	52	-	
	Prawle Point ...	30.37	52	WSW	6	bc	30.26	-.12	53	50	0	WSW	6	0	5	54	49	-	
	Jersey ...	30.47	54	WSW	5	0	30.38	-.07	52	50	-1	WSW	7	0	5	55	50	0.07	
	Hurst Castle ...	30.54	54	W	6	e	30.22	-.10	53	52	0	W	7	0	5	56	52	-	
	Dungeness ...	30.29	53	W	6	e	30.15	-.10	53	50	0	W	6	0	5	57	52	-	
	London ...	30.28	54	WSW	4	e	30.11	-.10	52	48	0	WSW	5	0	*	57	50	-	
	Oxford ...	30.23	52	SW	6	e	30.07	-.14	52	49	-1	SW	8	0	*	55	50	-	
	Cambridge ...	30.17	53	SW	8	e	30.04	-.10	52	48	-1	SW	4	0	*	58	49	-	
PENINSULA.	Yarmouth ...	30.11	54	W	5	e	29.94	-.13	52	49	0	WSW	6	bcg	4	55	48	-	
	Cuxhaven ...	29.98	43	W	6	0	29.73	-.13	49	46	-1	SW	6	0	*	?	45	0.08	
	Berlin ...	30.05	50	W	5	r	29.95	-.02	50	48	+2	W	5	0	*	50	48	0.59	
	Wiesbaden ...	*	*	*	*	*	30.29	-.04	48	46	0	SW	3	0	*	50	46	-	
	Münster ...	30.52	43	W	3	0	30.45	-	40	37	-	SW	5	0	*	46	39	-	
	The Helder ...	30.08	50	SW	5	r	29.88	-.14	50	48	+1	SW	7	0	4	50	46	0.04	
	Brussels ...	*	*	*	*	*	30.11	-.17	48	45	-2	WSW	5	0	*	?	?	0.04	
	Cape Gris Nez...	30.27	52	W	9	0	30.17	-	53	51	-	WSW	8	0	6	55	?	-	
	Paris ...	30.30	50	SW	3	0	30.45	-.04	48	47	0	SW	4	0	*	53	47	-	
	Brest ...	30.50	51	WNW	5	0	30.47	-.05	53	51	+1	W	8	0	5	57	?	-	

For Explanation of Columns, see p. 4.

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

WEATHER CHARTS

for 8 a.m. on Saturday, 24th November 1888.

BAROMETER, WIND & SEA.

(Explanation of Map)

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

Sea Disturbance — where considerable, is shown thus.

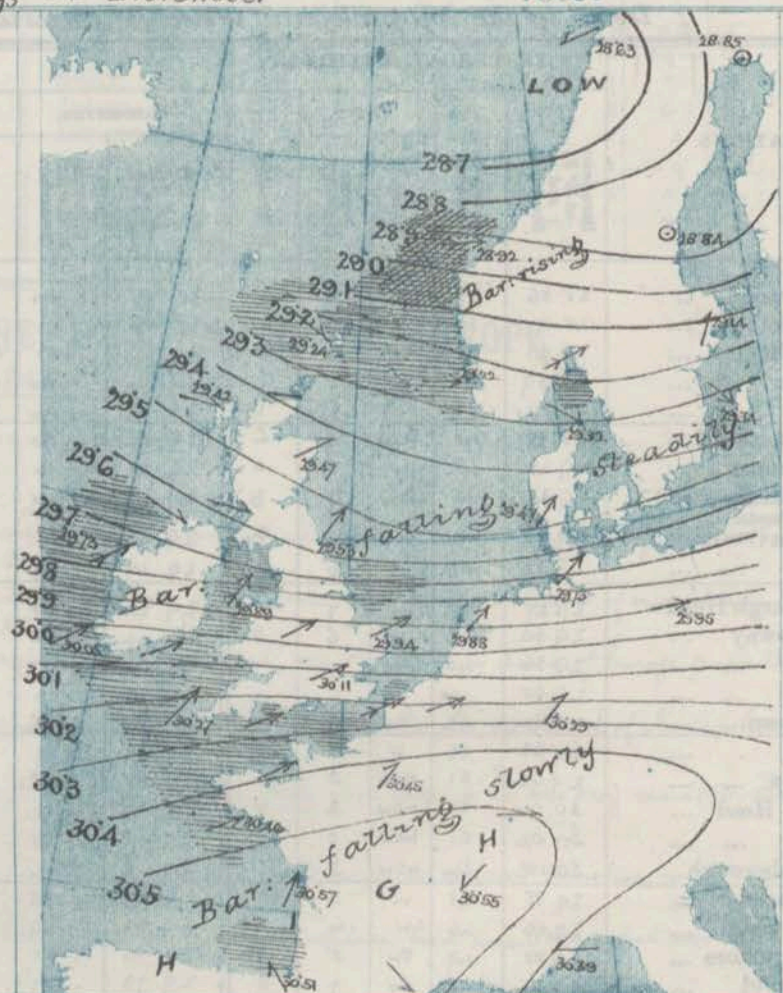
— Rough — High

MEAN HEIGHT of the BAROMETER

at 8 a.m. for the month of 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	29.898
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.

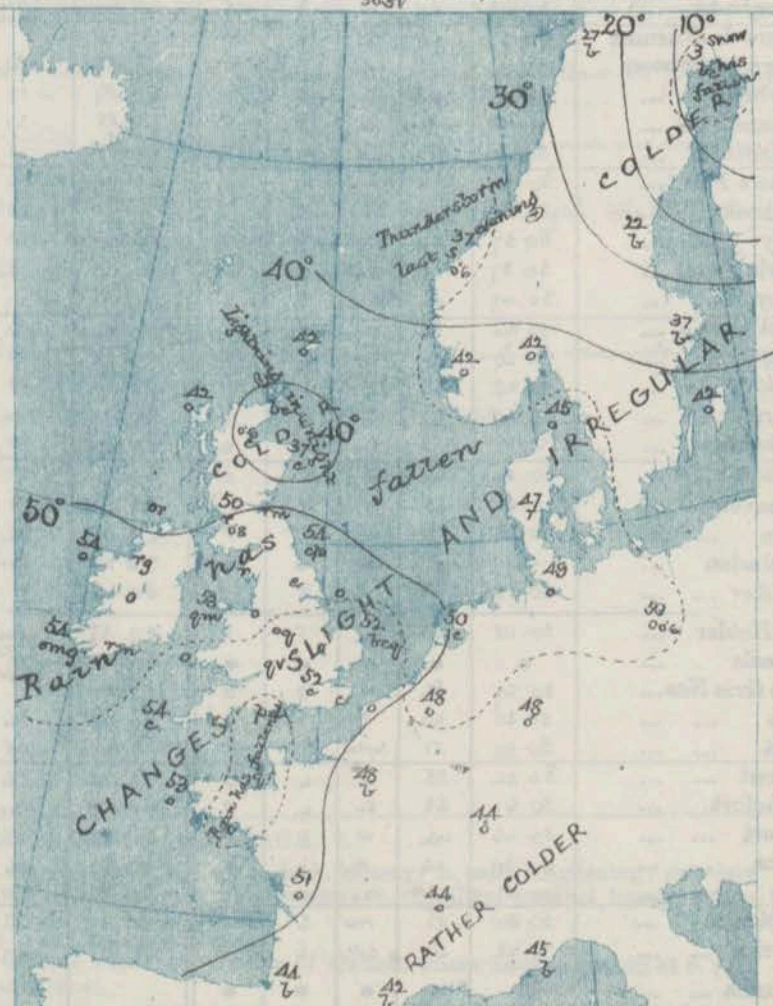
MEANS OF TEMPERATURE IN SHADE.

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	40.3	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	4.56
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	4.24
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	42.0	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, 30.5 in. and more, over the southeast of France and the northern half of the Iberian Peninsula.
Lowest, 28.7 in. and less, in a depression lying over the northern parts of Norway.
Gradients very steep over England and the southern parts of the North Sea.
Barometer unsteady in the far north, falling elsewhere most in the southeast.

TEMPERATURE

Highest, 55° at York and Liverpool, 54° at several of the Irish stations, Sully and Orient, and 51° even at Leth.
Lowest, 3° at Naparanda, 22° at Helsingland, 17° at Bodø, 36° at Nain, 37° at Aberdeen and Christiansund.
Thus Aberdeen was 14° colder than Leth. The thermometer has again fallen rather decidedly over the northeastern parts of Scotland.

WIND

Is still W^{ly} or SW^{ly} over Northwestern Europe generally, E^{ly} or NE^{ly} over Spain and the south of France.
Strong to a gale in force in Ireland, England, the Channel and North Sea.
Light to moderate in Scotland and also in Spain and the south of France.

WEATHER

Rain at present in the northeast of Scotland, cloudy or overcast elsewhere, and unsettled generally.
Rain showers prevail at the western stations and snow at Christiansund.
Rain has fallen in the west and north generally; thunder and lightning last night are reported from several northern stations.

SEA

High in the extreme north — rough on our northern and southern coasts, moderate in the southeast, slight or smooth on our northeast coasts.

PROBABLE CHANGES IN SYSTEM NOW PREVALENT

The high pressure area in the south appears to be now giving way somewhat, and the low pressure area in the north is undergoing considerable modifications in form. A change to weather of a somewhat northerly type seems likely to occur shortly.

FORECASTS

for the 24 hours ending at NOON on 25th Nov^r 1888.

DISTRICTS.

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

FORECASTS.

W^{ly} to NW^{ly} winds, moderate; some showers, colder.
SW^{ly} to NW^{ly} winds, strong; squally, some showers, becoming colder.
W^{ly} to NW^{ly} winds, strong to moderate; squally, colder, some showers.

DISTRICTS.

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



FORECASTS.

Same as Nos 0 and 1.

Wind veering to the NW^{ly} and moderating very slowly; colder, some showers.

NONE ISSUED.

WARNINGS

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

YESTERDAY'S 2 P.M. REPORTS.

	Bar.	Dry.	Wet.	Wind.	Wca.	Sea.		Bar.	Dry.	Wet.	Wind.	Wca.	Sea.
Skudesnes ...	29.43	43	41	W 8	0	6	Holyhead ...	30.09	52	52	W 2	d.g	2
Sumburgh Head ...	29.25	40	37	WNW 7	p.g	7	Valencia ...	30.20	55	54	SW 7	o.g.m	6
Stornoway ...	29.59	41	41	W 7	r	6	Scilly ...	30.38	55	52	WSW 5	0	6
Aberdeen ...	29.67	47	41	WSW 5	b	4	Jersey ...	30.47	55	51	WSW 5	0	4
Shields ...	29.56	51	48	WSW 6	bc	2	Dungeness ...	30.25	54	52	W 6	c	5
Ardrossan ...	29.40	50	47	W 4	0	3	London ...	30.25	57	53	W 3	0	5
Malin Head ...	29.89	49	46	W 4	0	5	Yarmouth ...	30.09	55	52	WSW 4	c	3
Mullaghmore ...	29.99	49	48	WSW 5	or	7	Rocheport ...	30.62	54	52	WSW 4	0	2
Belmullet ...	29.99	49	48	WSW 4	or	7							

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

The report for yesterday morning showed that a large anticyclone with readings above 30.5 in. was still lying over the Iberian Peninsula and the greater part of France, while a depression, with readings below 28.7 in. was lying off the northwest of Norway. Steep gradients continued to prevail over the whole of Northern and Northwestern Europe, and very strong breezes from N. or SW. blew at all but the extreme northern stations, where the wind drew into SE. or E. Over Southern Europe, however, moderate breezes from between NW. and NE. were general. The weather was fine in Algeria, Spain, and the south of France as well as in the south of Sweden, but cloudy or overcast elsewhere, with slight rain in many places, and snow over Lapland and Northern Russia. Temperature had fallen several degrees in the north of our Islands, but risen in most other localities; readings ranged from 50° and upwards over Ireland, England, the west and north of France and the shores of the Mediterranean to a few degrees below the freezing point over the northern parts over the northern parts of Scandinavia and Russia, as well as over Central Austria. The highest individual readings were 60° at Algiers, 57° at Bastia, 55° at Scilly, Tangier, and Malta and 54° at Liverpool, Valencia, Rock Point, Lisant and Brindisi; the lowest were 20° at Archangel, 21° at Haparanda, 22° at Uleaborg, and Helsingfors, 26° at Kiofio, 27° at Rode, 28° at Helsingfors, and 30° at Madrid, Budapest and Kiev.

In the course of the day, the deep depression off the north coast of Norway remained almost stationary, but at night some ill defined secondary disturbances appear to have crossed the northern parts of Ireland and England, occasioning moderate W. gales on our western and southern coasts. Lightning was seen in the north of Scotland at night and a thunderstorm occurred at Christiania.

EXPLANATION OF COLUMNS GIVEN ON PAGE 1.

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

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

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

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

DAILY WEATHER REPORT.

for Sunday 25th Nov^r 1888.
Issued by the Meteorological Office, 116, Victoria Street, London. R. H. SCOTT, Secretary.

		† YESTERDAY EVENING.					8 A.M. TO DAY.										PAST 24 HOURS.		
STATIONS.		Barometer at 32° F. and Sea Level.	Temp. in Shade.	WIND.		Weather.	BAROMETER.		SHADE TEMP.			WIND.		Weather.	Sea. (0 to 2.)	SHADE TEMP.			
				Dir.	Force. (0 to 12.)		Reading at 8 a.m. and Sea Level.	Difference from 8 a.m. yesterday.	Dry.	Wet.	Difference from 8 a.m. yesterday.	Dir.	Force. (0 to 12.)			Max.	Min.	Amount of Rainfall.	
SCANDINAVIA.	Haparanda ..	28.74	14	NE	2	S	28.96	+ .11	22	21	+ .19	NNE	2	S	*	?	0	0.12	
	Hernösand ...	28.80	28	2	0	b	29.11	+ .27	29	28	+ .7	NE	2	0	*	34	19	—	
	Stockholm ...	29.01	34	WSW	4	b	29.26	+ .12	33	28	— .4	WSW	2	b	*	41	32	—	
	Wisby ...	29.10	39	NNW	6	b	29.35	+ .01	37	35	— .5	NNW	8	b	*	45	32	0.28	
	Bodö ...	28.84	23	ENE	2	b	29.09	+ .46	25	22	— .2	E	2	0	2	27	?	—	
	Christiansund...	29.09	39	NNW	8	C	29.40	+ .48	35	31	— .2	NNW	2	bc	6	39	32	0.32	
	Skudesnaes ...	29.40	42	W	8	r	29.51	+ .29	41	39	— .1	ESE	4	0	5	43	37	—	
	Christiania Fjord (Færdor)	29.25	41	WSW	8	b	29.49	+ .34	37	33	— .5	WNW	5	b	4	42	37	—	
	Skagen (The Scaw)	29.33	42	NNW	7	0	29.52	+ .20	39	38	— .1	NNW	3	C	2	43	36	0.20	
	Fanö ...	29.60	43	WSW	4	C	29.65	+ .18	44	44	— .3	SSW	1	m	*	48	43	0.24	
BRITISH ISLANDS.	Sumburgh Head	29.38	42	WNW	1	0	29.22	— .02	40	39	— .2	SSE	6	r	5	43	39	0.21	
	Stornoway ..	29.46	44	W	4	r	28.90	— .52	52	52	+ .10	SW	9	r	7	52	41	0.90	
	Wick ...	29.48	45	WNW	2	r	29.02	— .39	50	48	+ .12	SSW	5	ow	3	50	36	0.25	
	Nairn ...	29.48	45	SW	1	r	29.12	— .33	52	51	+ .16	SW	5	0	2	52	35	0.22	
	Aberdeen...	29.54	42	S	1	0	29.30	— .17	50	49	+ .13	SSW	5	ogw	4	52	37	0.16	
	Leith ...	29.56	49	W	2	r	29.37	— .12	54	50	+ .3	WSW	6	e	*	54	47	0.17	
	Shields ...	29.63	56	W	5	0	29.34	+ .01	54	50	— .4	SW	4	b	2	57	50	0.08	
	Spurn Head ...	29.79	54	WSW	7	0	29.76	+ .01	53	50	— .1	SSW	5	C	4	55	51	—	
	York ...	29.79	56	W	8	0	29.69	— .14	54	50	— .1	SW	4	C	*	58	53	—	
	Loughborough	29.95	56	WSW	5	0	29.85	— .07	55	51	+ .2	WSW	3	C	*	56	52	—	
GERMANY.	Ardrossan ...	29.61	52	SW	4	r	29.33	— .26	53	52	+ .3	SSW	6	0	5	53	47	0.24	
	Malin Head ...	29.64	52	WSW	7	0	29.27	— .36	51	49	+ .4	WSW	8	2	6	53	47	0.42	
	Mullaghmore...	29.74	54	SW	7	0	29.36	— .34	50	49	— .4	SW	8	org	6	55	50	0.13	
	Belmullet ...	29.74	54	SW	8	0	29.36	— .37	52	48	— .2	WSW	9	0	*	56	48	0.06	
	Donaghadee ...	29.75	55	WSW	4	0	29.46	— .18	53	51	— .1	WSW	6	C	4	56	53	0.01	
	Barrow-in-Furness	29.82	53	SW	7	0	29.62	— .13	57	51	+ .1	S	6	bc	*	53	50	0.02	
	Liverpool (Bidston)	29.88	50	WSW	7	0	29.73	— .10	55	51	— .4	WSW	6	0	4	57	53	—	
	Holyhead ...	29.93	54	SW	6	0	29.68	— .21	54	52	+ .1	SSW	8	gmg	6	56	52	—	
	Parsonstown ...	29.98	54	SW	3	0	29.54	— .24	55	53	+ .1	WSW	4	0	*	58	52	0.02	
	Valencia ...	29.99	56	SW	5	0	29.52	— .53	52	51	— .2	WSW	5	r	6	56	50	0.26	
FRANCE & NETHERLANDS.	Roche's Point...	30.04	54	WSW	5	bc	29.69	— .35	54	52	+ .1	SW	7	ow	5	56	52	0.01	
	Pembroke ...	30.08	53	WSW	6	0	29.83	— .27	54	53	+ .1	SW	7	cg	6	54	52	—	
	Scilly ...	30.21	54	SW	6	C	29.99	— .28	55	52	+ .1	SSW	7	0	6	57	52	—	
	Prawle Point ...	30.24	53	WSW	6	0	30.05	— .21	53	52	— .1	WSW	6	C	5	54	51	—	
	Jersey ...	30.34	54	WSW	6	0	30.18	— .20	54	49	+ .2	SW	6	ogm	5	54	51	0.02	
	Hurst Castle ...	30.18	54	W	8	bc	30.05	— .17	53	52	— .1	WSW	7	cm	5	55	52	0.02	
	Dungeness ...	30.12	53	W	6	C	30.00	— .15	53	51	— .2	W	7	p	5	54	52	0.02	
	London ...	30.11	54	WSW	5	0	29.98	— .13	54	52	+ .2	SW	5	og	*	56	52	—	
	Oxford ...	30.08	52	SW	6	0	29.95	— .12	53	51	+ .1	SW	5	C	*	54	51	—	
	Cambridge ...	30.01	53	SW	4	0	29.91	— .13	54	51	+ .2	SW	4	0	*	56	50	—	
PENINSULA.	Yarmouth ...	29.94	53	WSW	6	C	29.91	— .03	53	51	+ .1	SW	4	cg	4	55	50	—	
	Cuxhaven ...	29.69	47	W	8	r	29.79	+ .06	50	49	+ .1	W	6	0	*	50	47	0.22	
	Berlin ...	29.76	50	W	7	r	29.82	— .13	50	49	— .1	W	6	r	*	52	50	0.57	
	Wiesbaden ...	*	*	*	*	*	30.22	— .07	50	48	+ .2	SW	5	0	*	50	46	—	
	Munich ...	30.35	41	W	7	0	30.22	— .13	39	36	— .3	SW	5	bc	*	43	37	—	
	The Helder ...	29.88	57	WSW	7	0	29.91	+ .03	50	48	— .1	SW	5	C	3	52	48	—	
	Brussels ...	*	*	*	*	*	30.13	+ .02	49	46	+ .1	SW	4	0	*	53	48	—	
	Cape Gris Nez...	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	
	Paris ...	30.38	50	SW	3	0	30.29	— .16	48	45	— .3	SW	3	0	*	53	47	—	
	Brest ...	30.39	54	ESE	5	0	30.15	— .29	54	50	+ .1	SW	9	b	7	57	42	—	

For Explanation of Columns, see p. 4.

