METEOROLOGICAL OFFICE.

DAILY WEATHER REPORTS

1ST JULY TO 31ST DECEMBER, 1898.

DAILY WEATHER REPORT.

July to December 1898.

DAILY WEATHER REPORT

for 8 a.m. on Tuesday, 1st November, 1898.

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

	STATIONS.	YESTERDAY EVENING. (See note at bottom of last page.)					THIS MORNING. (See note at bottom of last page.)								PAST 24 HOURS.				
		Barom.	Temp.	Wind.		Weather	Barometer.		Temperature.			Wind.		Weather.	Sea (0 to 9.)	Weather.	Hours of Bright Sunshine.	Temp.		Rainfall.
		At 32° and M.S.L.	Dry Bulb.	Direc.	Force (0 to 12.)		At 32° Fahr. and M. S. L.	Change since Yesterday.	Dry Bulb.	Wet Bulb.	Change since Yesterday.	Direc.	Force (0 to 12.)					Max.	Min.	
		Ins.	°				Ins.	Ins.	°	°	°							°	°	Ins.
Scandinavia	Haparanda ...														*		*			
	Hernösand ...	29.47	33	N	4	S	29.53	+.15	37	36	-1	NE	4	T	*	S	*	41	32	0.59
	Stockholm ...	29.49	46	NE	0	b	29.58	+.14	48	46	+2	SSW	2	b	*	b	*	50	41	0.04
	Wisby	29.65	49	SW	8	b	29.70	+.11	48	46	+1	SW	5	c	*	b	*	50	43	-
	Karlstad ...	29.33	49	SSW	4	o	29.48	+.13	47	44	-1	SW	6	c	*	o	*	*	*	0.08
	Bodo	29.57	31	E	4	b	29.65	+.14	35	33	-1	E	5	b	2	b	*	39	31	-
	Christiansund ...	29.15	45	ESE	2	c	29.23	+.06	46	44	+2	NNW	2	o	3	c	*	46	44	-
	Skudesnaes ...	29.17	48	SW	9	r	29.46	+.33	47	46	-4	NNW	9	o	5	r	*	52	46	*
	Færder (Christiania Fjord)	29.27	49	SSW	6	o	29.39	+.13	49	46	0	SW	4	c	5	o	*	50	48	0.12
	Skagen (The Scaw)	29.45	50	NNW	4	bc	29.61	+.27	46	44	-5	NNW	4	bc	0	bc	*	54	46	0.12
	Fano	29.59	50	SW	6	c	29.77	+.35	48	46	-3	NNW	4	c	*	c	*	52	48	0.16
	Sumburgh Head	29.04	46	NW	4	r	29.43	+.61	46	45	-3	W	4	c	6	o,p	*	51	44	0.17
	Stornoway ...	29.41	42	WNW	4	r	29.46	+.33	47	45	+1	NNW	4	o	4	p.c.r	4.1	50	39	0.10
	Wick	29.30	42	NW	6	c	29.52	+.57	42	40	-5	SW	3	bc	3	c	*	52	38	0.05
	Nairn	29.41	42	W	2	bc	29.56	+.49	43	41	-5	N	1	bc	1	bc	*	48	38	0.01
	Aberdeen ...	29.42	43	NNW	2	b	29.66	+.56	40	38	-6	SW	3	bcw	2	bcq,b	2.8	51	35	-
British Islands	Leith	29.48	47	W	1	b	29.70	+.53	46	43	-3	NNW	3	bc	*	b	*	54	42	-
	Shields	29.58	47	NNW	3	b	29.81	+.59	41	40	-8	SW	2	bmw	2	r.c.b	*	51	39	0.02
	Spurn Head ...	29.65	48	NNW	5	b	29.88	+.51	46	44	-5	SW	3	bw	3	cp.b	*	52	42	0.04
	York	29.62	46	W	2	b	29.86	+.51	40	39	-9	S	1	b	*	r.b	1.7	51	38	0.15
	Loughborough ...	29.72	44	NNW	2	b	29.94	+.44	34	33	-12	E	1	bf	*	bc c.bf	*	56	32	-
	Ardrossan ...	29.55	50	W	6	bcqp	29.72	+.42	50	49	+1	SSW	5	c.q.p	4	c q p	*	51	46	0.05
	Malin Head ...	29.59	46	NW	5	cpq	29.64	+.28	45	45	-3	SW	5	c.r.q.p	4	c r q	*	50	44	0.06
	Belmullet ...	29.77	47	W	3	b	29.73	+.17	52	50	+4	NNW	4	r	*	cp.b	*	50	44	0.12
	Donaghadee ...	29.65	46	W	3	bc	29.77	+.37	43	42	-2	SW	3	bc	1	bc	*	52	36	-
	Liverpool (Bidston)	29.70	45	W	4	c	29.89	+.46	45	42	-2	NNW	3	b	3	cp	*	50	42	0.26
	Holyhead ...	29.70	49	W	4	bc	29.86	+.37	49	46	+1	NNW	3	bc	2	c.bc	*	52	45	-
	Parsonstown ...	29.79	41	SE	1	b	29.84	+.24	42	41	+2	E	0	b	*	b	6.4	53	37	0.01
	Valencia ...	29.82	51	W	4	c	29.87	+.20	51	49	+1	S	2	o	5	bcq.c	4.4	53	47	0.02
	Roche's Point ...	29.81	48	NNW	3	b	29.91	+.25	46	44	-1	W	2	bc	3	b	*	52	40	-
	Pembroke (St. Ann's Hd.)	29.64	50	NW	5	bc	29.95	+.36	53	49	+2	W	4	bc	4	bc	6.0	53	42	0.05
	Scilly	29.81	53	NW	4	cp	29.98	+.30	54	49	+1	W	3	cp	4	cp	6.0	57	48	0.16
	Prawle Point ...	29.83	48	W	3	c	30.01	+.34	47	45	-3	NW	3	bc	2	cp.bc	*	56	42	0.01
	Jersey (St. Aubin's)	29.82	54	WNW	4	bcp	30.02	+.31	48	46	-7	NW	3	bcp	3	cqp	*	59	45	0.16
	Hurst Castle ...	29.80	47	NW	1	bc	29.99	+.35	41	40	-11	WNW	1	bm	1	c.bc	*	58	39	-
	Dungeness ...	29.75	50	NNW	2	b	29.96	+.35	38	37	-16	WNW	1	m	1	b	*	59	38	-
	North Foreland	29.76	50	NNW	3	bc	29.92	+.34	42	41	-8	NNW	2	b	2	bc	*	57	39	-
	London (Brixton) ...	29.77	45	W	2	bm	29.98	+.31	38	38	-10	NNW	1	bfw	*	bc.bwv	5.4	57	35	-
	Oxford	29.82	44	W	2	b	29.99	+.40	36	36	-11	NNW	1	bf	*	b,bf	*	54	35	-
	Cambridge ...	29.75	46	NNW	2	c	29.97	+.42	36	36	-11	SW	1	bm	*	c	?	57	33	-
	Yarmouth ...	29.67	51	NNW	3	bc	29.91	+.42	40	39	-9	NNW	3	bm	3	bc	*	55	36	-
Germany & Holland	Cuxhaven ...	29.64	52	SW	4	b	29.85	+.31	46	45	-4	SW	2	c	*	b	*	57	45	-
	Berlin	29.69	52	SW	3	c	29.93	+.16	48	47	0	SW	1	o	*	c	*	59	45	-
	Wiesbaden ...	*	*	*	*	*	29.94	+.12	48	46	+4	SW	1	o	*	*	*	55	44	-
	Munich... ..	29.95	50	SE	2	bc	29.90	-.02	47	47	-1	E	1	r	*	bc	*	61	45	0.08
	The Helder ...	29.68	53	NNW	4	bc	29.89	+.37	48	46	-8	NNW	3	r	2	bc	*	57	48	0.04
Belgium.	Brussels ...	*	*	*	*	*	29.99	+.27	40	40	-10	SSE	1	b	*	o	*	57	39	0.16
	Cape Gris Nez	?	55	W	4	c	?	?	52	46	-3	NW	1	bc	1	c	*	55	46	-
	Paris	29.87	51	SW	1	o	29.95	+.17	39	39	-11	SSE	1	b	*	o	*	61	37	-
	Brest	29.90	54	NW	2	bc	30.01	+.29	52	50	-2	NW	2	bc	3	bc	*	57	46	-
	Lorient... ...	29.89	55	NW	4	bc	30.06	+.31	50	48	-5	NW	1	b	5	bc	*	61	48	0.04
France	Rochefort ...	29.91	58	NW	3	c	30.04	+.21	48	46	-9	N	3	bc	*	o,c	*	?	45	0.12
	Belfort	29.87	52	W	2	c	29.88	+.03	48	48	-3	E	0	b	*	c	*	58	47	0.28
	Lyons	29.90	53	E	0	r	29.93	+.05	50	50	-4	NW	2	r	*	r	*	59	50	0.32
	Nice	29.88	59	E	2	b	29.75	-.19	56	55	-1	E	0	r	4	b	*	68	55	3.11
	Perpignan ...	29.84	59	SW	1	o	29.92	+.06	57	52	+5	NW	3	o	*	o	*	66	52	-
	Biarritz ...	29.89	59	NW	3	o	30.02	+.20	53	52	-2	N	2	r	5	o	*	64	52	1.50
Peninsula	Corunna ...																*			
	Lisbon	30.10	56	N	3	b	30.17	+.21	56	51	0	NNW	5	b	*	b	*	65	54	-
	Azores (P. Delgada)	30.32	59	N	1	bc	30.20	-.03	61	55	+3	NNW	1	bc	3	bc	*	66	57	-

For Explanation of Columns, see bottom of last page. † *Received too late for Insertion in Charts on next page.*

NOTE: *The Sunshine for London given in this Table is now recorded on the tower of the Wesleyan Training College, Westminster.*

Bright Sunshine yesterday Southport 3.2. hrs;

WEATHER CHARTS

FOR Tuesday, 1st November, 1898

BAROMETER, WIND AND SEA.

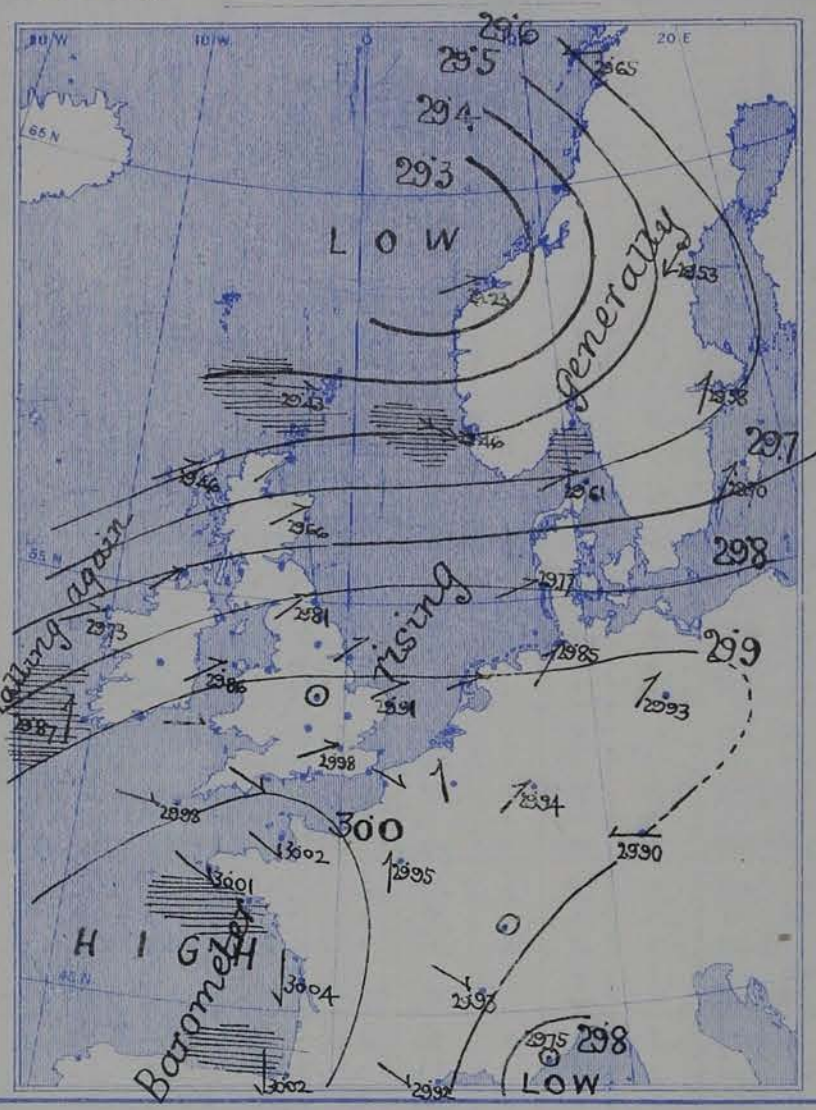
BAROMETER—Isobars are drawn for each tenth of an inch.

WIND—Arrows shew Directions and Force, flying with the wind.

Force above 10 ⟶⟶ ; Force 5 to 7 ⟶ ; } Calm ⊙

Force 8 to 10 ⟶ ; Force 1 to 4 ⟶ ; }

SEA—Rough ▤ ; High ▩

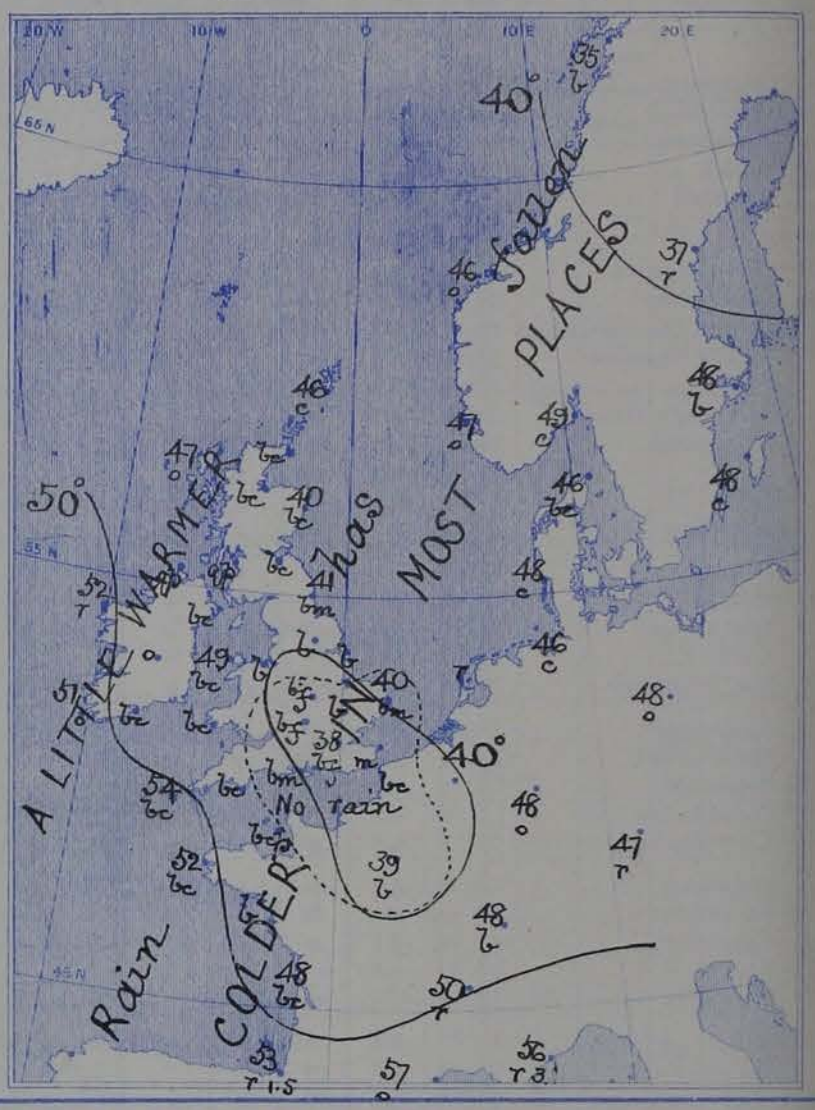


TEMPERATURE & WEATHER.

TEMPERATURE—Isotherms are drawn for each 10°.

WEATHER—Shown by Letters of the Beaufort Scale.

RAINFALL—A dotted line separates areas where rain has fallen from those without rain. The fall in past 24 hours when exceeding half an inch is shown thus—0·6.



VALUES FOR PRESSURE, TEMPERATURE, RAINFALL, AND BRIGHT SUNSHINE IN THE MONTH OF NOVEMBER.

STATIONS.	PRESSURE AT 8 A.M. Means, 1871—95.	TEMPERATURE OF AIR. 1871-95. Means of				Absolute Extremes.				RAINFALL. Means, 1866—95.	BRIGHT SUNSHINE. Means, 1881—95.	
		Dry Bulb 8 a.m.	Wet Bulb 8 a.m.	Daily Maximum.	Daily Minimum.	Maximum	Years.	Minimum.	Years.		Hours.	Per cent. of possible.
	(Inches.)	°	°	°	°	°		°		(Inches.)		
Sumburgh Head	29·693	42·3	40·6	45·8	38·2	55	1890	21	1875	4·14	—	—
Stornoway	29·703	42·0	41·0	46·4	37·1	56	1881	20	1880	4·80	42·1	18
Wick	29·728	41·6	40·1	46·2	36·4	58	1885, 89	15	1884	2·93	—	—
Nairn	29·743	40·0	38·4	45·7	35·5	61	1885, 94	18	1880	2·14	—	—
Aberdeen	29·772	40·7	38·9	46·3	36·7	62	1872, 89	15	1880, 84	3·16	54·7	23
Leith	29·798	41·8	40·1	48·2	37·1	64	1872	18	1885	2·05	—	—
Shields	29·824	42·4	40·8	47·6	38·0	62	1881, 94	20	1880	2·39	—	—
Spurn Head	29·854	43·5	42·2	47·1	40·4	61*	1894, 95	28*	1884	2·28	—	—
York	29·859	40·9	39·7	47·7	36·6	62	1894, 95	14	1871	2·21	39·7	16
Loughborough	29·888	40·7	39·5	48·4	36·7	63*	1881, 93, 94, 95	19*	1887, 93	2·21	—	—
Ardrossan	29·799	43·3	41·6	47·9	39·2	69	1872	21	1880	3·78	—	—
Malin Head	29·755	43·9	42·0	48·0	40·9	—	—	—	—	—	—	—
Belmullet	29·799	45·3	43·3	49·4	41·5	—	—	—	—	5·92	—	—
Donaghadee	29·819	43·4	42·3	48·5	39·4	60	1894	27	1878, 83	3·10	—	—
Holyhead	29·845	45·9	44·2	49·8	42·9	62	1881	29	1880	3·96	—	—
Liverpool	29·862	42·7	40·9	48·0	39·7	63	1872	22	1880	2·81	—	—
Parsonstown	29·852	41·8	40·3	49·1	37·0	62	1874	20	1890	2·86	63·1	25
Valencia	29·867	47·4	45·5	52·3	42·9	63	1881	27	1890	5·63	63·8	25
Roche's Point	29·869	46·2	44·6	51·2	42·0	61	1875	27	1890	4·79	—	—
Pembroke	29·871	47·1	45·4	50·3	43·6	58	1884, 95	28	1890	4·04	58·8	23
Scilly	29·898	50·1	48·1	52·6	46·6	60	1875, 81	29	1890	3·80	—	—
Prawle Point	29·917	46·4	44·9	51·2	42·1	61*	1881	19*	1890	3·26	—	—
Jersey	29·937	48·0	46·0	52·3	44·3	64	1874, 81	16	1890	4·19	70·9	26
Hurst Castle	29·912	45·3	44·3	50·7	41·0	66	1874	20	1890	3·11	—	—
Dover	29·904	44·7	43·3	49·7	40·9	61	1895	17	1890	3·30	—	—
LONDON	29·910	42·5	41·1	49·6	38·3	65	1894	19	1879	2·31	29·5†	11†
Oxford	29·908	41·4	40·2	48·5	37·7	68	1881	19	1871, 87	2·42	55·4	22
Cambridge	29·901	41·0	40·1	48·9	36·0	65	1895	15	1890	2·07	61·7	24
Yarmouth	29·879	43·4	42·2	47·7	39·2	60	1895	23	1890	2·92	—	—

* Extremes of temperature at these Stations are from observations made during the 15 years—1881-95. † The Sunshine values are for Westminster.

GENERAL SITUATION AT 8 A.M.

PRESSURE

Highest 30.1 ins. and upwards over Portugal; 30.0 ins. and upwards in an anticyclone extending thence over the Bay of Biscay and the W^rn. parts of France & the English Channel.
Lowest 29.3 ins. and less in a depression lying off the west of Norway.
Gradients moderate over the northern, but slight in the southern, parts of our area.
Barometer rising over W^rn. Europe as a whole, but beginning to fall again on our own extreme northwest coasts.

TEMPERATURE

Highest 57° at Perpignan, 56° at Nice and Lisbon, 54° at Scilly, and 53° at Pembroke and Biarritz.
Lowest (1) 34° at Loughborough, 36° at Oxford and Cambridge, and 38° in London and at Dungeness; (2) 35° at Bodo, and 37° at Hernösand.
Frost occurred last night over the inland parts of England, the lowest temperatures reported being:- (1) In the screen 32° at Loughborough, and 33° at Cambridge; (2) On the grass 26° in London, and 27° at Loughborough.

WIND

SW^ly. or W^ly. over northwestern Europe as a whole; light or moderate in force in our Islands, but strong in the south of Scandinavia, with a strong gale from WNW. at Skudesnaes; strong from E. at Bodo.
Light from the NW^rn. over the English Channel and the greater part of France.

WEATHER

Fine over the greater part of our Islands, but squally and showery on our extreme NW. coasts.
Fine over the northern parts of France, but rather changeable at the Continental stations generally, with rain in the south of France as well as at Munich, the Helder & Hernösand.
A little rain fell yesterday in the W^rn. and N^rn. parts of the United Kingdom, as well as in Denmark and Sweden, and snow at Hernösand. Heavy rain has again fallen in the S. of France - as much as 3.1 ins. at Nice (where thunder occurred), and 1.5 in. at Biarritz.

SEA

Rough at Sumburgh Hd. and rather rough off the S. of Norway, as well as at Valencia (Ireland) and in the Bay of Biscay.

PROBABLE CHANGES IN SYSTEM NOW PREVALENT

A new depression appears to be approaching our extreme NW. coasts, and increasing SW^ly. winds are probable in the W. and N. generally, with raining weather. The change may possibly extend later to our S^rn. districts.

FORECASTS

For the 24 hours ending at NOON on 2^ND. NOVEMBER 1898

DISTRICTS.		FORECASTS.
0	SCOTLAND NORTH	SW^ly. to S^ly. winds, freshening considerably; fair at first, some rain later.
1	SCOTLAND EAST	
2	ENGLAND N.E.	SW^ly. winds, freshening; fair at first, showery later.
3	ENGLAND EAST	SW^ly. winds, light or moderate; fine at first cloudy later, possibly some showers.
4	MIDLAND COUNTIES	
5	ENGLAND SOUTH	
6	SCOTLAND WEST	S^ly. and SW^ly. winds increasing in force; dull, some rain.
7	ENGLAND N.W.	Same as No. 2.
8	ENGLAND S.W.	W^ly. to SW^ly. winds, freshening; fair at first, showery later.
9	IRELAND NORTH	Same as No. 6.
10	IRELAND SOUTH	
	WARNINGS	None issued.

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

YESTERDAY'S 2 P.M. REPORTS.

	BAR.	THER. Dry.	THER. Wet.	WIND. Direc.	F.	WEA.	SEA.
Skudesnaes ...	29.12	51	49	SSE	6	r	4
Sumburgh Head	28.90	51	51	Z	0	o	5
Stornoway	29.30	50	45	nw	5	c	5
Aberdeen	29.27	49	44	w	6	bcq	4
Shields	29.45	50	47	wsw	3	c	2
Ardrossan	29.46	49	48	w	5	cqp	4
Malin Head ...	29.52	49	46	nnw	5	c	4
Belmullet	29.72	48	44	nw	3	cp	*
Holyhead	29.64	51	48	w	5	c	4

	BAR.	THER. Dry.	THER. Wet.	WIND. Direc.	F.	WEA.	SEA.
Valencia	29.76	51	47	w	5	bcq	6
Scilly	29.78	54	53	wnw	4	cp	5
Jersey	29.78	58	52	w	5	cp	4
Hurst Castle ...	29.71	57	53	w	3	c	2
Dungeness ...	29.67	58	53	wsw	4	b	3
North Foreland	29.68	56	50	wnw	3	bc	2
London (Westminster)	29.68	56	50	sw	3	bc	#
Yarmouth ...	29.60	55	49	wsw	4	bc	3
Rochefort ...	29.87	63	57	sw	2	0	*

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

Weather in morning fine over the S^w. parts of our Islands, and also over the Netherlands, Germany and the N. of France. Cloudy or dull in nearly all other parts of Europe, with rain at several of the N^w. stations in our Islands and the Continent, as well as over W^n. and central France, and at Lisbon; fog very general in Austria. Improvement taking place later in the N. of England, but weather remaining squally and rainy on our extreme N. and NW. coasts. Heavy rain falling in the extreme S. of France,—as much as 2.1 ins. at Nice, where thunder occurred.

Temperature fallen in most of the W^n. and N^w. countries. Morning readings highest 72° at Algiers, 71° at La Calle, and 68° at Brindisi; above 60° at most of the Mediterranean and Adriatic stations. Lowest 32° at Haparanda, 33° at Archangel, and 35° at Ulealeo; below 40° in several parts of Russia and the N. of Scandinavia. Daily maxima very little above 50° in the W. and N. of our Islands, but exceeding 55° over central and S^n. England; exceeding 60° in France, and reaching 68° at Nice. Ground frost occurring over central England at night.

Wind strong from the W^wd. or NW^nd. on our own western coasts, and blowing a gale from N. at Wick; moderate to fresh from the SW^wd. over the east of Gt. Britain, and also over the greater part of northern and central Europe, but E^ly. in the west of Norway. Light from the S^wd. in the south of France, and from the SE^wd. or E^nd. over Italy and the Adriatic; calm in Austria; S^ly. or SE^ly. in the south of Russia.

Barometer highest 30.3 ins. and upwards in the S. of Russia; 30.1 ins. and upwards in an anticyclone covering SE^n. Europe generally. Lowest 28.9 ins. and less in a rather deep depression, with its centre between the Orkneys and Shetlands; 29.3 ins. and less in a small shallow system over Lapland. Former disturbance travelling N^wds. later, and barometer rising over W^n. Europe generally.

EXPLANATION OF THE 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.

N.B.—The morning observations are now made at 8 a.m. in the British Islands, Belgium, Germany, Sweden, and Norway, at 7 a.m. in France, and at 9 a.m. in Spain and Portugal. The evening observations are made at 8 p.m. at Oxford, but at 6 p.m. at the other stations in the British Islands and in France; at 8 p.m. in Sweden, Norway and Germany. The time at each Station is the Standard Time of its Country.

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DAILY WEATHER REPORT

for 8 a.m. on Wednesday, 2nd November, 1898.

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

	STATIONS.	YESTERDAY EVENING. (See note at bottom of last page.) Barom. At 32° and M.S.L.	Temp. Dry Bulb.	Wind. Direc.	Wind. Force (0 to 12.)	Weather	THIS MORNING. (See note at bottom of last page.) Barometer. At 32° Fahr. and M. S. L.	Barometer. Change since Yesterday.	Temperature. Dry Bulb.	Temperature. Wet Bulb.	Temperature. Change since Yesterday.	Wind. Direc.	Wind. Force (0 to 12.)	Weather.	Sea (0 to 9.)	PAST 24 HOURS. Weather.	Hours of Bright Sunshine.	Temp. Max.	Temp. Min.	Rainfall
		Ins.	°				Ins.	Ins	°	°	°							°	°	Ins.
Scandinavia	Haparanda ...	29.99	30	E	6	o	29.89		27	26		NE	2	o	*	o	*	37	27	0.04
	Hernösand ...	29.68	37	N	4	o	29.78	+.25	35	33	- 2	W	2	o	*	o	*	39	30	0.24
	Stockholm ...	29.77	47	NNW	2	o	29.88	+.30	42	41	- 6	W	4	b	*	o	*	52	42	-
	Wisby	29.93	47	W	4	b	30.02	+.32	45	43	- 3	WNW	1	b	*	b	*	52	45	-
	Karlstad ...	29.75	45	SW	14	b	29.90	+.42	41	40	- 6	SW	2	b	*	b	*	*	*	-
	Bodö	29.74	37	E	5	b	29.73	+.08	36	32	+ 1	E	6	o	2	b	*	37	34	-
	Christiansund ...	29.62	46	NNW	3	c	29.46	+.23	45	40	- 1	ESE	4	bc	3	c	*	48	43	0.20
	Skudesnaes ...	29.80	49	SSW	8	c	29.58	+.12	50	49	+ 3	SSE	9	r	7	c	*	50	43	*
	Færder (Christiania Fjord)	29.76	48	NNW	6	b	29.86	+.47	49	46	- 2	SSW	4	c	3	b	*	50	46	-
	Skagen (The Scaw)	29.90	47	NNW	3	bc	29.95	+.34	45	43	- 1	SW	3	bc	0	bc	*	52	41	-
	Fanö	30.01	46	W	2	b	30.02	+.25	48	47	- 0	NNW	4	b	*	b	*	52	46	-
	Sumburgh Head	29.45	49	SW	4	o	28.77	-.66	51	51	+ 5	S	6	r	6	c,o	*	51	46	0.43
	Stornoway ...	29.38	47	NNW	3	r	28.86	-.60	48	47	+ 1	W	3	r	3	op,r	0.0	52	44	1.50
	Wick	29.47	48	SW	3	o	28.97	-.55	51	50	+ 9	SW	1	r	3	ou	*	52	40	0.40
	Nairn	29.52	47	W	3	c	28.92	-.64	55	54	+ 12	W	3	r	1	c	*	55	41	0.12
	Aberdeen ...	29.62	47	SSW	3	og	29.04	-.62	54	52	+.14	SSW	6	ogr	6	c,ogq	2.6	54	40	0.08
British Islands.	Leith	29.67	49	SW	2	bc	29.09	-.61	57	54	+ 11	SSW	6	r	*	bc	*	57	43	0.14
	Shields	29.79	49	SW	3	c	29.36	-.45	53	51	+ 12	S	5	op	2	bc m,c	*	55	41	-
	Spurn Head ...	29.90	49	SSW	3	c	29.63	-.25	51	50	+ 5	SSW	6	ru	5	c	*	53	44	-
	York	29.89	48	SSW	1	bc	29.60	-.26	51	49	+ 11	S	3	r	*	c,bc	1.8	52	39	0.05
	Loughborough ...	29.97	48	SW	2	oc	29.74	-.20	52	50	+ 18	SSW	5	or	*	bc c.og	*	54	34	-
	Ardrossan ...	29.54	52	SSW	14	rm	29.12	-.60	55	55	+ 5	SSW	7	r	6	cm, rm	*	55	49	1.24
	Malin Head ...	29.44	55	S	6	rm	29.05	-.59	55	55	+ 10	SW	7	r	6	omgrm	*	55	45	0.45
	Belmullet ...	29.59	54	NNW	6	om	29.24	-.49	56	55	+ 4	NNW	6	o	*	om	*	56	50	0.32
	Donaghadee ...	29.68	50	SW	4	r	29.23	-.54	57	56	+ 14	SW	8	o	6	r	*	57	40	0.38
	Liverpool (Bidston)	29.87	49	S	3	b	29.53	-.36	56	52	+11	S	6	r	5	b,p	*	56	45	0.05
	Holyhead ...	29.81	54	SW	6	cp	29.44	-.42	55	55	+ 6	SW	8	rq	6	c,op	*	56	46	0.52
	Parsonstown ...	29.78	53	SW	2	o	29.37	-.47	58	51	+ 16	SW	2	oru	*	o	0.5	58	42	0.05
	Valencia ...	29.70	56	S	4	qr	29.48	-.39	58	51	+ 7	SW	6	ogm	6	oq	0.0	58	50	0.24
	Roche's Point ...	29.82	56	SW	5	oqr	29.53	-.38	57	51	+ 11	NNW	6	r	5	o,r	*	57	46	0.50
	Pembroke (St. Ann's Hd.)	29.91	55	NNW	5	c	29.59	-.36	56	56	+ 3	SW	8	rq	6	c	1.2	56	52	0.27
	Scilly	29.98	55	SW	4	o	29.76	-.22	57	56	+ 3	SSW	8	m	5	c,o	6.6	59	47	0.03
	Prawle Point ...	30.06	53	SW	4	c	29.96	-.05	55	54	+ 8	SW	8	oqr	6	c	*	56	46	-
	Jersey (St. Aubin's)	30.10	54	WNW	3	bc	30.06	+.04	55	52	+ 7	SSW	6	oq	5	bc,bc	*	60	46	0.01
	Hurst Castle ...	30.05	52	NNW	3	c	29.94	-.05	57	55	+ 16	SW	5	oc	3	bc c	*	58	40	-
	Dungeness ...	30.04	48	NNW	2	b	29.99	+.03	58	52	+ 17	SSW	6	c	4	b	*	59	36	-
Germany & Holland.	North Foreland	30.08	47	NNW	2	b	30.01	+.09	53	50	+ 11	S	4	c	2	b	*	54	41	-
	London (Brixton) ...	30.06	46	SSW	1	bc	29.94	-.04	53	50	+ 15	S	5	o	*	bc,bj,b	3.0	57	37	-
	Oxford	30.03	45	S	2	b	29.84	-.15	53	50	+ 17	SSW	5	oqu	*	b	*	54	36	-
	Cambridge ...	30.03	43	SW	1	b	29.86	-.11	51	49	+ 15	SSW	4	o	*	b	1.5	51	34	-
	Yarmouth ...	30.00	49	SW	2	bc	29.90	-.01	51	49	+ 11	SW	5	c	4	b,bc	*	51	39	-
	Cuxhaven ...	29.97	48	NNW	1	b	30.10	+.25	38	37	- 8	SSW	3	b	*	b	*	52	37	-
	Berlin	30.03	50	calm	0	o	30.23	+.30	40	40	- 8	calm	0	f	*	o	*	54	39	-
	Wiesbaden ...	*	*	*	*	*	30.25	+.31	38	36	- 10	NW	1	b	*	*	*	54	3	-
	Munich	30.00	47	W	5	r	30.23	+.33	44	44	- 3	NW	2	o	*	r	*	50	43	0.41
	The Helder ...	30.02	51	W	1	b	30.00	+.11	44	43	- 4	SSW	2	b	2	b	*	55	30	-
Belgium. France &	Brussels ...	*	*	*	*	*	30.18	+.19	40	?	0	SSE	2	b	*	b	*	55	36	-
	Cape Gris Nez ...	?	54	WNW	2	bc	?	?	53	50	+ 1	SW	6	c	6	bc	*	52	48	0.12
	Paris	30.12	45	calm	0	b	30.21	+.26	32	32	- 7	S	1	f	*	b	*	56	32	-
	Brest	30.10	56	NNW	3	c	30.00	-.01	57	54	+ 5	SSW	4	c	4	c	*	59	48	-
	Lorient	30.14	55	NNW	3	b	30.10	+.04	57	57	+ 7	SW	5	c	5	b	*	60	48	-
	Rochefort ...	30.18	55	NW	3	b	30.24	+.20	50	48	+ 2	S	3	bc	*	b	*	61	45	-
	Belfort	30.06	47	calm	0	r	30.21	+.33	44	43	- 4	NE	1	f	*	r	*	53	43	0.67
	Lyons	30.09	50	NNW	2	r	30.22	+.29	44	42	- 6	N	2	b	*	r	*	54	42	0.16
	Nice	29.83	57	calm	0	f	29.97	+.22	54	53	- 2	ENE	5	c	3	f	*	61	52	0.67
	Perpignan ...	30.10	57	NW	2	o	30.19	+.27	53	45	- 4	NW	2	b	*	o	*	63	49	-
	Biarritz ...	30.13	53	N	3	r	30.20	+.18	50	46	- 3	ESE	3	bc	5	T	*	63	48	0.51
Peninsula.	Corunna ...																*			
	Lisbon	30.25	55	N	4	b	30.30	+.13	56	50	0	N	4	b	*	b	*	61	52	-
	Azores (P. Delgada)	30.34	64	NNW	2	c	30.30	+.10	63	62	+ 2	WNW	1	o	2	c	*	68	57	0.04

For Explanation of Columns, see bottom of last page. † *Received too late for Insertion in Charts on next page.*

NOTE: *The Sunshine for London given in this Table is now recorded on the tower of the Wesleyan Training College, Westminster.*

Bright Sunshine yesterday Southport 3.5 hrs;

WEATHER CHARTS

FOR Wednesday, 2nd November, 1898

BAROMETER, WIND AND SEA.

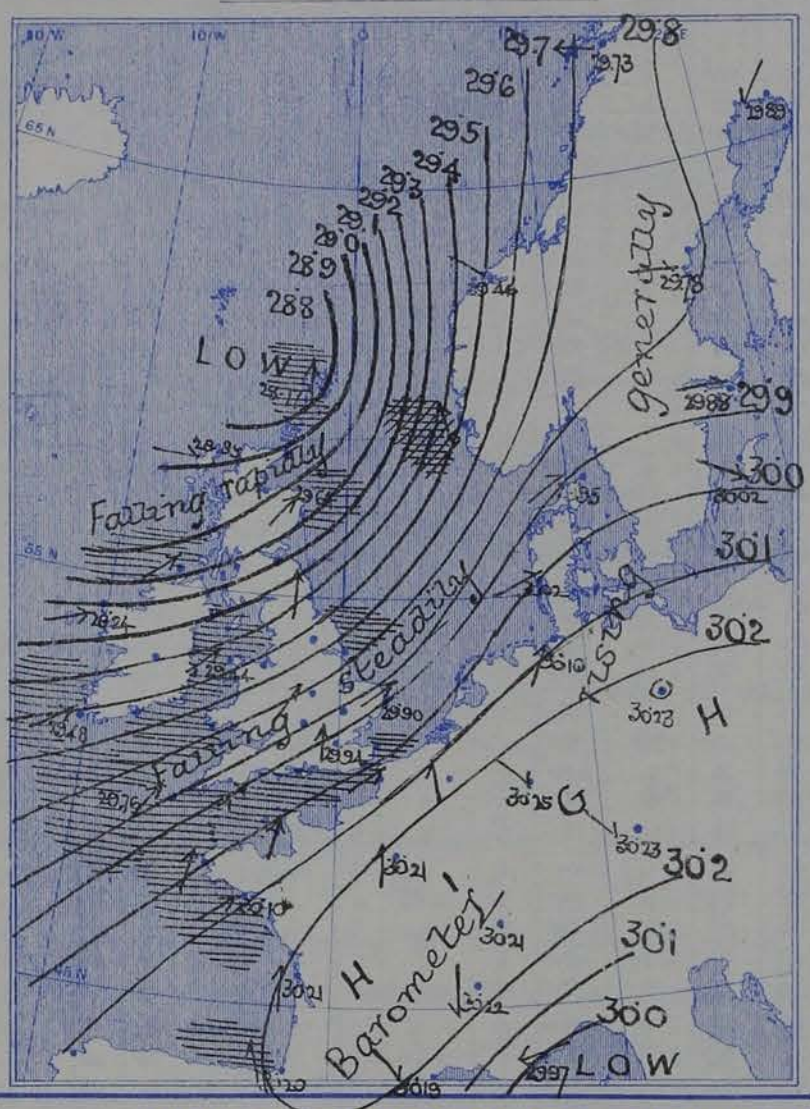
BAROMETER—Isobars are drawn for each tenth of an inch.

WIND—Arrows shew Directions and Force, flying with the wind.

Force above 10 ⟶ ; *Force 5 to 7* ⟶ ; *Force 1 to 4* ⟶ ; Calm ⊙

Force 8 to 10 ⟶ ;

SEA—Rough ; *High*

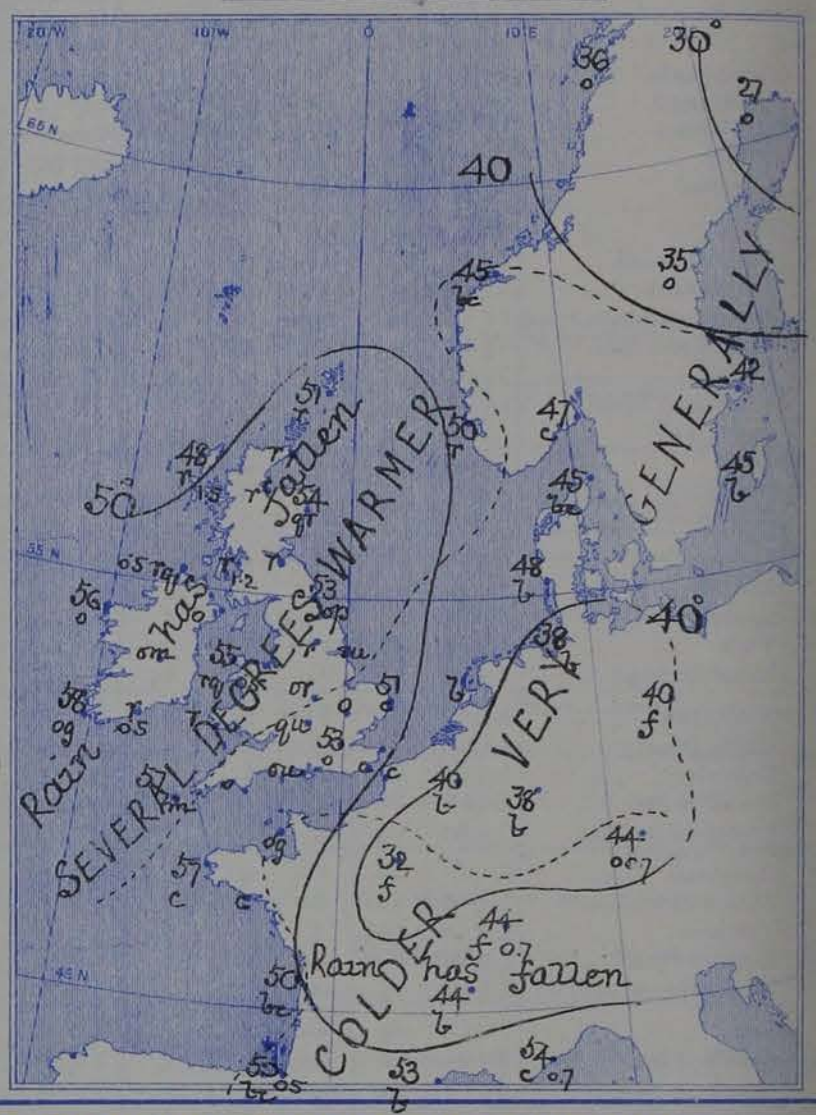


TEMPERATURE & WEATHER.

TEMPERATURE—Isotherms are drawn for each 10°.

WEATHER—Shown by Letters of the Beaufort Scale.

RAINFALL—A dotted line separates areas where rain has fallen from those without rain. The fall in past 24 hours when exceeding half an inch is shown thus—0·6.



VALUES FOR PRESSURE, TEMPERATURE, RAINFALL, AND BRIGHT SUNSHINE *IN THE MONTH OF NOVEMBER.*

STATIONS.	PRESSURE AT 8 A.M. Means, 1871—95.	TEMPERATURE OF AIR. 1871-95. Means of				Absolute Extremes.				RAINFALL. Means, 1866—95.	BRIGHT SUNSHINE. Means, 1881—95.	
		Dry Bulb 8 a.m.	Wet Bulb 8 a.m.	Daily Maximum.	Daily Minimum.	Maximum	Years.	Minimum.	Years.		Hours.	Per cent. of possible.
	(*Inches.*)	°	°	°	°	°		°		(*Inches.*)		
Sumburgh Head	29 · 693	42 · 3	40 · 6	45 · 8	38 · 2	55	1890	21	1875	4 · 14	—	—
Stornoway	29 · 703	42 · 0	41 · 0	46 · 4	37 · 1	56	1881	20	1880	4 · 80	42 · 1	18
Wick	29 · 728	41 · 6	40 · 1	46 · 2	36 · 4	58	1885, 89	15	1884	2 · 93	—	—
Nairn	29 · 743	40 · 0	38 · 4	45 · 7	35 · 5	61	1885, 94	18	1880	2 · 14	—	—
Aberdeen	29 · 772	40 · 7	38 · 9	46 · 3	36 · 7	62	1872, 89	15	1880, 84	3 · 16	54 · 7	23
Leith	29 · 798	41 · 8	40 · 1	48 · 2	37 · 1	64	1872	18	1885	2 · 05	—	—
Shields	29 · 824	42 · 4	40 · 8	47 · 6	38 · 0	62	1881, 94	20	1880	2 · 39	—	—
Spurn Head	29 · 854	43 · 5	42 · 2	47 · 1	40 · 4	61*	1894, 95	28*	1884	2 · 28	—	—
York	29 · 859	40 · 9	39 · 7	47 · 7	36 · 6	62	1894, 95	14	1871	2 · 21	39 · 7	16
Loughborough	29 · 888	40 · 7	39 · 5	48 · 4	36 · 7	63*	1881, 93, 94, 95	19*	1887, 93	2 · 21	—	—
Ardrossan	29 · 799	43 · 3	41 · 6	47 · 9	39 · 2	69	1872	21	1880	3 · 78	—	—
Malin Head	29 · 755	43 · 9	42 · 0	48 · 0	40 · 9	—	—	—	—	—	—	—
Belmullet	29 · 799	45 · 3	43 · 3	49 · 4	41 · 5	—	—	—	—	5 · 92	—	—
Donaghadee	29 · 819	43 · 4	42 · 3	48 · 5	39 · 4	60	1894	27	1878, 83	3 · 10	—	—
Holyhead	29 · 845	45 · 9	44 · 2	49 · 8	42 · 9	62	1881	29	1880	3 · 96	—	—
Liverpool	29 · 862	42 · 7	40 · 9	48 · 0	39 · 7	63	1872	22	1880	2 · 81	—	—
Parsonstown	29 · 852	41 · 8	40 · 3	49 · 1	37 · 0	62	1874	20	1890	2 · 86	63 · 1	25
Valencia	29 · 867	47 · 4	45 · 5	52 · 3	42 · 9	63	1881	27	1890	5 · 63	63 · 8	25
Roche's Point	29 · 869	46 · 2	44 · 6	51 · 2	42 · 0	61	1875	27	1890	4 · 79	—	—
Pembroke	29 · 871	47 · 1	45 · 4	50 · 3	43 · 6	58	1884, 95	28	1890	4 · 04	58 · 8	23
Scilly	29 · 898	50 · 1	48 · 1	52 · 6	46 · 6	60	1875, 81	29	1890	3 · 80	—	—
Prawle Point	29 · 917	46 · 4	44 · 9	51 · 2	42 · 1	61*	1881	19*	1890	3 · 26	—	—
Jersey	29 · 937	48 · 0	46 · 0	52 · 3	44 · 3	64	1874, 81	16	1890	4 · 19	70 · 9	26
Hurst Castle	29 · 912	45 · 3	44 · 3	50 · 7	41 · 0	66	1874	20	1890	3 · 11	—	—
Dover	29 · 904	44 · 7	43 · 3	49 · 7	40 · 9	61	1895	17	1890	3 · 30	—	—
LONDON	29 · 910	42 · 5	41 · 1	49 · 6	38 · 3	65	1894	19	1879	2 · 31	29 · 5†	11†
Oxford	29 · 908	41 · 4	40 · 2	48 · 5	37 · 7	68	1881	19	1871, 87	2 · 42	55 · 4	22
Cambridge	29 · 901	41 · 0	40 · 1	48 · 9	36 · 0	65	1895	15	1890	2 · 07	61 · 7	24
Yarmouth	29 · 879	43 · 4	42 · 2	47 · 7	39 · 2	60	1895	23	1890	2 · 92	—	—

* Extremes of temperature at these Stations are from observations made during the 15 years—1881-95. † The Sunshine values are for Westminster.

GENERAL SITUATION AT 8 A.M.

PRESSURE

Highest 30.2 ins. and upwards in an anticyclone lying over France and Germany.
Lowest 28.8 ins. and less in a large and deep depression with its centre off the N. of Scotland.
Gradients very steep over the N.ⁿ parts of the North Sea, and steep or rather so over almost all other parts of NW.ⁿ Europe.
Barometer falling rapidly in the N. of our Islands and less decidedly in the south, but steady at Valencia (Ireland).

TEMPERATURE

Highest 58° at Parsonstown and Valencia (Ireland) and 57° at Donaghadee, Roche's Pt., Scilly, Brest and Lorient.
Lowest (1) 27° at Haparanda, 35° at Hernösand, and 36° at Bodö; (2) 32° at Paris, and 38° at Cuxhaven and Wiesbaden.
Since yesterday a considerable rise has taken place over the United Kingdom, the change amounting to 16° at Parsonstown, 17° at Oxford, and 18° at Loughborough.

WIND

Strong from the SW.ⁿᵈ over nearly the whole of our Islands, with a gale in the west; light to moderate from the same quarter or from S. over the Netherlands, Denmark & the N. of France.
SE.ʸ or E.ʸ in the west of Norway, with a strong gale at Skudesnaes, W.ʸ in Sweden.
Light from the N.ⁿᵈ or NW.ⁿᵈ over south Germany and the east and south of France.

WEATHER

Dull over the whole of our Islands with rain at all but our S.ᵐ and SE.ᵐ stations.
Fine in the W.ᵐ parts of the Continent generally, but foggy at some of the central stations in France and Germany, and rainy at Skudesnaes.
Since yesterday morning a considerable quantity of rain has fallen at several of our own W.ᵐ and N.ᵐ stations and also in the S.ᵐ parts of France and Germany, the largest amount being 1.5 in. at Stornoway, 1.2 in. at Androssan, and 0.7 in. at Munich, Belfort and Nice.

SEA

Rough or rather so on nearly all coasts, and high at Skudesnaes.

PROBABLE CHANGES IN SYSTEM NOW PREVALENT

The depression in the N. will probably travel away in a N.ʸ or NE.ʸ direction, but a secondary system is apparently advancing over Scotland, so that the gale seems likely to extend shortly to our E.ᵐ and S.ᵐ coasts.

FORECASTS

For the 24 hours ending at NOON on 3RD NOV. 1898

DISTRICTS.	FORECASTS.	DISTRICTS.	FORECASTS.
▼ 0 SCOTLAND NORTH	SW.ʸ to W.ʸ winds increasing to a gale, squally, rainy.	▼ 6 SCOTLAND WEST	SW.ʸ to W.ʸ gales and strong winds, moderating later, squally, showery.
▼ 1 SCOTLAND EAST		▼ 7 ENGLAND N.W.	
▼ 2 ENGLAND N.E.	Same as No. 5.	▼ 8 ENGLAND S.W.	
▼ 3 ENGLAND EAST		▼ 9 IRELAND NORTH	
4 MIDLAND COUNTIES		▼ 10 IRELAND SOUTH	
▼ 5 ENGLAND SOUTH	S.ʸ and SW.ʸ gales moderating later, squally and rainy at first, then fair.	WARNINGS	At 3.50 pm yesterday to districts 6 9 and 10 at 7.10 pm to districts 0, 1, 7 and 8, and at 9.50 am to-day to districts 2 3 and 5. Hoist South Cone.

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

YESTERDAY'S 2 P.M. REPORTS.

	BAR.	THER. Dry.	THER. Wet.	WIND. Direc.	F.	WEA.	SEA.
Skudesnaes ...	29.70	49	46	NNW	6	c	5
Sumburgh Head	29.46	49	46	S	4	c	6
Stornoway	29.44	48	45	NNW	3	o	3
Aberdeen	29.63	47	44	S	4	ogq	3
Shields	29.81	53	48	SW	2	bl m	2
Ardrossan	29.69	52	51	SSW	4	c	3
Malin Head ...	29.60	50	49	SSW	5	o	5
Belmullet	29.65	54	51	SW	5	om	*
Holyhead	29.85	54	51	SW	6	c	4

	BAR.	THER. Dry.	THER. Wet.	WIND. Direc.	F.	WEA.	SEA.
Valencia	29.79	56	54	SSW	1	ogq	6
Scilly	30.00	57	54	SW	4	c	3
Jersey	30.08	57	51	WNW	4	bc	3
Hurst Castle ...	30.09	57	53	SW	1	bc	3
Dungeness ...	30.00	57	51	W	4	b	3
North Foreland	30.02	54	49	WSW	2	b	*
London (Westminster)	30.00	55	48	WNW	2	b	5
Yarmouth ...	29.96	57	46	W	3	b	*
Rochefort ...	30.12	59	57	N	2	bc	*

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

Continental information not yet received.

EXPLANATION OF THE 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.

N.B.—The morning observations are now made at 8 a.m. in the British Islands, Belgium, Germany, Sweden, and Norway, at 7 a.m. in France, and at 9 a.m. in Spain and Portugal. The evening observations are made at 8 p.m. at Oxford, but at 6 p.m. at the other stations in the British Islands and in France ; at 8 p.m. in Sweden, Norway and Germany. The time at each Station is the Standard Time of its Country.

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DAILY WEATHER REPORT

for 8 a.m. on Thursday, 3rd November, 1898.

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

	STATIONS.	YESTERDAY EVENING. (See note at bottom of last page.)					THIS MORNING. (See note at bottom of last page.)									PAST 24 HOURS.				
		Barom.	Temp.	Wind.		Weather	Barometer.		Temperature.			Wind.		Weather.	Sea (0 to 9.)	Weather.	Hours of Bright Sunshine.	Temp.		Rainfall.
		At 32° and M.S.L.	Dry Bulb.	Direc.	Force (0 to 12.)		At 32° Fahr. and M. S. L.	Change since Yesterday.	Dry Bulb.	Wet Bulb.	Change since Yesterday.	Direc.	Force (0 to 12.)					Max.	Min.	
		Ins.	°				Ins.	Ins.	°	°	°							°	°	Ins.
Scandinavia.	Haparanda ...														#		#			
	Hernösand ...														#		#			
	Stockholm ...														#		#			
	Wisby														#		#			
	Karlstad ...														#		#	#	#	
	Bodö																#			
	Christiansund ...																#			
	Skudesnaes ...																#			#
	Færder (Christiania Fjord)	29.29	48	S	9	r	29.14	-.72	48	47	+1	SSW	4	O	5	r	#	48	46	0.47
	Skagen (The Scaw)	29.43	46	SW	8	r	29.24	-.71	51	51	+6	W	4	r	1	r	#	54	45	0.55
	Fanö	29.65	50	SSW	8	0	29.45	-.57	52	52	+4	SSW	8	O	#	O	#	52	48	0.04
	Sumburgh Head	28.78	47	W	4	r	28.86	+.09	43	41	-8	W	4	p	6	r	#	52	40	0.39
	Stornoway ...	28.96	45	WNW	4	O	28.98	+.12	42	39	-6	W	6	O	6	p. or	0.0	49	37	1.60
	Wick	28.96	48	NW	4	O	29.02	+.05	40	38	-11	NW	5	c	2	r. o	#	52	38	0.28
	Nairn	28.99	50	W	3	O	29.12	+.20	40	38	-15	W	2	op	2	op	#	58	37	0.33
	Aberdeen ...	29.03	55	WSW	4	ogq	29.19	+.15	45	40	-9	SW	5	bq	4	oqp. qq	0.2	60	42	0.01
	Leith	29.10	59	SSW	5	r	29.28	+.19	46	43	-11	W	3	r	#	r	#	60	44	0.17
	Shields	29.26	60	SSW	5	O	29.42	+.06	50	47	-3	SW	2	bcp	2	op	#	61	48	0.00
	Spurn Head ...	29.44	56	SSW	7	O	29.52	-.11	52	51	+1	W	4	c	4	or. qv. r	#	60	50	0.28
	York	29.40	56	S	4	rq	29.50	-.10	51	48	0	SW	2	b	#	rq	0.0	61	50	0.24
	Loughborough ...	29.56	58	S	6	O	29.57	-.17	52	51	0	NW	3	ogp	#	or. qp	#	61	52	0.56
British Islands.	Ardrossan ...	29.16	53	WSW	4	d	29.35	+.23	47	46	-8	WSW	7	bcqp	5	r. d	#	55	43	0.34
	Malin Head ...	29.15	51	W	6	oqm	29.29	+.24	46	43	-9	NW	8	c	6	rq. hq	#	55	43	0.18
	Belmullet ...	29.31	56	W	5	oqm	29.52	+.28	48	43	-8	W	7	c	#	om. oqm	#	58	43	0.17
	Donaghadee ...	29.23	58	SSW	4	r	29.46	+.23	46	43	-11	WSW	5	b	3	r	#	59	43	0.10
	Liverpool (Bidston)	29.43	58	SW	7	O	29.56	+.03	51	47	-5	W	6	bc	6	oqp	#	60	49	0.18
	Holyhead ...	29.41	58	SW	8	oqqm	29.59	+.15	50	47	-5	W	7	c	5	oqqm	#	58	47	0.27
	Parsonstown ...	29.38	59	WSW	4	r	29.62	+.25	46	43	-12	SW	1	bc	#	or	0.0	60	45	0.16
	Valencia ...	29.50	59	SW	6	om	29.70	+.25	53	49	-5	NW	6	p	6	ma. mr	0.0	60	51	0.10
	Roche's Point ..	29.54	58	WSW	6	d	29.74	+.21	50	47	-7	W	4	b	4	d	#	60	48	0.15
	Pembroke (St. Ann's Hd.)	29.58	56	SW	7	O	29.70	+.11	51	51	+1	NW	5	og	4	O	0.0	57	52	0.19
	Scilly	29.73	58	SW	4	m	29.77	+.01	56	55	-1	NNW	4	opm	4	m	0.0	61	54	0.14
	Prawle Point ...	29.77	57	SW	8	rf	29.78	-.18	57	57	+2	SW	6	rm	6	rf	#	58	53	0.43
	Jersey (St. Aubin's)	29.94	56	SSW	7	rm	29.87	-.19	60	59	+5	SW	5	orm	5	rm	#	60	53	0.16
	Hurst Castle ...	29.80	57	SSW	8	dq	29.75	-.19	58	57	+1	WSW	6	om	3	rn. dq	#	59	?	0.37
	Dungeness ...	29.84	56	SW	7	oq	29.71	-.28	59	58	+4	SW	9	O	7	0.0q	#	59	55	0.10
	North Foreland	29.89	54	S	6	r	29.71	-.30	55	54	+2	SSW	7	cq	5	o. r	#	55	52	0.22
	London (Brixton) ...	29.77	55	SSW	6	oqr	29.69	-.25	58	57	+5	SSW	4	O	#	orq. bcq	0.0	60	52	0.43
	Oxford	29.67	57	SSW	6	O	29.65	-.19	58	57	+5	SW	5	od	#	oqr	#	61	52	0.21
	Cambridge ...	29.69	56	SW	7	O	29.61	-.25	61	58	+10	SW	6	r	#	or	0.0	61	49	0.17
	Yarmouth ...	29.70	53	SSW	7	oqr	29.57	-.33	59	58	+8	SW	5	qqr	5	oqr	#	59	50	0.09
Germany & Holland.	Cuxhaven ...	29.92	47	SSW	5	O	29.63	-.47	50	48	+12	SSW	8	O	#	O	#	50	37	0.16
	Berlin	30.18	43	NW	3	O	29.97	-.26	42	41	+2	SW	4	b	#	O	#	50	39	-
	Wiesbaden ...	#	#	#	#	#	30.11	-.14	37	36	-1	S	1	o	#	#	#	52	34	-
	Munich	30.27	45	Z	0	O	30.21	-.02	38	38	-6	SW	1	b	#	b	#	48	36	0.04
	The Helder ...																#			
Belgium.	Brussels ...	#	#	#	#	#	29.90	-.28	48	48	+8	SW	5	r	#	O	#	54	40	0.04
	Cape Gris Nez ...						?	?	57	55	+4	?S	7	o	7	r	#	57	50	0.08
	Paris	30.14	49	S	2	bc	30.04	-.17	48	47	+16	SSW	3	r	#	bc	#	57	32	-
	Brest	29.91	57	S	5	fq	29.91	-.09	50	50	-7	WSW	4	fq	6	fq	#	57	48	0.28
	Lorient	30.01	55	SW	6	r	29.97	-.13	59	59	+2	W	4	O	5	r	#	61	48	0.32
France &	Rochefort ...	30.16	57	WSW	3	O	30.12	-.12	55	53	+5	SSW	4	O	#	c. o	#	61	46	-
	Belfort	30.22	49	NE	2	m	30.19	-.02	38	38	-6	Z	0	f	#	m	#	54	33	-
	Lyons	30.24	48	NW	1	O	30.24	+.02	37	37	-7	W	1	b	#	O	#	54	36	-
	Nice	30.12	57	E	5	c	30.14	+.17	55	50	+1	Z	0	c	3	c	#	57	52	-
	Perpignan ...	30.21	51	E	1	b	30.18	-.01	44	39	-9	W	2	b	#	b	#	62	44	-
	Biarritz ...	30.16	55	SE	2	bc	30.08	-.12	55	50	+5	SE	2	O	4	bc	#	61	50	-
Peninsula.	Corunna ...																#			
	Lisbon	30.28	58	Z	0	b	30.23	-.07	58	57	+2	SW	2	f	#	b	#	63	47	0.04
	Azores (P. Delgada)	30.33	64	Z	0	O	30.31	+.01	63	61	0	Z	0	f	2	O	#	70	61	-

For Explanation of Columns, see bottom of last page. † *Received too late for Insertion in Charts on next page.*

NOTE: *The Sunshine for London given in this Table is now recorded on the tower of the Wesleyan Training College, Westminster.*

Bright Sunshine yesterday Southport 0·0 hrs;

WEATHER CHARTS

FOR Thursday, 3rd November 1898

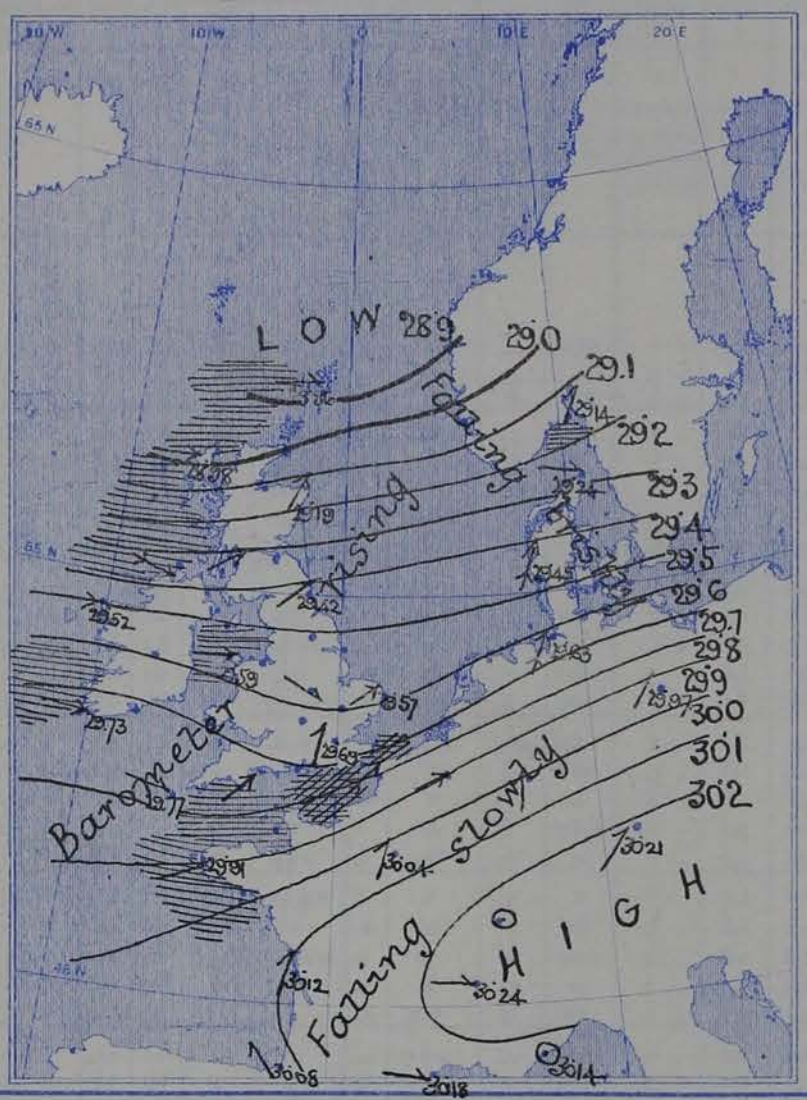
BAROMETER, WIND AND SEA.

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

WIND—Arrows shew Directions and Force, flying with the wind.

Force above 10 ⟶ ; *Force 5 to 7* ⟶ ; *Force 8 to 10* ⟶ ; *Force 1 to 4* ⟶ ; Calm ⊙

SEA—*Rough* ▒ ; *High* ▒

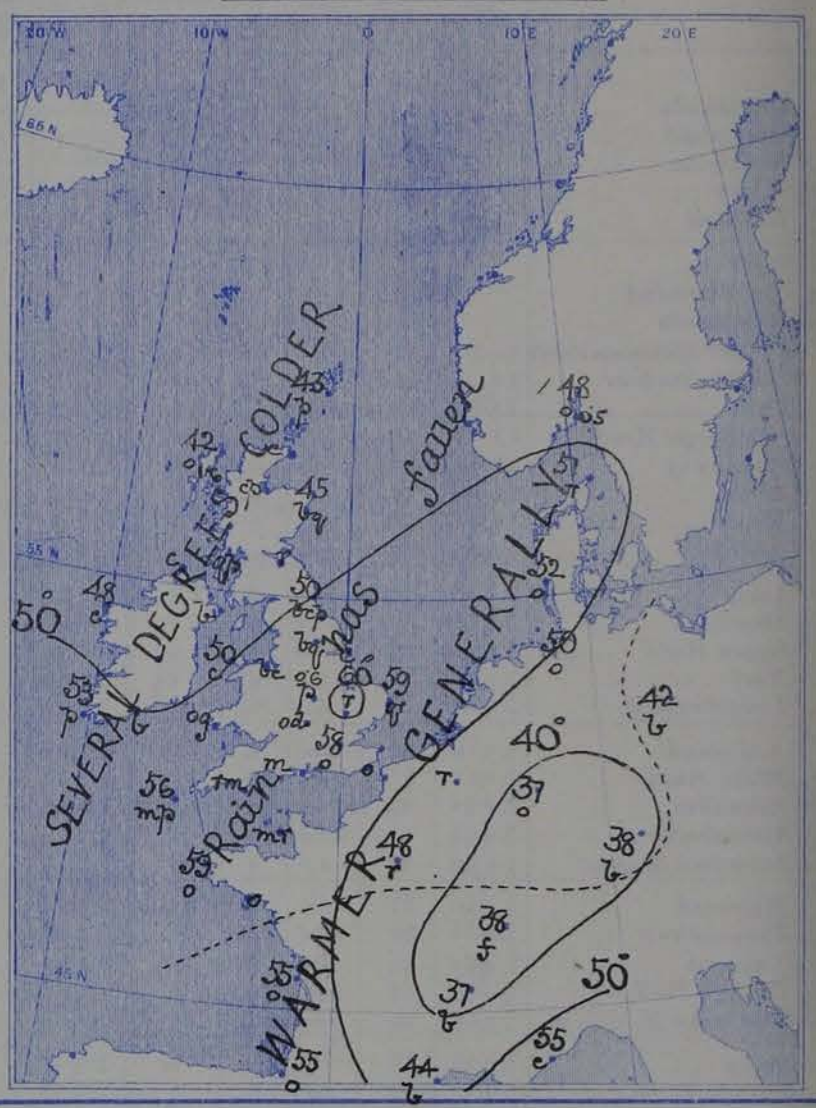


TEMPERATURE & WEATHER.

TEMPERATURE—Isotherms are drawn for each 10°.

WEATHER—Shown by Letters of the Beaufort Scale.

RAINFALL—A dotted line separates areas where rain has fallen from those without rain. The fall in past 24 hours when exceeding half an inch is shown thus—0·6.



VALUES FOR PRESSURE, TEMPERATURE, RAINFALL, AND BRIGHT SUNSHINE
IN THE MONTH OF NOVEMBER.