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

1888.

(Explanation of Map)

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

* → = forces above W_1 → = forces 8 to W_1
 → = forces 5 to 7; → = forces 1 to 4;
 ⊙ = dead calm.

Sea Disturbance—where considerable, is shewn thus

 = Rough  = HighMEAN HEIGHT *of the* BAROMETER

at 6 a. m. for the month of November

During the 15 Years 1871—1886

A hand-drawn weather map of the North Atlantic region, showing isobars, wind directions, and pressure trends. The map includes the following features:

- Isobars:** Labeled with values such as 29.1, 29.2, 29.3, 29.4, 29.5, 29.6, 29.7, 29.8, 29.9, 30.0, 30.1, 30.2, 30.3, 30.4, 30.5, 30.6, 30.7, 30.8, 30.9, 31.0, 31.1, 31.2, 31.3, 31.4, 31.5, 31.6, 31.7, 31.8, 31.9, 32.0, 32.1, 32.2, 32.3, 32.4, 32.5, 32.6, 32.7, 32.8, 32.9, 33.0, 33.1, 33.2, 33.3, 33.4, 33.5, 33.6, 33.7, 33.8, 33.9, 34.0, 34.1, 34.2, 34.3, 34.4, 34.5, 34.6, 34.7, 34.8, 34.9, 35.0, 35.1, 35.2, 35.3, 35.4, 35.5, 35.6, 35.7, 35.8, 35.9, 36.0, 36.1, 36.2, 36.3, 36.4, 36.5, 36.6, 36.7, 36.8, 36.9, 37.0, 37.1, 37.2, 37.3, 37.4, 37.5, 37.6, 37.7, 37.8, 37.9, 38.0, 38.1, 38.2, 38.3, 38.4, 38.5, 38.6, 38.7, 38.8, 38.9, 39.0, 39.1, 39.2, 39.3, 39.4, 39.5, 39.6, 39.7, 39.8, 39.9, 40.0, 40.1, 40.2, 40.3, 40.4, 40.5, 40.6, 40.7, 40.8, 40.9, 41.0, 41.1, 41.2, 41.3, 41.4, 41.5, 41.6, 41.7, 41.8, 41.9, 42.0, 42.1, 42.2, 42.3, 42.4, 42.5, 42.6, 42.7, 42.8, 42.9, 43.0, 43.1, 43.2, 43.3, 43.4, 43.5, 43.6, 43.7, 43.8, 43.9, 44.0, 44.1, 44.2, 44.3, 44.4, 44.5, 44.6, 44.7, 44.8, 44.9, 45.0, 45.1, 45.2, 45.3, 45.4, 45.5, 45.6, 45.7, 45.8, 45.9, 46.0, 46.1, 46.2, 46.3, 46.4, 46.5, 46.6, 46.7, 46.8, 46.9, 47.0, 47.1, 47.2, 47.3, 47.4, 47.5, 47.6, 47.7, 47.8, 47.9, 48.0, 48.1, 48.2, 48.3, 48.4, 48.5, 48.6, 48.7, 48.8, 48.9, 49.0, 49.1, 49.2, 49.3, 49.4, 49.5, 49.6, 49.7, 49.8, 49.9, 50.0, 50.1, 50.2, 50.3, 50.4, 50.5, 50.6, 50.7, 50.8, 50.9, 51.0, 51.1, 51.2, 51.3, 51.4, 51.5, 51.6, 51.7, 51.8, 51.9, 52.0, 52.1, 52.2, 52.3, 52.4, 52.5, 52.6, 52.7, 52.8, 52.9, 53.0, 53.1, 53.2, 53.3, 53.4, 53.5, 53.6, 53.7, 53.8, 53.9, 54.0, 54.1, 54.2, 54.3, 54.4, 54.5, 54.6, 54.7, 54.8, 54.9, 55.0, 55.1, 55.2, 55.3, 55.4, 55.5, 55.6, 55.7, 55.8, 55.9, 56.0, 56.1, 56.2, 56.3, 56.4, 56.5, 56.6, 56.7, 56.8, 56.9, 57.0, 57.1, 57.2, 57.3, 57.4, 57.5, 57.6, 57.7, 57.8, 57.9, 58.0, 58.1, 58.2, 58.3, 58.4, 58.5, 58.6, 58.7, 58.8, 58.9, 59.0, 59.1, 59.2, 59.3, 59.4, 59.5, 59.6, 59.7, 59.8, 59.9, 60.0, 60.1, 60.2, 60.3, 60.4, 60.5, 60.6, 60.7, 60.8, 60.9, 61.0, 61.1, 61.2, 61.3, 61.4, 61.5, 61.6, 61.7, 61.8, 61.9, 62.0, 62.1, 62.2, 62.3, 62.4, 62.5, 62.6, 62.7, 62.8, 62.9, 63.0, 63.1, 63.2, 63.3, 63.4, 63.5, 63.6, 63.7, 63.8, 63.9, 64.0, 64.1, 64.2, 64.3, 64.4, 64.5, 64.6, 64.7, 64.8, 64.9, 65.0, 65.1, 65.2, 65.3, 65.4, 65.5, 65.6, 65.7, 65.8, 65.9, 66.0, 66.1, 66.2, 66.3, 66.4, 66.5, 66.6, 66.7, 66.8, 66.9, 67.0, 67.1, 67.2, 67.3, 67.4, 67.5, 67.6, 67.7, 67.8, 67.9, 68.0, 68.1, 68.2, 68.3, 68.4, 68.5, 68.6, 68.7, 68.8, 68.9, 69.0, 69.1, 69.2, 69.3, 69.4, 69.5, 69.6, 69.7, 69.8, 69.9, 70.0, 70.1, 70.2, 70.3, 70.4, 70.5, 70.6, 70.7, 70.8, 70.9, 71.0, 71.1, 71.2, 71.3, 71.4, 71.5, 71.6, 71.7, 71.8, 71.9, 72.0, 72.1, 72.2, 72.3, 72.4, 72.5, 72.6, 72.7, 72.8, 72.9, 73.0, 73.1, 73.2, 73.3, 73.4, 73.5, 73.6, 73.7, 73.8, 73.9, 74.0, 74.1, 74.2, 74.3, 74.4, 74.5, 74.6, 74.7, 74.8, 74.9, 75.0, 75.1, 75.2, 75.3, 75.4, 75.5, 75.6, 75.7, 75.8, 75.9, 76.0, 76.1, 76.2, 76.3, 76.4, 76.5, 76.6, 76.7, 76.8, 76.9, 77.0, 77.1, 77.2, 77.3, 77.4, 77.5, 77.6, 77.7, 77.8, 77.9, 78.0, 78.1, 78.2, 78.3, 78.4, 78.5, 78.6, 78.7, 78.8, 78.9, 79.0, 79.1, 79.2, 79.3, 79.4, 79.5, 79.6, 79.7, 79.8, 79.9, 80.0, 80.1, 80.2, 80.3, 80.4, 80.5, 80.6, 80.7, 80.8, 80.9, 81.0, 81.1, 81.2, 81.3, 81.4, 81.5, 81.6, 81.7, 81.8, 81.9, 82.0, 82.1, 82.2, 82.3, 82.4, 82.5, 82.6, 82.7, 82.8, 82.9, 83.0, 83.1, 83.2, 83.3, 83.4, 83.5, 83.6, 83.7, 83.8, 83.9, 84.0, 84.1, 84.2, 84.3, 84.4, 84.5, 84.6, 84.7, 84.8, 84.9, 85.0, 85.1, 85.2, 85.3, 85.4, 85.5, 85.6, 85.7, 85.8, 85.9, 86.0, 86.1, 86.2, 86.3, 86.4, 86.5, 86.6, 86.7, 86.8, 86.9, 87.0, 87.1, 87.2, 87.3, 87.4, 87.5, 87.6, 87.7, 87.8, 87.9, 88.0, 88.1, 88.2, 88.3, 88.4, 88.5, 88.6, 88.7, 88.8, 88.9, 89.0, 89.1, 89.2, 89.3, 89.4, 89.5, 89.6, 89.7, 89.8, 89.9, 90.0, 90.1, 90.2, 90.3, 90.4, 90.5, 90.6, 90.7, 90.8, 90.9, 91.0, 91.1, 91.2, 91.3, 91.4, 91.5, 91.6, 91.7, 91.8, 91.9, 92.0, 92.1, 92.2, 92.3, 92.4, 92.5, 92.6, 92.7, 92.8, 92.9, 93.0, 93.1, 93.2, 93.3, 93.4, 93.5, 93.6, 93.7, 93.8, 93.9, 94.0, 94.1, 94.2, 94.3, 94.4, 94.5, 94.6, 94.7, 94.8, 94.9, 95.0, 95.1, 95.2, 95.3, 95.4, 95.5, 95.6, 95.7, 95.8, 95.9, 9

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

Weather is shown by Letters of the Beaufort Scale.

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

MEANS OF TEMPERATURE IN SHADE

AND RAINFALL,
for the month of November

A hand-drawn map of Europe and the North Atlantic, showing isotherms and weather patterns. The map includes latitude and longitude lines. Handwritten notes include "Rain", "has", "fallen", "much milder", "much milder", "snow here or near on", "snow has fallen", "LE here", "CHANGE", "COLDER HERE", and "W". Numerous numerical values are scattered across the map, likely representing temperature or precipitation data.

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

GENERAL SITUATION AT 8 A.M.

PRESSURE

Highest, 30.40 in. at Lyons; 30.3 in. and upwards over the whole of Spain and the greater part of France.
Lowest, 29.2 in. and less, in a deep depression lying off the northwest of Scotland; 29.0 in. and less over the Gulf of Bothnia.
Gradients steep over our Islands, but moderate or slight elsewhere.
Barometer falling over the whole of the United Kingdom and France — quickly in the extreme northwest.

TEMPERATURE

Highest, 53° at Loughborough, Carsonston, Liverpool, Scilly and Orient, and 54° in many parts of England and Ireland.
Lowest, 22° at Haparanda, 25° at Vöde, 23° at Helsingfors, 33° at Stockholm and Reppan, 35° at Christianmünd and 36° at Kinnik.

WIND

SW. over the greater part of Western Europe; strong to a gale in force on our western and northwestern coasts.
Light or moderate from the NE. in the north of Sweden and also in the south of France.

WEATHER

Cloudy generally, with rain on our extreme western and northern coasts.
Fine in the southern parts of Scandinavia and France.
Since yesterday morning rain has fallen in all the more western and northern parts of the United Kingdom.

SEA

High at Stormway and rough or rather so on all but our east coasts.

PROBABLE CHANGES IN SYSTEM NOW PREVALENT

During the past night a new and deep depression has advanced with great rapidity to our extreme northwestern coasts, and increasing gradients for SW. winds are reported over the whole of our Islands. The disturbance will probably travel northward.

FORECASTS

for the 24 hours ending at NOON on 26th Nov^r 1888.

DISTRICTS.

- f10 { SCOTLAND NORTH
- f11 { SCOTLAND EAST
- f12 { ENGLAND N.E.
- f13 { ENGLAND EAST
- f14 { MIDLAND COUNTIES
- f15 { ENGLAND SOUTH

FORECASTS.

NONE ISSUED

DISTRICTS.

- f16 { SCOTLAND WEST
- f17 { ENGLAND N.W.
- f18 { ENGLAND S.W.
- f19 { IRELAND NORTH
- f20 { IRELAND SOUTH

WARNINGS

FORECASTS.

NONE ISSUED.

The SOUTH CONE has been hoisted this morning on all 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.	Dry.	Wet.	Wind.	Wea.	Sea.		Bar.	Dry.	Wet.	Wind.	Wea.	Sea.
Skudesnaes ...	29.92	43	40	W 6	c	5	Holyhead ...	29.92	54	52	SW 6	omggy	6
Samburgh Head ...	29.35	41	38	WNW 2	o	6	Valencia ...	30.02	56	54	SW 4	omg	6
Stornoway ...	29.45	46	46	W 4	r	4	Scilly ...	30.24	56	58	SW 6	bc	6
Aberdeen ...	29.59	45	42	SW 2	o	3	Jersey ...	30.37	53	50	SW 4	o	5
Shields ...	29.65	51	50	WSW 1	a	2	Dungeness ...	30.13	54	51	W 6	o	5
Ardrossan ...	29.62	45	48	SW 3	r	3	London ...	30.10	56	52	SW 4	o	*
Malin Head ...	29.55	52	52	W 7	ob	6	Yarmouth ...	29.94	55	52	WSW 6	bc	4
Mullaghmore ...	29.78	54	52	SW 7	omg	6	Rocheport ...	30.55	50	52	SW 4	o	2
Belmullet ...	29.75	54	53	WSW 8	omg	*							

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

Yesterday morning observations showed a continuation both of the high pressure recently observed over the Mediterranean and Southwestern and Southern Europe, and the low pressure systems in the far north. The latter, however, were undergoing some modifications in form and depth, and readings varied from between 30.5 ins. and 30.7 ins. over Spain and the southwest of France to about 28.7 ins. in the extreme north of Norway. W¹ and SW¹ winds prevailed over all the more northern countries, and blew with great but decreasing force over the whole of the British Islands and North Sea, accompanied by squally, and in many places showery weather. Over Southern Europe the wind was lighter, and from a more NW² quarter, and the weather there was fine. Temperature ranged from between 50° and a little above 60° over the greater part of the Mediterranean, and from upwards of 50° over the whole of Ireland and England to less than 40° in Scotland (where it had again fallen) and to very little above zero (F.) at the northern extremity of the Gulf of Bothnia. The highest individual values were 61° at Cagliari, 58° at Sanguinaire, 56° at Algiers, 54° at Orient, Scilly, Valencia, Mullaghmore and Spinnth¹, 52° in London, and 50° at the Helder; the lowest were 3° at Hammar, 12° at Ulsborg, 22° at Hmrisand, 24° at Hango and 28° at Kharkov.

Later in the day there was little change in our Islands beyond a slight recovery of pressure in the far north, and a slight fall in the southwest.

EXPLANATION OF COLUMNS GIVEN ON PAGE 1.

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

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

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

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

DAILY WEATHER REPORT.

for *Monday, 26th November 1888.*
Issued by the Meteorological Office, 116, Victoria Street, London. R.H. SCOTT, Secretary.