STATIONS.	PRESSURE AT 8 A.M. Means, 1871—95.	TEMPERATURE OF AIR. 1871-95. Means of				Absolute Extremes.				RAINFALL. Means, 1866—95.	BRIGHT SUNSHINE. Means, 1881—95.	
		Dry Bulb 8 a.m.	Wet Bulb 8 a.m.	Daily Maximum.	Daily Minimum.	Maximum	Years.	Minimum.	Years.		Hours.	Per cent. of possible.
	(*Inches.*)	°	°	°	°	°		°		(*Inches.*)		
Sumburgh Head	29·693	42·3	40·6	45·8	38·2	55	1890	21	1875	4·14	—	—
Stornoway	29·703	42·0	41·0	46·4	37·1	56	1881	20	1880	4·80	42·1	18
Wick	29·728	41·6	40·1	46·2	36·4	58	1885, 89	15	1884	2·93	—	—
Nairn	29·743	40·0	38·4	45·7	35·5	61	1885, 94	18	1880	2·14	—	—
Aberdeen	29·772	40·7	38·9	46·3	36·7	62	1872, 89	15	1880, 84	3·16	54·7	23
Leith	29·798	41·8	40·1	48·2	37·1	64	1872	18	1885	2·05	—	—
Shields	29·824	42·4	40·8	47·6	38·0	62	1881, 94	20	1880	2·39	—	—
Spurn Head	29·854	43·5	42·2	47·1	40·4	61*	1894, 95	28*	1884	2·28	—	—
York	29·859	40·9	39·7	47·7	36·6	62	1894, 95	14	1871	2·21	39·7	16
Loughborough	29·888	40·7	39·5	48·4	36·7	63*	1881, 93, 94, 95	19*	1887, 93	2·21	—	—
Ardrossan	29·799	43·3	41·6	47·9	39·2	69	1872	21	1880	3·78	—	—
Malin Head	29·755	43·9	42·0	48·0	40·9	—	—	—	—	—	—	—
Belmullet	29·799	45·3	43·3	49·4	41·5	—	—	—	—	5·92	—	—
Donaghadee	29·819	43·4	42·3	48·5	39·4	60	1894	27	1878, 83	3·10	—	—
Holyhead	29·845	45·9	44·2	49·8	42·9	62	1881	29	1880	3·96	—	—
Liverpool	29·862	42·7	40·9	48·0	39·7	63	1872	22	1880	2·81	—	—
Parsonstown	29·852	41·8	40·3	49·1	37·0	62	1874	20	1890	2·86	63·1	25
Valencia	29·867	47·4	45·5	52·3	42·9	63	1881	27	1890	5·63	63·8	25
Roche's Point	29·869	46·2	44·6	51·2	42·0	61	1875	27	1890	4·79	—	—
Pembroke	29·871	47·1	45·4	50·3	43·6	58	1884, 95	28	1890	4·04	58·8	23
Scilly	29·898	50·1	48·1	52·6	46·6	60	1875, 81	29	1890	3·80	—	—
Prawle Point	29·917	46·4	44·9	51·2	42·1	61*	1881	19*	1890	3·26	—	—
Jersey	29·937	48·0	46·0	52·3	44·3	64	1874, 81	16	1890	4·19	70·9	26
Hurst Castle	29·912	45·3	44·3	50·7	41·0	66	1874	20	1890	3·11	—	—
Dover	29·904	44·7	43·3	49·7	40·9	61	1895	17	1890	3·30	—	—
LONDON	29·910	42·5	41·1	49·6	38·3	65	1894	19	1879	2·31	29·5†	11†
Oxford	29·908	41·4	40·2	48·5	37·7	68	1881	19	1871, 87	2·42	55·4	22
Cambridge	29·901	41·6	40·1	48·9	36·0	65	1895	15	1890	2·07	61·7	24
Yarmouth	29·879	43·4	42·2	47·7	39·2	60	1895	23	1890	2·92	—	—

* Extremes of temperature at these Stations are from observations made during the 15 years—1881-95. † The Sunshine values are for Westminster.

GENERAL SITUATION AT 8 A.M.

PRESSURE

Highest 30.1 ins & 30.2 ins and upwards in an anticyclone over the Spanish Peninsula and the southern part of France and Germany.
Lowest 28.9 ins and less in a depression lying to the NE^{wd} of the Shetlands.
Gradients steep or rather so over NW^{rn} Europe generally.
Barometer rising over our Islands generally, but inclined to fall in the extreme N. falling at most of the Continental stations.

TEMPERATURE

Highest 61° at Cambridge, 60° at Jersey, 59° at Yarmouth, Dungeness, Brest and Lorient, and 58° in London and at Hurst Castle, Oxford and Cambridge.
Lowest (1) 37° at Wiesbaden and Lyons, and 38° at Belfort and Munich; (2) 40° at Wick and Nairn, and 42° at Stornoway.
The maxima registered over England this morning occurred in many cases during the night. In the W^{rn} and N^{rn} parts of the Kingdom the thermometer has fallen decidedly.

WIND

W^{ly} on all our more western and northern coasts, and strong to a gale in force in many places.
Strong to a gale from the SW^{wd} over the Channel and the southeast of England as well as in Denmark and N. Germany, and moderate from the same quarter over other parts of Germany and the N. of France.
Calm or variable in the S. of France.

WEATHER

Squally and showery over NW^{rn} Europe generally, but fine in many parts of Germany and the S. of France.
Rain fell yesterday over nearly the whole of our area, the largest amounts being 1.6 in. at Stornaway, and 0.6 in. at Skagen and Loughborough. A solar halo was seen at Jersey yesterday.

SEA

High in the Straits of Dover, and rough or rather so on nearly all other parts of our coasts.

PROBABLE CHANGES IN SYSTEM NOW PREVALENT

The tendency for a fresh fall of the barometer in the N. of Scotland seems to indicate the approach of a new depression towards that locality, and the wind seems likely to blow very strongly from the W^{wd} or NW^{wd} on nearly all our coasts, with squally, showery weather.

FORECASTS

For the 24 hours ending at NOON on 4TH NOV. 1898

DISTRICTS.	FORECASTS.	DISTRICTS.	FORECASTS.
0 SCOTLAND NORTH	W^{ly} to NW^{ly} winds increasing to a gale; squally, some cold showers.	6 SCOTLAND WEST	W^{ly} and NW^{ly} winds, strong, a gale in places; squally, showery.
1 SCOTLAND EAST	W^{ly} winds strong in places; squally, some showers, colder.	7 ENGLAND N.W.	
2 ENGLAND N.E.		8 ENGLAND S.W.	
3 ENGLAND EAST	SW^{ly} to W^{ly} winds, strong to a gale in places; squally, some showers, colder.	9 IRELAND NORTH	
4 MIDLAND COUNTIES		10 IRELAND SOUTH	
5 ENGLAND SOUTH		WARNINGS	The South Cone is still 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.	THER. Dry.	THER. Wet.	WIND. Direc.	F.	WEA.	SEA.
Skudesnaes ...	29.23	50	50	S	9	r	8
Sumburgh Head	28.75	48	47	W	4	r	6
Stornoway	28.86	49	48	WNW	4	o	4
Aberdeen	28.92	59	55	SSW	4	cq	6
Shields	29.24	59	57	SSW	6	o	2
Ardrossan	29.14	55	55	SSW	6	r	6
Malin Head ...	29.09	55	55	WSW	6	r	6
Belmullet	29.31	56	55	WSW	7	om	*
Holyhead	29.42	58	57	SW	8	ogqm	6

	BAR.	THER. Dry.	THER. Wet.	WIND. Direc.	F.	WEA.	SEA.
Valencia	29.48	59	59	SW	6	odm	6
Scilly	29.73	59	58	SW	5	m	5
Jersey	29.99	57	55	SSW	6	r	5
Hurst Castle ...	29.66	56	55	SSW	7	rm	4
Dungeness ...	29.89	56	54	SSW	7	o	6
North Foreland	29.90	55	52	S	7	o	5
London (Westminster)	29.82	55	53	SW	6	oqr	#
Yarmouth ...	29.75	54	52	SSW	7	rq	4
Rochefort ...	30.19	59	55	SW	3	c	*

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

Continental information not received.

EXPLANATION OF THE 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.

N.B.—The morning observations are now made at 8 a.m. in the British Islands, Belgium, Germany, Sweden, and Norway, at 7 a.m. in France, and at 9 a.m. in Spain and Portugal. The evening observations are made at 8 p.m. at Oxford, but at 6 p.m. at the other stations in the British Islands and in France : at 8 p.m. in Sweden, Norway and Germany. The time at each Station is the Standard Time of its Country.

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DAILY WEATHER REPORT

for 8 a.m. on Friday 4th November, 1898.

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

	STATIONS.	YESTERDAY EVENING. (See note at bottom of last page.)					THIS MORNING. (See note at bottom of last page.)									PAST 24 HOURS.				
		Barom.	Temp.	Wind.			Barometer.		Temperature.			Wind.						Temp.		
		At 32° and M.S.L.	Dry Bulb.	Direc.	Force (0 to 12.)	Weather	At 32° Fahr. and M. S. L.	Change since Yesterday.	Dry Bulb.	Wet Bulb.	Change since Yesterday.	Direc.	Force (0 to 12.)	Weather.	Sea (0 to 9.)	Weather.	Hours of Bright Sunshine.	Max.	Min.	Rainfall.
		Ins.	°				Ins.	Ins.	°	°	°							°	°	Ins.
Scandinavia	Haparanda ...	28·92	33	N	2	o	29·08	− ·11	24	23	− 9	N	2	c	5	o	*	34	23	0·32
	Hernösand ...	29·02	39	Z	o	r	29·10	+ ·12	31	30	− 12	Z	o	f	*	r	*	45	31	0·08
	Stockholm ...	29·26	46	SW	6	b	29·27	·00	41	40	− 7	SW	4	fb	*	b	*	50	41	—
	Wisby	29·44	50	WSW	8	c	29·42	− ·10	47	45	+ 1	W	6	c	*	c	*	50	43	—
	Karlstad ...	29·26	46	SW	4	b	29·24	+ ·10	42	42	− 8	SW	4	bc	*	b	*	*	*	—
	Bodo	28·92	36	ESE	2	b	29·01	+ ·17	36	31	− 3	E	4	b	1	b	*	37	32	—
	Christiansund ...	28·95	44	WSW	3	c	29·03	+ ·10	42	39	− 1	WSW	2	c	4	c	*	46	41	0·04
	Skudesnaes ...	29·19	47	W	8	c	29·19	+ ·08	42	41	− 8	W	7	r	5	c	*	50	41	*
	Færder (Christiania Fjord)	29·23	48	WSW	6	b	29·23	+ ·09	43	41	− 5	WSW	6	c	4	b	*	?	43	—
	Skagen (The Scaw)	29·37	45	W	4	bc	29·34	+ ·10	42	41	− 9	WSW	5	o	1	o, z	*	54	41	0·43
	Fanö	29·53	50	WSW	4	b	29·54	+ ·09	49	45	− 3	WSW	7	c	*	b	*	54	46	0·20
	Sumburgh Head	28·93	43	WSW	4	o	28·79	− ·07	43	42	0	WSW	6	p	6	cp. o	*	46	40	0·53
	Stornoway ...	29·05	41	WNW	6	o	29·13	+ ·15	44	41	+ 2	NW	5	o	5	rhpzl. o	0·8	44	38	1·30
	Wick ...	29·06	45	NW	5	c	29·06	+ ·04	43	42	+ 3	NW	6	chpw	3	c	*	53	36	0·30
	Nairn	29·17	37	W	1	c	29·19	+ ·07	42	40	+ 2	W	4	or	3	or. c	*	44	34	0·48
	Aberdeen ...	29·21	40	WSW	6	bq	29·27	+ ·08	44	40	− 1	SW	3	b	3	p. bq	6·1	46	38	0·04
British Isles.	Leith	29·36	45	W	2	r	29·41	+ ·13	45	43	− 1	WSW	3	bc	*	2 hrs	*	47	39	0·44
	Shields	29·50	45	SW	3	bq	29·56	+ ·14	46	43	− 4	WSW	4	c	2	bq	*	53	43	0·02
	Spurn Head ...	29·61	49	W	6	c	29·72	+ ·20	46	45	− 6	SW	5	bq	4	c. q	*	50	42	—
	York	29·59	46	WSW	3	bc	29·70	+ ·20	47	44	− 4	SW	3	bc	*	bc	5·7	53	44	0·04
	Loughborough ...	29·70	49	WSW	4	c	29·83	+ ·26	44	41	− 8	SW	4	b	*	bq. bq	*	54	42	0·07
	Ardrossan ...	29·35	48	WSW	7	bc	29·50	+ ·15	48	47	+ 1	WSW	8	c	5	pq. bq. pq	*	49	42	0·29
	Malin Head ...	29·32	46	WNW	8	chrsq	29·47	+ ·18	49	47	+ 3	W	7	c	6	bc, rhsq. z	*	49	36	0·30
	Belmullet ...	29·64	47	W	7	bc	29·72	+ ·20	50	46	+ 2	W	7	cpq	*	bc	*	53	43	0·23
	Donaghadee ...	29·49	44	WSW	6	c	29·60	+ ·18	44	43	− 2	WSW	6	bc	4	c	*	49	40	0·09
	Liverpool (Bidston)	29·64	46	WSW	7	c	29·76	+ ·20	49	44	− 2	WSW	6	bc	6	cpq	*	53	44	0·04
	Holyhead ...	29·67	48	W	7	b	29·78	+ ·19	49	46	− 1	W	6	c	5	rq. b	*	53	44	0·07
	Parsonstown ...	29·71	45	W	2	b	29·79	+ ·17	47	45	+ 1	W	1	or	*	b. r	3·6	58	42	0·08
	Valencia ...	29·92	52	W	6	bcq	29·89	+ ·16	53	49	0	WSW	6	c	6	bcpq	8·5	53	48	0·03
	Roche's Point ...	29·86	47	W	3	b	29·90	+ ·16	48	45	− 2	W	3	b	3	p. b	*	53	43	—
	Pembroke (St. Ann's Hd.)	29·79	50	WNW	6	c	29·91	+ ·21	48	48	− 9	W	6	cpq	4	c	5·7	?	?	0·03
	Scilly	29·90	55	W	5	c	29·99	+ ·22	54	48	− 2	WNW	4	c	4	c	3·6	60	49	—
	Prawle Point ...	29·88	50	WSW	5	bc	30·00	+ ·22	50	46	− 7	WSW	4	b	2	bc	*	58	44	0·02
	Jersey (St. Aubin's)	29·89	58	WNW	5	pcm	30·02	+ ·15	49	47	− 11	WNW	3	cm	3	or. pm	*	61	47	0·16
	Hurst Castle ...	29·83	53	W	3	bc	29·98	+ ·23	50	47	− 8	W	3	bc	2	pz. bc	*	59	49	0·06
	Dungeness ...	29·76	54	WNW	3	r	29·97	+ ·25	43	42	− 16	W	2	b	2	r	*	59	35	0·11
	North Foreland	29·77	53	W	2	o	29·93	+ ·22	44	41	− 11	W	3	b	2	r. o	*	60	41	0·14
	London (Brixton) ...	29·78	52	WNW	3	b	29·98	+ ·29	42	40	− 16	WSW	1	b	*	orq. b	0·0	61	40	0·06
	Oxford	29·82	47	W	3	bc	29·93	+ ·28	43	41	− 15	SW	2	b	*	o. bc	*	59	42	—
	Cambridge ...	29·74	47	WSW	1	b	29·91	+ ·30	40	39	− 21	SW	3	b	*	p. b	1·7	61	38	0·07
	Yarmouth ...	29·67	50	W	2	bc	29·85	+ ·28	43	41	− 16	WSW	4	b	3	c. bc	*	60	40	0·11
Germany & Holland.	Cuxhaven ...	29·65	50	WSW	2	r	29·70	+ ·07	46	44	− 4	SW	4	b	*	p	*	52	45	0·24
	Berlin	29·79	51	SW	4	o	29·82	− ·15	50	46	+ 8	WNW	3	c	*	o	*	54	42	0·04
	Wiesbaden ...	*	*	*	*	*	29·97	− ·14	50	49	+ 13	W	1	o	*	*	*	50	37	0·16
	Munich	30·11	45	SW	3	b	30·05	− ·16	49	47	+ 11	SSW	3	o	*	b	*	54	37	0·04
	The Helder ...																*			
Belgium.	Brussels ...	*	*	*	*	*	29·99	+ ·09	41	41	− 7	W	1	bc	*	r	*	54	41	0·20
	Cape Gris Nez ...																*			
	Paris	29·97	53	SSW	4	o	30·02	− ·02	49	48	+ 1	S	1	r	*	o	*	55	48	0·08
	Brest	29·85	53	NW	3	f	30·04	+ ·13	51	50	+ 1	NNW	1	o	3	f	*	59	46	0·04
	Lorient	29·96	59	WSW	4	r	30·07	+ ·10	51	50	− 8	N	2	o	2	r	*	61	48	0·16
France &	Rochefort ...	30·07	57	SSW	4	r	30·00	− ·12	60	59	+ 5	NW	3	r	*	o. r	*	60	52	0·20
	Belfort	30·07	48	W	3	o	30·02	− ·17	49	46	+ 11	W	2	c	*	o	*	58	38	—
	Lyons	30·12	52	S	1	b	30·09	− ·15	48	43	+ 11	SE	1	b	*	b	*	57	37	—
	Nice	30·11	56	ENE	6	c	30·05	− ·09	55	52	0	E	1	o	2	c	*	66	52	—
	Perpignan ...	30·09	57	Z	o	o	30·04	− ·14	53	51	+ 9	Z	o	o	*	o	*	65	44	—
	Biarritz ...	30·06	59	E	2	o	30·02	− ·06	59	59	+ 4	Z	o	r	4	o	*	61	54	0·04
Penin-sula.	Corunna ...																*			
	Lisbon	30·17	61	NNW	4	o	30·16	− ·07	59	57	+ 1	Z	o	b	*	o	*	66	57	—
	Azores (P. Delgada)	30·28	65	WSW	2	o	30·23	− ·08	65	63	+ 2	WSW	1	bc	3	o	*	70	63	—

For Explanation of Columns, see bottom of last page. † *Received too late for Insertion in Charts on next page.*

NOTE: *The Sunshine for London given in this Table is now recorded on the tower of the Wesleyan Training College, Westminster.*

Bright Sunshine yesterday Southport 3.2 hrs;

WEATHER CHARTS

FOR Friday, 4th November, 1898

BAROMETER, WIND AND SEA.

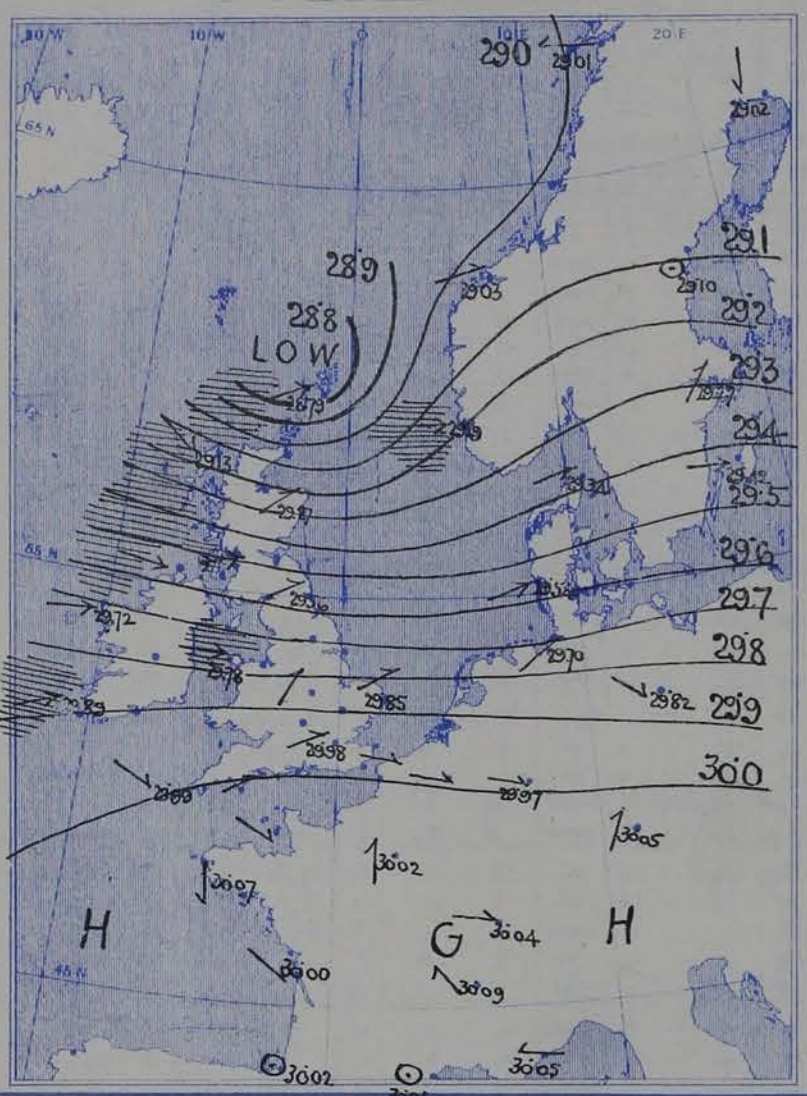
BAROMETER—Isobars are drawn for each tenth of an inch.

WIND—Arrows shew Directions and Force, flying with the wind.

Force above 10 ⟶⟶ ; Force 5 to 7 ⟶ ; } Calm ⊙

Force 8 to 10 ⟶ ; Force 1 to 4 ⟶ ; }

SEA—Rough ; High

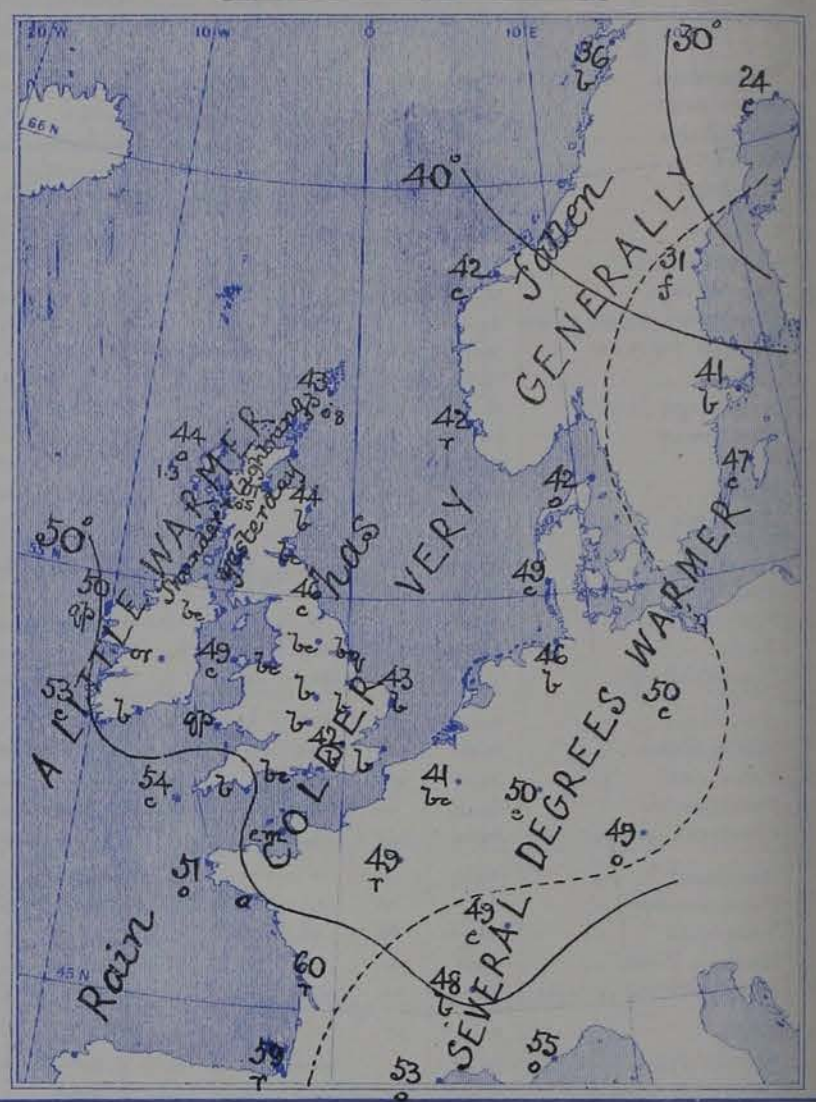


TEMPERATURE & WEATHER.

TEMPERATURE—Isotherms are drawn for each 10°.

WEATHER—Shown by Letters of the Beaufort Scale.

RAINFALL—A dotted line separates areas where rain has fallen from those without rain. The fall in past 24 hours when exceeding half an inch is shown thus—0·6.



VALUES FOR PRESSURE, TEMPERATURE, RAINFALL, AND BRIGHT SUNSHINE IN THE MONTH OF NOVEMBER.

STATIONS.	PRESSURE AT 8 A.M. Means, 1871—95.	TEMPERATURE OF AIR. 1871-95. Means of				Absolute Extremes.				RAINFALL. Means, 1866—95.	BRIGHT SUNSHINE. Means, 1881—95.	
		Dry Bulb 8 a.m.	Wet Bulb 8 a.m.	Daily Maximum.	Daily Minimum.	Maximum	Years.	Minimum.	Years.		Hours.	Per cent. of possible.
	(*Inches.*)	°	°	°	°	°		°		(*Inches.*)		
Sumburgh Head	29 · 693	42 · 3	40 · 6	45 8	38 · 2	55	1890	21	1875	4 · 14	—	—
Stornoway	29 · 703	42 · 0	41 · 0	46 · 4	37 · 1	56	1881	20	1880	4 · 80	42 · 1	18
Wick	29 · 728	41 · 6	40 · 1	46 · 2	36 · 4	58	1885, 89	15	1884	2 · 93	—	—
Nairn	29 · 743	40 · 0	38 · 4	45 · 7	35 · 5	61	1885, 94	18	1880	2 · 14	—	—
Aberdeen	29 · 772	40 · 7	38 · 9	46 · 3	36 · 7	62	1872, 89	15	1880, 84	3 · 16	54 · 7	23
Leith	29 · 798	41 · 8	40 · 1	48 · 2	37 · 1	64	1872	18	1885	2 · 05	—	—
Shields	29 · 824	42 · 4	40 · 8	47 · 6	38 · 0	62	1881, 94	20	1880	2 · 39	—	—
Spurn Head	29 · 854	43 · 5	42 · 2	47 · 1	40 · 4	61*	1894, 95	28*	1884	2 · 28	—	—
York	29 · 859	40 · 9	39 · 7	47 · 7	36 · 6	62	1894, 95	14	1871	2 · 21	39 · 7	16
Loughborough	29 · 888	40 · 7	39 · 5	48 · 4	36 · 7	63*	1881, 93, 94, 95	19*	1887, 93	2 · 21	—	—
Ardrossan	29 · 799	43 · 3	41 · 6	47 · 9	39 · 2	69	1872	21	1880	3 · 78	—	—
Malin Head	29 · 755	43 · 9	42 · 0	48 · 0	40 · 9	—	—	—	—	—	—	—
Belmullet	29 · 799	45 · 3	43 · 3	49 · 4	41 · 5	—	—	—	—	5 · 92	—	—
Donaghadee	29 · 819	43 · 4	42 · 3	48 · 5	39 · 4	60	1894	27	1878, 83	3 · 10	—	—
Holyhead	29 · 845	45 · 9	44 · 2	49 · 8	42 · 9	62	1881	29	1880	3 · 96	—	—
Liverpool	29 · 862	42 · 7	40 · 9	48 · 0	39 · 7	63	1872	22	1880	2 · 81	—	—
Parsonstown	29 · 852	41 · 8	40 · 3	49 · 1	37 · 0	62	1874	20	1890	2 · 86	63 · 1	25
Valencia	29 · 867	47 · 4	45 · 5	52 · 3	42 · 9	63	1881	27	1890	5 · 63	63 · 8	25
Roche's Point	29 · 869	46 · 2	44 · 6	51 · 2	42 · 0	61	1875	27	1890	4 · 79	—	—
Pembroke	29 · 871	47 · 1	45 · 4	50 · 3	43 · 6	58	1884, 95	28	1890	4 · 04	58 · 8	23
Scilly	29 · 898	50 · 1	48 · 1	52 · 6	46 · 6	60	1875, 81	29	1890	3 · 80	—	—
Prawle Point	29 · 917	46 · 4	44 · 9	51 · 2	42 · 1	61*	1881	19*	1890	3 · 26	—	—
Jersey	29 · 937	48 · 0	46 · 0	52 · 3	44 · 3	64	1874, 81	16	1890	4 · 19	70 · 9	26
Hurst Castle	29 · 912	45 · 3	44 · 3	50 · 7	41 · 0	66	1874	20	1890	3 · 11	—	—
Dover	29 · 904	44 · 7	43 · 3	49 · 7	40 · 9	61	1895	17	1890	3 · 30	—	—
LONDON	29 · 910	42 · 5	41 · 1	49 · 6	38 · 3	65	1894	19	1879	2 · 31	29 · 5†	11†
Oxford	29 · 908	41 · 4	40 · 2	48 · 5	37 · 7	68	1881	19	1871, 87	2 · 42	55 4	22
Cambridge	29 · 901	41 · 0	40 · 1	48 · 9	36 · 0	65	1895	15	1890	2 · 07	61 7	24
Yarmouth	29 · 879	43 · 4	42 · 2	47 · 7	39 · 2	60	1895	23	1890	2 · 92	—	—

* Extremes of temperature at these Stations are from observations made during the 15 years—1881-95. † The Sunshine values are for Westminster.

GENERAL SITUATION AT 8 A.M.

PRESSURE

Highest 30·1 ins. and upwards in Portugal, 30·0 ins. and upwards over the English Channel, the Bay of Biscay, France and S. Germany.
Lowest 28·8 ins. and less in a deep depression with its centre a little to the N^wd. of the Shetlands.
Gradients steep over the North Sea and the N. of Scotland, but moderate or slight elsewhere.
Barometer rising over NW^rn. Europe as a whole, but falling again in the extreme N. of Scotland, as well as in the W. of Ireland and the S^rn. parts of France.

TEMPERATURE

Highest 60° at Rochefort, 59° at Biarritz and Lisbon, 55° at Nice, 54° at Scilly, and 53° at Valencia (Ireland) and Perpignan.
Lowest (1) 24° at Haparanda, 31° at Hernösand, and 36° at Bodö; (2) 40° at Cambridge, 41° at Brussels, and 42° in London.
During yesterday the thermometer rose to 60° or slightly above it in the S. and E. of England. On many parts of our N^rn. coasts it failed to reach 50°.

WIND

Strong from the W^wd. on our western coasts, with a gale at Ardrossan, and from the NW^wd. in the north of Scotland.
Moderate to fresh from the SW^wd. in the eastern parts of Gt. Britain, and strong from the same quarter or from W. in Denmark and the south of Scandinavia, varying between N.E. in the North of Scandinavia.
Light from the NW^wd. in the west of France, but from the SE^wd. over the central parts of that country.

WEATHER

Fine over England and the E. of Scotland, but showery at several of our W^rn. and N^rn. stations, with hail at Wick.
Varying greatly at the Continental stations, but mostly cloudy, with rain in several parts of France, and also at Christiansund.
Rain fell yesterday over nearly the whole of W^rn. Europe, the largest amounts being 1·3 in. at Stornoway, and 0·8 in. at Eskdalemuir. Thunder and lightning occurred yesterday at Stornoway and Leith, and lightning was seen at night at Ardrossan and Malin Hd.

SEA

Rough or rather so on most parts of our W^rn. and extreme N^rn. coasts, but moderate or slight elsewhere.

PROBABLE CHANGES IN SYSTEM NOW PREVALENT

The depression in the N. is inclined to grow deeper, while the fresh fall of the barometer in the W. of Ireland seems to indicate the approach of secondary systems from the W^wd. The general appearance remains very unsettled.

FORECASTS

For the 24 hours ending at NOON on 5TH NOV. 1898

DISTRICTS.		FORECASTS.	DISTRICTS.		FORECASTS.
▼ 0	SCOTLAND NORTH	NW^ly gales, moderating later and wind backing; squally, showery.	6	SCOTLAND WEST	W^ly and SW^ly winds, strong; unsettled, some rain.
▼ 1	SCOTLAND EAST	W^ly and SW^ly winds strong in places; fair at first; showery later.	7	ENGLAND N.W.	
2	ENGLAND N.E.		8	ENGLAND S.W.	
3	ENGLAND EAST	W^ly and SW^ly winds, freshening; changeable, some showers.	9	IRELAND NORTH	
4	MIDLAND COUNTIES		10	IRELAND SOUTH	
5	ENGLAND SOUTH			WARNINGS	At 10.10 am. today to districts 0 and part of 1. Hoist North Cone.

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

YESTERDAY'S 2 P.M. REPORTS.

	BAR.	THER. Dry.	THER. Wet.	WIND. Direc.	F.	WEA.	SEA.
Skudesnaes ...	29.16	50	45	WSW	7	c	6
Sumburgh Head	28.89	45	41	W	5	cf	6
Stornoway	29.03	44	41	WNW	6	r	6
Aberdeen	29.21	45	40	WSW	5	bq	4
Shields	29.46	52	47	SW	4	bc	2
Ardrossan	29.36	47	45	WSW	8	bcfpq	6
Malin Head ...	29.31	47	45	WNW	8	bcrstq	6
Belmullet	29.62	49	44	W	7	bc	*
Holyhead	29.63	49	47	W	7	rq	6
Valencia	29.88	51	46	W	7	bcfpq	6
Scilly	29.85	56	50	WNW	4	c	4
Jersey	29.86	61	60	SW	4	or	4
Hurst Castle ...	29.76	55	54	W	3	a	3
Dungeness ...	29.70	59	58	SW	6	r	5
North Foreland	29.71	54	53	SW	5	r	4
London (Westminster)	29.72	58	54	WSW	3	o	#
Yarmouth ...	29.63	55	52	W	3	c	4
Rochefort ...	30.09	58	56	SSW	4	o	#

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

Weather in morning squally and showery over the whole of our Islands and the neighbouring parts of the Continent. Fine in many parts of S^rn Europe, but dull in all the N^rn, E^rn and central countries, with fog in Austria, rain at Ulealborg, Fraender and Skagen, and snow at Haparanda. Rain falling during day in nearly all parts of W^rn Europe, - heavily in the N. of Scotland; thunder and lightning occurring at Stornoway and Leith, and lightning seen at night on our extreme NW. coasts.

Temperature fallen briskly in the W. and N. of our Islands and to a less extent in Russia and Austria, risen elsewhere. Morning readings: highest 70° at Malta, 68° at Tunis, and 67° at Athens; above 60° at most of the Mediterranean and Adriatic stations, and just touching that point at Jersey. Lowest (1) 15° at Archangel, 33° at Haparanda, and 34° at Ulealborg; (2) 37° at Wiesbaden and Lyons. Lowest in our Islands, 40° at Wick, and Nairn. Remaining below 50° all day at many of our N^rn stations, but rising to 60° or slightly above it in the S. and E. of England; reaching 65° at Perpignan, and 66° at Nice and Lisbon.

Wind strong to a gale from the W^rd on most parts of our western coasts, and moderate or fresh from the same quarter in the north of Scotland. Strong to a gale from the SW^rd over the Channel and the southeast of England, as well as in Denmark, the Baltic and the south of Sweden; SE. ½ E. in the north of Scandinavia. Variable over the Spanish Peninsula and the extreme south of France; E. ½ SE. over Italy, calm in Austria, variable in the south of Russia. Wind unchanging later on our south and southeast coasts and also in Denmark and veering to the W^rd.

Barometer highest 30.30 ins. at Hermanstadt, 30.1 ins. and upwards in an anticyclone covering nearly the whole of E^rn, central and S^rn Europe. Lowest 28.8 ins. and less in a depression lying off the N^rn parts of the Norwegian coasts, 28.9 ins. and less in a secondary system near the Shetlands. Further small secondary disturbances moving E^rd across our Islands during day.

EXPLANATION OF THE 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.

N.B.—The morning observations are now made at 8 a.m. in the British Islands, Belgium, Germany, Sweden, and Norway, at 7 a.m. in France, and at 9 a.m. in Spain and Portugal. The evening observations are made at 8 p.m. at Oxford, but at 6 p.m. at the other stations in the British Islands and in France; at 8 p.m. in Sweden, Norway and Germany. The time at each Station is the Standard Time of its Country.

Subscriptions both for the Daily *and* Weekly Weather Reports *may be paid, in advance, to the* Meteorological Office.

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DAILY WEATHER REPORT

for 8 a.m. on **Saturday, 5th November,** 1898.

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

	STATIONS.	YESTERDAY EVENING. (See note at bottom of last page.) Barom. At 32° and M.S.L.	Temp. Dry Bulb.	Wind. Direc.	Wind. Force (0 to 12.)	Weather	THIS MORNING. (See note at bottom of last page.) Barometer. At 32° Fahr. and M. S. L.	Barometer. Change since Yesterday.	Temperature. Dry Bulb.	Temperature. Wet Bulb.	Temperature. Change since Yesterday.	Wind. Direc.	Wind. Force (0 to 12.)	Weather.	Sea (0 to 9.)	PAST 24 HOURS. Weather.	Hours of Bright Sunshine.	Temp. Max.	Temp. Min.	Rainfall.
		Ins.	°				Ins.	Ins.	°	°	°							°	°	Ins.
Scandinavia.	Haparanda ...	29.29	21	NE	2	b	29.34	+.46	9	8	− 15	N	2	b	*	S	*	32	7	-
	Hernösand ...	29.29	31	E	1	s	29.34	+.24	38	37	+ 7	N	2	[illegible]	*	S	*	39	31	0.20
	Stockholm ...	29.29	43	SW	4	o	29.43	+.16	45	43	+ 4	SW	4	[illegible]	*	o	*	45	41	-
	Wisby	29.31	45	W	8	b	29.60	+.18	46	44	− 1	W	6	o	*	b	*	47	41	-
	Karlstad ...	29.33	45	SW	6	c	29.32	+.08	46	44	+ 4	SSW	4	bc	*	c	*	*	*	-
	Bodö	29.17	33	E	5	b	29.28	+.27	32	28	− 4	E	6	b	1	b	*	34	26	-
	Christiansund ...	28.94	44	NNW	4	bc	28.98	−.05	45	40	+ 3	W	4	o	4	bc	*	45	34	-
	Skudesnaes ...	29.25	48	SW	5	o	29.28	+.06	47	45	+ 5	SW	6	o	6	r.o	*	42	41	*
	Færder (Christiania Fjord)	29.30	45	NNW	6	b	29.28	+.05	50	44	+ 7	NNW	6	c	4	b	*	50	43	-
	Skagen (The Scaw)	29.46	46	NNW	4	bc	29.42	+.08	45	44	+ 3	NNW	3	m	0	bc	*	50	42	0.47
	Fano	29.44	49	NNW	6	c	29.60	+.06	46	48	− 0	SW	4	c	*	c	*	50	46	0.28
British Islands.	Sumburgh Head	29.98	46	N	6	o	29.17	+.38	42	41	− 1	NNW	4	r	6	p.bc,o	*	48	40	0.14
	Stornoway ...	29.21	44	WNW	5	o	29.36	+.23	39	38	− 5	WSW	4	c	4	rg,o	2.0	43	36	1.10
	Wick	29.28	45	NNW	3	o	29.34	+.28	40	38	− 3	NW	4	c	2	o	*	44	31	0.20
	Nairn	29.28	42	N	3	r	29.44	+.42	38	37	− 4	E	0	bc	1	r	*	47	36	0.17
	Aberdeen ...	29.33	43	SW	3	b	29.43	+.18	38	36	− 6	SE	2	bc mw	2	bg,b	6.8	51	35	-
	Leith	29.43	46	NNW	3	o	29.43	+.07	46	44	+ 1	NNW	2	bc	*	o	*	52	43	0.071
	Shields	29.56	51	SW	3	o	29.56	.00	48	47	+ 2	NNW	3	c	2	o	*	52	44	-
	Spurn Head ...	29.70	50	SW	5	o	29.63	−.09	49	49	+ 3	SW	4	o	4	c,o	*	52	45	-
	York	29.68	49	SSW	3	o gg p	29.63	−.07	47	46	0	SSW	1	c	*	o gg p	0.2	51	45	0.14
	Loughborough ..	29.80	49	SW	4	b	29.72	−.11	49	47	+ 5	SW	3	o u	*	bc c o	*	55	44	-
	Ardrossan ...	29.49	49	WSW	4	o gg p	29.52	+.02	49	48	+ 1	WSW	5	c gg p	3	o gg p	*	51	46	0.29
	Malin Head ...	29.46	50	W	6	c gg p	29.51	+.04	49	47	0	W	4	bc p	3	c gg p	*	50	45	0.35
	Belmullet ...	29.67	51	N	6	o gg p	29.66	−.06	50	48	0	W	2	b	*	o gg p	*	52	46	0.30
	Donaghadee ...	29.60	49	W	5	o	29.60	−.04	43	43	− 1	W	4	bc	2	o	*	51	42	0.02
	Liverpool (Bidston)	29.74	50	WSW	3	c	29.66	−.10	50	48	+ 1	WSW	2	o	3	c	*	50	47	0.01
	Holyhead ...	29.75	52	WSW	6	o g	29.65	−.13	51	49	+ 2	WSW	3	p	2	c.o g	*	50	46	0.13
	Parsonstown ...	29.74	48	SE	1	b	29.68	−.11	45	45	− 2	E	0	bc	*	c,r	1.2	51	44	0.32
	Valencia ...	29.82	51	WSW	4	o p	29.73	−.16	52	49	− 1	W	3	c	4	o gg p	0.4	54	49	0.24
	Roche's Point ..	29.84	50	W	4	o	29.74	−.16	51	50	+ 3	W	3	c p o	3	o	*	53	46	0.08
	Pembroke (St. Ann's Hd.)	29.83	54	W	5	c	29.73	−.18	53	52	0	W	5	o g p	4	o	4.8	54	50	0.09
	Scilly	29.92	56	WSW	4	c p	29.81	−.18	54	51	0	WSW	5	c p	4	c p	3.5	59	48	0.01
	Prawle Point ...	29.92	51	WSW	3	o	29.83	−.17	51	49	+ 1	WSW	6	c p	5	c.o p	*	55	48	0.09
	Jersey (St. Aubin's)	29.98	53	WNW	3	c	29.94	−.03	56	51	+ 7	WSW	4	o g	3	bc.c	*	53	46	-
	Hurst Castle ...	29.92	53	WSW	4	bc	29.82	−.16	54	52	+ 4	WSW	4	c g	3	c.bc	+	57	49	0.01
	Dungeness ...	29.92	52	WSW	4	bc	29.82	−.15	52	51	+ 9	WSW	4	p	3	bc	*	57	42	0.02
	North Foreland	29.93	48	SW	3	bc	29.82	−.11	48	47	+ 4	SW	3	c	2	b,bc	*	54	42	-
	London (Brixton) ...	29.90	49	WSW	3	o	29.81	−.17	50	48	+ 8	SW	3	c	*	bc,o,b	4.5	55	42	-
	Oxford	29.88	47	SW	3	c	29.79	−.14	48	46	+ 5	WSW	3	o u	*	bc,c	*	54	43	-
	Cambridge ...	29.86	48	SW	3	b	29.77	−.14	47	46	+ 7	SW	3	r	*	b	6.3	56	30	-
	Yarmouth ...	29.82	49	SW	3	bc	29.75	−.10	48	47	+ 5	WSW	3	d	3	b,bc	*	53	42	0.01
Germany & Holland.	Cuxhaven ...	29.77	47	NNW	5	bc	29.74	+.04	43	41	− 3	SSW	4	o	*	bc	*	50	41	-
	Berlin	29.95	44	W	2	b	29.94	+.12	36	35	− 11	S	2	b	*	b	*	54	36	-
	Wiesbaden ..	*	*	*	*	*	29.97	.00	45	44	− 5	N	0	o	*	*	*	52	39	-
	Munich... ..	30.05	48	N	0	b	30.01	−.04	44	44	− 5	E	1	bc	*	b	*	51	41	0.04
	The Helder ...	29.80	53	WSW	5	bc	29.74		54	50		WSW	4	c	2	bc	*	54	50	-
France & Belgium.	Brussels ..	*	*	*	*	*	29.93	−.06	44	41	+ 3	S	1	o	*	b	*	51	39	-
	Cape Gris Nez...	?	56	W	5	c	?	?	54	52		W	5	o	5	c	*	55	46	-
	Paris	30.03	48	N	0	o	29.97	−.05	39	39	− 10	SSW	1	[illegible]	*	o	*	53	34	-
	Brest	30.01	54	WNW	1	o	29.87	−.17	54	52	+ 3	WSW	2	[illegible]	3	o	*	57	48	-
	Lorient... ...	30.02	54	N	1	o	29.97	−.10	51	50	0	N	0	o	3	o	*	61	50	-
	Rochefort ...	29.98	57	NE	3	o	29.96	−.04	53	52	− 7	NE	2	o	*	o	*	63	50	0.08
	Belfort	30.00	51	N	0	r	29.94	−.08	?	?	?	N	0	m	*	r	*	59	49	0.12
	Lyons ...	30.02	55	N	1	bc	29.99	−.10	46	39	− 2	SSE	1	bc	*	bc	*	?	45	?
	Nice	29.98	59	E	2	c	29.91	−.14	56	55	+ 1	E	2	o	3	c	*	64	55	0.12
	Perpignan ...	30.00	57	N	0	o	29.90	−.14	59	48	+ 6	NW	1	o	*	o	*	63	52	-
	Biarritz ...	29.99	60	WNW	2	o	29.94	−.08	59	57	0	N	0	o	4	o	*	64	55	0.09
Penin-sula.	Corunna ...																*			
	Lisbon	30.03	61	SSW	4	r	30.00	−.16	59	58	0	N	4	o	*	r	*	64	59	0.28
	Azores (P. Delgada)																*			

For Explanation of Columns, see bottom of last page. † *Received too late for Insertion in Charts on next page.*

NOTE: *The Sunshine for London given in this Table is now recorded on the tower of the Wesleyan Training College, Westminster*

Bright Sunshine yesterday Southport 2.6 hrs;

WEATHER CHARTS

FOR Saturday, 5th November, 1898

BAROMETER, WIND AND SEA.

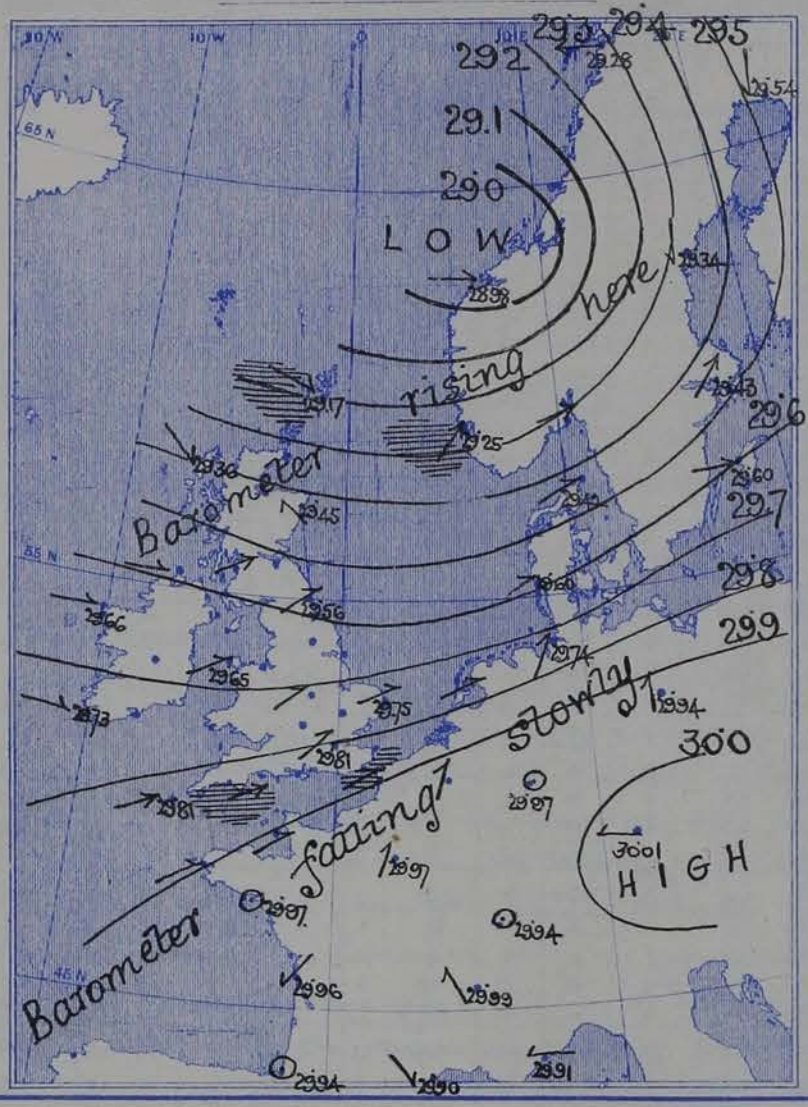
BAROMETER—Isobars are drawn for each tenth of an inch.

WIND—Arrows shew Directions and Force, flying with the wind.

Force above 10 ⟫⟶ ; *Force 5 to 7* ⟶ ; } Calm ⊙

Force 8 to 10 ⟶ ; *Force 1 to 4* ⟶ ; }

SEA—Rough ▤ : *High* ▨

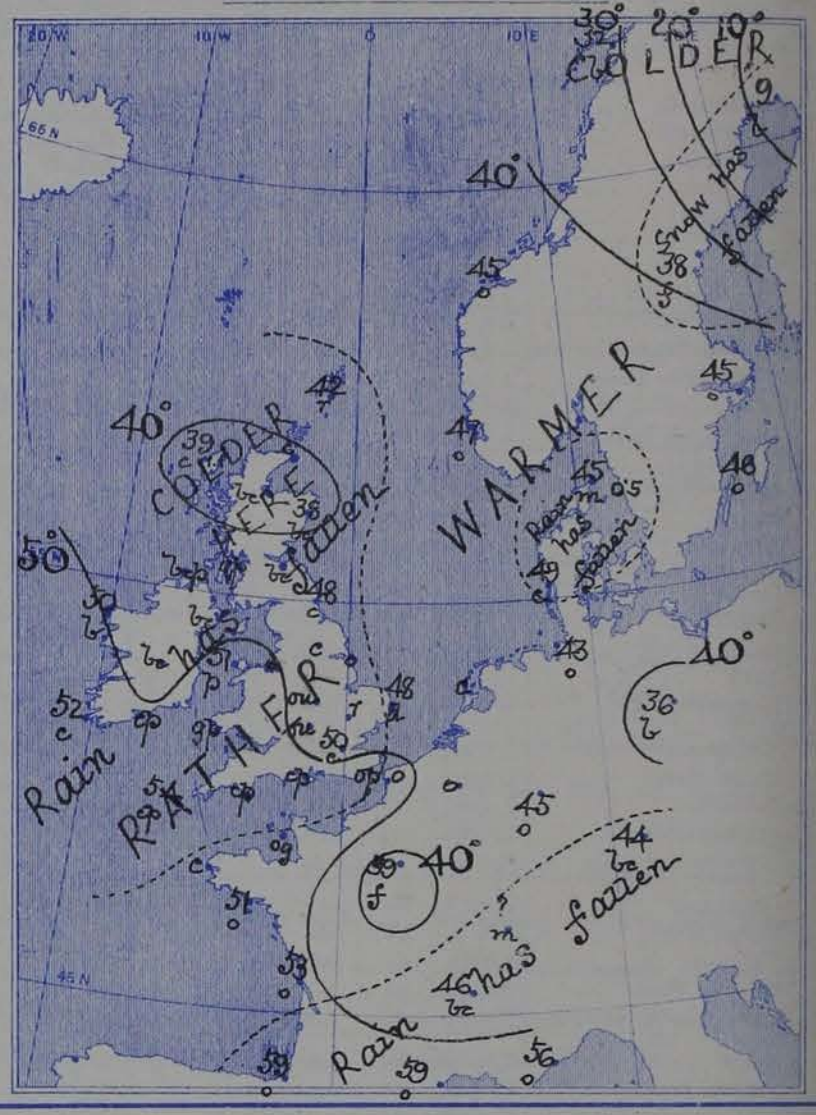


TEMPERATURE & WEATHER.

TEMPERATURE—Isotherms are drawn for each 10°.

WEATHER—Shown by Letters of the Beaufort Scale.

RAINFALL—{A dotted line separates areas where rain has fallen from those without rain. The fall in past 24 hours when exceeding half an inch is shown thus—0·6.



VALUES FOR PRESSURE, TEMPERATURE, RAINFALL, AND BRIGHT SUNSHINE IN THE MONTH OF NOVEMBER.

STATIONS.	PRESSURE AT 8 A.M. Means, 1871—95.	TEMPERATURE OF AIR. 1871-95. Means of				Absolute Extremes.				RAINFALL. Means, 1866—95.	BRIGHT SUNSHINE. Means, 1881—95.	
		Dry Bulb 8 a.m.	Wet Bulb 8 a.m.	Daily Maximum.	Daily Minimum.	Maximum	Years.	Minimum.	Years.		Hours.	Per cent. of possible.
	(Inches.)	°	°	°	°	°		°		(Inches.)		
Sumburgh Head	29·693	42·3	40·6	45·8	38·2	55	1890	21	1875	4·14	—	—
Stornoway	29·703	42·0	41·0	46·4	37·1	56	1881	20	1880	4·80	42·1	18
Wick	29·728	41·6	40·1	46·2	36·4	58	1885, 89	15	1884	2·93	—	—
Nairn	29·743	40·0	38·4	45·7	35·5	61	1885, 94	18	1880	2·14	—	—
Aberdeen	29·772	40·7	38·9	46·3	36·7	62	1872, 89	15	1880, 84	3·16	54·7	23
Leith	29·798	41·8	40·1	48·2	37·1	64	1872	18	1885	2·05	—	—
Shields	29·824	42·4	40·8	47·6	38·0	62	1881, 94	20	1880	2·39	—	—
Spurn Head	29·854	43·5	42·2	47·1	40·4	61*	1894, 95	28*	1884	2·28	—	—
York	29·859	40·9	39·7	47·7	36·6	62	1894, 95	14	1871	2·21	39·7	16
Loughborough	29·888	40·7	39·5	48·4	36·7	63*	1881, 93, 94, 95	19*	1887, 93	2·21	—	—
Ardrossan	29·799	43·3	41·6	47·9	39·2	69	1872	21	1880	3·78	—	—
Malin Head	29·755	43·9	42·0	48·0	40·9	—	—	—	—	—	—	—
Belmullet	29·799	45·3	43·3	49·4	41·5	—	—	—	—	5·92	—	—
Donaghadee	29·819	43·4	42·3	48·5	39·4	60	1894	27	1878, 83	3·10	—	—
Holyhead	29·845	45·9	44·2	49·8	42·9	62	1881	29	1880	3·96	—	—
Liverpool	29·862	42·7	40·9	48·0	39·7	63	1872	22	1880	2·81	—	—
Parsonstown	29·852	41·8	40·3	49·1	37·0	62	1874	20	1890	2·86	63·1	25
Valencia	29·867	47·4	45·5	52·3	42·9	63	1881	27	1890	5·63	63·8	25
Roche's Point	29·869	46·2	44·6	51·2	42·0	61	1875	27	1890	4·79	—	—
Pembroke	29·871	47·1	45·4	50·3	43·6	58	1884, 95	28	1890	4·04	58·8	23
Scilly	29·898	50·1	48·1	52·6	46·6	60	1875, 81	29	1890	3·80	—	—
Prawle Point	29·917	46·4	44·9	51·2	42·1	61*	1881	19*	1890	3·26	—	—
Jersey	29·937	48·0	46·0	52·3	44·3	64	1874, 81	16	1890	4·19	70·9	26
Hurst Castle	29·912	45·3	44·3	50·7	41·0	66	1874	20	1890	3·11	—	—
Dover	29·904	44·7	43·3	49·7	40·9	61	1895	17	1890	3·30	—	—
LONDON	29·910	42·5	41·1	49·6	38·3	65	1894	19	1879	2·31	29·5†	11†
Oxford	29·908	41·4	40·2	48·5	37·7	68	1881	19	1871, 87	2·42	55·4	22
Cambridge	29·901	41·0	40·1	48·9	36·0	65	1895	15	1890	2·07	61·7	24
Yarmouth	29·879	43·4	42·2	47·7	39·2	60	1895	23	1890	2·92	—	—

* Extremes of temperature at these Stations are from observations made during the 15 years—1881-95. † The Sunshine values are for Westminster.

GENERAL SITUATION AT 8 A.M.

PRESSURE

Highest 30·0 ins. and upwards in S. Germany; 29·9 ins. and upwards over nearly the whole of Germany and France.

Lowest 29·0 ins. and less in a depression lying off the W. of Norway.

Gradients moderate over NW^rn Europe generally, but slight or smooth elsewhere.

Barometer rising in the N. of our Islands and also in Sweden, but falling elsewhere.

TEMPERATURE

Highest 59° at Biarritz, Perpignan and Lisbon, 56° at Jersey and Nice, and 54° at Scilly and Brest.

Lowest (1) 9° at Haparanda, 32° at Bodö, and 38° at Hernosand; (2) 36° at Berlin; (3) 38° at Nairn and Aberdeen, and 39° at Stornoway.

The maxima registered yesterday were below 55° in the N. of Scotland, and below 55° at all but our central and southern stations.

WIND

Moderate to fresh from the W^rd on our western coasts, and from the NW^rd in the north of Scotland.

Light to moderate from the SW^rd on our east and southeast coasts, and also over the Netherlands, Denmark and N. Germany, and strong from the same quarter in the south of Scandinavia.

Light from the N^rd in the Gulf of Bothnia.

Calm or light and variable over France and S. Germany.

WEATHER

Fine in many parts of Ireland and Scotland, as well as in Germany and the N. of Scandinavia.

Cloudy elsewhere, with showers at many of the English stations, and also at Ardrossan & Roches Pt.

Rain fell yesterday at most of our W^rn, N^rn and S^rn stations, as well as in France and Denmark; at Stornoway the amount was 1·1 in. A lunar halo was seen yesterday at Spurn Hd.

SEA

Moderate or slight generally, but rough at Dunbargh Hd. and Skudesnaes, and rather rough at Prawle Pt. and Cape Gris Ney.

PROBABLE CHANGES IN SYSTEM NOW PREVALENT

The depression noticed yesterday off the N. of Scotland is travelling away to the NE^rd. Shallow secondary disturbances are, however, passing E^rd across our Islands, and showery weather is likely to prevail for a time in most districts.

FORECASTS

For the 24 hours ending at NOON on 6TH NOV. 1898

DISTRICTS.		FORECASTS.
0	SCOTLAND NORTH	NW^ly to W^ly winds moderate, changeable, some showers.
1	SCOTLAND EAST	
2	ENGLAND N.E.	SW^ly and W^ly winds, moderate; changeable, some showers.
3	ENGLAND EAST	
4	MIDLAND COUNTIES	
5	ENGLAND SOUTH	SW^ly to W^ly winds moderate or fresh, changeable, some showers.
6	SCOTLAND WEST	W^ly and NW^ly winds, moderate; changeable, some showers.
7	ENGLAND N.W.	
8	ENGLAND S.W.	Same as No. 5.
9	IRELAND NORTH	Same as Nos. 6 and 7.
10	IRELAND SOUTH	
	WARNINGS	At 10.30 am today to district 0 and part of 1. Lower Cone.

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

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

YESTERDAY'S 2 P.M. REPORTS.

	BAR.	THER. Dry.	THER. Wet.	WIND. Direc.	F.	WEA.	SEA.
Skudesnaes ...	29.23	47	44	SW	6	r	6
Sumburgh Head	28.92	47	42	W	8	bc	6
Stornoway	29.19	48	45	W	5	r	5
Aberdeen	29.30	50	43	SW	5	bc q	3
Shields	29.57	52	48	SW	4	o	2
Ardrossan	29.50	51	51	WSW	6	o q p	5
Malin Head ...	29.48	50	48	W	6	c	6
Belmullet	29.69	51	48	W	5	o p	*
Holyhead	29.77	52	49	WSW	6	c	5

	BAR.	THER. Dry.	THER. Wet.	WIND. Direc.	F.	WEA.	SEA.
Valencia	29.86	53	49	WSW	5	o q p	6
Scilly	29.97	55	51	W	4	c	4
Jersey	30.02	56	50	NW	3	bc	3
Hurst Castle ...	29.95	55	51	W	4	c	3
Dungeness ...	29.93	55	50	WSW	4	bc	4
North Foreland	29.93	53	48	SW	3	b	2
London (Westminster)	29.89	56	48	W	4	bc	*
Yarmouth ...	29.81	53	47	SW	4	b	3
Rochefort ...	30.00	58	56	NNW	3	o	*

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

Weather in morning fine over England and the E. of Scotland, but showery in the W. and extreme N. of our Islands generally with hail at Wick. Cloudy or dull over the greater part of the Continent with fog in Austria, rain in many parts of France and N^rn Italy, as well as at Skudesnaes, and snow at Ulleaborg. Rain falling later in the W^rn, N^rn and S^rn parts of the United Kingdom, as well as in Denmark and the S^rn part of France, - heavily at Stornoway. Lunar halo seen at Spurn H.

Temperature fallen in England, and also in Scandinavia and Denmark, changed irregularly elsewhere. Morning readings highest 70° at Palermo and Tunis, and 67° at Lesina and La Calle; above 60° at the Mediterranean and Adriatic stations generally. Lowest (1) 24° at Haparanda, and 31° at Ulleaborg and Hernösand; (2) 40° at Cambridge, 41° at Brussels, and 42° in London. Daily maxima below 50° in the N. of Scotland, and below 55° in all parts of our Islands excepting the central and S^rn parts of England. Thermometer exceeding 60° in the W. and S. of France, and reaching 64° at Nice, Biarritz and Lisbon.

Wind W^rly or SW^rly over the greater part of our Islands and Northern and central Europe, but NW^rly in the north of Scotland; strong in force in many places, with a gale in the W. of Scotland. Light from the N^rd or NW^rn in the west of France, but from the S^rn or SE^rn over the central parts of that country. Calm or variable over S^rn Europe generally. Subsequently increasing to a gale from the W^rd in the Shetlands, no important change occurring elsewhere.

Barometer highest 30.1 ins. and upwards in an anticyclone lying over Portugal, and also in another system over SE^rn Europe. Lowest 28.8 ins. and less in a deep depression with its centre a little to the N^rd of the Shetlands. Depression subsequently moving away to the NE^rd, but small secondary disturbances beginning to advance E^rds across Ireland and England.

EXPLANATION OF THE 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.

N.B.—The morning observations are now made at 8 a.m. in the British Islands, Belgium, Germany, Sweden, and Norway, at 7 a.m. in France, and at 9 a.m. in Spain and Portugal. The evening observations are made at 8 p.m. at Oxford, but at 6 p.m. at the other stations in the British Islands and in France; at 8 p.m. in Sweden, Norway and Germany. The time at each Station is the Standard Time of its Country.

Subscriptions both for the Daily *and* Weekly Weather Reports *may be paid, in advance, to the* Meteorological Office.

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DAILY WEATHER REPORT

for 8 a.m. on Sunday, 6th November, 1898.

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

	STATIONS.	YESTERDAY EVENING. (See note at bottom of last page.)					THIS MORNING. (See note at bottom of last page.)									PAST 24 HOURS.				
		Barom.	Temp.	Wind.			Barometer.		Temperature.			Wind.						Temp.		
		At 32° and M.S.L.	Dry Bulb.	Direc.	Force (0 to 12.)	Weather	At 32° Fahr. and M. S. L.	Change since Yesterday.	Dry Bulb.	Wet Bulb.	Change since Yesterday.	Direc.	Force (0 to 12.)	Weather.	Sea (0 to 9.)	Weather.	Hours of Bright Sunshine.	Max.	Min.	Rainfall.
		Ins.	°				Ins.	Ins.	°	°	°							°	°	Ins.
Scandinavia	Haparanda ...	29.75	16	N	2	o	29.88	+.34	6	5	- 3	NNW	2	bc	*	o	*	21	5	-
	Hernösand ...	29.45	32	NE	8	s	29.71	+.37	28	27	- 10	N	4	b	*	s	*	41	32	0.95
	Stockholm ...	29.45	45	W	2	o	29.61	+.18	41	39	- 4	W	2	o	*	o	*	50	41	-
	Wisby	29.62	47	WSW	6	c	29.71	+.11	46	43	0	WNW	6	b	*	c	*	48	41	-
	Karlstad ...	29.44	48	SW	4	b	29.62	+.30	36	35	- 10	WSW	2	bc	*	b	*	*	*	-
	Bodö	29.47	31	E	4	b	29.67	+.39	29	25	- 3	E	6	b	2	f	*	32	28	-
	Christiansund ...	29.23	44	WSW	8	r	29.49	+.51	41	40	- 4	WNW	8	r	5	r	*	55	41	0.55
	Skudesnaes ...	29.50	45	W	4	c	29.76	+.51	44	42	- 3	WNW	2	bc	3	c	*	43	39	*
	Færder (Christiania Fjord)	29.45	46	SW	6	b	29.65	+.37	43	40	- 7	W	4	b	3	b	*	50	43	-
	Skagen (The Scaw)	29.56	46	W	3	bc	29.72	+.30	45	42	0	WNW	5	b	1	bc	*	50	45	0.20
	Fanö	29.71	48	WSW	2	c	29.86	+.26	47	44	- 2	W	4	c	*	c	*	52	45	0.16
	Sumburgh Head	29.44	43	NW	1	o	29.69	+.52	42	40	0	W	1	b	4	o	*	47	39	0.17
	Stornoway ...	29.55	40	NW	3	o	29.74	+.38	40	39	+ 1	W	3	b	3	c, o	4.4	47	35	0.20
	Wick	29.52	40	NW	3	bc	29.77	+.43	43	40	+ 3	NW	3	c	2	bc	*	48	34	0.02
	Nairn	29.57	43	W	1	c	29.80	+.39	41	40	+ 3	S	0	bc	1	c	*	51	36	0.02
	Aberdeen ...	29.58	42	W	2	b	29.87	+.42	41	39	+ 3	SW	2	bw	2	bcm.b	1.2	48	36	-
	Leith	29.64	44	W	3	c	29.90	+.42	48	45	+ 2	WSW	2	c	*	c	*	53	40	-
	Shields	29.70	48	SW	3	p	29.99	+.43	41	40	- 7	SW	2	bcw	2	b, p	*	54	39	-
	Spurn Head ...	29.73	48	WSW	3	b	30.03	+.40	45	45	- 4	WSW	3	c	3	p. b	*	52	43	0.04
	York	29.73	46	W	1	b	30.02	+.39	42	40	- 5	SW	1	b	*	b	2.2	53	38	0.10
	Loughborough ...	29.80	48	W	1	c	30.08	+.36	34	34	- 15	ESE	1	bf	*	cp. bf	*	55	34	0.05
British Islands.	Ardrossan ...	29.66	49	WSW	4	cq, p	29.90	+.38	49	49	0	SSW	4	b	3	c pq	*	50	46	0.04
	Malin Head ...	29.67	48	WNW	4	bcp	29.83	+.32	45	45	- 4	S	5	c	3	bc	*	51	44	0.11
	Belmullet ...	29.81	51	SW	2	bc	29.86	+.20	49	47	- 1	S	3	o	*	bc	*	53	45	0.03
	Donaghadee ...	29.73	47	WSW	4	c	29.84	+.34	43	43	0	WSW	4	bc	2	c	*	54	37	-
	Liverpool (Bidston)	29.80	49	SW	2	c	30.03	+.37	45	43	- 5	SSW	3	bc	3	cp	*	53	43	0.06
	Holyhead ...	29.80	52	W	3	bc	30.00	+.35	51	49	0	SW	2	bc	1	bc	*	55	45	0.02
	Parsonstown ...	29.84	47	N	0	bc	29.99	+.31	44	43	- 1	N	0	c	*	bc	5.9	54	41	-
	Valencia ...	29.90	54	WSW	3	c	29.92	+.19	50	48	- 2	S	2	cp	4	bcv, c	6.6	55	42	0.01
	Roche's Point ..	29.90	52	WNW	3	b	29.99	+.25	53	51	+ 2	S	4	c	4	b	*	57	42	-
	Pembroke (St. Ann's Hd.)	29.89	54	NW	3	b	30.03	+.30	53	51	0	SW	4	b	4	b	5.3	54	49	0.05
	Scilly	29.90	56	WNW	3	bcp	30.05	+.24	53	50	- 1	SSW	1	cw	3	bcp	5.8	58	49	0.01
	Prawle Point ...	29.90	51	WSW	3	bc	30.10	+.27	51	50	0	E	2	b	2	bc	*	56	46	-
	Jersey (St. Aubin's)	29.93	56	W	4	bc	30.13	+.19	49	49	- 7	W	3	cm	3	bc	*	59	45	0.09
	Hurst Castle ...	29.88	53	W	3	b	30.12	+.30	43	43	- 11	NE	1	of	2	b	*	57	41	0.06
	Dungeness ...	29.85	53	WSW	4	b	30.11	+.29	36	36	- 16	NW	2	f	1	bcp. b	*	56	33	0.18
	North Foreland	29.85	50	WSW	2	b	30.11	+.29	44	43	- 4	W	2	b	2	b	*	55	41	0.02
	London (Brixton) ...	29.85	54	WSW	2	bc	30.12	+.31	39	38	- 11	S	0	bfw	*	bc. b	3.8	59	37	-
	Oxford	29.90	46	SW	1	b	30.12	+.33	38	38	- 10	S	0	f	*	p. b	*	56	36	-
	Cambridge ...	29.83	48	SW	2	b.	30.11	+.34	38	38	- 9	SSW	1	bf	*	b	1.3	57	35	0.02
	Yarmouth ...	29.76	50	WSW	2	c	30.07	+.32	41	40	- 7	WSW	2	bm	2	c	*	53	38	0.09
Germany & Holland.	Cuxhaven ...	29.73	49	SW	5	o	29.93	+.19	46	45	+ 3	SW	3	b	*	b, r	*	50	48	0.24
	Berlin	29.90	42	WSW	2	o	29.99	+.05	44	42	+ 8	WSW	2	c	*	o	*	50	36	-
	Wiesbaden ...	*	*	*	*	*	30.17	+.20	40	39	- 5	S	0	c	*	*	*	50	36	-
	Munich... ..	29.99	48	SE	1	c	30.17	+.16	45	45	+ 1	W	3	o	*	c	*	55	45	0.24
	The Helder ...	29.75	53	WSW	2	b	30.01	+.27	53	49	- 1	WNW	2	bc	2	b	*	54	50	0.12
Belgium.	Brussels ...	*	*	*	*	*	30.16	+.23	43	43	- 1	SW	1	f	*	b	*	54	41	-
	Cape Gris Nez...	?	55	W	5	o	?	?	52	48	- 2	WNW	1	bc	2	o	*	55	46	0.32
	Paris	30.00	45	S	1	o	30.17	+.20	36	36	- 3	S	1	m	*	o	*	51	36	-
	Brest	29.94	53	WNW	3	c	30.11	+.24	51	50	- 3	NE	1	bc	2	c	*	59	48	0.24
	Lorient... ...	30.02	56	W	4	c	30.15	+.18	47	46	- 4	S	1	m	5	c	*	61	45	0.16
France &	Rochefort ...	30.05	54	E	1	b	30.16	+.20	49	48	- 4	E	3	b	*	o. b	*	59	46	-
	Belfort	29.93	53	WSW	2	m	30.18	+.24	44	41	?	E	2	m	*	m	*	58	43	0.16
	Lyons	30.00	49	SSE	1	bc	30.17	+.18	45	45	- 1	NNW	2	c	*	bc	*	55	?	-
	Nice	29.89	61	E	2	c	29.91	-.00	58	53	+ 2	E	2	c	2	c	*	68	56	-
	Perpignan ...	29.95	63	NW	3	o	30.04	+.14	55	52	- 4	S	2	bc	*	o	*	63	53	-
	Biarritz ...	29.99	61	NW	3	r	30.10	+.16	51	50	- 8	E	2	c	1	r	*	63	50	0.28
Penin-sula.	Corunna ...																*			
	Lisbon	30.09	57	N	4	b	30.10	+.10	56	53	- 3	NNE	1	b	*	b	*	64	54	-
	Azores (P. Delgada)	30.02	64	SW	3	bc	29.91	+.23	61	58	- 1	NW	2	c	3	bc	*	70	59	0.82

For Explanation of Columns, see bottom of last page. † *Received too late for Insertion in Charts on next page.*

NOTE: *The Sunshine for London given in this Table is now recorded on the tower of the Wesleyan Training College, Westminster.*

Bright Sunshine yesterday Southport 4.3 hrs;

WEATHER CHARTS

FOR Sunday, 6th November, 1898

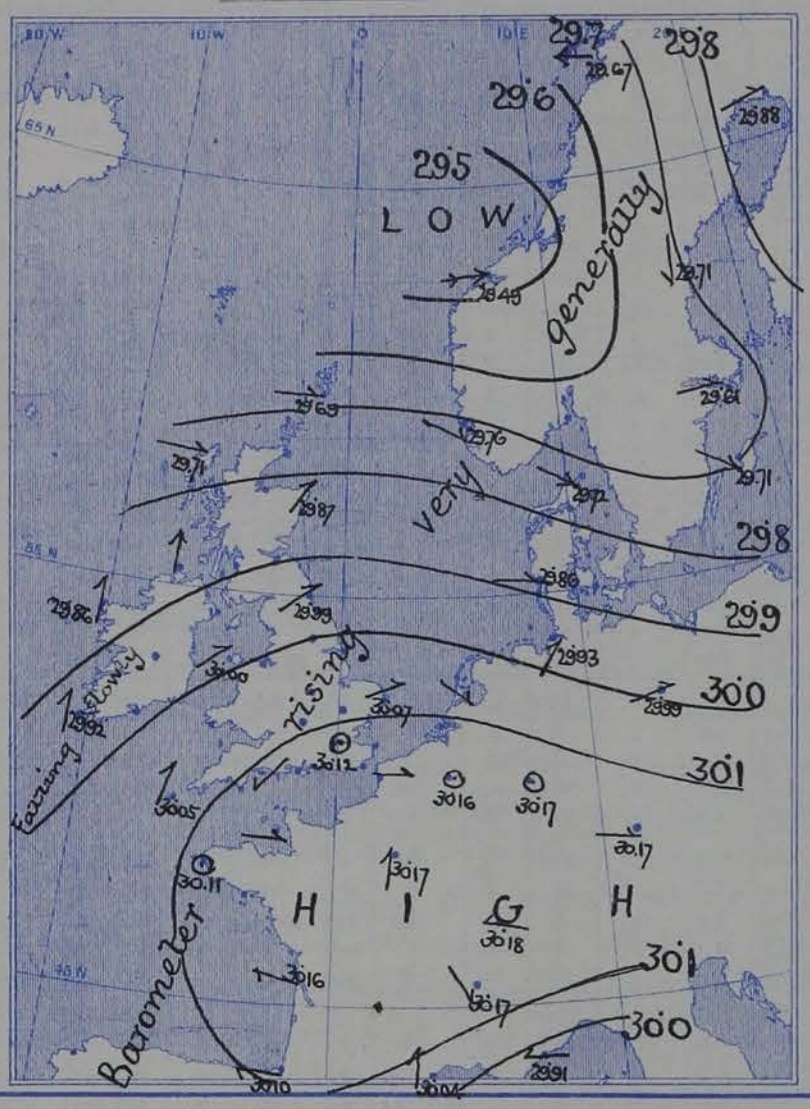
BAROMETER, WIND AND SEA.

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

WIND—Arrows shew Directions and Force, flying with the wind.

Force above 10 ⟫⟶ ; Force 5 to 7 ⟶ ; } Calm ⊙
Force 8 to 10 ⟩⟶ ; Force 1 to 4 ⟶ ; }

SEA—Rough ; High

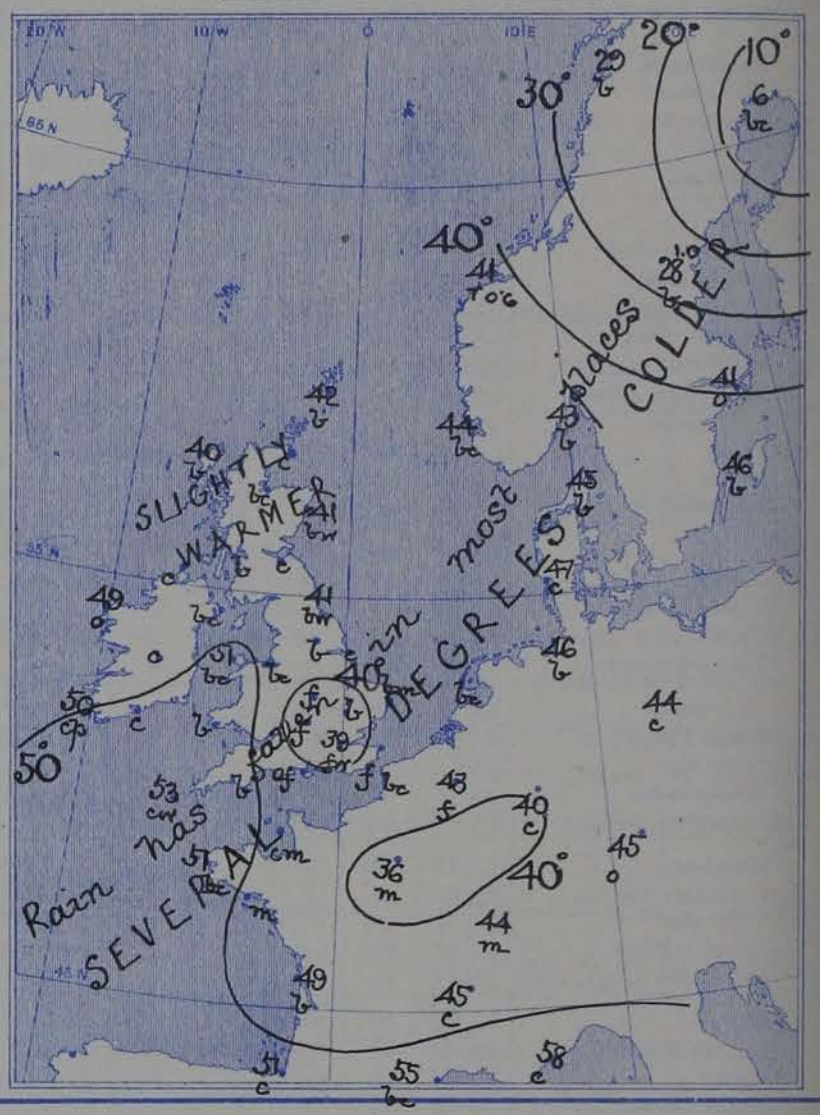


TEMPERATURE & WEATHER.

TEMPERATURE—Isotherms are drawn for each 10°.

WEATHER—Shown by Letters of the Beaufort Scale.

RAINFALL—A dotted line separates areas where rain has fallen from those without rain. The fall in past 24 hours when exceeding half an inch is shown thus—0·6.



VALUES FOR PRESSURE, TEMPERATURE, RAINFALL, AND BRIGHT SUNSHINE IN THE MONTH OF NOVEMBER.

STATIONS.	PRESSURE AT 8 A.M. Means, 1871—95.	TEMPERATURE OF AIR. 1871-95. Means of				Absolute Extremes.				RAINFALL. Means, 1866—95.	BRIGHT SUNSHINE. Means, 1881—95.	
		Dry Bulb 8 a.m.	Wet Bulb 8 a.m.	Daily Maximum.	Daily Minimum.	Maximum	Years.	Minimum.	Years.		Hours.	Per cent. of possible.
	(Inches.)	°	°	°	°	°		°		(Inches.)		
Sumburgh Head	29 · 693	42 · 3	40 · 6	45 · 8	38 · 2	55	1890	21	1875	4 · 14	—	—
Stornoway	29 · 703	42 · 0	41 · 0	46 · 4	37 · 1	56	1881	20	1880	4 · 80	42 · 1	18
Wick	29 · 728	41 · 6	40 · 1	46 · 2	36 · 4	58	1885, 89	15	1884	2 · 93	—	—
Nairn	29 · 743	40 · 0	38 · 4	45 · 7	35 · 5	61	1885, 94	18	1880	2 · 14	—	—
Aberdeen	29 · 772	40 · 7	38 · 9	46 · 3	36 · 7	62	1872, 89	15	1880, 84	3 · 16	54 · 7	23
Leith	29 · 798	41 · 8	40 · 1	48 · 2	37 · 1	64	1872	18	1885	2 · 05	—	—
Shields	29 · 824	42 · 4	40 · 8	47 · 6	38 · 0	62	1881, 94	20	1880	2 · 39	—	—
Spurn Head	29 · 854	43 · 5	42 · 2	47 · 1	40 · 4	61*	1894, 95	28*	1884	2 · 28	—	—
York	29 · 859	40 · 9	39 · 7	47 · 7	36 · 6	62	1894, 95	14	1871	2 · 21	39 · 7	16
Loughborough	29 · 888	40 · 7	39 · 5	48 · 4	36 · 7	63*	1881, 93, 94, 95	19*	1887, 93	2 · 21	—	—
Ardrossan	29 · 799	43 · 3	41 · 6	47 · 9	39 · 2	69	1872	21	1880	3 · 78	—	—
Malin Head	29 · 755	43 · 9	42 · 0	48 · 0	40 · 9	—	—	—	—	—	—	—
Belmullet	29 · 799	45 · 3	43 · 3	49 · 4	41 · 5	—	—	—	—	5 · 92	—	—
Donaghadee	29 · 819	43 · 4	42 · 3	48 · 5	39 · 4	60	1894	27	1878, 83	3 · 10	—	—
Holyhead	29 · 845	45 · 9	44 · 2	49 · 8	42 · 9	62	1881	29	1880	3 · 96	—	—
Liverpool	29 · 862	42 · 7	40 · 9	48 · 0	39 · 7	63	1872	22	1880	2 · 81	—	—
Parsonstown	29 · 852	41 · 8	40 · 3	49 · 1	37 · 0	62	1874	20	1890	2 · 86	63 · 1	25
Valencia	29 · 867	47 · 4	45 · 5	52 · 3	42 · 9	63	1881	27	1890	5 · 63	63 · 8	25
Roche's Point	29 · 869	46 · 2	44 · 6	51 · 2	42 · 0	61	1875	27	1890	4 · 79	—	—
Pembroke	29 · 871	47 · 1	45 · 4	50 · 3	43 · 6	58	1884, 95	28	1890	4 · 04	58 · 8	23
Scilly	29 · 898	50 · 1	48 · 1	52 · 6	46 · 6	60	1875, 81	29	1890	3 · 80	—	—
Prawle Point	29 · 917	46 · 4	44 · 9	51 · 2	42 · 1	61*	1881	19*	1890	3 · 26	—	—
Jersey	29 · 937	48 · 0	46 · 0	52 · 3	44 · 3	64	1874, 81	16	1890	4 · 19	70 · 9	26
Hurst Castle	29 · 912	45 · 3	44 · 3	50 · 7	41 · 0	66	1874	20	1890	3 · 11	—	—
Dover	29 · 904	44 · 7	43 · 3	49 · 7	40 · 9	61	1895	17	1890	3 · 30	—	—
LONDON	29 · 910	42 · 5	41 · 1	49 · 6	38 · 3	65	1894	19	1879	2 · 31	29 · 5†	11†
Oxford	29 · 908	41 · 4	40 · 2	48 · 5	37 · 7	68	1881	19	1871, 87	2 · 42	55 · 4	22
Cambridge	29 · 901	41 · 0	40 · 1	48 · 9	36 · 0	65	1895	15	1890	2 · 07	61 · 7	24
Yarmouth	29 · 879	43 · 4	42 · 2	47 · 7	39 · 2	60	1895	23	1890	2 · 92	—	—

* Extremes of temperature at these Stations are from observations made during the 15 years—1881-95. † The Sunshine values are for Westminster.

GENERAL SITUATION AT 8 A.M.

PRESSURE — Highest 30.1 ins. and upwards in an anticyclone over the S. of England and the greater part of France & S. Germany. Lowest 29.5 ins. and less in a depression lying off the west of Norway. Gradients slight. Barometer rising in most places, but beginning to fall again in the W. of Ireland.

TEMPERATURE — Highest (1) 58° at Nice, 56° at Lisbon, and 55° at Perpignan; (2) 53° at Roche's Pt, Pembroke & Scilly. Lowest (1) 6° at Haparanda, 28° at Hernösand, and 29° at Bodö; (2) 34° at Loughborough, and 36° at Dungeness and Paris.
Ground frost occurred last night in many parts of Gt. Britain; in London and at Loughborough the thermometer on the grass fell to 29°.

WIND — Light to moderate from the S.wd. in the west of Ireland, and from the SW.wd. in most parts of Gt. Britain, but rather variable at the Channel stations.
W. in the north of Scotland and also over the greater part of Scandinavia, Denmark and Germany, with a gale at Christiansund.
Light from the E.wd. over the southern parts of France.

WEATHER — Fine over W.rn Europe as a whole, but foggy over the central and S.rn parts of England, and cloudy in the W. of Ireland, with showers at Valencia. Rain was falling at Christiansund.
Rain fell yesterday in most parts of our area, the largest amount being slight as a rule, but large at Christiansund. Heavy snow fell at Hernösand.

SEA — Rather rough at Christiansund and moderate on our SW. coasts, but slight or smooth elsewhere.

PROBABLE CHANGES IN SYSTEM NOW PREVALENT

FORECASTS

For the 24 hours ending at NOON on 7TH NOVEMBER 1898

DISTRICTS.	FORECASTS.	DISTRICTS.	FORECASTS.
0 SCOTLAND NORTH	NONE ISSUED	6 SCOTLAND WEST	NONE ISSUED
1 SCOTLAND EAST		7 ENGLAND N.W.	
2 ENGLAND N.E.		8 ENGLAND S.W.	
3 ENGLAND EAST		9 IRELAND NORTH	
4 MIDLAND COUNTIES		10 IRELAND SOUTH	
5 ENGLAND SOUTH			NONE ISSUED

WARNINGS

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

YESTERDAY'S 2 P.M. REPORTS.

	BAR.	THER. Dry.	THER. Wet.	WIND. Direc.	F.	WEA.	SEA.
Skudesnaes ...	29.38	48	45	WSW	6	c	5
Sumburgh Head	29.34	45	41	WNW	3	c	5
Stornoway	29.46	47	44	NW	2	c	2
Aberdeen	29.50	48	44	SW	1	bcm	2
Shields	29.62	52	48	SW	2	b	2
Ardrossan	29.51	49	47	WSW	4	cqjp	3
Malin Head ...	29.59	49	46	W	5	bc	4
Belmullet	29.75	52	48	NW	3	bc	*
Holyhead	29.73	53	50	W	3	bc	2

	BAR.	THER. Dry.	THER. Wet.	WIND. Direc.	F.	WEA.	SEA
Valencia	29.83	54	51	W	4	bcv	4
Scilly	29.84	56	53	W	4	cjp	3
Jersey	29.90	51	52	WSW	5	bc	4
Hurst Castle ...	29.82	57	54	WSW	3	bc	3
Dungeness ...	29.79	54	53	SW	6	bcjp	4
North Foreland	29.80	55	52	WSW	2	bc	1
London (Westminster)	29.78	58	52	WSW	3	bc	*
Yarmouth ...	29.74	53	51	WSW	3	c	4
Rochefort ...	29.99	57	55	NE	2	0	*

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

Weather in morning cloudy and showery over the United Kingdom. Dull over the greater part of the Continent, with fog or mist in many places, and rain at Christiansund as well as at Madrid, and several of the Mediterranean stations; thunderstorms reported at Lacalle. Fine in the north of Scandinavia. Showers falling later in nearly all parts of W^rn. Europe, and heavy snow at Hernösand.

Temperature risen over England as well as in Scandinavia, Denmark and many parts of S^rn. Europe; fallen in most other localities. Morning readings highest 73° at Palermo, 71° at Malta, and 70° at Cagliari; above 65° at several of the Mediterranean and Adriatic stations. Lowest 9° at Haparanda, 19° at Ulcaborg and Archangel, and 28° at Tromsö; lowest in our Islands 38° at Nairn and Aberdeen. Rising during day to 55° and upwards at several of our central and southern stations; exceeding 60° in the west and south of France, and reaching 68° at Nice. Ground frost occurring at night in many parts of Gt. Britain.

Wind light to fresh from the NW^wd. in the north of Scotland, from the W^wd. on our western coasts, and from the SW^wd. over England, the north of France, the Netherlands, Denmark and north Germany. Strong from the SW^wd. or W^wd. in the south of Scandinavia; light from the N^wd. over Finland and the Gulf of Bothnia. Calm or variable over France, Austria and the south of Russia; SE^ly. over Italy and the Adriatic; E^ly. in the Riviera, N^ly. over the Spanish Peninsula. Subsequently backing to the SW^wd. in the west of Ireland; no important change occurring elsewhere.

Barometer highest 30.1 ins. and upwards over Turkey and Greece; 30.0 ins. and upwards in an anticyclone lying over the southeastern parts of Europe generally. Lowest 29.0 ins. and less in a well marked depression with its centre off the W. of Norway; 29.3 ins. and less in another disturbance over the N. of Russia; 29.8 ins. and less in two shallow systems,—one lying over central Spain and the other over the western parts of the Mediterranean. Barometer rising over W^rn. Europe during day.

EXPLANATION OF THE 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.

N.B.—The morning observations are now made at 8 a.m. in the British Islands, Belgium, Germany, Sweden, and Norway, at 7 a.m. in France, and at 9 a.m. in Spain and Portugal. The evening observations are made at 8 p.m. at Oxford, but at 6 p.m. at the other stations in the British Islands and in France; at 8 p.m. in Sweden, Norway and Germany. The time at each Station is the Standard Time of its Country.

Subscriptions both for the Daily *and* Weekly Weather Reports *may be paid, in advance, to the* Meteorological Office.

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DAILY WEATHER REPORT

for 8 a.m. on Monday, 7th November, 1898.

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

	STATIONS.	YESTERDAY EVENING. (See note at bottom of last page.)					THIS MORNING. (See note at bottom of last page.)								PAST 24 HOURS.				
		Barom.	Temp.	Wind.		Weather	Barometer.		Temperature.			Wind.		Weather.	Sea (0 to 9.)	Weather.	Hours of Bright Sunshine.	Temp.		Rainfall.
		At 32° and M.S.L.	Dry Bulb.	Direc.	Force (0 to 12.)		At 32° Fahr. and M. S. L.	Change since Yesterday.	Dry Bulb.	Wet Bulb.	Change since Yesterday.	Direc.	Force (0 to 12.)					Max.	Min.	
		Ins.	°				Ins.	Ins.	°	°	°							°	°	Ins.
Scandinavia	Haparanda ...	30.06	9	N	2	bc	30.27	+ .39	17	15	+ 11	N	2	0	*	bc	*	18	-2	-
	Hernösand ...	30.05	37	N	2	0	30.28	+ .57	28	27	0	N	2	0	*	0	*	32	25	-
	Stockholm ...	30.01	33	N	2	b	30.28	+ .67	33	31	- 8	N	2	0	*	b	*	43	30	-
	Wisby	29.99	43	W	4	b	30.29	+ .58	40	36	- 6	N	4	b	*	b	*	46	40	-
	Karlstad ...	30.01	32	N	2	f	30.25	+ .63	34	32	- 2	W	2	0	*	f	*	*	*	-
	Bodö	29.90	27	E	5	b	30.09	+ .42	26	21	- 3	E	5	b	2	b	*	30	23	2.00
	Christiansund ...	29.89	41	NNW	8	r	30.03	+ .52	42	39	+ 1	ESE	3	0	4	r	*	44	39	1.46
	Skudesnaes ...	30.02	44	W	2	c	30.07	+ .31	49	48	+ 5	SSE	6	0	3	c	*	46	39	*
	Færder (Christiania Fjord)	29.99	45	NNW	2	b	30.21	+ .56	40	38	- 3	W	2	bc	2	bc	*	46	39	-
	Skagen (The Scaw)	30.10	46	W	4	b	30.25	+ .43	42	42	- 3	SW	1	c	0	b	*	50	42	-
	Fanö	30.19	46	WNW	2	b	30.25	+ .00	48	47	+ 1	WSW	2	0	*	b	*	52	45	-
British Islands	Sumburgh Head	29.81	44	WSW	1	c	29.74	+ .05	50	49	+ 8	SSW	3	0	4	c	*	51	40	0.05
	Stornoway ...	29.69	48	SW	4	0	29.66	- .08	50	49	+ 10	WSW	4	0	4	cp.0	3.4	50	38	0.45
	Wick	29.81	49	SW	4	c	29.75	- .02	53	51	+ 10	S	4	0	2	c	*	53	40	-
	Nairn	29.82	44	E	0	bc	29.77	- .03	52	48	+ 11	W	2	bc	1	bc	*	52	39	0.01
	Aberdeen ...	29.91	46	SW	3	cg	29.87	.00	49	47	+ 8	SW	3	c	2	cg	3.3	50	41	-
	Leith	29.94	50	S	1	bc	29.89	- .01	50	47	+ 2	E	0	bc	*	bc	*	53	46	-
	Shields	30.00	50	SSW	2	m	29.98	- .01	44	44	+ 3	S	3	0 m	2	m	*	52	39	-
	Spurn Head ...	30.08	49	S	3	b	30.05	+ .02	50	49	+ 5	S	4	c	4	b.bw	*	56	45	-
	York	30.06	47	WSW	1	b	30.04	+ .02	45	45	+ 3	S	2	0	*	b m	4.1	55	42	-
	Loughborough ...	30.11	47	SW	1	b	30.07	- .01	46	46	+ 12	SSE	3	0 m	*	bc.b.m	*	59	34	-
	Ardrossan ...	29.87	51	S	4	bc	29.88	- .07	51	51	+ 2	ESE	3	0	3	bc	*	51	49	-
	Malin Head ...	29.76	50	S	4	c	29.68	- .15	51	49	+ 6	S	4	0	2	c	*	51	45	-
	Belmullet ...	29.76	53	SSW	6	r	29.60	- .26	52	50	+ 3	SSE	3	0	*	c.r	*	53	48	0.04
	Donaghadee ...	29.89	51	SSW	4	0	29.82	- .12	53	52	+ 10	SSW	5	c	3	0	*	54	41	0.02
	Liverpool (Bidston)	30.04	46	S	2	0	29.96	- .07	47	45	+ 2	SE	4	6	3	c.m	*	54	40	-
	Holyhead ...	29.98	52	SW	3	c	29.88	- .12	52	49	+ 1	S	5	c	4	c	*	55	49	0.13
	Parsonstown ...	29.87	52	SE	2	0	29.70	- .29	52	50	+ 8	SE	2	or	*	c.or	3.6	55	43	0.02
	Valencia ...	29.80	55	S	5	0pm	29.56	- .37	55	54	+ 5	SSE	6	gru	6	0pm	0.3	55	49	0.25
	Roche's Point ...	29.90	55	S	5	r	29.66	- .33	56	54	+ 3	S	8	c	5	p	*	56	49	0.06
	Pembroke (St. Ann's Hd.)	30.00	52	SW	4	bc	29.86	- .17	54	53	+ 1	SSE	6	bc	4	bc	5.8	56	53	-
	Scilly	29.99	55	SSE	4	c	29.80	- .25	55	53	+ 2	SE	7	c	4	c	4.1	58	49	-
	Prawle Point ...	30.10	53	SSW	2	b	29.97	- .13	55	50	+ 4	SSE	5	bc	4	b.c	*	58	49	-
	Jersey (St. Aubin's)	30.12	52	SE	3	bc	30.00	- .13	51	49	+ 2	SE	4	bcm	3	bc	*	61	48	0.01
	Hurst Castle ...	30.11	53	SSW	3	bcp	30.03	- .09	54	52	+ 11	SE	3	c	2	bc.p	*	57	44	0.02
	Dungeness ...	30.14	55	SSW	2	bc	30.12	+ .01	43	47	+ 12	SE	3	0	3	b.bc	*	59	55	-
	North Foreland	30.18	54	SSE	2	b	30.15	+ .04	48	47	+ 14	SE	3	0	2	b	*	55	44	-
	London (Brixton) ...	30.13	51	S	1	bc	30.11	- .01	47	46	+ 8	SSE	2	bcm	*	bc.bmw	2.5	59	35	-
	Oxford	30.12	50	NE	1	0	30.09	- .05	44	44	+ 6	SSE	1	0m	*	bc.c	*	57	38	-
	Cambridge ...	30.15	46	SW	1	0	30.11	.00	50	49	+ 12	S	1	c	*	b.0	6.9	59	36	-
	Yarmouth ...	30.11	50	SSW	2	b	30.13	+ .06	50	49	+ 9	S	3	c	3	b	*	52	39	0.01
Germany & Holland	Cuxhaven ...	30.13	46	W	2	b	30.30	+ .37	36	35	- 10	S	2	c	*	b	*	52	36	0.04
	Berlin	30.24	46	WSW	2	b	30.36	+ .35	35	35	- 9	NW	0	c	*	b	*	50	35	-
	Wiesbaden ...	*	*	*	*	*	30.30	+ .13	37	37	- 3	S	1	c	*	*	*	52	36	-
	Munich	30.31	39	W	0	b	30.28	+ .11	39	39	- 6	E	1	c	*	b	*	44	30	0.04
	The Helder ...	30.19	49	WSW	1	b	30.22	+ .21	43	42	- 10	SSE	1	c	1	b	*	55	36	-
Belgium.	Brussels ...	*	*	*	*	*	30.22	+ .06	37	37	- 6	ENE	2	c	*	b	*	60	33	-
	Cape Gris Nez ...	?	51	SE	1	m	?	?	45	43	- 7	SE	1	c	1	m	*	57	41	-
	Paris	30.21	43	W	0	bc	30.15	- .02	43	42	+ 1	E	2	c	*	bc	*	55	36	-
	Brest	30.07	57	SSE	2	bc	29.92	- .19	50	50	- 1	SE	3	bc	2	bc	*	55	48	-
	Lorient	30.11	54	SE	1	b	29.97	- .18	47	46	0	ESE	4	0	4	b	*	61	45	-
France	Rochefort ...	30.12	54	ESE	3	b	30.00	- .16	45	44	- 4	SE	3	b	*	b	*	66	41	-
	Belfort	30.21	46	ENE	7	bc	30.17	- .01	41	40	- 3	ENE	5	m	*	bc	*	53	39	-
	Lyons	30.17	50	NW	1	0	30.17	.00	42	42	- 3	ENE	1	b	*	0	*	54	41	-
	Nice	29.98	58	E	2	b	30.06	+ .15	55	50	- 3	E	1	b	2	b	*	70	52	-
	Perpignan ...	30.07	55	W	2	b	30.08	+ .04	46	46	- 9	SW	1	c	*	b	*	67	43	-
	Biarritz ...	30.04	56	ENE	3	b	29.95	- .15	55	50	+ 4	SSE	3	b	2	b	*	61	51	-
Peninsula.	Corunna ...																*			
	Lisbon	30.06	56	NE	1	b	30.04	- .06	55	53	- 1	W	0	b	*	b	*	66	52	-
	Azores (P. Delgada)	30.11	58	NW	3	bc	30.19	+ .28	56	50	- 5	NW	2	bc	3	bc	*	70	55	-

For Explanation of Columns, see bottom of last page. † *Received too late for Insertion in Charts on next page.*

NOTE: *The Sunshine for London given in this Table is now recorded on the tower of the Wesleyan Training College, Westminster.*

Bright Sunshine yesterday Southport 2.3 hrs:

WEATHER CHARTS

FOR Monday, 7th November, 1898

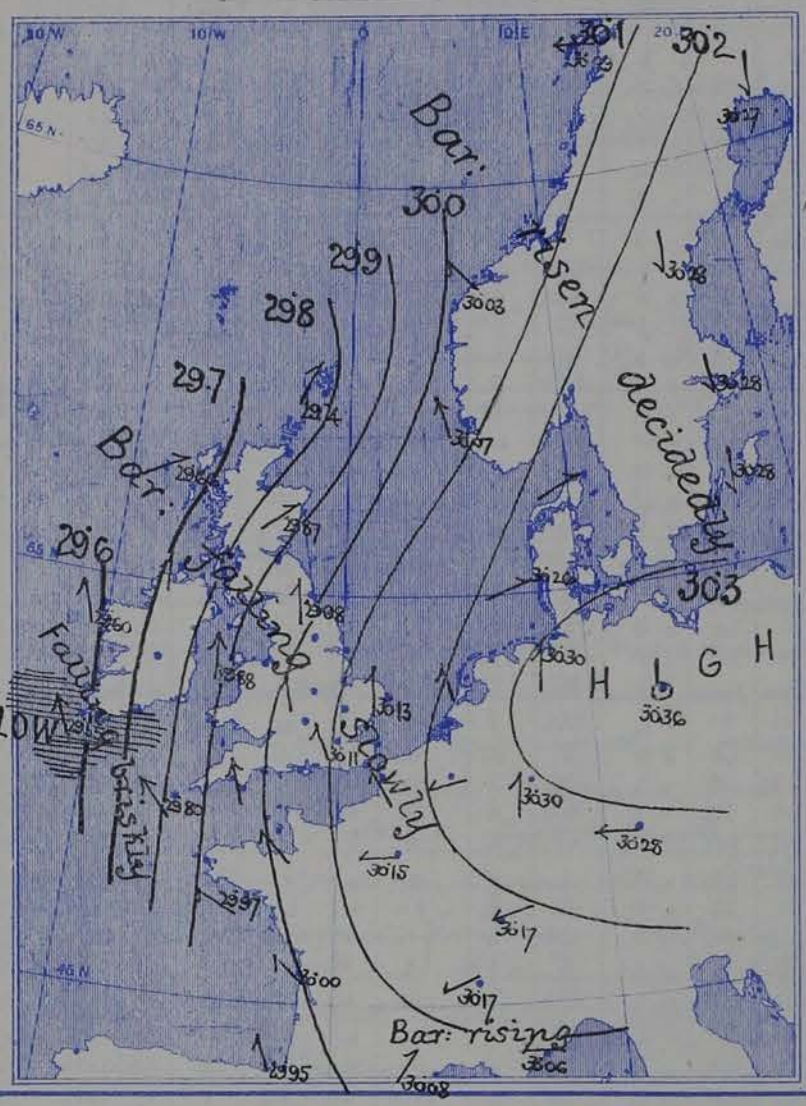
BAROMETER, WIND AND SEA.

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

WIND—Arrows shew Directions and Force, flying with the wind.

Force above 10 ⟶⟶ ; Force 5 to 7 ⟶ ; } Calm ⊙
Force 8 to 10 ⟶ ; Force 1 to 4 ⟶ ; }

SEA—Rough ▤ ; High ▩

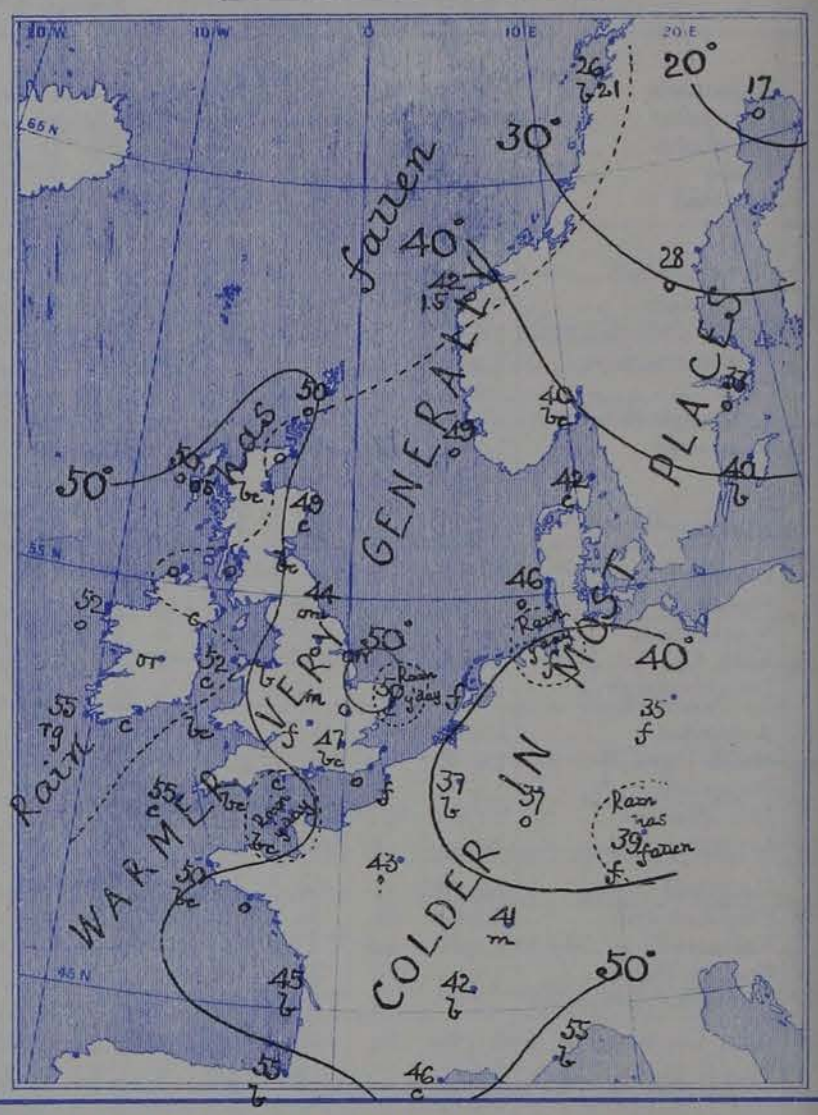


TEMPERATURE & WEATHER.

TEMPERATURE—Isotherms are drawn for each 10°.

WEATHER—Shown by Letters of the Beaufort Scale.

RAINFALL—A dotted line separates areas where rain has fallen from those without rain. The fall in past 24 hours when exceeding half an inch is shown thus—0·6.



VALUES FOR PRESSURE, TEMPERATURE, RAINFALL, AND BRIGHT SUNSHINE IN THE MONTH OF NOVEMBER.

STATIONS.	PRESSURE AT 8 A.M. Means, 1871—95.	TEMPERATURE OF AIR. 1871-95.								RAINFALL. Means, 1866—95.	BRIGHT SUNSHINE. Means, 1881—95.	
		Means of				Absolute Extremes.						
		Dry Bulb 8 a.m.	Wet Bulb 8 a.m.	Daily Maximum.	Daily Minimum.	Maximum	Years.	Minimum.	Years.		Hours.	Per cent. of possible.
	(*Inches.*)	°	°	°	°	°		°		(*Inches.*)		
Sumburgh Head	29 · 693	42 · 3	40 · 6	45 · 8	38 · 2	55	1890	21	1875	4 · 14	—	—
Stornoway	29 · 703	42 · 0	41 · 0	46 · 4	37 · 1	56	1881	20	1880	4 · 80	42 · 1	18
Wick	29 · 728	41 · 6	40 · 1	46 · 2	36 · 4	58	1885, 89	15	1884	2 · 93	—	—
Nairn	29 · 743	40 · 0	38 · 4	45 · 7	35 · 5	61	1885, 94	18	1880	2 · 14	—	—
Aberdeen	29 · 772	40 · 7	38 · 9	46 · 3	36 · 7	62	1872, 89	15	1880, 84	3 · 16	54 · 7	23
Leith	29 · 798	41 · 8	40 · 1	48 · 2	37 · 1	64	1872	18	1885	2 · 05	—	—
Shields	29 · 824	42 · 4	40 · 8	47 · 6	38 · 0	62	1881, 94	20	1880	2 · 39	—	—
Spurn Head	29 · 854	43 · 5	42 · 2	47 · 1	40 · 4	61*	1894, 95	28*	1884	2 · 28	—	—
York	29 · 859	40 · 9	39 · 7	47 · 7	36 · 6	62	1894, 95	14	1871	2 · 21	39 · 7	16
Loughborough	29 · 888	40 · 7	39 · 5	48 · 4	36 · 7	63*	1881, 93, 94, 95	19*	1887, 93	2 · 21	—	—
Ardrossan	29 · 799	43 · 3	41 · 6	47 · 9	39 · 2	69	1872	21	1880	3 · 78	—	—
Malin Head	29 · 755	43 · 9	42 · 0	48 · 0	40 · 9	—	—	—	—	—	—	—
Belmullet	29 · 799	45 · 3	43 · 3	49 · 4	41 · 5	—	—	—	—	5 · 92	—	—
Donaghadee	29 · 819	43 · 4	42 · 3	48 · 5	39 · 4	60	1894	27	1878, 83	3 · 10	—	—
Holyhead	29 · 845	45 · 9	44 · 2	49 · 8	42 · 9	62	1881	29	1880	3 · 96	—	—
Liverpool	29 · 862	42 · 7	40 · 9	48 · 0	39 · 7	63	1872	22	1880	2 · 81	—	—
Parsonstown	29 · 852	41 · 8	40 · 3	49 · 1	37 · 0	62	1874	20	1890	2 · 86	63 · 1	25
Valencia	29 · 867	47 · 4	45 · 5	52 · 3	42 · 9	63	1881	27	1890	5 · 63	63 · 8	25
Roche's Point	29 · 869	46 · 2	44 · 6	51 · 2	42 · 0	61	1875	27	1890	4 · 79	—	—
Pembroke	29 · 871	47 · 1	45 · 4	50 · 3	43 · 6	58	1884, 95	28	1890	4 · 04	58 · 8	23
Scilly	29 · 898	50 · 1	48 · 1	52 · 6	46 · 6	60	1875, 81	29	1890	3 · 80	—	—
Prawle Point	29 · 917	46 · 4	44 · 9	51 · 2	42 · 1	61*	1881	19*	1890	3 · 26	—	—
Jersey	29 · 937	48 · 0	46 · 0	52 · 3	44 · 3	64	1874, 81	16	1890	4 · 19	70 · 9	26
Hurst Castle	29 · 912	45 · 3	44 · 3	50 · 7	41 · 0	66	1874	20	1890	3 · 11	—	—
Dover	29 · 904	44 · 7	43 · 3	49 · 7	40 · 9	61	1895	17	1890	3 · 30	—	—
LONDON	29 · 910	42 · 5	41 · 1	49 · 6	38 · 3	65	1894	19	1879	2 · 31	29 · 5†	11†
Oxford	29 · 908	41 · 4	40 · 2	48 · 5	37 · 7	68	1881	19	1871, 87	2 · 42	55 · 4	22
Cambridge	29 · 901	41 · 0	40 · 1	48 · 9	36 · 0	65	1895	15	1890	2 · 07	61 · 7	24
Yarmouth	29 · 879	43 · 4	42 · 2	47 · 7	39 · 2	60	1895	23	1890	2 · 92	—	—

* Extremes of temperature at these Stations are from observations made during the 15 years—1881-95.

† The Sunshine values are for Westminster.

GENERAL SITUATION AT 8 A.M.

PRESSURE

Highest 30·3 ins. and upwards over Germany and the Baltic; 30·0 ins. and upwards in an anticyclone embracing the W.ly and central parts of the Continent and the E.ly and central parts of England.
Lowest 29·6 ins. and less in a depression off the W. of Ireland.
Gradients moderate or slight generally, but increasing over our W.ly coasts.
Barometer falling in most parts of our Islands and France, – briskly in the SW., rising in Scandinavia, Denmark and N. Germany.

TEMPERATURE

Highest 56° at Roche's Pt., 55° at Valencia (Ireland), Scilly, Prawle Pt., Biarritz and Lisbon, and 54° at Pembroke and Hurst Castle.
Lowest 17° at Haparanda, 26° at Bodo, 28° at Hernösand, and 33° at Stockholm; lowest in our Islands 44° at Shields and Oxford.
During yesterday the thermometer rose to 55° and upwards in most parts of England and the S. of Ireland, and to 61° at Jersey.

WIND

E. ly over South Germany and central France; SE. ly over the west of France and the southern parts of our Islands generally, and strong to a gale in force on our SW. coasts.
Light to moderate from the S.ward or SW.ward in Scotland, but SE. ly or E. ly in the west of Norway; N. ly in Sweden; SW. ly in Denmark.

WEATHER

Fair or fine over W.rn Europe as a whole, but dull in Scandinavia and the extreme N. and NW. of our Islands and raining in the S. of Ireland.
Fog prevailed in many parts of Germany, the Netherlands and the N. of France.
Since yesterday morning rain has fallen at many of our own SW.rn W.rn and extreme N.rn stations, – rather heavily at Stornoway. Large amounts have been measured in the W. of Norway, – as much as 2·1 ins. at Bodo, and 1·5 in. at Christiansund.

SEA

Rough off the S. of Ireland, but moderate to smooth elsewhere.

PROBABLE CHANGES IN SYSTEM NOW PREVALENT

A rather deep depression is approaching the S. of Ireland, and the wind seems likely to increase to a gale from S. or SE. on most parts of our W.rn coasts, with rain. In the E.rn districts fair weather is likely to continue for a time.

FORECASTS

For the 24 hours ending at NOON on 8TH NOV. 1898

DISTRICTS.		FORECASTS.
▼ 0	SCOTLAND NORTH	SW. ly to S. ly or SE. ly winds increasing in force, fair at first, some rain later.
▼ 1	SCOTLAND EAST	
2	ENGLAND N.E.	Same as No. 5.
3	ENGLAND EAST	
4	MIDLAND COUNTIES	
5	ENGLAND SOUTH	S. ly and SE. ly winds, freshening, fair generally.
▼ 6	SCOTLAND WEST	S. ly and SE. ly winds increasing to a gale, fair at first, some rain later.
▼ 7	ENGLAND N.W.	
▼ 8	ENGLAND S.W.	
▼ 9	IRELAND NORTH	SE. ly gales and strong winds; dull, some rain.
▼ 10	IRELAND SOUTH	
	WARNINGS	At 7 from yesterday to districts 0, 6 at 6 and parts of 1 and 9, and 10 am today to districts 7, 8, and the remainder of 9 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.	THER. Dry.	THER. Wet.	WIND. Direc.	F.	WEA.	SEA.
Skudesnaes ...	29.92	46	43	WNW	4	c	3
Sumburgh Head							
Stornoway	29.72	50	47	S	3	cp	3
Aberdeen							
Shields							
Ardrossan							
Malin Head ...	29.77	50	48	SSW	4	c	3
Belmullet	29.79	53	49	S	4	c	*
Holyhead							

	BAR.	THER. Dry.	THER. Wet.	WIND. Direc.	F.	WEA.	SEA.
Valencia							
Scilly							
Jersey	30.14	60	55	SSW	3	bc	3
Hurst Castle ...							
Dungeness ...	30.14	58	55	SSW	2	b	1
North Foreland	30.16	55	51	SSE	2	b	1
London (Westminster)							*
Yarmouth ...							
Rochefort ...	30.16	64	57	SE	3	bc	*

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

CONTINENTAL INFORMATION NOT RECEIVED.

SUMMARY OF CHANGES IN THE WEATHER OVER EUROPE FROM THE 30TH OCT. TO 5TH NOV. 1898.

At the commencement of the time, when barometrical pressure was highest over the central and southern parts of Russia, the weather in the W^rn countries was influenced by a complex depression, with two distinct minima which travelled N^wds over our Islands. The disturbance produced rain in all parts of W^rn and N^rn Europe, the amount being large in places, and in its rear the wind blew very strongly from the W^rd over the whole of our Islands, with a slight gale in places.

As the depression passed away a new anticyclone spread over the Spanish Peninsula and France, the first effect of this being seen in the development of shallow cyclonic systems over S^rn Europe in the hollow dividing the two high pressure areas. These disturbances occasioned very heavy falls of rain in many parts of Italy and the S. of France, with thunderstorms in places. Later on the two anticyclones coalesced, and the weather over S^rn Europe showed some improvement. In the NW^rn and N^rn countries, however, the conditions were influenced by a depression of considerable size and depth, the centre of which advanced to the N. of Scotland on the night of the 1st. This system occasioned fresh to strong gales from the SW^wd first of all in our Islands, and afterwards over Denmark, Scandinavia and the Baltic, with rain in nearly all places, the amounts being considerable in Scotland, where thunder and lightning occurred on the 3rd. The disturbance was now passing away to the NE^wd, but a new depression, — probably of a secondary nature — was developed off the N. of Scotland on the 4th. At the close of the week this was also travelling on to the NE^wd, and the weather in our Islands was inclined to improve.

EXPLANATION OF THE 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.

N.B.—The morning observations are now made at 8 a.m. in the British Islands, Belgium, Germany, Sweden, and Norway, at 7 a.m. in France, and at 9 a.m. in Spain and Portugal. The evening observations are made at 8 p.m. at Oxford, but at 6 p.m. at the other stations in the British Islands and in France; at 8 p.m. in Sweden, Norway and Germany. The time at each Station is the Standard Time of its Country.

Subscriptions both for the Daily *and* Weekly Weather Reports *may be paid, in advance, to the* Meteorological Office.

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„ Weekly „ „ „ £1 10 0 „

DAILY WEATHER REPORT

for 8 a.m. on TUESDAY NOVEMBER 8TH 1898.

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

	STATIONS.	YESTERDAY EVENING. (See note at bottom of last page.)					THIS MORNING. (See note at bottom of last page.)								PAST 24 HOURS.				
		Barom.	Temp.	Wind.			Barometer.		Temperature.			Wind.					Temp.		
		At 32° and M.S.L.	Dry Bulb.	Direc.	Force (0 to 12.)	Weather	At 32° Fahr. and M. S. L.	Change since Yesterday.	Dry Bulb.	Wet Bulb.	Change since Yesterday.	Direc.	Force (0 to 12.)	Weather.	Sea (0 to 9.)	Weather.	Hours of Bright Sunshine.	Max.	Min.	Rainfall.
		Ins.	°				Ins.	Ins.	°	°	°							°	°	Ins.
Scandinavia	Haparanda ...	30·42	10	N	2	b	30·25	−·02	29	28	+12	SW	2	c	*	b	*	29	3	—
	Hernösand ...	30·35	36	S	2	o	30·21	−·07	34	34	+9	SW	2	o	*	o	*	34	28	—
	Stockholm ...	30·46	42	Z	o	b	30·41	+·13	41	40	+8	S	2	f	*	b	*	41	30	—
	Wisby	30·47	36	N	4	c	30·47	+·13	42	41	+2	S	4	o	*	c	*	42	32	—
	Karlstad ...	30·34	42	SSE	1	o	30·35	+·10	44	43	+10	SSW	2	o	*	o	*	*	*	—
	Bodö	29.95	29.	E	6	o	29.72	·37	46	44	+20	SW	8	o	6	o	*	46	21	—
	Christiansund ...	29.92	48	WSW	3	o	30·06	+·20	49	45	+7	WSW	2	c	4	o	*	49	39	—
	Skudesnaes ...	30·16	50	SSE	6	o	30·17	+·10	48	45	−1	SE	6	o	4	o	*	37	41	*
	Færder (Christiania Fjord)	30·28	46	S	2	bc	30·30	+·09	46	44	+6	SSW	4	o	3	bc	*	46	39	—
	Skagen (The Scaw)	30·31	46	SW	2	m	30·32	+·07	46	45	+4	S	3	o	o	m	*	48	41	—
	Fanö	30·27	42	SE	4	b	30·25	−·01	41	39	−7	SE	4	o	*	b	*	30	39	—
British Islands.	Sumburgh Head	29.80	50	SSW	3	o	29.86	+·12	49	45	−1	S	3	o	4	c.o	*	33	45	0.01
	Stornoway ...	29.65	37	SSW	4	o	29.72	+·06	51	49	+1	S	4	o	4	o	0.6	34	48	0.10
	Wick	29.81	30	S	3	o	29.86	+·11	48	46	−3	S	3	bc	2	o	*	33	47	—
	Nairn	29.76	37	Z	o	c	29.81	+·04	48	45	−4	W	1	c	1	c	*	36	45	—
	Aberdeen ...	29.86	49	S	4	ogq	29.90	+·03	47	44	−2	S	3	c	4	og.ogq	0.0	37	46	—
	Leith	29.81	48	S	2	bc	29.87	−·02	46	44	−4	Z	o	o	*	bc	*	33	42	—
	Shields	29.02	48	S	2	b	29.90	−·08	43	42	−1	SSW	3	cm	2	cm.b	*	31	41	—
	Spurn Head ...	29.93	50	SE	5	b	29.97	−·08	46	46	−4	S	3	c	3	b	*	37	45	—
	York	29.93	48	SSE	3	b	29.97	−·07	45	44	o	ESE	1	o	*	o.b	0.1	32	41	—
	Loughborough ...	29.93	45	SSW	1	b	29.96	−·11	44	43	−2	SE	2	omdp	*	cb.o	*	32	39	—
	Ardrossan ...	29.76	37	ESE	4	c	29.85	+·02	49	49	−2	E	3	o	3	c	*	33	48	—
	Malin Head ...	29.33	32	SSE	6	o	29.72	+·04	45	44	−6	S	4	b	2	o	*	33	44	—
	Belmullet ...	29.39	32	SSE	5	o	29.69	+·09	51	47	−1	SSW	5	b	*	+.o	*	35	47	0.46
	Donaghadee ...	29.70	34	SSW	5	c	29.84	+·02	45	44	−8	WSW	5	bc	4	c	*	34	44	0.01
	Liverpool (Bidston)	29.85	48	ESE	4	bc	29.91	−·05	47	46	o	SE	3	o	2	bcm	*	33	44	—
	Holyhead ...	29.76	32	SSE	7	b	29.88	o·o	30	48	−2	SW	1	cf	1	c.b	*	36	48	0.01
	Parsonstown ...	29.50	33	SE	3	†	29.84	+·14	40	39	−12	X	o	b	*	o†w	0.0	36	39	0.01
	Valencia ...	29.41	33	S	5	ogf	29.80	+·25	47	44	−8	S	3	b	4	og.ogf	0.0	38	43	0.34
	Roche's Point ...	29.52	36	SSW	7	c	29.86	+·20	44	42	−12	NW	1	b	4	†.c.b	*	37	41	0.10
	Pembroke (St. Ann's Hd.)	29.71	34	SE	6	c	29.87	+·01	37	30	−3	Z	o	cg.	4	c	·01	35	30	0.03
	Scilly	29.67	36	SSE	6	+m	29.84	+·04	32	30	−3	ENE	1	c	3	ou.†m	1.9	60	48	0
	Prawle Point ...	29.84	37	SSE	4	o	29.88	−·09	33	33	−2	SSE	1	o†	3	o.†	*	34	47	0.52
	Jersey (St. Aubin's)	29.90	49	SSE	5	cg	29.91	−·09	34	32	+3	ESE	3	cm	3	og	*	34	48	—
	Hurst Castle ...	29.91	32	SSE	3	o	29.96	−·07	34	33	o	ESE	1	c	2	c.o	*	35	37	—
	Dungeness ...	29.98	49	SSE	4	o	30·00	−·12	37	30	+3	SSE	3	c	2	bc.o	*	37	47	—
	North Foreland	29.99	48	ESE	5	o	30·02	−·13	37	30	+3	ESE	2	cm	2	c.o.m	*	37	48	—
	London (Brixton) ...	29.97	48	S	2	bcm	30·01	−·10	43	43	−4	SE	1	bcm	*	bc.bmw	4.4	39	42	—
	Oxford	29.93	47	SE	3	o	29.98	−·09	47	46	+3	SE	2	†	*	o.†	*	33	43	0.01
	Cambridge ...	29.96	47	SE	4	b	30·01	−·10	45	45	−5	SSE	1	bm	*	b	5.0	35	43	—
	Yarmouth ...	29.97	50	SE	5	b	30·01	−·12	50	48	o	SSE	2	b	3	b	*	37	46	—
Germany & Holland.	Cuxhaven ...	30·25	43	SE	2	o	30·19	−·11	36	36	o	SSE	3	bc	*	o	*	43	36	—
	Berlin	30·38	40	E	2	f	30·31	−·05	39	38	+4	ESE	3	c	*	f	*	43	35	—
	Wiesbaden ...	*	*	*	*	*	30·21	−·09	42	40	+5	NW	1	o	*	*	*	50	36	—
	Munich	30·20	38	SE	2	b	30·23	−·05	41	41	+2	SSE	2	f	*	b	*	46	36	—
	The Helder ...																*			
Belgium.	Brussels ...	*	*	*	*	*	30·10	−·12	44	41	+7	X	o	b	*	b	*	50	37	—
	Cape Gris Nez ...																*			
	Paris	30·04	40	S	1	b	30·06	−·09	32	32	−11	S	1	m	*	b	*	33	32	—
	Brest	29.79	36	S	4	o	29.83	−·09	36	35	+6	ENE	1	o	3	o	*	39	46	0.35
	Lorient	29.88	34	SSE	4	o	29.88	−·09	49	48	+2	E	3	o	5	o	*	39	47	—
France &	Rochefort ...	29.95	35	E	1	b	29.92	−·08	34	32	+9	SE	3	bc	*	b	*	63	41	—
	Belfort	30·14	48	S	3	m	30·16	−·01	40	40	−1	N	2	fb	*	m	*	30	38	—
	Lyons	30·10	30	NNW	1	fbc	30·13	−·04	47	46	+5	ENE	1	fb	*	bc	*	35	42	—
	Nice	30·06	61	SE	2	b	30·10	+·04	37	30	+2	E	2	c	2	b	*	70	54	—
	Perpignan ...	30·01	37	SE	2	b	30·04	−·04	33	33	+7	NW	1	b	*	b	*	64	46	—
	Biarritz ...	29.91	64	S	3	c	29.88	−·07	60	54	+5	S	2	b	2	c	*	68	55	—
Peninsula.	Corunna ...																*			
	Lisbon	29.99	55	NW	4	o	30·02	−·02	57	54	+2	Z	o	m	*	o	*	63	54	0.16
	Azores (P. Delgada)	30·21	56	NNW	2	c	30·05	−·14	60	54	+4	NNW	3	c	3	bc.c	*	70	55	0.04

For Explanation of Columns, see bottom of last page. † *Received too late for Insertion in Charts on next page.*

NOTE: *The Sunshine for London given in this Table is now recorded on the tower of the Wesleyan Training College, Westminster.*

Bright Sunshine yesterday Southport 5.5 hrs;

WEATHER CHARTS

FOR Tuesday, 8th November, 1898

BAROMETER, WIND AND SEA.

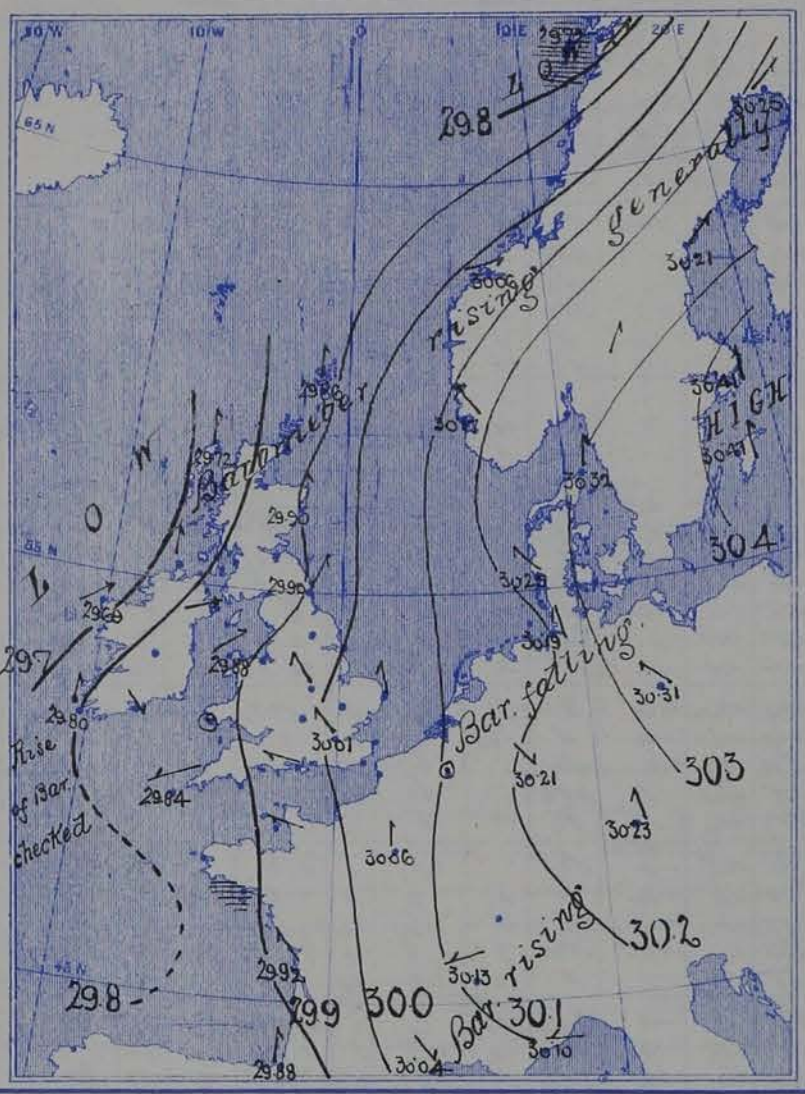
BAROMETER—Isobars are drawn for each tenth of an inch.

WIND—Arrows shew Directions and Force, flying with the wind.

Force above 10 ⟶⟶ ; *Force 5 to 7* ⟶ ; *Force 1 to 4* ⟶ ; Calm ⊙

Force 8 to 10 ⟶ ;

SEA—*Rough* ; *High*

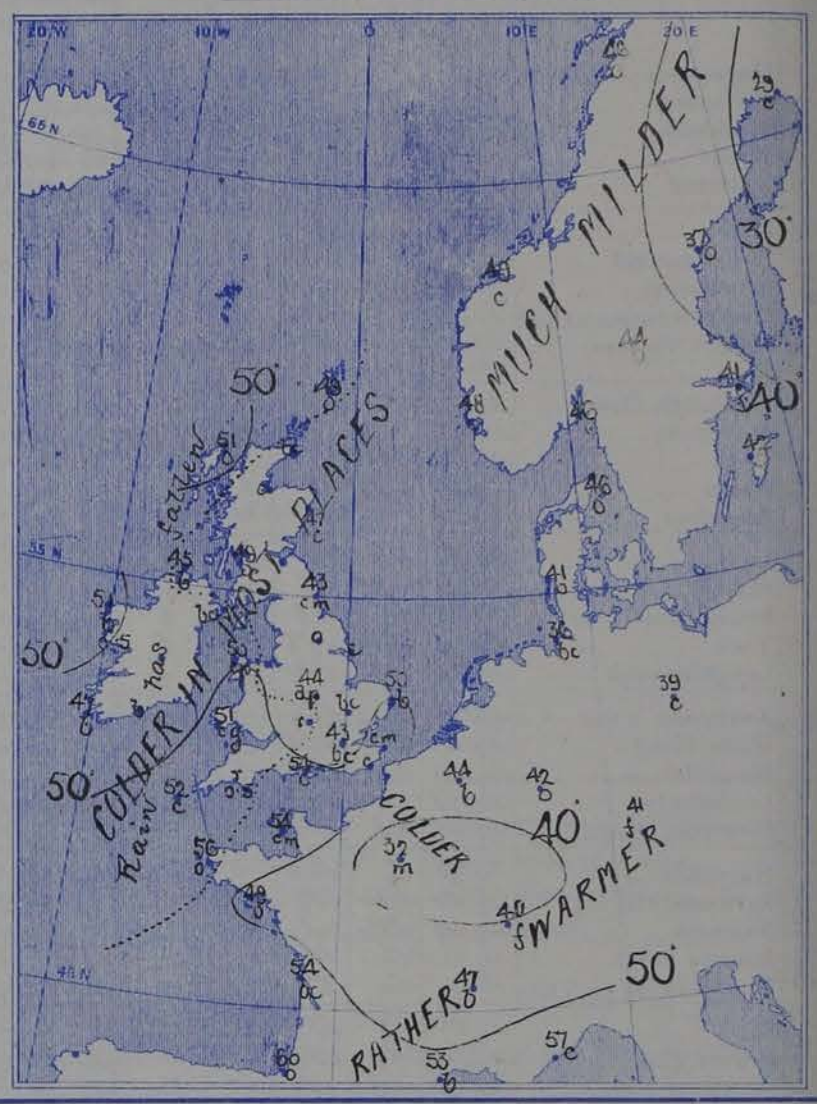


TEMPERATURE & WEATHER.

TEMPERATURE—Isotherms are drawn for each 10°.

WEATHER—Shown by Letters of the Beaufort Scale.

RAINFALL—A dotted line separates areas where rain has fallen from those without rain. The fall in past 24 hours when exceeding half an inch is shown thus—0·6.



VALUES FOR PRESSURE, TEMPERATURE, RAINFALL, AND BRIGHT SUNSHINE *IN THE MONTH OF NOVEMBER.*

STATIONS.	PRESSURE AT 8 A.M. Means, 1871—95.	TEMPERATURE OF AIR. 1871-95. Means of				Absolute Extremes.				RAINFALL. Means, 1866—95.	BRIGHT SUNSHINE. Means, 1881—95.	
		Dry Bulb 8 a.m.	Wet Bulb 8 a.m.	Daily Maximum.	Daily Minimum.	Maximum	Years.	Minimum.	Years.		Hours.	Per cent. of possible.
	(*Inches.*)	°	°	°	°	°		°		(*Inches.*)		
Sumburgh Head	29 · 693	42 · 3	40 · 6	45 · 8	38 · 2	55	1890	21	1875	4 · 14	—	—
Stornoway	29 · 703	42 · 0	41 · 0	46 · 4	37 · 1	56	1881	20	1880	4 · 80	42 · 1	18
Wick	29 · 728	41 · 6	40 · 1	46 · 2	36 · 4	58	1885, 89	15	1884	2 · 93	—	—
Nairn	29 · 743	40 · 0	38 · 4	45 · 7	35 · 5	61	1885, 94	18	1880	2 · 14	—	—
Aberdeen	29 · 772	40 · 7	38 · 9	46 · 3	36 · 7	62	1872, 89	15	1880, 84	3 · 16	54 · 7	23
Leith	29 · 798	41 · 8	40 · 1	48 · 2	37 · 1	64	1872	18	1885	2 · 05	—	—
Shields	29 · 824	42 · 4	40 · 8	47 · 6	38 · 0	62	1881, 94	20	1880	2 · 39	—	—
Spurn Head	29 · 854	43 · 5	42 · 2	47 · 1	40 · 4	61*	1894, 95	28*	1884	2 · 28	—	—
York	29 · 859	40 · 9	39 · 7	47 · 7	36 · 6	62	1894, 95	14	1871	2 · 21	39 · 7	16
Loughborough	29 · 888	40 · 7	39 · 5	48 · 4	36 · 7	63*	1881, 93, 94, 95	19*	1887, 93	2 · 21	—	—
Ardrossan	29 · 799	43 · 3	41 · 6	47 · 9	39 · 2	69	1872	21	1880	3 · 78	—	—
Malin Head	29 · 755	43 · 9	42 · 0	48 · 0	40 · 9	—	—	—	—	—	—	—
Belmullet	29 · 799	45 · 3	43 · 3	49 · 4	41 · 5	—	—	—	—	5 · 92	—	—
Donaghadee	29 · 819	43 · 4	42 · 3	48 · 5	39 · 4	60	1894	27	1878, 83	3 · 10	—	—
Holyhead	29 · 845	45 · 9	44 · 2	49 · 8	42 · 9	62	1881	29	1880	3 · 96	—	—
Liverpool	29 · 862	42 · 7	40 · 9	48 · 0	39 · 7	63	1872	22	1880	2 · 81	—	—
Parsonstown	29 · 852	41 · 8	40 · 3	49 · 1	37 · 0	62	1874	20	1890	2 · 86	63 · 1	25
Valencia	29 · 867	47 · 4	45 · 5	52 · 3	42 · 9	63	1881	27	1890	5 · 63	63 · 8	25
Roche's Point	29 · 869	46 · 2	44 · 6	51 · 2	42 · 0	61	1875	27	1890	4 · 79	—	—
Pembroke	29 · 871	47 · 1	45 · 4	50 · 3	43 · 6	58	1884, 95	28	1890	4 · 04	58 · 8	23
Scilly	29 · 898	50 · 1	48 · 1	52 · 6	46 · 6	60	1875, 81	29	1890	3 · 80	—	—
Prawle Point	29 · 917	46 · 4	44 · 9	51 · 2	42 · 1	61*	1881	19*	1890	3 · 26	—	—
Jersey	29 · 937	48 · 0	46 · 0	52 · 3	44 · 3	64	1874, 81	16	1890	4 · 19	70 · 9	26
Hurst Castle	29 · 912	45 · 3	44 · 3	50 · 7	41 · 0	66	1874	20	1890	3 · 11	—	—
Dover	29 · 904	44 · 7	43 · 3	49 · 7	40 · 9	61	1895	17	1890	3 · 30	—	—
LONDON	29 · 910	42 · 5	41 · 1	49 · 6	38 · 3	65	1894	19	1879	2 · 31	29 · 5†	11†
Oxford	29 · 908	41 · 4	40 · 2	48 · 5	37 · 7	68	1881	19	1871, 87	2 · 42	55 · 4	22
Cambridge	29 · 901	41 · 0	40 · 1	48 · 9	36 · 0	65	1895	15	1890	2 · 07	61 · 7	24
Yarmouth	29 · 879	43 · 4	42 · 2	47 · 7	39 · 2	60	1895	23	1890	2 · 92	—	—

* Extremes of temperature at these Stations are from observations made during the 15 years—1881-95. † The Sunshine values are for Westminster.