STATIONS.	† YESTERDAY EVENING.						8 A.M. TO DAY.										PAST 24 HOURS.		
	Barometer at 32° F. and Sea Level.	Temp. in Shade.	WIND.			Weather.	BAROMETER.		SHADE TEMP.			WIND.			Weather.	Sea. (0 to 9.)	SHADE TEMP.		
			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 ..	29.29	15	2	0	bc	29.00	+ .04	17	16	- .5	SE	4	0	*		23	12	-
	Hernösand ..	29.30	21	2	0	c	28.90	- .21	28	27	- .1	SW	2	0	*		30	19	-
	Stockholm ..	29.41	34	2	0	0	29.06	- .20	43	42	+ .10	SSW	2	0	*		?	?	-
	Wisby ...	29.55	37	W	4	b	29.28	- .07	45	44	+ .8	SW	6	0	*		36		-
	Bodö ...	29.10	26	E	2	s	28.68	- .41	24	22	- .1	ENE	4	0	*		27	21	-
	Christiansund...	28.82	35	SSW	6	s	28.60	- .80	36	35	+ .1	ENE	4	0	*		36	34	0.32
	Skudesnaes ...	29.14	47	S	8	b	28.92	- .59	45	41	+ .4	SW	9	0	7		41		0.63
	Christiania Fjord (Fjord)	29.21	43	SSW	4	r	29.00	- .49	44	42	+ .7	SW	8	0	5		43	36	-
	Skagen (The Seaw)	29.29	47	W	7	r	29.16	- .36	45	44	+ .6	W	6	0	3		48	37	0.28
	Fanö ...	29.52	48	SW	6	0	29.38	- .27	45	44	+ .1	SW	5	0	*		48	43	0.08
BRITISH ISLANDS.	Sumburgh Head	28.70	43	SW	8	0						W	7	0	5		52	37	0.38
	Stornoway ...	28.80	46	W	9	b	29.03	+ .13	39	39	- .13	W	7	0	5		52	36	0.10
	Wick ...	28.90	40	W	6	b	28.96	- .06	39	36	- .11	W	6	0	4		56	39	0.12
	Nairn ...	28.98	45	W	6	0	29.03	- .09	40	39	- .12	W	4	0	2		56	39	0.12
	Aberdeen...	29.13	45	SSW	6	b	29.10	- .20	39	36	- .11	SW	5	0	5		54	38	0.01
	Leith ...	29.25	45	WSW	3	b	29.20	- .17	41	38	- .13	W	6	0	*		56	39	0.07
	Shields ...	29.36	50	WSW	4	c	29.32	- .22	42	38	- .12	SW	4	0	2		59	41	0.01
	Spurn Head ...	29.53	54	WSW	4	c	29.48	- .28	44	42	- .9	WSW	4	0	3		55	42	0.02
	York ...	29.51	51	SW	3	r	29.44	- .25	43	40	- .12	SSW	4	0	*		58	40	0.20
	Loughborough	29.60	53	SW	6	0	29.55	- .30	43	41	- .12	WSW	2	0	*		55	41	0.22
GERMANY.	Ardrossan ...	29.25	49	SSW	6	op	29.24	- .06	42	41	- .11	SW	6	0	5		52	41	0.11
	Malin Head ...	29.18	43	WSW	7	op	29.31	+ .04	41	40	- .10	WSW	5	0	6		51	38	0.13
	Mullaghmore ...	29.35	44	SW	8	op	29.42	+ .06	43	40	- .7	W	6	0	5		51	38	0.14
	Belmullet ...	29.39	44	WSW	8	op	29.46	+ .10	44	41	- .8	WSW	5	0	*		52	40	0.25
	Donaghadee ...	29.37	47	SW	5	c	29.40	- .06	37	35	- .16	WSW	4	0	3		54	36	0.03
	Barrow-in-Furness	29.46	49	SW	7	0	29.44	- .18	44	40	- .8	W	6	0	*		53	44	0.11
	Liverpool (Bidston)	29.52	48	W	3	r	29.50	- .23	41	39	- .14	WSW	4	0	5		58	41	0.27
	Holyhead ...	29.52	50	SW	5	op	29.51	- .17	43	39	- .11	W	5	0	4		55	43	0.16
	Parsonstown ...	29.53	45	SW	2	b	29.56	+ .02	33	32	- .22	W	0	0	*		?	32	0.12
	Valencia ...	29.63	49	WSW	4	bc	29.55	+ .03	42	40	- .10	SE	1	0	2		52	38	0.23
FRANCE & NETHERLANDS.	Roche's Point...	29.61	48	W	3	b	29.60	- .09	38	36	- .16	W	1	0	4		55	38	0.26
	Pembroke ...	29.62	52	WSW	5	r	29.62	- .21	44	42	- .10	W	4	0	6		54	42	0.48
	Scilly ...	29.71	56	SSW	8	0	29.69	- .30	47	44	- .8	W	5	0	6		56	45	0.24
	Brawle Point ...	29.79	54	SW	7	0	29.69	- .36	47	45	- .6	WSW	4	0	5		52	40	0.33
	Jersey ...	30.00	54	SSW	5	bc	29.76	- .42	54	51	- .10	WSW	6	0	5		58	52	0.10
	Hurst Castle ...	29.84	54	SW	8	op	29.64	- .41	51	49	- .2	WSW	6	0	6		56	48	0.36
	Dungeness ...	29.88	53	WSW	7	0	29.88	- .42	52	50	- .1	WSW	7	0	6		54	52	0.05
	London ...	29.80	54	WSW	6	op	29.59	- .39	46	45	- .8	SW	3	0	*		56	46	0.44
	Oxford ...	29.67	54	SW	7	r	29.61	- .34	43	42	- .10	WSW	3	0	*		55	43	0.40
	Cambridge ...	29.71	53	SW	2	0	29.58	- .33	44	43	- .10	SW	1	0	*		57	41	0.40
PENINSULA.	Yarmouth ...	29.74	53	SW	6	op	29.55	- .36	45	44	- .8	WSW	2	0	3		55	44	0.33
	Cuxhaven ...	29.77	45	WSW	6	0	29.88	- .21	46	46	- .4	SW	7	0	*		50	44	0.05
	Berlin ...	29.93	51	WSW	4	0	29.81	- .01	46	44	- .4	SW	4	0	*		52	45	0.04
	Wiesbaden ...	*	*	*	*	*	29.97	- .25	44	40	- .6	SW	4	0	*		50	43	-
	Munich ...	30.22	32	W	0	b	30.07	- .25	28	28	- .11	SW	2	0	*		45	27	-
	The Helder ...	29.76	49	SW	8	c	29.51	- .40	48	47	- .2	SW	7	0	4		50	46	0.16
	Brussels ...	*	*	*	*	*	29.73	- .40	46	44	- .3	S	7	0	*		51	46	0.04
	Cape Gris Nez...	29.84	52	SW	8	0	29.60	- .40	51	51	- .1	SW	11	0	8		55	50	0.12
	Paris ...	30.14	48	SSW	4	0	29.91	- .38	41	41	- .1	SSW	7	0	*		50	44	-
	Brost ...	30.02	54	S	11	0	29.84	- .34	54	50	- .4	W	7	0	6		57	41	0.12
PENINSULA.	Lorient ...	30.06	55	SW	8	0	29.84	- .41	55	52	- .3	W	7	0	5		56	52	0.16
	Rochefort ...	30.26	49	SSW	4	c	30.08	- .30	49	49	- .2	S	7	0	2		54	41	-
	Belfort ...	30.16	37	W	1	bc	30.08	- .25	28	28	- .16	W	1	0	*		46	26	-
	Lyons ...	*	*	*	*	*	*	*	*	*	*	*	*	*	*		*	*	-
	Nice ...	30.25	50	E	1	0	30.25	- .03	46	43	+ .3	ENE	4	0	1		35	44	-
PENINSULA.	Perpignan ...	30.16	45	W	0	b	30.26	- .07	46	41	+ .13	SW	1	0	*		60	?	-
	Biarritz ...	30.21	49	W	0	m	30.11	- .21	47	45	+ .11	SSW	3	0	2		57	?	-
PENINSULA.	Corunna ...	*	*	*	*	*	*	*	*	*	*	*	*	*	*		*	*	-
	Lisbon ...	*	*	*	*	*	*	*	*	*	*	*	*	*	*		*	*	-

1888.

(Explanation of Map)

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

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

⊙ = dead calm.

Sea Disturbance!— where considerable is shewn thus.

 = Rough = High

MEAN HEIGHT of the BAROMETER

at 6 a. m. for the month of November

During the 45 Years 1871 — 1886

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

Weather is shown by Letters of the Beaufort Scale

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

MEANS OF TEMPERATURE IN SHADE.
AND RAINFALL.

for the month of November

A hand-drawn weather map of Europe and the North Atlantic. The map features several weather systems and data points:

- SEVERAL**: Written in the upper left quadrant.
- Bright aurora** and **at last night**: Written in the upper central quadrant.
- fallen**: Written in the upper right quadrant.
- WARMER**: Written in the upper right quadrant.
- DRY**: Written in the center of the map.
- WIND**: Written in the center of the map.
- COLDER**: Written in the lower right quadrant.
- Rain**: Written in the lower left quadrant.
- WARMER**: Written in the lower left quadrant.

The map includes various data points and symbols:

- Isobars: Solid lines labeled 1000, 1020, 1040, 1060, 1080, 1100, 1120, 1140, 1160, 1180, 1200, 1220, 1240, 1260, 1280, 1300, 1320, 1340, 1360, 1380, 1400, 1420, 1440, 1460, 1480, 1500, 1520, 1540, 1560, 1580, 1600, 1620, 1640, 1660, 1680, 1700, 1720, 1740, 1760, 1780, 1800, 1820, 1840, 1860, 1880, 1900, 1920, 1940, 1960, 1980, 2000, 2020, 2040, 2060, 2080, 2100, 2120, 2140, 2160, 2180, 2200, 2220, 2240, 2260, 2280, 2300, 2320, 2340, 2360, 2380, 2400, 2420, 2440, 2460, 2480, 2500, 2520, 2540, 2560, 2580, 2600, 2620, 2640, 2660, 2680, 2700, 2720, 2740, 2760, 2780, 2800, 2820, 2840, 2860, 2880, 2900, 2920, 2940, 2960, 2980, 3000, 3020, 3040, 3060, 3080, 3100, 3120, 3140, 3160, 3180, 3200, 3220, 3240, 3260, 3280, 3300, 3320, 3340, 3360, 3380, 3400, 3420, 3440, 3460, 3480, 3500, 3520, 3540, 3560, 3580, 3600, 3620, 3640, 3660, 3680, 3700, 3720, 3740, 3760, 3780, 3800, 3820, 3840, 3860, 3880, 3900, 3920, 3940, 3960, 3980, 4000, 4020, 4040, 4060, 4080, 4100, 4120, 4140, 4160, 4180, 4200, 4220, 4240, 4260, 4280, 4300, 4320, 4340, 4360, 4380, 4400, 4420, 4440, 4460, 4480, 4500, 4520, 4540, 4560, 4580, 4600, 4620, 4640, 4660, 4680, 4700, 4720, 4740, 4760, 4780, 4800, 4820, 4840, 4860, 4880, 4900, 4920, 4940, 4960, 4980, 5000, 5020, 5040, 5060, 5080, 5100, 5120, 5140, 5160, 5180, 5200, 5220, 5240, 5260, 5280, 5300, 5320, 5340, 5360, 5380, 5400, 5420, 5440, 5460, 5480, 5500, 5520, 5540, 5560, 5580, 5600, 5620, 5640, 5660, 5680, 5700, 5720, 5740, 5760, 5780, 5800, 5820, 5840, 5860, 5880, 5900, 5920, 5940, 5960, 5980, 6000, 6020, 6040, 6060, 6080, 6100, 6120, 6140, 6160, 6180, 6200, 6220, 6240, 6260, 6280, 6300, 6320, 6340, 6360, 6380, 6400, 6420, 6440, 6460, 6480, 6500, 6520, 6540, 6560, 6580, 6600, 6620, 6640, 6660, 6680, 6700, 6720, 6740, 6760, 6780, 6800, 6820, 6840, 6860, 6880, 6900, 6920, 6940, 6960, 6980, 7000, 7020, 7040, 7060, 7080, 7100, 7120, 7140, 7160, 7180, 7200, 7220, 7240, 7260, 7280, 7300, 7320, 7340, 7360, 7380, 7400, 7420, 7440, 7460, 7480, 7500, 7520, 7540, 7560, 7580, 7600, 7620, 7640, 7660, 7680, 7700, 7720, 7740, 7760, 7780, 7800, 7820, 7840, 7860, 7880, 7900, 7920, 7940, 7960, 7980, 8000, 8020, 8040, 8060, 8080, 8100, 8120, 8140, 8160, 8180, 8200, 8220, 8240, 8260, 8280, 8300, 8320, 8340, 8360, 8380, 8400, 8420, 8440, 8460, 8480, 8500, 8520, 8540, 8560, 8580, 8600, 8620, 8640, 8660, 8680, 8700, 8720, 8740, 8760, 8780, 8800, 8820, 8840, 8860, 8880, 8900, 8920, 8940, 8960, 8980, 9000, 9020, 9040, 9060, 9080, 9100, 9120, 9140, 9160, 9180, 9200, 9220, 9240, 9260, 9280, 9300, 9320, 9340, 9360, 9380, 9400, 9420, 9440, 9460, 9480, 9500, 9520, 9540, 9560, 9580, 9600, 9620, 9640, 9660, 9680, 9700, 9720, 9740, 9760, 9780, 9800, 9820, 9840, 9860, 9880, 9900, 9920, 9940, 9960, 9980, 10000.
- Isobars: Solid lines labeled 1000, 1020, 1040, 1060, 1080, 1100, 1120, 1140, 1160, 1180, 1200, 1220, 1240, 1260, 1280, 1300, 1320, 1340, 1360, 1380, 1400, 1420, 1440, 1460, 1480, 1500, 1520, 1540, 1560, 1580, 1600, 1620, 1640, 1660, 1680, 1700, 1720, 1740, 1760, 1780, 1800, 1820, 1840, 1860, 1880, 1900, 1920, 1940, 1960, 1980, 2000, 2020, 2040, 2060, 2080, 2100, 2120, 2140, 2160, 2180, 2200, 2220, 2240, 2260, 2280, 2300, 2320, 2340, 2360, 2380, 2400, 2420, 2440, 2460, 2480, 2500, 2520, 2540, 2560, 2580, 2600, 2620, 2640, 2660, 2680, 2700, 2720, 2740, 2760, 2780, 2800, 2820, 2840, 2860, 2880, 2900, 2920, 2940, 2960, 2980, 3000, 3020, 3040, 3060, 3080, 3100, 3120, 3140, 3160, 3180, 3200, 3220, 3240, 3260, 3280, 3300, 3320, 3340, 3360, 3380, 3400, 3420, 3440, 3460, 3480, 3500, 3520, 3540, 3560, 3580, 3600, 3620, 3640, 3660, 3680, 3700, 3720, 3740, 3760, 3780, 3800, 3820, 3840, 3860, 3880, 3900, 3920, 3940, 3960, 3980, 4000, 4020, 4040, 4060, 4080, 4100, 4120, 4140, 4160, 4180, 4200, 4220, 4240, 4260, 4280, 4300, 4320, 4340, 4360, 4380, 4400, 4420, 4440, 4460, 4480, 4500, 4520, 4540, 4560, 4580, 4600, 4620, 4640, 4660, 4680,

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

GENERAL SITUATION AT 8 A.M.

PRESSURE

Highest, 30.2 ins. and upwards, over the south of France.
Lowest, 28.6 ins. and less, in a depression lying off the west of Norway.
Gradients rather steep generally. Barometer falling on all but our extreme north and north-west coasts.

TEMPERATURE

Highest, 55° at Lorient, 54° at Jersey and Brest, 52° at Copenhagen, and 51° at Hurler's and Oroningen.
Lowest, 17° at Haparanda, 24° at Bodo, 28° at Helsingfors and Munich, 33° at Larnaca, 36° at Christiania and 37° at Rongelund.
The maximum readings yesterday were above 55° in many parts of Great Britain.

WIND

Strong from NW. or W. in the north of Scotland; moderate from W. or SW. over the greater part of England and Ireland, but SE. at Valencia.
Strong to gale from the SW. over the Netherlands and the eastern shores of the North Sea; moderate E. in the north of Scandinavia.
Moderate to strong gales from the SW. were experienced yesterday in many parts of the United Kingdom.

WEATHER

Fair at present in many localities but rainy over the Netherlands and North Germany, and showery in the north of Ireland.
Fog is reported at some of the French stations.
An Aurora was seen last night in the north of Scotland, a thunderstorm occurred at Malin H., and lightning was seen at Loughborough.

SEA

High at Helsingfors and Cape Fis Viz, and rough or rather so in most parts of our western and southern coasts.

PROBABLE CHANGES IN SYSTEM NOW PREVALENT

At Valencia the wind has shifted to the SE. since last evening, and as the barometer there is inclined to fall it is probable that a secondary disturbance is approaching our southwest coasts.

The weather in the south is therefore likely to become rough and unsettled again very shortly.

FORECASTS

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

1888.

DISTRICTS.

FORECASTS.

1	SCOTLAND NORTH	W. and NW. strong winds or gales; squally, some cold showers.
2	SCOTLAND EAST	SW. and W. winds, strong; changeable, some showers.
3	ENGLAND N.E.	SW. and W. winds, moderate or fresh; changeable, some rain.
4	ENGLAND EAST	
5	MIDLAND COUNTIES	
6	ENGLAND SOUTH	SW. winds, moderate at first, but increasing later; fair to squally and rainy.

DISTRICTS.

FORECASTS.

6	SCOTLAND WEST	Same as No. 1.
7	ENGLAND N.W.	Same as No. 2 to 4.
8	ENGLAND S.W.	W. to S. winds, increasing in force; squally, some rain.
9	IRELAND NORTH	Same as No. 2 to 4.
10	IRELAND SOUTH	
		SE. and S. winds, unsettled, some rain.

WARNINGS

The SOUTH CONE is still flying in districts 6, 7, 8, and 9, but has been lowered elsewhere.

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

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

YESTERDAY'S 2 P.M. REPORTS.

	Bar.	Dry.	Wet.	Wind.	Woa.	Sea.		Bar.	Dry.	Wet.	Wind.	Woa.	Sea.
Skudesnaes ...	29.27	43	42	SE 8	r	5	Holyhead ...	29.55	50	49	WSW 4	rq	5
Sumburgh Head ...	28.86	45	45	SW 9	r	7	Valencia ...	...	...	...	...	...	...
Stornoway ...	...	...	...	...	...	...	Scilly ...	...	...	...	...	...	...
Aberdeen ...	...	...	...	...	...	...	Jersey ...	30.06	57	51	SW 5	6	4
Shields ...	...	...	...	...	...	...	Dungeness ...	29.95	54	51	SW 6	0	5
Ardrossan ...	...	...	...	...	...	...	London ...	...	...	...	...	...	...
Malin Head ...	29.22	47	44	WSW 6	0	5	Yarmouth ...	...	...	...	...	...	...
Mullaghmore ...	...	...	...	...	...	...	Rochefort ...	30.30	51	48	S 5	0	2
Belmullet ...	29.37	49	47	WSW 7	0	*							

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

The reports for yesterday, morning, showed that pressure was still (as a whole) highest over Southern and lowest over Northern Europe, and that a new and deep depression had arrived off the North West coasts of the British Islands from the Westward. Over the Gulf of Genoa and northern parts of the Mediterranean, however, a local depression appeared to be in course of formation, and readings varied from 29.2 inches and more over Spain, South Western and Central France to below 29.9 inches in a depression lying over Ireland, and in another the centre of which lay to the North Westward of Stornoway. The wind was still mainly W.S. or S.W. over the British Islands, North Sea and the Baltic - strong, and squally, and blowing a gale at our own North Western stations; the weather in those regions was mild and dull, showery in many places, and unsettled generally. Over the northern part of the Gulf of Bothnia, however, N.E. and E. breezes had set in and the weather was fair. Temperature had risen decidedly in the north and ranged from between 50° and 64° over the greater part of the Mediterranean and from upwards of 50° over the whole of the British Islands, the Channel and north of France, to several degrees below the freezing point, both over the North of Europe and Central Spain. It was also low over the inland parts of Northern Africa. The highest individual values were 64° at Cagliari, 58° at Algiers, 57° at Brindisi, 55° at Tangier, Lorient, Sully, Liverpool and Loughborough, 52° at Belmullet, Stornoway and Naim, and 50° at the Dutch and North German stations. The lowest were 22° at Haparanda, 25° at Bodo, 26° at Archangel and Uleaborg, 27° at Madrid, 29° at Tromsø and Kuopio, 32° at Perpignan, 36° at Bismutz and Laghouat (Algeria).

Later in the day pressure began to recover in the North of the British Islands, but fell fast in the south, and a secondary disturbance advanced towards the mouth of the Channel causing strong gales on our southern coasts and rain.

SUMMARY OF CHANGES IN THE WEATHER OVER THE BRITISH ISLANDS AND THEIR NEIGHBOURHOOD FROM THE 18th TO THE 24th NOVEMBER 1888.

In the course of this week there has been a renewal of the stormy conditions which prevailed so constantly over the United Kingdom during the previous week, but with this modification that the winds reported have been more W.S. in direction, and the gales have spread more frequently to our eastern stations than they did before the 18th. Temperature has been high for the time of year over Ireland and England, but in Scotland there have been two occasions (viz. on Tuesday and Friday) when a decided fall took place - only to be followed by a rapid recovery, about two days after. Much rain has fallen in the West and North, very little in the East and South, sleet and hail have prevailed in Scotland and the North of Ireland at times, thunder and lightning occasionally, at some of the northern stations.

Three large depressions have passed over the northern parts of our area - viz. - one on the 19th, another on the 20th and 21st (when the barometer fell to below 29.4 inches) over Sweden and Norway, and a third on the 22nd, 23rd; small secondary systems have been observed from time to time over the northern parts of the Kingdom.

Over the Channel and the Bay of Biscay the distribution of pressure has been continuously anticyclonic, and the barometer has varied in height from 30.2 inches to 30.6 inches.

EXPLANATION OF COLUMNS GIVEN ON PAGE 1.

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

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

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

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

DAILY WEATHER REPORT.

for *Tuesday, 27th November. 1888.*
Issued by the Meteorological Office, 116, Victoria Street, London. R. H. SCOTT, Secretary.

Issued by the Meteorological Office, No. 1, Victoria Road, London, W. 1, England.																	
+ YESTERDAY EVENING.																	
8 A.M. TO DAY.																	
PAST 24 HOURS.																	
STATIONS.	Barometer at 32° F. and Sea Level.	Temp. in Shade.	WIND.		Weather.	BAROMETER.		SHADE TEMP.			WIND.		Weather.	Sea. (0 to 9.)	SHADE TEMP.		
			Dir.	Force. (0 to 12.)		Reading at 32° F. and Sea Level.	Difference from 8 a.m. yesterday.	Dry.	Wet.	Difference from 8 a.m. yesterday.	Dir.	Force. (0 to 12.)			Max.	Min.	Amount of Rainfall.
SCANDINAVIA.																	
Haparanda ..																	
Hernösand ...																	
Stockholm ...																	
Wisby ...																	
Bodö ...	28.67	21	ENE	2	bc	28.75	+0.07	28	26	+14	msw	8	3	5	?	18	-
Christiansund...	28.44	39	ENE	6	r	29.18	+0.58	31	28	-5	NW	8	C	5	39	28	-
Skudesnaes ...	28.93	42	WSW	10	r	29.42	+0.50	37	32	-8	NW	2	0	5	45	34	-
Christiania Fjord (Færdar)																	
Skagen (The Scaw)	29.01	44	NW	7	bc	29.31	+0.15	41	36	-14	NW	6	bc	3	46	37	0.08
Fanö ...	29.43	44	WSW	8	c	29.59	+0.21	40	39	-5	WSW	2	b	*	46	41	0.12
Sumburgh Head																	
Stornoway ..	29.38	45	N	4	bc	29.31	+0.28	36	36	-3	SE	5	C	4	40	27	-
Wick ...	29.30	31	NW	2	b	29.42	+0.46	29	28	-10	W	1	b	2	40	26	0.02
Nairn ...	29.34	37	W	1	b	29.39	+0.36	27	25	-13	W	0	b	1	41	25	-
Aberdeen...	29.39	36	SW	3	bc	29.45	+0.35	30	29	-9	SE	1	0	4	42	27	-
Leith ...	29.40	36	W	3	c	29.36	+0.16	35	34	-6	SSE	1	cm	*	44	30	0.21
Shields ...	29.43	43	SW	2	b	29.35	+0.03	42	41	0	ESE	2	om	2	45	37	-
Spurn Head ...	29.55	42	SW	4	b	29.40	-0.08	45	44	+1	SSE	4	r	3	45	39	0.07
York ...	29.52	41	SSW	2	0	29.37	-0.07	40	39	-2	E	2	r	*	48	36	0.02
Loughborough	29.58	43	WSW	2	0	29.33	-0.22	43	43	0	SE	2	rg	*	48	38	0.24
BRITISH ISLANDS.																	
Ardrossan ...	29.41	42	WNW	3	c	29.28	+0.01	36	36	-6	NNE	3	of	2	42	34	0.21
Malin Head ...	29.39	39	S	3	b	29.23	-0.08	35	35	-6	S	3	bc	3	41	35	0.24
Mullaghmore ...	29.39	42	SSE	4	om	29.22	-0.20	39	38	-4	E	5	ag	4	47	36	0.05
Belmullet ...	29.34	41	S	4	0	29.20	-0.26	38	37	-6	E	1	b	*	47	36	0.02
Donaghadee ...	29.47	35	SSW	3	b	29.24	-0.16	35	34	-2	N	2	C	1	44	32	0.03
Barrow-in-Furness	29.56	44	WNW	4	0	29.27	-0.17	41	40	-3	NE	3	r	*	46	39	0.14
Liverpool (Bidston)	29.52	41	S	2	0	29.23	-0.37	41	40	0	ESE	3	r	4	46	37	0.26
Holyhead ...	29.49	42	SSW	3	r	29.17	-0.34	43	42	0	E	5	rggm	4	48	40	0.31
Parsonstown ...	29.44	40	SE	1	0	29.17	-0.39	36	35	+3	N	1	0	*	41	32	0.01
Valencia ...	29.40	46	SW	5	0	29.17	-0.38	42	40	0	NNE	2	0	1	46	39	0.42
Roche's Point...	29.47	45	W	1	bl	29.01	-0.59	38	35	0	NNE	7	r	5	46	36	1.15
Pembroke ...	29.51	48	WSW	5	bc	29.05	-0.57	48	48	+4	S	5	cqf	4	51	42	0.87
Scilly ...	29.62	51	WSW	7	cl	29.17	-0.52	50	47	+3	SW	7	cq	7	53	45	0.29
Prawle Point ...	29.67	51	SSW	6	bc	29.24	-0.45	52	52	+5	SSW	7	r	6	53	44	0.10
Jersey ...	29.78	54	WSW	5	cu	29.42	-0.34	55	54	+1	SW	7	orm	5	55	49	0.13
Hurst Castle ...	29.68	48	W	5	c	29.36	-0.28	58	53	+2	SSW	7	cp	6	54	45	0.30
Dungeness ...	29.61	50	SW	4	bc	29.49	-0.09	51	50	-1	SSW	6	r	4	55	49	0.05
London ...	29.66	46	WSW	3	0	29.39	-0.20	51	50	+5	SE	3	or	*	51	45	0.10
Oxford ...	29.63	44	SW	3	b	29.31	-0.30	50	48	+7	S	5	rg	*	50	41	0.20
Cambridge ...	29.63	43	SW	1	0	29.37	-0.21	48	46	+4	SSE	2	r	*	50	37	0.11
Yarmouth ...	29.62	44	WSW	2	bc	29.48	-0.07	47	46	+2	S	5	cgr	4	47	40	0.12
Guxhaven ...	29.51	41	W	4	0	29.70	+0.12	41	40	-5	SW	3	b	*	?	40	0.04
Berlin ...	29.71	48	WSW	4	0	29.81	+0.00	48	44	+2	W	5	bc	*	50	45	-
Wiesbaden ...	*	*	*	*	*	29.89	-0.08	46	45	+2	SW	1	0	*	48	41	0.04
Munich ...	30.05	44	W	2	b	30.04	-0.03	37	34	+9	SE	4	C	*	?	36	-
FRANCE & NETHERLANDS.																	
The Helder ...	29.65	46	SW	3	E	29.64	+0.13	44	44	-4	S	1	b	1	48	43	0.04
Brussels ...	*	*	*	*	*	29.69	-0.04	48	46	+2	ESE	4	0	*	52	46	0.28
Cape Gris Nez...																	
Paris ...	29.91	48	SSW	4	bc	29.73	-0.18	49	47	+8	S	3	0	*	53	?	-
Brest ...	29.54	53	W	8	0	?	?	53	51	-1	SW	11	r	8	57	?	0.20
Lorient ...	29.86	56	WSW	3	bc	29.43	-0.41	58	55	+3	WSW	9	0	7	?	52	0.04
Rochefort ...	30.05	36	WSW	7	C	29.77	-0.31	49	47	0	SSE	7	or	3	59	45	0.16
Belfort ...	29.46	43	W	1	C	29.85	-0.23	44	41	+16	W	1	b	*	51	28	-
Lyons ...	30.15	45	S	3	b	29.94	-0.08	45	42	+2	SE	3	b	*	54	37	-
Nice ...	30.20	40	SSW	1	0	30.17	-0.03	48	44	+2	NE	5	C	1	54	45	-
Perpignan ...	30.18	50	NNE	1	0	30.01	-0.25	43	42	-3	SW	1	0	*	54	41	-
Blarritz ...	30.08	57	NNE	4	b	29.82	-0.29	58	47	+11	SW	7	b	5	68	?	-
PENINSULA.																	
Corunna ...	*	*	*	*	*												
Lisbon ...	30.19	56	S	1	0	29.97	-0.36	60	58	+13	SSW	7	0	5	?	?	-

WEATHER CHARTS

for 8 a.m. on Tuesday, 27th November.

1888.

BAROMETER, WIND & SEA.

(Explanation of Map)

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

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

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

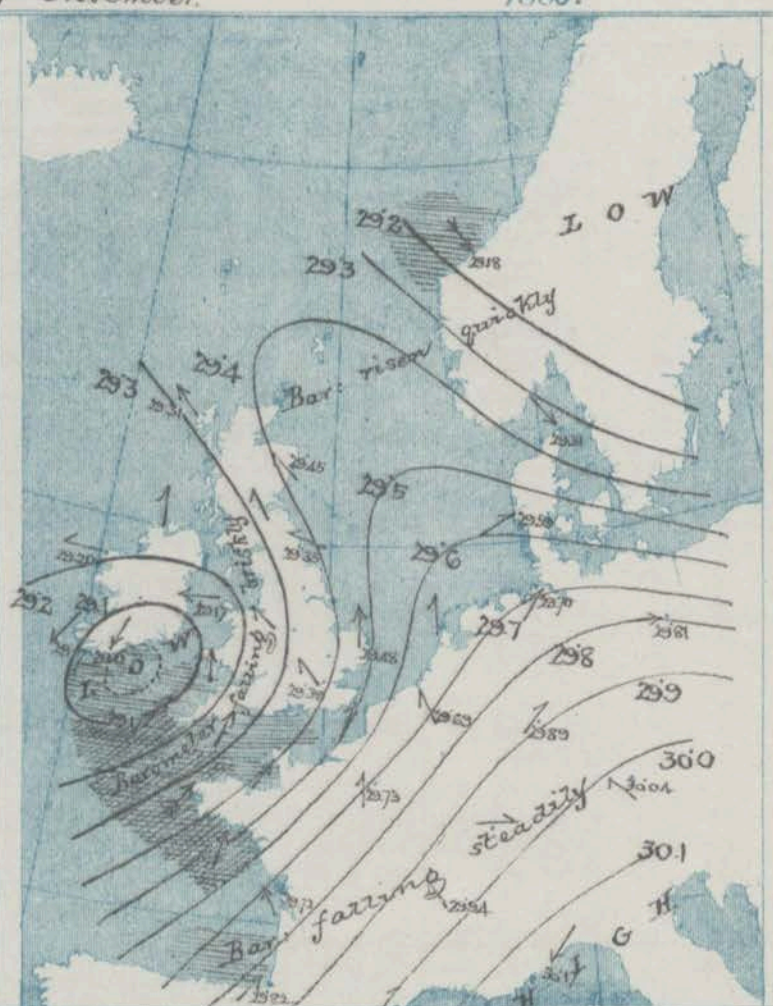
Sea Disturbance — where considerable is shown thus.

— Rough — High

MEAN HEIGHT of the BAROMETER

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

STATIONS.	MEAN READINGS.
	in.
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	29.898
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	38.7	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	42.7	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
Scilly	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	37.9	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 1866 — 85.



GENERAL SITUATION AT 8 A.M.

PRESSURE

Highest, 30.1 in. and upwards over the southeast of France.
 Lowest, 29.0 in. and less, in a depression lying off the mouth of St. George's Channel. The Scandinavian reports are nearly all rising.
 Gradient steep over the Channel and Bay of Biscay, but moderate or slight elsewhere.
 Barometer rising on our extreme southwestern and northern coasts, but falling elsewhere, — quickly over England.

TEMPERATURE

Highest, 60° at Dublin, 58° at Lorient and Brest, 55° at Jersey, 53° at Hurst Castle and Port, and 51° at Broule Point.
 Lowest, 27° at Kilm, 23° at Wick, 30° at Aberdeen, 31° at Christiansund, and 33° at Leth. Malin Head and Donaghadee.
 Sharp frost was experienced last night in the north of Scotland.

WIND

Strong to a gale from S or SW over the English Channel and the Bay of Biscay.
 Slight to fresh from the SE^{ly} on our north and east coasts; moderate from NE in the northwest.
 Strong to a gale from the NW^{ly} on the Norwegian coasts.

WEATHER

Raining over the greater part of England, as well as in the south of Ireland and north of France.
 Fine in Denmark, Scotland, the north of Ireland and the south of France.
 Since yesterday heavy rain has fallen at some of the western stations, and thunder and lightning have occurred in the south.

SEA

High at the mouth of the Channel, and rough in the southwest and south generally.

PROBABLE CHANGES IN SYSTEM NOW PREVALENT

The barometer is now inclined to rise in the extreme southwest, and the depression in that neighbourhood is apparently travelling northeastwards. Strong SW^{ly} winds are likely to continue in the south, and freshening SE^{ly} breezes are probable in the north, with unsettled weather in all districts.

The brisk fall of barometer which has set in at Dublin last evening seems to indicate the approach of further depressions from the southwestward.

FORECASTS

For the 24 hours ending at NOON on 28th Nov^r 1888.

DISTRICTS.

FORECASTS.

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

0 and 1 { E^{ly} and SE^{ly} winds, freshening; fair to unsettled, and some sleet or snow.
 2 { SE^{ly} winds, freshening; unsettled, some rain.
 3 and 4 { S^{ly} and SW^{ly} winds, strong; squally and rainy at first, some improvement later.
 5 { S^{ly} and SW^{ly} winds, strong; squally and rainy at first, some improvement later.

DISTRICTS.

FORECASTS.

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

6 { E^{ly} and NE^{ly} winds, freshening; unsettled, some cold rain or sleet.
 7 { E^{ly} and NE^{ly} winds, freshening; unsettled, some cold rain or sleet.
 8 { SW^{ly} to W^{ly} winds, strong; squally, stormy.
 9 { NE^{ly} winds, freshening considerably; unsettled, some cold showers.
 10 { N^{ly} winds, fresh or strong; unsettled, some showers.

WARNINGS

NONE ISSUED.

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

YESTERDAY'S 2 P.M. REPORTS.

	Bar.	Dry.	Wet.	Wind.	Wca.	Sea.		Bar.	Dry.	Wet.	Wind.	Wca.	Sea.
Skudesnaes ...	28.87	44	40	WSW 9	0	8	Holyhead ...	29.55	45	40	SW 4	e	4
Sumburgh Head							Valencia ...	29.45	42	41	SW 2	r	3
Stornoway ...	29.28	40	40	NW 5	30	14	Sailly ...	29.62	53	48	WSW 7	e q	6
Aberdeen ...	29.26	41	36	WSW 4	60	9	Jersey ...	29.78	55	51	SSW 5	0	4
Shields ...	29.38	45	40	WSW 4	6	2	Dungeness ...	29.67	52	48	W 5	60	5
Ardrossan ...	29.38	40	40	WSW 4	7	8	London ...	29.68	49	45	W 3	c	*
Malin Head ...	29.41	39	39	NW 5	0	4	Yarmouth ...	29.60	46	44	W 4	6	3
Mullaghmore ...	29.44	47	42	SW 3	6	3	Rochefort ...	30.06	57	56	WSW 8	0	3
Belmullet ...	29.41	44	44	S 3	6	*							

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

The reports for yesterday morning showed that the high-pressure area recently prevalent over France and the Bay of Biscay had moved southwards, while a large and rather deep depression lay over Norway and the adjacent parts of the Atlantic. Readings at 8 am varied from between 30.1 ins. and 30.3 ins. over Southern Europe and the Mediterranean to about 29.0 ins. over the extreme north of Scotland, and to rather below 28.6 ins. at Christiania. SW^{ly} and W^{ly} winds were still prevalent over Western Europe, and E^{ly} winds over Finland, Lapland, and the northern part of Sweden and Norway. They were of less force than those recently experienced except in the Channel and south of England, where strong gales had prevailed during the night. The weather was very unsettled and showers prevailed in many places. Temperature had fallen over the British Isles generally, and varied from 50° and more over the Mediterranean and west of France, and from between 40° and 50° over the British Isles to near the freezing point over Central Algeria to rather below it over Central Spain and some part of France, and to many degrees below it over Northern Europe. The highest individual values were 62° at Bilbao, 57° at Angoulême, Poitiers, Ushant, and Boulogne, and 50° at Dunkirk and Scilly; the lowest were 36° at Laghouat (Algeria), 30° at Madrid, 28° at Clermont and Belfort, 28° at Helsingfors, 27° at Archangel, 24° at Rode, 23° at Kiofio, 17° at Skaranda, 15° at Uleaborg.

Later on pressure rose considerably in Scotland, but fell over the southern parts of our area, and the weather became still more unsettled generally.

EXPLANATION OF COLUMNS GIVEN ON PAGE 1.

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

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

† The evening observations are taken at 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).

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for Wednesday 28th Nov^r 1884.
Issued by the Meteorological Office, 116, Victoria Street, London. R. H. SCOTT, Secretary.