GENERAL SITUATION AT 8 A.M.

PRESSURE

Highest 30.49 ins. at Scilly and exceeding 30.1 ins. over Germany, the E. of France, the Baltic, and all the countries lying to the eastward of the North Sea.
Lowest 29.8 ins. and less over Finmark, and also over the extreme NW^rn parts of our Islands.
Gradients slight in the east, moderate and variable in the W. and SW.
Barometer rising over Ireland and Scotland, but at Valencia the rise was checked.

TEMPERATURE

Highest 60° at Biarritz, 54° at Jersey and Hurst Castle, 52° at Scilly.
Lowest (1) 29° at Haparanda, 37° at Hernissand; (2) 32° at Paris, 34° at Berlin; (3) 43° at Shields, 45° at York and Cambridge.
The maxima recorded yesterday were 58° at Valencia, 59° at Cambridge and in London, 60° at Scilly, 70° at Nice.

WIND

SE. ½ on our east, south and southwest coasts, SW. ½ to S. ½ in the north of our Islands, SW. ½ in the north of Norway. It was moderate to light in most places; very light from NE. at the mouth of the English Channel, SE. ½ over the Bay of Biscay.

WEATHER

Very changeable as a whole. In many places the sky was clear or merely hazy, but in several parts of England there was rain.
Showers had fallen on our W^rn coasts generally. Bright Sunshine recorded yesterday amounted to 5 hrs. or more at Cambridge, Pembroke and Southport, and to more than 4 hrs. at Llandudno and in London.

SEA

Moderate on our N^rn and W^rn coasts slight to smooth elsewhere.

PROBABLE CHANGES IN SYSTEM NOW PREVALENT

The depression noticed in the far W. yesterday has passed away to the N^wd. There are some indications of a very shallow disturbance over the Bay of Biscay, but they are not very decided.

FORECASTS

For the 24 hours ending at NOON on 9TH NOV. 1898.

DISTRICTS.		FORECASTS.
0	SCOTLAND NORTH	S. ½ and SE. ½ breezes moderate; some rain, wind increasing later.
1	SCOTLAND EAST	S. ½ breezes, moderate, weather changeable, some local showers.
2	ENGLAND N.E.	
3	ENGLAND EAST	SE. ½ and varying winds, light; dull, some rain, then foggy.
4	MIDLAND COUNTIES	
5	ENGLAND SOUTH	
6	SCOTLAND WEST	S. ½ winds, increasing again, fair to rainy and unsettled.
7	ENGLAND N.W.	
8	ENGLAND S.W.	
9	IRELAND NORTH	
10	IRELAND SOUTH	
	WARNINGS	The South Cone is still up on our western and northern coasts.

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

YESTERDAY'S 2 P.M. REPORTS.

	BAR.	THER. Dry.	THER. Wet.	WIND. Direc.	F.	WEA.	SEA.
Skudesnaes ...	30.12	57	53	SSE	6	o	4
Sumburgh Head	29.77	54	50	SSW	8	c	7
Stornoway	29.67	54	52	SSW	4	o	4
Aberdeen	29.86	50	49	S	3	og	3
Shields	29.94	49	44	S	2	cm	2
Ardrossan	29.77	53	52	SSE	5	c	4
Malin Head ...	29.76	52	51	S	6	o	3
Belmullet	29.46	54	52	SSE	7	+	*
Holyhead	29.79	55	50	S	4	c	5

	BAR.	THER. Dry.	THER. Wet.	WIND. Direc.	F.	WEA.	SEA.
Valencia	29.38	59	54	SSE	5	og	6
Scilly	29.70	56	54	SSE	7	ou	4
Jersey	29.94	50	48	SE	5	og	4
Hurst Castle ...	29.94	52	50	SE	4	c	2
Dungeness ...	30.01	50	48	SSE	3	bc	2
North Foreland	30.02	51	49	ESE	3	c	2
London (Westminster)	29.99	52	48	SE	5	c	*
Yarmouth ...	30.04	51	49	SSE	4	b	3
Rochefort ...	29.97	61	58	ESE	3	b	*

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

Weather in morning fair or fine over W^rn and S^rn Europe generally, but dull in the extreme N. and NW. of our Islands, and rainy in the S. of Ireland. Dull in most of the N^rn central and E^rn countries, with fog in many parts of Denmark, Germany, the Netherlands and the NE of France, and rain at Nicolaieff. Rain falling later on our W. and SW. coasts and at Brest, but amounts not very large. Fog or haze reported in a few places.

Temperature risen somewhat over the United Kingdom; fallen over central Europe. Morning reading highest 67° at Malta, 63° at Algiers, 62° at Barcelona and Naples, and exceeding 50° at nearly all of our Atlantic and Channel stations; lowest 12° at Archangel, 17° at Haparanda and Kuopio, 22° at Helsingfors; 35° at Berlin, 37° at Wiesbaden, 39° at Munich and Breslau. Rising later to between 55° and 59° in many parts of our Islands, 63° at Rochefort, 68° at Biarritz, and 70° at Nice.

Wind (1) light to moderate and anticyclonic over the greater part of continental Europe; (2) S. to SE. over England, Ireland and Norway, and blowing a moderate gale at many of the W^rn stations; SW. to S. in Scotland. Gale spreading N^rds later, but subsiding slowly on our extreme western coasts, and veering more S. at the English stations.

Barometer highest 30.4 ins. and more at Breslau and Cracow, and exceeding 30.1 ins. over the whole of central Europe, the Baltic, Sweden, the E^rn parts of Norway and the North Sea. Lowest below 29.6 ins. off the W^rn coast of Ireland. Gradients steep over the United Kingdom, slight over central Europe, but moderate for N. winds over Russia. The depression over the Atlantic moving N^rds later, and barometer beginning to rise at Valencia.

EXPLANATION OF THE 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.

N.B.—The morning observations are now made at 8 a.m. in the British Islands, Belgium, Germany, Sweden, and Norway, at 7 a.m. in France, and at 9 a.m. in Spain and Portugal. The evening observations are made at 8 p.m. at Oxford, but at 6 p.m. at the other stations in the British Islands and in France; at 8 p.m. in Sweden, Norway and Germany. The time at each Station is the Standard Time of its Country.

Subscriptions both for the Daily *and* Weekly Weather Reports *may be paid, in advance, to the* Meteorological Office.

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DAILY WEATHER REPORT

for 8 a.m. on WEDNESDAY NOVEMBER 9TH 1898.

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

	STATIONS.	YESTERDAY EVENING. (See note at bottom of last page.)					THIS MORNING. (See note at bottom of last page.)									PAST 24 HOURS.				
		Barom.	Temp.	Wind.			Barometer.		Temperature.			Wind.						Temp.		
		At 32° and M.S.L.	Dry Bulb.	Direc.	Force (0 to 12.)	Weather	At 32° Fahr. and M. S. L.	Change since Yesterday.	Dry Bulb.	Wet Bulb.	Change since Yesterday.	Direc.	Force (0 to 12.)	Weather.	Sea (0 to 9.)	Weather.	Hours of Bright Sunshine.	Max.	Min.	Rainfall.
		Ins.	°				Ins.	Ins.	°	°	°							°	°	Ins.
Scandinavia.	Haparanda ...	?	36	?	4	†	29.75	-.50	31	30	+2	Z	0	b	*	†	*	34	5	0.44
	Hernösand ...	30.07	40	Z	0	0	30.00	-.21	39	36	+2	SW	2	0	*	0	*	41	34	—
	Stockholm ...	30.31	39	SW	2	0	30.19	-.22	39	37	-2	WSW	2	c	*	0	*	43	34	—
	Wisby	30.38	42	S	4	0	30.28	-.19	41	38	-1	NW	4	0	*	0	*	45	34	—
	Karlstad ...	30.31	41	SSW	2	0	30.21	-.14	41	39	-2	WSW	2	0	*	0	*	*	*	—
	Bodö	29.88	41	SW	7	†	29.65	-.07	40	38	-6	SW	8	†	6	†	*	46	37	0.20
	Christiansund ...	30.10	48	WSW	9	0	30.04	-.02	33	46	+1	WSW	8	0	5	0	*	50	46	—
	Skudesnaes ...	30.25	47	ESE	2	0	30.27	+.10	47	45	-1	E	2	0	2	0	*	48	45	*
	Færder (Christiania Fjord)	30.27	44	SSW	4	0	30.25	-.07	41	38	-5	W	2	bc	2	0	*	46	41	—
	Skagen (The Scaw)	30.31	42	SW	2	0	30.28	-.04	41	40	-5	WSW	2	m	0	0	*	48	39	—
	Fanö	30.31	40	SE	1	0	30.34	+.09	39	39	-2	Z	0	m	*	0	*	45	39	—
British Islands.	Sumburgh Head	30.04	49	S	1	0	30.15	+.29	45	42	-6	Z	0	c	3	c.0	*	51	41	—
	Stornoway ...	30.01	49	WSW	3	b	30.16	+.44	39	38	-12	W	2	b	2	b	5.7	38	35	—
	Wick	30.06	48	NW	2	b	30.13	+.27	40	39	-8	NW	1	b	1	b	*	52	34	—
	Nairn	30.05	40	Z	0	b	30.20	+.39	31	30	-17	W	1	b	1	b	*	54	27	—
	Aberdeen ...	30.09	46	SW	2	bw	30.24	+.34	35	34	-12	W	1	bwm	2	b. bw	2.0	51	32	—
	Leith	30.07	48	Z	0	c	30.25	+.38	44	44	-2	Z	0	f	*	c	*	52	38	—
	Shields	30.11	48	SSW	1	m	30.25	+.35	46	46	+3	S	1	m	2	0.m	*	51	42	—
	Spurn Head ...	30.11	50	SE	3	b	30.23	+.26	48	48	+2	WSW	1	b	2	bw	*	53	44	0.01
	York	30.10	50	S	1	bc	30.26	+.29	38	38	-7	SE	1	f	*	0. bc	0.0	51	36	—
	Loughborough ...	30.10	50	SE	1	0	30.24	+.28	42	41	-2	Z	0	0g fo	*	c.o.m f	*	57	36	—
	Ardrossan ...	30.07	49	NNE	2	b	30.21	+.36	46	46	-3	NNW	2	bfw	1	bc. b	*	58	44	—
	Malin Head ...	29.99	46	S	4	b	30.14	+.42	50	49	+5	S	2	cm	1	b	*	51	44	—
	Belmullet ...	29.93	50	S	4	b	30.09	+.40	49	48	-2	SE	3	bc	*	b	*	54	44	0.04
	Donaghadee ...	30.08	51	S	1	bc	30.19	+.35	53	52	+8	SE	4	bc	2	bc	*	53	45	—
	Liverpool (Bidston)	30.09	51	ESE	3	0	30.20	+.29	47	45	0	ESE	1	b	?	†m.o	*	52	45	—
	Holyhead ...	30.00	53	ENE	2	ogwfd	30.14	+.26	51	49	+1	ENE	2	bm	1	ogwfd	*	54	48	—
	Parsonstown ...	29.99	47	SE	1	b	30.10	+.26	48	47	+8	Z	0	f	*	b	7.5	54	34	—
	Valencia ...	29.94	48	SE	2	c	30.03	+.29	51	49	+4	E	3	b	4	cr.c	4.6	53	39	0.05
	Roche's Point ...	29.95	47	SE	2	b	30.06	+.20	54	53	+10	SE	2	b	3	b. f	*	58	42	0.18
	Pembroke (St. Ann's Hd.)	29.94	53	E	3	0	30.11	+.24	53	52	+2	ESE	4	0gm	4	0	0.2	55	53	—
	Scilly	29.86	53	E	3	†	30.02	+.18	54	53	+2	E	3	c.of	2	0.†	0.2	58	50	0.29
	Prawle Point ...	29.96	56	SE	3	c	30.10	+.22	56	55	+3	ENE	2	m	2	c.f	*	57	52	0.02
	Jersey (St. Aubin's)	29.94	57	ENE	2	bcm	30.08	+.17	54	52	0	ESE	1	bm	1	bc.bcm.w	*	59	48	—
	Hurst Castle ...	30.02	55	ENE	4	0m	30.14	+.18	52	51	-2	NE	3	0m	2	c.0m	*	58	52	—
	Dungeness ...	30.07	54	E	3	0	30.16	+.16	55	54	+4	ENE	3	mw	2	0	*	56	49	—
	North Foreland	30.12	51	E	2	bc	30.20	+.18	51	50	0	ENE	2	c	2	bc	*	52	48	—
	London (Brixton) ...	30.10	49	SE	1	mw	30.19	+.18	51	50	+8	ENE	2	of g	*	bm.0m	0.9	56	48	—
	Oxford	30.11	46	Z	0	0	30.21	+.23	46	46	-1	NNE	1	of	*	of	*	55	45	—
	Cambridge ...	30.12	48	ESE	1	cm	30.24	+.28	43	43	-2	NE	1	fw	*	c.m	4.9	60	39	—
	Yarmouth ...	30.07	52	ESE	2	c	30.22	+.21	52	51	+2	NE	2	fbcw	3	b.c	*	53	46	—
Germany & Holland.	Cuxhaven ...	30.22	41	SE	2	0	30.30	+.11	36	36	0	E	2	f	*	0	*	45	36	—
	Berlin	30.30	39	Z	0	b	30.32	+.01	36	35	-3	SE	1	f	*	b	*	46	36	—
	Wiesbaden ...	*	*	*	*	*	30.28	+.07	40	40	-2	E	1	0	*	*	*	48	36	—
	Munich	30.24	42	SE	3	f	30.29	+.06	40	40	-1	N	1	f	*	f	*	48	39	0.04
	The Helder ...	30.15	47	SE	1	fm	30.23	+.11	46	45	+6	Z	0	m	0	m	*	52	39	—
Belgium.	Brussels ...	*	*	*	*	*	30.23	+.13	48	47	+4	Z	0	c	*	0	*	62	48	—
	Cape Gris Nez ...	?	53	E	1	m	?	?	50	49	+7	SE	1	m	1	m	*	54	41	—
	Paris	30.08	56	E	2	bc	30.16	+.10	48	47	+16	SE	2	bc	*	bc	*	64	32	—
	Brest	29.89	57	ESE	1	0	30.00	+.17	54	53	-2	E	2	0	3	0	*	57	50	—
	Lorient	29.90	57	SE	4	†	30.01	+.13	53	53	+4	ENE	4	f	4	†	*	61	49	—
France &	Rochefort ...	29.95	58	SSE	3	c	30.02	+.10	54	57	0	SSE	3	b	*	bc.c	*	66	53	—
	Belfort	30.21	40	ENE	4	f	30.24	+.08	40	40	0	NE	2	f	*	f	*	45	38	—
	Lyons	30.14	56	S	1	fc	30.24	+.11	44	44	-3	W	1	m	*	c.	*	60	48	—
	Nice	30.14	59	Z	0	b	30.18	+.08	55	48	-2	E	4	c	3	b	*	66	50	—
	Perpignan ...	30.06	59	E	2	bc	30.11	+.07	48	47	-5	SW	2	b	*	bc	*	67	46	—
	Biarritz ...	29.91	63	SSE	3	0	29.97	+.09	63	55	+3	SSE	2	b	2	0.l	*	70	57	—
Penin-sula.	Corunna ...																*			
	Lisbon	29.87	57	SSE	3	c	29.79	-.23	59	57	+4	SSW	8	†	*	b.c	*	63	55	0.35
	Azores (P. Delgada)	29.90	57	SW	2	c	29.77	-.28	55	54	-5	W	3	†	3	o.c	*	70	54	0.24

For Explanation of Columns, see bottom of last page. † *Received too late for Insertion in Charts on next page.*

NOTE: *The Sunshine for London given in this Table is now recorded on the tower of the Wesleyan Training College, Westminster.*

Bright Sunshine yesterday Southport 0.0 hrs;

WEATHER CHARTS

FOR Wednesday 9th November, 1898

BAROMETER, WIND AND SEA.

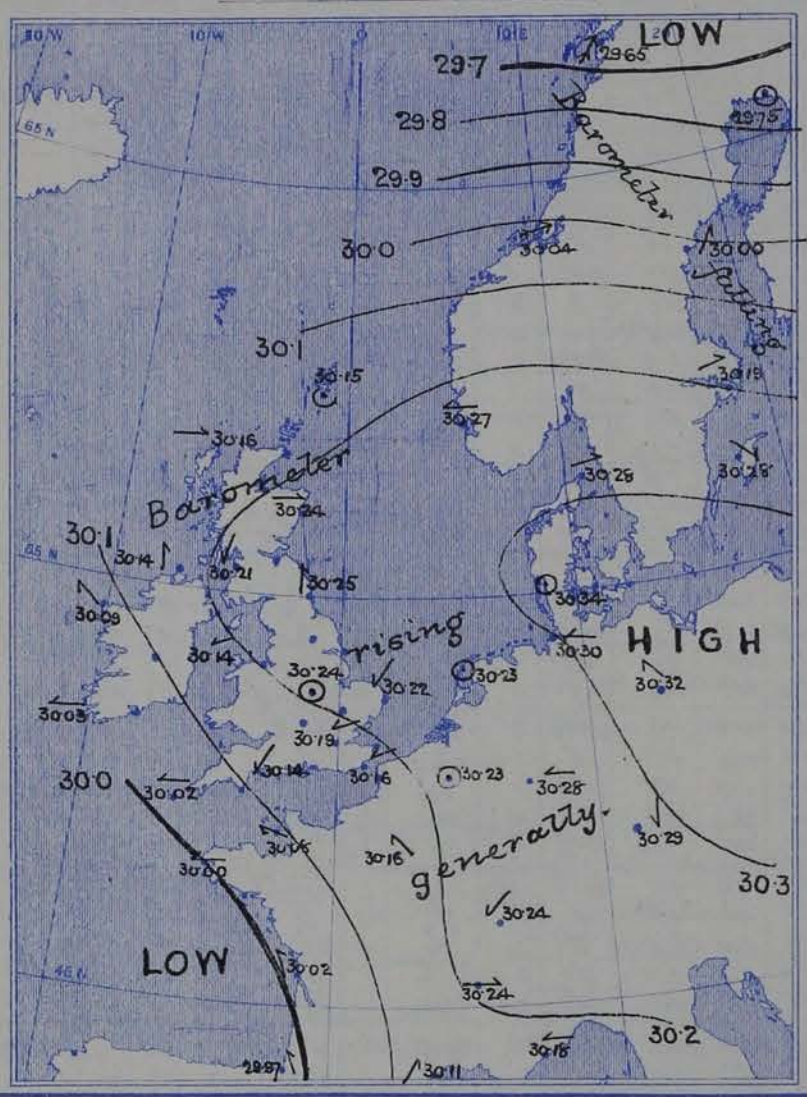
BAROMETER—Isobars are drawn for each tenth of an inch.

WIND—Arrows shew Directions and Force, flying with the wind.

Force above 10 ⟫⟶ ; *Force 5 to 7* ⟶ ; } Calm ⊙

Force 8 to 10 ⟩⟶ ; *Force 1 to 4* ⟶ ; }

SEA—Rough ▤ ; *High* ▩

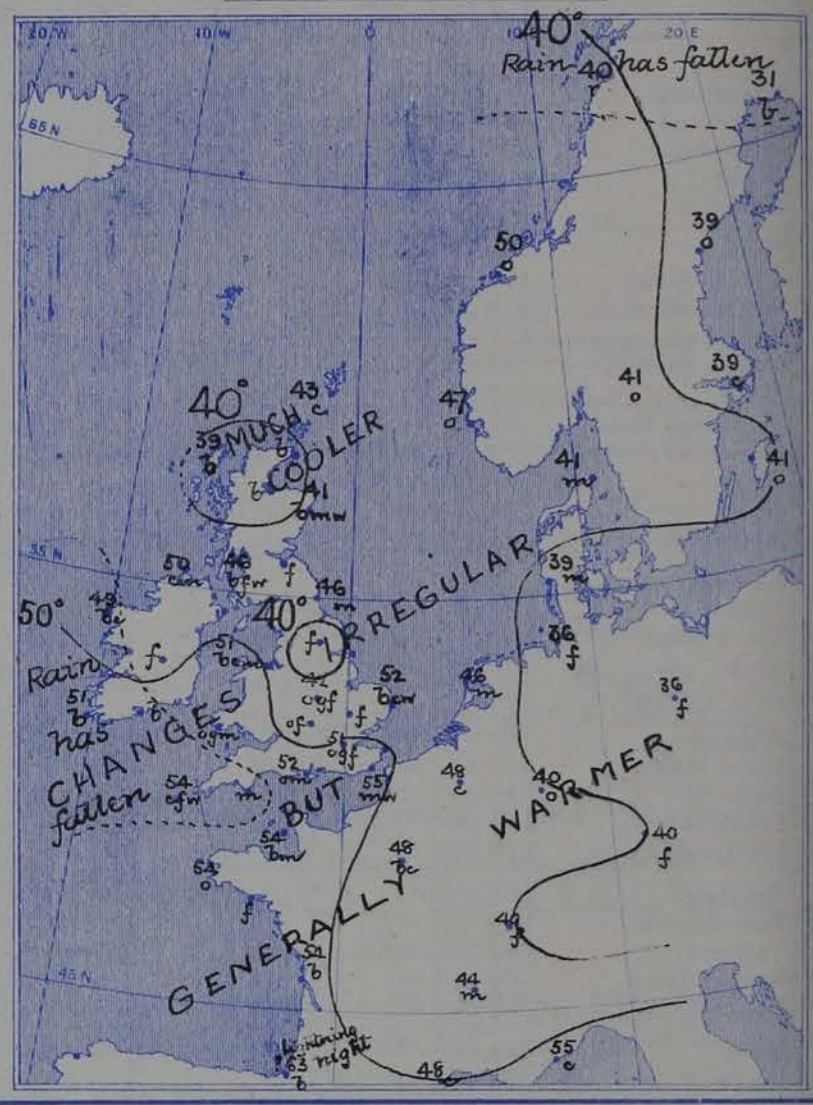


TEMPERATURE & WEATHER.

TEMPERATURE—Isotherms are drawn for each 10°.

WEATHER—Shown by Letters of the Beaufort Scale.

RAINFALL—{ A dotted line separates areas where rain has fallen from those without rain. The fall in past 24 hours when exceeding half an inch is shown thus—0·6.



VALUES FOR PRESSURE, TEMPERATURE, RAINFALL, AND BRIGHT SUNSHINE
IN THE MONTH OF NOVEMBER.

STATIONS.	PRESSURE AT 8 A.M. Means, 1871—95.	TEMPERATURE OF AIR. 1871-95. Means of				Absolute Extremes.				RAINFALL. Means, 1866—95.	BRIGHT SUNSHINE. Means, 1881—95.	
		Dry Bulb 8 a.m.	Wet Bulb 8 a.m.	Daily Maximum.	Daily Minimum.	Maximum	Years.	Minimum.	Years.		Hours.	Per cent. of possible.
	(*Inches.*)	°	°	°	°	°		°		(*Inches.*)		
Sumburgh Head	29 · 693	42 · 3	40 · 6	45 · 8	38 · 2	55	1890	21	1875	4 · 14	—	—
Stornoway	29 · 703	42 · 0	41 · 0	46 · 4	37 · 1	56	1881	20	1880	4 · 80	42 · 1	18
Wick	29 · 728	41 · 6	40 · 1	46 · 2	36 · 4	58	1885, 89	15	1884	2 · 93	—	—
Nairn	29 · 743	40 · 0	38 · 4	45 · 7	35 · 5	61	1885, 94	18	1880	2 · 14	—	—
Aberdeen	29 · 772	40 · 7	38 · 9	46 · 3	36 · 7	62	1872, 89	15	1880, 84	3 · 16	54 · 7	23
Leith	29 · 798	41 · 8	40 · 1	48 · 2	37 · 1	64	1872	18	1885	2 · 05	—	—
Shields	29 · 824	42 · 4	40 · 8	47 · 6	38 · 0	62	1881, 94	20	1880	2 · 39	—	—
Spurn Head	29 · 854	43 · 5	42 · 2	47 · 1	40 · 4	61*	1894, 95	28*	1884	2 · 28	—	—
York	29 · 859	40 · 9	39 · 7	47 · 7	36 · 6	62	1894, 95	14	1871	2 · 21	39 · 7	16
Loughborough	29 · 888	40 · 7	39 · 5	48 · 4	36 · 7	63*	1881, 93, 94, 95	19*	1887, 93	2 · 21	—	—
Ardrossan	29 · 799	43 · 3	41 · 6	47 · 9	39 · 2	69	1872	21	1880	3 · 78	—	—
Malin Head	29 · 755	43 · 9	42 · 0	48 · 0	40 · 9	—	—	—	—	—	—	—
Belmullet	29 · 799	45 · 3	43 · 3	49 · 4	41 · 5	—	—	—	—	5 · 92	—	—
Donaghadee	29 · 819	43 · 4	42 · 3	48 · 5	39 · 4	60	1894	27	1878, 83	3 · 10	—	—
Holyhead	29 · 845	45 · 9	44 · 2	49 · 8	42 · 9	62	1881	29	1880	3 · 96	—	—
Liverpool	29 · 862	42 · 7	40 · 9	48 · 0	39 · 7	63	1872	22	1880	2 · 81	—	—
Parsonstown	29 · 852	41 · 8	40 · 3	49 · 1	37 · 0	62	1874	20	1890	2 · 86	63 · 1	25
Valencia	29 · 867	47 · 4	45 · 5	52 · 3	42 · 9	63	1881	27	1890	5 · 63	63 · 8	25
Roche's Point	29 · 869	46 · 2	44 · 6	51 · 2	42 · 0	61	1875	27	1890	4 · 79	—	—
Pembroke	29 · 871	47 · 1	45 · 4	50 · 3	43 · 6	58	1884, 95	28	1890	4 · 04	58 · 8	23
Scilly	29 · 898	50 · 1	48 · 1	52 · 6	46 · 6	60	1875, 81	29	1890	3 · 80	—	—
Prawle Point	29 · 917	46 · 4	44 · 9	51 · 2	42 · 1	61*	1881	19*	1890	3 · 26	—	—
Jersey	29 · 937	48 · 0	46 · 0	52 · 3	44 · 3	64	1874, 81	16	1890	4 · 19	70 · 9	26
Hurst Castle	29 · 912	45 · 3	44 · 3	50 · 7	41 · 0	66	1874	20	1890	3 · 11	—	—
Dover	29 · 904	44 · 7	43 · 3	49 · 7	40 · 9	61	1895	17	1890	3 · 30	—	—
LONDON	29 · 910	42 · 5	41 · 1	49 · 6	38 · 3	65	1894	19	1879	2 · 31	29 · 5†	11†
Oxford	29 · 908	41 · 4	40 · 2	48 · 5	37 · 7	68	1881	19	1871, 87	2 · 42	55 · 4	22
Cambridge	29 · 901	41 · 0	40 · 1	48 · 9	36 · 0	65	1895	15	1890	2 · 07	61 · 7	24
Yarmouth	29 · 879	43 · 4	42 · 2	47 · 7	39 · 2	60	1895	23	1890	2 · 92	—	—

* Extremes of temperature at these Stations are from observations made during the 15 years—1881-95.

† The Sunshine values are for Westminster.

GENERAL SITUATION AT 8 A.M.

PRESSURE

Highest 30·3 ins. and more over Germany and the Baltic, and exceeding 30·0 ins in a ridge extending thence in a W.ly direction and covering the whole of our Islands.
Lowest (1) Below 29·7 ins. over Lapland; (2) below 29·8 ins. at Lisbon and in the Azores.
Gradients slight. Barometer rising all over our Islands and France, falling over Scandinavia – especially in the north – and also over the Azores and Portugal

TEMPERATURE

Highest 59° at Lisbon, 56° to 50° over the S.W. counties, 54° at Rochefort, Scilly and at Roches Pt.
Lowest 31° at Haparanda and also at Nairn, 35° at Aberdeen, 38° at York.
It had fallen very fast at the Scotch stations during the night, and rather quickly at York.

WIND

Light to moderate in force very generally – E.ly to SE.ly in direction over the Channel, England and Ireland, W.ly in Scotland. A gale from SW. was prevailing in the NW. of Norway.

WEATHER

Very quiet in most parts of our Islands and France, but with a great deal of fog or haze at the French and English stations, clear sky in Ireland and Scotland. Rain was falling at Bodö.
Bright Sunshine recorded yesterday amounted to 7·5 hrs. at Parsonstown and exceeded 5 hrs. at Stornoway and on some parts of our SE. coasts.

SEA

Very little disturbed.

PROBABLE CHANGES IN SYSTEM NOW PREVALENT

A depression is approaching Spain from the W.nd, but is apparently not deep. An increase of wind from the E.nd is probable over the Channel and our S.m districts, and colder weather is probable over England and Ireland generally.

FORECASTS

For the 24 hours ending at NOON on 10TH NOVEMBER 1898

DISTRICTS.		FORECASTS.
0	SCOTLAND NORTH	SW.ly breezes, light to moderate, fair.
1	SCOTLAND EAST	SE.ly and variable airs; fair, but hazy or foggy; colder.
2	ENGLAND N.E.	
3	ENGLAND EAST	
4	MIDLAND COUNTIES	
5	ENGLAND SOUTH	E.ly breezes, light; fair, misty.
6	SCOTLAND WEST	Same as No. 0.
7	ENGLAND N.W.	SE.ly breezes, light; fine.
8	ENGLAND S.W.	Same as No. 5.
9	IRELAND NORTH	E.ly or SE.ly breezes, light; fine, cold inland tonight.
10	IRELAND SOUTH	
	WARNINGS	None issued.

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

YESTERDAY'S 2 P.M. REPORTS.

	BAR.	THER. Dry.	THER. Wet.	WIND. Direc.	F.	WEA.	SEA.
Skudesnaes ...	30.21	46	44	SE	6	0	4
Sumburgh Head	29.94	51	48	S	3	c	4
Stornoway	29.92	55	51	W	3	b	3
Aberdeen	30.00	50	47	S	1	b	3
Shields	30.00	50	48	SSW	1	c	2
Ardrossan	29.97	56	55	Z	0	bc	2
Malin Head ...	29.84	51	46	S	4	b	2
Belmullet	29.86	54	51	SW	5	b	*
Holyhead	29.96	53	51	NE	1	ogm	1

	BAR.	THER. Dry.	THER. Wet.	WIND. Direc.	F.	WEA.	SEA.
Valencia	29.86	52	48	S	3	cv	4
Scilly	29.84	55	53	SW	3	c	3
Jersey	29.93	58	54	ESE	3	bc	2
Hurst Castle ...	29.98	57	55	S	3	c	2
Dungeness ...	30.03	50	50	SE	2	o	1
North Foreland	30.06	51	49	SE	2	bc	2
London (Westminster)	30.02	55	52	SE	1	bv	*
Yarmouth ...	30.05	53	50	SE	3	b	3
Rochefort ...	29.92	66	60	ESE	3	bc	*

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

Weather in morning fair but very foggy over the greater part of central Europe, dull and misty in many parts of England, with slight rain at several stations; fine over Ireland as well as over the S. of France and the Mediterranean. Rain falling later over Lapland, the extreme SW. of our Islands, as well as in the Azores and at Lisbon; A great deal of mist over England

Temperature falling decidedly over Russia, Poland and Hungary. Morning readings highest 65° to 60° at many of the Mediterranean stations; 57° at Lisbon, 56° at Brest, 51° at Belmullet and Stornoway, as well as at Dungeness and North Foreland. Lowest 6° F. at Archangel, 18° at Helsingfors, and much below the freezing point over the Nrn. half of Russia generally; 39° at Berlin, 41° at Munich, and locally very low (32° F) at Paris. Falling decidedly over Scotland towards night.

Wind light and anticyclonic over Russia and central Europe, E. to SE. and moderate over France and the N. of Italy; SE. over England, S. over Ireland and Scotland. Falling light over the British Islands generally during the day, but increasing to a gale from SW. in the northwest of Norway.

Barometer highest 30.6 ins. to 30.2 ins. in an anticyclone covering the E. half of Europe. Lowest 29.7 ins. and less off the NW. of Norway and the NW. of Ireland, and below 30.1 ins. over the Azores on the one hand and the Mediterranean on the other. Falling later both in the Azores and Portugal as well in the W. of Lapland.

EXPLANATION OF THE 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.

N.B.—The morning observations are now made at 8 a.m. in the British Islands, Belgium, Germany, Sweden, and Norway, at 7 a.m. in France, and at 9 a.m. in Spain and Portugal. The evening observations are made at 8 p.m. at Oxford, but at 6 p.m. at the other stations in the British Islands and in France: at 8 p.m. in Sweden, Norway and Germany. The time at each Station is the Standard Time of its Country.

Subscriptions both for the Daily *and* Weekly Weather Reports *may be paid, in advance, to the* Meteorological Office.

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DAILY WEATHER REPORT

for 8 a.m. on Thursday 10th November, 1898.

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

	STATIONS.	YESTERDAY EVENING. (See note at bottom of last page.)					THIS MORNING. (See note at bottom of last page.)									PAST 24 HOURS.				
		Barom.	Temp.	Wind.			Barometer.		Temperature.			Wind.						Temp.		
		At 32° and M.S.L.	Dry Bulb.	Direc.	Force (0 to 12.)	Weather	At 32° Fahr. and M. S. L.	Change since Yesterday.	Dry Bulb.	Wet Bulb.	Change since Yesterday.	Direc.	Force (0 to 12.)	Weather.	Sea (0 to 9.)	Weather.	Hours of Bright Sunshine.	Max.	Min.	Rainfall.
		Ins.	°				Ins.	Ins.	°	°	°							°	°	Ins.
Scandinavia.	Haparanda ...	29.43	32	Z	0	b	29.69	−.06	36	35	+ 5	W	4	c	*	b	*	36	27	—
	Hernösand ...	29.84	44	SW	4	b	29.98	−.02	47	43	+ 8	W	2	b	*	b	*	47	39	—
	Stockholm ...	30.04	40	WNW	6	b	30.13	−.06	39	37	0	WSW	2	b	*	b	*	43	37	—
	Wisby	30.18	45	W	8	b	30.21	−.07	44	42	+ 3	NNW	6	o	*	b	*	46	36	—
	Karlstad ...	30.18	41	W	1	b	30.21	.00	34	?	− 7	W	1	f	*	b	*	*	*	—
	Bodö	29.61	46	SW	7	o	29.69	+ .04	46	46	+ 6	SW	7	r	5	o	*	46	37	0.35
	Christiansund ...	30.06	48	NSW	9	o	30.12	+ .08	48	44	− 2	WSW	6	b	5	o	*	50	46	—
	Skudesnaes ...	30.28	48	Z	0	o	30.24	−.03	45	44	− 2	Z	0	o	2	bc, o	*	50	43	*
	Færder (Christiania Fjord)	30.18	45	WSW	4	m	30.18	−.05	35	35	− 6	N	1	f	1	m	*	45	32	—
	Skagen (The Scaw)	30.25	42	WSW	3	f	30.21	−.07	44	44	+ 3	WSW	2	m	0	f	*	45	39	—
	Fanö	30.33	38	Z	0	m	30.28	−.06	38	38	− 1	E	2	f	*	m	*	41	37	—
	Sumburgh Head	30.16	45	Z	0	b	30.07	−.08	46	45	+ 3	S	1	c	3	b	*	53	41	0.01
	Stornoway ...	30.13	46	Z	0	b	30.02	−.14	48	47	+ 9	WSW	2	b	2	b	6.1	57	37	0.03
	Wick	30.21	49	NW	1	b	30.06	−.07	48	46	+ 8	S	1	c	1	b	*	52	30	—
	Nairn	30.19	37	Z	0	b	30.07	−.13	33	33	+ 2	Z	0	b	1	b	*	52	29	—
	Aberdeen ...	30.20	44	SSW	1	bmw	30.11	−.13	38	38	+ 3	SSW	2	bmw	1	b.bmw.f	2.8	48	30	0.01
British Islands.	Leith	30.21	47	Z	0	f	30.12	−.13	41	41	− 3	Z	0	f	*	f	*	47	38	0.01
	Shields	30.23	48	S	1	b	30.15	−.10	43	43	− 3	SSW	1	f	2	bf	*	53	38	—
	Spurn Head ...	30.21	49	NE	3	b	30.13	−.10	52	52	+ 4	ENE	1	b	2	b.w	*	53	46	—
	York	30.23	45	NE	1	f	30.16	−.10	41	41	+ 3	Z	0	f	*	f	0.0	48	38	0.01
	Loughborough ...	30.22	46	NE	2	f	30.14	−.10	46	46	+ 4	E	2	o.g.fw	*	f.mg.f	*	48	42	—
	Ardrossan ...	30.17	50	NNE	2	bf	30.08	−.13	40	40	− 6	NNE	3	bfw	1	bf	*	53	39	—
	Malin Head ...	30.11	51	SE	1	bm	30.02	−.12	48	47	− 2	SE	1	bf	0	bm	*	55	46	—
	Belmullet ...	30.09	51	SE	1	b	29.99	−.10	51	50	+ 2	SE	2	o	*	b	*	58	46	0.02
	Donaghadee ...	30.15	54	SSE	4	b	30.08	−.11	52	51	− 1	SE	4	c	2	b	*	55	50	—
	Liverpool (Bidston)	30.18	50	SE	2	bc	30.10	−.10	45	44	− 2	SE	4	b	?	bcm	*	54	44	—
	Holyhead ...	30.12	51	Z	0	b	30.04	−.10	47	46	− 4	Z	0	bcmw	0	b	*	57	46	—
	Parsonstown ...	30.08	54	Z	0	bc	29.99	−.11	52	51	+ 4	SE	1	o	*	bc	4.1	59	44	—
	Valencia ...	30.01	57	ESE	4	bcq	29.89	−.14	55	53	+ 4	ENE	4	bw	4	bcv, bcq	6.4	58	50	—
	Roche's Point ..	30.05	55	ESE	4	om	29.96	−.10	56	55	+ 2	SE	4	m	4	om	*	58	53	—
	Pembroke (St. Ann's Hd.)	30.06	53	ESE	4	b	29.99	−.12	52	51	− 1	ESE	4	ogm	3	o.b	0.0	54	50	—
	Scilly	29.94	57	E	4	o	29.86	−.16	56	56	+ 2	E	4	o	4	c.o	1.0	58	50	0.01
	Prawle Point ...	30.07	57	ENE	3	o	29.99	−.11	55	54	− 1	ENE	5	o	3	o	*	59	53	—
	Jersey (St. Aubin's)	30.03	59	ENE	2	bm	29.94	−.14	55	53	+ 1	E	3	bw	3	b.bmw	*	63	52	—
	Hurst Castle ...	30.10	56	E	2	bm	30.02	−.12	52	51	0	E	3	om	3	bcm, bm	*	58	51	—
	Dungeness ...	30.12	56	ENE	3	b	30.06	−.10	55	54	0	ESE	1	bc	1	m, b	*	58	53	—
Germany & Holland.	North Foreland	30.16	56	E	2	b	30.11	−.09	54	53	+ 3	E	2	m	1	c, bm	*	58	51	—
	London (Brixton) ...	30.16	55	E	1	om	30.10	−.09	51	51	0	ESE	1	ofg	*	gm	0.0	60	50	—
	Oxford	30.16	50	NE	1	o	30.09	−.12	49	48	+ 3	NE	2	of	*	o	*	54	46	—
	Cambridge ...	30.19	49	NE	1	b	30.12	−.12	49	49	+ 6	Z	0	f	*	b	3.3	58	42	—
	Yarmouth ...	30.17	53	NNE	2	om	30.11	−.11	52	51	0	ENE	2	bm	3	cdp.om	*	54	50	0.04
	Cuxhaven ...	30.28	39	E	1	f	30.22	−.08	39	39	+ 3	SE	2	o	*	f	*	41	36	—
	Berlin	30.30	43	Z	0	f	30.28	−.04	42	41	+ 6	Z	0	f	*	f	*	48	36	—
	Wiesbaden ...	*	*	*	*	*	30.25	−.03	40	39	0	E	1	o	*	*	*	41	39	—
	Munich	30.27	41	E	2	o	30.26	−.03	39	39	− 1	E	4	f	*	o	*	43	37	—
	The Helder ...	30.20	48	E	1	o	30.15	−.08	42	42	− 4	ESE	1	f	0	o	*	50	41	—
Belgium.	Brussels ...	?*	*	*	*	*	30.16	−.07	43	43	− 5	SE	1	m	*	o	*	62	41	—
	Cape Gris Nez ...		55	E	1	m	?	?	51	50	+ 1	E	.	m	0	m	*	57	48	—
	Paris	30.15	56	E	2	b	30.11	−.05	44	44	− 4	E	1	? bc	*	b	*	63	43	—
	Brest	29.92	58	ESE	2	o	29.86	−.14	55	54	+ 1	SE	2	c	2	o	*	61	48	—
	Lorient	29.99	58	SE	4	bc	29.89	−.12	53	52	0	ESE	4	c	4	bc	*	64	52	—
France &	Rochefort ...	30.01	59	E	2	bc	29.93	−.09	54	53	0	SE	4	c	*	bc	*	69	50	—
	Belfort	30.26	42	E	3	f	30.21	−.03	40	40	0	NE	2	f	*	f	*	52	39	—
	Lyons	30.20	53	NW	1	c	30.20	−.04	41	41	− 3	NNE	1	f	*	c	*	58	41	—
	Nice	30.19	58	SW	1	o	30.19	+ .01	52	49	− 3	E	4	bc	1	o	*	64	52	—
	Perpignan ...	30.10	60	E	3	b	30.06	−.05	53	53	+ 5	SW	2	b	*	b	*	68	48	—
	Biarritz ...	29.95	65	SE	4	c	29.89	−.08	63	54	0	SSW	4	o	2	c	*	72	50	—
Penin-sula.	Corunna ...																*			
	Lisbon	29.73	57	SSE	1	o	29.64	−.15	58	54	− 1	SW	4	o	*	o	*	64	57	1.73
	Azores (P Delgada)																*			

For Explanation of Columns, see bottom of last page. † *Received too late for Insertion in Charts on next page.*

NOTE: *The Sunshine for London given in this Table is now recorded on the tower of the Wesleyan Training College, Westminster.*

Bright Sunshine yesterday Southport 2.7 hrs;

WEATHER CHARTS

FOR Thursday, 10th November 1898

BAROMETER, WIND AND SEA.

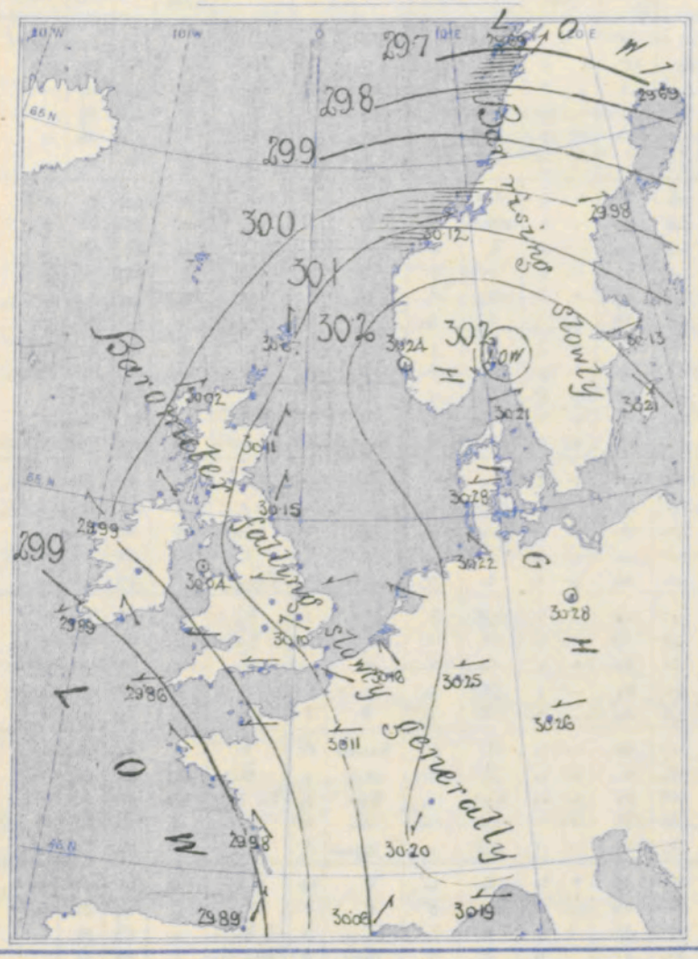
BAROMETER—Isobars are drawn for each tenth of an inch.

WIND—Arrows shew Directions and Force, flying with the wind.

Force above 10 ⟫⟶ ; *Force 5 to 7* ⟶ ; } Calm ⊙

Force 8 to 10 ⟫⟶ ; *Force 1 to 4* ⟶ ; }

SEA—Rough ▒ ; *High* ▒



TEMPERATURE & WEATHER.

TEMPERATURE—Isotherms are drawn for each 10°.

WEATHER—Shown by Letters of the Beaufort Scale.

RAINFALL—{ *A dotted line separates areas where rain has fallen from those without rain. The fall in past 24 hours when exceeding half an inch is shown thus*—0·6.

VALUES FOR PRESSURE, TEMPERATURE, RAINFALL, AND BRIGHT SUNSHINE IN THE MONTH OF NOVEMBER.

STATIONS.	PRESSURE AT 8 A.M. Means, 1871—95.	TEMPERATURE OF AIR. 1871-95. Means of Dry Bulb 8 a.m.	Means of Wet Bulb 8 a.m.	Means of Daily Maximum.	Means of Daily Minimum.	Absolute Extremes. Maximum	Years.	Minimum.	Years.	RAINFALL. Means, 1866—95.	BRIGHT SUNSHINE. Means, 1881—95. Hours.	Per cent. of possible.
	(Inches.)	°	°	°	°	°		°		(Inches.)		
Sumburgh Head	29·693	42·3	40·6	45·8	38·2	55	1890	21	1875	4·14	—	—
Stornoway	29·703	42·0	41·0	46·4	37·1	56	1881	20	1880	4·80	42·1	18
Wick	29·728	41·6	40·1	46·2	36·4	58	1885, 89	15	1884	2·93	—	—
Nairn	29·743	40·0	38·4	45·7	35·5	61	1885, 94	18	1880	2·14	—	—
Aberdeen	29·772	40·7	38·9	46·3	36·7	62	1872, 89	15	1880, 84	3·16	54·7	23
Leith	29·798	41·8	40·1	48·2	37·1	64	1872	18	1885	2·05	—	—
Shields	29·824	42·4	40·8	47·6	38·0	62	1881, 94	20	1880	2·39	—	—
Spurn Head	29·854	43·5	42·2	47·1	40·4	61*	1894, 95	28*	1884	2·28	—	—
York	29·859	40·9	39·7	47·7	36·6	62	1894, 95	14	1871	2·21	39·7	16
Loughborough	29·888	40·7	39·5	48·4	36·7	63*	1881, 93, 94, 95	19*	1887, 93	2·21	—	—
Ardrossan	29·799	43·3	41·6	47·9	39·2	69	1872	21	1880	3·78	—	—
Malin Head	29·755	43·9	42·0	48·0	40·9	—	—	—	—	—	—	—
Belmullet	29·799	45·3	43·3	49·4	41·5	—	—	—	—	5·92	—	—
Donaghadee	29·819	43·4	42·3	48·5	39·4	60	1894	27	1878, 83	3·10	—	—
Holyhead	29·845	45·9	44·2	49·8	42·9	62	1881	29	1880	3·96	—	—
Liverpool	29·862	42·7	40·9	48·0	39·7	63	1872	22	1880	2·31	—	—
Parsonstown	29·852	41·8	40·3	49·1	37·0	62	1874	20	1890	2·86	63·1	25
Valencia	29·867	47·4	45·5	52·3	42·9	63	1881	27	1890	5·63	63·8	25
Roche's Point	29·869	46·2	44·6	51·2	42·0	61	1875	27	1890	4·79	—	—
Pembroke	29·871	47·1	45·4	50·3	43·6	58	1884, 95	28	1890	4·04	58·8	23
Scilly	29·898	50·1	48·1	52·6	46·6	60	1875, 81	29	1890	3·80	—	—
Prawle Point	29·917	46·4	44·9	51·2	42·1	61*	1881	19*	1890	3·26	—	—
Jersey	29·937	48·0	46·0	52·3	44·3	64	1874, 81	16	1890	4·19	70·9	26
Hurst Castle	29·912	45·3	44·3	50·7	41·0	66	1874	20	1890	3·11	—	—
Dover	29·904	44·7	43·3	49·7	40·9	61	1895	17	1890	3·30	—	—
LONDON	29·910	42·5	41·1	49·6	38·3	65	1894	19	1879	2·31	29·5†	11†
Oxford	29·908	41·4	40·2	48·5	37·7	68	1881	19	1871, 87	2·42	55·4	22
Cambridge	29·901	41·0	40·1	48·9	36·0	65	1895	15	1890	2·07	61·7	24
Yarmouth	29·879	43·4	42·2	47·7	39·2	60	1895	23	1890	2·92	—	—

* Extremes of temperature at these Stations are from observations made during the 15 years—1881-95. † The Sunshine values are for Westminster.

GENERAL SITUATION AT 8 A.M.

PRESSURE

Highest 30·2 ins. and more over Germany, the Baltic and Denmark and exceeding 30·0 ins. almost all over the North Sea, France and England.
Lowest (1) Below 29·9 ins. over the Bay of Biscay; (2) below 29·7 ins. over Lapland.
Gradients slight in the E. moderate in the W. and N.
Barometer falling in most places, but the change was not decided.

TEMPERATURE

Highest 63° at Biarritz, 56° to 54° over our S.W. and S.W.ern countries.
Lowest (1) 34° at Karlstad, 36° at Haparanda, (2) 33° at Nairn, 38° at Aberdeen, 41° at York.
The maxima yesterday touched 63° at Jersey, 60° in London, and 55° to 58° in many other places.

WIND

Light from S.E. and E. over France and England, still more S.ly in Ireland, S.W. to S.ly in Scotland; it was strong from S.W. in the northwest of Norway, but the gale there had died down.

WEATHER

Still rainy at Bodo; dull to fair elsewhere, with fog or mist in many places, and very muggy at the S.W. stations.
The amount of Sunshine recorded yesterday exceeded 6 hrs. at Stornoway and Valencia, and exceeded 5 hrs. on some other parts of our W.ern and S.W. coasts. In London there was none.

SEA

Moderate on our S.W. coasts, slight to smooth elsewhere.

PROBABLE CHANGES IN SYSTEM NOW PREVALENT

No decided change is indicated at present.

FORECASTS

For the 24 hours ending at NOON on 11TH NOVEMBER 1898

DISTRICTS.		FORECASTS.
0	SCOTLAND NORTH	S.W.ly and S.ly winds; fair at first, rainy later, mild.
1	SCOTLAND EAST	
2	ENGLAND N.E.	Variable and S.ly airs, dull, misty, damp, mild.
3	ENGLAND EAST	Same as No. 5.
4	MIDLAND COUNTIES	Same as No. 2.
5	ENGLAND SOUTH	E.ly breezes, light, very misty, mild.
6	SCOTLAND WEST	Same as No. 0.
7	ENGLAND N.W.	S.E.ly breezes, damp, misty, mild.
8	ENGLAND S.W.	
9	IRELAND NORTH	
10	IRELAND SOUTH	

WARNINGS — None issued.

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

YESTERDAY'S 2 P.M. REPORTS.

	BAR.	THER. Dry.	THER. Wet.	WIND. Direc.	F.	WEA.	SEA.
Skudesnaes ...	30·28	50	48	2	0	bc	2
Sumburgh Head	30·15	50	49	WSW	1	b	3
Stornoway	30·13	51	55	2	0	b	0
Aberdeen	30·20	48	46	SSE	1	b	2
Shields	30·24	53	51	S	1	bf	2
Ardrossan	30·17	53	52	NNE	2	bf	1
Malin Head ...	30·12	54	52	S	2	bm	1
Belmullet	30·10	58	55	SSE	2	b	*
Holyhead	30·14	51	54	2	0	b	0
Valencia	30·01	58	53	ESE	4	bcv	4
Scilly	29·98	57	55	E	5	c	2
Jersey	30·07	58	52	ESE	3	b	3
Hurst Castle ...	30·10	58	55	ENE	3	bcm	2
Dungeness ...	30·13	57	56	ENE	3	m	2
North Foreland	30·18	57	56	E	2	c	2
London (Westminster)	30·16	59	57	E	1	bm	*
Yarmouth ...	30·19	54	53	NNE	2	cdp	3
Rochefort ...	30·03	69	65	SE	2	b	*

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

Weather in morning fair over the Mediterranean and SE.m Europe, as well as at the Irish and Scotch stations; gloomy and foggy in many parts of Germany, France and England; rainy in Portugal and the NW. of Norway. Rain considerable later at Bodö, but scarcely any reported elsewhere. Fog and mist continuing very prevalent, where reported in the morning.

Temperature changing very little. Morning readings highest (1) 65° at Malta, 61° at Algiers and Brindisi; (2) 63° at Biarritz, 56° at Prawle Pt., and above 50° at nearly all stations on the Wm and Sm coasts of the United Kingdom. Lowest 16° at Moscow, 20° at Kharkov and Archangel, and much below the freezing point over Russia generally; 31° at Haparanda and also at Nairn, 35° at Aberdeen, 38° at York; rising later to 55° and more over Ireland and England to 60° in London, 63° at Jersey - and Paris, and to 72° at Biarritz.

Wind (1) light from the Eand over France and England, from SE. in Ireland, and from the Wnd in Scotland, and blowing a gale from SW. in the northwest of Norway; (2) light and anticyclonic over the southeastern, central and eastern parts of Continental Europe. The gale in Norway subsiding later, no great change elsewhere.

Barometer highest 30.6 ins. and more over the S. of Russia, and exceeding 30.2 ins. over all the SEm and central countries, as well as the North Sea and the Baltic. Lowest below 29.8 ins. over Portugal and the Azores, and below 29.7 ins. over Lapland. Falling slightly in most places later, but rising in the NW. of Norway.

EXPLANATION OF THE 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.

N.B.—The morning observations are now made at 8 a.m. in the British Islands, Belgium, Germany, Sweden, and Norway, at 7 a.m. in France, and at 9 a.m. in Spain and Portugal. The evening observations are made at 8 p.m. at Oxford, but at 6 p.m. at the other stations in the British Islands and in France: at 8 p.m. in Sweden, Norway and Germany. The time at each Station is the Standard Time of its Country.

Subscriptions both for the Daily *and* Weekly Weather Reports *may be paid, in advance, to the* Meteorological Office.

TERMS: For Daily Weather Report, forwarded by Book Post, £1 0 0 per annum.
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DAILY WEATHER REPORT

for 8 a.m. on Friday 11th November, 1898.

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

	STATIONS.	YESTERDAY EVENING. (See note at bottom of last page.)					THIS MORNING. (See note at bottom of last page.)								PAST 24 HOURS.				
		Barom.	Temp.	Wind.		Weather	Barometer.		Temperature.			Wind.		Weather.	Sea (0 to 9.)	Weather.	Hours of Bright Sunshine.	Temp.		Rainfall.
		At 32° and M.S.L.	Dry Bulb.	Direc.	Force (0 to 12.)		At 32° Fahr. and M. S. L.	Change since Yesterday.	Dry Bulb.	Wet Bulb.	Change since Yesterday.	Direc.	Force (0 to 12.)					Max.	Min.	
		Ins.	°				Ins.	Ins.	°	°	°							°	°	Ins.
Scandinavia.	Haparanda ...	29.73	41	SW	4	b	29.88	+ .19	37	36	+ 1	L	0	b	*	b	*	41	25	—
	Hernösand ...	30.06	44	N	1	b	30.07	+ .09	32	32	— 15	L	0	b	*	b	*	?	?	—
	Stockholm ...	30.21	35	L	0	b	30.23	+ .10	39	37	0	L	0	f	*	b	*	43	34	—
	Wisby	30.26	43	NW	4	bc	30.29	+ .08	41	39	— 3	W	4	o	*	bc	*	45	39	—
	Karlstad ..	30.23	39	L	0	o	30.20	— .01	44	42	+ 10	W	2	o	*	o	*	*	*	—
	Bodö	29.84	47	SW	8	r	29.80	+ .11	47	45	+ 1	SW	8	o	6	r	*	47	45	0.63
	Christiansund ...	30.08	43	L	0	b	30.03	— .09	45	42	— 3	ESE	2	c	4	b	*	48	39	—
	Skudesnaes ...	30.20	46	ESE	2	o	30.21	— .03	47	46	+ 2	SE	4	o	2	o	*	47	43	*
	Færder (Christiania Fjord)	30.21	37	L	0	f	30.23	+ .05	40	40	+ 5	WNW	2	m	1	f	*	40	34	—
	Skagen (The Scaw)	30.24	45	SW	2	r	30.26	+ .05	41	41	— 3	L	0	m	0	r	*	48	41	—
	Fanö	30.23	43	E	2	m	30.23	— .05	43	43	+ 5	E	2	m	*	m	*	43	38	—
British Isls.	Sumburgh Head	29.98	48	S	2	o	29.95	— .12	48	47	+ 2	L	0	c	2	o	*	51	45	—
	Stornoway ...	29.93	51	SW	3	r	29.91	— .11	51	50	+ 3	WSW	3	m	3	bc, r	0.8	53	46	0.04
	Wick	29.96	48	S	1	b	29.96	— .10	47	45	— 1	S	1	bc	1	b	*	53	40	—
	Nairn	30.00	41	L	0	bc	29.98	— .09	37	37	+ 4	L	0	bcm	1	bc	*	46	31	—
	Aberdeen ...	30.03	45	SSW	1	bcmr	30.05	— .06	46	45	+ 8	SSW	2	ogmr	1	bcmr	1.7	49	36	—
	Leith	30.06	43	L	0	f	30.06	— .06	43	43	+ 2	L	0	f	*	f	*	43	37	—
	Shields	30.09	49	S	1	bf	30.10	— .05	49	48	+ 6	S	2	f	2	cf, bf	*	51	41	—
	Spurn Head ...	30.08	51	E	3	b	30.09	— .04	50	50	— 2	SE	3	c	3	b, mw	*	54	50	0.01
	York	30.10	47	NE	1	f	30.10	— .06	50	50	+ 9	E	1	f	*	f	0.0	50	41	0.01
	Loughborough ...	30.09	50	ENE	2	o	30.10	— .04	46	45	0	E	1	ogfd	*	cm, opd	*	52	45	0.01
	Ardrossan ...	30.03	46	NNE	3	bf	30.02	— .06	41	41	+ 1	N	3	cfw	1	bf	*	52	38	—
	Malin Head ...	29.97	49	SSW	1	bm	29.92	— .10	48	47	0	SSW	1	c, m	0	bm	*	53	46	—
	Belmullet ...	29.94	52	SSE	2	b	29.90	— .09	46	46	— 5	SE	2	c	*	bc, b	*	57	44	0.01
	Donaghadee ...	30.01	45	SSE	1	m	30.01	— .07	52	51	0	SE	3	cm	1	m	*	56	42	—
	Liverpool (Bidston)	30.06	47	SE	3	bc	30.06	— .04	47	47	+ 2	SE	2	mr	?	bcm	*	50	44	—
	Holyhead ...	29.99	53	L	0	bm	30.00	— .04	48	48	+ 1	NE	1	cfw	1	bcm, b	*	59	44	—
	Parsonstown ...	29.96	50	L	0	c	29.94	— .05	52	50	0	L	0	o	*	c	0.0	55	45	—
	Valencia ...	29.89	58	E	4	cq	29.85	— .04	56	52	+ 1	E	3	bcmr	4	bq, cq	3.1	61	54	—
	Roche's Point ..	29.95	56	ESE	4	m	29.90	— .06	55	54	— 1	SE	5	m	4	m	*	57	54	—
	Pembroke (St. Ann's Hd.)	29.96	53	ESE	4	o	29.94	— .05	52	51	0	ESE	5	og	4	o	0.0	53	51	—
	Scilly	29.85	57	E	5	o	29.82	— .04	57	56	+ 1	E	5	c	3	c, cm	1.2	59	54	—
	Prawle Point ...	29.97	56	ENE	4	cm	29.96	— .03	56	55	+ 1	ENE	5	cm	3	cm	*	57	54	—
	Jersey (St. Aubin's)	29.93	59	ESE	3	bcm	29.95	+ .01	55	53	0	NE	2	bm	2	c, bcmr	*	61	55	0.01
	Hurst Castle ...	29.94	55	ENE	2	bcm	30.01	— .01	52	51	0	NE	4	cm	2	cm, bcm	*	56	51	—
	Dungeness ...	30.02	57	E	2	bc	30.06	.00	50	50	— 5	SE	3	cm	2	b, bc	*	60	50	—
	North Foreland	30.07	57	E	2	b	30.08	— .03	51	50	— 3	E	2	b	2	b	*	59	50	—
	London (Brixton) ...	30.03	53	E	1	m	30.07	— .03	47	47	— 4	E	1	fg	*	ogf, b	0.0	56	46	—
	Oxford	30.06	50	NE	2	o	30.07	— .02	46	46	— 3	E	1	of	*	o	*	53	45	—
	Cambridge ...	30.08	50	NNE	1	f	30.10	— .02	50	50	+ 1	E	1	fw	*	f	0.0	52	41	—
	Yarmouth ...	30.07	53	ENE	2	bcmr	30.07	— .04	52	51	0	ESE	4	bcm	4	b, bcmr	*	54	50	0.01
Germany & Holland.	Cuxhaven ...	30.17	45	SE	1	o	30.21	— .01	43	43	+ 4	L	0	f	*	o	*	46	39	—
	Berlin	30.25	42	SE	2	o	30.24	— .04	43	43	+ 1	SE	2	o	*	o	*	46	42	—
	Wiesbaden ...	*	*	*	*	*	30.25	.00	41	38	+ 1	L	0	o	*	*	*	41	37	—
	Munich	30.24	42	NE	3	f	30.26	.00	35	35	— 4	SE	1	f	*	f	*	43	34	—
	The Helder ...	30.13	41	L	0	f	30.16	+ .01	39	39	— 3	E	1	f	0	f	*	43	39	—
Belgium.	Brussels ...	*	*	*	*	*	30.15	— .01	43	41	0	SE	2	b	*	b	*	61	37	—
	Cape Gris Nez ...	?	54	L	0	m	?	?	47	45	— 4	E	1	m	0	m	*	59	45	—
	Paris	30.06	53	NE	1	b	30.07	— .04	44	43	0	ENE	2	bc	*	b	*	65	42	—
	Brest	29.81	57	ESE	2	b	29.82	— .04	55	53	0	ESE	3	bc	2	bc	*	59	52	—
	Lorient	29.84	55	SE	4	o	29.89	.00	54	54	+ 1	SE	4	b	3	o	*	63	52	—
France &	Rochefort ...	29.84	58	SE	3	c	29.92	— .01	55	54	+ 1	SSE	3	bc	*	c	*	66	50	—
	Belfort	30.19	42	NE	2	f	30.20	— .01	40	40	0	E	3	f	*	f	*	46	39	—
	Lyons ...	30.13	52	NE	1	b	30.15	— .05	40	40	— 1	N	1	b	*		*	58	40	—
	Nice	30.16	56	E	2	b	30.20	+ .01	51	48	— 1	E	1	b	1	b	*	64	48	—
	Perpignan ...	30.03	61	SE	2	b	30.06	.00	62	61	+ 9	SE	2	o	*	b	*	71	53	—
	Biarritz ...	29.77	61	ESE	4	c	29.85	— .04	60	55	— 3	S	5	o	2	c	*	72	55	0.20
Peninsula.	Corunna ...																*			
	Lisbon	29.71	59	SSE	4	o	29.54	— .10	57	55	— 1	SSW	5	r	*	o	*	61	54	0.55
	Azores (P. Delgada)	30.07	61	NNW	3	o	30.12	+ .18	60	54	+ 3	NW	1	o	3	o	*	64	57	—

For Explanation of Columns, see bottom of last page. † *Received too late for Insertion in Charts on next page.*

NOTE: *The Sunshine for London given in this Table is now recorded on the tower of the Wesleyan Training College, Westminster.*

Bright Sunshine yesterday Southport 3.4 hrs;

WEATHER CHARTS

FOR Friday, 11th November, 1898

BAROMETER, WIND AND SEA.

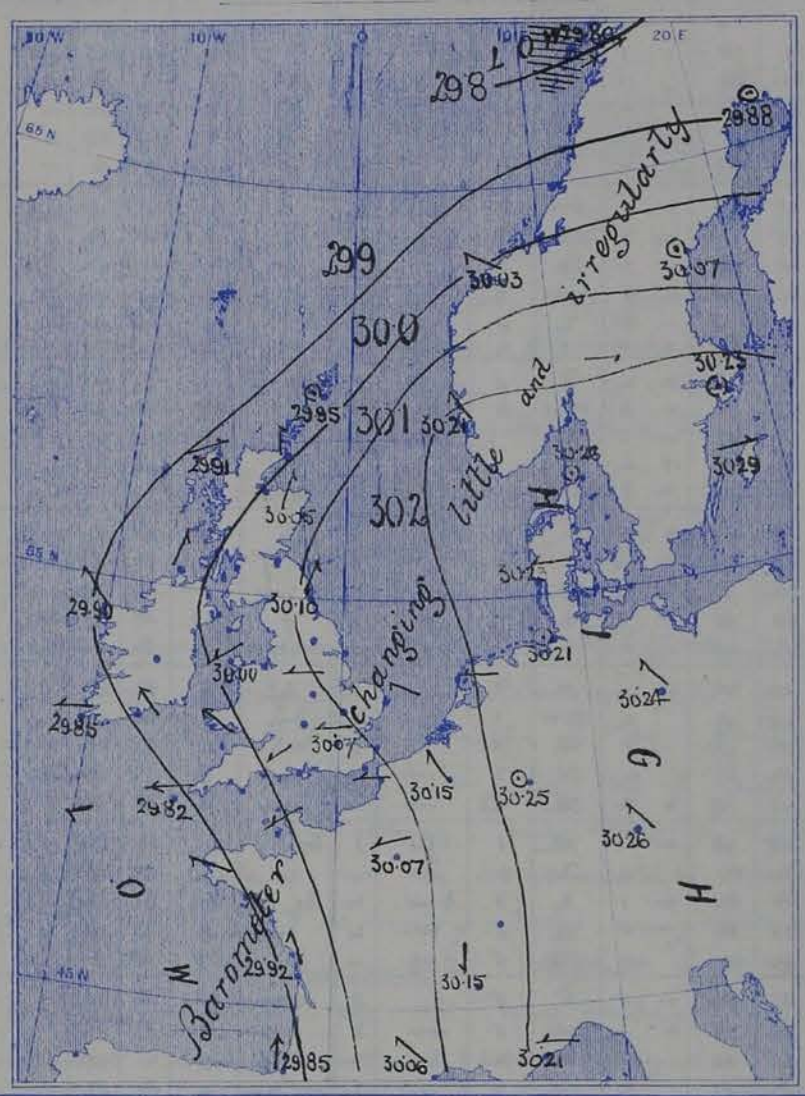
BAROMETER—Isobars are drawn for each tenth of an inch.

WIND—Arrows shew Directions and Force, flying with the wind.

Force above 10 ⟶⟶ ; Force 5 to 7 ⟶ ; } Calm ⊙

Force 8 to 10 ⟶ ; Force 1 to 4 ⟶ ; }

SEA—Rough ≡ ; High ▬

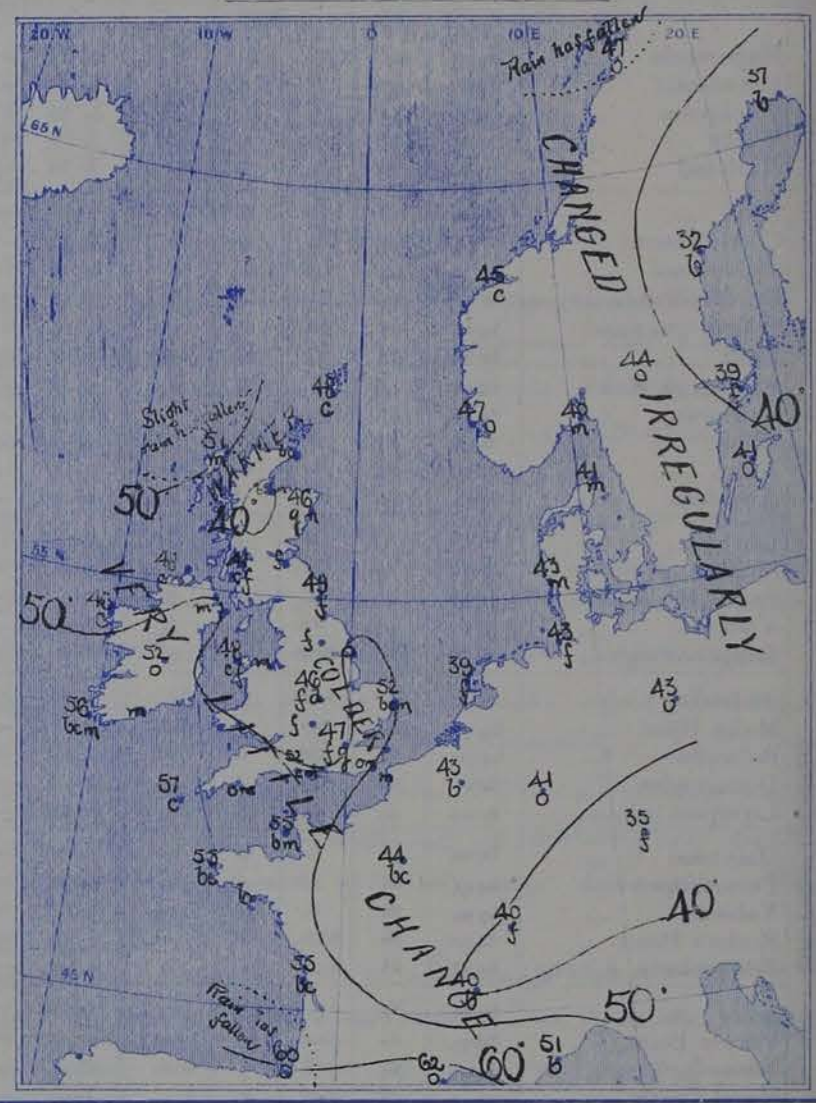


TEMPERATURE & WEATHER.

TEMPERATURE—Isotherms are drawn for each 10°.

WEATHER—Shown by Letters of the Beaufort Scale.

RAINFALL—{ A dotted line separates areas where rain has fallen from those without rain. The fall in past 24 hours when exceeding half an inch is shown thus—0·6.



VALUES FOR PRESSURE, TEMPERATURE, RAINFALL, AND BRIGHT SUNSHINE
IN THE MONTH OF NOVEMBER.

STATIONS.	PRESSURE AT 8 A.M. Means, 1871—95.	TEMPERATURE OF AIR. 1871-95. Means of				Absolute Extremes.				RAINFALL. Means, 1866—95.	BRIGHT SUNSHINE. Means, 1881—95.	
		Dry Bulb 8 a.m.	Wet Bulb 8 a.m.	Daily Maximum.	Daily Minimum.	Maximum	Years.	Minimum.	Years.		Hours.	Per cent. of possible.
	(Inches.)	°	°	°	°	°		°		(Inches.)		
Sumburgh Head	29·693	42·3	40·6	45·8	38·2	55	1890	21	1875	4·14	—	—
Stornoway	29·703	42·0	41·0	46·4	37·1	56	1881	20	1880	4·80	42·1	18
Wick	29·728	41·6	40·1	46·2	36·4	58	1885, 89	15	1884	2·93	—	—
Nairn	29·743	40·0	38·4	45·7	35·5	61	1885, 94	18	1880	2·14	—	—
Aberdeen	29·772	40·7	38·9	46·3	36·7	62	1872, 89	15	1880, 84	3·16	54·7	23
Leith	29·798	41·8	40·1	48·2	37·1	64	1872	18	1885	2·05	—	—
Shields	29·824	42·4	40·8	47·6	38·0	62	1881, 94	20	1880	2·39	—	—
Spurn Head	29·854	43·5	42·2	47·1	40·4	61*	1894, 95	28*	1884	2·28	—	—
York	29·859	40·9	39·7	47·7	36·6	62	1894, 95	14	1871	2·21	39·7	16
Loughborough	29·888	40·7	39·5	48·4	36·7	63*	1881, 93, 94, 95	19*	1887, 93	2·21	—	—
Ardrossan	29·799	43·3	41·6	47·9	39·2	69	1872	21	1880	3·78	—	—
Malin Head	29·755	43·9	42·0	48·0	40·9	—	—	—	—	—	—	—
Belmullet	29·799	45·3	43·3	49·4	41·5	—	—	—	—	5·92	—	—
Donaghadee	29·819	43·4	42·3	48·5	39·4	60	1894	27	1878, 83	3·10	—	—
Holyhead	29·845	45·9	44·2	49·8	42·9	62	1881	29	1880	3·96	—	—
Liverpool	29·862	42·7	40·9	48·0	39·7	63	1872	22	1880	2·81	—	—
Parsonstown	29·852	41·8	40·3	49·1	37·0	62	1874	20	1890	2·86	63·1	25
Valencia	29·867	47·4	45·5	52·3	42·9	63	1881	27	1890	5·63	63·8	25
Roche's Point	29·869	46·2	44·6	51·2	42·0	61	1875	27	1890	4·79	—	—
Pembroke	29·871	47·1	45·4	50·3	43·6	58	1884, 95	28	1890	4·04	58·8	23
Scilly	29·898	50·1	48·1	52·6	46·6	60	1875, 81	29	1890	3·80	—	—
Prawle Point	29·917	46·4	44·9	51·2	42·1	61*	1881	19*	1890	3·26	—	—
Jersey	29·937	48·0	46·0	52·3	44·3	64	1874, 81	16	1890	4·19	70·9	26
Hurst Castle	29·912	45·3	44·3	50·7	41·0	66	1874	20	1890	3·11	—	—
Dover	29·904	44·7	43·3	49·7	40·9	61	1895	17	1890	3·30	—	—
LONDON	29·910	42·5	41·1	49·6	38·3	65	1894	19	1879	2·31	29·5†	11†
Oxford	29·908	41·4	40·2	48·5	37·7	68	1881	19	1871, 87	2·42	55·4	22
Cambridge	29·901	41·0	40·1	48·9	36·0	65	1895	15	1890	2·07	61·7	24
Yarmouth	29·879	43·4	42·2	47·7	39·2	60	1895	23	1890	2·92	—	—

* Extremes of temperature at these Stations are from observations made during the 15 years—1881-95. † The Sunshine values are for Westminster.

GENERAL SITUATION AT 8 A.M.

PRESSURE

Highest 30.2 ins. and more over Germany, the Baltic and the S. of Sweden.
Lowest. Below 29.8 ins. over the Bay of Biscay and over the NW. of Lapland.
Gradients slight over the E^rn. parts of our area, moderate in the SW, W, and NW.
Barometer changing very little and rather irregularly.

TEMPERATURE

Highest 62° at Perpignan, 60° at Biarritz, 57° at Scilly, and 55° to 50° over the SW^rn. and S^rn. countries generally.
Lowest (1) 32° to 39° over the more N^rn. of the Swedish stations; 37° at Nairn, 41° at Andrarum; (2) 35° at Munich, 40° at Belfort and Lyons.
The maxima recorded yesterday exceeded 60° at several of our SW^rn. and S^rn. coast-stations and exceeded 70° in the extreme SW. of France, but did not reach 50° in the extreme NE. of Scotland.

WIND

Light to moderate from E. and NE. over central France, the English Channel and many parts of England; SE^ly., moderate to fresh, on our western coasts; S^ly. and SW^ly., very light at the Scotch stations; SW^ly., strong, at Bodö (NW of Norway).

WEATHER

Still very quiet, and fair, in most places, but with a great deal of fog or mist at the English stations, clear skies in the W. and over France.
Considerable rain has again fallen at Bodö. Bright Sunshine recorded yesterday, was 5 to 6 hrs. and more on several parts of our S^rn. and W^rn. coasts, but there was none either at York, Cambridge, Parsonstown or in London.

SEA

Still moderate on our SW. coasts, slight to very smooth elsewhere.

PROBABLE CHANGES IN SYSTEM NOW PREVALENT

No decided indication of change is shown at present.

FORECASTS

For the 24 hours ending at NOON on 12TH NOVEMBER 1898

DISTRICTS.		FORECASTS.
0	SCOTLAND NORTH	S^ly. breezes, moderate or light; fair as a whole.
1	SCOTLAND EAST	
2	ENGLAND N.E.	E^ly. and SE^ly. breezes, light; hazy or foggy.
3	ENGLAND EAST	
4	MIDLAND COUNTIES	
5	ENGLAND SOUTH	E^ly. breezes, light; foggy.
6	SCOTLAND WEST	Same as Nos. 0 and 1.
7	ENGLAND N.W.	SE^ly. breezes, light; fair.
8	ENGLAND S.W.	Same as No. 5.
9	IRELAND NORTH	Same as No. 7.
10	IRELAND SOUTH	
	WARNINGS	None issued.

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

YESTERDAY'S 2 P.M. REPORTS.

	BAR.	THER. Dry.	THER. Wet.	WIND. Direc.	F.	WEA.	SEA.
Skudesnaes ...	30·21	45	44	E	2	o	2
Sumburgh Head	29·99	49	47	S	1	o	3
Stornoway	29·95	53	51	2	o	bc	o
Aberdeen	30·04	47	46	S	2	bcm	1
Shields	30·10	50	48	S	1	cf	2
Ardrossan	30·03	52	51	NNE	3	bf	1
Malin Head ...	29·98	52	50	SSW	1	bm	o
Belmullet	29·95	57	54	SSE	2	bc	*
Holyhead	30·00	58	55	SE	1	bc	o

	BAR.	THER. Dry.	THER. Wet.	WIND. Direc.	F.	WEA.	SEA.
Valencia	29·82	60	55	E	5	bq	5
Scilly	29·81	58	56	E	6	c	3
Jersey	29·92	60	57	ESE	4	c	4
Hurst Castle ...	30·00	56	54	ENE	3	om	2
Dungeness ...	30·04	58	56	ESE	2	b	1
North Foreland	30·04	59	56	E	2	b	1
London (Westminster)	30·04	57	55	E	1	bm	#
Yarmouth ...	30·07	54	53	ENE	2	bm	2
Rochefort ...	29·88	64	59	SSE	3	c	#

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

Weather in morning still very foggy over central Europe and the greater part of England. Fair but hazy in France and Ireland, fine in Scotland; rain falling at Bodö; snow at Moscow. Considerable rain later at Bodö, and two tenths of an inch at Biarritz; no important fall elsewhere.

Temperature in morning highest 71° at Nemours, and ranging from 55° to 65° over the greater part of the Mediterranean; 63° at Biarritz, 56° at Scilly and Roche's Pt., and 50° to 55° on our S.W. coasts generally. Lowest (1) 29° at Archangel and Kharkov, 30° at Moscow, 36° at Kiev; (2) 32° at Warsaw, 34° at Cracow; (3) 33° at Nairn, 38° at Aberdeen, 41° at York. Rising later to between 53° and 61° over Ireland and England to 61° at Brussels, 65° at Paris, and 72° at Biarritz.

Wind (1) very light and and cyclonic over central and E.rn Europe, as well as over the North Sea and Denmark; (2) SE. to E. over the Atlantic and Channel shores, both of Continental Europe and our Islands; S. and SW. over Scotland; (3) SW. and strong in the northwest of Norway; NW. to W. over Finland and Russia.

Barometer highest 30.4 ins. and more over Hungary, and exceeding 30.1 ins. all over SE.rn and central Europe, the Baltic and the North Sea. Lowest below 29.7 ins. over Portugal on the one hand, and over Lapland on the other. Falling unsteadily over our Islands later but no decided change reported

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EXPLANATION OF THE 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.

N.B.—The morning observations are now made at 8 a.m. in the British Islands, Belgium, Germany, Sweden, and Norway, at 7 a.m. in France, and at 9 a.m. in Spain and Portugal. The evening observations are made at 8 p.m. at Oxford, but at 6 p.m. at the other stations in the British Islands and in France; at 8 p.m. in Sweden, Norway and Germany. The time at each Station is the Standard Time of its Country.

Subscriptions both for the Daily *and* Weekly Weather Reports *may be paid, in advance, to the* Meteorological Office.

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DAILY WEATHER REPORT

for 8 a.m. on Saturday 12th November, 1898.

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

	STATIONS.	YESTERDAY EVENING. (See note at bottom of last page.) Barom. At 32° and M.S.L.	Temp. Dry Bulb.	Wind. Direc.	Wind. Force (0 to 12.)	Weather	THIS MORNING. (See note at bottom of last page.) Barometer. At 32° Fahr. and M. S. L.	Barometer. Change since Yesterday.	Temperature. Dry Bulb.	Temperature. Wet Bulb.	Temperature. Change since Yesterday.	Wind. Direc.	Wind. Force (0 to 12.)	Weather.	Sea (0 to 9.)	PAST 24 HOURS. Weather.	Hours of Bright Sunshine.	Temp. Max.	Temp. Min.	Rainfall.
		Ins.	°				Ins.	Ins	°	°	°							°	°	Ins.
Scandinavia	Haparanda ...	29.84	37	WNW	2	bc	30.01	+ .13	37	35	0	NW	2	bc	#	bc	#	41	32	—
	Hernösand ...	30.13	33	7	0	b	30.15	+ .08	35	35	+ 3	7	0	b	#	b	#	45	32	—
	Stockholm ...	30.20	41	7	0	b	30.27	+ .04	37	37	— 2	SW	2	0	#	b	#	43	32	—
	Wisby	30.32	41	W	4	c	30.30	+ .01	42	40	+ 1	WNW	4	0	#	c	#	43	37	—
	Karlstad ...	30.26	42	W	2	0	30.26	+ .06	41	40	— 3	NW	1	f	#	0	#	#	#	—
	Bodö	29.89	44	SW	7	r	30.04	+ .24	41	39	— 6	7	0	b	1	r	#	47	39	0.28
	Christiansund ...	30.08	49	7	0	0	30.02	— .01	43	40	— 2	7	0	bc	3	0	#	49	43	—
	Skudesnaes ...	30.22	47	7	0	0	30.11	— .10	47	46	0	SSE	6	0	3	0	#	48	45	#
	Færder (Christiania Fjord)	30.25	44	7	0	0	30.23	.00	37	37	— 3	N	4	m	2	0	#	45	37	—
	Skagen (The Scaw)	30.28	45	SW	1	m	30.23	— .03	45	45	+ 4	SE	1	m	0	m	#	46	41	—
	Fanö	30.25	44	E	2	m	30.15	— .08	44	44	+ 1	E	4	m	#	m	#	45	43	—
	Sumburgh Head	29.91	49	S	3	0	29.69	— .26	49	48	+ 1	SSE	5	0	5	bc, 0	#	52	46	—
	Stornoway ...	29.79	51	WSW	3	b	29.49	— .42	53	52	+ 2	S	5	0	5	bo, b	0.8	54	48	—
	Wick	29.86	49	S	2	b	29.61	— .35	50	49	+ 3	S	5	bc	3	b	#	52	45	—
	Nairn	29.87	54	W	1	bc	29.59	— .39	55	49	+ 18	SW	1	c	1	bc	#	55	35	—
	Aberdeen ...	29.98	49	S	3	og	29.73	— .32	50	49	+ 4	SSE	5	ogq	5	ogm, og	0.0	50	46	—
British Islands.	Leith	29.96	44	7	0	m	29.69	— .37	41	41	— 2	7	0	f	#	m	#	47	37	—
	Shields	30.02	50	SSW	2	m	29.79	— .31	50	50	+ 1	SSW	3	m	2	f, m	#	51	46	—
	Spurn Head ...	30.00	52	ESE	4	cw	29.83	— .26	49	49	— 1	SSE	4	0	3	cw	#	52	48	—
	York	30.04	49	E	1	0	29.80	— .30	48	48	— 2	SE	1	of	#	0	0.0	51	44	—
	Loughborough ...	30.02	50	SE	1	f	29.83	— .27	48	47	+ 2	SE	2	ogf	#	f, om, fd	#	51	46	0.01
	Ardrossan ...	29.91	44	N	2	bf	29.65	— .37	51	61	+ 10	E	3	of	3	bf	#	51	39	—
	Malin Head ...	29.78	51	SSE	2	cm	29.46	— .46	54	52	+ 6	S	4	og	2	cm	#	54	47	—
	Belmullet ...	29.78	53	ESE	1	bc	29.55	— .35	49	48	+ 3	WSW	2	r	#	o, bc	#	55	44	0.30
	Donaghadee ...	29.89	53	SW	4	m	29.64	— .37	54	54	+ 2	S	6	o	4	m	#	54	50	0.01
	Liverpool (Bidston)	29.96	47	SE	4	o	29.74	— .32	49	47	+ 2	SE	3	c	3	ofd	#	50	46	—
	Holyhead ...	29.89	52	7	0	b	29.69	— .31	54	52	+ 6	S	3	cm	2	c, b	#	58	47	—
	Parsonstown ...	29.81	56	SE	1	0	29.55	— .39	55	53	+ 3	SE	2	0	#	0	0.1	57	51	—
	Valencia ...	29.75	57	SSE	3	ogm	29.61	— .24	50	49	— 6	WSW	3	og	4	cm, ogm	1.8	60	50	0.5
	Roche's Point ...	29.80	56	SE	5	m	29.61	— .29	54	54	— 1	W	5	r	4	m	#	57	54	0.15
	Pembroke (St. Ann's Hd.)	29.86	53	ESE	5	o	29.71	— .23	55	54	+ 3	SSE	4	o	3	o	?	55	52	—
	Scilly	29.80	57	ESE	3	r	29.70	— .12	57	55	0	SW	2	r	1	c, r	7.0	60	54	0.02
	Prawle Point ...	29.91	56	ESE	3	c	29.75	— .21	55	54	— 1	ENE	2	c	1	c	#	60	53	—
	Jersey (St. Aubin's)	29.98	58	ENE	1	b...	29.76	— .19	56	55	+ 1	E	2	cw	2	b, bmw	#	62	50	—
	Hurst Castle ...	29.95	54	E	4	om	29.79	— .22	56	55	+ 4	E	2	cm	2	bcm, omw	#	58	52	—
	Dungeness ...	29.98	53	SE	1	cw	29.84	— .22	50	50	0	SE	3	cw	2	c, cm	#	60	49	0.01
	North Foreland	30.03	59	E	3	b	29.84	— .24	50	49	— 1	E	3	bfw	2	f, b	#	54	49	—
	London (Brixton) ...	30.00	49	ESE	1	bm	29.86	— .21	46	46	— 1	ESE	1	fg	#	gf	0.0	56	44	—
	Oxford	29.98	48	7	0	f	29.83	— .24	49	49	+ 3	SE	1	f	#	of	#	54	46	0.01
	Cambridge ...	30.01	49	E	1	b	29.85	— .25	48	48	— 2	7	0	fw	#	b	0.6	55	46	—
	Yarmouth ...	30.01	53	ESE	3	b	29.87	— .20	51	50	— 1	SE	4	cg	4	b	#	54	49	0.01
Germany & Holland	Cuxhaven ...	30.20	45	SSE	1	0	30.09	— .12	44	43	+ 1	SE	1	0	#	f, 0	#	45	43	—
	Berlin	30.22	45	SE	1	0	30.16	— .08	42	41	— 1	SE	2	0	#	0	#	46	41	—
	Wiesbaden ...	#	#	#	#	#	30.13	— .12	39	38	— 2	E	1	0	#	#	#	41	39	—
	Munich	30.22	40	SE	3	f	30.17	— .09	37	37	+ 2	SE	2	f	#	f	#	43	35	—
	The Helder ...	30.11	40	SE	1	f	29.97	— .19	40	39	+ 1	ESE	2	m	1	f	#	41	39	—
Belgium.	Brussels ...	?	#	#	#	#	29.95	— .20	43	41	0	NE	1	b	#	b	#	65	41	—
	Cape Gris Nez ...	?	50	SE	2	m	?	?	45	43	— 2	SSE	1	m	1	m	#	57	41	—
	Paris	30.01	52	7	0	b	29.89	— .18	46	45	+ 2	SE	1	bc	#	b	#	64	44	—
	Brest	29.80	59	SE	2	bc	29.73	— .09	53	53	— 2	E	1	c	1	bc	#	64	50	0.08
	Lorient	29.86	58	SE	1	r	29.75	— .14	55	55	+ 1	ENE	2	0	2	r	#	64	60	—
France &	Rochefort ...	29.88	59	ESE	2	b	29.81	— .11	57	56	+ 2	SSE	3	0	#	c, b	#	66	52	—
	Belfort	30.15	41	NE	4	f	30.09	— .11	39	39	— 1	E	1	f	#	f	#	45	38	—
	Lyons	30.06	55	SE	1	c	30.02	— .13	51	49	+ 11	S	1	c	#	c	#	64	40	—
	Nice	30.15	56	NE	2	bc	30.15	— .05	54	49	+ 3	E	2	c	4	bc	#	64	50	—
	Perpignan ...	29.99	57	SE	2	t	29.96	— .10	60	60	— 2	S	2	t	#	rt	#	66	55	2.09
	Biarritz ...	29.77	60	E	3	0	29.78	— .07	59	54	— 1	S	4	0	1	0, tw	#	64	55	0.12
Peninsula.	Corunna ...																#			
	Lisbon	29.68	56	SSW	6	r	29.75	+ .21	54	52	— 3	NE	5	r	#	r	#	63	54	0.47
	Azores (P. Delgada)	30.19	60	WNW	1	c	30.24	+ .12	59	54	— 1	NNW	3	c	2	c	#	64	57	—

For Explanation of Columns, see bottom of last page. † *Received too late for Insertion in Charts on next page.*

NOTE: *The Sunshine for London given in this Table is now recorded on the tower of the Wesleyan Training College, Westminster.*

Bright Sunshine yesterday Southport ... 0.4 hrs;

WEATHER CHARTS

FOR Saturday, 12th November, 1898

BAROMETER, WIND AND SEA.

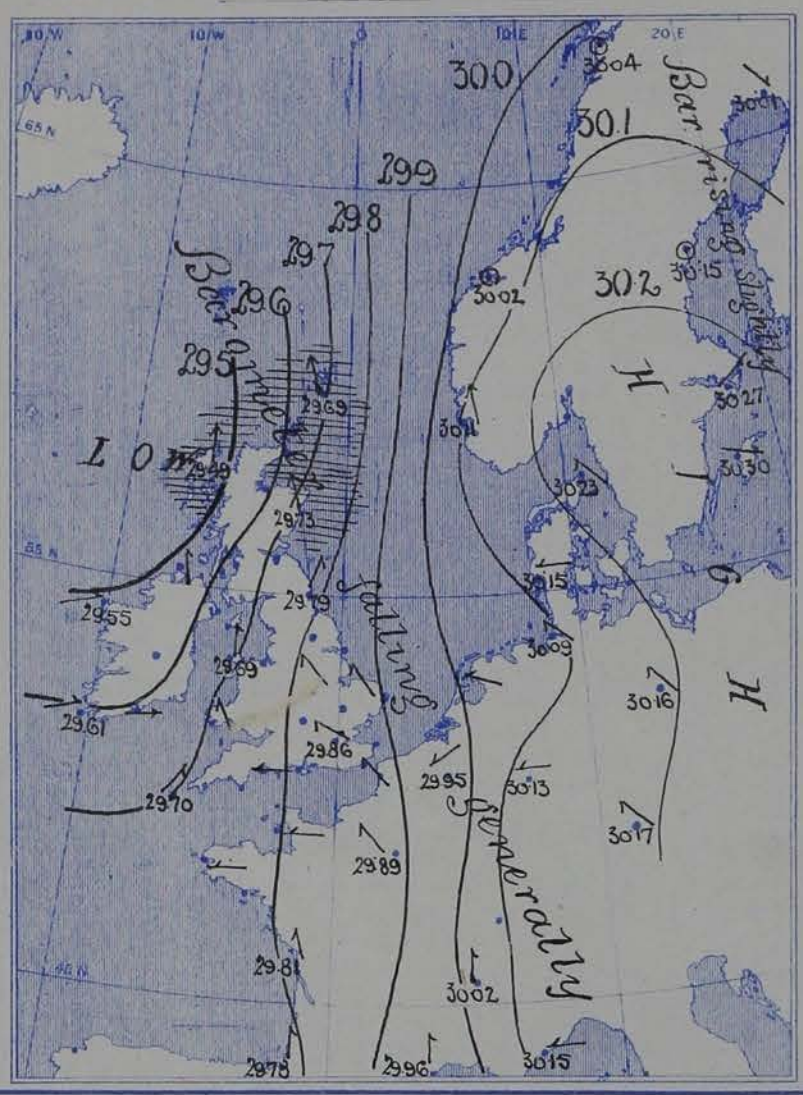
BAROMETER—Isobars are drawn for each tenth of an inch.

WIND—Arrows shew Directions and Force, flying with the wind.

Force above 10 ⟶⟶ ; Force 5 to 7 ⟶ ; } Calm ⊙

Force 8 to 10 ⟶ ; Force 1 to 4 ⟶ ; }

SEA—Rough ≡ ; High ▬



TEMPERATURE & WEATHER.

TEMPERATURE—Isotherms are drawn for each 10°.

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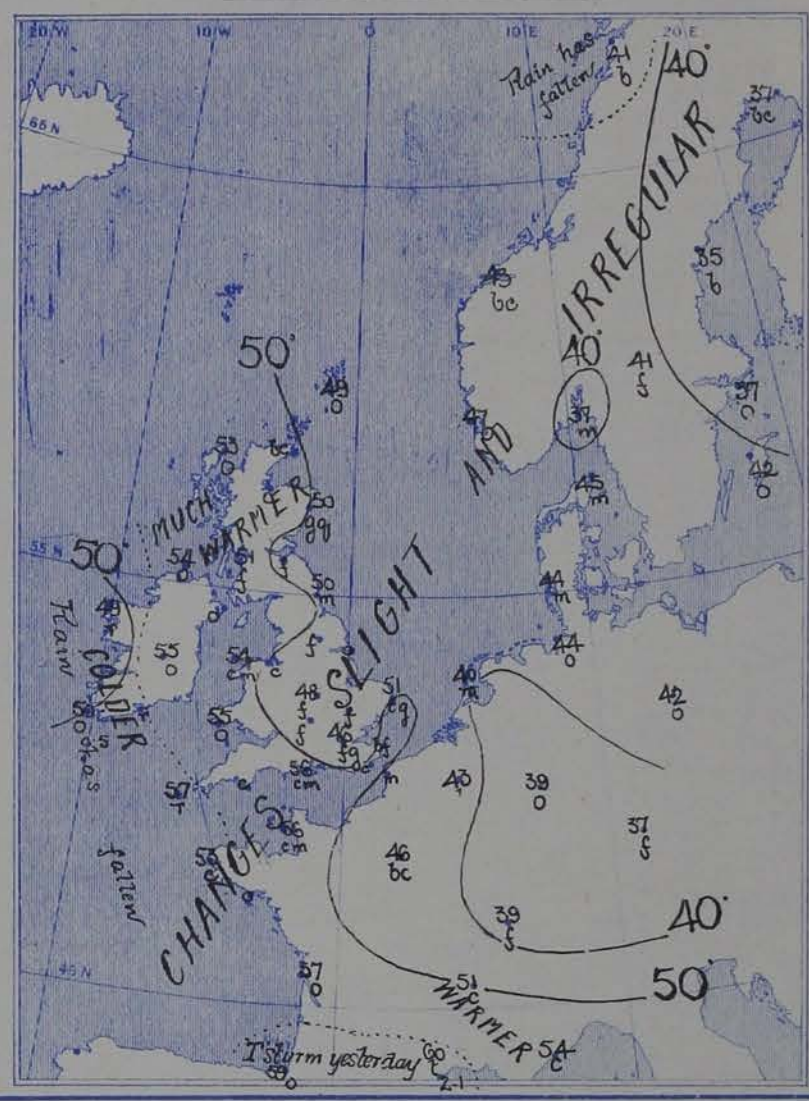
RAINFALL—A dotted line separates areas where rain has fallen from those without rain. The fall in past 24 hours when exceeding half an inch is shown thus—0·6.



VALUES FOR PRESSURE, TEMPERATURE, RAINFALL, AND BRIGHT SUNSHINE IN THE MONTH OF NOVEMBER.

STATIONS.	PRESSURE AT 8 A.M. Means, 1871—95.	TEMPERATURE OF AIR. 1871-95. Means of				Absolute Extremes.				RAINFALL. Means, 1866—95.	BRIGHT SUNSHINE. Means, 1881—95.	
		Dry Bulb 8 a.m.	Wet Bulb 8 a.m.	Daily Maximum.	Daily Minimum.	Maximum	Years.	Minimum.	Years.		Hours.	Per cent. of possible.
	(*Inches.*)	°	°	°	°	°		°		(*Inches.*)		
Sumburgh Head	29 · 693	42 · 3	40 · 6	45 · 8	38 · 2	55	1890	21	1875	4 · 14	—	—
Stornoway	29 · 703	42 · 0	41 · 0	46 · 4	37 · 1	56	1881	20	1880	4 · 80	42 · 1	18
Wick	29 · 728	41 · 6	40 · 1	46 · 2	36 · 4	58	1885, 89	15	1884	2 · 93	—	—
Nairn	29 · 743	40 · 0	38 · 4	45 · 7	35 · 5	61	1885, 94	18	1880	2 · 14	—	—
Aberdeen	29 · 772	40 · 7	38 · 9	46 · 3	36 · 7	62	1872, 89	15	1880, 84	3 · 16	54 · 7	23
Leith	29 · 798	41 · 8	40 · 1	48 · 2	37 · 1	64	1872	18	1885	2 · 05	—	—
Shields	29 · 824	42 · 4	40 · 8	47 · 6	38 · 0	62	1881, 94	20	1880	2 · 39	—	—
Spurn Head	29 · 854	43 · 5	42 · 2	47 · 1	40 · 4	61*	1894, 95	28*	1884	2 · 28	—	—
York	29 · 859	40 · 9	39 · 7	47 · 7	36 · 6	62	1894, 95	14	1871	2 · 21	39 · 7	16
Loughborough	29 · 888	40 · 7	39 · 5	48 · 4	36 · 7	63*	1881, 93, 94, 95	19*	1887, 93	2 · 21	—	—
Ardrossan	29 · 799	43 · 3	41 · 6	47 · 9	39 · 2	69	1872	21	1880	3 · 78	—	—
Malin Head	29 · 755	43 · 9	42 · 0	48 · 0	40 · 9	—	—	—	—	—	—	—
Belmullet	29 · 799	45 · 3	43 · 3	49 · 4	41 · 5	—	—	—	—	5 · 92	—	—
Donaghadee	29 · 819	43 · 4	42 · 3	48 · 5	39 · 4	60	1894	27	1878, 83	3 · 10	—	—
Holyhead	29 · 845	45 · 9	44 · 2	49 · 8	42 · 9	62	1881	29	1880	3 · 96	—	—
Liverpool	29 · 862	42 · 7	40 · 9	48 · 0	39 · 7	63	1872	22	1880	2 · 81	—	—
Parsonstown	29 · 852	41 · 8	40 · 3	49 · 1	37 · 0	62	1874	20	1890	2 · 86	63 · 1	25
Valencia	29 · 867	47 · 4	45 · 5	52 · 3	42 · 9	63	1881	27	1890	5 · 63	63 · 8	25
Roche's Point	29 · 869	46 · 2	44 · 6	51 · 2	42 · 0	61	1875	27	1890	4 · 79	—	—
Pembroke	29 · 871	47 · 1	45 · 4	50 · 3	43 · 6	58	1884, 95	28	1890	4 · 04	58 · 8	23
Scilly	29 · 898	50 · 1	48 · 1	52 · 6	46 · 6	60	1875, 81	29	1890	3 · 80	—	—
Prawle Point	29 · 917	46 · 4	44 · 9	51 · 2	42 · 1	61*	1881	19*	1890	3 · 26	—	—
Jersey	29 · 937	48 · 0	46 · 0	52 · 3	44 · 3	64	1874, 81	16	1890	4 · 19	70 · 9	26
Hurst Castle	29 · 912	45 · 3	44 · 3	50 · 7	41 · 0	66	1874	20	1890	3 · 11	—	—
Dover	29 · 904	44 · 7	43 · 3	49 · 7	40 · 9	61	1895	17	1890	3 · 30	—	—
LONDON	29 · 910	42 · 5	41 · 1	49 · 6	38 · 3	65	1894	19	1879	2 · 31	29 · 5†	11†
Oxford	29 · 908	41 · 4	40 · 2	48 · 5	37 · 7	68	1881	19	1871, 87	2 · 42	55 · 4	22
Cambridge	29 · 901	41 · 0	40 · 1	48 · 9	36 · 0	65	1895	15	1890	2 · 07	61 · 7	24
Yarmouth	29 · 879	43 · 4	42 · 2	47 · 7	39 · 2	60	1895	23	1890	2 · 92	—	—

* Extremes of temperature at these Stations are from observations made during the 15 years—1881-95.

† The Sunshine values are for Westminster.

GENERAL SITUATION AT 8 A.M.

PRESSURE

Highest 30.3 ins. at Wisby, and exceeding 30.2 ins. over the Baltic, Germany & S. of Sweden.
Lowest. Below 29.5 ins. in a depression off our extreme NW. coast.
Gradients have become somewhat steeper at our Nrn. stations.
Barometer falling except in the S. of Sweden – most in NW.

TEMPERATURE

Highest 59° at Biarritz, 57° at Scilly, 54° at Rocks Pt. and Malin Hd., 53° at Stornoway.
Lowest 35° to 37° on the coast of Sweden, 41° at Leith, 46° in London.
The maxima reported this morning had touched 60° along our S. and SW. coasts, and exceeded 55° at some of our SErn. stations.

WIND

S. by W.; and fresh, at our northern stations; SE. by S., and light over England, SW. by W. and light in the west of Ireland, SE. by S. and S. by W. over France.

WEATHER

Gloomy and showery at our Wrn. stations, less foggy than of late over England and Ireland. Heavy thunder and rain has occurred in the S. of France; at Perpignan the fall exceeded 2 ins.
Bright Sunshine yesterday amounted to 5.6 hrs. at Llandudno, and 7 hrs. at Scilly. In most places it was slight and in London there was none.

SEA

Rather rough in the N., slight to smooth except at Yarmouth, where it was moderate.

PROBABLE CHANGES IN SYSTEM NOW PREVALENT

Changeable weather is probable, with winds from a more S. by W. point than those recently experienced. Fog is still probable at times over our SErn. counties.

FORECASTS

For the 24 hours ending at NOON on 13TH NOV. 1898

DISTRICTS.		FORECASTS.
0	SCOTLAND NORTH	S. by W. and SW. by W. winds, strong; squally, showery.
1	SCOTLAND EAST	S. by W. and SW. by W. breezes, moderate; a few showers.
2	ENGLAND N.E.	
3	ENGLAND EAST	Variable airs; foggy or hazy, cold tonight
4	MIDLAND COUNTIES	
5	ENGLAND SOUTH	
6	SCOTLAND WEST	S. by W. and W. by W. breezes, fresh; rain at times.
7	ENGLAND N.W.	
8	ENGLAND S.W.	
9	IRELAND NORTH	
10	IRELAND SOUTH	
	WARNINGS	None issued.

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

YESTERDAY'S 2 P.M. REPORTS.

	BAR.	THER. Dry.	THER. Wet.	WIND. Direc.	F.	WEA.	SEA.
Skudesnaes ...	30·22	48	46	SSE	4	o	2
Sumburgh Head	29·94	51	50	SSW	2	bc	3
Stornoway	29·85	54	52	WSW	3	bc	3
Aberdeen	30·00	48	47	S	3	ogm	2
Shields	30·05	51	49	SSW	1	of	2
Ardrossan	29·94	45	44	N	2	bf	1
Malin Head ...	29·86	52	51	SSW	2	c	0
Belmullet	29·83	54	52	ESE	1	o	*
Holyhead	29·92	57	55	L	0	c	0

	BAR.	THER. Dry.	THER. Wet.	WIND. Direc.	F.	WEA.	SEA.
Valencia	29·77	60	56	E	2	cm	3
Scilly	29·82	58	54	ESE	5	c	2
Jersey	29·93	61	57	ESE	3	b	3
Hurst Castle ...	29·95	57	55	ENE	3	bcm	2
Dungeness ...	30·00	53	52	SE	2	c	1
North Foreland	30·03	50	50	E	2	f	2
London (Westminster)	30·00	57	54	E	1	fbf	*
Yarmouth ...	30·05	54	53	ESE	3	b	3
Rochefort ...	29·92	65	62	SSE	2	c	*

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

Weather in morning remaining foggy over central Europe and the greater part of England, but clearer in Ireland and Scotland than of late, as well as in the extreme N. of Europe. Considerable rain later at Bodö, in the W. of Ireland and at Lisbon, and no less than 2·09 ins. at Perpignan in a severe thunderstorm; fog continuing at the English stations.

Temperature rising slightly in the W. and N. of our Islands, changing irregularly elsewhere. Morning reading highest 68° at Algiers, 67° at Malta, 60° at Biarritz, 57° at Scilly; and above 50° on our S^m. coasts generally. Lowest 28° at Archangel, 32° at Moscow, and below 40° over E^rn. and N^rn. Europe generally; rising later to 60° or more at some stations in the S. and SW. of England to 64° at Paris and Nice, and to 66° at Perpignan. Maxima slightly exceeding 50° over Scotland and our N^rn. stations generally.

Wind light to fresh in force; anticyclonic over central Europe, principally E.^ly to S.^ly at the southern stations in western Europe and over England, SE.^ly in Ireland, S.^ly & SW.^ly in Scotland. The SW.^ly gale in the northwest of Norway died down. No decided change later.

Barometer highest 30·4 ins. to 30·1 ins. over central Europe, the Baltic, the N. of Scandinavia and the North Sea. Lowest below 29·6 ins. off the Portuguese coast, and below 29·7 ins. over the White Sea. Falling steadily over our Islands later, but beginning to rise over Portugal.

EXPLANATION OF THE 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.

N.B.—The morning observations are now made at 8 a.m. in the British Islands, Belgium, Germany, Sweden, and Norway, at 7 a.m. in France, and at 9 a.m. in Spain and Portugal. The evening observations are made at 8 p.m. at Oxford, but at 6 p.m. at the other stations in the British Islands and in France: at 8 p.m. in Sweden, Norway and Germany. The time at each Station is the Standard Time of its Country.

Subscriptions both for the Daily *and* Weekly Weather Reports *may be paid, in advance, to the* Meteorological Office.

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DAILY WEATHER REPORT

for 8 a.m. on Sunday 13th November, 1898

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

	STATIONS.	YESTERDAY EVENING. (See note at bottom of last page.)					THIS MORNING. (See note at bottom of last page.)									PAST 24 HOURS.				
		Barom.	Temp.	Wind.		Weather	Barometer.		Temperature.			Wind.		Weather.	Sea (0 to 9.)	Weather.	Hours of Bright Sunshine.	Temp.		Rainfall.
		At 32° and M.S.L.	Dry Bulb.	Direc.	Force (0 to 12.)		At 32° Fahr. and M. S. L.	Change since Yesterday.	Dry Bulb.	Wet Bulb.	Change since Yesterday.	Direc.	Force (0 to 12.)					Max.	Min.	
		Ins.	°				Ins.	Ins.	°	°	°							°	°	Ins.
Scandinavia.	Haparanda ...	30·23	27	2	0	b	30·26	+ ·25	30	30	− 7	SSE	2	f	*	b	*	37	27	−
	Hernösand ...	30·23	29	2	0	b	30·25	+ ·10	30	?	− 5	2	0	f	*	b	*	41	28	−
	Stockholm ...	30·21	39	2	0	0	30·21	− ·06	40	39	+ 3	2	0	0	*	0	*	41	36	−
	Wisby	30·22	43	S	4	0	30·19	− ·11	43	42	+ 1	SE	4	r	*	0	*	45	37	−
	Karlstad ...	30·20	36	NE	2	0	30·16	− ·10	38	37	− 3	NE	2	f	*	0,r	*	*	*	0·08
	Bodö	30·00	46	SE	1	b	29·92	− ·12	44	42	+ 3	E	2	b	1	b	*	46	39	−
	Christiansund ...	29·92	43	2	0	c	29·98	− ·04	43	42	0	2	0	c	3	c	*	46	39	−
	Skudesnaes ...	30·01	46	SSE	8	bc	30·01	− ·10	46	44	− 1	SSE	6	bc	4	0,bc	*	48	43	*
	Færder (Christiania Fjord)	30·20	41	N	4	f	30·13	− ·10	39	38	+ 2	ENE	4	0	2	f	*	41	37	−
	Skagen (The Scaw)	30·11	41	SE	2	0	30·09	− ·14	44	43	− 1	SE	2	0	0	0	*	46	39	−
	Fanö	29·98	45	E	3	m	29·95	− ·20	44	43	0	E	4	0	*	m	*	45	43	−
British Islands.	Sumburgh Head	29·61	50	SSE	6	0	29·60	+ ·21	42	41	− 7	N	3	0	5	0	*	50	42	0·28
	Stornoway ...	29·59	44	N	4	r	30·01	+ ·52	38	36	− 15	NW	4	0	4	0,p	0·0	50	34	0·30
	Wick	29·51	46	S	4	0	29·97	+ ·36	41	40	− 9	NW	3	bc	2	0	*	53	39	0·05
	Nairn	29·55	51	SW	1	r	30·01	+ ·42	43	40	− 12	WNW	2	bc	2	r	*	57	40	0·51
	Aberdeen ...	29·63	50	SSE	5	ogq	29·93	+ ·20	44	42	− 6	N	4	cq	4	ogq,r	0·0	51	43	0·65
	Leith	29·57	47	2	0	0	29·95	+ ·26	45	43	+ 4	NNE	1	0	*	0	*	52	37	0·43
	Shields	29·65	50	S	2	m	29·85	+ ·06	48	48	− 2	N	4	od	3	m,r	*	51	46	0·30
	Spurn Head ...	29·66	51	SE	3	b	29·79	− ·04	51	51	+ 2	W	1	f	3	om,bw	*	51	48	0·01
	York	29·56	51	S	1	om	29·85	+ ·05	49	49	+ 1	NW	1	orm	*	om,rm	0·0	52	47	0·38
	Loughborough ...	29·64	52	S	2	0	29·80	− ·03	42	41	− 6	W	1	bcm	*	c,ap,c,b	*	53	42	0·09
	Ardrossan ...	29·53	51	NE	3	r	29·95	+ ·30	44	44	− 7	NNW	2	0	1	0,r	*	51	43	0·34
	Malin Head ...	29·56	44	NNW	7	rq	30·04	+ ·58	46	43	− 8	N	5	b	4	0,rq	*	54	42	0·49
	Belmullet ...	29·74	41	N	10	rq	30·14	+ ·59	39	37	− 10	N	2	bc	*	ohp,rq	*	?50	36	0·83
	Donaghadee ...	29·55	54	S	2	0	29·97	+ ·38	47	45	− 7	N	7	bc	5	0	*	55	46	0·11
	Liverpool (Bidston)	29·61	51	SSE	1	rm	29·84	+ ·10	49	48	0	NW	1	f	?	0,rm	*	51	48	0·39
	Holyhead ...	29·56	51	SSW	3	rgm	29·88	+ ·19	49	48	− 5	NNE	8	oq	6	rgm	*	56	43	0·46
	Parsonstown ...	29·59	43	NW	1	c	30·10	+ ·55	37	35	− 18	2	0	b	*	c,r	0·9	55	36	0·38
	Valencia ...	29·76	56	NW	9	oqm	30·16	+ ·55	46	39	− 4	N	5	bc	6	cq,oqm	2·5	51	40	0·16
	Roche's Point ..	29·62	47	W	4	b	30·08	+ ·47	43	40	− 11	NNW	6	b	4	p,b	*	54	41	0·15
	Pembroke (St. Ann's Hd.)	29·59	50	W	4	0	29·81	+ ·10	47	47	− 8	NNE	6	rq	4	0	0·0	55	44	0·60
	Scilly	29·71	52	WNW	10	c	29·84	+ ·14	49	47	− 8	NNW	9	oq	5	0,cq	0·2	56	45	0·52
	Prawle Point ...	29·67	54	WSW	3	0	29·83	+ ·08	48	42	− 12	NNW	2	b	1	c,op	*	56	40	0·16
	Jersey (St. Aubin's)	29·68	58	SE	3	cpg	29·84	+ ·08	50	47	− 6	WNW	3	bc	3	Hr,cpg	*	62	48	0·26
	Hurst Castle ...	29·65	58	S	3	ol	29·84	+ ·05	47	45	− 9	NE	2	bcm	1	cm,ol,Hr	*	61	43	0·34
	Dungeness ...	29·70	55	SSE	4	bc	29·79	− ·05	49	49	− 1	WNW	3	c	2	c,bc	*	56	49	0·03
	North Foreland	29·75	54	SE	3	c	29·80	− ·04	50	50	0	W	3	0	2	c	*	54	49	0·15
	London (Brixton) ...	29·71	52	SE	2	om	29·83	− ·03	50	47	+ 4	WSW	2	0	*	of	0·0	54	45	−
	Oxford	29·63	54	SE	2	r	29·83	00	43	48	− 6	WNW	1	b	*	0,r	*	54	41	0·23
	Cambridge ...	29·68	62	SE	2	0	29·81	− ·04	48	48	0	NW	1	bw	*	0,r	1·3	57	47	0·04
	Yarmouth ...	29·71	53	SSE	4	c	29·77	− ·10	53	52	+ 2	W	2	cf	3	bc,c	*	53	49	−
Germany & Holland.	Cuxhaven ...	29·98	41	SE	4	0	29·91	− ·18	40	40	− 4	SE	3	c	*	0	*	45	37	−
	Berlin	30·06	41	SE	1	b	30·06	− ·10	40	39	− 2	SSE	2	c	*	b	*	45	37	−
	Wiesbaden ...	*	*	*	*	*	30·06	− ·07	41	41	+ 2	SE	1	0	*	*	*	41	?39	0·04
	Munich	30·10	39	E	4	f	30·15	− ·02	36	36	− 1	E	1	f	*	f	*	48	36	−
	The Helder ...	29·81	44	SE	1	m	29·78	− ·19	49	49	+ 9	SSE	1	r	0	m	*	?50	39	−
Belgium.	Brussels ...	*	*	*	*	*	29·86	− ·09	53	52	+ 10	SE	4	0	*	c	*	57	43	0·08
	Cape Gris Nez ...	?	55	SW	1	m	?	?	54	53	+ 9	NW	3	0	3	m	*	55	41	0·08
	Paris	29·77	58	SE	2	bc	29·86	− ·03	53	52	+ 7	S	3	0	*	bc	*	66	46	0·28
	Brest	29·74	53	NW	3	0	29·89	+ ·16	48	45	− 5	NNW	4	c	4	0	*	59	41	0·12
	Lorient	29·75	50	WNW	4	0	29·92	+ ·17	49	47	− 6	WNW	5	bc	4	0	*	64	48	−
France &	Rochefort ...	29·76	61	SSE	3	c	29·94	+ ·13	49	47	− 8	N	4	0	*	c	*	64	46	0·20
	Belfort	29·97	45	NE	2	m	30·00	− ·09	54	48	+ 15	S	2	c	*	m	*	52	39	0·04
	Lyons	29·98	53	NW	1	r	30·03	+ ·01	50	50	− 1	E	1	r	*	rt	*	58	50	0·43
	Nice	30·12	59	E	6	bc	30·10	− ·05	56	50	+ 2	E	2	c	5	bc	*	64	50	−
	Perpignan ...	29·91	63	S	2	c	29·97	+ ·01	52	52	− 8	2	0	r	*	c	*	70	50	0·12
	Biarritz ...	29·87	60	SW	3	0	29·94	+ ·16	56	54	− 3	NW	4	0	2	0	*	63	55	−
Penin-sula.	Corunna ...																*			
	Lisbon	29·99	59	N	4	0	30·04	+ ·29	60	53	+ 6	N	4	b	*	0	*	63	54	·04
	Azores (P. Delgada)	30·30	58	NNE	3	b	30·30	+ ·06	56	52	− 3	NW	2	b	2	b	*	68	56	−

For Explanation of Columns, see bottom of last page. † *Received too late for Insertion in Charts on next page.*

NOTE: *The Sunshine for London given in this Table is now recorded on the tower of the Wesleyan Training College, Westminster.*

Bright Sunshine yesterday Southport 0.0 hrs;

WEATHER CHARTS

FOR Sunday, 13th November, 1898

BAROMETER, WIND AND SEA.

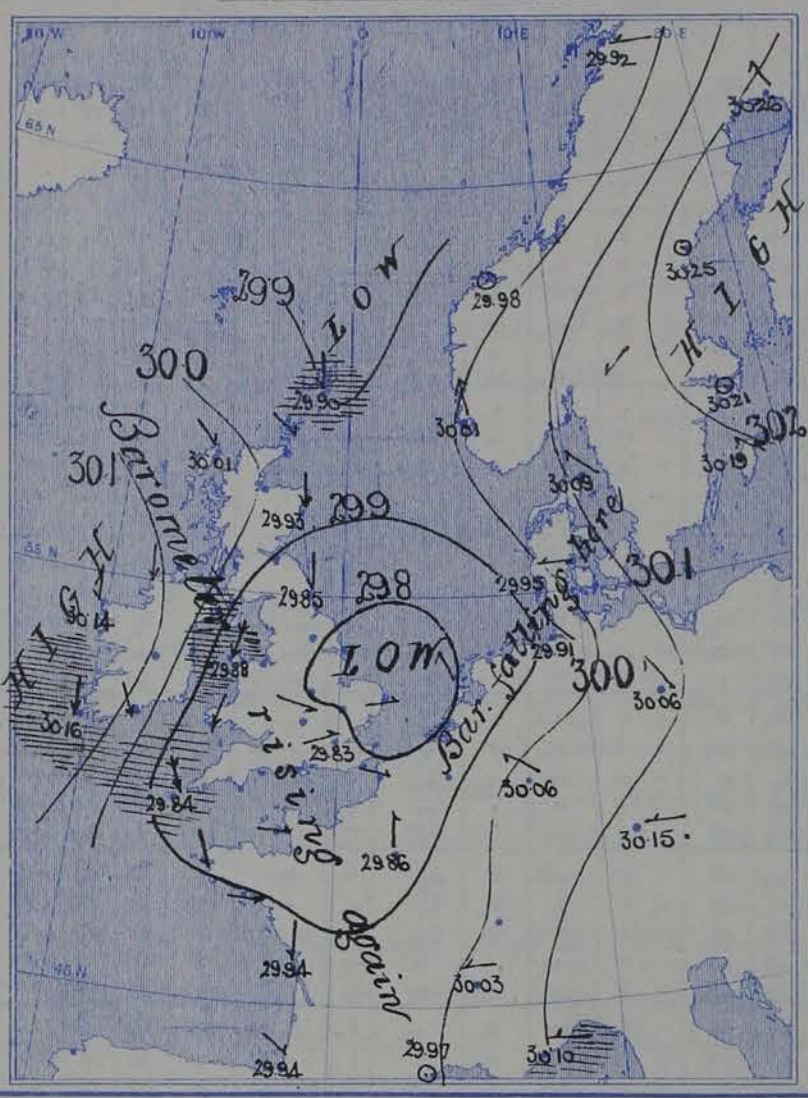
BAROMETER—Isobars are drawn for each tenth of an inch.

WIND—Arrows shew Directions and Force, flying with the wind.

Force above 10 ⟶⟶ ; *Force 5 to 7* ⟶ ; } Calm ⊙

Force 8 to 10 ⟶ ; *Force 1 to 4* ⟶ ; }

SEA—Rough ▤ ; *High* ▤


LOW
HIGH
Barometer falling
Barometer rising
Gales again
Gales again
Gales again

GENERAL SITUATION AT 8 A.M.

PRESSURE

Highest (1) 30·2 ins. and more over Scandinavia, Germany and the E^rn. shores of the North Sea; (2) 30·1 ins. and more to 30·0 ins. over Ireland.
Lowest 29·9 ins. and less between the Shetland Isles and Norway, and in a small depression over the E. of England and Holstein.
Gradients for N. winds were rather steep in the W. Barometer rising fast at the W^rn. stations, and very slightly even in the E.

TEMPERATURE

Highest 53° to 50° over the E. of England.
Lowest (1) 39° at Belmullet, 38° at Stornoway, 37° at Parsonstown; (2) 30° at Haparanda and Hernösand, 38° at Karlstadt.
It has been a little above 60° on some parts of our S^rn. coasts, 64° at Nice, and 66° at Paris during some part of the preceding 24 hours.

WIND

Cyclonic; it was SE. by E. to S. by E. on the eastern shores of the North Sea, but was N. by E. on our western coasts and was blowing a gale at Holyhead and a strong breeze at the Irish stations.
A severe gale from N. has been felt on the west coast of Ireland during the night.

WEATHER

Cloudy and unsettled over the E^rn. part of the country and E. of France.
Fine and improving in the W — where, however, temperature was falling.
Rain has fallen almost everywhere — most in the W. — the largest amount of all being 0.6 in. at Pembroke.

SEA

Rough on our W^rn. coasts and rather so over the Bay of Biscay.

PROBABLE CHANGES IN SYSTEM NOW PREVALENT

FORECASTS

For the 24 hours ending at NOON on 14TH NOVEMBER. 1898

DISTRICTS.	FORECASTS.	DISTRICTS.	FORECASTS.
0 SCOTLAND NORTH	NONE ISSUED.	6 SCOTLAND WEST	NONE ISSUED.
1 SCOTLAND EAST		7 ENGLAND N.W.	
2 ENGLAND N.E.		8 ENGLAND S.W.	
3 ENGLAND EAST		9 IRELAND NORTH	
4 MIDLAND COUNTIES		10 IRELAND SOUTH	
5 ENGLAND SOUTH		WARNINGS	AT 7.15 PM. YESTERDAY TO DISTRICTS 0, 1 AND 6 TO 10. HOIST NORTH CONE.

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

YESTERDAY'S 2 P.M. REPORTS.

	BAR.	THER. Dry.	THER. Wet.	WIND. Direc.	F.	WEA.	SEA.
Skudesnaes ...	30·05	47	45	SSE	6	o	4
Sumburgh Head	29·62	50	49	SSE	5	o	6
Stornoway	29·49	50	49	WNW	4	o	4
Aberdeen	29·65	49	48	SSE	6	ogq	6
Shields	29·69	50	49	S	3	rv	2
Ardrossan	29·56	51	51	E	3	o	3
Malin Head ...	29·50	48	47	WNW	1	o	1
Belmullet	29·56	46	44	WNW	3	ohp	*
Holyhead	29·59	54	53	S	3	rgw	2
Valencia	29·54	49	45	W	7	cq	6
Scilly	29·66	53	52	NW	6	o	2
Jersey	29·71	58	57	SSE	3	c	3
Hurst Castle ...	29·68	58	56	SSE	3	cw	2
Dungeness ...	29·75	56	53	SSE	3	c	2
North Foreland	29·76	52	51	SE	3	c	2
London (Westminster)	29·74	54	51	ESE	2	ow	*
Yarmouth ...	29·75	52	51	SSE	4	bc	4
Rochefort ...	29·80	63	60	SSE	3	c	*

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

Weather in morning still foggy in Central Europe and the eastern part of England, overcast and rainy at the western and northern stations, unsettled generally. A good deal of rain falling in most places, the greatest amount being 0·6 in. at Pembroke and 0·8 in. at Belmullet, and thunder occurring at Lyons.

Temperature rising generally, most in Scotland, but inclined to fall again at Valencia. Morning readings ranging from 60° at Perpignan and 57° in the Scilly Islands to 41° at Leith and 49° at Oxford, but rising to above 50° in the north, to 55° in Ireland, and to 60° or more at Paris and over Central France as a maximum.

Wind (1) still SE to E over the Channel and England, S at many of our western and northern stations, but SW in the west of Ireland; (2) light and anticyclonic over southeastern and Central Europe. Shifting abruptly to the N. and NW in Ireland later and blowing a hard gale in the far west.

Barometer highest 30·5 in. and more to 30·1 in. over eastern and central Europe. Lowest 29·5 in. and less off our extreme northwest coasts. A V-shaped depression coming over our western districts later and barometer rising in the west. Rain spreading eastwards rapidly.

EXPLANATION OF THE 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.

N.B.—The morning observations are now made at 8 a.m. in the British Islands, Belgium, Germany, Sweden, and Norway, at 7 a.m. in France, and at 9 a.m. in Spain and Portugal. The evening observations are made at 8 p.m. at Oxford, but at 6 p.m. at the other stations in the British Islands and in France; at 8 p.m. in Sweden, Norway and Germany. The time at each Station is the Standard Time of its Country.

Subscriptions both for the Daily *and* Weekly Weather Reports *may be paid, in advance, to the* Meteorological Office.

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" Weekly " " " £1 10 0 "

DAILY WEATHER REPORT

for 8 a.m. on Monday 14th November, 1898.

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

	STATIONS.	YESTERDAY EVENING. (See note at bottom of last page.)					THIS MORNING. (See note at bottom of last page.)								PAST 24 HOURS.				
		Barom.	Temp.	Wind.		Weather	Barometer.		Temperature.			Wind.		Weather.	Sea (0 to 9.)	Weather.	Hours of Bright Sunshine.	Temp.		Rainfall.
		At 32° and M.S.L.	Dry Bulb.	Direc.	Force (0 to 12.)		At 32° Fahr. and M. S. L.	Change since Yesterday.	Dry Bulb.	Wet Bulb.	Change since Yesterday.	Direc.	Force (0 to 12.)					Max.	Min.	
		Ins.	°				Ins.	Ins.	°	°	°							°	°	Ins.
Scandinavia	Haparanda ...	30·20	35	SSW	2	r	30·08	−·18	35	35	+ 5	WSW	2	o	≡	r	≡	36	12	0·08
	Hernösand ...	30·20	?	L	o	b	30·17	−·08	?	?	?	L	o	b	≡	b	≡	?	?	—
	Stockholm ...	30·28	41	L	o	o	30·27	+·06	42	41	+ 2	L	o	f	≡	o	≡	43	37	0·04
	Wisby	30·25	43	S	4	o	30·30	+·11	42	42	− 1	S	4	o	≡	o	≡	45	39	0·04
	Karlstad ...	30·25	41	NE	2	o	30·23	+·07	43	41	+ 5	S	2	o	≡	o	≡	≡	≡	—
	Bodö	29·93	47	E	2	o	29·89	−·03	40	37	− 4	E	2	c	1	o	≡	50	37	0·24
	Christiansund ...	30·04	45	ESE	1	o	29·86	−·12	44	42	+ 1	L	o	c	3	o	≡	46	43	—
	Skudesnaes ...	30·10	44	L	o	bc	30·10	+·09	47	46	+ 1	SSE	6	o	4	bc	≡	48	41	≡
	Færder (Christiania Fjord)	30·27	40	NNE	2	m	30·20	+·07	43	42	+ 4	SE	2	o	1	m	≡	43	39	—
	Skagen (The Scaw)	30·26	46	SE	2	m	30·17	+·08	45	45	+ 1	SE	2	m	o	m	≡	46	43	—
	Fanö	30·40	46	E	2	m	30·14	+·19	47	47	+ 3	L	o	f	≡	m	≡	48	44	—
British Islands	Sumburgh Head	29·99	40	NNE	1	o	29·75	−·15	46	44	+ 4	SSW	4	o	5	o	≡	48	40	0·13
	Stornoway ...	29·94	44	WSW	2	c	29·78	−·23	46	45	+ 8	W	4	o	4	c	4·2	48	35	0·15
	Wick	29·93	34	WNW	3	b	29·84	−·13	46	44	+ 5	SSW	3	o	2	b	≡	48	33	0·15
	Nairn	30·04	35	L	o	b	29·88	−·13	46	42	+ 3	W	1	o	1	b	≡	49	31	—
	Aberdeen ...	30·05	40	NW	2	b	29·97	+·04	42	40	− 2	SSW	3	org	3	b	0·3	47	37	0·08
	Leith	30·05	42	NNE	1	b	30·04	+·09	47	43	+ 2	WSW	2	o	≡	b	≡	53	34	—
	Shields	30·04	44	N	3	o	30·12	+·27	45	44	− 3	SW	3	c	3	o	≡	49	40	—
	Spurn Head ...	30·03	51	NNW	3	o	30·19	+·40	47	47	− 4	SSW	4	o	3	f.o	≡	52	45	—
	York	30·04	48	WNW	1	o	30·20	+·35	44	43	− 5	SSW	1	b	≡	o	0·0	51	42	0·02
	Loughborough ...	30·09	48	NNW	1	o	30·25	+·45	43	43	+ 1	SW	1	bemw	≡	em.gen.c	≡	49	42	—
	Ardrossan ...	30·01	44	L	o	b	30·05	+·10	47	47	+ 3	SSW	5	ow	4	b	≡	50	37	—
	Malin Head ...	30·06	42	SSW	2	b	29·93	−·11	45	45	− 1	S	6	or	4	b	≡	51	39	0·15
	Belmullet ...	30·08	47	N	3	b	30·00	−·14	50	50	+ 11	WNW	2	r	≡	b	≡	52	37	0·50
	Donaghadee ...	30·08	43	WSW	3	b	30·09	+·12	44	41	− 3	WSW	4	b	2	b	≡	51	35	—
	Liverpool (Bidston)	30·08	49	L	o	o	30·21	+·31	47	45	− 2	S	2	bc	2	am	≡	50	43	...
	Holyhead ...	30·08	44	NE	4	o	30·16	+·28	51	50	+ 2	WSW	3	cm	2	o	≡	52	45	0·01
	Parsonstown ...	30·14	38	L	o	b	30·12	+·02	46	44	+ 5	S	1	or	≡	b	6·7	47	32	0·01
	Valencia ...	30·17	41	SW	1	bm	30·12	−·04	51	50	+ 5	S	4	rmg	4	bm	7·0	51	36	0·12
	Roche's Point ..	30·17	45	N	4	b	30·19	+·11	51	49	+ 8	SW	4	bc	4	b	≡	51	36	—
	Pembroke (St. Ann's Hd.)	30·06	51	NNE	4	o	30·22	+·41	52	48	+ 5	WSW	4	bc	4	o	0·3	52	47	0·22
	Scilly	30·01	51	N	6	op	30·24	+·40	50	48	+ 1	SSE	1	bc	3	op	0·4	53	44	0·07
	Prawle Point ...	? 30·01	47	NNE	2	b	30·26	+·43	51	48	+ 8	SSE	2	b	1	b	≡	56	40	—
	Jersey (St. Aubin's)	30·04	52	SE	3	b	30·28	+·44	41	40	− 9	NE	1	bm	1	bc.bw	≡	58	39	—
	Hurst Castle ...	30·07	50	E	1	b	30·29	+·45	41	40	− 6	NE	2	f	1	b	≡	55	39	—
	Dungeness ...	30·09	54	WSW	2	b	30·29	+·50	38	38	− 11	NW	2	bm	1	b	≡	59	36	—
	North Foreland	30·08	48	W	2	b	30·30	+·50	44	44	− 6	W	1	f	1	b.f	≡	55	43	0·01
	London (Brixton) ...	30·11	47	WNW	1	c	30·31	+·46	36	36	− 14	L	o	fg	≡	bc.b	0·7	56	36	—
	Oxford	30·14	47	L	o	b	30·30	+·47	34	34	− 9	L	o	f	≡	b	≡	52	34	—
	Cambridge ...	30·09	51	NW	1	om	30·29	+·45	46	46	− 2	SW	1	o	≡	om	0·1	52	45	—
	Yarmouth ...	29·91	50	W	2	c	30·24	+·41	48	47	− 5	WSW	3	bc	3	cf	≡	54	46	—
Germany & Holland	Cuxhaven ...	29·97	50	S	1	o	30·47	+·26	50	50	+ 10	SW	1	m	≡	o	≡	52	40	0·04
	Berlin	30·18	46	S	1	b	30·28	+·22	42	41	+ 2	SSW	2	c	≡	b	≡	50	41	—
	Wiesbaden ...	≡	≡	≡	≡	≡	30·32	+·26	42	41	+ 1	NE	1	o	≡	≡	≡	52	39	—
	Munich	30·22	40	E	4	f	30·31	+·16	38	38	+ 2	E	3	f	≡	f	≡	43	36	0·04
	The Helder ...	30·02	53	SW	1	o	30·21	+·43	53	52	+ 4	WSW	1	o	1	o	≡	54	48	—
France & Belgium	Brussels ...	≡	≡	≡	≡	≡	30·31	+·45	44	44	− 9	ESE	1	b	≡	o	≡	56	39	—
	Cape Gris Nez ...	?	55	WSW	1	bc	?	?	49	47	− 5	E	1	m	o	bc	≡	55	46	—
	Paris	30·04	50	NE	2	bc	30·27	+·41	41	41	− 12	E	1	f	≡	bc	≡	57	41	0·16
	Brest	29·91	44	NW	3	c	30·25	+·36	46	45	− 2	E	1	b	1	c	≡	52	39	0·32
	Lorient	30·02	50	WSW	3	c	30·27	+·35	45	43	− 4	E	3	b	2	c	≡	52	43	—
	Rochefort	30·07	50	E	7	o	30·14	+·20	46	45	− 3	ENE	4	o	≡	o	≡	57	43	—
	Belfort	30·14	51	WNW	3	bc	30·26	+·26	42	42	− 12	ENE	4	f	≡	bc	≡	63	42	—
	Lyons	30·10	50	NNW	1	o	30·28	+·25	45	45	− 5	S	1	f	≡	o	≡	51	44	0·75
	Nice	30·10	61	E	8	o	30·17	+·07	60	52	+ 4	E	4	o	5	o	≡	63	55	—
	Perpignan ...	29·99	55	L	o	r	30·08	+·11	56	55	+ 4	NNE	1	b	≡	r	≡	60	52	0·39
	Biarritz ...	30·02	50	W	3	r	30·04	+·10	49	45	− 7	S	3	o	5	r	≡	56	45	1·38
Peninsula	Corunna ...																≡			
	Lisbon	30·04	53	N	5	b	30·01	−·03	50	46	− 10	N	5	b	≡	b	≡	60	48	—
	Azores (P. Delgada)	30·30	60	W	1	b	30·28	−·02	54	56	+ 3	NW	1	bc	2	b	≡	65	57	—

For Explanation of Columns, see bottom of last page. † *Received too late for Insertion in Charts on next page.*

NOTE: *The Sunshine for London given in this Table is now recorded on the tower of the Wesleyan Training College, Westminster*

Bright Sunshine yesterday Southport 6·5 hrs;

WEATHER CHARTS

FOR Monday, 14th November, 1898

BAROMETER, WIND AND SEA.