		† YESTERDAY EVENING.					8 A.M. TO DAY.										PAST 24 HOURS		
STATIONS.		Barometer at 32° F. and Sea Level.	Temp. in Shade.	WIND.		Weather.	BAROMETER.		SHADE TEMP.			WIND.		Weather.	Sea. (0 to 9.)	SHADE TEMP.			
				Dir.	Force. (0 to 12.)		Reading at 32° F. and Sea Level.	Difference from 8 a.m. yesterday.	Dry.	Wet.	Difference from 8 a.m. yesterday.	Dir.	Force. (0 to 12.)			Max.	Min.	Amount of Rainfall.	
SCANDINAVIA.	Haparanda ..														*				
	Hernösand ...														*				
	Stockholm ...														*				
	Wisby														*				
	Bodö	29.71	29	N	8	0	29.26	+ .51	28	26	0	WNW	4	5	4	32	23	—	
	Christiansund...	29.41	31	WNW	4	bc	29.38	+ .20	29	26	—	2	ESE	3	c	4	32	27	0.16
	Skudesnaes ...	29.36	36	SE	2	0	29.20	— .22	35	32	—	2	ENE	4	0	4	37	24	—
	Christiania Fjord (Færdor)	29.51	36	Z	0	b	29.19	?	?	31	?	NNE	1	c	1	41	27	—	
	Skagen (The Scaw)	29.42	39	S	3	0	29.11	— .20	43	42	+	1	SW	5	0	2	42	34	0.20
	Fanö	29.22	45	SW	6	0	29.23	— .36	45	44	+	5	SW	6	b	*	46	40	0.51
BRITISH ISLANDS.	Sumburgh Head	29.36	32	NNE	2	bc	29.43	+ .04	33	31	+	1	NNE	3	0	4	36	30	0.03
	Stornoway ...	29.23	39	SE	6	c	29.42	+ .11	37	37	+	1	E	4	0	4	40	34	0.04
	Wick	29.24	37	NE	4	0	29.45	+ .03	38	34	+	9	N	2	0	2	39	28	0.02
	Nairn	29.16	40	E	3	c	29.42	+ .03	36	35	+	9	E	1	0	2	40	27	0.04
	Aberdeen...	29.12	38	ENE	9	orsqu	29.41	— .04	35	34	+	5	WNW	4	c	y	42	30	0.15
	Leith	28.96	39	E	6	r	29.40	+ .04	40	37	+	5	NNW	1	cm	*	42	34	0.60
	Shields	28.87	41	Z	0	c	29.42	+ .07	36	35	—	6	WSW	2	c	3	46	35	0.60
	Spurn Head ...	28.99	47	SW	8	bc	29.39	— .01	39	37	—	6	W	4	b	4	49	37	0.33
	York	28.90	46	S	4	r	29.40	+ .08	34	33	—	6	NW	1	b	*	51	39	0.29
	Loughborough	29.12	45	W	7	c	29.44	+ .11	31	30	—	12	Z	0	bm	*	52	30	0.32
GERMANY.	Ardrossan ...	29.03	39	NNE	1	r	29.44	+ .16	34	34	—	2	NE	1	bf	1	39	33	0.12
	Malin Head ...	29.13	43	N	4	bc	29.39	+ .16	35	35	—	0	SSE	3	b	2	43	35	0.11
	Mullaghmore...	29.19	41	N	1	bc	29.36	+ .14	37	36	—	2	E	4	bc	3	43	38	0.03
	Belmullet ...	29.22	37	N	2	b	29.35	+ .15	35	35	—	3	E	1	b	*	47	34	—
	Dunaghadee ...	29.08	43	ENE	4	c	29.40	+ .16	41	40	+	6	E	3	bc	1	45	35	0.29
	Barrow-in-Furness	28.83	42	SW	7	0	29.41	+ .44	34	33	—	7	NNE	3	b	*	47	33	0.65
	Liverpool (Bidston)	28.96	41	W	9	r	29.42	+ .19	36	35	—	5	SE	1	b	3	50	36	0.23
	Holyhead ...	29.13	42	WNW	6	cy	29.39	+ .22	37	36	—	6	SSE	1	bm	2	49	36	0.55
	Parsonstown ...	29.26	35	Z	0	b	29.36	+ .19	31	30	—	5	Z	0	c	*	46	26	—
	Valencia	29.24	40	E	1	om	29.19	+ .02	44	41	+	2	ENE	5	op	4	48	36	0.17
FRANCE & NETHERLANDS.	Roche's Point...	29.24	42	W	1	b	29.25	+ .24	45	44	+	7	SE	5	p	4	46	35	0.40
	Pembroke ...	29.28	43	WNW	4	r	29.34	+ .29	40	40	—	8	E	3	c	3	50	38	0.26
	Scilly	29.31	45	WSW	5	cy	29.30	+ .13	49	47	—	1	SSW	4	0	6	57	44	0.22
	Prawle Point ...	29.36	49	SW	6	c	29.38	+ .14	47	45	—	5	SSE	5	ou	4	52	42	0.24
	Jersey	29.49	51	WSW	6	bc	29.46	+ .04	49	47	—	6	SSE	4	ofm	4	56	48	0.21
	Hurst Castle ...	29.38	50	WSW	9	bc	29.44	+ .08	47	45	—	6	W	2	c	4	56	44	0.32
	Dungeness ...	29.36	55	WSW	7	cy	29.45	— .04	49	46	—	2	WSW	4	c	4	55	46	0.17
	London	29.34	47	WSW	4	bc	29.45	+ .06	39	38	—	12	S	1	bc	*	54	37	0.23
	Oxford	29.33	43	SW	4	b	29.45	+ .14	33	32	—	17	SSW	1	bf	*	53	33	0.03
	Cambridge ...	29.30	44	SSW	4	b	29.47	+ .10	33	32	—	15	S	1	b	*	53	31	0.06
PENINSULA.	Yarmouth ...	29.22	49	SW	6	bc	29.42	— .06	38	37	—	9	W	2	bm	3	51	36	0.18
	Cuxhaven ...	29.50	44	SSW	6	r	29.42	— .28	46	46	+	5	SW	4	c	*	49	41	0.02
	Berlin	29.65	47	SSE	1	0	29.62	— .19	46	44	—	2	SSW	1	c	*	50	45	—
	Wiesbaden ...	*	*	*	*	*	29.62	— .27	47	45	+	1	SW	1	0	*	50	48	0.04
	Munich	29.82	39	SW	2	b	29.75	— .29	34	33	—	3	SE	4	c	*	54	34	—
	The Helder ...	29.31	45	SW	7	c	29.41	— .23	46	45	+	2	SW	4	c	3	50	?	0.08
	Brussels	*	*	*	*	*	29.54	— .15	46	44	—	2	SSW	3	0	*	53	46	0.04
	Cape Gris Nez...	29.39	50	WSW	9	0	29.47	— .13	46	45	—	5	SW	5	0	5	55	45	0.28
	Paris	29.64	50	SW	4	0	29.60	— .13	44	43	—	5	S	3	0	*	55	43	0.48
	Brest	29.47	52	SW	11	0	29.45	?	38	46	—	3	SW	8	0	6	57	39	0.43

WEATHER CHARTS

for 8 a.m. on Wednesday, 28th November, 1888.

BAROMETER, WIND & SEA.

(Explanation of Map)

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

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

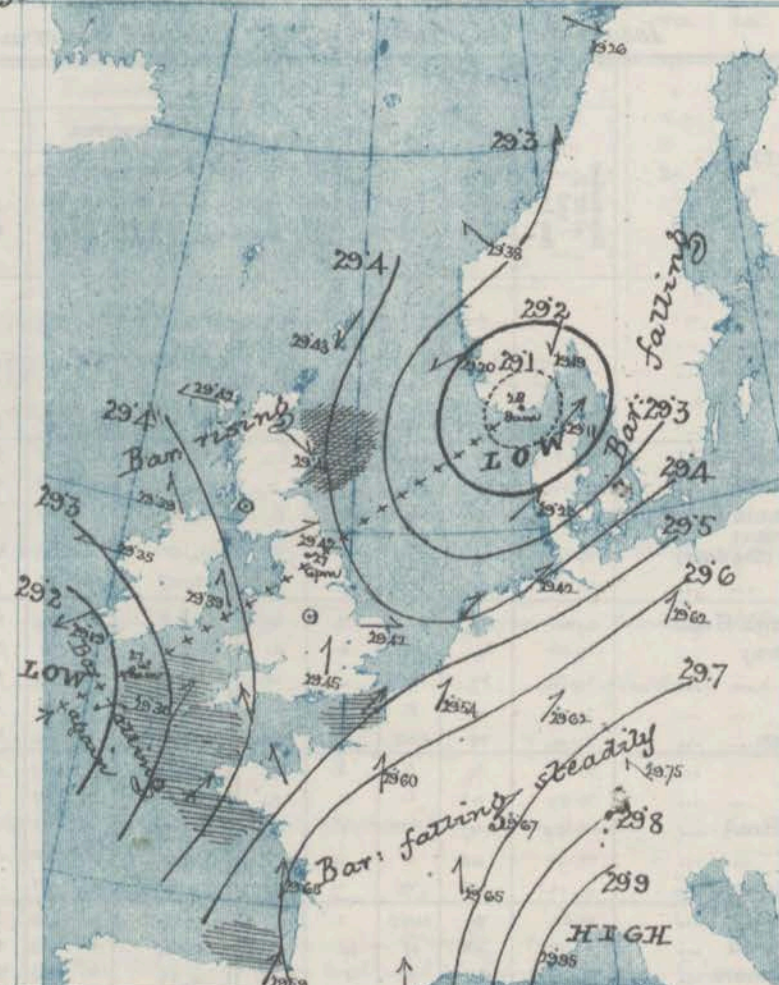
Sea Disturbance — where considerable is shown thus.

■ = Rough ■ = High

MEAN HEIGHT of the BAROMETER

at 8 a.m. for the month of 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	29.898
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.

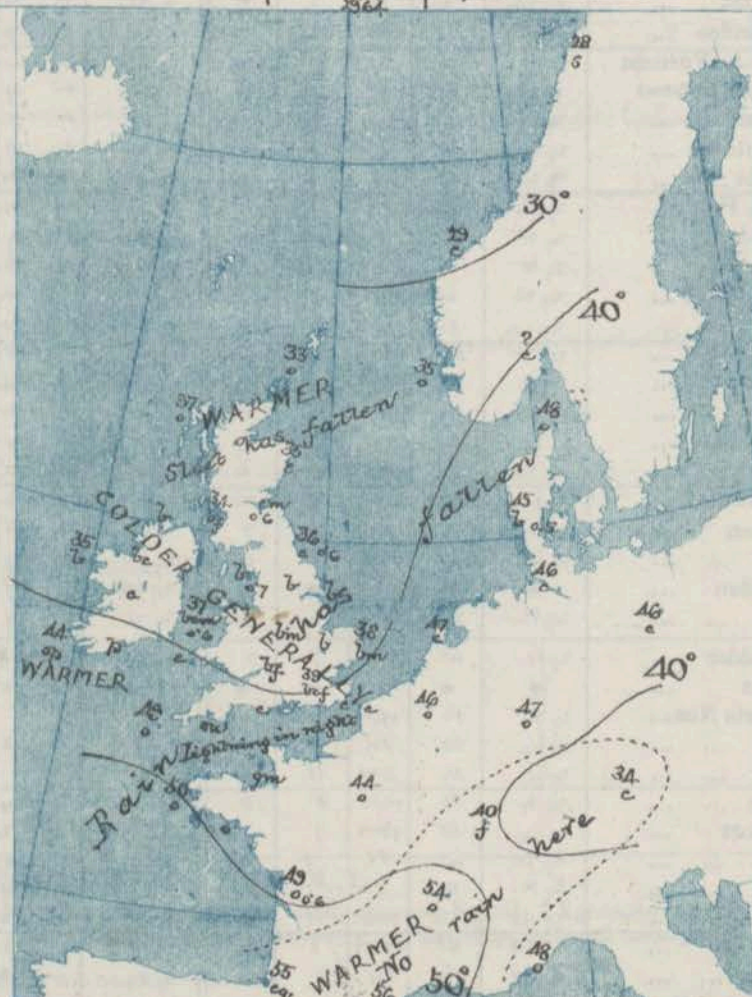
Rainfall — A dotted line separates the districts in which rain has fallen from those where there has been none. Falls of 0.5 in. or more, are quoted in figures.

MEANS OF TEMPERATURE IN SHADE.

AND RAINFALL.
 for the month of November.

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	38.9	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	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
Scilly	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	37.9	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 10 years 1866—85.



GENERAL SITUATION AT 8 A.M.

PRESSURE	Highest 29.9 inches and upwards in the Southeast of France. Lowest 29.1 inches and less in a depression lying off the South of Norway, 29.2 in and less off the S.W. of Ireland. Gradient moderate or slight generally. Barometer falling at our Southwestern and the French stations, as well as on the eastern shores of the North Sea, but rising on our north and east coasts.
TEMPERATURE	Highest 56° at Perpignan, 55° at Biarritz, 54° at Lyons, 50° at Brest and 49° at Tilly, Jersey, Dingemess, Lorient and Rochefort. Lowest 28° at Bodø, 29° at Christianound, 31° at Loughborough and Parsonstown and 33° at Lumburg Head, Oxford and Cambridge. Frost occurred last night over the inland parts of our Islands.
WIND	Fresh from S. or S.E. on our southwest coasts, strong from the S.W. in the west of France. Moderate from E. or N.E. in the west of Norway, and also on our own northwest coasts. Light or moderate from W. or N.W. on the east coasts of Great Britain; fresh from S.W. in Denmark. Fresh S.W. gales occurred yesterday over the greater part of England, and a strong S.W. gale in the east of Scotland.
WEATHER	Fine at most of the English stations, and also in the north of Ireland, but foggy in places. Cloudy or overcast elsewhere, with showers on our extreme S.W. coasts, rain at Lisbon and snow at Bodø. Rain fell generally yesterday the largest amounts being 0.7 inch at Barrow-in-Furness, and 0.6 inch at Leith, Shields and Holyhead. Lightning was seen in the south of England at night.
SEA	Sea high at Aberdeen, and rough in the Bay of Biscay, and at the mouth of the Channel, but moderate to smooth elsewhere.

PROBABLE CHANGES IN SYSTEM NOW PREVALENT

The new disturbance which is beginning to appear in the extreme southwest will probably advance over our Islands and occasion further unsettled weather in all districts.

A considerable increase of wind is likely to take place, — from the eastward on our northern coasts and from south and southwest in the south.

FORECASTS

for the 24 hours ending at NOON on 29th November 1888.

DISTRICTS.	FORECASTS.	DISTRICTS.	FORECASTS.
↑ 0 SCOTLAND NORTH	N th winds light, to E ^{ly} fresh or strong; fair to unsettled and some sleet showers.	↑ 6 SCOTLAND WEST	S th and E ^{ly} winds, increasing in force; fair to unsettled, with some rain or sleet.
↑ 1 SCOTLAND EAST		↑ 7 ENGLAND N.W.	
↑ 2 ENGLAND N.E.	W th winds light, to S.E. ^{ly} strong; fair to unsettled and some rain.	↑ 8 ENGLAND S.W.	S th to S.W. th or W. th strong winds or gales; squally rainy.
↑ 3 ENGLAND EAST	S th winds, increasing to a gale; fair to squally and rainy.	↑ 9 IRELAND NORTH	E ^{ly} to N.E. ^{ly} winds, increasing in force; fair to squally and showery.
↑ 4 MIDLAND COUNTIES		↑ 10 IRELAND SOUTH	E ^{ly} to S. th winds, strong; squally, some rain.
↑ 5 ENGLAND SOUTH			

WARNINGS

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

YESTERDAY'S 2 P.M. REPORTS.

	Bar.	Dry.	Wet.	Wind.	Wca.	Sea.		Bar.	Dry.	Wet.	Wind.	Wca.	Sea.
Skudesnaes ...							Holyhead ...	28.85	45	44	SW 4	rgn	4
Sumburgh Head ...	29.41	82	30	N 1	bc	3	Valencia ...	29.22	44	41	NNW 3	ov	2
Stornoway ...	29.24	39	38	SE 5	c	4	Scilly ...	29.28	49	45	W 8	cq	7
Aberdeen ...	29.25	42	39	E 8	equp	7	Jersey ...	29.43	54	49	W 7	c	6
Shields ...	28.95	45	44	ESE 7	v	5	Dungeness ...	29.30	54	51	WSW 6	c	5
Ardrossan ...	29.06	39	39	NNE 3	o	2	London ...	29.24	54	50	SW 5	of q	4
Malin Head ...	29.12	42	40	NE 4	o	3	Yarmouth ...	29.21	51	50	SSW 5	og	4
Mullaghmore ...	29.15	42	40	N 3	c	2	Rochefort ...	29.71	58	55	SW 7	v	3
Belmullet ...	29.15	43	41	NNW 2	c	*							

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

The reports for yesterday morning showed a further movement, in a southeasterly direction, of the high pressure recently prevalent over France, and that readings varied from between 30.1 inches and 30.2 inches over the southern and eastern parts of the Mediterranean, to rather below 28.7 inches in a depression lying over Lapland and to rather below 29.0 inches in another such system which had appeared off the southeast coast of Ireland and was moving quickly in a N.E. direction. The barometer was falling over Europe generally, but especially on the Atlantic coasts. The wind was again chiefly S. to W. in direction and was blowing a gale over France and the south of England, but varying N.W. and E. winds were beginning to be felt still more generally in the extreme north and west, than of late. The weather was very unsettled except over Eastern and Southern Europe, and rain had extended to the southern and eastern parts of our Islands. Temperature had risen in many parts of Western and Northern Europe, fallen in the South-East. There were two centres of frost — one over Northern Russia, another over Austria-Hungary. The lowest readings reported were (1) 21° at Kapananda, 22° at Uleaborg, 23° at Ottchangel, 27° at Kermosand, 28° at Bodö; (2) 24° at Hermanstadt, 31° at Buda-Pesth and Vienna; these two regions were separated by a broad band in which readings varied from 35° to 40° and more. The highest readings were 63° at Bilbao, 59° at Algiers, 58° at Biarritz and Lorient, 57° at Brindisi, 55° at Livorno and San Fernando, 54° at Barcelona and 51 in London.

During the day the depression over the west of our Islands passed northeastwards, strong E. gales were felt in the north, with much rain, while at our southern stations the wind subsided and veered Westwards.

EXPLANATION OF COLUMNS GIVEN ON PAGE 1.

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

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

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

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

DAILY WEATHER REPORT.

for *Thursday, 29th November 1888.*
Issued by the Meteorological Office, 116, Victoria Street, London. R. H. SCOTT, Secretary.