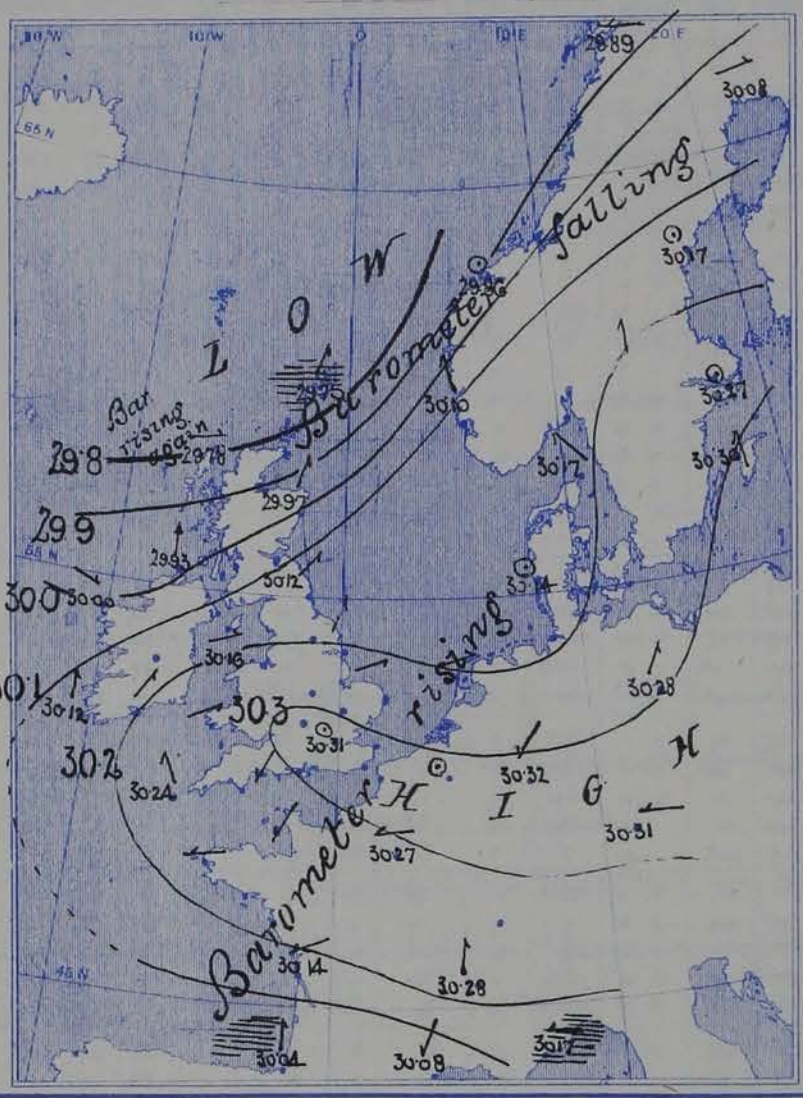
BAROMETER—Isobars are drawn for each tenth of an inch.

WIND—Arrows shew Directions and Force, flying with the wind.

Force above 10 ⟶⟶ ; *Force 5 to 7* ⟶ ; } Calm ⊙

Force 8 to 10 ⟶ ; *Force 1 to 4* ⟶ ; }

SEA—*Rough* ≡ ; *High* ▬



TEMPERATURE & WEATHER.

TEMPERATURE—Isotherms are drawn for each 10°.

WEATHER—Shown by Letters of the Beaufort Scale.

RAINFALL—{ *A dotted line separates areas where rain has fallen from those without rain. The fall in past 24 hours when exceeding half an inch is shown thus*—0·6.

VALUES FOR PRESSURE, TEMPERATURE, RAINFALL, AND BRIGHT SUNSHINE IN THE MONTH OF NOVEMBER.

STATIONS.	PRESSURE AT 8 A.M. Means, 1871—95.	TEMPERATURE OF AIR. 1871-95. Means of				Absolute Extremes.				RAINFALL. Means, 1866—95.	BRIGHT SUNSHINE. Means, 1881—95.	
		Dry Bulb 8 a.m.	Wet Bulb 8 a.m.	Daily Maximum.	Daily Minimum.	Maximum	Years.	Minimum.	Years.		Hours.	Per cent. of possible.
	(*Inches.*)	°	°	°	°	°		°		(*Inches.*)		
Sumburgh Head	29 · 693	42 · 3	40 · 6	45 · 8	38 · 2	55	1890	21	1875	4 · 14	—	—
Stornoway	29 · 703	42 · 0	41 · 0	46 · 4	37 · 1	56	1881	20	1880	4 · 80	42 · 1	18
Wick	29 · 728	41 · 6	40 · 1	46 · 2	36 · 4	58	1885, 89	15	1884	2 · 93	—	—
Nairn	29 · 743	40 · 0	38 · 4	45 · 7	35 · 5	61	1885, 94	18	1880	2 · 14	—	—
Aberdeen	29 · 772	40 · 7	38 · 9	46 · 3	36 · 7	62	1872, 89	15	1880, 84	3 · 16	54 · 7	23
Leith	29 · 798	41 · 8	40 · 1	48 · 2	37 · 1	64	1872	18	1885	2 · 05	—	—
Shields	29 · 824	42 · 4	40 · 8	47 · 6	38 · 0	62	1881, 94	20	1880	2 · 39	—	—
Spurn Head	29 · 854	43 · 5	42 · 2	47 · 1	40 · 4	61*	1894, 95	28*	1884	2 · 28	—	—
York	29 · 859	40 · 9	39 · 7	47 · 7	36 · 6	62	1894, 95	14	1871	2 · 21	39 · 7	16
Loughborough	29 · 888	40 · 7	39 · 5	48 · 4	36 · 7	63*	1881, 93, 94, 95	19*	1887, 93	2 · 21	—	—
Ardrossan	29 · 799	43 · 3	41 · 6	47 · 9	39 · 2	69	1872	21	1880	3 · 78	—	—
Malin Head	29 · 755	43 · 9	42 · 0	48 · 0	40 · 9	—	—	—	—	—	—	—
Belmullet	29 · 799	45 · 3	43 · 3	49 · 4	41 · 5	—	—	—	—	5 · 92	—	—
Donaghadee	29 · 819	43 · 4	42 · 3	48 · 5	39 · 4	60	1894	27	1878, 83	3 · 10	—	—
Holyhead	29 · 845	45 · 9	44 · 2	49 · 8	42 · 9	62	1881	29	1880	3 · 96	—	—
Liverpool	29 · 862	42 · 7	40 · 9	48 · 0	39 · 7	63	1872	22	1880	2 · 81	—	—
Parsonstown	29 · 852	41 · 8	40 · 3	49 · 1	37 · 0	62	1874	20	1890	2 · 86	63 · 1	25
Valencia	29 · 867	47 · 4	45 · 5	52 · 3	42 · 9	63	1881	27	1890	5 · 63	63 · 8	25
Roche's Point	29 · 869	46 · 2	44 · 6	51 · 2	42 · 0	61	1875	27	1890	4 · 79	—	—
Pembroke	29 · 871	47 · 1	45 · 4	50 · 3	43 · 6	58	1884, 95	28	1890	4 · 04	58 · 8	23
Scilly	29 · 898	50 · 1	48 · 1	52 · 6	46 · 6	60	1875, 81	29	1890	3 · 80	—	—
Prawle Point	29 · 917	46 · 4	44 · 9	51 · 2	42 · 1	61*	1881	19*	1890	3 · 26	—	—
Jersey	29 · 937	48 · 0	46 · 0	52 · 3	44 · 3	64	1874, 81	16	1890	4 · 19	70 · 9	26
Hurst Castle	29 · 912	45 · 3	44 · 3	50 · 7	41 · 0	66	1874	20	1890	3 · 11	—	—
Dover	29 · 904	44 · 7	43 · 3	49 · 7	40 · 9	61	1895	17	1890	3 · 30	—	—
LONDON	29 · 910	42 · 5	41 · 1	49 · 6	38 · 3	65	1894	19	1879	2 · 31	29 · 5†	11†
Oxford	29 · 908	41 · 4	40 · 2	48 · 5	37 · 7	68	1881	19	1871, 87	2 · 42	55 · 4	22
Cambridge	29 · 901	41 · 0	40 · 1	48 · 9	36 · 0	65	1895	15	1890	2 · 07	61 · 7	24
Yarmouth	29 · 879	43 · 4	42 · 2	47 · 7	39 · 2	60	1895	23	1890	2 · 92	—	—

* Extremes of temperature at these Stations are from observations made during the 15 years—1881-95. † The Sunshine values are for Westminster.

GENERAL SITUATION AT 8 A.M.

PRESSURE

Highest 30.2 ins. and more to 30.1 ins. over Germany, the S. of our Islands and the greater part of the North Sea.
Lowest 29.8 ins. and less over the N. of our Islands and off the W. of Norway.
Gradients rather steep in the N. slight in the S.
Barometer rising in the SE. and E. falling in the NW. and W. but was very unsteady.

TEMPERATURE

Highest 51° to 50° at our W^m. stations and 50° to 53° in Holland.
Lowest 41° at Paris, 42° at the N. German stations, 36° in London, 34° at Oxford.
It exceeded 50° at our our stations and in Ireland yesterday, and touched 59° at Dungeness, and 56° in London, 57° at Paris, and 63° at Nice.

WIND

Moderate from the S^wd. over Ireland and Scotland.
Light and calms over England. Light E^ly. over France.

WEATHER

Fine in most places, but very foggy over England.
Heavy rain has fallen in the S. of France, and some falls were reported at our extreme W^m. stations, but at those in England there was none.
Bright Sunshine reported was 7 to 6 hrs. at our W^m. stations; in York and London there was hardly any.

SEA

Moderate in the W. and N., smooth elsewhere.

PROBABLE CHANGES IN SYSTEM NOW PREVALENT

No great change is indicated at present.

FORECASTS

For the 24 hours ending at NOON on 15TH NOVEMBER 1898.

DISTRICTS.		FORECASTS.
0	SCOTLAND NORTH	SW^ly. and W^ly. winds, freshening; dull some rain.
1	SCOTLAND EAST	SW^ly. winds, moderate; some rain at first, then fair.
2	ENGLAND N.E.	SW^ly. winds, light, fair generally, but local fogs.
3	ENGLAND EAST	
4	MIDLAND COUNTIES	Light variable airs, foggy or misty in most places.
5	ENGLAND SOUTH	
6	SCOTLAND WEST	Same as No. 1.
7	ENGLAND N.W.	Same as Nos. 2 and 3.
8	ENGLAND S.W.	S^ly. and SE^ly. winds, light, fair generally, but local fogs.
9	IRELAND NORTH	S^ly. to SW^ly. winds, moderate or fresh, some rain at first, then fair.
10	IRELAND SOUTH	

WARNINGS

At 11.50 am today to districts 0 1 and 6 to 18. Lower Cone.

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

YESTERDAY'S 2 P.M. REPORTS.

	BAR.	THER. Dry.	THER. Wet.	WIND. Direc.	F.	WEA.	SEA.
Skudesnaes ...	30·10	48	46	ENE	2	b	3
Sumburgh Head							
Stornoway ...	30·01	48	43	WSW	3	cv	3
Aberdeen							
Shields							
Ardrossan							
Malin Head ...	30·08	46	41	N	2	b	2
Belmullet	30·13	49	43	N	3	b	*
Holyhead							

	BAR.	THER. Dry.	THER. Wet.	WIND. Direc.	F.	WEA.	SEA.
Valencia							
Scilly							
Jersey	29·95	57	51	SW	3	6c	3
Hurst Castle ...							
Dungeness ...	29·96	58	53	WSW	3	b	2
North Foreland	29·96	55	52	W	2	b	1
London (Westminster)							*
Yarmouth ...							
Rochefort ...	30·02	54	50	E	1	o	*

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

CONTINENTAL INFORMATION NOT RECEIVED

SUMMARY OF CHANGES IN THE WEATHER OVER EUROPE FROM THE 6TH TO 12TH NOV. 1898.

The Summary will be included in tomorrow's issue

EXPLANATION OF THE 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.

N.B.—The morning observations are now made at 8 a.m. in the British Islands, Belgium, Germany, Sweden, and Norway, at 7 a.m. in France, and at 9 a.m. in Spain and Portugal. The evening observations are made at 8 p.m. at Oxford, but at 6 p.m. at the other stations in the British Islands and in France ; at 8 p.m. in Sweden, Norway and Germany. The time at each Station is the Standard Time of its Country.

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TERMS : For Daily Weather Report, forwarded by Book Post, £1 0 0 per annum.
,, Weekly ,, ,, ,, £1 10 0 ,,

DAILY WEATHER REPORT

for 8 a.m. on Tuesday, 15th November, 1898.

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

	STATIONS.	YESTERDAY EVENING. (See note at bottom of last page.)					THIS MORNING. (See note at bottom of last page.)									PAST 24 HOURS.				
		Barom.	Temp.	Wind.			Barometer.		Temperature.			Wind.						Temp.		
		At 32° and M.S.L.	Dry Bulb.	Direc.	Force (0 to 12.)	Weather	At 32° Fahr. and M. S. L.	Change since Yesterday.	Dry Bulb.	Wet Bulb.	Change since Yesterday.	Direc.	Force (0 to 12.)	Weather.	Sea (0 to 9.)	Weather.	Hours of Bright Sunshine.	Max.	Min.	Rainfall.
		Ins.	°				Ins.	Ins.	°	°	°							°	°	Ins.
Scandinavia	Haparanda ...	29.92	34	SW	4	c	29.85	−.23	35	34	0	WSW	2	c	8	0	#	36	30	0.04
	Hernösand ...	29.99	41	SW	2	c	30.01	−.16	36	35	+ 1	Z	0	c	#	0	#	41	36	—
	Stockholm ...	30.18	43	Z	0	c	30.07	−.20	44	43	+ 2	SW	2	f	#	0	#	45	39	—
	Wisby	30.21	43	S	4	c	30.13	−.17	44	43	+ 2	SW	2	f	#	0	#	46	37	—
	Karlstad ...	30.12	43	S	1	c	30.06	−.17	46	45	+ 3	SW	2	f	#	0	#	#	#	—
	Bodö	29.65	46	SW	6	c	29.71	−.18	42	39	+ 2	W	7	c	4	0	#	48	37	0.20
	Christiansund ...	29.86	49	WSW	3	c	30.05	+.14	44	42	0	WSW	5	r	4	0	#	49	43	0.12
	Skudesnaes ...	30.08	48	N	2	c	30.14	+.04	45	?	− 2	SSW	4	c	2	0	#	48	41	#
	Færder (Christiania Fjord)	30.10	45	SSW	2	f	30.06	−.14	43	42	0	WSW	1	c	3	f	#	45	43	—
	Skagen (The Scaw)	30.15	46	W	1	f	30.10	−.07	46	46	+ 1	WSW	1	m	c	f	#	48	45	—
	Fanö	30.24	48	W	1	c	30.22	+.08	49	49	+ 2	WSW	2	c	#	c	#	50	47	—
British Islands.	Sumburgh Head	29.91	45	W	2	b	30.07	+.32	44	42	− 2	Z	0	c	4	c, b	#	50	42	0.11
	Stornoway ...	29.98	43	WNW	3	r	30.10	+.32	42	41	− 4	NW	3	c	3	bc, r	1.5	48	37	0.10
	Wick	29.97	45	ENE	1	b	?30.09	+.25	41	39	− 5	N	2	bc	1	b	#	48	39	0.01
	Nairn	30.04	46	Z	0	r	30.18	+.30	38	37	− 5	W	1	b	1	r	#	50	35	0.04
	Aberdeen ...	30.05	43	WNW	1	bc	30.19	+.22	37	36	− 5	W	1	bmw	1	cg, bc	0.0	46	36	0.07
	Leith	30.06	46	WSW	3	bc	30.19	+.15	44	43	− 3	WSW	1	m	#	bc	#	50	42	—
	Shields	30.15	51	SW	2	c	30.20	+.08	48	48	+ 3	WSW	2	cm	2	cm, r, c, r	#	53	44	0.13
	Spurn Head ...	30.23	49	SW	4	bm	30.24	+.05	49	48	+ 2	WSW	2	c	2	c, bm, p	#	50	46	0.01
	York	30.21	48	S	1	c	30.23	+.03	47	46	+ 3	S	1	f	#	c, r	0.0	53	44	0.13
	Loughborough ...	30.28	47	SW	2	c	30.27	+.02	49	47	+ 6	SW	2	cw	#	bc, c, up	#	54	43	0.02
	Ardrossan ...	30.10	49	SSW	3	c	30.22	+.17	45	45	− 2	Z	0	c fw	0	r, c	#	46	42	0.13
	Malin Head ...	30.09	49	SW	3	b	30.19	+.26	44	44	− 1	SSW	2	bm	4	c, b	#	49	43	0.01
	Belmullet ...	30.14	49	WNW	1	c	30.27	+.27	48	47	− 2	WSW	1	c	#	c	#	52	40	0.02
	Donaghadee ...	30.12	48	SSW	3	c	30.31	+.12	46	46	+ 2	W	3	c	2	c	#	48	44	0.27
	Liverpool (Bidston)	30.23	50	SSW	2	p	30.22	+.01	50	49	+ 3	ENE	1	c	1	m, p	#	53	46	0.05
	Holyhead ...	30.19	51	SW	5	rgm	30.21	+.05	52	51	+ 1	NNW	2	df	1	c, rg m	#	54	48	0.19
	Parsonstown ...	30.16	50	S	1	c	30.25	+.13	42	42	− 3	Z	0	c	#	cr	0.0	50	42	0.36
	Valencia ...	30.15	50	Z	0	c	30.26	+.14	53	52	+ 2	NE	1	c	4	rm, c	0.0	54	41	0.51
	Roche's Point ...	30.21	52	SW	5	r	30.25	+.06	49	47	− 2	NW	3	c	4	r	#	53	48	0.05
	Pembroke (St. Ann's Hd.)	30.26	50	W	4	bc	30.25	+.03	54	53	+ 2	WSW	5	rm	5	bc	1.2	54	50	0.10
	Scilly	30.27	51	SSW	2	c	30.30	+.06	54	53	+ 4	SSW	3	c	3	c	5.5	58	48	—
	Prawle Point ...	30.32	50	SSW	2	bc	30.33	+.07	52	51	+ 1	SW	2	c	1	bc	#	57	47	—
	Jersey (St. Aubin's)	30.31	53	SSE	1	bm	30.34	+.06	43	43	+ 2	WNW	2	bcm	2	bm, bw	#	62	40	0.01
	Hurst Castle ...	30.31	52	SSE	1	cw	30.33	+.04	46	45	+ 5	NNE	1	cw	1	cw	#	58	41	—
	Dungeness ...	30.32	55	Z	0	bc	30.33	+.04	47	47	+ 9	NNW	1	c	1	bc	#	60	38	—
	North Foreland	30.33	50	SW	1	c	30.32	+.02	50	49	+ 6	WSW	2	c	1	b, c	#	53	43	0.03
	London (Brixton) ...	30.33	44	WNW	1	bm	30.33	+.02	47	45	+ 11	SW	1	c	#	cf, c	0.5	51	36	—
	Oxford	30.34	47	W	1	b	30.32	+.02	47	46	+ 13	SSW	2	r	#	b, c	#	54	34	—
	Cambridge ...	30.31	45	WSW	1	b	30.31	+.02	47	46	+ 1	SW	1	c	#	b	3.9	50	41	—
	Yarmouth ...	30.26	49	SW	2	b	30.28	+.04	47	46	− 1	SW	2	cw	3	b	#	52	43	0.01
Germany & Holland.	Cuxhaven ...	30.25	48	WSW	2	m	30.26	+.09	45	44	− 5	WSW	1	f	#	m	#	52	45	—
	Berlin	30.29	50	SW	1	c	30.29	+.01	48	48	+ 6	W	2	f	#	c	#	50	42	—
	Wiesbaden ...	#	#	#	#	#	30.10	+.08	41	40	− 1	Z	0	c	#	#	#	45	41	—
	Munich	30.39	38	Z	0	f	30.39	+.08	36	36	− 2	E	1	c	#	f	#	39	36	—
	The Helder ...	30.28	51	WSW	1	bc	30.27	+.06	51	48	− 2	WSW	1	bc	1	bc	#	54	50	—
Belgium.	Brussels ...	#	#	#	#	#	30.38	+.07	39	39	− 5	Z	0	f	#	m	#	57	37	—
	Cape Gris Nez ...	?	51	SW	1	m	?	?	49	47	0	SSW	2	m	2	m	#	55	45	—
	Paris	30.34	49	N	2	f	30.38	+.11	42	42	+ 1	NE	1	f	#	f	#	50	41	—
	Brest	30.32	47	NE	1	fbc	30.37	+.12	48	48	+ 2	ENE	1	c	2	bc	#	57	43	—
	Lorient	30.30	51	NE	2	b	30.36	+.09	49	48	+ 4	E	1	m	3	b	#	59	45	—
France &	Rochefort ...	30.19	54	E	4	b	30.28	+.14	48	46	+ 2	ENE	3	m	#	b	#	64	43	—
	Belfort	30.34	40	NE	2	f	30.36	+.10	37	37	− 5	NE	4	f	#	f	#	51	37	—
	Lyons	30.28	51	NNE	1	b	30.32	+.04	43	41	− 2	N	1	f	#	fb	#	58	42	—
	Nice	30.19	57	Z	0	bc	30.20	+.03	52	46	− 8	E	2	b	4	bc	#	66	50	—
	Perpignan ...	30.13	62	E	3	c	30.21	+.13	56	52	0	NW	1	c	#	c	#	63	53	1.10
	Biarritz ...	30.16	52	ENE	2	c	30.20	+.16	52	50	+ 3	SE	2	c	3	c	#	54	48	—
Peninsula.	Corunna ...																#			
	Lisbon	30.05	55	N	5	b	30.10	+.09	55	50	+ 5	NE	4	b	#	b	#	57	52	—
	Azores (P. Delgada)	30.28	63	SSE	2	c	30.24	−.04	64	61	+ 5	S	4	c	4	c	#	68	54	—

For Explanation of Columns, see bottom of last page. † *Received too late for Insertion in Charts on next page.*

NOTE: *The Sunshine for London given in this Table is now recorded on the tower of the Wesleyan Training College, Westminster.*

Bright Sunshine yesterday Southport 0.4 hrs;

WEATHER CHARTS

FOR Tuesday, 15th November, 1898

BAROMETER, WIND AND SEA.

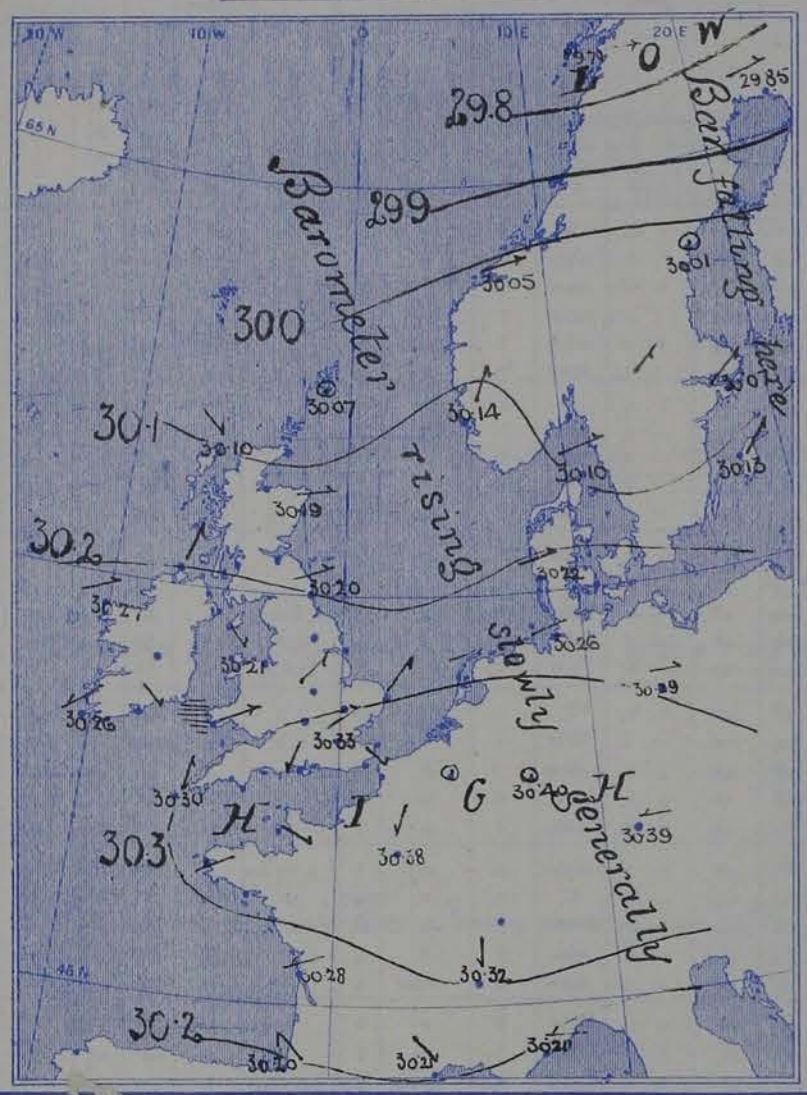
BAROMETER—Isobars are drawn for each tenth of an inch.

WIND—Arrows shew Directions and Force, flying with the wind.

Force above 10 ⟫⟶ ; *Force 5 to 7* ⟶ ; } Calm ⊙

Force 8 to 10 ⟶ ; *Force 1 to 4* ⟶ ; }

SEA—Rough ▒ ; *High* ▓

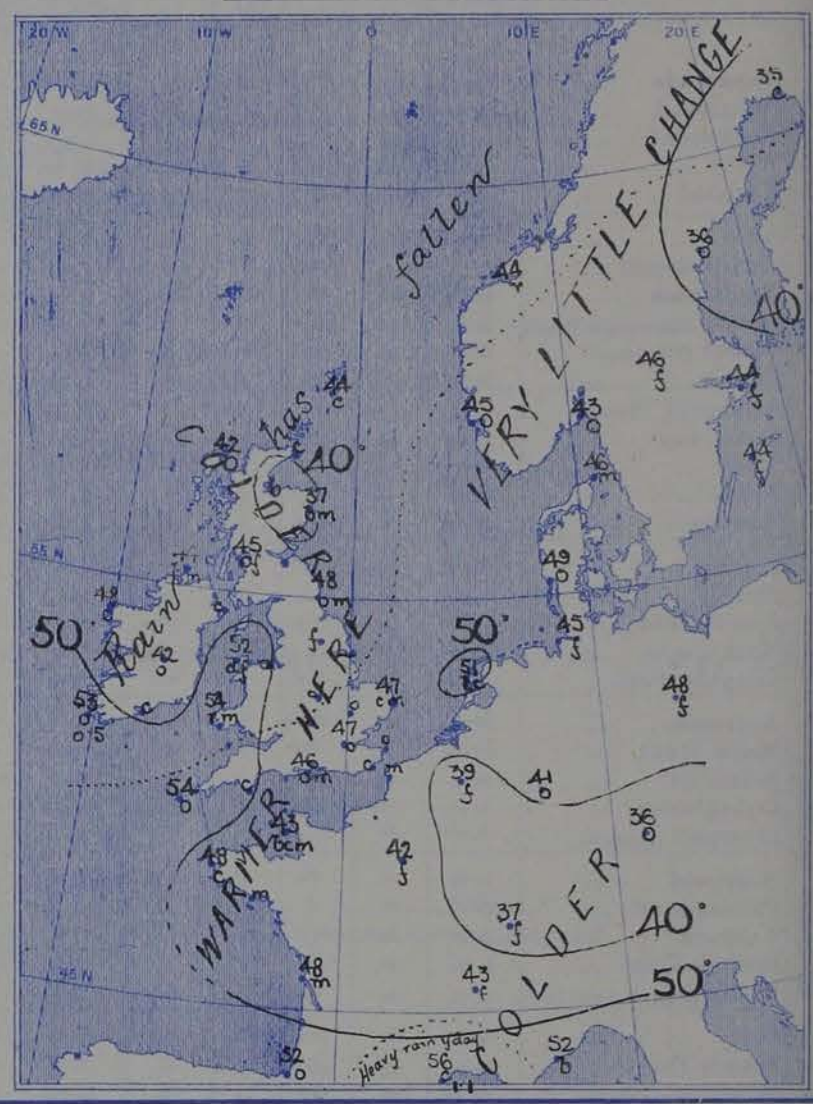


TEMPERATURE & WEATHER.

TEMPERATURE—Isotherms are drawn for each 10°.

WEATHER—Shown by Letters of the Beaufort Scale.

RAINFALL—A dotted line separates areas where rain has fallen from those without rain. The fall in past 24 hours when exceeding half an inch is shown thus—0·6.



VALUES FOR PRESSURE, TEMPERATURE, RAINFALL, AND BRIGHT SUNSHINE *IN THE MONTH OF NOVEMBER.*

STATIONS.	PRESSURE AT 8 A.M. Means, 1871—95.	TEMPERATURE OF AIR. 1871-95. Means of				Absolute Extremes.				RAINFALL. Means, 1866—95.	BRIGHT SUNSHINE. Means, 1881—95.	
		Dry Bulb 8 a.m.	Wet Bulb 8 a.m.	Daily Maximum.	Daily Minimum.	Maximum	Years.	Minimum.	Years.		Hours.	Per cent. of possible.
	(*Inches.*)	°	°	°	°	°		°		(*Inches.*)		
Sumburgh Head	29 · 693	42 · 3	40 · 6	45 · 8	38 · 2	55	1890	21	1875	4 · 14	—	—
Stornoway	29 · 703	42 · 0	41 · 0	46 · 4	37 · 1	56	1881	20	1880	4 · 80	42 · 1	18
Wick	29 · 728	41 · 6	40 · 1	46 · 2	36 · 4	58	1885, 89	15	1884	2 · 93	—	—
Nairn	29 · 743	40 · 0	38 · 4	45 · 7	35 · 5	61	1885, 94	18	1880	2 · 14	—	—
Aberdeen	29 · 772	40 · 7	38 · 9	46 · 3	36 · 7	62	1872, 89	15	1880, 84	3 · 16	54 · 7	23
Leith	29 · 798	41 · 8	40 · 1	48 · 2	37 · 1	64	1872	18	1885	2 · 05	—	—
Shields	29 · 824	42 · 4	40 · 8	47 · 6	38 · 0	62	1881, 94	20	1880	2 · 39	—	—
Spurn Head	29 · 854	43 · 5	42 · 2	47 · 1	40 · 4	61*	1894, 95	28*	1884	2 · 28	—	—
York	29 · 859	40 · 9	39 · 7	47 · 7	36 · 6	62	1894, 95	14	1871	2 · 21	39 · 7	16
Loughborough	29 · 888	40 · 7	39 · 5	48 · 4	36 · 7	63*	1881, 93, 94, 95	19*	1887, 93	2 · 21	—	—
Ardrossan	29 · 799	43 · 3	41 · 6	47 · 9	39 · 2	69	1872	21	1880	3 · 78	—	—
Malin Head	29 · 755	43 · 9	42 · 0	48 · 0	40 · 9	—	—	—	—	—	—	—
Belmullet	29 · 799	45 · 3	43 · 3	49 · 4	41 · 5	—	—	—	—	5 · 92	—	—
Donaghadee	29 · 819	43 · 4	42 · 3	48 · 5	39 · 4	60	1894	27	1878, 83	3 · 10	—	—
Holyhead	29 · 845	45 · 9	44 · 2	49 · 8	42 · 9	62	1881	29	1880	3 · 96	—	—
Liverpool	29 · 862	42 · 7	40 · 9	48 · 0	39 · 7	63	1872	22	1880	2 · 81	—	—
Parsonstown	29 · 852	41 · 8	40 · 3	49 · 1	37 · 0	62	1874	20	1890	2 · 86	63 · 1	25
Valencia	29 · 867	47 · 4	45 · 5	52 · 3	42 · 9	63	1881	27	1890	5 · 63	63 · 8	25
Roche's Point	29 · 869	46 · 2	44 · 6	51 · 2	42 · 0	61	1875	27	1890	4 · 79	—	—
Pembroke	29 · 871	47 · 1	45 · 4	50 · 3	43 · 6	58	1884, 95	28	1890	4 · 04	58 · 8	23
Scilly	29 · 898	50 · 1	48 · 1	52 · 6	46 · 6	60	1875, 81	29	1890	3 · 80	—	—
Prawle Point	29 · 917	46 · 4	44 · 9	51 · 2	42 · 1	61*	1881	19*	1890	3 · 26	—	—
Jersey	29 · 937	48 · 0	46 · 0	52 · 3	44 · 3	64	1874, 81	16	1890	4 · 19	70 · 9	26
Hurst Castle	29 · 912	45 · 3	44 · 3	50 · 7	41 · 0	66	1874	20	1890	3 · 11	—	—
Dover	29 · 904	44 · 7	43 · 3	49 · 7	40 · 9	61	1895	17	1890	3 · 30	—	—
LONDON	29 · 910	42 · 5	41 · 1	49 · 6	38 · 3	65	1894	19	1879	2 · 31	29 · 5†	11†
Oxford	29 · 908	41 · 4	40 · 2	48 · 5	37 · 7	68	1881	19	1871, 87	2 · 42	55 · 4	22
Cambridge	29 · 901	41 · 0	40 · 1	48 · 9	36 · 0	65	1895	15	1890	2 · 07	61 · 7	24
Yarmouth	29 · 879	43 · 4	42 · 2	47 · 7	39 · 2	60	1895	23	1890	2 · 92	—	—

* Extremes of temperature at these Stations are from observations made during the 15 years—1881-95. † The Sunshine values are for Westminster.

GENERAL SITUATION AT 8 A.M.

PRESSURE

Highest 30.3 inches and upwards over the south of England, the Netherlands, Germany, and the northern and central parts of France, 30.1 inches and upwards in an anticyclone embracing the whole of Western Europe.
Lowest 29.7 inches and less in the extreme north of Norway.
Gradients slight.
Barometer rising a little over Western Europe as a whole, but falling in Sweden.

TEMPERATURE

Highest 56° at Perpignan, 55° at Lisbon, 54° at Pembroke and Scilly, and 53° at Valencia (Ireland)
Lowest (1) 35° at Haparanda and 36° at Holmsund; (2) 36° at Munich and 37° at Belfort; (3) 37° at Aberdeen and 38° at Nairn.
During yesterday the thermometer rose to 55° and upwards at several of our own southern stations to 60° at Dungeness and to 62° at Jersey.

WIND

Light from between Southwest and Northwest over the greater part of our Islands, Southwesterly or Westerly also in Scandinavia, Denmark and N. Germany, with a moderate gale at Bodö.
Light from the Eastward or Northeastward over France and South Germany.

WEATHER

Cloudy over Western Europe as a whole, with mist or fog in many places and slight rain in some isolated parts of England and Wales. Rain was also falling at Christiansund
Fine in the northeast of Scotland, and also in the extreme south of France.
Rain fell yesterday in the west and north of our Islands generally, and also in the west of Norway, the quantity, however, being mostly slight.

SEA

Rather rough at Pembroke, and moderate on several other parts of our western coasts, as well as off the west of Norway, slight or smooth elsewhere.

PROBABLE CHANGES IN SYSTEM NOW PREVALENT

Anticyclonic conditions have now spread over the whole of Western Europe, and there are at present no signs of any material change. Fair dry weather is probable in most districts with however a good deal of mist or fog in places.

FORECASTS

For the 24 hours ending at NOON on NOVEMBER 16TH 1898

DISTRICTS.		FORECASTS.
0	SCOTLAND NORTH	Northwesterly to southwesterly winds, light; fair generally.
1	SCOTLAND EAST	Westerly and southwesterly winds, light; fair generally.
2	ENGLAND N.E.	Southwesterly winds, light; cloudy, some mist or fog, slight rain locally.
3	ENGLAND EAST	
4	MIDLAND COUNTIES	
5	ENGLAND SOUTH	Light variable airs; fair generally, but some mist or fog.
6	SCOTLAND WEST	Same as No. 5.
7	ENGLAND N.W.	
8	ENGLAND S.W.	Southerly to southwesterly winds, light or moderate; fair generally.
9	IRELAND NORTH	Same as No. 5.
10	IRELAND SOUTH	Light breezes, chiefly Easterly; fair generally.
	WARNINGS	None Issued.

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

YESTERDAY'S 2 P.M. REPORTS.

	BAR.	THER. Dry.	THER. Wet.	WIND. Direc.	F.	WEA.	SEA.
Skudesnaes ...	30·09	48	48	SSE	1	o	4
Sumburgh Head	29·83	47	45	W	4	o	5
Stornoway	29·91	48	45	NW	3	bc	3
Aberdeen	29·99	45	43	SW	3	o g	3
Shields	30·12	53	50	SW	3	o m	3
Ardrossan	29·95	49	49	SSW	5	r	4
Malin Head ...	30·02	48	48	SSW	3	o	3
Belmullet	30·09	51	49	WNW	2	o	*
Holyhead	30·18	53	50	SW	5	o	4
Valencia	30·12	53	53	S	4	r m	4
Scilly	30·27	55	52	SSW	2	c	2
Jersey	30·30	59	53	NW	1	b	1
Hurst Castle ...	30·29	58	53	L	0	c m	0
Dungeness ...	30·30	58	55	L	0	bc	0
North Foreland	30·33	51	50	W	1	b	0
London (Westminster)	30·30	52	49	WNW	1	c m	*
Yarmouth ...	30·26	52	49	WSW	2	b	2
Rochefort ...	30·15	62	59	E	3	bc	*

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

Weather in morning fine over the greater part of England, but foggy in the southeastern districts; dull in Ireland and Scotland, with rain in several places. Cloudy over the Continent generally, with fog at many of the northern and Central stations, rain at Copenhagen and also at Madrid and Barcelona, and thunder at Perpignan. Fine in the extreme south of Russia, as well as over the northern parts of Italy and the Adriatic. Rain falling later in the west and north of our Islands generally, as well as in the west of Norway, and a considerable quantity (1·14in.) reported at Perpignan.

Temperature fallen generally, but risen in Scandinavia and Denmark. Morning readings highest 70° at Malta, 68° at Cagliari and Algiers, and 66° at Valetta and La Calle, above 60° at many of the Mediterranean stations. Lowest (1) 21° at Haparanda, 24° at Archangel, 28° at Odessa and 29° at Lemberg; (2) 34° at Oxford and 36° in London. Rising during day to 50° and upwards at several of our northern stations, to between 55° and 60° in the south of England and to 62° at Jersey. Exceeding 60° also in the west and south of France, and reaching 66° at Nice.

Wind light to moderate from the south or southwest over the greater part of our Islands, and from the southeast in the south of Norway; calm or variable over Sweden and Northern Russia. Easterly or Northeasterly over France, and Northeasterly or Northerly over Italy and the Spanish Peninsula. Calm or light from Southeast in Austria. Subsequently veering to the Northwestward on our own extreme northwestern coasts; no important change occurring elsewhere.

Barometer highest 30.4 inches and upwards over Austria and the south of Russia; 30·1 inches and upwards in an anticyclone embracing all but the extreme northwestern and southwestern parts of Europe. Lowest 29.8 inches and less in two depressions one lying off the North of Scotland, and the other over Morocco. Former disturbance subsequently moving northeastwards and barometer rising in all parts of Western Europe.

EXPLANATION OF THE COLUMNS GIVEN ON PAGE 1.

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

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N.B.—The morning observations are now made at 8 a.m. in the British Islands, Belgium, Germany, Sweden, and Norway, at 7 a.m. in France, and at 9 a.m. in Spain and Portugal. The evening observations are made at 8 p.m. at Oxford, but at 6 p.m. at the other stations in the British Islands and in France; at 8 p.m. in Sweden, Norway and Germany. The time at each Station is the Standard Time of its Country.

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TERMS: For Daily Weather Report, forwarded by Book Post, £1 0 0 per annum.
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DAILY WEATHER REPORT

for 8 a.m. on Wednesday, 16th November, 1898

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

	STATIONS.	YESTERDAY EVENING. (See note at bottom of last page.) Barom. At 32° and M.S.L.	Temp. Dry Bulb.	Wind. Direc.	Wind. Force (0 to 12.)	Weather	THIS MORNING. (See note at bottom of last page.) Barometer. At 32° Fahr. and M. S. L.	Barometer. Change since Yesterday.	Temperature. Dry Bulb.	Temperature. Wet Bulb.	Temperature. Change since Yesterday.	Wind. Direc.	Wind. Force (0 to 12.)	Weather.	Sea (0 to 9.)	PAST 24 HOURS. Weather.	Hours of Bright Sunshine.	Temp. Max.	Temp. Min.	Rainfall.
		Ins.	°				Ins.	Ins	°	°	°							°	°	Ins.
Scandinavia	Haparanda ...	30·00	28	NW	0	b	30·06	+·21	31	30	− 4	NNW	2	bc	4	b	4	36	27	-
	Hernösand ...	30·17	36	W	0	b	30·22	+·21	26	24	− 10	W	0	b	4	b	4	41	?	-
	Stockholm ...	30·08	43	NNW	2	0	30·19	+·12	41	40	3	N	2	0	4	0	4	46	39	0·04
	Wisby	30·10	45	SW	4	r	30·15	+·02	45	45	+ 1	NNW	2	0	4	r	4	45	37	0·16
	Karlstad ...	30·14	37	W	0	b	30·21	+·15	35	34	− 11	N	2	b	4	b	4	#	#	-
	Bodö	29·86	43	SW	8	0	29·88	+·17	42	40	0	SSW	6	c	4	0	*	43	39	0·35
	Christiansund ...	30·11	43	WSW	3	bc	30·07	+·02	44	42	0	WSW	2	bc	3	bc	*	45	43	0·08
	Skudesnaes ...	30·22	48	W	0	b	30·21	+·07	40	39	− 5	E	2	bc	2	c,b	*	48	37	*
	Færder (Christiania Fjord)	30·14	41	NNE	1+	0	30·20	+·14	39	37	− 4	NNE	4	0	2	0	*	43	37	-
	Skagen (The Scaw)	30·13	45	N	2	0	30·19	+·09	43	41	− 3	NE	2	0	0	0	*	48	43	-
	Fanö	30·20	46	W	0	m	30·22	+·03	43	43	− 6	W	1	m	*	m	*	50	43	-
British Isles.	Sumburgh Head	30·07	44	SW	1	bc	29·96	−·11	47	45	+ 3	S	3	0	4	bc	*	49	42	0·03
	Stornoway ...	30·07	41	W	3	0	29·88	−·22	48	47	+ 6	SW	5	0	5	p.c.o	1·9	48	37	0·12
	Wick	30·08	46	W	1	b	29·97	−·12	48	46	+ 7	S	3	bc	1	b	*	50	39	-
	Nairn	30·13	41	W	1	b	29·99	−·19	40	39	+ 2	W	0	b	1	b	*	51	35	-
	Aberdeen ...	30·18	38	SW	1	bmw	30·07	−·12	42	40	+ 5	SSW	3	bcm	1	bmw	5·8	49	37	-
	Leith	30·17	44	WSW	2	m	30·09	−·10	44	43	0	WSW	1	0	*	m	*	50	39	-
	Shields	30·20	47	N	1	c	30·15	−·05	47	46	− 1	W	0	m	2	bcm.r	*	50	45	0·06
	Spurn Head ...	30·20	51	SW	2	0	30·19	−·05	49	49	0	WSW	2	qfr	2	qf	*	53	46	0·02
	York	30·23	50	S	1	rf	30·19	−·04	48	48	+ 1	S	1	r	*	rf	?	52	46	0·19
	Loughborough ...	30·22	51	SSW	2	0	30·22	−·05	49	49	0	W	0	qgmd	*	c.mg.p	*	54	49	0·01
	Ardrossan ...	30·19	49	SSE	1	qm	30·08	−·14	47	47	+ 2	E	2	qf	2	bcm.qm	*	51	44	0·18
	Malin Head ...	30·13	47	S	3	d	30·02	−·17	53	53	+ 9	SW	4	qm	3	c,d	*	53	44	0·32
	Belmullet ...	30·12	49	WSW	3	r	30·03	−·19	53	53	+ 5	WSW	3	0	*	0,r	*	54	45	0·39
	Donaghadee ...	30·20	46	SSW	2	0	30·11	−·10	51	51	+ 5	SW	4	r	2	0	*	51	40	0·16
	Liverpool (Bidston)	30·21	49	WNW	1	c	30·19	−·03	49	49	− 1	SSE	1	0	1	pm	*	54	48	0·05
	Holyhead ...	30·20	49	W	0	bc	30·16	−·05	54	54	+ 2	SW	2	qm	1	0,bc	*	54	48	0·08
	Parsonstown ...	30·19	48	SE	1	0	30·18	−·07	54	53	+ 12	W	0	c	*	0,r	0·0	52	42	0·03
	Valencia ...	30·18	54	SSE	3	r	30·17	−·09	56	55	+ 13	S	3	qq	4	qm,r	0·0	56	41	0·03
	Roche's Point ..	30·23	50	SE	1	c	30·22	−·03	54	53	+ 5	SSE	1	c	3	c,q	*	54	48	0·01
	Pembroke (St. Ann's Hd.)	30·22	54	W	1	q	30·23	−·02	56	55	+ 2	W	3	qq	4	q	0·0	56	53	0·04
	Scilly	30·25	55	SW	3	q	30·23	−·07	55	55	+ 1	SW	1	qm	3	m	0·0	58	53	0·02
	Prawle Point ...	30·31	52	SW	2	bc	30·28	−·05	55	54	+ 3	WSW	2	qm	1	c.r	*	56	51	0·06
	Jersey (St. Aubin's)	30·33	55	WSW	2	q	30·30	−·01	55	55	+ 12	WNW	1	qm	1	q,b	*	56	41	0·01
	Hurst Castle ...	30·28	55	WSW	2	0	30·25	−·08	54	53	+ 8	W	1	qm	1	0	*	55	45	0·02
	Dungeness ...	30·28	52	WSW	1	c	30·23	−·10	54	52	+ 7	WSW	3	qp	2	0.c	*	56	47	0·01
	North Foreland	30·29	51	WSW	2	b	30·24	−·08	52	52	+ 2	W	2	qm	1	0,b	*	54	48	0·02
	London (Brixton) ...	30·28	51	SW	2	0	30·26	−·07	53	52	+ 6	SW	1	0	*	0p	0·0	54	47	0·05
	Oxford	30·27	51	SW	1	0	30·25	−·07	53	53	+ 6	SW	1	qp	*	0qp	*	53	47	0·02
	Cambridge ...	30·26	50	SW	2	0	30·23	−·08	52	52	+ 5	W	0	qgm	*	0	0·2	54	46	0·04
	Yarmouth ...	30·22	50	SW	1	cm	30·20	−·08	51	50	+ 4	W	2	qf	2	cm	*	52	45	0·04
Germany & Holland.	Cuxhaven ...	30·21	45	SW	2	0	30·19	−·07	46	46	+ 1	W	1	qf	*	qd	*	48	43	-
	Berlin	30·26	48	W	2	0	30·22	−·07	47	46	− 1	W	2	0	*	0	*	52	46	0·04
	Wiesbaden ...	#	#	#	#	#									#		#			
	Munich... ..	30·36	38	E	1	0	30·34	−·05	31	36	+ 1	S	2	r	*	0	*	39	34	0·01
	The Helder ...																#			
Belgium.	Brussels ...	#	#	#	#	#	30·30	−·08	44	44	+ 5	SSW	1	r	*		*	51	37	0·01
	Cape Gris Nez...	?	55	W	3	bc	?	?	55	55	+ 6	W	2	r	2	qbc	*	55	46	0·04
	Paris	30·35	46	NW	1	q	30·33	−·05	44	44	+ 2	S	2	q	*		*	?	42	-
	Brest	30·34	53	W	0	b	30·30	−·07	50	50	+ 2	ESE	1	c	-	qbc	*	59	44	-
	Lorient... ...	30·34	55	E	1	bc	30·31	−·05	45	45	− 4	W	0	q	-	bc	*	61	45	-
France &	Rochefort ...	30·29	52	E	2	b	30·28	·00	46	45	− 2	E	4	m	*	m.b	*	57	43	-
	Belfort	30·36	37	E	4	q	30·34	−·02	37	36	0	SSE	1	q	*		*	40	36	-
	Lyons	30·38	42	N	1	q	30·37	+·05	40	40	− 3	N	1	q	*		*	43	39	-
	Nice	30·19	55	W	0	q	30·21	+·01	47	45	− 5	E	2	q	2		*	66	46	-
	Perpignan ...	30·22	61	W	0	q	30·23	+·02	45	45	− 11	W	0	q	*		*	66	43	-
	Biarritz ...	30·21	58	N	3	0	30·18	−·02	50	50	− 2	W	0	m	2	0	*	61	48	-
Penin-sula.	Corunna ...																#			
	Lisbon	30·12	61	NNE	4	b	30·15	+·05	56	52	+ 1	NE	3	0	*	b	*	66	55	-
	Azores (P. Delgada)	30·24	63	S	3	bc	30·22	−·02	64	61	0	S	4	0	4	bc	*	68	63	-

For Explanation of Columns, see bottom of last page. Erratum.—The Dry and Wet bulb temperature readings at Valencia y'day should read 43° & 42°

NOTE: *The Sunshine for London given in this Table is now recorded on the tower of the Wesleyan Training College, Westminster.*

Bright Sunshine yesterday Southport... 0·0 hrs;

WEATHER CHARTS

FOR Wednesday, 16th November, 1898

BAROMETER, WIND AND SEA.

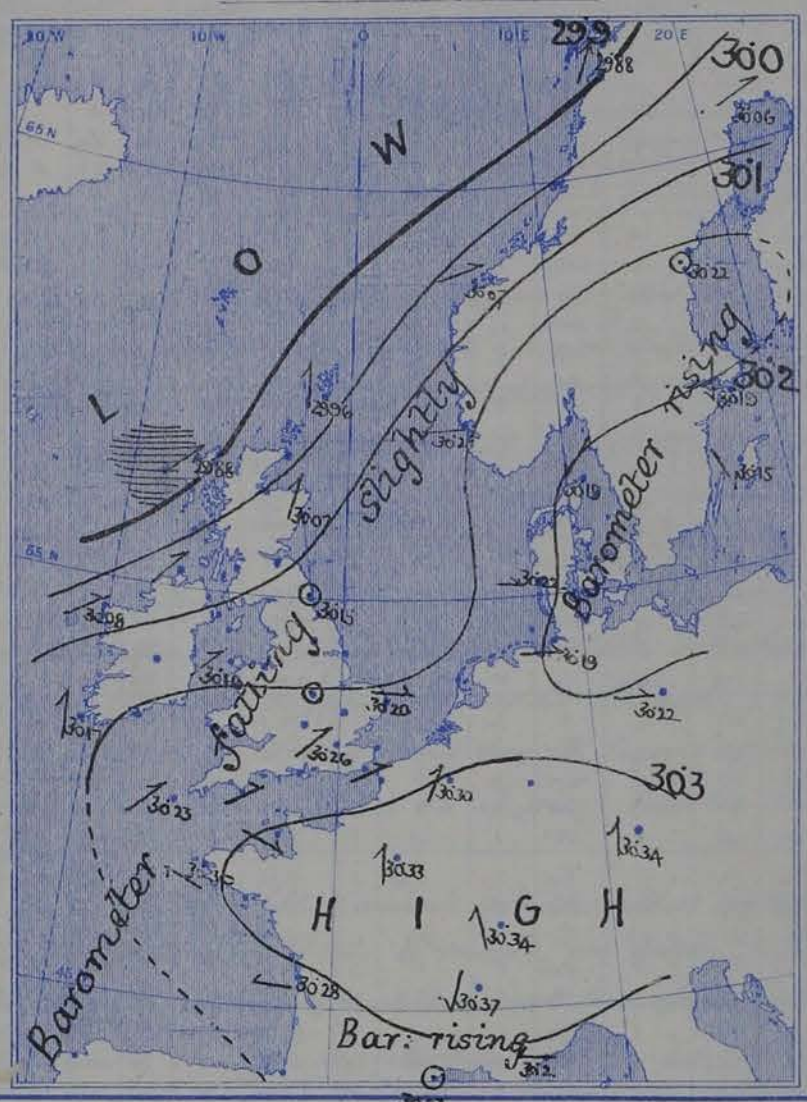
BAROMETER—Isobars are drawn for each tenth of an inch.

WIND—Arrows shew Directions and Force, flying with the wind.

Force above 10 ⟶⟶ ; *Force 5 to 7* ⟶ ; } Calm ⊙

Force 8 to 10 ⟶ ; *Force 1 to 4* ⟶ ; }

SEA—Rough ; *High*

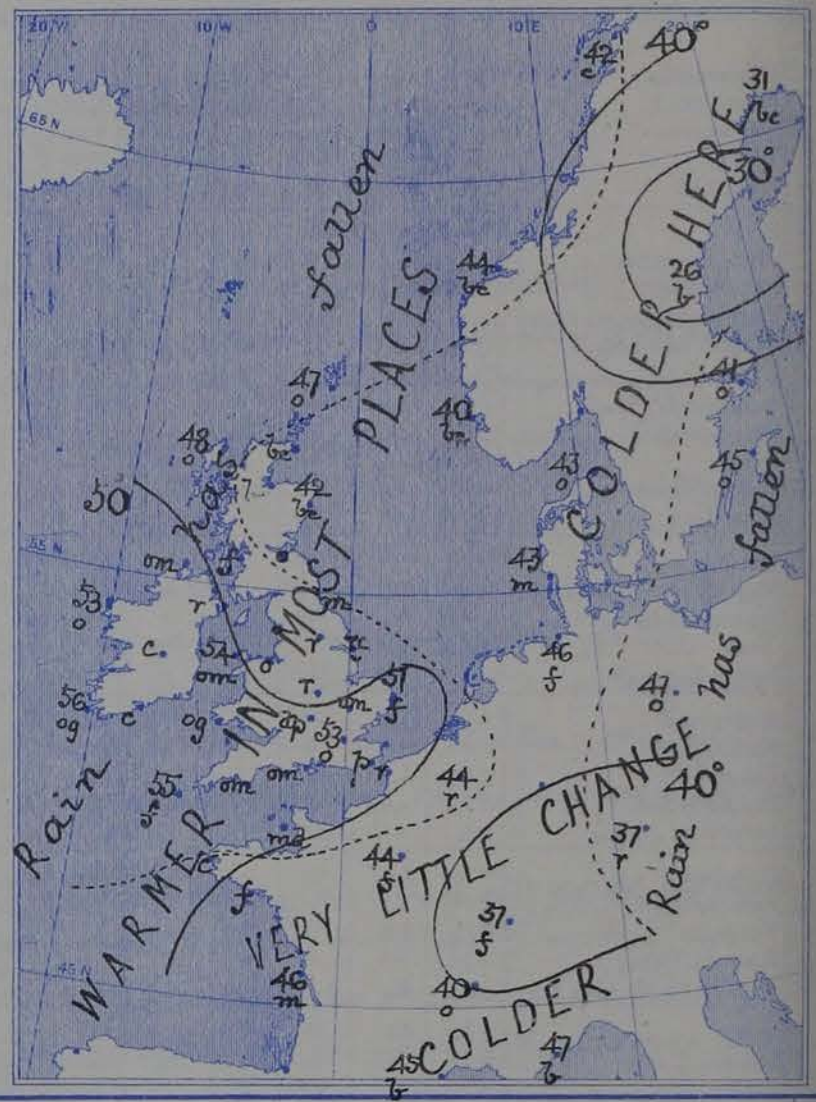


TEMPERATURE & WEATHER.

TEMPERATURE—Isotherms are drawn for each 10°.

WEATHER—Shown by Letters of the Beaufort Scale.

RAINFALL—A dotted line separates areas where rain has fallen from those without rain. The fall in past 24 hours when exceeding half an inch is shown thus—0·6.



VALUES FOR PRESSURE, TEMPERATURE, RAINFALL, AND BRIGHT SUNSHINE
IN THE MONTH OF NOVEMBER.

STATIONS.	PRESSURE AT 8 A.M. Means, 1871—95.	TEMPERATURE OF AIR. 1871-95. Means of				Absolute Extremes.				RAINFALL. Means, 1866—95.	BRIGHT SUNSHINE. Means, 1881—95.	
		Dry Bulb 8 a.m.	Wet Bulb 8 a.m.	Daily Maximum.	Daily Minimum.	Maximum	Years.	Minimum.	Years.		Hours.	Per cent. of possible.
	(*Inches.*)	°	°	°	°	°		°		(*Inches.*)		
Sumburgh Head	29·693	42·3	40·6	45·8	38·2	55	1890	21	1875	4·14	—	—
Stornoway	29·703	42·0	41·0	46·4	37·1	56	1881	20	1880	4·80	42·1	18
Wick	29·728	41·6	40·1	46·2	36·4	58	1885, 89	15	1884	2·93	—	—
Nairn	29·743	40·0	38·4	45·7	35·5	61	1885, 94	18	1880	2·14	—	—
Aberdeen	29·772	40·7	38·9	46·3	36·7	62	1872, 89	15	1880, 84	3·16	54·7	23
Leith	29·798	41·8	40·1	48·2	37·1	64	1872	18	1885	2·05	—	—
Shields	29·824	42·4	40·8	47·6	38·0	62	1881, 94	20	1880	2·39	—	—
Spurn Head	29·854	43·5	42·2	47·1	40·4	61*	1894, 95	28*	1884	2·28	—	—
York	29·859	40·9	39·7	47·7	36·6	62	1894, 95	14	1871	2·21	39·7	16
Loughborough	29·888	40·7	39·5	48·4	36·7	63*	1881, 93, 94, 95	19*	1887, 93	2·21	—	—
Ardrossan	29·799	43·3	41·6	47·9	39·2	69	1872	21	1880	3·78	—	—
Malin Head	29·755	43·9	42·0	48·0	40·9	—	—	—	—	—	—	—
Belmullet	29·799	45·3	43·3	49·4	41·5	—	—	—	—	5·92	—	—
Donaghadee	29·819	43·4	42·3	48·5	39·4	60	1894	27	1878, 83	3·10	—	—
Holyhead	29·845	45·9	44·2	49·8	42·9	62	1881	29	1880	3·96	—	—
Liverpool	29·862	42·7	40·9	48·0	39·7	63	1872	22	1880	2·81	—	—
Parsonstown	29·852	41·8	40·3	49·1	37·0	62	1874	20	1890	2·86	63·1	25
Valencia	29·867	47·4	45·5	52·3	42·9	63	1881	27	1890	5·63	63·8	25
Roche's Point	29·869	46·2	44·6	51·2	42·0	61	1875	27	1890	4·79	—	—
Pembroke	29·871	47·1	45·4	50·3	43·6	58	1884, 95	28	1890	4·04	58·8	23
Scilly	29·898	50·1	48·1	52·6	46·6	60	1875, 81	29	1890	3·80	—	—
Prawle Point	29·917	46·4	44·9	51·2	42·1	61*	1881	19*	1890	3·26	—	—
Jersey	29·937	48·0	46·0	52·3	44·3	64	1874, 81	16	1890	4·19	70·9	26
Hurst Castle	29·912	45·3	44·3	50·7	41·0	66	1874	20	1890	3·11	—	—
Dover	29·904	44·7	43·3	49·7	40·9	61	1895	17	1890	3·30	—	—
LONDON	29·910	42·5	41·1	49·6	38·3	65	1894	19	1879	2·31	29·5†	11†
Oxford	29·908	41·4	40·2	48·5	37·7	68	1881	19	1871, 87	2·42	55·4	22
Cambridge	29·901	41·0	40·1	48·9	36·0	65	1895	15	1890	2·07	61·7	24
Yarmouth	29·879	43·4	42·2	47·7	39·2	60	1895	23	1890	2·92	—	—

* Extremes of temperature at these Stations are from observations made during the 15 years—1881-95. † The Sunshine values are for Westminster.

GENERAL SITUATION AT 8 A.M.

PRESSURE

Highest, 30·3 in: and upwards over South Germany and the northern and central parts of France.
Lowest, 29·9 in: and less, in a large area lying to the northward and northwestward of our Islands.
Gradients slight. Barometer falling slightly in most parts of the United Kingdom, France, and Germany, rising in Denmark and Sweden.

TEMPERATURE

Highest, 56° at Valencia (Ireland), Pembroke and Lisbon, and 55° at Scilly, Roche's Point, and Jersey.
Lowest (1) 26° at Hernosand and and 31° at Haparanda; (2) 37° at Belfast and Munich; (3) 40° at Nairn and 42° at Aberdeen.
During yesterday the thermometer rose to 50° and upwards in nearly all parts of the United Kingdom, and to 55° or a little above it on our south and southwest coasts.

WIND

SW^{ly} (S^{ly} to W^{ly}) over our Islands and the northern parts of Scandinavia; light in force generally, but fresh on some parts of our extreme northwest coasts, and strong at Bodø.
Light from the E^{ly} in the west and south of France. N^{ly} in the south of Sweden; W^{ly} in Denmark and North Germany.

WEATHER

Dull over Western Europe as a whole, with mist or fog in many places, and slight rain at some of the English stations, as well as at Donaghadee. Rain is falling also at Brussels and Munich.
Fine in the northeast of Scotland and also at most of the Scandinavian stations and in the extreme south of France.
A little rain fell yesterday in nearly all parts of Ireland and England and also in the north and west of Scotland. A solar halo was seen in the morning at Roche's Point.

SEA

Slight or smooth generally, but rather rough at Stornoway.

PROBABLE CHANGES IN SYSTEM NOW PREVALENT

Cyclonic systems are now moving northwards along our extreme western coasts, and are at the same time spreading eastwards over the United Kingdom. Cloudy weather seems likely to continue in most places, with a good deal of mist and fog and some rain.

FORECASTS

For the 24 hours ending at NOON on 17th NOVEMBER, 1898.

DISTRICTS.		FORECASTS.
0	SCOTLAND NORTH	S^{ly} and SW^{ly} winds, freshening; dull, some rain.
1	SCOTLAND EAST	SW^{ly} winds, light or moderate; fair at first, some rain later.
2	ENGLAND N.E.	Same as No 5.
3	ENGLAND EAST	
4	MIDLAND COUNTIES	
5	ENGLAND SOUTH	SW^{ly} winds, light; dull, misty, slight rain locally.
6	SCOTLAND WEST	Same as No 0
7	ENGLAND N.W.	Same as No 5.
8	ENGLAND S.W.	
9	IRELAND NORTH	S^{ly} and SW^{ly} winds, freshening; dull, some rain.
10	IRELAND SOUTH	

WARNINGS

NONE ISSUED.

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

YESTERDAY'S 2 P.M. REPORTS.

	BAR.	THER. Dry.	THER. Wet.	WIND. Direc.	F.	WEA.	SEA.
Skudesnaes ...	30·17	48	47	W	0	c	2
Sumburgh Head	30·08	46	43	WSW	1	bc	4
Stornoway	30·04	47	45	WNW	3	r	3
Aberdeen	30·19	46	43	SSW	1	bm	1
Shields	30·22	49	47	N	1	bcm	2
Ardrossan	30·19	50	50	S	1	bcm	1
Malin Head ...	30·16	49	47	SSW	3	c	3
Belmullet	30·18	51	49	WSW	2	o	*
Holyhead	30·21	52	51	NW	1	o	1

	BAR.	THER. Dry.	THER. Wet.	WIND. Direc.	F.	WEA.	SEA.
Valencia	30·21	53	51	W	0	om	4
Scilly	30·25	56	56	SSW	3	m	3
Jersey	30·35	55	54	SE	2	o	2
Hurst Castle ...	30·31	55	52	WSW	1	o	1
Dungeness ...	30·30	55	54	WSW	1	o	1
North Foreland	30·31	52	50	WSW	2	o	1
London (Westminster)	30·30	52	49	SW	2	od	*
Yarmouth ...	30·24	52	49	WSW	2	cm	2
Rochefort ...	30·30	51	50	ENE	3	m	*

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

Weather in morning cloudy or dull over Europe as a whole, with mist or fog in many places; rain falling in isolated parts of England and Wales, as well as at Christiansund and Haparanda, and snow at St. Petersburg. Fine in the northeast of Scotland, as well as in Greece, Portugal, and the south of France. Rain falling later over the whole of England, Ireland, and the west and north of Scotland, as well as in Scandinavia, Germany, and the Netherlands, but amounts mostly slight.

Temperature fallen in Ireland and Scotland, risen over England and the neighbouring parts of the Continent, changed irregularly elsewhere. Morning readings highest 68° at Malta, 65° at Sanguinaire and 64° at Cagliari; slightly above 60° at several of the Mediterranean stations. Lowest 25° at Moscow and Warsaw, 26° at Kharkov, and 29° at Archangel; lowest in our Islands 37° at Aberdeen and 38° at Nairn. Rising during day to 50° and upwards in nearly all parts of the United Kingdom and to 55° and upwards on our extreme southern coasts, exceeding 60° in the west and south of France, and reaching 66° at Nice, Perpignan and Lisbon.

Wind light from between SW. and NW. in our Islands; SW^{3} or W^{3} in Scandinavia, Denmark, and North Germany, and strong in force at Bodö; S^{3} over Finland. Light or moderate from the E^{ly} or NE^{ly} over France and the Spanish Peninsula; N^{3} in Italy and Greece. Subsequently backing to the S^{ly} in Ireland, no important change occurring elsewhere.

Barometer highest 30·4 ins. and upwards in the south of Russia and also in the southwest of Germany; 30·1 ins. and upwards in an anticyclone embracing all but the extreme northern parts of Europe. Lowest 29·7 ins. and less, in a depression over the north of Norway. Barometer falling over Western Europe during day, and anticyclone beginning to give way on its western side.

EXPLANATION OF THE 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.

N.B.—The morning observations are now made at 8 a.m. in the British Islands, Belgium, Germany, Sweden, and Norway, at 7 a.m. in France, and at 9 a.m. in Spain and Portugal. The evening observations are made at 8 p.m. at Oxford, but at 6 p.m. at the other stations in the British Islands and in France; at 8 p.m. in Sweden, Norway and Germany. The time at each Station is the Standard Time of its Country.

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,, Weekly ,, ,, £1 10 0 ,,

DAILY WEATHER REPORT

for 8 a.m. on Thursday, 17th November, 1898

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

	STATIONS.	YESTERDAY EVENING. (See note at bottom of last page.) Barom. At 32° and M.S.L.	Temp. Dry Bulb.	Wind. Direc.	Wind. Force (0 to 12.)	Weather	THIS MORNING. (See note at bottom of last page.) Barometer. At 32° Fahr. and M. S. L.	Barometer. Change since Yesterday.	Temperature. Dry Bulb.	Temperature. Wet Bulb.	Temperature. Change since Yesterday.	Wind. Direc.	Wind. Force (0 to 12.)	Weather.	Sea (0 to 9.)	PAST 24 HOURS. Weather.	Hours of Bright Sunshine.	Temp. Max.	Temp. Min.	Rainfall.
		Ins.	°				Ins.	Ins	°	°	°							°	°	Ins.
Scandinavia	Haparanda ...	29.99	35	N	4	c	29.62	-.04	37	36	+ 6	SW	6	c	4	c	*	37	25	-
	Hernösand ...	30.12	36	SW	4	b	29.86	-.36	37	35	+ 11	S	6	b	#	b	*	37	25	-
	Stockholm ...	30.27	39	E	0	c	30.26	+.07	40	39	- 1	SW	4	0	#	c	*	43	36	-
	Wisby	30.26	45	NNW	4	c	30.37	+.22	43	42	- 2	W	4	b	#	c	*	46	41	-
	Karlstad ...	30.28	38	E	0	c	30.21	.00	42	40	+ 7	SSW	6	c	#	c	*	*	*	-
	Bodö	29.40	46	SSW	6	r	29.12	-.76	48	47	+ 6	SW	9	r	7	r	*	48	41	0.67
	Christiansund ...	29.86	45	WSW	2	c	29.65	-.42	55	49	+ 11	SW	9	0	7	c	*	55	43	-
	Skudesnaes ...	30.21	44	SSE	6	0	30.14	-.07	49	49	+ 9	S	8	0	4	bc, 0	*	49	37	*
	Færder (Christiania Fjord)	30.26	37	SW	1	b	30.20	.00	44	43	+ 5	SW	5	0	3	b	*	44	37	-
	Skagen (The Scaw)	30.30	44	SW	1	0	30.32	+.13	40	39	- 3	SW	3	bc	0	0	*	46	39	-
	Fanö	30.34	41	E	1	0	30.38	+.16	41	40	- 2	E	2	c	#	0	*	46	39	-
	Sumburgh Head	29.83	49	SW	4	0	29.93	-.03	49	48	+ 2	W	3	0	4	0	*	50	46	0.05
	Stornoway ...	29.81	54	SW	5	0	30.05	+.17	48	47	0	NW	3	r	3	0	0.3	54	45	0.15
	Wick	29.89	52	S	2	c	30.04	+.07	49	47	+ 1	S	2	bc	1	c	*	54	46	-
	Nairn	29.94	56	WSW	3	c	30.08	+.09	52	50	+ 12	W	1	bc	1	c	*	57	38	-
	Aberdeen ...	30.03	45	SSW	2	bw	30.11	+.04	46	46	+ 4	SW	1	bcmw	1	bcm, bw	3.4	53	44	-
British Islands.	Leith	30.07	50	E	0	m	30.14	+.05	56	54	+ 12	WSW	1	0	#	m	*	58	42	-
	Shields	30.17	53	W	1	m	30.22	+.07	52	52	+ 5	SW	2	m	2	f, r, m	*	55	45	0.01
	Spurn Head ...	30.21	52	SSW	2	0	30.28	+.09	51	51	+ 2	SSW	2	cm	2	0m	*	53	49	0.02
	York	30.20	52	SSW	1	0	30.29	+.10	48	47	0	S	1	b	#	m, b	0.0	54	46	0.02
	Loughborough ...	30.24	52	SE	1	0	30.30	+.08	45	45	- 4	SE	1	0fw	#	f, c, f	*	50	41	0.03
	Ardrossan ...	30.10	53	SSW	3	cm	30.17	+.09	52	52	+ 5	S	3	cm	3	0m	*	54	45	0.01
	Malin Head ...	30.01	54	S	4	bm	30.14	+.12	52	52	- 1	SSW	3	2m	2	bc, bm	*	56	52	0.04
	Belmullet ...	30.05	53	SSW	4	0	30.15	+.07	53	53	0	WSW	3	0	#	0	*	54	50	0.02
	Donaghadee ...	30.13	55	S	2	0	30.20	+.09	52	52	+ 1	WSW	3	0	2	0	*	54	50	0.01
	Liverpool (Bidston)	30.22	53	WSW	1	c	30.26	+.07	51	49	+ 2	S	1	b	1	cm	*	54	49	-
	Holyhead ...	30.20	55	SW	3	0f	30.25	+.09	53	53	- 1	SSW	3	df	2	gm, 0f	*	54	53	0.01
	Parsonstown ...	30.14	55	SE	1	0	30.23	+.05	48	47	- 6	E	0	c	#	c, 0	1.7	54	43	-
	Valencia ...	30.16	54	S	3	0m	30.19	+.02	54	53	- 2	S	2	0gm	3	gd, 0m	0.0	57	53	0.09
	Roche's Point ..	30.20	54	SSW	3	bf	30.26	+.04	54	53	0	SSW	3	0	3	f	*	57	52	0.04
	Pembroke (St. Ann's Hd.)	30.23	56	WSW	4	0	30.29	+.06	54	53	- 2	WSW	2	0d	3	c, 0	2.3	57	54	0.01
	Scilly	30.22	55	SSE	2	f	30.24	+.01	53	52	- 2	SE	1	f	1	f	1.4	59	52	0.03
	Prawle Point ..	30.27	53	WSW	1	bc	30.29	+.01	53	52	- 2	WSW	1	c	1	bc, rm	*	57	50	0.03
	Jersey (St. Aubin's)	30.27	57	E	0	0mdp	30.26	-.04	56	55	+ 1	ENE	2	0m	2	mpd	*	58	53	0.02
	Hurst Castle ...	30.26	55	NNW	1	0m	30.29	+.04	53	52	- 1	NNE	1	0gm	1	0m	*	56	53	-
	Dungeness ...	30.24	55	E	0	0	30.27	+.04	54	52	0	N	1	m	1	0	*	56	52	-
	North Foreland	30.26	54	W	2	0	30.29	+.05	54	53	+ 2	NE	2	0	1	m, 0	*	55	51	-
	London (Brixton) ...	30.26	53	E	0	0m	30.33	+.07	53	52	0	E	0	0gf	*	0m, 0f	0.0	55	49	-
	Oxford	30.27	54	W	1	0	30.32	+.07	52	52	- 1	NE	1	0gf	*	c, 0	*	58	51	-
	Cambridge ...	30.26	52	SW	1	bf	30.32	+.09	51	51	- 1	E	0	0	*	0, bf	0.8	59	47	-
	Yarmouth ...	30.21	51	E	0	cm	30.29	+.09	52	51	+ 1	WNW	2	cf	2	m2cm	*	52	49	0.02
Germany & Holland.	Cuxhaven ...	30.21	45	SE	1	fq	30.36	+.17	42	42	- 4	E	1	0	*	f	*	46	41	0.04
	Berlin	30.28	48	E	0		30.40	+.18	45	45	- 2	E	0	0	*	0	*	50	45	0.08
	Wiesbaden ...	*	*	*	*	*	30.32		46	44		NE	1	0	*	*	*	46	41	0.24
	Munich	30.30	41	E	0	f	30.26	-.08	38	38	+ 1	NE	5	f	*	f	*	43	37	0.04
	The Helder ...	30.22	50	E	0	0	30.32		46	45		SSE	1	0	0	0	*	54	46	0.12
Belgium.	Brussels ...	*	*	*	*	*	30.32	+.02	47	47	+ 3	ESE	2	0	*	b	*	50	44	0.20
	Cape Gris Nez ...	?	55	NW	1	m	?	?	53	51	- 2	ESE	1	m	1	m	*	55	50	-
	Paris	30.30	46	S	2	cf	30.25	-.08	50	50	+ 6	N	2	0	*	cf	*	50	44	-
	Brest	30.26	54	E	0	c	30.24	-.06	53	51	+ 3	E	2	c	2	c	*	55	41	-
	Lorient	30.26	52	E	0	0	30.24	-.07	51	50	+ 6	E	4	c	4	0	*	61	45	-
France &	Rochefort ...	30.20	50	E	4	0	30.17	-.11	46	46	0	E	4	bc	*	c, 0	*	57	41	-
	Belfort	30.30	40	E	1	f	30.20	-.14	39	39	+ 2	E	3	f	*	f	*	50	37	0.08
	Lyons	30.32	40	NW	1	m	30.20	-.17	42	42	+ 2	WSW	1	m	*	m	*	42	40	-
	Nice	30.14	51	E	0	0	30.06	-.15	48	46	+ 1	E	3	c	2	0	*	61	46	-
	Perpignan ...	30.16	50	E	0	0	30.07	-.16	47	47	+ 2	SW	1	f	*	0	*	59	45	-
	Biarritz ...	30.17	54	NNE	2	0	30.10	-.08	51	50	+ 1	SE	2	0	2	0	*	55	50	-
Peninsula.	Corunna ...																*			
	Lisbon	30.09	59	NNW	3	b	30.08	-.07	54	52	- 2	ENE	1	b	*	b	*	68	54	-
	Azores (P. Delgada)	30.18	64	SSW	3	bc	30.10	-.12	65	58	+ 1	SSW	4	0	4	bc	*	68	63	-

For Explanation of Columns, see bottom of last page. † *Received too late for Insertion in Charts on next page.*

NOTE: *The Sunshine for London given in this Table is now recorded on the tower of the Wesleyan Training College, Westminster.*

Bright Sunshine yesterday Southport 1.4 hrs;

WEATHER CHARTS

FOR Thursday, 17th November, 1898

BAROMETER, WIND AND SEA.

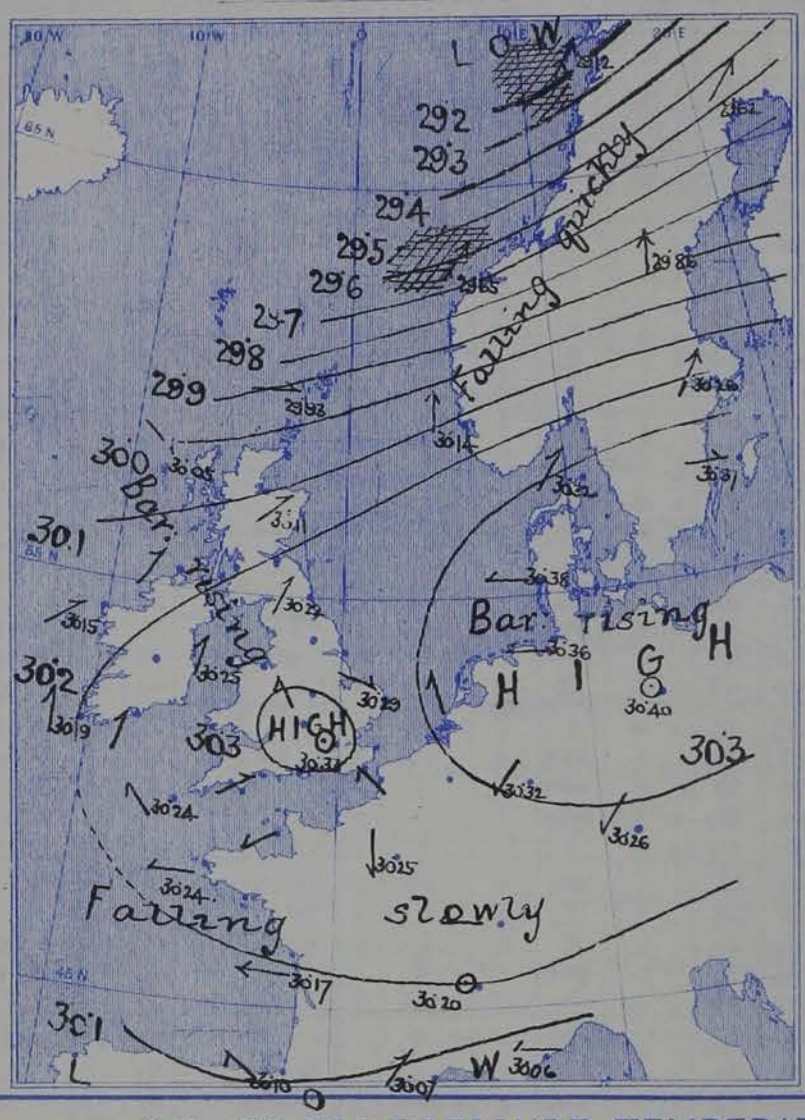
BAROMETER—Isobars are drawn for each tenth of an inch.

WIND—Arrows shew Directions and Force, *flying* with the wind.

Force above 10 ⟫⟶ ; Force 5 to 7 ⟶ : Calm ⊙

Force 8 to 10 ⟫⟶ ; Force 1 to 4 ⟶ ;

SEA—Rough ▤ ; High ▩



TEMPERATURE & WEATHER.

TEMPERATURE—Isotherms are drawn for each 10°.

WEATHER—Shown by Letters of the Beaufort Scale.

RAINFALL—A dotted line separates areas where rain has fallen from those without rain. The fall in past 24 hours when exceeding half an inch is shown thus—0·6.

VALUES FOR PRESSURE, TEMPERATURE, RAINFALL, AND BRIGHT SUNSHINE *IN THE MONTH OF NOVEMBER.*

STATIONS.	PRESSURE AT 8 A.M. Means, 1871—95.	TEMPERATURE OF AIR. 1871-95. Means of				Absolute Extremes.				RAINFALL. Means, 1866—95.	BRIGHT SUNSHINE. Means, 1881—95.	
		Dry Bulb 8 a.m.	Wet Bulb 8 a.m.	Daily Maximum.	Daily Minimum.	Maximum	Years.	Minimum.	Years.		Hours.	Per cent. of possible.
	(*Inches.*)	°	°	°	°	°		°		(*Inches.*)		
Sumburgh Head	29 · 693	42 · 3	40 · 6	45 · 8	38 · 2	55	1890	21	1875	4 · 14	—	—
Stornoway	29 · 703	42 · 0	41 · 0	46 · 4	37 · 1	56	1881	20	1880	4 · 80	42 · 1	18
Wick	29 · 728	41 · 6	40 · 1	46 · 2	36 · 4	58	1885, 89	15	1884	2 · 93	—	—
Nairn	29 · 743	40 · 0	38 · 4	45 · 7	35 · 5	61	1885, 94	18	1880	2 · 14	—	—
Aberdeen	29 · 772	40 · 7	38 · 9	46 · 3	36 · 7	62	1872, 89	15	1880, 84	3 · 16	54 · 7	23
Leith	29 · 798	41 · 8	40 · 1	48 · 2	37 · 1	64	1872	18	1885	2 · 05	—	—
Shields	29 · 824	42 · 4	40 · 8	47 · 6	38 · 0	62	1881, 94	20	1880	2 · 39	—	—
Spurn Head	29 · 854	43 · 5	42 · 2	47 · 1	40 · 4	61*	1894, 95	28*	1884	2 · 28	—	—
York	29 · 859	40 · 9	39 · 7	47 · 7	36 · 6	62	1894, 95	14	1871	2 · 21	39 · 7	16
Loughborough	29 · 888	40 · 7	39 · 5	48 · 4	36 · 7	63*	1881, 93, 94, 95	19*	1887, 93	2 · 21	—	—
Ardrossan	29 · 799	43 · 3	41 · 6	47 · 9	39 · 2	69	1872	21	1880	3 · 78	—	—
Malin Head	29 · 755	43 · 9	42 · 0	48 · 0	40 · 9	—	—	—	—	—	—	—
Belmullet	29 · 799	45 · 3	43 · 3	49 · 4	41 · 5	—	—	—	—	5 · 92	—	—
Donaghadee	29 · 819	43 · 4	42 · 3	48 · 5	39 · 4	60	1894	27	1878, 83	3 · 10	—	—
Holyhead	29 · 845	45 · 9	44 · 2	49 · 8	42 · 9	62	1881	29	1880	3 · 96	—	—
Liverpool	29 · 862	42 · 7	40 · 9	48 · 0	39 · 7	63	1872	22	1880	2 · 81	—	—
Parsonstown	29 · 852	41 · 8	40 · 3	49 · 1	37 · 0	62	1874	20	1890	2 · 86	63 · 1	25
Valencia	29 · 867	47 · 4	45 · 5	52 · 3	42 · 9	63	1881	27	1890	5 · 63	63 · 8	25
Roche's Point	29 · 869	46 · 2	44 · 6	51 · 2	42 · 0	61	1875	27	1890	4 · 79	—	—
Pembroke	29 · 871	47 · 1	45 · 4	50 · 3	43 · 6	58	1884, 95	28	1890	4 · 04	58 · 8	23
Scilly	29 · 898	50 · 1	48 · 1	52 · 6	46 · 6	60	1875, 81	29	1890	3 · 80	—	—
Prawle Point	29 · 917	46 · 4	44 · 9	51 · 2	42 · 1	61*	1881	19*	1890	3 · 26	—	—
Jersey	29 · 937	48 · 0	46 · 0	52 · 3	44 · 3	64	1874, 81	16	1890	4 · 19	70 · 9	26
Hurst Castle	29 · 912	45 · 3	44 · 3	50 · 7	41 · 0	66	1874	20	1890	3 · 11	—	—
Dover	29 · 904	44 · 7	43 · 3	49 · 7	40 · 9	61	1895	17	1890	3 · 30	—	—
LONDON	29 · 910	42 · 5	41 · 1	49 · 6	38 · 3	65	1894	19	1879	2 · 31	29 · 5†	11†
Oxford	29 · 908	41 · 4	40 · 2	48 · 5	37 · 7	68	1881	19	1871, 87	2 · 42	55 · 4	22
Cambridge	29 · 901	41 · 0	40 · 1	48 · 9	36 · 0	65	1895	15	1890	2 · 07	61 · 7	24
Yarmouth	29 · 879	43 · 4	42 · 2	47 · 7	39 · 2	60	1895	23	1890	2 · 92	—	—

* Extremes of temperature at these Stations are from observations made during the 15 years—1881-95. † The Sunshine values are for Westminster.

GENERAL SITUATION AT 8 A.M.

PRESSURE

Highest, 30·3 ins: and upwards over Central England and also over Germany, Denmark, and the south of Sweden; 30 ins: & upwards in an anticyclone lying over nearly the whole of western and central Europe.
Lowest, 29·2 ins: and less, in a deep depression lying off the northern parts of the Norwegian coasts
Gradients slight generally, but steep over the more northern parts of Scandinavia.
Barometer falling slightly in France and quickly in Scandinavia, but rising elsewhere.

TEMPERATURE

Highest, (1) 56° at Leith and 55° at Christiansund; (2) 56° at Jersey and 54° at Valencia (Ireland), Rocks P. Pembroke, Dungarvan, and the North Ireland
Lowest, (1) 37° at Hafnarnda and Hernosand; (2) 38° at Munich and 39° at Belfast; lowest in our Islands 45° at Loughborough.
During yesterday the thermometer rose to 55° and upwards in most parts of the United Kingdom, and to 59° at Loughborough, Parsonstown, Selby and Cambridge.

WIND

Light from the S. or SW. over the greater part of our Islands, and strong from the same quarters in Scandinavia with a strong gale at Bodö and Christiansund
Variable in the extreme south of England; light or moderate from the E. or NE. over France, Belgium, and Germany.

WEATHER

Cloudy or dull over Western Europe as a whole, with fog or mist in many parts of our Islands, France, and Germany, and rain at Bodö and Stornoway, as well as at Lyons.
Fine in the northeast of Scotland, and also at some stations in the north of England.
Slight rain fell yesterday in Ireland and the west and north of England, as well as in the Shetlands and Hebrides, and somewhat larger quantities in Germany and the Netherlands.

SEA

Slight or smooth generally, but high on the west coasts of Norway.

PROBABLE CHANGES IN SYSTEM NOW PREVALENT

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

FORECASTS

For the 24 hours ending at NOON on 18th Nov. 1898

DISTRICTS.		FORECASTS.
0	SCOTLAND NORTH	W. winds, moderate or fresh; cloudy, rain locally.
1	SCOTLAND EAST	SW. winds, light; fair generally, but some mist or fog.
2	ENGLAND N.E.	
3	ENGLAND EAST	Calms or NE. airs; foggy or misty in most places.
4	MIDLAND COUNTIES	
5	ENGLAND SOUTH	
6	SCOTLAND WEST	Same as Nos 1 and 2
7	ENGLAND N.W.	
8	ENGLAND S.W.	SE. and E. winds, light; fair generally, but some mist or fog.
9	IRELAND NORTH	S. and SW. winds, moderate; cloudy, rain locally.
10	IRELAND SOUTH	
	WARNINGS	NONE ISSUED

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

YESTERDAY'S 2 P.M. REPORTS.

	BAR.	THER. Dry.	THER. Wet.	WIND. Direc.	F.	WEA.	SEA.
Skudesnaes ...	30·20	45	43	SSE	4	bc	3
Sumburgh Head	29·86	48	46	S	4	o	5
Stornoway	29·84	53	52	WSW	4	o	4
Aberdeen	30·02	46	44	SSW	3	bcm	2
Shields	30·15	52	51	SSW	1	of	2
Ardrossan	30·09	53	53	E	2	om	2
Malin Head ...	30·03	55	54	SW	3	bc	3
Belmullet	30·05	54	54	SW	1	o	*
Holyhead	30·19	55	55	SW	3	ogm	2

	BAR.	THER. Dry.	THER. Wet.	WIND. Direc.	F.	WEA.	SEA.
Valencia	30·15	57	56	S	3	fd	4
Scilly	30·23	56	56	SSE	2	f	2
Jersey	30·28	58	57	WSW	2	o	2
Hurst Castle ...	30·26	56	54	W	1	om	1
Dungeness ...	30·22	56	55	WNW	2	o	1
North Foreland	30·24	55	54	W	2	m	1
London (Westminster)	30·24	57	54	N	1	o	
Yarmouth ...	30·19	52	51	WNW	2	dm	2*
Rochefort ...	30·24	51	50	E	3	c	*

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

Weather in morning dull over western, central, and eastern Europe generally, with mist or fog in many places, and slight rain at some of the English stations; rain falling also at Helsingfors, Memel, Cracow, and Munich. Fine over the northeast of Scotland and the greater part of Scandinavia, as well as in southern Europe generally. Slight rain falling later over nearly the whole of Ireland and the west and north of England, as well as in the Hebrides, and somewhat larger quantities over Germany and the Netherlands.

Temperature risen a little in our Islands, but fallen at most of the Continental stations. Morning readings highest 68° at Malta and 64° at Sanguinaires, Cagliari, La Calle and Tunis; above 60° at several of the Mediterranean stations, and slightly above 55° on some parts of our more southwest coast. Lowest 24° at Kharkov, 26° at Hernösand, and 29° at Moscow. Rising during day to 55° and upwards in nearly all parts of the United Kingdom, and to 59° at Loughborough, Parsonstown, Scilly, and Cambridge, reaching 61° at Lorient and 68° at Lisbon.

Wind SW[3] (S to W) over our Islands and the northern parts of Scandinavia; light in force generally, but fresh on some parts of our extreme northeast coast, and strong at Bodö. Light from the N.W. in the south of Sweden, and from the W.N.W. in Germany and Austria; S[1] at most of the Russian stations. E[?] or NE[?] over the Spanish Peninsula and the west and south of France; N[1] in Italy and Greece. No important change occurring over Western Europe during day.

Barometer highest, 30·4 in. and upwards over the south of Russia; 30·3 in. and upwards over South Germany, and the central and northern parts of France; 30·1 in. and upwards in an anticyclone embracing all but the extreme northern and northwestern parts of Europe. Lowest 29·9 in. and less, in a large area lying to the northward and northwestward of our Islands; secondary hollow reported over the northeast of England. Secondary passing on later to the North Sea, but no decided change occurring over Western Europe generally.

EXPLANATION OF THE 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.

N.B.—The morning observations are now made at 8 a.m. in the British Islands, Belgium, Germany, Sweden, and Norway, at 7 a.m. in France, and at 9 a.m. in Spain and Portugal. The evening observations are made at 8 p.m. at Oxford, but at 6 p.m. at the other stations in the British Islands and in France: at 8 p.m. in Sweden, Norway and Germany. The time at each Station is the Standard Time of its Country.

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DAILY WEATHER REPORT

for 8 a.m. on Friday, 18th November, 1898.

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

	STATIONS.	YESTERDAY EVENING. (See note at bottom of last page.)					THIS MORNING. (See note at bottom of last page.)									PAST 24 HOURS.				
		Barom.	Temp.	Wind.			Barometer.		Temperature.			Wind.						Temp.		
		At 32° and M.S.L.	Dry Bulb.	Direc.	Force (0 to 12.)	Weather	At 32° Fahr. and M. S. L.	Change since Yesterday.	Dry Bulb.	Wet Bulb.	Change since Yesterday.	Direc.	Force (0 to 12.)	Weather.	Sea (0 to 9.)	Weather.	Hours of Bright Sunshine.	Max.	Min.	Rainfall.
		Ins.	°				Ins.	Ins.	°	°	°							°	°	Ins.
Scandinavia.	Haparanda ...														#		#			
	Hernösand ...	29.92	44	S	2	o	30.10	+.24	39	36	+ 2	W	6	b	#	o	#	45	37	-
	Stockholm ...	30.15	44	SW	4	o	30.35	+.09	45	44	+ 5	WNW	2	bc	#	o	#	45	36	-
	Wisby	30.36	42	S	6	b	30.41	+.04	45	44	+ 2	WNW	6	o	#	b	#	45	39	-
	Karlstad ...	30.14	47	SW	4	f	30.39	+.18	44	40	- 1	WSW	2	f	#	f	#	#	#	-
	Bodö																*			
	Christiansund ...	30.05	45	NNW	9	r	30.38	+.73	43	38	- 12	NW	6	c	5	r	#	55	43	0.35
	Skudesnaes ...	30.27	48	N	0	o	30.44	+.30	41	41	- 8	NNE	1	b	2	f.o	#	50	37	#
	Færder (Christiania Fjord)	30.15	48	SW	5	m	30.39	+.19	45	42	+ 1	NNW	1	o	3	m	#	48	44	-
	Skagen (The Scaw)	30.30	47	W	3	m	30.41	+.09	45	45	+ 5	NNW	1	m	0	m	#	50	39	-
	Fanö	30.43	46	S	3	o	30.49	+.11	46	46	+ 5	SSW	3	o	#	o	#	46	41	-
British Islands.	Sumburgh Head	30.20	45	NNW	2	o	30.23	+.30	47	46	- 2	S	3	o	4	o	#	50	40	-
	Stornoway ...	30.21	47	NW	2	o	30.11	+.06	52	50	+ 4	SW	4	o	4	c.o	0.1	52	45	0.03
	Wick	30.25	49	S	2	bc	30.19	+.15	51	50	+ 2	S	3	bc	1	bc	#	52	43	0.05
	Nairn	30.25	48	ENE	1	c	30.22	+.14	43	43	- 9	N	0	b	1	c	#	57	38	-
	Aberdeen ...	30.28	48	E	1	bc	30.28	+.17	48	47	+ 2	S	2	bw	1	bc	1.9	53	46	-
	Leith	30.23	53	NNW	1	o	30.31	+.17	50	48	- 6	WSW	1	o	#	o	#	57	47	-
	Shields	30.31	52	NNW	2	bc	30.37	+.15	48	48	- 4	SW	2	f	2	bcm.bc	#	60	43	-
	Spurn Head ...	30.32	52	SSW	1	o	30.41	+.13	50	49	- 1	S	1	c	2	c.of	#	54	50	-
	York	30.31	53	S	1	o	30.40	+.11	50	49	+ 2	SSE	1	o	#	o	0.1	54	48	-
	Loughborough ...	30.33	47	W	1	c	30.39	+.09	43	42	- 2	SE	1	cfw	#	c	#	53	42	-
	Ardrossan ...	30.24	52	S	2	om	30.28	+.11	52	52	0	SSE	2	om	2	cm.om	#	53	49	0.01
	Malin Head ...	30.19	53	SSW	3	bcm	30.15	+.01	51	50	- 1	SSW	5	o	2	c.bcm	#	54	48	-
	Belmullet ...	30.20	53	SSW	4	o	30.15	.00	53	50	0	SSW	4	o	#	om.o	#	54	48	0.03
	Donaghadee ...	30.25	52	SW	2	c	30.30	+.10	52	51	0	SSW	4	o	2	c	#	56	48	0.01
	Liverpool (Bidston)	30.31	54	SE	1	o	30.37	+.11	51	50	0	SE	1	m	?	of	#	56	50	-
	Holyhead ...	30.29	53	N	0	f	30.32	+.07	51	50	- 2	ESE	1	om	1	df	#	54	50	0.16
	Parsonstown ...	30.29	51	N	0	bc	30.25	+.02	51	50	+ 3	N	0	c	#	bc	1.4	54	42	-
	Valencia ...	30.21	54	SSE	3	o	30.18	-.01	53	52	- 1	SSE	3	oq	4	o	0.0	58	51	0.03
	Roche's Point ..	30.26	52	SSW	3	b	30.26	.00	54	53	0	S	3	om	8	b.m	#	57	51	0.02
	Pembroke (St. Ann's Hd.)	30.27	54	SE	4	o	30.30	+.01	51	49	- 3	ESE	4	o	3	o	0.1	58	50	-
	Scilly	30.22	53	ESE	2	df	30.22	-.02	54	52	+ 1	E	4	c	3	cm.f	1.4	57	50	0.01
	Prawle Point ...	30.28	54	ENE	2	df	30.28	-.01	50	48	- 3	ENE	4	o	3	o.p	#	55	47	0.02
	Jersey (St. Aubin's)	30.25	57	NNW	2	om	30.22	-.04	49	47	- 7	ENE	4	bc	3	o.om	#	57	47	0.02
	Hurst Castle ...	30.28	55	ENE	1	om	30.31	+.02	50	47	- 3	ENE	4	cm	2	oqm.om	#	55	42	-
	Dungeness ...	30.27	52	ENE	4	c	30.31	+.04	50	49	- 4	ENE	5	bc	4	c	#	55	46	-
	North Foreland	30.32	50	E	2	b	30.35	+.06	50	48	- 4	E	4	b	3	bc.b	#	54	48	-
	London (Brixton) ...	30.33	54	S	1	o	30.36	+.03	49	46	- 4	NE	2	c	#	ogf.cm	0.0	55	47	-
	Oxford	30.34	53	NE	1	o	30.38	+.06	47	45	- 5	E	2	o	#	o	#	56	43	-
	Cambridge ...	30.34	53	NE	1	o	30.40	+.08	48	46	- 3	E	1	om	#	o	0.0	55	45	-
	Yarmouth ...	30.32	52	SSE	2	bc	30.37	+.08	50	47	- 2	E	4	bc	4	c.bc	#	53	48	-
Germany & Holland.	Cuxhaven ...	30.40	43	S	1	b	30.49	+.13	40	40	- 2	E	1	b	#	b	#	45	36	-
	Berlin	30.47	47	N	0	o	30.54	+.14	42	41	- 3	SE	1	f	#	o	#	50	42	-
	Wiesbaden ...	*	*	*	*	*	30.36	+.04	43	40	- 3	NE	2	f	#	*	#	50	43	-
	Munich	30.25	42	E	6	o	30.28	+.02	36	35	- 2	E	6	o	#	o	#	43	36	-
	The Helder ...	30.38	47	N	0	o	30.44	+.12	40	39	- 6	ESE	1	f	o	o	#	48	39	-
Belgium.	Brussels ...	*	*	*	*	*	30.38	+.06	36	36	- 11	E	4	f	#	f	#	51	36	-
	Cape Gris Nez ...																#			
	Paris	30.23	45	NNE	2	b	30.23	-.02	41	40	- 9	NE	3	o	#	b	#	53	37	-
	Brest	30.17	52	NE	2	o	30.19	-.05	48	47	- 5	ENE	1	c	2	o	#	55	45	-
	Lorient	30.19	55	ENE	3	c	30.15	-.09	48	46	- 3	E	4	o	4	c	#	57	46	-
France &	Rochefort ...	30.10	53	NNE	4	o	30.07	-.10	46	45	0	ENE	4	b	#	bc.o	#	59	45	-
	Belfort	30.15	42	E	5	m	30.17	-.03	40	39	+ 1	ENE	5	m	#	m	#	44	38	-
	Lyons	30.12	44	NW	1	m	30.10	-.10	41	41	- 1	N	1	m	#	m	#	44	41	0.04
	Nice	29.96	57	E	6	b	29.95	-.11	55	44	+ 7	NE	7	c	7	b	#	63	48	-
	Perpignan ...	29.99	50	W	0	r	30.00	-.07	50	50	+ 3	SW	1	r	#	r	#	57	47	0.16
	Biarritz ...	30.02	51	N	3	o	29.97	-.13	50	49	- 1	E	3	o	2	o	#	57	48	0.24
Peninsula.	Corunna ...																#			
	Lisbon	30.00	56	NNW	4	b	29.93	-.15	55	52	+ 1	NNW	2	b	#	b	#	64	54	-
	Azores (P. Delgada)	30.03	63	S	4	c	29.94	-.16	64	58	- 1	S	4	o	4	c	#	68	61	-

For Explanation of Columns, see bottom of last page. † *Received too late for Insertion in Charts on next page.*

NOTE: *The Sunshine for London given in this Table is now recorded on the tower of the Wesleyan Training College, Westminster.*

Bright Sunshine yesterday Southport 0.2 hrs;

WEATHER CHARTS

FOR Friday, 18th November, 1898

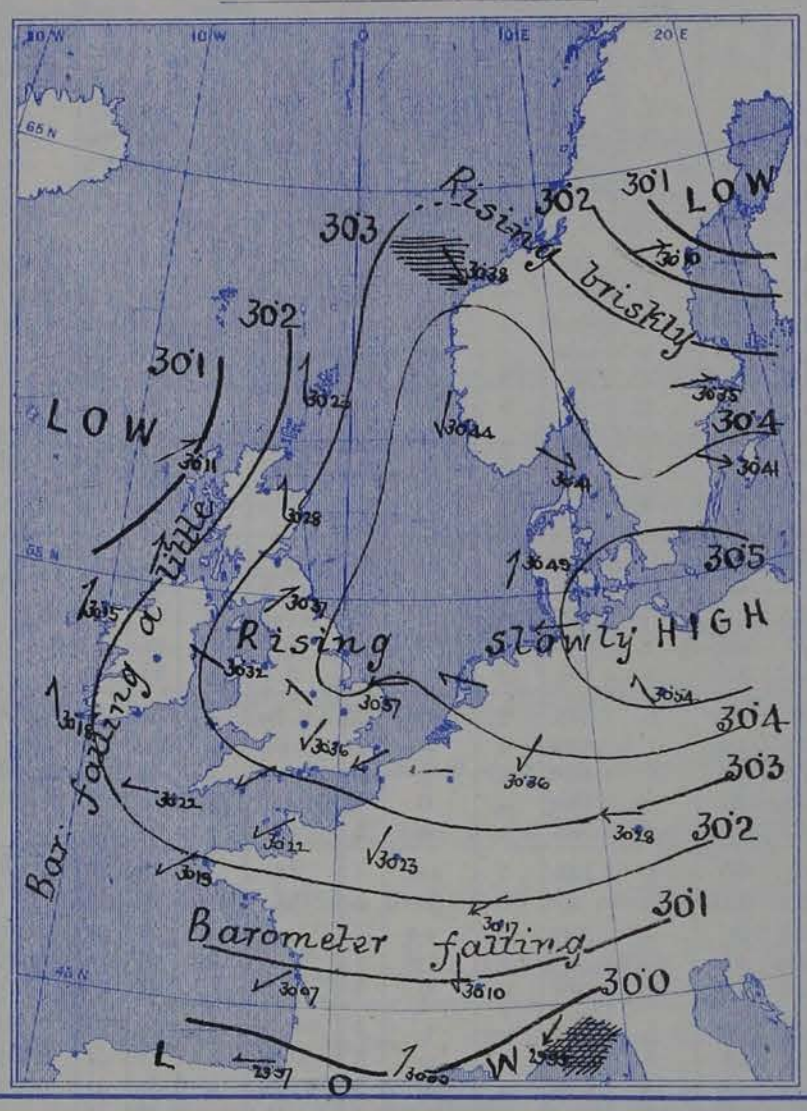
BAROMETER, WIND AND SEA.

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

WIND—Arrows shew Directions and Force, flying with the wind.

Force above 10 ⟫⟶ ; *Force 5 to 7* ⟶ ; *Force 8 to 10* ⟫⟶ ; *Force 1 to 4* ⟶ ; } Calm ⊙

SEA—*Rough* ; *High*

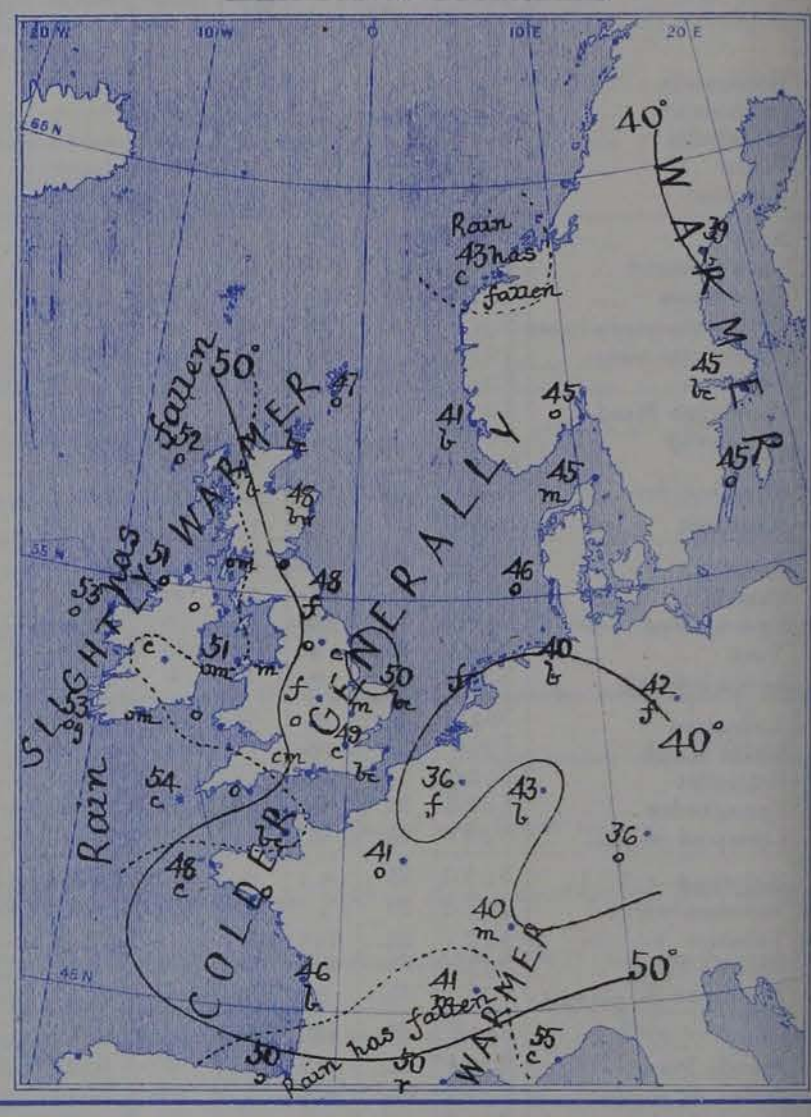


TEMPERATURE & WEATHER.

TEMPERATURE—Isotherms are drawn for each 10°.

WEATHER—Shown by Letters of the Beaufort Scale.

RAINFALL—A dotted line separates areas where rain has fallen from those without rain. The fall in past 24 hours when exceeding half an inch is shown thus—0·6.



VALUES FOR PRESSURE, TEMPERATURE, RAINFALL, AND BRIGHT SUNSHINE IN THE MONTH OF NOVEMBER.

STATIONS.	PRESSURE AT 8 A.M. Means, 1871—95.	TEMPERATURE OF AIR. 1871-95. Means of				Absolute Extremes.				RAINFALL. Means, 1866—95.	BRIGHT SUNSHINE. Means, 1881—95.	
		Dry Bulb 8 a.m.	Wet Bulb 8 a.m.	Daily Maximum.	Daily Minimum.	Maximum	Years.	Minimum.	Years.		Hours.	Per cent. of possible.
	(*Inches.*)	°	°	°	°	°		°		(*Inches.*)		
Sumburgh Head	29 · 693	42 · 3	40 · 6	45 · 8	38 · 2	55	1890	21	1875	4 · 14	—	—
Stornoway	29 · 703	42 · 0	41 · 0	46 · 4	37 · 1	56	1881	20	1880	4 · 80	42 · 1	18
Wick	29 · 728	41 · 6	40 · 1	46 · 2	36 · 4	58	1885, 89	15	1884	2 · 93	—	—
Nairn	29 · 743	40 · 0	38 · 4	45 · 7	35 · 5	61	1885, 94	18	1880	2 · 14	—	—
Aberdeen	29 · 772	40 · 7	38 · 9	46 · 3	36 · 7	62	1872, 89	15	1880, 84	3 · 16	54 · 7	23
Leith	29 · 798	41 · 8	40 · 1	48 · 2	37 · 1	64	1872	18	1885	2 · 05	—	—
Shields	29 · 824	42 · 4	40 · 8	47 · 6	38 · 0	62	1881, 94	20	1880	2 · 39	—	—
Spurn Head	29 · 854	43 · 5	42 · 2	47 · 1	40 · 4	61*	1894, 95	28*	1884	2 · 28	—	—
York	29 · 859	40 · 9	39 · 7	47 · 7	36 · 6	62	1894, 95	14	1871	2 · 21	39 · 7	16
Loughborough	29 · 888	40 · 7	39 · 5	48 · 4	36 · 7	63*	1881, 93, 94, 95	19*	1887, 93	2 · 21	—	—
Ardrossan	29 · 799	43 · 3	41 · 6	47 · 9	39 · 2	69	1872	21	1880	3 · 78	—	—
Malin Head	29 · 755	43 · 9	42 · 0	48 · 0	40 · 9	—	—	—	—	—	—	—
Belmullet	29 · 799	45 · 3	43 · 3	49 · 4	41 · 5	—	—	—	—	5 · 92	—	—
Donaghadee	29 · 819	43 · 4	42 · 3	48 · 5	39 · 4	60	1894	27	1878, 83	3 · 10	—	—
Holyhead	29 · 845	45 · 9	44 · 2	49 · 8	42 · 9	62	1881	29	1880	3 · 96	—	—
Liverpool	29 · 862	42 · 7	40 · 9	48 · 0	39 · 7	63	1872	22	1880	2 · 81	—	—
Parsonstown	29 · 852	41 · 8	40 · 3	49 · 1	37 · 0	62	1874	20	1890	2 · 86	63 · 1	25
Valencia	29 · 867	47 · 4	45 · 5	52 · 3	42 · 9	63	1881	27	1890	5 · 63	63 · 8	25
Roche's Point	29 · 869	46 · 2	44 · 6	51 · 2	42 · 0	61	1875	27	1890	4 · 79	—	—
Pembroke	29 · 871	47 · 1	45 · 4	50 · 3	43 · 6	58	1884, 95	28	1890	4 · 04	58 · 8	23
Scilly	29 · 898	50 · 1	48 · 1	52 · 6	46 · 6	60	1875, 81	29	1890	3 · 80	—	—
Prawle Point	29 · 917	46 · 4	44 · 9	51 · 2	42 · 1	61*	1881	19*	1890	3 · 26	—	—
Jersey	29 · 937	48 · 0	46 · 0	52 · 3	44 · 3	64	1874, 81	16	1890	4 · 19	70 · 9	26
Hurst Castle	29 · 912	45 · 3	44 · 3	50 · 7	41 · 0	66	1874	20	1890	3 · 11	—	—
Dover	29 · 904	44 · 7	43 · 3	49 · 7	40 · 9	61	1895	17	1890	3 · 30	—	—
LONDON	29 · 910	42 · 5	41 · 1	49 · 6	38 · 3	65	1894	19	1879	2 · 31	29 · 5†	11†
Oxford	29 · 908	41 · 4	40 · 2	48 · 5	37 · 7	68	1881	19	1871, 87	2 · 42	55 · 4	22
Cambridge	29 · 901	41 · 0	40 · 1	48 · 9	36 · 0	65	1895	15	1890	2 · 07	61 · 7	24
Yarmouth	29 · 879	43 · 4	42 · 2	47 · 7	39 · 2	60	1895	23	1890	2 · 92	—	—

* Extremes of temperature at these Stations are from observations made during the 15 years—1881-95.

† The Sunshine values are for Westminster.

GENERAL SITUATION AT 8 A.M.

PRESSURE

Highest, 30·5 ins: and upwards in North Germany; 30·2 ins: and upwards in an anticyclone embracing nearly the whole of Western Europe.
Lowest, 30·0 ins: and less, over the Spanish Peninsula and the extreme south of France; 30·1 ins: and less in an area lying off our extreme northwest coast, and also in another system over the northern parts of Scandinavia.
Gradients slight. Barometer falling in the extreme west and north of our Islands, and also in the west and south of France, but rising elsewhere.

TEMPERATURE

Highest, (1) 55° at Nice and Lisbon; (2) 54° at Roche's Point and Scilly and 53° at Belmullet and Valencia (Ireland).
Lowest, (1) 36° at Brussels and Munich, and 40° at Belfast; (2) 39° at Herrisand and 41° at Karlstad (3) 43° at Nairn and Loughborough.
During yesterday the thermometer rose to 55° and upwards in many parts of the United Kingdom, and to 60° at Shields.

WIND

E. or NE. over Germany, the Netherlands, France, and the south and southeast of England; light or moderate in force generally, but blowing a slight gale at Nice.
Light to moderate from the S. in Ireland and the northern parts of Great Britain.
Strong from the W. or NW. at many of the Scandinavian stations.

WEATHER

Fair or fine over the southeastern parts of England, as well as in the northeast of Scotland, and at many of the Scandinavian stations.
Dull elsewhere, with mist or fog in many places, and rain at Perpignan.
Slight rain fell yesterday at many of our western and extreme northern stations, as well as in the south of France.

SEA

Moderate to smooth generally, but rather rough at Christiansund and high at Nice.

PROBABLE CHANGES IN SYSTEM NOW PREVALENT

Anticyclonic conditions still prevail over Western Europe generally. The barometer is, however, falling again on our extreme western and northern coasts, so that another depression is apparently advancing over the northern parts of the Atlantic. The disturbance is scarcely likely to affect any but the extreme northern parts of our islands.

FORECASTS

For the 24 hours ending at NOON on 19th November, 1898

DISTRICTS.		FORECASTS.
0	SCOTLAND NORTH	S. and SW. winds, freshening; dull, some rain.
1	SCOTLAND EAST	S. winds, light or moderate; fair generally.
2	ENGLAND N.E.	
3	ENGLAND EAST	E. winds, light or moderate; fair generally, cooler.
4	MIDLAND COUNTIES	
5	ENGLAND SOUTH	
6	SCOTLAND WEST	S. and SE. winds, light; dull, misty.
7	ENGLAND N.W.	
8	ENGLAND S.W.	E. and SE. winds, moderate; fair generally.
9	IRELAND NORTH	S. winds, freshening; dull, rain locally.
10	IRELAND SOUTH	

WARNINGS

None issued.

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

YESTERDAY'S 2 P.M. REPORTS.

	BAR.	THER. Dry.	THER. Wet.	WIND. Direc.	F.	WEA.	SEA.		BAR.	THER. Dry.	THER. Wet.	WIND. Direc.	F.	WEA.	SEA.
Skudesnaes ...	30·17	50	50	SW	4	f	4	Valencia	30·19	55	53	SSE	3	o	4
Sumburgh Head	30·11	46	45	W	3	o	4	Scilly	30·24	55	55	ENE	2	cm	1
Stornoway	30·17	50	47	NW	2	c	2	Jersey	30·23	57	55	NE	1	o	1
Aberdeen	30·20	51	50	ENE	1	bc	1	Hurst Castle ...	30·28	55	54	NE	1	ogm	1
Shields	30·24	58	54	SW	2	bcm	2	Dungeness ...	30·27	54	52	ENE	3	c	2
Ardrossan	30·20	53	53	S	2	cm	2	North Foreland	30·32	54	52	E	2	bc	2
Malin Head ...	30·16	53	53	SSW	3	c	2	London (Westminster)	30·30	57	54	S	1	ogm	*
Belmullet	30·17	54	53	SSW	4	om	*	Yarmouth ...	30·29	53	52	E	0	c	2
Holyhead	30·27	54	53	SW	2	fa	1	Rochefort ...	30·14	57	55	E	4	bc	*

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

Weather in morning dull over the greater part of our Islands and the Continent, with fog in many of the western and central countries, and rain at Bodö and Stornoway as well as at Lyons. Fine at some stations in the north of England, as well as in the northeast of Scotland and in Sweden; fine also in Spain and the extreme south of France. Slight rain falling during day at several of our western and extreme northern stations, and somewhat larger amounts in the west of Norway and the south of France.

Temperature risen in the northern parts of our Islands and the Continent, but changed rather irregularly elsewhere. Morning readings highest 69° at La Calle, 67° at Malta and Tunis, and 65° at Langunaire; above 55° at the Mediterranean and Adriatic stations generally; above 50° in most parts of our Islands and as high as 56° at Leith. Lowest 24° at Archangel and Kharkov, 33° at Moscow, and 34° at Kuopio and Haparanda. Rising during day to 55° and upwards in many parts of the United Kingdom and to 60° at Shields; reaching 63° at Nice and 64° at Lisbon.

Wind light from the S^th or SW^d over the greater part of our Islands, and strong from the same quarters in Scandinavia, with a strong gale on the west coast of Norway. Variable in the extreme south of England, and light to moderate from the E^d or NE^d over western Germany, Belgium, France, the Spanish Peninsula, and the northern parts of Italy and the Adriatic. Calm in Austria; variable over southern Italy, light from the E^nd over the central and southern parts of Russia. No important change occurring over Western Europe during day.

Barometer highest 30·57 ins: at Kharkov, 30·4 ins: and upwards over the whole of eastern Germany and the southern parts of Russia; 30·1 ins: and upwards in an anticyclone embracing all but the northern and extreme southern parts of Europe. Lowest 29·2 ins: and less, in a large and deep depression with its centre off the northern parts of the Norwegian coasts; 29·9 ins: and less, in a shallow disturbance over Algeria. Norwegian depression subsequently moving eastwards or northeastwards, and barometer rising quickly in its rear.

EXPLANATION OF THE 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.

N.B.—The morning observations are now made at 8 a.m. in the British Islands, Belgium, Germany, Sweden, and Norway, at 7 a.m. in France, and at 9 a.m. in Spain and Portugal. The evening observations are made at 8 p.m. at Oxford, but at 6 p.m. at the other stations in the British Islands and in France; at 8 p.m. in Sweden, Norway and Germany. The time at each Station is the Standard Time of its Country.

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DAILY WEATHER REPORT

for 8 a.m. on Saturday, 19th November, 1898.

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

	STATIONS.	YESTERDAY EVENING. (See note at bottom of last page.)					THIS MORNING. (See note at bottom of last page.)								PAST 24 HOURS.				
		Barom.	Temp.	Wind.			Barometer.		Temperature.			Wind.						Temp.	
		At 32° and M.S.L.	Dry Bulb.	Direc.	Force (0 to 12.)	Weather	At 32° Fahr. and M. S. L.	Change since Yesterday.	Dry Bulb.	Wet Bulb.	Change since Yesterday.	Direc.	Force (0 to 12.)	Weather.	Sea (0 to 9.)	Weather.	Hours of Bright Sunshine.	Max.	Min.	Rainfall.
		Ins.	°				Ins.	Ins.	°	°	°							°	°	Ins.
Scandinavia	Haparanda ...	30·18	33	NW	2	b	30·17		34	33		S	4	c	*	b	*	41	28	-
	Hernösand ...	30·45	38	W	2	o	30·31	+·21	33	30	- 6	SW	0	b	*	o	*	45	33	-
	Stockholm ...	30·58	39	SW	0	b	30·52	+·17	38	37	- 7	SW	2	b	*	b	*	48	37	-
	Wisby	30·60	37	NNW	4	f	30·60	+·19	44	43	- 1	NNW	6	bc	*	f	*	48	34	-
	Karlstad ...	30·54	37	SW	0	bc	30·47	+·08	44	42	+ 3	W	2	o	*	bc	*	*	*	-
	Bodö																*			
	Christiansund ...	30·25	46	NNW	2	o	30·16	-·22	51	47	+ 8	W	3	bc	4	o	*	52	41	-
	Skudesnaes ...	30·47	46	SSE	4	f	30·48	+·04	48	48	+ 7	S	4	o o	3	c,f	*	48	39	*
	Færder (Christiania Fjord)	30·50	41	S	1	f	30·49	+·10	45	44	0	NSW	14	o	2	f	*	45	41	-
	Skagen (The Scaw)	30·54	46	NSW	1	m	30·56	+·15	46	46	+ 1	SW	2	m	o	m	*	50	41	-
	Fanö	30·60	40	SE	1	b	30·58	+·09	38	38	- 8	SE	4	o f	*	b	*	46	37	-
British Islands.	Sumburgh Head	30·11	50	S	3	b	30·17	-·06	51	50	+ 4	SSW	2	o	4	cb	*	52	47	-
	Stornoway ...	30·05	54	SW	6	ou	30·14	+·03	52	51	0	NSW	5	o	5	+,ou	0·0	54	49	0·10
	Wick	30·16	52	SW	2	b	30·22	+·03	49	47	- 2	SW	4	bc	2	b	*	55	48	-
	Nairn	30·17	54	SSW	3	b	30·24	+·02	45	44	+ 2	W	1	b	1	b	*	58	41	-
	Aberdeen ...	30·28	51	SSW	3	c	30·30	+·02	43	42	- 5	SW	2	bmw	2	cm,qq	2·2	53	43	-
	Leith	30·30	53	WSW	1	o	30·33	+·02	37	36	- 13	SSW	1	m	*	o	*	55	35	-
	Shields	30·38	49	SSE	3	o	30·37	·00	42	41	- 6	SSE	2	m	2	of,o	*	52	40	-
	Spurn Head ...	30·39	50	SE	3	c	30·34	-·07	48	47	- 2	ESE	4	o	4	o,c	*	51	47	-
	York	30·39	49	S	1	o	30·36	-·04	46	44	- 4	E	1	c	*	o	0·0	52	44	-
	Loughborough ...	30·39	43	ESE	1	b	30·33	-·06	45	43	+ 2	NE	3	om	*	c,bc,b,o	*	49	31	-
	Ardrossan ...	30·29	53	SSE	3	om	30·32	+·04	42	42	- 10	NE	2	bcf	2	o,om	*	53	42	-
	Malin Head ...	30·17	52	SSE	4	bm	30·23	+·08	42	42	- 9	S	3	bm	2	bc,bm	*	54	42	-
	Belmullet ...	30·18	54	S	4	bc	30·24	+·09	48	47	- 5	S	1	o	*	bc	*	57	46	0·01
	Donaghadee ...	30·28	53	S	5	o	30·31	+·01	49	47	- 3	SE	3	o	2	o	*	54	44	-
	Liverpool (Bidston)	30·37	45	SE	2	b	30·33	-·04	41	41	- 10	SE	2	o	?	bm	*	52	39	-
	Holyhead ...	30·29	54	SW	1	b	30·27	-·05	43	41	- 8	NE	2	b	1	cm,b	*	55	40	-
	Parsonstown ...	30·29	49	W	0	bc	30·26	+·01	42	41	- 9	W	0	o	*	bc	1·6	56	41	-
	Valencia ...	30·21	54	SSE	3	bc	30·21	+·03	46	44	- 7	ENE	1	ogm	3	c,bc	2·0	57	44	-
	Roche's Point ...	30·25	53	S	3	c	30·23	-·03	49	47	- 5	SE	3	c	3	c	*	57	43	-
	Pembroke (St. Ann's Hd.)	30·27	47	ESE	5	o	30·24	-·06	43	41	- 8	ENE	4	c	3	c,o	1·7	51	41	-
	Scilly	30·17	53	ENE	4	o	30·13	-·09	53	51	- 1	ENE	4	om	2	c,o	0·7	58	50	-
	Prawle Point ...	30·23	51	ENE	5	c	30·18	-·10	48	46	- 2	ENE	5	od	4	c,o	*	52	45	-
	Jersey (St. Aubin's)	30·20	48	E	5	bc	30·14	-·08	43	43	- 6	E	3	om	3	c,bc	*	51	42	-
	Hurst Castle ...	30·26	50	NE	3	bm	30·20	-·11	48	45	- 2	E	3	ogm	2	b,bm	*	54	46	-
	Dungeness ...	30·27	52	ENE	6	b	30·21	-·10	43	43	- 7	ENE	4	c	3	b	*	52	43	-
	North Foreland	30·35	50	ENE	5	bc	30·25	-·10	45	44	- 5	E	5	c	4	b,bc	*	51	44	-
	London (Brixton) ...	30·37	47	ENE	2	o	30·26	-·10	48	45	- 1	E	3	og	*	c,o	0·8	54	45	-
	Oxford	30·35	42	E	1	b	30·27	-·11	45	43	- 2	ENE	3	o	*	b,o	*	53	41	-
	Cambridge ...	30·39	43	E	1	o	30·29	-·11	43	42	- 5	NE	1	bmw	*	bc,o	4·6	55	38	-
	Yarmouth ...	30·35	48	E	4	bc	30·29	-·08	49	47	- 1	E	4	bc	4	bc	*	50	46	-
Germany & Holland.	Cuxhaven ...	30·52	43	ESE	3	b	30·50	+·01	41	39	+ 1	ESE	4	o	*	b,f	*	46	39	-
	Berlin	30·59	42	ESE	3	o	30·61	+·07	37	37	- 5	SE	4	o	*	o	*	48	37	-
	Wiesbaden ...	*	*	*	*	*	30·36	·00	40	36	- 3	W	0	b	*	*	*	50	37	-
	Munich	30·28	35	E	5	b	30·32	+·04	31	30	- 5	E	4	b	*	b	*	46	30	-
	The Helder ...	30·42	42	E	2	o	30·38	-·06	40	39	0	E	2	c	2	o	*	43	37	-
Belgium.	Brussels ...	*	*	*	*	*	30·30	-·08	33	33	- 3	ENE	1	m	*	b	*	45	32	-
	Cape Gris Nez ...	?	46	E	4	m	?	?	36	35		E	2	f	1	m	*	52	34	-
	Paris	30·21	42	NNE	5	b	30·19	-·04	34	33	- 7	ENE	2	m	*	b	*	50	33	-
	Brest	30·16	48	E	2	o	30·12	-·07	42	41	- 6	?	2	o	2	o	*	54	39	-
	Lorient	30·15	46	E	2	o	30·12	-·03	44	43	- 4	ENE	3	m	4	o	*	55	43	-
France &	Rochefort ...	30·06	50	E	4	b	30·08	+·01	44	43	- 2	E	4	o	*	b	*	59	37	-
	Belfort	30·17	40	E	4	m	30·25	+·08	36	35	- 4	ENE	5	m	*	m	*	43	35	-
	Lyons	30·16	42	NNW	1	o	30·22	+·12	38	38	- 3	NE	1	b	*	o	*	44	35	-
	Nice	30·03	55	NE	1	c	30·13	+·18	52	42	- 9	NE	1	bc	6	c	*	61	52	-
	Perpignan ...	30·05	52	W	0	o	30·10	+·10	51	51	+ 1	NW	2	f	*	o	*	55	50	0·64
	Biarritz ...	29·99	52	NE	3	o	30·01	+·04	50	49	0	ESE	3	o	2	o	*	57	48	-
Penin-sula.	Corunna ...																*			
	Lisbon	29·87	54	NNW	2	b	29·87	-·06	52	52	- 3	NE	3	o	*	b	*	61	52	-
	Azores (P. Delgada)	29·86	65	S	4	c	29·78	-·16	63	60	- 1	NSW	4	o	4	c	*	68	61	0·04

For Explanation of Columns, see bottom of last page. † *Received too late for Insertion in Charts on next page.*

NOTE: *The Sunshine for London given in this Table is now recorded on the tower of the Wesleyan Training College, Westminster.*

Bright Sunshine yesterday Southport 0·6 hrs;

WEATHER CHARTS

FOR Saturday, 19th November, 1898

BAROMETER, WIND AND SEA.

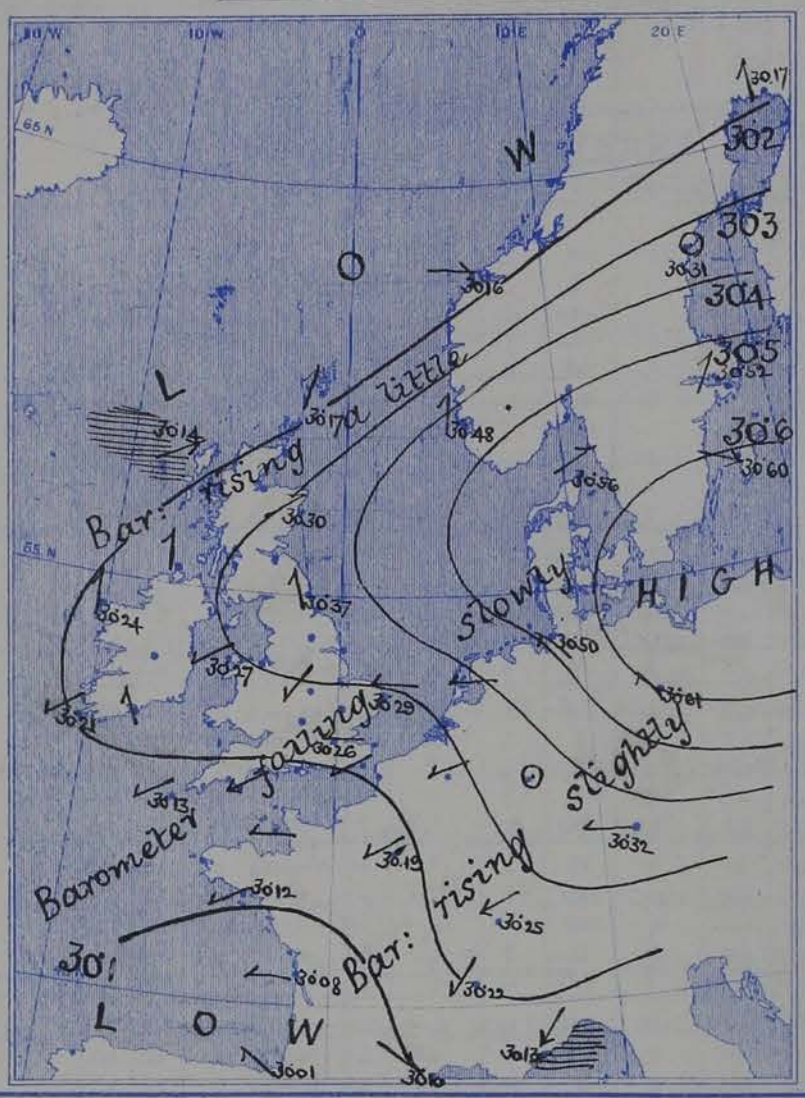
BAROMETER—Isobars are drawn for each tenth of an inch.

WIND—Arrows shew Directions and Force, flying with the wind.

Force above 10 ⟫⟶ ; *Force 5 to 7* ⟶ ; } Calm ⊙

Force 8 to 10 ⟩⟶ ; *Force 1 to 4* ⟶ ; }

SEA—*Rough* ▤ ; *High* ▩

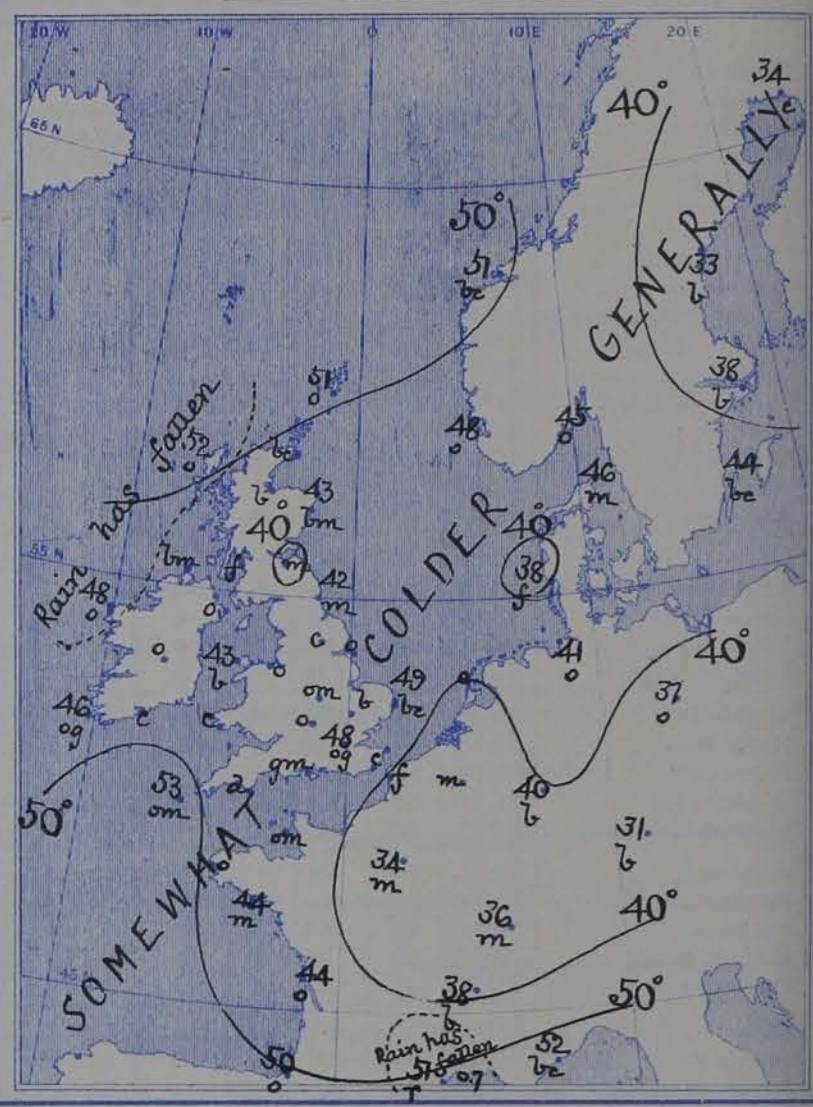


TEMPERATURE & WEATHER.

TEMPERATURE—Isotherms are drawn for each 10°.

WEATHER—Shown by Letters of the Beaufort Scale.

RAINFALL—{ *A dotted line separates areas where rain has fallen from those without rain. The fall in past 24 hours when exceeding half an inch is shown thus*—0·6.



VALUES FOR PRESSURE, TEMPERATURE, RAINFALL, AND BRIGHT SUNSHINE IN THE MONTH OF NOVEMBER.

STATIONS.	PRESSURE AT 8 A.M. Means, 1871—95.	TEMPERATURE OF AIR. 1871-95. Means of				Absolute Extremes.				RAINFALL Means, 1866—95.	BRIGHT SUNSHINE. Means, 1881—95.	
		Dry Bulb 8 a.m.	Wet Bulb 8 a.m.	Daily Maximum.	Daily Minimum.	Maximum	Years.	Minimum.	Years.		Hours.	Per cent. of possible.
	(*Inches.*)	°	°	°	°	°		°		(*Inches.*)		
Sumburgh Head	29·693	42·3	40·6	45·8	38·2	55	1890	21	1875	4·14	—	—
Stornoway	29·703	42·0	41·0	46·4	37·1	56	1881	20	1880	4·80	42·1	18
Wick	29·728	41·6	40·1	46·2	36·4	58	1885, 89	15	1884	2·93	—	—
Nairn	29·743	40·0	38·4	45·7	35·5	61	1885, 94	18	1880	2·14	—	—
Aberdeen	29·772	40·7	38·9	46·3	36·7	62	1872, 89	15	1880, 84	3·16	54·7	23
Leith	29·798	41·8	40·1	48·2	37·1	64	1872	18	1885	2·05	—	—
Shields	29·824	42·4	40·8	47·6	38·0	62	1881, 94	20	1880	2·39	—	—
Spurn Head	29·854	43·5	42·2	47·1	40·4	61*	1894, 95	28*	1884	2·28	—	—
York	29·859	40·9	39·7	47·7	36·6	62	1894, 95	14	1871	2·21	39·7	16
Loughborough	29·888	40·7	39·5	48·4	36·7	63*	1881, 93, 94, 95	19*	1887, 93	2·21	—	—
Ardrossan	29·799	43·3	41·6	47·9	39·2	69	1872	21	1880	3·78	—	—
Malin Head	29·755	43·9	42·0	48·0	40·9	—	—	—	—	—	—	—
Belmullet	29·799	45·3	43·3	49·4	41·5	—	—	—	—	5·92	—	—
Donaghadee	29·819	43·4	42·3	48·5	39·4	60	1894	27	1878, 83	3·10	—	—
Holyhead	29·845	45·9	44·2	49·8	42·9	62	1881	29	1880	3·96	—	—
Liverpool	29·862	42·7	40·9	48·0	39·7	63	1872	22	1880	2·81	—	—
Parsonstown	29·852	41·8	40·3	49·1	37·0	62	1874	20	1890	2·86	63·1	25
Valencia	29·867	47·4	45·5	52·3	42·9	63	1881	27	1890	5·63	63·8	25
Roche's Point	29·869	46·2	44·6	51·2	42·0	61	1875	27	1890	4·79	—	—
Pembroke	29·871	47·1	45·4	50·3	43·6	58	1884, 95	28	1890	4·04	58·8	23
Scilly	29·898	50·1	48·1	52·6	46·6	60	1875, 81	29	1890	3·80	—	—
Prawle Point	29·917	46·4	44·9	51·2	42·1	61*	1881	19*	1890	3·26	—	—
Jersey	29·937	48·0	46·0	52·3	44·3	64	1874, 81	16	1890	4·19	70·9	26
Hurst Castle	29·912	45·3	44·3	50·7	41·0	66	1874	20	1890	3·11	—	—
Dover	29·904	44·7	43·3	49·7	40·9	61	1895	17	1890	3·30	—	—
LONDON	29·910	42·5	41·1	49·6	38·3	65	1894	19	1879	2·31	29·5†	11†
Oxford	29·908	41·4	40·2	48·5	37·7	68	1881	19	1871, 87	2·42	55·4	22
Cambridge	29·901	41·0	40·1	48·9	36·0	65	1895	15	1890	2·07	61·7	24
Yarmouth	29·879	43·4	42·2	47·7	39·2	60	1895	23	1890	2·92	—	—

* Extremes of temperature at these Stations are from observations made during the 15 years—1881-95. † The Sunshine values are for Westminster.

GENERAL SITUATION AT 8 A.M.