		† YESTERDAY EVENING.					8 A.M. TO DAY.										PAST 24 HOURS.		
STATIONS.		Barometer at 32° F. and Sea Level.	Temp. in Shade.	WIND.		Weather.	BAROMETER.		SHADE TEMP.			WIND.		Weather.	Sea (0 to 9.)	SHADE TEMP.		Amount of Rainfall.	
				Dir.	Force, (0 to 12.)		Reading at 32° F. and Sea Level.	Difference from 8 a.m. yesterday.	Dry.	Wet.	Difference from 8 a.m. yesterday.	Dir.	Force, (0 to 12.)			Max.	Min.		
SCANDINAVIA.	Haparanda ..	29.43	22	Z	0	b	29.56		28	27		W	2	bc	*	?	1	-	
	Hernösand ...	29.64	4	Z	0	b	29.56		10	9		NE	2	0	*	23	8	-	
	Stockholm ...	29.39	37	Z	0	0	29.34		31	30		W	4	0	*	39	27	0.12	
	Wisby ...	29.39	44	W	4	b	29.49		36	33		W	6	0	*	45	32	-	
	Bodö ...	29.37	32	WSW	6	0	29.49	+ .13	29	26	+ 1	SSW	4	bc	2	36	25	-	
	Christiansund...	29.41	30	SE	4	S	29.58	+ .20	31	30	+ 2	WSW	4	c	4	32	28	-	
	Skudesnaes ...	29.49	31	NNE	2	b	29.67	+ .47	33	32	- 2	E	2	0	3	36	27	-	
	Christiania Fjord (Færdø)	29.32	30	N	7	bc	29.63	+ .44	26	24	?	NW	2	b	1	32	23	-	
	Skagen (The Sea)	29.32	38	NE	5	0	29.62	+ .51	31	28	- 12	N	1	bc	1	45	30	-	
	Fanö ...	29.50	38	NW	3	0	29.67	+ .44	31	31	- 14	Z	0	b	*	46	30	-	
BRITISH ISLANDS.	Sumburgh Head	29.57	80	NNE	1	b	29.66	+ .23	31	30	- 2	Z	0	c	3	38	27	-	
	Stornoway ...	29.54	35	NE	4	b	29.56	+ .14	35	35	- 2	E	4	bc	3	40	32	-	
	Wick ...	29.63	28	N	2	0	29.63	+ .18	38	35	0	E	1	0	1	38	23	-	
	Nairn ...	29.56	38	Z	0	0	29.60	+ .18	30	30	- 6	Z	0	c	1	39	26	-	
	Aberdeen...	29.60	38	WNW	2	b	29.64	+ .23	38	34	+ 3	ESE	3	0	5	39	31	-	
	Leith ...	29.54	40	N	2	c	29.53	+ .13	39	36	- 1	SE	2	om	*	44	32	-	
	Shields ...	29.53	43	E	1	c	29.52	+ .10	41	39	+ 5	E	5	0	4	43	35	0.01	
	Spurn Head ...	29.51	44	ENE	3	0	29.45	+ .06	47	45	+ 8	ESE	6	0	5	47	38	0.03	
	York ...	29.53	37	NW	1	b	29.44	+ .04	43	42	+ 9	E	2	m	*	43	33	-	
	Loughborough	29.50	38	E	1	r	29.38	- .06	43	43	+ 12	ESE	2	og	*	44	30	0.05	
GERMANY.	Ardrossan ...	29.52	35	NE	1	b	29.47	+ .03	38	36	+ 4	E	3	0	2	39	33	-	
	Malin Head ...	29.42	41	SE	5	bm	29.31	- .08	41	40	+ 6	E	6	0	6	41	32	-	
	Mullaghmore ...	29.36	42	E	6	c	29.25	- .11	43	41	+ 6	ESE	6	ogm	5	43	35	0.02	
	Belmullet ...	29.33	42	E	4	c	29.23	- .12	43	42	+ 8	E	4	0	*	43	34	0.01	
	Donaghadee ...	29.46	43	E	4	c	29.35	- .05	42	40	+ 1	E	7	c	5	43	38	0.01	
	Barrow-in-Furness	29.47	38	NE	3	b	29.36	- .05	40	38	+ 6	NE	4	0	*	41	35	-	
	Liverpool (Bidston)	29.46	40	NNE	3	0	29.30	- .12	43	41	+ 7	ESE	6	0	3	42	36	0.03	
	Holyhead ...	29.40	42	ESE	3	rg	29.22	- .17	44	43	+ 7	E	8	mrgy	6	44	36	0.01	
	Parsonstown ...	29.29	40	Z	0	0	29.12	- .24	42	40	+ 11	Z	0	r	*	42	30	0.08	
	Valencia ...	29.14	47	SSW	5	0	29.12	- .07	43	42	- 1	NNE	2	0	2	47	38	0.09	
FRANCE & NETHERLANDS.	Roche's Point...	29.23	48	SSW	4	b	28.88	- .37	42	42	- 3	NW	2	r	4	50	40	1.45	
	Pembroke ...	29.32	43	E	4	c	29.04	- .30	48	46	+ 8	SE	8	ry	6	48	40	0.63	
	Scilly ...	29.25	44	SSE	2	0	29.05	- .25	47	45	- 2	W	5	op	5	53	44	0.36	
	Prawle Point ...	29.37	50	S	5	6	29.18	- .20	49	46	+ 2	SSE	5	cu	4	50	44	0.18	
	Jersey ...	29.42	51	SSE	4	bcu	29.25	- .21	49	47	0	SE	6	cg	5	54	43	0.04	
	Hurst Castle ...	29.42	44	ESE	3	c	29.28	- .16	49	48	+ 2	S	3	c	2	53	42	0.66	
	Dungeness ...	29.48	49	SSW	5	r	29.36	- .09	47	46	- 2	SSE	5	0	5	55	44	0.10	
	London ...	29.47	42	SE	2	bm	29.36	- .09	44	44	+ 5	SE	2	om	*	47	38	0.34	
	Oxford ...	29.47	41	ESE	1	0	29.33	- .12	43	42	+ 10	ESE	2	ogr	*	45	33	0.26	
	Cambridge ...	29.48	41	SSE	1	0	29.39	- .08	44	43	+ 11	E	1	0	*	45	32	0.11	
PENINSULA.	Yarmouth ...	29.52	43	ESE	3	c	29.46	+ .04	45	44	+ 7	SE	6	cg	5	45	36	0.14	
	Cuxhaven ...	29.57	44	SW	3	c	29.66	+ .24	40	40	- 6	ESE	2	6	*	47	40	-	
	Berlin ...	29.60	46	NW	3	r	29.71	+ .09	39	39	- 7	NW	1	f	*	52	39	-	
	Wiesbaden ...	*	*	*	*	*	29.57	- .05	46	45	- 1	NW	2	r	*	48	43	0.24	
	Munich ...	29.64	34	SW	1	c	29.61	- .14	31	30	- 3	NE	3	c	*	50	30	-	
	The Helder ...	29.58	43	NW	1	b	29.56	+ .15	41	40	- 5	ESE	3	0	2	46	41	-	
	Brussels ...	*	*	*	*	*	29.49	- .05	43	42	- 3	ESE	1	0	*	48	39	-	
	Cape Gris Nez...																		
	Paris ...																		
	Brest ...	29.34	51	WNW	3	f	?	?	46	44	- 4	Z	0	0	6	57	?	1.26	
PENINSULA.	Lorient ...	29.34	53	S	8	c	29.16	- .31	50	48	+ 1	E	5	E	6	54	45	0.28	
	Rochefort ...	29.52	51	SSE	5	c	29.32	- .33	48	46	- 1	SSE	7	0	3	55	41	0.24	
	Belfort ...																		
	Lyons ...	29.59	51	SSE	7	0	29.47	- .18	52	48	- 2	SSW	3	bc	*	56	48	0.51	
	Nice ...	29.82	51	ESE	7	r	29.69	- .16	48	48	0	ESE	4	r	4	54	41	2.17	
	Perpignan ...	29.52	58	SE	5	b	29.36	- .28	58	48	+ 2	SSW	11	c	*	65	39	-	
	Biarritz ...	29.47	59	SW	7	0	29.36	- .23	52	45	- 3	SSW	8	0	5	63	50	-	
	Coganna ...	*	*	*	*	*													
Lisbon ...	29.49	53	WSW	8	c	29.72	+ .05	53	47	0	WSW	7	c	8	57	48	0.35		

For Explanation of Columns, see p. 4.

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

WEATHER CHARTS

for 8 a.m. on

Thursday, 29th November,

1888.

BAROMETER, WIND & SEA.

(Explanation of Map)

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

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

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

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

○ = dead calm.

Sea Disturbance — where considerable, is shown thus.

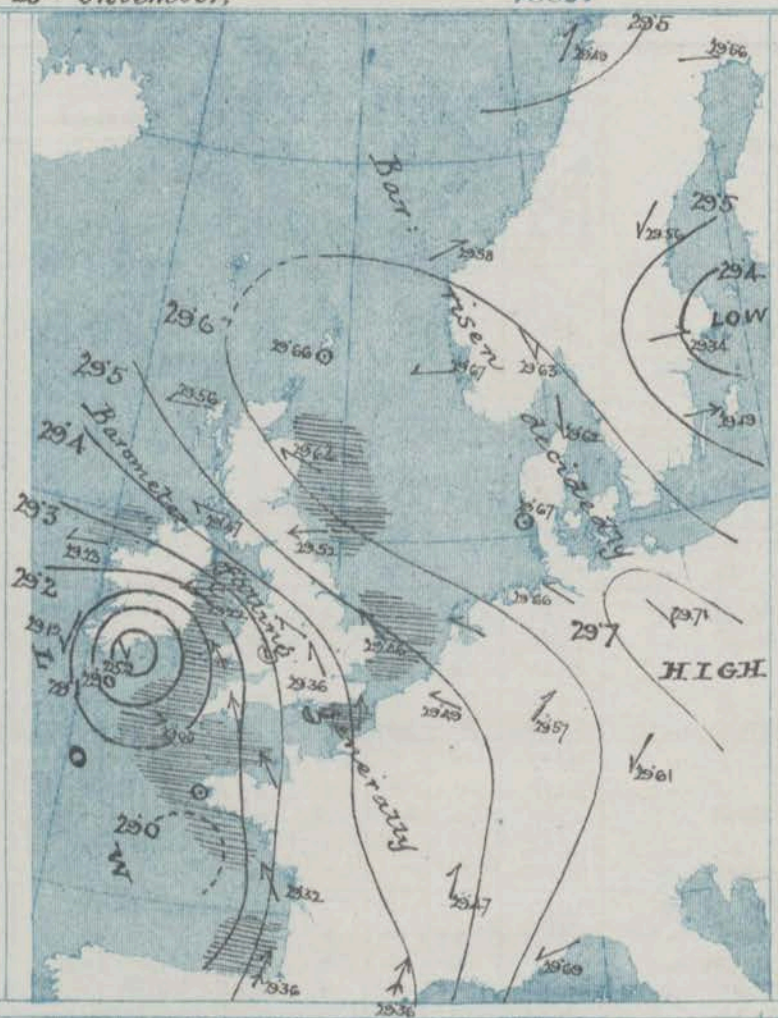
■ = Rough. ■ = High.

MEAN HEIGHT of the BAROMETER

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

During the 15 Years 1871-1885.

STATIONS.	MEAN READINGS.
	in.
Sumburgh Head	29.887
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'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.

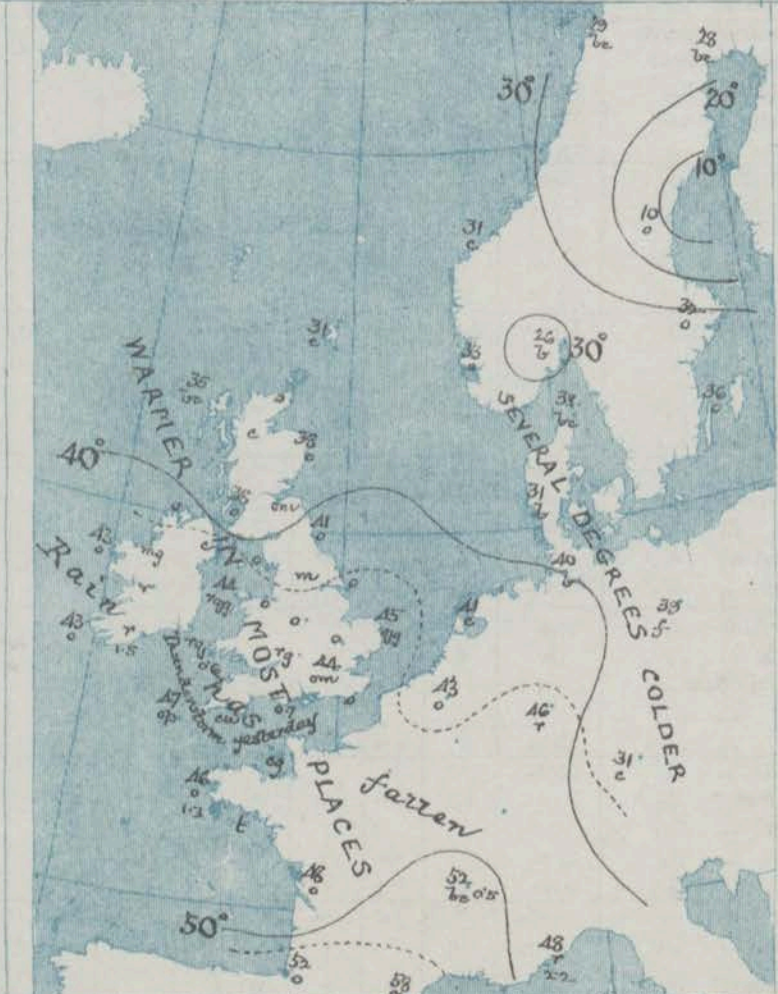
MEANS OF TEMPERATURE IN SHADE.

AND RAINFALL.

for the month of November.

STATIONS.	TEMPERATURE.				RAINFALL. (Inches.)
	Daily Max.	Daily Min.	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	38.0	42.6	40.8	3.92
Donaghadee	48.2	39.2	43.9	41.7	3.18
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
Roches'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	50.0	48.0	3.76
Jersey	51.9	44.2	47.5	45.6	4.24
Hurst Castle	50.5	40.3	44.8	43.6	2.93
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 1871-86, the Rainfall means are mainly those for the 20 years 1866-85.



GENERAL SITUATION AT 8 A.M.

PRESSURE

Highest, 29.7 ins. at Berlin; 29.6 ins. and upwards in a large area extending from Central Europe over Denmark, the North Sea and the south of Norway. Lowest, 28.3 ins. and less, in a depression lying off the southeast of Ireland; 29.1 ins. and less in another disturbance lying over the Bay of Biscay; 29.4 ins. and less in a third lying near Stockholm. Gradient steep over our coast east, but moderate or slight elsewhere. Barometer falling at all but the Scandinavian and Danish stations, — quickly in the west.

TEMPERATURE

Highest, 58° at Antwerp, 52° at Lyons and Birmm, 50° at Fribourg, and 49° at Hawke's Point, Hurst Castle and Jersey. Lowest, 10° at Hermand, 26° at Tander, 28° at Agharanda, 29° at Rode, 30° at Naim, and 31° at Christumund, Lumbough H^d. and Muenich. Frost occurred last night over the north of Scotland.

WIND

E^{ly} over the northern parts of our Islands; strong to a gale on our northwest coast. Fresh or strong from the SE^{ly} on our southern coasts; strong to a gale from S. in the south of France. Light and variable on the eastern shores of the North Sea; SW^{ly} in the northwest of Norway.

WEATHER

Fair in Denmark, North Germany and the north of Scandinavia. Cloudy elsewhere, with rain at many of our western stations and thunder at Fribourg. Since yesterday 2.2 ins. of rain have fallen at Kiev, 1.5 ins. at Hawke's Point, and 1.3 ins. at Brest. Thunder and lightning have again occurred over the south of England.

SEA

Rough or rather so on all but our extreme northern coasts.

PROBABLE CHANGES IN SYSTEM NOW PREVALENT

The depressions over our southwest coasts and the Bay of Biscay will probably occasion an increase in the steepness of the gradient, especially on our north and east coasts. The former disturbance is not likely to alter its position much, but the latter will probably advance northwards to our south and southwest coasts.

FORECASTS

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

1888.

DISTRICTS.

FORECASTS.

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

E^{ly} winds, freshening considerably; fair to showery.
 E^{ly} winds, increasing to a gale; some cold rain or sleet.
 SE^{ly} winds, strong, a gale in places; changeable, some rain.

DISTRICTS.

FORECASTS.

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

Same as N°0
 E^{ly} strong winds and gales; cloudy, some rain.
 Same as N°3 to 5.
 Same as N°7.
 N^{ly} and NE^{ly} winds, force doubtful; changeable, some rain.
 The NORTH CONE has been hoisted this morning in districts 0 to 2 and 6. The SOUTH CONE is still flying on all our southern coasts.

WARNINGS

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

YESTERDAY'S 2 P.M. REPORTS.

	Bar.	Dry.	Wet.	Wind.	Wen.	Sea.		Bar.	Dry.	Wet.	Wind.	Wen.	Sea.
Skudesnaes ...							Holyhead ...	29.39	43	44	W 4	c	2
Sumburgh Head ...	29.52	35	31	NNE 1	c	4	Valencia ...	28.98	46	45	S 3	o	3
Stornoway ...	29.52	39	38	E 4	c	4	Scilly ...	29.29	55	47	SSW 5	o p	6
Aberdeen ...	29.53	38	36	NW 2	c	6	Jersey ...	29.44	53	49	S 4	b c	2
Shields ...	29.49	43	40	W 0	c	4	Dungeness ...	29.47	51	49	WSW 4	c	3
Ardrossan ...	29.49	38	37	NE 1	c	1	London ...	29.47	46	45	SSW 1	o	*
Malin Head ...	29.43	41	39	SE 4	b	3	Yarmouth ...	29.50	42	40	WNW 1	b	2
Mullaghmore ...	29.38	41	39	E 5	omv	4	Rochefort ...	29.71	55	51	SSW 5	b	2
Belmullet ...	29.35	41	40	E 3	o	*							

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

The report for yesterday morning showed that pressure then varied from 30.1 ins. and more over South-eastern Europe to less than 28.3 ins. in a depression lying a little to the northward of the White Sea, to rather below 29.1 ins. in another lying over the S. Bay of Biscay, and to less than 29.2 ins. in a third, which was approaching Valencia from the SWth. Thus, while the winds over Europe were mainly Sth and SWth and blew strongly in the English Channel and at several of the French stations, ~~but~~ there was a considerable admixture of winds from the NEth and Nth in the west of Norway, Scotland, and the southeast of Ireland. The weather was very rainy and changeable over Northern Europe, and snowy in the north of Russia. Temperature was changing irregularly in the northwest, but was falling over Russia and Poland; two centres of frost were again reported — one over Northern Russia, the other over Hungary; the lowest individual readings reported were (1) 7° at Haparanda, 11° at Uleaborg, 12° at Arvidsjö, 23° at Archangel, 24° at Kuopio, 27° at Rode and 29° at Christiansund and 33° to 35° in the northeast of Scotland; (2) 25° at Humantadt, and 30° at Rudahelth. The highest values were 62° at Oran, 60° at Algiers, 56° at Perpignan, 54° at Marseilles and Aisette, 53° at Brindisi and Bari, 54° at Sangüinaria and Hellas, 52° at Lisieux and Abant.

Later on the depression in the west reached Valencia, and after growing much deeper, filled up suddenly. The weather continued wet and unsettled in the northwest and thick fog occurred in London.

EXPLANATION OF COLUMNS GIVEN ON PAGE 1.

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

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

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

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

DAILY WEATHER REPORT.

for *Friday, 30th November* 1888.
Issued by the Meteorological Office, 116, Victoria Street, London. R. H. SCOTT, Secretary.

		† YESTERDAY EVENING.					8 A.M. TO DAY.										PAST 24 HOURS.			
STATIONS.		Barometer at 32° F. and Sea Level.	Temp. in Shade.	WIND.		Weather.	BAROMETER.		SHADE TEMP.			WIND.		Weather.	Sea. (0 to 9.)	SHADE TEMP.				
				Dir.	Force. (0 to 12.)		Reading at 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.	Amount of Rainfall.		
SCANDINAVIA.	Haparanda ..	29.80	-14	Z	0	b	30.02	+ .46	-13	-14	-	41	Z	0	b	*	?	-17	-	
	Hernösand ...	29.86	2	Z	0	b	30.07	+ .51	5	5	-	5	NE	2	c	*	14	1	-	
	Stockholm ...	29.81	20	Z	0	b	29.95	+ .61	15	14	-	16	Z	0	b	*	37	?	-	
	Wisby ...	29.85	32	N	4	b	29.93	+ .44	28	27	-	8	ENE	2	b	*	46	28	-	
	Bodö ...	29.69	28	SW	4	c	29.88	+ .39	23	21	-	6	ENE	2	b	1	30	21	-	
	Christiansund...	29.76	28	SE	2	b	29.76	+ .18	28	25	-	3	ESE	3	b	3	32	25	0.28	
	Skudesnaes ...	29.76	35	ENE	2	bc	29.73	+ .06	32	28	-	1	E	2	bc	3	36	32	-	
	Christiania Fjord (Fjorder)	29.82	26	N	3	b	?	?	22	21	-	4	NNE	5	0	2	27	18	-	
	Skagen (The Seaw)	29.79	33	E	1	b	29.78	+ .16	31	30	-	0	SE	4	0	2	43	31	-	
	Fanö ...	29.68	34	SE	4	0	29.51	- .16	38	37	+ .7	4	E	4	0	*	?	31	-	
	Sumburgh Head	29.64	35	SE	1	c	29.53	- .13	41	40	+ .10	4	SE	4	0	4	41	31	-	
	Stornoway ..	29.47	38	SE	6	bc	29.34	- .22	41	41	+ .6	4	SE	4	bc	4	41	35	-	
	Wick ...	29.59	38	SE	4	0	29.46	- .17	43	42	+ .5	4	SSE	7	0	5	43	34	-	
	Nairn ...	29.52	36	ENE	1	0	29.38	- .22	37	35	+ .7	4	E	1	bc	1	39	29	0.05	
	Aberdeen...	29.56	37	ESE	6	0	29.49	- .15	40	38	+ .2	4	SE	6	0	6	43	37	0.11	
	Leith ...	29.41	42	NE	4	c	29.40	- .13	42	39	+ .3	4	E	3	0	*	44	37	0.08	
	Shields ...	29.40	45	E	5	0	29.39	- .13	44	42	+ .3	4	E	3	0	5	46	36	0.10	
	Spurn Head ...	29.34	47	ESE	6	0	29.29	- .16	45	43	- .2	4	E	4	0	4	47	43	0.03	
	York ...	29.36	46	E	2	0	29.34	- .10	43	42	-	0	NE	1	m	*	47	41	0.02	
	Loughborough	29.31	46	ENE	2	0	29.30	- .08	43	43	-	0	ENE	1	0	*	47	43	0.02	
BRITISH ISLANDS.	Ardrossan ...	29.35	40	NE	4	0	29.37	- .10	43	42	+ .5	4	E	3	m	2	43	37	0.02	
	Malin Head ...	29.16	43	E	8	b	29.28	- .03	43	43	+ .2	4	S	3	0	2	43	41	0.05	
	Mullaghmore ...	29.10	45	E	7	rg	29.27	+ .02	41	40	- .2	4	E	3	b	2	45	38	0.13	
	Belmullet ...	29.02	44	ENE	4	r	29.26	+ .03	39	38	- .1	4	E	2	b	*	44	39	0.22	
	Donaghadee ...	29.24	47	E	4	0	29.31	- .04	47	46	+ .5	4	SE	5	0	4	47	42	0.14	
	Barrow-in-Furness	29.30	45	NE	4	c	29.33	- .03	44	42	+ .4	4	E	4	c	*	45	40	-	
	Liverpool (Bidston)	29.27	46	ESE	3	0	29.30	- .03	44	42	+ .1	4	E	3	0	3	46	43	0.06	
	Holyhead ...	29.20	47	ESE	4	0	29.26	+ .04	45	44	+ .1	4	E	4	0	4	47	44	0.24	
	Parsonstown ...	29.07	44	Z	0	0	29.30	+ .18	32	32	- .10	4	Z	0	0	*	48	32	0.07	
	Valencia ...	29.12	45	W	2	bc	29.27	+ .15	44	42	+ .1	4	WSW	1	0	1	47	40	0.07	
	Roche's Point...	29.11	43	W	2	b	29.30	+ .42	34	33	- .8	4	N	1	b	4	45	30	0.04	
	Pembroke ...	29.18	47	SE	2	r	29.28	+ .24	48	43	-	0	W	4	bc	3	49	42	0.52	
	Scilly ...	29.13	48	WSW	4	c	29.33	+ .28	49	44	+ .2	4	W	4	c	4	49	46	0.01	
	Prawle Point ...	29.11	43	SSE	3	r	29.33	+ .15	44	42	- .5	4	W	4	bc	3	50	40	0.50	
	Jersey ...	29.14	50	SSE	7	0	29.36	+ .11	49	45	-	0	W	4	bc	4	51	45	0.24	
	Hurst Castle ...	29.20	48	SSE	4	c	29.27	- .01	45	45	-	4	WSW	4	c	3	50	45	0.18	
	Dungeness ...	29.26	48	SE	4	0	29.20	- .16	47	46	-	0	SW	3	c	4	49	46	0.04	
	London ...	29.28	46	SE	1	cm	29.24	- .12	46	45	+ .2	4	Z	0	0	*	48	44	0.11	
	Oxford ...	29.27	44	ESE	1	0	29.25	- .08	43	43	-	0	ENE	1	r	*	47	43	0.19	
	Cambridge ...	29.31	47	SSE	1	0	29.26	- .13	44	43	-	0	N	1	r	*	48	42	0.01	
	Yarmouth ...	29.35	46	ESE	6	0	29.23	- .23	45	44	-	0	ENE	3	rg	5	47	43	0.10	
	Cuxhaven ...	29.64	41	ESE	6	0	29.48	- .18	42	41	+ .2	4	ESE	4	0	*	51	40	-	
	Berlin ...	29.64	42	ESE	4	0	29.51	- .20	41	40	+ .2	4	ESE	2	0	*	46	39	-	
	Wiesbaden ...	*	*	*	*	*	29.51	- .06	42	41	-	4	Z	0	c	*	48	41	0.08	
	Munich ...	29.41	33	NE	5	b	29.66	+ .05	38	37	+ .7	4	SW	3	0	*	44	30	0.04	
	The Helder ...	29.45	40	E	3	c	29.32	- .24	42	40	+ .1	4	E	1	1	2	43	39	-	
	Brussels ...	*	*	*	*	*	29.36	- .13	45	43	+ .2	4	S	4	0	*	50	41	0.08	
	Cape Gris Nez...	29.28	45	ESE	1	bc	29.23	-	46	45	-	4	SW	5	r	4	48	41	0.28	
	Paris ...	29.28	48	S	1	0	29.47	+ .06	44	42	+ .5	4	SW	4	0	*	52	?	-	
	Brest ...	?	45	NW	8	r	29.45	?	50	44	+ .4	4	NW	4	0	5	55	?	1.26	
FRANCE & NETHERLANDS.	Lorient ...	29.16	49	W	7	0	29.41	+ .25	46	44	-	4	WSW	5	0	4	54	45	0.67	
	Rochefort ...	29.38	51	WSW	8	r	29.55	+ .23	46	45	-	2	S	5	r	2	55	41	0.83	
	Belfort ...	29.37	39	W	4	0	29.65	+ .10	46	41	+ .1	4	W	3	c	*	48	34	-	
	Lyons ...	29.47	44	SSE	1	0	29.69	+ .22	41	35	- .11	4	SSW	3	bc	*	54	41	0.59	
	Nice ...	29.54	47	?	9	6	29.79	+ .10	50	39	+ .2	4	ENE	3	bc	3	55	43	2.21	
	Perpignan ...	29.54	49	Z	0	b	29.65	+ .29	36	35	- .22	4	W	1	b	*	68	34	-	
	Biarritz ...	29.45	54	W	9	b	29.63	+ .27	53	44	+ .1	4	SW	5	b	4	59	50	-	
	Corunna ...	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Lisbon ...	29.78	56	WSW	7	bc	29.74	+ .02	49	48	-	4	W	7	c	4	57	48	0.24	
	DENMARK.																			

WEATHER CHARTS

for 8 a.m. on Friday, 30th November

1888.

BAROMETER, WIND & SEA.

(Explanation of Map)

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

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

→ = forces above 10; → = forces 8 to 10;
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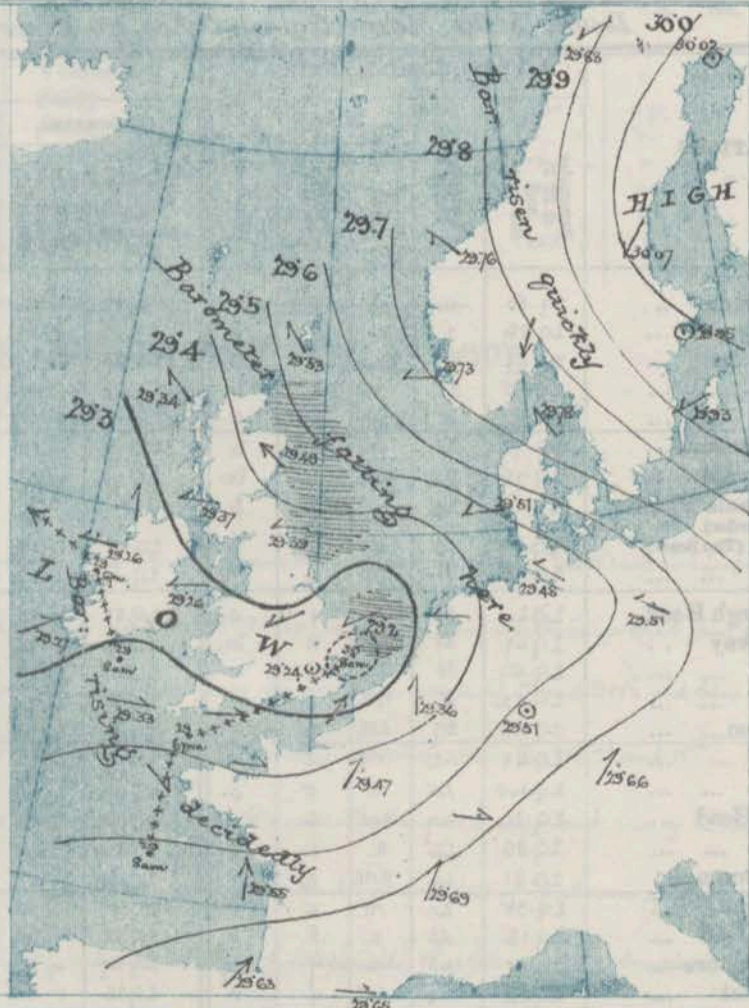
Sea Disturbance — where considerable is shown thus.

— Rough — High

MEAN HEIGHT of the BAROMETER

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

STATIONS.	MEAN READINGS.
Sumburgh Head	29.687
Stornoway	29.707
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Holyhead	29.835
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Parsonstown	29.848
Valencia	29.864
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Pembroke	29.862
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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.

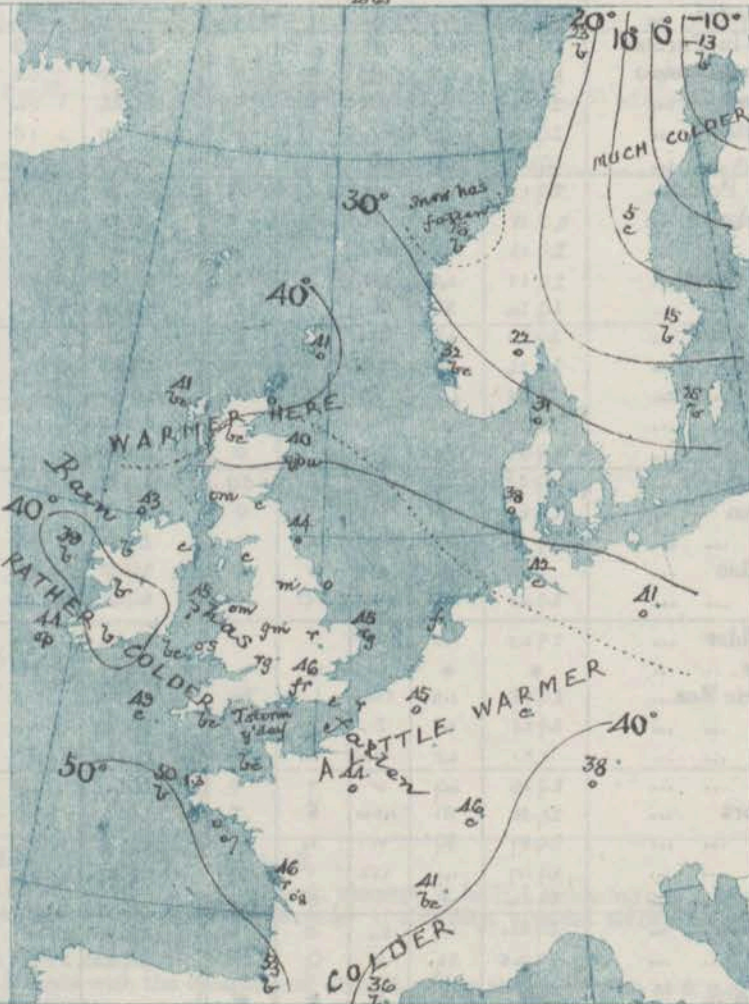
Rainfall — A dotted line separates the districts in which rain has fallen from those where there has been none. Falls of 0.5 in. or more are quoted in figures.

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.	
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Nairn	44.7	35.5	39.1	37.5	2.32
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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	4.56
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	4.24
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	42.0	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, 30.0 in. and upwards over the Gulf of Bothnia, 29.7 in. and upwards over the southern part of the Iberian Peninsula.
 Lowest, 29.2 in. and less, in a small depression lying over the southeast of England, 29.3 in. and less, in a long trough extending from the Dutch coast to the N. of Ireland.
 Gradients moderate or slight generally. Barometer falling on the eastern shores of the North Sea, but rising elsewhere.

TEMPERATURE

Highest, 53° at Biarritz, 50° at Bristol, 49° at Bells. Jersey and Lisbon, 48° at Pembroke, and 47° at Bonaparte and Pungences.
 Lowest, -13° F. at Naparanda, +5° at Hérnand, 15° at Stockholm, 21° at Lander, 23° at Rost, 25° at Nisby and Christiansund, 31° at Skagen and 32° at Harmslow.
 At Naparanda a fall of 41° is reported to have occurred since yesterday morning.

WIND

Moderate from W. on our extreme south and southeast coast; fresh from SW. over the Bay of Biscay.
 Fresh or strong from the SE. in the north of our islands, moderate from E. over the North Sea, Denmark and Norway.

WEATHER

Fair in Scandinavia, as well as at several of our western, southern, and the French stations.
 Cloudy or overcast elsewhere, with rain over the inland parts of England, and thunder at Lisbon.
 Rain fell yesterday in nearly all parts of our islands and France, and thunderstorms occurred at Hurst Castle and Lyons.

SEA

Rather rough on most parts of our north and east coast, but moderate to smooth elsewhere.

PROBABLE CHANGES IN SYSTEM NOW PREVALENT

The small depression over the southeast of England will probably travel away across the North Sea.

There are at present no signs of the approach of any fresh disturbance, and an improvement in the weather is therefore likely over the southern parts of the kingdom. Conditions are, however, not yet settled.

FORECASTS

for the 24 hours ending at NOON on 1st December 1888.

DISTRICTS.

FORECASTS.

1	SCOTLAND NORTH	SE ² winds, strong; cloudy, some rain.
1	SCOTLAND EAST	
2	ENGLAND N.E.	E ² winds, fresh; dull, some rain.
3	ENGLAND EAST	E ² to variable or SW ² breezes; dull, some rain or fog.
4	MIDLAND COUNTIES	W ² and SW ² winds, moderate, showery to fair
5	ENGLAND SOUTH	

DISTRICTS.

FORECASTS.

6	SCOTLAND WEST	E ² and SE ² winds, moderate or fresh; cloudy, some rain.
7	ENGLAND N.W.	
8	ENGLAND S.W.	W ² winds, moderate or fresh; changeable, some showers.
9	IRELAND NORTH	SE ² to S ² winds, moderate; changeable, some showers.
10	IRELAND SOUTH	SW ² winds, moderate or fresh; changeable, some showers.

WARNINGS

The NORTH CONE is still flying in districts 0 to 2, and 6.

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

YESTERDAY'S 2 P.M. REPORTS.

	Bar.	Dry.	Wet.	Wind.	Wes.	Sea.		Bar.	Dry.	Wet.	Wind.	Wes.	Sea.
Skudesnæs ...							Holyhead ...	29.18	46	44	ESE 5	0	5
Sumburgh Head ...	29.65	31	28	2 0	60	3	Valencia ...	29.07	46	44	WNW 8	0	3
Stornoway ...	29.51	39	38	SE 5	6	4	Scilly ...	29.12	49	45	WNW 4	0	5
Aberdeen ...	29.58	39	36	ESE 5	0 9 9	5	Jersey ...	29.16	50	48	ESE 7	0	5
Shields ...	29.40	45	44	E 5	0	5	Dungeness ...	29.31	49	47	ESE 4	0	4
Ardrossan ...	29.37	38	38	NE 4	0	2	London ...	29.31	48	46	ESE 2	0 m	4
Malin Head ...	29.22	41	40	E 7	0	6	Yarmouth ...	29.40	47	45	ESE 5	7 9	5
Mullaghmore ...	29.13	43	41	E 8	0 9 8	6	Rochefort ...	29.71	52	49	WSW 8	7	3
Belmullet ...	29.11	42	41	E 6	0	*							

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

The reports for yesterday morning showed that the distribution of pressure over Northern and Western Europe was still very complex, and that readings varied from between 29.9 ins. and 30.1 ins. over the eastern parts of the Mediterranean and South-eastern Europe, and from between 29.6 ins. and 29.7 ins. in a ridge which extended thence from Germany, in a northwesterly direction over the North Sea, to rather below 28.9 ins. in a new depression which had arrived off the south-east of Ireland, to less than 29.1 ins. in a secondary system lying over the Bay of Biscay, and to rather below 29.3 ins. in another depression lying over the Gulf of Bothnia, near to Stockholm. Over the north of Russia readings were somewhat higher, and the barometer was rising. The wind had become S² to SE² over France, and SE² to E² over England, but was still SW² over Central Europe, and W² over the Baltic and south of Sweden. Over Northern Europe it was very variable but mainly W², while in Scotland and the northern parts of England and Ireland it was E² and in the south of Ireland N². The weather was cloudy and very unsettled except in the north, much rain had fallen in the south and west of France, and the south of our islands, and thunderstorms had occurred at many of the French stations. Temperature had fallen fast over Ireland, the shores of the North Sea, and to a smaller extent over Germany, and remained low over Hungary, while over the British Isles it had risen. The lowest readings reported were (1) 2° F. at Tréport, 10° at Helsingfors, 11° at Umeå, 13° at Archangel, 22° at Odes, 28° at St. Petersburg, and 29° at Rostov; (2) 26° at Hermannstadt, and 31° at Cassow; the highest were 58° at Perpignan, 57° at Brindisi, 56° at Barcelona and Liria, 53° at Lisbon, 52° at Biarritz, 51° at Trieste, 50° at Genoa, and about 49° on the coasts of the English Channel.

Later in the day the western depression moved northwards over Ireland, and the secondary system passed northwards across France, the wind became more W² in the south and lulled, and the sea began to go down.

EXPLANATION OF COLUMNS GIVEN ON PAGE 1.

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

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

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

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

CORRECTIONS AND ADDITIONS TO THE REPORTS FOR NOV³ 1888.

1. REPORTS RECEIVED TOO LATE FOR INSERTION DAILY.

DATE.	STATIONS.	† YESTERDAY EVENING.						8 A.M. TO DAY.										PAST 24 HOURS.		
		Barometer at 32° F. and Sea Level.	Temp. in Shade.	WIND.		Weather.	Reading at 32° F. and Sea Level.	Difference from 8 a.m. yesterday.	SHADE TEMP.		Difference from 8 a.m. yesterday.	WIND.		Weather.	Sea, (0 to 9.)	SHADE TEMP.		Amount of Rainfall.		
				Dir.	Force, (0 to 12.)				Dry.	Wet.		Dir.	Force, (0 to 12.)			Max.	Min.			
1	Corunna	-	-	-	-	-	29.91	-20	57	-	-5	SW	4	C	3	72	50	0.12		
2	Belfort	29.63	42	W	1	P	29.47	-	48	-	-	SW	1	C	*	55	42	-		
	Corunna	*	*	*	*	*	29.89	-02	52	-	-5	W	7	P	6	64	50	0.63		
3	Belfort	29.56	38	N	1	O	29.72	+25	43	-	-5	N	1	O	*	52	38	0.32		
5	Corunna	*	*	*	*	*	29.62	-22	54	-	-1	W	1	O	6	66	52	0.59		
6	Corunna	*	*	*	*	*	29.58	-04	53	-	-1	WNW	2	C	4	61	50	1.02		
7	Corunna	*	*	*	*	*	29.76	+18	56	-	+3	NW	2	O	4	61	52	0.79		
8	Cape Gris Neg	29.82	33	E	4	O	29.87	+12	33	-	+6	E	4	C	4	34	27	-		
	Corunna	*	*	*	*	*	29.56	+20	54	-	-2	W	5	bc	4	63	52	0.87		
9	Cape Gris Neg	29.82	38	E	4	C	29.82	-05	38	-	+5	E	4	P	4	39	?	-		
	Corunna	*	*	*	*	*	29.86	+30	50	-	-4	SW	4	C	4	59	46	0.04		
10	Cape Gris Neg	29.81	38	E	3	bc	29.93	+11	34	-	-4	E	3	b	3	45	34	-		
	Corunna	*	*	*	*	*	29.73	-13	60	-	+10	SSW	8	P	6	?	?	0.12		
12	Corunna	*	*	*	*	*	29.50	-31	58	-	+1	S	2	O	4	66	55	0.04		
	Lisbon	29.88	64	SSW	7	O	29.66	-31	60	-	+4	SW	1	P	8	66	?	1.42		
13	Cape Gris Neg	29.62	52	SSE	7	O	29.51	-30	51	-	+5	SSE	1	b	4	54	46	0.12		
	Corunna	*	*	*	*	*	29.71	+21	51	-	-7	SW	2	C	4	63	45	0.04		
14	Cape Gris Neg	29.68	48	SW	5	b	29.91	+41	46	-	-5	SSW	2	C	2	54	45	-		
	Corunna	*	*	*	*	*	30.03	+32	54	-	+3	SW	2	P	6	77	?	0.35		
15	Cape Gris Neg	30.10	47	S	2	O	30.23	+32	44	-	-2	SSW	5	P	4	48	43	-		
	Corunna	*	*	*	*	*	30.08	+05	59	-	+5	S	3	b	4	61	54	-		
16	Mullaghmore	-	-	-	-	-	29.20	-41	52	50	-1	SW	9	omp	7	58	40	0.01		
	Belmullet	-	-	-	-	-	29.46	-23	51	48	-1	WNW	11	O	*	53	39	0.05		
	Corunna	*	*	*	*	*	30.40	+32	55	-	-4	E	4	C	4	68	50	-		
17	Hornosand	29.10	39	S	11	P	28.80	-82	42	-	+8	SW	3	C	*	41	?	0.16		
	Stockholm	29.42	43	SW	5	O	29.22	-65	45	-	+5	SW	11	b	*	45	34	0.05		
	Frisby	29.68	43	SW	11	C	29.82	-52	44	-	+4	SW	8	b	*	45	36	-		
	Cape Gris Neg	30.17	53	SW	8	P	30.15	-04	53	-	0	W	8	C	7	57	52	0.04		
	Corunna	*	*	*	*	*	30.44	+04	54	-	-1	SSE	4	bc	5	66	50	-		
18	Cape Gris Neg	29.99	52	W	8	C	29.98	-10	53	-	-2	WNW	8	O	7	54	50	0.29		
	Corunna	*	*	*	*	*	30.38	-04	51	49	0	NE	3	C	5	261	46	-		
20	Mullaghmore	-	-	-	-	-	29.60	-16	40	38	-11	W	8	cgr	7	54	37	0.25		
	Nice	30.21	50	E	9	b	30.19	-01	47	44	+4	SSE	5	b	2	57	?	-		
	Corunna	*	*	*	*	*	30.35	-03	53	52	+2	S	3	P	4	64	50	0.16		
	Mullaghmore	-	-	-	-	-	29.74	-	40	38	-	NW	9	chrg	8	-	-	-		
21	Mullaghmore	29.85	43	NW	9	C	30.02	+42	49	46	+9	W	7	ogry	7	49	38	0.24		
	Cape Gris Neg	29.84	47	W	11	bc	30.08	+33	44	-	-5	NW	8	bc	8	54	43	0.16		
	Corunna	*	*	*	*	*	30.54	+19	53	49	0	NE	3	bc	5	61	48	0.12		
22	Corunna	*	*	*	*	*	30.56	+02	42	41	+11	SSW	1	b	5	66	39	-		
23	Cape Gris Neg	30.19	49	W	8	O	30.25	+06	53	-	+2	W	8	O	7	55	?	-		
	Corunna	*	*	*	*	*	30.52	-04	40	39	-2	SSE	1	b	3	68	37	-		
24	Corunna	*	*	*	*	*	30.60	-02	41	39	+1	NE	1	b	3	57	32	-		
25	Cape Gris Neg	30.13	53	W	9	O	30.06	-11	53	-	0	WSW	8	C	7	55	52	-		
26	Sumburgh Hd	-	-	-	-	-	28.40	-82	40	39	0	W	9	O	8	50	37	0.34		
	Ljoms	30.28	39	W	1	b	30.21	-19	34	-	-10	S	1	b	*	48	31	-		
	Corunna	*	*	*	*	*	30.08	-26	56	52	+15	W	7	O	4	59	?	-		
	Lisbon	30.34	55	SW	5	b	30.33	-05	47	47	+2	N	3	P	?	61	?	-		
	Sumburgh Hd	-	-	-	-	-	28.78	-	39	37	-	NW	10	O	9	-	-	-		
27	Haparanda	28.60	27	S	4	O	28.65	-35	24	-	+4	N	3	O	*	?	12	0.16		
	Hornosand	28.88	24	S	1	bc	28.79	-01	26	-	-2	N	8	O	*	34	19	0.04		
	Stockholm	28.89	39	S	3	bc	28.78	-28	44	-	-2	WSW	8	O	*	46	27	-		
	Sumburgh Hd	29.06	37	NW	7	P	29.39	+99	32	31	-8	N	3	b	4	41	36	0.18		
	Cape Gris Neg	29.69	50	W	7	O	29.52	-08	50	-	+1	S	8	O	6	55	48	0.08		
	Corunna	*	*	*	*	*	29.74	-34	51	-	-5	WSW	5	P	4	?	50	0.91		
28	Haparanda	28.91	15	SSE	1	C	29.33	+68	6	-	-15	NW	3	bc	*	21	5	-		

Continued on page 4.

SUMMARY of the METEOROLOGICAL OBSERVATIONS made at TELEGRAPHIC REPORTING
Observations are made at 8 a.m. daily, but the numbers of days of Rain, Snow, Hail,
(The Stations are grouped in Districts, and then arranged in order of

Names of Districts.	Names of Stations.	Mean height of Barometer (at 32° Fahrenheit and Mean Sea Level) from observations made at 8 a.m.	Air Temperature.								Tension of Vapour
			At 8 a.m.	Means of			Absolute Extremes.				
				Minima	Maxima	Min. and Max. combined	Minimum	Date	Maximum	Date	
		ins.	°	°	°	°	°		°		ins.
0. SCOTLAND, N.	{ Sumburgh Head ...	29.576	41.3	38.0	44.9	41.5	27	29 th	51	15 th 16 th 21 st 22 nd	22.0
	{ Wick ...	29.595	43.3	37.8	46.3	42.1	23	29 th	52	16 th 17 th 21 st 23 rd	22.9
	{ Stornoway ...	29.512	43.5	38.2	47.8	43.0	27	27 th	54	15 th 21 st	27.5
1. SCOTLAND, E.	{ Nairn ...	29.591	42.4	36.9	48.1	42.5	25	27 th	57	15 th 16 th	22.9
	{ Aberdeen ...	29.671	43.0	39.6	47.6	43.6	27	27 th	58	19 th 21 st 23 rd	22.5
	{ Leith ...	29.653	45.0	39.9	48.9	44.4	30	27 th	58	18 th 16 th	23.5
2. ENGLAND, N.E.	{ Shields ...	29.705	45.9	40.1	49.8	45.0	33	21 st	60	16 th	26.0
	{ York ...	29.747	45.1	40.9	50.6	45.8	33	28 th 29 th	61	16 th	25.4
	{ Spurn Head ...	29.752	46.4	42.4	49.1	45.8	36	21 st	59	16 th	27.3
3. ENGLAND, E.	{ Yarmouth ...	29.799	45.7	41.7	49.1	45.4	36	7 th 8 th 21 st 28 th 29 th	59	16 th	27.9
	{ Cambridge ...	29.797	45.9	40.7	51.6	46.2	31	28 th	61	16 th	27.9
4. MIDLAND COUNTIES.	{ Loughborough ...	29.769	45.2	41.6	50.7	46.2	30	28 th 29 th	61	16 th	26.9
	{ Oxford ...	29.789	45.5	42.2	50.4	46.3	33	28 th 29 th	59	16 th	28.1
5. ENGLAND, S.	{ London ...	29.802	46.7	43.5	51.5	47.5	32	8 th	60	16 th	28.4
	{ Dungeness ...	29.811	48.5	45.7	52.0	48.9	32	7 th	57	16 th 23 rd	30.1
	{ Hurst Castle ...	29.803	49.6	46.5	53.3	49.9	36	7 th 8 th	58	15 th	33.7
6. SCOTLAND, W.	Ardrossan ...	29.641	45.0	40.9	48.4	44.7	33	28 th 29 th	53	15 th 16 th 21 st 23 rd	26.8
7. ENGLAND, N.W.	{ *Hawes Junction ...	28.471	40.8	37.0	44.3	40.7	29	29 th	54	15 th	25.1
	{ Barrow-in-Furness ...	29.693	45.7	42.5	49.0	45.8	33	28 th 29 th	56	1 st 15 th	26.8
	{ Liverpool Obs ^y (Bidston)	29.717	46.0	42.8	53.3	46.6	35	7 th	60	15 th	26.1
	{ Holyhead ...	29.691	47.5	44.6	50.9	47.8	36	28 th 29 th	56	24 th	28.5
8. ENGLAND, S.W.	{ Pembroke ...	29.710	49.2	46.0	51.8	48.9	35	21 st	55	15 th 16 th	31.4
	{ Prawle Point ...	29.789	49.9	45.4	53.0	49.2	36	7 th	58	9 th	32.3
9. IRELAND, N.	{ Malin Head ...	29.551	45.1	41.4	48.3	44.9	32	29 th	54	14 th	27.2
	{ Donaghadee ...	29.654	46.2	43.0	50.1	46.6	32	27 th	56	24 th	28.5
	{ Mullaghmore ...	29.597	47.2	43.0	50.7	46.9	33	28 th	58	15 th	27.5
	{ Belmullet ...	29.600	47.2	43.3	51.0	47.2	34	28 th 29 th	56	15 th 24 th	28.2
10. IRELAND, S.	{ Parsonstown ...	29.655	45.5	41.1	49.8	45.5	26	28 th	59	15 th	26.3
	{ Valencia ...	29.660	50.2	45.8	53.3	49.6	36	28 th	58	15 th	30.5
	{ Roche's Point ...	29.667	48.8	45.2	52.8	49.0	33	30 th	57	19 th	30.7
CHANNEL ISLANDS.	{ Scilly (St. Mary's) ..	29.798	52.2	48.8	54.8	51.8	44	28 th 29 th	58	11 th	32.6
	{ Jersey (Noirmont) ...	29.849	51.2	48.1	55.4	51.8	41	3 rd	60	16 th	32.5

* Hawes Junction is 1135 feet above mean Sea Level and the

* Hawes Junction is 1135 feet above mean Sea Level and the

STATIONS in the BRITISH ISLANDS during the Month of NOVEMBER 1888.
 Thunderstorms and Gales are counted irrespective of the hours at which they occurred.
 Latitude, beginning in each case with the Station lying furthest North.)

Relative Humidity	Amount of Cloud	Rainfall.			Weather							Wind								
		Total Fall in the month	Maximum Fall in one day	Date	No. of Days of							No. of Observation of								
					Rain	Snow	Hail	Thunderstorms	Clear Sky	Overcast	Gales	North	N.E.	East	S.E.	South	S.W.	West	N.W.	Calms
%		ins.	in.																	
85	9.3	4.08	0.95	15 th	23	3	2	0	0	24	15	3	1	0	10	5	0	6	2	3
85	8.6	2.58	0.38	15 th	23	3	2	2	1	21	10	1	1	2	3	11	3	4	5	0
97	7.9	6.36	0.96	15 th	19	1	1	1	1	18	18	0	0	4	11	0	4	5	4	2
88	7.3	3.10	0.62	23 rd	16	2	0	0	2	13	4	0	0	4	4	2	7	3	1	6
81	8.1	3.69	0.80	13 th	25	4	1	0	0	15	17	0	0	2	13	3	8	3	1	0
79	7.1	3.74	0.60	27 th	22	3	0	0	3	10	3	1	1	5	8	2	3	9	1	0
85	8.0	3.29	1.05	12 th	18	0	0	0	1	16	18	0	1	9	3	4	10	2	0	1
85	8.1	3.48	0.79	12 th	23	1	0	0	2	18	1	0	3	10	4	3	3	6	1	0
87	7.6	1.84	0.33	27 th	23	1	0	0	4	15	22	0	1	8	5	4	8	4	0	0
92	6.3	2.82	0.47	1 st	20	0	0	0	5	8	12	0	0	6	7	3	6	7	1	0
91	8.5	3.09	0.51	1 st	18	0	0	0	1	20	0	1	0	11	2	3	7	3	0	3
90	8.9	3.30	0.44	12 th	20	0	0	0	1	23	8	0	2	10	4	2	5	6	0	1
93	8.2	4.37	0.83	2 nd	22	0	1	0	3	20	2	1	1	7	3	4	5	6	0	3
89	8.1	4.04	0.75	2 nd	19	0	0	0	2	20	9	0	1	3	8	5	6	2	3	2
88	7.9	2.74	0.55	1 st	21	0	0	0	1	15	9	0	0	2	5	5	6	9	2	1
95	7.1	5.23	0.76	12 th	27	0	4	1	0	6	16	0	2	5	2	3	6	10	2	0
90	8.0	4.50	0.81	23 rd	21	0	2	1	4	21	8	0	9	5	1	3	4	6	0	2
99	9.5	11.55	1.11	23 rd	26	4	3	0	1	28	8	0	5	10	2	4	9	0	0	0
88	8.5	5.19	0.65	27 th	21	0	1	0	1	20	15	1	9	5	4	1	7	2	1	0
85	8.8	4.50	0.61	12 th	24	0	1	0	1	23	5	1	0	10	6	2	5	6	0	0
87	7.3	4.71	1.14	12 th	26	0	0	0	2	12	13	1	1	10	2	3	6	6	0	1
91	6.9	6.53	1.05	12 th	26	0	1	1	0	7	17	0	2	6	5	4	6	7	0	0
91	7.7	6.03	1.20	12 th	25	0	0	0	0	13	13	1	2	3	3	4	7	9	1	0
90	7.4	4.13	0.74	16 th	21	0	6	3	5	19	12	0	1	2	9	4	4	5	5	0
92	7.5	4.35	1.23	12 th	27	0	0	1	1	11	11	2	1	6	6	2	6	6	1	0
86	8.4	3.82	0.54	10 th	23	0	6	1	1	18	22	1	1	11	3	2	7	5	0	0
88	7.9	3.57	0.40	17 th	26	0	2	0	4	20	13	1	0	8	5	2	3	9	2	0
87	8.3	2.32	0.66	10 th	22	0	0	0	2	20	0	1	1	2	5	2	7	4	1	7
84	8.7	3.56	0.57	9 th	27	0	0	0	0	20	15	3	4	3	4	1	5	9	1	0
89	7.3	9.27	1.45	28 th	23	0	0	0	3	14	14	4	1	2	5	2	7	7	2	0
83	8.6	4.54	0.60	8 th	24	0	1	1	0	18	18	1	1	2	3	6	7	7	3	0
86	7.8	5.07	1.10	12 th	28	0	3	0	2	18	15	0	1	4	4	2	7	7	4	1

Barometric Observations at this Station are not corrected for altitude.

1. REPORTS RECEIVED TOO LATE FOR INSERTION DAILY—(continued.)

DATE.	STATIONS.	† YESTERDAY EVENING.						3 A.M. TO DAY.									PAST 24 HOURS.		
		Barometer at 32° F. and Sea Level.	Temp. in Shade.	WIND.		Weather.	BAROMETER.		SHADE TEMP.			WIND.		Weather.	Sea. (0 to 9.)	SHADE TEMP.		Amount of Rainfall.	
				Dirac.	Force. (0 to 12.)		Reading at 32° F. and Sea Level.	Difference from 8 a.m. yesterday.	Dry.	Wet.	Difference from 8 a.m. yesterday.	Dirac.	Force. (0 to 12.)			Max.	Min.		
28	Hornö sand...	29.81	21	SW.	5	b	29.50	+ .71	12	-	-	14	NW	1	c	28	?	-	
-	Stockholm...	29.57	28	SW	1	b	29.36	+ .58	30	-	-	11	ENE	5	r	45	27	0.08	
-	Frisby...	29.62	33	NSW	5	o	29.36	-	39	-	-	-	W	5	o	46	27	0.08	
-	Corunna...	*	*	*	*	*	29.39	- .35	48	47	-	3	W	5	r	55	45	0.63	
29	Cape Gris Neg...	29.49	45	S	3	c	29.41	- .06	42	-	-	4	E	1	r	4	32	41	0.04
-	Paris...	29.58	45	E	3	c	29.41	- .19	39	39	-	5	SS E	1	b	?	40	-	
-	Belfort...	29.57	40	W	1	r	29.55	- .12	45	44	+	5	W	1	c	49	38	1.18	
-	Corunna...	*	*	*	*	*	29.31	- .08	48	47	0	W	4	r	5	55	45	0.63	
30	Corunna...	*	*	*	*	*	29.71	+ .40	47	46	-	1	W	4	c	55	45	0.71	
%. CORRECTIONS																			
1	Parsonstown...	29.75	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
2	Leith...	-	-	-	-	-	-	-	-	-	-	-	-	-	-	53	-	-	
3	Malin Hd...	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.12	
4	London...	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.03	
5	Belmullet...	-	-	E	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	Pembroke...	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.42	
6	Ardrassan...	-	48	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	Jersey...	-	-	-	-	-	-	-	51	50	-	1	-	-	-	-	-	-	
7	Leith...	-	-	-	-	-	-	-	43	-	-	-	-	-	-	-	-	-	
8	Aberdeen...	-	-	-	-	-	-	-	-	-	-	-	-	5	-	-	-	-	
11	Mairn...	29.75	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	Parsonstown...	29.60	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
12	Loughborough...	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	Mullaghmore...	29.63	-	-	-	-	29.36	- .21	-	-	-	-	-	-	-	-	-	-	
-	Ardrassan...	-	-	-	-	-	-	-	-	-	-	-	NE	-	-	-	-	-	
13	Ardrassan...	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.09	
-	Hurst Castle...	-	-	-	-	-	-	-	-	-	-	-	W	-	-	-	-	-	
-	Mullaghmore...	-	-	-	-	-	29.28	-	-	-	-	-	-	-	-	-	-	-	
14	Hurst Castle...	-	-	-	-	-	29.90	-	-	-	-	-	-	-	-	-	-	-	
15	Spurn Hd...	-	-	-	-	-	29.96	-	-	-	-	-	-	-	-	-	-	-	
-	Cambridge...	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.03	
17	Jersey...	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	52	-	
18	Parsonstown...	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	45	-	
19	Spurn Hd...	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	43	-	
-	Cambridge...	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.02	
20	Ardrassan...	-	-	-	-	-	-	-	-	-	-	-	-	-	5	-	-	-	
-	Mullaghmore...	29.62	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.10	
21	Rock's Point...	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
24	Mullaghmore...	29.89	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
25	Aberdeen...	-	-	-	-	-	-	-	52	-	+	15	-	-	-	-	-	-	
27	Barrow-in-Th...	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	39	-	
-	Rock's Pt...	-	-	-	-	-	29.09	- .51	-	-	-	-	-	-	-	-	-	-	
28	Cambridge...	29.25	46	-	6	-	-	-	-	-	-	-	-	-	-	-	-	-	
29	Rock's Pt...	-	-	-	-	-	28.98	- .27	-	-	-	-	-	-	-	-	-	-	
30	Mullaghmore...	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	46	-	
-	Rock's Pt...	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	53	-	