PRESSURE

Highest, 30·6 in: and upwards over the Baltic, North Germany, and the south of Sweden; 30·2 in: and upwards in an anticyclone embracing nearly the whole of Western Europe.
Lowest, 29·9 in: and less, over the southern parts of the Spanish Peninsula.
Gradient slight generally, but moderate over Norway and the adjacent parts of the North Sea.
Barometer rising in the north of our Islands, but inclined to fall in most other localities.

TEMPERATURE

Highest, (1) 53° at Scilly; (2) 52° at Stornoway and 51° at Dunbugh Head and Christiansund; (3) 52° at Nice and Lisbon, and 51° at Perpignan
Lowest, (1) 31° at Munich, 33° at Brussels and 34° at Paris; (2) 33° at Hernösands and 34° at Haparanda; (3) 37° at Leith.
During yesterday the thermometer rose to 55° and upwards at several of our western and northern stations, and to 58° at Nairn and Scilly. On the south and east coasts of England the maximum readings were very little above 50°

WIND

E$^{\frac{1}{2}}$ or NE$^{\frac{1}{2}}$ over England, the south of Ireland, France, Germany and the Netherlands; light or moderate in force generally; but fresh on some of the more exposed parts of our south and southeast coasts, and blowing a moderate gale at Nice.
S$^{\frac{1}{2}}$ or SW$^{\frac{1}{2}}$ over the northern parts of the United Kingdom and also in Scandinavia.

WEATHER

Fine in places, but cloudy or dull over Western Europe as a whole.
Fine in Sweden and also in South Germany.
A little rain fell yesterday at Stornoway and Belmullet, and a larger quantity at Perpignan. In all other parts of our area the weather remained fine.

SEA

Moderate to smooth generally, but rather rough at Stornoway, and rough at Nice.

PROBABLE CHANGES IN SYSTEM NOW PREVALENT

There are at present no signs of any important change in the distribution of barometrical pressure

FORECASTS

For the 24 hours ending at NOON on 20th Nov^{r} 1898

DISTRICTS.		FORECASTS.
0	SCOTLAND NORTH	SW$^{\frac{1}{2}}$ winds, moderate or fresh; cloudy, rain locally.
1	SCOTLAND EAST	Varying S$^{\frac{1}{2}}$ breezes; fair generally, but some fog or mist.
2	ENGLAND N.E.	
3	ENGLAND EAST	E$^{\frac{1}{2}}$ winds, light or moderate, fair generally but cloudy or misty in places. Colder.
4	MIDLAND COUNTIES	
5	ENGLAND SOUTH	
6	SCOTLAND WEST	E$^{\frac{1}{2}}$ and NE$^{\frac{1}{2}}$ winds, light; fair generally, but some fog or mist.
7	ENGLAND N.W.	
8	ENGLAND S.W.	E$^{\frac{1}{2}}$ winds, moderate or fresh; fair generally.
9	IRELAND NORTH	S$^{\frac{1}{2}}$ and SE$^{\frac{1}{2}}$ winds, light; fair generally.
10	IRELAND SOUTH	Same as Nos 6 and 7.
	WARNINGS	NONE ISSUED.

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

YESTERDAY'S 2 P.M. REPORTS.

	BAR.	THER. Dry.	THER. Wet.	WIND. Direc.	F.	WEA.	SEA.		BAR.	THER. Dry.	THER. Wet.	WIND. Direc.	F.	WEA.	SEA.
Skudesnaes ...	30·46	46	45	SE	2	c	2	Valencia	30·17	56	53	SSE	4	c	4
Sumburgh Head	30·18	51	49	S	4	c	5	Scilly	30·20	54	51	ENE	5	c	3
Stornoway	30·07	53	51	WSW	6	r	6	Jersey	30·22	49	47	ENE	5	c	4
Aberdeen	30·27	52	50	SSW	3	cm	2	Hurst Castle ...	30·27	54	49	ENE	4	b	3
Shields	30·37	52	51	SW	2	of	2	Dungeness ...	30·28	51	49	ENE	5	b	5
Ardrossan	30·28	52	52	SSE	2	o	2	North Foreland	30·33	50	48	E	4	b	4
Malin Head ...	30·15	54	52	SSW	6	bc	6	London (Westminster)	30·33	52	47	ENE	3	bc	*
Belmullet	30·14	55	52	SSW	4	bc	*	Yarmouth ...	30·36	49	47	E	4	c	4
Holyhead	30·29	55	52	S	2	cm	1	Rochefort ...	30·06	56	52	E	4	b	*

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

Weather in morning fair or fine over the southeastern parts of England, as well as in the northeast of Scotland, and most parts of Scandinavia and Finland. Cloudy or dull elsewhere, with mist or fog in many places, and rain at Perpignan and Barcelona, as well as at St. Petersburg. Slight rain falling later on our own extreme northwest coast; no important change occurring elsewhere.

Temperature fallen over England and the western and central parts of the Continent generally, but risen elsewhere. Morning readings highest 70° at Malta, 62° at Algiers, 61° at Palermo and 58° at Lampedusa; above 55° at most of the Mediterranean stations, and very little below it in the extreme southwest of our Islands. Lowest 26° at Kharkov, 28° at Kiev, 32° at Hermannstadt, and 33° at Odessa; below 40° in many parts of Eastern and central Europe. Rising later to 55° and upwards at many of our own western and northern stations, and also in the west and south of France; reaching 61° at Brest and Lisbon. Frost occurring over Central England at night.

Wind E^ly (NE to SE) over the south of England and the central and southern part of the Continent generally; light or moderate in force in most places, but strong to a gale over northern Italy and the extreme south of France. Light to moderate from the S^th or SW^ly over the northern part of our Islands. W^ly (SW to NW) over Scandinavia and northern Russia, with a strong gale at Kuopio. Subsequently increasing to a strong breeze from the SW^ly in the Hebrides, and shifting to the SE^ly in the west of Norway.

Barometer highest 30·6 in: and upwards in the south of Russia; 30·2 in: and upwards in an anticyclone embracing all but the extreme northern and southern part of Europe. Lowest 29·4 in: and less in a deep depression passing eastwards across the Kola Peninsula; 29·8 in: in a shallower disturbance over Tunis and the neighbouring part of the Mediterranean. Northern depression continuing to move eastwards during day; new disturbance beginning to appear later to the northwestward of our Islands.

EXPLANATION OF THE 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.

N.B.—The morning observations are now made at 8 a.m. in the British Islands, Belgium, Germany, Sweden, and Norway, at 7 a.m. in France, and at 9 a.m. in Spain and Portugal. The evening observations are made at 8 p.m. at Oxford, but at 6 p.m. at the other stations in the British Islands and in France; at 8 p.m. in Sweden, Norway and Germany. The time at each Station is the Standard Time of its Country.

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DAILY WEATHER REPORT

for 8 a.m. on Sunday 20th November, 1898.

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

	STATIONS.	YESTERDAY EVENING. (See note at bottom of last page.) Barom. At 32° and M.S.L.	Temp. Dry Bulb.	Wind. Direc.	Wind. Force (0 to 12.)	Weather	THIS MORNING. (See note at bottom of last page.) Barometer. At 32° Fahr. and M. S. L.	Barometer. Change since Yesterday.	Temperature. Dry Bulb.	Temperature. Wet Bulb.	Temperature. Change since Yesterday.	Wind. Direc.	Wind. Force (0 to 12.)	Weather.	Sea (0 to 9.)	PAST 24 HOURS. Weather.	Hours of Bright Sunshine.	Temp. Max.	Temp. Min.	Rainfall.
		Ins.	°				Ins.	Ins.	°	°	°							°	°	Ins.
Scandinavia	Haparanda ...	29.82	40	W	1	b	30.01	-.16	31	24	+ 3	W	4	b	8	b	*	43	25	—
	Hernösand ...	30.23	30	Z	0	b	30.25	-.06	30	24	+ 3	S	2	c	*	b	*	36	28	—
	Stockholm ...	30.40	46	SW	2	c	30.31	-.15	41	39	+ 3	SW	4	c	*	c	*	48	34	—
	Wisby	30.54	44	SSW	4	c	30.46	-.14	40	34	- 4	WSW	4	c	*	c	*	48	34	—
	Karlstad ...	30.46	42	WSW	6	c	30.35	-.12	41	39	- 3	Z	0	c	*	c	*	*	*	—
	Bodö																*			
	Christiansund ...	30.25	49	WSW	6	c	30.23	+.07	46	43	- 5	WSW	1	r	4	c	*	51	45	0.08
	Skudesnaes ...	30.43	47	S	2	c	30.24	-.24	43	42	- 5	SSE	4	c	3	c	*	48	43	*
	Færder (Christiania Fjord)	30.43	45	SW	5	c	30.31	-.18	41	39	- 4	S	4	c	2	c	*	48	41	—
	Skagen (The Scaw)	30.50	40	SW	3	f	30.32	-.24	42	41	- 4	S	3	m	0	f	*	48	37	—
	Fanö	30.43	39	E	3	b	30.25	-.33	36	35	- 2	E	5	c	*	b	*	41	36	—
British Islands.	Sumburgh Head	30.21	50	SSW	1	m	30.03	-.14	46	45	- 5	SSW	1	c	3	m	*	52	45	0.11
	Stornoway ...	30.21	49	W	2	d	30.02	-.12	46	45	- 6	WSW	3	c	3	c.d	0.0	52	44	0.20
	Wick	30.21	52	SW	1	b	30.01	-.21	44	42	- 5	SW	1	b	1	b	*	54	42	—
	Nairn	30.22	41	Z	0	b	30.01	-.23	42	41	- 3	WSW	1	c	1	b	*	56	31	—
	Aberdeen ...	30.26	45	S	2	bc	30.03	-.27	42	40	- 1	SW	2	og	2	bc,bc	3.3	48	42	—
	Leith	30.25	42	Z	0	bc	30.04	-.29	38	37	+ 1	S	1	m	*	bc	*	52	33	—
	Shields	30.26	46	ESE	3	c	30.06	-.31	44	41	+ 2	SW	1	omw	2	om,c	*	48	40	—
	Spurn Head ...	30.22	50	E	4	c	30.09	-.25	44	43	- 4	SW	3	c	3	c	*	50	43	—
	York	30.25	47	ESE	1	c	30.09	-.27	45	42	- 1	N	1	c	*	c	c.c	49	43	—
	Loughborough ...	30.22	46	E	1	c	30.12	-.21	44	42	- 1	SW	1	omw	*	cm,omg	*	48	44	—
	Ardrossan ...	30.21	43	NE	1	bf	30.07	-.25	38	38	- 4	NE	1	cfw	0	bf	*	48	37	—
	Malin Head ...	30.19	44	SSE	1	cm	30.06	-.17	45	44	+ 3	WSW	1	of	1	b,cm	*	47	42	—
	Belmullet ...	30.20	46	S	3	c	30.12	-.12	39	38	- 9	SE	1	b	*	c	*	50	35	—
	Donaghadee ...	30.21	48	SE	4	b	30.07	-.24	44	43	- 5	WSW	3	c	2	c	*	48	43	—
	Liverpool (Bidston)	30.22	46	ESE	3	c	30.10	-.23	42	41	+- 1	SE	1	c	?	c	*	47	40	—
	Holyhead ...	30.19	46	Z	0	of	30.08	-.19	45	47	+ 5	SSW	2	cgm	1	cm,of	*	49	41	—
	Parsonstown ...	30.19	46	Z	0	c	30.11	-.15	34	33	- 8	Z	c	f	*	b,c	5.1	49	33	—
	Valencia ...	30.14	49	ENE	3	cm	30.10	-.11	40	39	- 6	ENE	1	bcm	3	cm	0.6	50	38	—
	Roche's Point ...	30.13	48	ENE	3	m	30.11	-.12	48	47	- 1	NE	2	m	3	m	*	50	45	—
	Pembroke (St. Ann's Hd.)	30.15	47	E	3	b	30.10	-.14	51	50	+ 8	SSE	3	cg	3	c.b	0.1	51	42	—
	Scilly	30.05	50	E	3	cm	30.08	-.05	50	49	- 3	E	1	c	1	cm	0.0	57	47	—
	Prawle Point ...	30.14	47	ENE	4	c	30.14	-.04	49	48	+ 1	ENE	3	c	3	c	*	50	44	—
	Jersey (St. Aubin's)	30.12	46	ESE	3	bm	30.13	-.01	50	48	+ 7	ESE	2	cm	2	c.bm	*	50	42	—
	Hurst Castle ...	30.15	49	E	3	cm	30.15	-.05	47	46	- 1	NE	2	cm	2	cmg,cm	*	49	46	—
	Dungeness ...	30.18	46	SE	3	c	30.16	-.05	46	44	+ 3	Z	c	c	c	c.c	*	49	43	—
	North Foreland	30.21	46	ESE	4	b	30.17	-.07	44	42	- 1	SW	1	c	1	b	*	47	43	—
	London (Brixton) ...	30.21	44	E	1	c	30.15	-.08	45	43	- 3	Z	c	cg	*	cm	0.0	50	42	—
	Oxford	30.21	45	E	2	c	30.16	-.11	44	42	- 1	S	1	c	*	c	*	49	43	—
	Cambridge ...	30.21	40	ESE	1	b	30.15	-.14	42	41	- 1	SW	1	cm	*	c.b	1.6	53	36	—
	Yarmouth ...	30.19	47	SE	4	b	30.11	-.18	44	42	- 5	W	1	cfg	3	bc,b	*	50	41	—
Germany & Holland.	Cuxhaven ...	30.41	38	ESE	5	b	30.23	-.27	35	34	- 6	SSE	2	c	*	b	*	41	34	—
	Berlin	30.50	37	SE	3	c	30.36	-.25	33	32	- 4	SE	3	c	*	c	*	43	32	—
	Wiesbaden ...	*	*	*	*	*	30.28	-.08	33	32	- 7	Z	c	b	*	*	*	46	32	—
	Munich	30.28	32	E	2	b	30.28	-.04	27	27	- 4	E	2	b	*	b	*	45	27	—
	The Helder ...	30.25	42	ESE	1	b	30.19	-.25	33	32	- 7	S	1	f	c	b	*	47	30	—
Belgium.	Brussels ...	*	*	*	*	*	30.23	-.07	32	31	- 1	SSW	1	m	*	b	*	48	30	—
	Cape Gris Nez ...	?	41	S	1	m	?	?	45	45	+ 9	S	1	b	1	m	*	46	36	—
	Paris	30.21	38	ESE	1	b	30.23	+.04	30	30	- 4	NE	1	f	*	b	*	50	30	—
	Brest	30.08	47	E	1	bc	30.08	-.04	50	47	+ 8	E	1	b	2	bc	*	50	39	—
	Lorient	30.09	45	E	5	m	30.10	-.02	47	46	+ 3	E	3	bc	3	m	*	52	43	—
France &	Rochefort ...	30.08	53	E	4	bc	30.10	+.02	46	45	+ 2	E	3	b	*	bc	*	59	41	—
	Belfort	30.24	36	ENE	4	m	30.24	-.01	34	33	- 2	ENE	4	m	*	m	*	44	33	—
	Lyons	30.21	45	N	1	b	30.26	+.04	37	37	- 1	SE	1	m	*		*	?50	?35	—
	Nice	30.15	56	NE	4	c	30.23	+.10	50	45	- 2	NE	5	r	6	c	*	59	50	0.04
	Perpignan ...	30.10	55	E	3	r	30.02	-.08	52	52	+ 1	SW	2	c	*	r	*	57	51	2.88
	Biarritz ...	29.97	57	E	3	c	29.99	-.02	45	44	- 5	E	3	m	2	c	*	64	45	—
Penin-sula.	Corunna ...																*			
	Lisbon	29.97	54	NNW	3	b	30.11	+.24	52	51	+ 2	Z	c	b	*	b	*	59	52	—
	Azores (P. Delgada)	29.89	69	NNW	3	b	29.93	+.15	58	53	- 5	NW	2	bc	3	b	*	68	55	—

For Explanation of Columns, see bottom of last page. † *Received too late for Insertion in Charts on next page.*

NOTE: *The Sunshine for London given in this Table is now recorded on the tower of the Wesleyan Training College, Westminster.*

Bright Sunshine yesterday Southport 2.5 hrs;

WEATHER CHARTS

FOR Sunday, 20th November, 1898

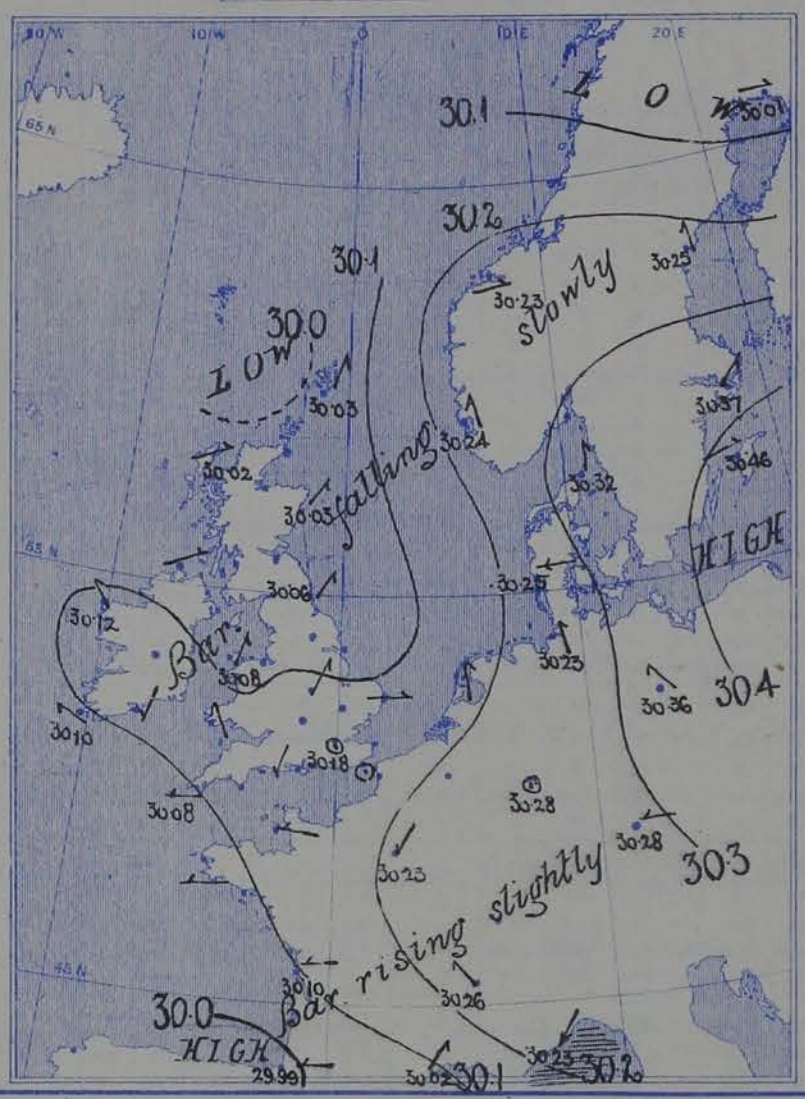
BAROMETER, WIND AND SEA.

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

WIND—Arrows shew Directions and Force, flying with the wind.

Force above 10 ⟶⟶ ; Force 5 to 7 ⟶ ; } Calm ⊙
Force 8 to 10 ⟶⟶ ; Force 1 to 4 ⟶ ; }

SEA—Rough ; High

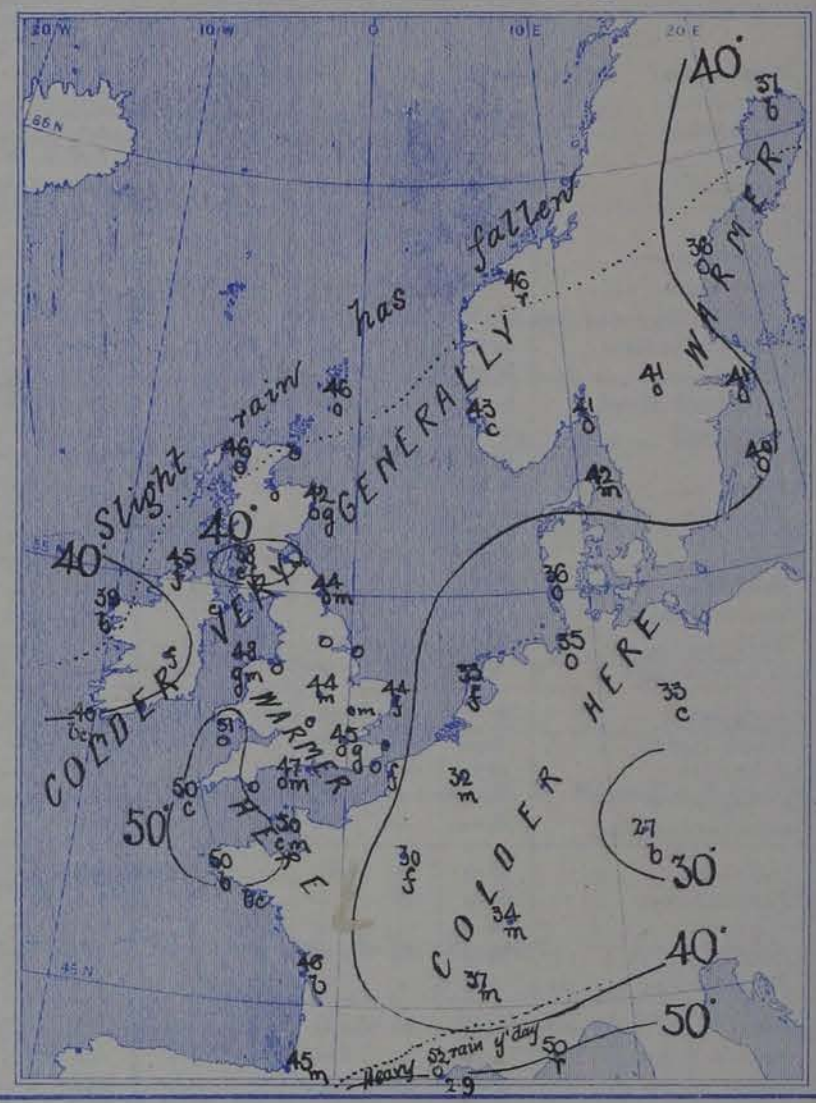


TEMPERATURE & WEATHER.

TEMPERATURE—Isotherms are drawn for each 10°.

WEATHER—Shown by Letters of the Beaufort Scale.

RAINFALL—A dotted line separates areas where rain has fallen from those without rain. The fall in past 24 hours when exceeding half an inch is shown thus—0·6.



VALUES FOR PRESSURE, TEMPERATURE, RAINFALL, AND BRIGHT SUNSHINE *IN THE MONTH OF NOVEMBER.*

STATIONS.	PRESSURE AT 8 A.M. Means, 1871—95.	TEMPERATURE OF AIR. 1871-95. Means of				Absolute Extremes.				RAINFALL. Means, 1866—95.	BRIGHT SUNSHINE. Means, 1881—95.	
		Dry Bulb 8 a.m.	Wet Bulb 8 a.m.	Daily Maximum.	Daily Minimum.	Maximum	Years.	Minimum.	Years.		Hours.	Per cent. of possible.
	(*Inches.*)	°	°	°	°	°		°		(*Inches.*)		
Sumburgh Head	29 · 693	42 · 3	40 · 6	45 · 8	38 · 2	55	1890	21	1875	4 · 14	—	—
Stornoway	29 · 703	42 · 0	41 · 0	46 · 4	37 · 1	56	1881	20	1880	4 · 80	42 · 1	18
Wick	29 · 728	41 · 6	40 · 1	46 · 2	36 · 4	58	1885, 89	15	1884	2 · 93	—	—
Nairn	29 · 743	40 · 0	38 · 4	45 · 7	35 · 5	61	1885, 94	18	1880	2 · 14	—	—
Aberdeen	29 · 772	40 · 7	38 · 9	46 · 3	36 · 7	62	1872, 89	15	1880, 84	3 · 16	54 · 7	23
Leith	29 · 798	41 · 8	40 · 1	48 · 2	37 · 1	64	1872	18	1885	2 · 05	—	—
Shields	29 · 824	42 · 4	40 · 8	47 · 6	38 · 0	62	1881, 94	20	1880	2 · 39	—	—
Spurn Head	29 · 854	43 · 5	42 · 2	47 · 1	40 · 4	61*	1894, 95	28*	1884	2 · 28	—	—
York	29 · 859	40 · 9	39 · 7	47 · 7	36 · 6	62	1894, 95	14	1871	2 · 21	39 · 7	16
Loughborough	29 · 888	40 · 7	39 · 5	48 · 4	36 · 7	63*	1881, 93, 94, 95	19*	1887, 93	2 · 21	—	—
Ardrossan	29 · 799	43 · 3	41 · 6	47 · 9	39 · 2	69	1872	21	1880	3 · 78	—	—
Malin Head	29 · 755	43 · 9	42 · 0	48 · 0	40 · 9	—	—	—	—	—	—	—
Belmullet	29 · 799	45 · 3	43 · 3	49 · 4	41 · 5	—	—	—	—	5 · 92	—	—
Donaghadee	29 · 819	43 · 4	42 · 3	48 · 5	39 · 4	60	1894	27	1878, 83	3 · 10	—	—
Holyhead	29 · 845	45 · 9	44 · 2	49 · 8	42 · 9	62	1881	29	1880	3 · 96	—	—
Liverpool	29 · 862	42 · 7	40 · 9	48 · 0	39 · 7	63	1872	22	1880	2 · 81	—	—
Parsonstown	29 · 852	41 · 8	40 · 3	49 · 1	37 · 0	62	1874	20	1890	2 · 86	63 · 1	25
Valencia	29 · 867	47 · 4	45 · 5	52 · 3	42 · 9	63	1881	27	1890	5 · 63	63 · 8	25
Roche's Point	29 · 869	46 · 2	44 · 6	51 · 2	42 · 0	61	1875	27	1890	4 · 79	—	—
Pembroke	29 · 871	47 · 1	45 · 4	50 · 3	43 · 6	58	1884, 95	28	1890	4 · 04	58 · 8	23
Scilly	29 · 898	50 · 1	48 · 1	52 · 6	46 · 6	60	1875, 81	29	1890	3 · 80	—	—
Prawle Point	29 · 917	46 · 4	44 · 9	51 · 2	42 · 1	61*	1881	19*	1890	3 · 26	—	—
Jersey	29 · 937	48 · 0	46 · 0	52 · 3	44 · 3	64	1874, 81	16	1890	4 · 19	70 · 9	26
Hurst Castle	29 · 912	45 · 3	44 · 3	50 · 7	41 · 0	66	1874	20	1890	3 · 11	—	—
Dover	29 · 904	44 · 7	43 · 3	49 · 7	40 · 9	61	1895	17	1890	3 · 30	—	—
LONDON	29 · 910	42 · 5	41 · 1	49 · 6	38 · 3	65	1894	19	1879	2 · 31	29 · 5†	11†
Oxford	29 · 908	41 · 4	40 · 2	48 · 5	37 · 7	68	1881	19	1871, 87	2 · 42	55 · 4	22
Cambridge	29 · 901	41 · 0	40 · 1	48 · 9	36 · 0	65	1895	15	1890	2 · 07	61 · 7	24
Yarmouth	29 · 879	43 · 4	42 · 2	47 · 7	39 · 2	60	1895	23	1890	2 · 92	—	—

* Extremes of temperature at these Stations are from observations made during the 15 years—1881-95.

† The Sunshine values are for Westminster.

GENERAL SITUATION AT 8 A.M.

PRESSURE

Highest, 30·4 in: over the Baltic; 30·1 in: and upwards in an anticyclone embracing all the more western and Central parts of the Continent, and extending westwards over the greater part of England and Ireland

Lowest, 30·0 in: and less, over the extreme north of Scandinavia, and also in a shallow depression over the north of Spain.

Gradients slight. Barometer rising over France and the Spanish Peninsula and also in Sweden; falling rather decidedly elsewhere.

TEMPERATURE

Highest, 54° at Lisbon, 52° at Perpignan, 51° at Pembroke, and 50° at Scilly, Jersey and Nice.

Lowest, 27° at Munich, 30° at Paris, 32° at Brussels, and 33° at the Helder, Berlin, Wiesbaden.

The maxima registered yesterday were below 50° in many parts of the United Kingdom; at Nairn, however, the thermometer rose to 56° and at Jersey to 57°.

WIND

Light from the E. (NE. to SE.) over Germany, France, and the extreme south of our Islands.

Light from the S. or SW. in all the more northern parts of our Islands, moderate from the SE. or E. on the eastern shores of the North Sea.

Moderate from between S. and W. in Sweden.

WEATHER

Dull over Western Europe, as a whole, with mist or fog in many places, and rain at Christiansund; rain is also falling at Nice.

Rain in Germany and also in the west of France.

A little rain fell yesterday in the Shetlands and Hebrides, and also in the northern parts of Scandinavia, and a large quantity (2·9 in:) at Perpignan.

SEA

Slight or smooth generally, but rough at Nice.

PROBABLE CHANGES IN SYSTEM NOW PREVALENT

FORECASTS

For the 24 hours ending at NOON on 21st Nov. 1898

DISTRICTS.		FORECASTS.
0	SCOTLAND NORTH	NONE ISSUED.
1	SCOTLAND EAST	
2	ENGLAND N.E.	
3	ENGLAND EAST	
4	MIDLAND COUNTIES	
5	ENGLAND SOUTH	
6	SCOTLAND WEST	
7	ENGLAND N.W.	NONE ISSUED.
8	ENGLAND S.W.	
9	IRELAND NORTH	
10	IRELAND SOUTH	NONE ISSUED.
	WARNINGS	

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

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

YESTERDAY'S 2 P.M. REPORTS.

	BAR.	THER. Dry.	THER. Wet.	WIND. Direc.	F.	WEA.	SEA.		BAR.	THER. Dry.	THER. Wet.	WIND. Direc.	F.	WEA.	SEA.
Skudesnaes ...	30·47	48	46	SSW	2	o	2	Valencia	30·16	50	46	ENE	1	om	3
Sumburgh Head	30·21	51	50	SSW	1	m	4	Scilly	30·06	51	49	ENE	4	m	2
Stornoway	30·20	51	50	WSW	3	o	3	Jersey	30·15	47	44	ESE	3	om	3
Aberdeen	30·28	47	45	SSW	1	bm	1	Hurst Castle ...	30·16	49	47	E	3	omg	2
Shields	30·32	46	44	S	1	om	2	Dungeness ...	30·19	47	45	ESE	3	c	3
Ardrossan	30·26	46	46	N	1	b	1	North Foreland	30·23	47	44	ESE	4	b	3
Malin Head ...	30·22	47	45	S	1	b	2	London (Westminster)	30·20	48	44	E	2	c	*
Belmullet	30·23	50	48	S	2	o	*	Yarmouth ...	30·22	49	46	ESE	5	hr	4
Holyhead	30·22	49	47	SW	1	om	0	Rochefort ...	30·06	58	55	E	4	b	*

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

Weather in morning fine at many of the northern stations in our Islands and the Continent, as well as over Central France and South Germany. Cloudy or dull in nearly all other parts of Europe, with mist or fog in many places, and rain at Perpignan and Barcelona. A little rain falling later in the Shetlands and Hebrides, and also in the northern parts of Scandinavia, and a very large quantity (2·9 in.) at Perpignan.

Temperature fallen generally, but risen in Norway and also in the south of Russia. Morning readings highest 65° at Malta, 63° at Sanguinaire and 61° at Algiers; above 55° at most of the Mediterranean stations, and above 50° in the Hebrides, the Shetlands, and the west of Norway. Lowest 21° at Hermannstadt, 28° at Ulleaborg, Riopio, and Kharkov, and 32° at Helsingfors; slightly below the freezing point in some parts of Germany and Central France. Daily maxima below 50° in many parts of the United Kingdom, but thermometer reaching 56° at Nairn and 54° at Lilly. Exceeding 55° also in the west and south of France, and touching 64° at Biarritz.

Wind E (NE to SE) over the south of our Islands, and the central and southern parts of the Continent generally; light to fresh in force in most places, but blowing a moderate gale in the extreme south of France. S or SW in the northern parts of the United Kingdom, and also in Scandinavia, but NW in Russia. No important change occurring over Western Europe during day.

Barometer highest 30·7 in. and upwards over Poland and Eastern Austria; 30·2 in. and upwards, in an anticyclone embracing all the more eastern and central parts of the Continent, and extending westwards over nearly the whole of the United Kingdom. Lowest 29·9 in. and less, in a shallow depression over the southern parts of the Spanish Peninsula; 30·1 in. and upwards over the extreme north of Russia. Barometer falling over Western Europe during day, and western portion of anticyclone beginning to give way.

EXPLANATION OF THE 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.

N.B.—The morning observations are now made at 8 a.m. in the British Islands, Belgium, Germany, Sweden, and Norway, at 7 a.m. in France, and at 9 a.m. in Spain and Portugal. The evening observations are made at 8 p.m. at Oxford, but at 6 p.m. at the other stations in the British Islands and in France; at 8 p.m. in Sweden, Norway and Germany. The time at each Station is the Standard Time of its Country.

Subscriptions both for the Daily *and* Weekly Weather Reports *may be paid, in advance, to the* Meteorological Office.

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DAILY WEATHER REPORT

for 8 a.m. on Monday, 21st November, 1898.

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

	STATIONS.	YESTERDAY EVENING. (See note at bottom of last page.)					THIS MORNING. (See note at bottom of last page.)								PAST 24 HOURS.				
		Barom.	Temp.	Wind.		Weather	Barometer.		Temperature.			Wind.		Weather.	Sea (0 to 9.)	Weather.	Hours of Bright Sunshine.	Temp.		Rainfall.
		At 32° and M.S.L.	Dry Bulb.	Direc.	Force (0 to 12.)		At 32° Fahr. and M. S. L.	Change since Yesterday.	Dry Bulb.	Wet Bulb.	Change since Yesterday.	Direc.	Force (0 to 12.)					Max.	Min.	
		Ins.	°				Ins.	Ins.	°	°	°							°	°	Ins.
Scandinavia	Haparanda ...	30·13	30	NW	0	0	29·46	-·55	34	34	- 3	S	2	r	*	0	*	41	27	0·08
	Hernösand ...	29·93	33	S	4	0	29·52	-·73	37	35	+ 1	SSW	6	0	*	0	*	41	32	-
	Stockholm ...	30·12	37	NW	0	0	29·85	-·42	40	38	- 1	SW	2	0	*	0	*	46	34	-
	Wisby	30·18	41	SSW	4	0	30·01	-·45	41	39	+ 1	WSW	6	bc	*	0	*	44	36	-
	Karlstad ...	30·04	39	WSW	2	0	29·77	-·58	43	42	+ 2	SW	4	0	*	0,r	*	*	*	-
	Bodö																*			
	Christiansund ...	29·88	44	WSW	4	r	29·59	-·64	41	40	- 5	WNW	6	r	4	r	*	46	39	0·39
	Skudesnaes ...	29·90	42	SE	6	r	29·77	-·47	43	43	0	WNW	4	r	3	0,r	*	43	39	+
	Færder (Christiania Fjord)	29·97	42	S	5	0	29·76	-·55	43	42	+ 2	WSW	4	0	4	0	*	43	39	-
	Skagen (The Scaw)	30·02	39	WSW	4	m	29·83	-·49	45	43	+ 3	WSW	4	r	0	m	*	46	37	-
	Fanö	30·04	46	SE	4	0	30·01	-·24	48	46	+ 12	SE	5	c	*	0	*	48	36	-
British Isles.	Sumburgh Head	29·79	45	W	0	0	29·81	-·22	39	37	- 1	N	2	0	3	0	*	46	38	0·09
	Stornoway ...	29·98	43	NNW	3	b	30·01	-·01	38	37	- 8	N	4	0	4	0,b	0·0	46	34	0·15
	Wick	29·90	40	W	2	c	29·93	-·08	35	34	- 9	WNW	3	c	2	c	*	45	33	0·17
	Nairn	29·95	45	W	3	0	30·02	+·01	37	36	- 5	NW	3	r	1	0	*	47	35	0·05
	Aberdeen ...	29·87	44	W	2	0	29·99	-·04	36	34	- 6	W	3	b	2	0,r	0·1	45	36	0·01
	Leith	29·94	38	WSW	2	0	30·03	-·01	39	37	+ 1	WSW	3	bcm	*	0	*	45	36	0·02
	Shields	29·99	47	SW	2	om	30·04	-·02	39	38	- 5	WSW	2	cm	2	om	*	47	37	-
	Spurn Head ...	30·07	47	SW	3	of	30·06	-·03	44	43	0	SW	3	ow	3	o,f	*	47	42	-
	York	30·06	46	N	1	0	30·07	-·02	43	41	- 2	WNW	1	c	*	0,c	0·0	47	38	0·01
	Loughborough ...	30·12	46	SSW	3	c	30·11	-·01	39	38	- 5	NNW	1	ofw	*	c,bc,of	*	43	38	-
	Ardrossan ...	29·99	42	W	0	bf	30·10	+·03	38	37	0	NNW	1	bm	1	bf	*	43	37	0·08
	Malin Head ...	30·03	46	NNW	6	r	30·10	+·04	44	41	0	NNW	6	bp	5	c,r	*	48	40	0·04
	Belmullet ...	30·16	46	N	8	bc	30·27	+·15	44	39	+ 5	N	4	bc	*	r,bc	*	49	35	0·08
	Donaghadee ...	30·04	44	WSW	3	c	30·14	+·07	40	39	- 4	WNW	4	b	2	c	*	45	38	-
	Liverpool (Bidston)	30·09	47	WSW	3	0	30·11	+·01	46	42	+ 4	NW	3	c	3	om	*	48	41	0·08
	Holyhead ...	30·09	47	NNW	3	bc	30·14	+·06	47	43	- 1	NNW	5	c	3	bc	*	53	43	0·01
	Parsonstown ...	30·13	44	W	0	0	30·26	+·15	34	33	0	W	0	bo	*	bc,o	4·8	46	32	-
	Valencia ...	30·16	49	NW	1	om	30·29	+·19	44	42	+ 4	NNE	3	cp	4	c,om	3·0	51	38	0·05
	Roche's Point ..	30·13	44	N	1	bc	30·25	+·14	43	41	- 5	N	3	b	3	bcm	*	52	40	-
	Pembroke (St. Ann's Hd.)	30·11	51	NW	2	b	30·16	+·06	47	46	- 4	NNE	4	cp	4	c,b	1·4	54	46	0·12
	Scilly	30·10	52	ENE	1	c	30·07	-·01	51	50	+ 1	N	5	r	1	c	3·1	57	48	0·04
	Prawle Point ...	30·14	53	ESE	2	0	30·08	-·06	48	47	- 1	N	3	r	3	0,r	*	56	46	0·13
	Jersey (St. Aubin's)	30·16	54	W	0	bm	30·06	-·07	50	49	0	SW	2	oamp	2	b,bm,o	*	59	45	0·01
	Hurst Castle ...	30·14	52	NNE	1	cm	30·06	-·09	50	49	+ 3	NE	2	gmr	1	cm	*	55	47	0·05
	Dungeness ...	30·16	51	SSW	4	b	30·07	-·09	53	51	+ 7	SSE	3	0	3	ob	*	55	45	-
	North Foreland	30·21	49	S	3	c	30·09	-·08	50	50	+ 6	SSW	2	0	1	o,c	*	50	43	0·01
	London (Brixton) ...	30·16	45	SW	1	ogm	30·10	-·08	47	46	+ 2	W	0	ogfp	*	oap,c,p	0·0	49	43	0·05
	Oxford	30·17	44	S	2	o	30·11	-·05	44	44	0	W	0	fggfgr	*	c	*	50	43	0·03
	Cambridge ...	30·16	45	SW	1	b	30·10	-·05	43	43	+ 1	W	0		*	o,b	0·8	51	40	-
	Yarmouth ...	30·11	46	SW	1	cm	30·06	-·05	44	43	0	W	2		3	cm	*	48	41	-
Germany & Holland.	Cuxhaven ...	30·15	36	SSW	1	c	30·09	-·14	40	40	+ 5	SW	2	m	*	c	*	41	34	-
	Berlin	30·24	37	SSE	2	b	30·23	-·13	34	33	+ 1	SSW	1	0	*	b	*	43	33	-
	Wiesbaden ...	*	*	*	*	*	30·23	-·05	30	30	- 3	E	1	bc	*	*	*	41	30	-
	Munich... ..	30·27	33	W	0	b	30·21	-·07	29	29	+ 2	E	2	b	*	b	*	46	27	-
	The Helder ...	30·13	49	WSW	3	c	30·07	-·06	44	43	+ 11	S	1	r	1	c	*	52	33	0·04
Belgium.	Brussels ...	*	*	*	*	*	30·14	-·09	44	41	+ 12	SE	1	0	*	0	*	46	32	-
	Cape Gris Nez...	?	47	S	2	c	?	?	49	45	+ 4	SSE	1	m	1	c	*	49	43	-
	Paris	30·23	43	W	0	bc	30·13	-·10	41	41	+ 11	SE	5	b	*	bc	*	51	30	-
	Brest	30·15	55	E	1	c	30·14	+·06	55	54	+ 5	S	1	0	1	c	*	57	39	-
	Lorient... ...	30·14	54	ESE	2	b	30·08	-·02	48	48	+ 1	E	1	0	3	b	*	61	46	-
France &	Rochefort ...	30·08	57	E	2	0	30·08	-·02	54	53	+ 8	SW	1	0	*	b,o	*	64	43	-
	Belfort	30·26	40	ENE	3	m	30·19	-·05	30	30	- 4	E	2	m	*	m	*	52	28	-
	Lyons	30·25	44	NNW	1	b	30·18	-·08	40	40	+ 3	E	1	b	*	b	*	50	37	-
	Nice	30·19	52	W	0	0	30·09	-·14	50	46	0	W	0	0	4	0	*	55	48	0·04
	Perpignan ...	30·13	58	E	2	0	30·15	+·13	54	53	+ 2	NE	2	0	*	0	*	59	51	0·39
	Biarritz ...	30·04	55	S	2	0	30·07	+·08	57	55	+ 12	S	2	0	2	0	*	57	45	-
Peninsula.	Corunna ...																*			
	Lisbon	30·19	55	NNW	3	bc	30·21	+·10	58	57	+ 4	NE	1	0	*	bc	*	63	48	-
	Azores (P. Delgada)	29·99	59	NNW	1	c	30·05	+·12	60	56	+ 2	N	3	c	3	c	*	66	57	-

For Explanation of Columns, see bottom of last page. † *Received too late for Insertion in Charts on next page.*

NOTE: *The Sunshine for London given in this Table is now recorded on the tower of the Wesleyan Training College, Westminster.*

Bright Sunshine yesterday Southport 0·0 hrs;

WEATHER CHARTS

FOR Monday, 21ST November, 1898

BAROMETER, WIND AND SEA.

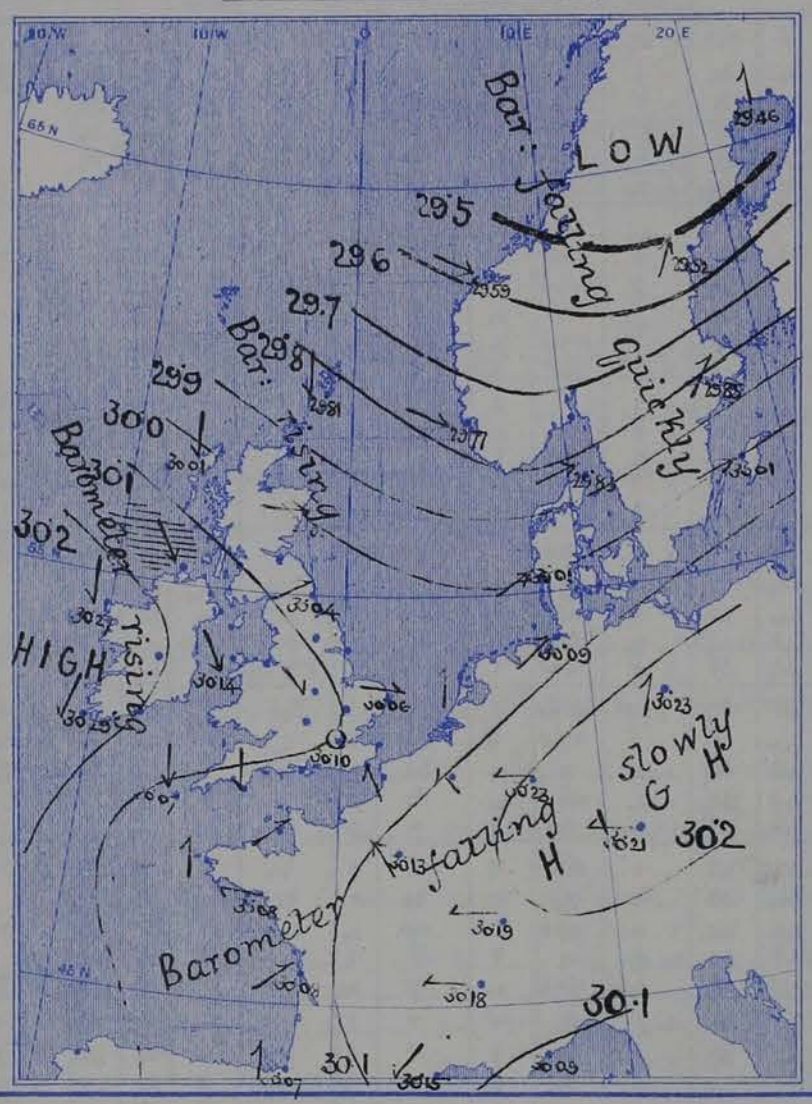
BAROMETER—Isobars are drawn for each tenth of an inch.

WIND—Arrows shew Directions and Force, flying with the wind.

Force above 10 ⟶⟶ ; *Force 5 to 7* ⟶ ; } Calm ⊙

Force 8 to 10 ⟶ ; *Force 1 to 4* ⟶ ; }

SEA—Rough ▤ ; *High* ▦

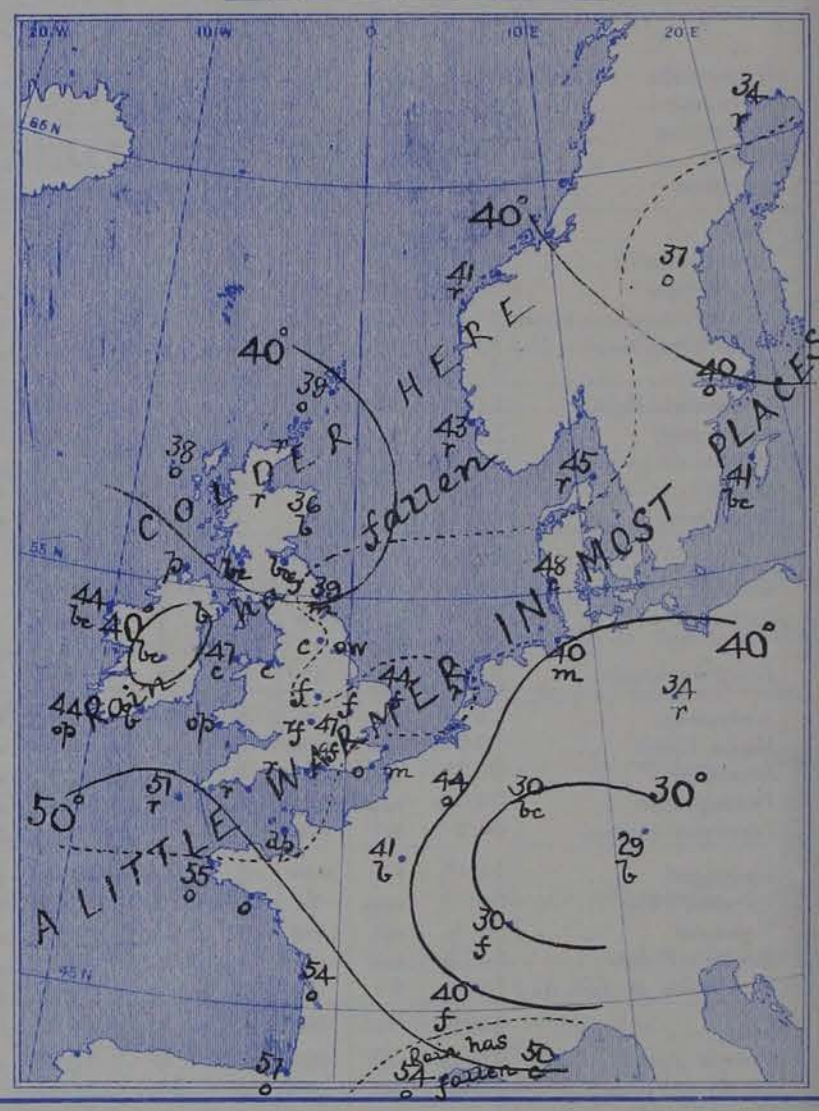


TEMPERATURE & WEATHER.

TEMPERATURE—Isotherms are drawn for each 10°.

WEATHER—Shown by Letters of the Beaufort Scale.

RAINFALL—A dotted line separates areas where rain has fallen from those without rain. The fall in past 24 hours when exceeding half an inch is shown thus—0·6.



VALUES FOR PRESSURE, TEMPERATURE, RAINFALL, AND BRIGHT SUNSHINE IN THE MONTH OF NOVEMBER.

STATIONS.	PRESSURE AT 8 A.M. Means, 1871—95.	TEMPERATURE OF AIR. 1871-95. Means of				Absolute Extremes.				RAINFALL. Means, 1866—95.	BRIGHT SUNSHINE. Means, 1881—95.	
		Dry Bulb 8 a.m.	Wet Bulb 8 a.m.	Daily Maximum.	Daily Minimum.	Maximum	Years.	Minimum.	Years.		Hours.	Per cent. of possible.
	(*Inches.*)	°	°	°	°	°		°		(*Inches.*)		
Sumburgh Head	29 · 693	42 · 3	40 · 6	45 · 8	38 · 2	55	1890	21	1875	4 · 14	—	—
Stornoway	29 · 703	42 · 0	41 · 0	46 · 4	37 · 1	56	1881	20	1880	4 · 80	42 · 1	18
Wick	29 · 728	41 · 6	40 · 1	46 · 2	36 · 4	58	1885, 89	15	1884	2 · 93	—	—
Nairn	29 · 743	40 · 0	38 · 4	45 · 7	35 · 5	61	1885, 94	18	1880	2 · 14	—	—
Aberdeen	29 · 772	40 · 7	38 · 9	46 · 3	36 · 7	62	1872, 89	15	1880, 84	3 · 16	54 · 7	23
Leith	29 · 798	41 · 8	40 · 1	48 · 2	37 · 1	64	1872	18	1885	2 · 05	—	—
Shields	29 · 824	42 · 4	40 · 8	47 · 6	38 · 0	62	1881, 94	20	1880	2 · 39	—	—
Spurn Head	29 · 854	43 · 5	42 · 2	47 · 1	40 · 4	61*	1894, 95	28*	1884	2 · 28	—	—
York	29 · 859	40 · 9	39 · 7	47 · 7	36 · 6	62	1894, 95	14	1871	2 · 21	39 · 7	16
Loughborough	29 · 888	40 · 7	39 · 5	48 · 4	36 · 7	63*	1881, 93, 94, 95	19*	1887, 93	2 · 21	—	—
Ardrossan	29 · 799	43 · 3	41 · 6	47 · 9	39 · 2	69	1872	21	1880	3 · 78	—	—
Malin Head	29 · 755	43 · 9	42 · 0	48 · 0	40 · 9	—	—	—	—	—	—	—
Belmullet	29 · 799	45 · 3	43 · 3	49 · 4	41 · 5	—	—	—	—	5 · 92	—	—
Donaghadee	29 · 819	43 · 4	42 · 3	48 · 5	39 · 4	60	1894	27	1878, 83	3 · 10	—	—
Holyhead	29 · 845	45 · 9	44 · 2	49 · 8	42 · 9	62	1881	29	1880	3 · 96	—	—
Liverpool	29 · 862	42 · 7	40 · 9	48 · 0	39 · 7	63	1872	22	1880	2 · 81	—	—
Parsonstown	29 · 852	41 · 8	40 · 3	49 · 1	37 · 0	62	1874	20	1890	2 · 86	63 · 1	25
Valencia	29 · 867	47 · 4	45 · 5	52 · 3	42 · 9	63	1881	27	1890	5 · 63	63 · 8	25
Roche's Point	29 · 869	46 · 2	44 · 6	51 · 2	42 · 0	61	1875	27	1890	4 · 79	—	—
Pembroke	29 · 871	47 · 1	45 · 4	50 · 3	43 · 6	58	1884, 95	28	1890	4 · 04	58 · 8	23
Scilly	29 · 898	50 · 1	48 · 1	52 · 6	46 · 6	60	1875, 81	29	1890	3 · 80	—	—
Prawle Point	29 · 917	46 · 4	44 · 9	51 · 2	42 · 1	61*	1881	19*	1890	3 · 26	—	—
Jersey	29 · 937	48 · 0	46 · 0	52 · 3	44 · 3	64	1874, 81	16	1890	4 · 19	70 · 9	26
Hurst Castle	29 · 912	45 · 3	44 · 3	50 · 7	41 · 0	66	1874	20	1890	3 · 11	—	—
Dover	29 · 904	44 · 7	43 · 3	49 · 7	40 · 9	61	1895	17	1890	3 · 30	—	—
LONDON	29 · 910	42 · 5	41 · 1	49 · 6	38 · 3	65	1894	19	1879	2 · 31	29 · 5†	11†
Oxford	29 · 908	41 · 4	40 · 2	48 · 5	37 · 7	68	1881	19	1871, 87	2 · 42	55 · 4	22
Cambridge	29 · 901	41 · 0	40 · 1	48 · 9	36 · 0	65	1895	15	1890	2 · 07	61 · 7	24
Yarmouth	29 · 879	43 · 4	42 · 2	47 · 7	39 · 2	60	1895	23	1890	2 · 92	—	—

* Extremes of temperature at these Stations are from observations made during the 15 years—1881-95. † The Sunshine values are for Westminster.

GENERAL SITUATION AT 8 A.M.

PRESSURE

Highest, 30·2 ins: and upwards, in an anticyclone lying over Germany and also in another system spreading over Iceland from the Atlantic.
Lowest, 29·5 ins: and less, in a large depression over the north of Scandinavia.
Gradients slight generally, but moderate over the south of Sweden.
Barometer rising in the west and north of our Islands, but falling elsewhere,—quickly in Scandinavia.

TEMPERATURE

Highest, 58° at Lisbon, 57° at Biarritz, 55° at Brest, 54° at Rochefort and Perpignan, and 53° at Dungeness.
Lowest, (1) 29° at Munich, and 30° at Wiesbaden and Belfort; (2) 34° at Parsonstown and 35° at Wick; (3) 34° at Haparanda and 37° at Hernösand.
The maxima registered yesterday were below 50° at all our more northern stations; in many parts of Scotland the thermometer did not exceed 45°.

WIND

Light to fresh from the N. or NW. on all our western and extreme northern coasts, but calm or S. in the southeast of England, and also in the west and north of France.
Light from the W. or SW. on our east coasts, and moderate to strong from the same quarters in Scandinavia and Denmark.
E. over South Germany and Central France.

WEATHER

Cloudy or dull over Western Europe as a whole, with fog over the eastern and central parts of England, and also in some parts of Central France.
Rain is falling in the extreme south of England and also in the north of Scotland and the west of Norway.
Fair at several of the Irish stations, as well as in the east of Scotland.
Since yesterday morning a little rain has fallen in many parts of the United Kingdom.

SEA

Slight or smooth generally, but rather rough at Malin Hd.

PROBABLE CHANGES IN SYSTEM NOW PREVALENT

The new anticyclone, which has appeared over Ireland is spreading eastwards, and improving weather is therefore probable in our southern and extreme northern Districts.

FORECASTS

For the 24 hours ending at NOON on 22ND NOV. 1898

DISTRICTS.		FORECASTS.
0	SCOTLAND NORTH	NW. and N. winds, moderate or fresh; changeable, some cold showers.
1	SCOTLAND EAST	
2	ENGLAND N.E.	W. to NW. winds, light; changeable, some cold showers.
3	ENGLAND EAST	Variable breezes, finally N.; dull at first, with some fog and rain, but improving later.
4	MIDLAND COUNTIES	
5	ENGLAND SOUTH	
6	SCOTLAND WEST	N. and NW. winds, moderate, fair generally, but local showers.
7	ENGLAND N.W.	
8	ENGLAND S.W.	N. winds, moderate; some rain at first, then fair.
9	IRELAND NORTH	Same as Nos 6 and 7.
10	IRELAND SOUTH	
	WARNINGS	NONE ISSUED

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

YESTERDAY'S 2 P.M. REPORTS.

	BAR.	THER. Dry.	THER. Wet.	WIND. Direc.	F.	WEA.	SEA.
Skudesnaes ...	30·08	42	40	SSE	6	o	4
Sumburgh Head							
Stornoway	29·98	45	44	NNW	4	r	4
Aberdeen							
Shields							
Ardrossan							
Malin Head ...	30·01	48	47	NNW	5	c	2
Belmullet	30·11	47	46	N	4	r	*
Holyhead							
Valencia							
Scilly ...							
Jersey	30·16	57	53	ESE	3	b	3
Hurst Castle ...							
Dungeness ...	30·16	51	50	SSW	3	c	2
North Foreland	30·18	49	47	WSW	1	o	1
London (Westminster)							*
Yarmouth ...							
Rochefort ...	30·10	64	54	E	1	b	*

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

Continental Information not received.

SUMMARY OF CHANGES IN THE WEATHER OVER EUROPE FROM THE 13TH TO THE 19TH NOV: 1898.

At the commencement of the time, when a large anticyclone lay over the eastern parts of Europe, the weather in most of the western countries was affected by a shallow depression which had advanced eastwards across our Islands at the close of the previous week, and which lay on the 13th over the east of England. In the rear of this disturbance the wind blew with the force of a gale from the N.W. on many parts of our own western coasts, the weather being mostly fine over the United Kingdom, but dull and unsettled over the western parts of the Continent, and especially in the south of France, where thunderstorms and very heavy rain occurred on the 13th.

On reaching the North Sea, however, the depression filled up, the anticyclone spreading at the same time over all but the extreme northern and southern parts of Europe. The weather was therefore, for the most part fair and dry, with, however, a good deal of fog and mist, and with slight rain in many parts of the United Kingdom, especially on the 15th and 16th, when some shallow depressions were developed over our Islands. In the more northern countries the weather during the latter part of the week was affected by a deep cyclonic system which advanced from the Atlantic and which travelled eastwards across the extreme northern parts of Scandinavia and Russia on the 16th and 17th. This disturbance occasioned strong gales from the W.N.W. (SW to NW) in many parts of northern Europe, with considerable falls of rain or snow in places. Over southern Europe and the Mediterranean the conditions were influenced by a shallow depression which spread over from Algeria, the disturbance occasioning heavy rain in places; at Perpignan the fall on the 19th amounted to as much as 2·9 in:.

EXPLANATION OF THE 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.

N.B.—The morning observations are now made at 8 a.m. in the British Islands, Belgium, Germany, Sweden, and Norway, at 7 a.m. in France, and at 9 a.m. in Spain and Portugal. The evening observations are made at 8 p.m. at Oxford, but at 6 p.m. at the other stations in the British Islands and in France; at 8 p.m. in Sweden, Norway and Germany. The time at each Station is the Standard Time of its Country.

Subscriptions both for the Daily *and* Weekly Weather Reports *may be paid, in advance, to the* Meteorological Office.

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DAILY WEATHER REPORT

for 8 a.m. on Tuesday 22nd November, 1898.

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

	STATIONS.	YESTERDAY EVENING. (See note at bottom of last page.)					THIS MORNING. (See note at bottom of last page.)								PAST 24 HOURS.				
		Barom.	Temp.	Wind.		Weather	Barometer.		Temperature.			Wind.		Weather.	Sea (0 to 9.)	Weather.	Hours of Bright Sunshine.	Temp.		Rainfall.
		At 32° and M.S.L.	Dry Bulb.	Direc.	Force (0 to 12.)		At 32° Fahr. and M. S. L.	Change since Yesterday.	Dry Bulb.	Wet Bulb.	Change since Yesterday.	Direc.	Force (0 to 12.)					Max.	Min.	
		Ins.	°				Ins.	Ins.	°	°	°							°	°	Ins.
Scandinavia.	Haparanda ...	29.34	32	E	0	0	29.39	−.07	24	24	− 10	NW	2	0	*	0	*	36	24	0.12
	Hernösand ...	29.52	36	W	2	0	29.65	+.13	31	28	− 6	W	2	0	*	0	*	39	31	—
	Stockholm ...	29.74	43	SW	2	0	29.75	+.10	39	38	− 1	WSW	2	0	*	0	*	46	36	—
	Wisby	29.89	45	W	8	b	29.78	−.23	42	41	+ 1	NNW	4	r	*	b	*	45	37	0.16
	Karlstad ...	29.74	40	SW	3	b	29.77	.00	31	29	− 12	NNW	2	0	*	b	*	*	*	—
	Bodö	29.55	31	N	5	0	29.63		28	26		N	5	c	3	0	*	37	27	—
	Christiansund ...	29.73	34	NE	9	s	29.89	+.30	28	27	− 13	NE	7	s	6	s	*	41	28	0.71
	Skudesnaes ...	29.90	39	NW	4	bc	29.97	+.20	29	?	− 14	NNW	4	bc	2	bc	*	45	29	*
	Færder (Christiania Fjord)	29.76	43	W	6	bc	29.81	+.05	35	30	− 8	NNW	4	c	3	bc	*	45	35	—
	Skagen (The Scaw)	29.84	43	WNW	3	c	29.80	−.03	40	35	− 5	NNE	3	c	4	c	*	45	39	—
	Fanö	29.93	43	NW	1	r	29.85	−.16	39	37	− 9	NNW	4	0	*	r	*	48	37	0.20
British Islands.	Sumburgh Head	30.06	34	N	4	0	30.12	+.31	28	26	− 11	N	2	0	3	c. osp	*	41	26	0.01
	Stornoway ...	30.27	36	NNE	4	osp	30.21	+.20	30	29	− 8	NNW	3	osp	3	b. o	37	40	27	0.05
	Wick	30.17	33	N	4	c	30.18	+.25	31	31	− 4	N	2	bc	2	c. s	*	40	29	0.08
	Nairn	30.24	35	NW	3	bc	30.23	+.21	31	30	− 6	W	1	c	1	bc. s	*	38	26	0.03
	Aberdeen ...	30.16	35	NW	5	bcsp	30.20	+.21	31	29	− 5	NW	2	csp	3	cpq. bcsp	44	40	30	0.06
	Leith	30.14	39	WSW	3	0	30.24	+.21	30	?	− 9	WNW	3	bc	*	0	*	46	28	—
	Shields	30.08	38	NW	3	b	30.18	+.14	32	31	− 7	NW	3	c	3	bc. b. hrq	*	45	29	0.12
	Spurn Head ...	30.01	42	NNW	4	bc	30.05	−.01	37	37	− 7	N	6	chrpq	5	bcq	*	45	35	0.10
	York	30.06	39	N	2	b	30.17	+.10	31	29	− 12	NNW	2	b	*	b. p	3.2	47	30	0.06
	Loughborough ...	30.05	37	WNW	1	b	30.17	+.06	31	29	− 8	WNW	3	b	*	cm. bc. b	*	45	31	—
	Ardrossan ...	30.19	40	NNE	3	b	30.25	+.15	29	28	− 9	ENE	2	bf	1	b	*	45	28	—
	Malin Head ...	30.25	44	NNW	6	bcp	30.20	+.10	35	35	− 9	S	2	c	2	bcp. s	*	45	33	0.17
	Belmullet ...	30.36	41	N	4	bcpq	30.28	+.01	38	36	− 6	? N	3	bc	*	bc. bcpq	*	47	35	0.14
	Donaghadee ...	30.17	44	NNE	7	b	30.29	+.15	35	33	− 5	W	4	bc	2	b	*	45	34	0.11
	Liverpool (Bidston)	30.10	44	NNW	3	bc	30.25	+.14	32	30	− 14	N	2	b	3	r. b	*	46	32	0.02
	Holyhead ...	30.13	46	NW	6	criq	30.26	+.12	47	36	− 7	NE	4	bc	3	c. rhq	*	47	36	0.07
	Parsonstown ...	30.28	37	E	0	b	30.33	+.07	28	28	− 6	E	0	b	*	b	64	45	27	—
	Valencia ...	30.35	45	N	4	bcp	30.35	+.06	35	34	− 9	E	0	bc	3	bcq. bcp	26	49	33	0.08
	Roche's Point ..	30.28	43	N	4	b	30.34	+.09	37	35	− 6	NNW	3	b	3	b	*	47	31	—
	Pembroke (St. Ann's Hd.)	30.14	45	N	4	c	30.25	+.09	40	36	− 7	E	3	b	2	c	3.8	48	38	0.05
	Scilly	30.13	48	N	6	c	30.21	+.14	46	42	− 5	N	6	c	3	c. q	22	55	41	0.07
	Prawle Point ...	30.16	47	NNE	3	bc	30.17	+.09	35	34	− 13	NNE	3	bc	2	bc	*	48	34	0.04
	Jersey (St. Aubin's)	29.94	53	NNW	2	omr	30.06	.00	44	40	− 6	N	5	c	3	orgm	*	54	43	0.28
	Hurst Castle ...	29.99	45	NNE	3	om	30.09	+.03	38	35	− 12	N	4	bw	3	rm. om	*	55	36	0.52
	Dungeness ...	29.91	45	NNE	4	r	29.92	−.15	41	40	− 12	NNW	5	c	4	r	*	53	38	0.30
	North Foreland	29.94	46	NNW	5	r	29.99	−.16	45	44	− 5	NNW	7	c	4	rw	*	52	42	0.65
	London (Brixton) ...	29.99	43	N	3	orq	30.07	−.03	37	34	− 10	N	4	b	*	fgr. oq. bc	0.0	48	37	0.41
	Oxford	30.05	40	NNW	3	b	30.14	+.03	33	30	− 11	N	3	b	*	r. g. b	*	46	33	0.05
	Cambridge ...	30.01	41	N	3	0	30.08	−.02	32	31	− 11	NNW	4	b	*	0	0.0	47	31	0.14
	Yarmouth ...	29.93	45	NNW	2	r	29.97	−.09	43	40	− 1	N	6	cq	5	rw	*	46	40	0.41
Germany & Holland.	Cuxhaven ...	29.97	43	E	0	0	29.70	−.35	40	39	0	NNE	5	r	*	0. p	*	43	39	0.59
	Berlin	30.04	37	SE	2	b	29.76	−.47	29	28	− 5	SE	2	b	*	b	*	41	28	—
	Wiesbaden ...	*	*	*	*	*	29.75	−.48	33	32	+ 3	E	1	0	*	*	*	43	30	—
	Munich... ..	29.98	29	E	2	b	29.79	−.42	28	28	− 1	E	3	f	*	f	*	34	27	—
	The Helder ...	29.92	46	NNE	1	r	29.82	−.25	44	42	0	NNE	5	r	5	r	*	50	43	0.67
Belgium.	Brussels ...	*	*	*	*	*	29.77	−.37	41	41	− 3	NNE	4	r	*	r	*	50	41	0.63
	Cape Gris Nez...	?	51	NNE	4	r	?	?	46	43	− 3	NE	7	r	7	r	*	52	41	0.32
	Paris	29.90	46	NE	2	r	29.79	−.34	45	43	+ 4	NW	3	0	*	r	*	51	41	—
	Brest	30.00	50	N	4	0	30.08	−.06	42	39	− 13	? N	1	bc	3	0	*	57	39	0.12
	Lorient... ...	29.95	52	NNE	5	r	30.04	−.04	44	41	− 4	N	5	b	3	r	*	52	41	0.08
France &	Rochefort ...	29.97	53	NW	3	r	29.91	−.17	46	43	− 8	N	5	0	*	r	*	58	43	0.24
	Belfort	29.99	33	E	0	b	29.79	−.40	39	?	+ 9	E	0	r	*	b	*	42	28	0.24
	Lyons	30.01	44	S	1	0	29.79	−.39	43	43	+ 3	ENE	1	r	*	0	*	49	40	0.24
	Nice	29.96	51	E	0	b	29.78	−.31	50	47	0	E	1	0	4	b	*	57	46	—
	Perpignan ...	30.02	58	E	0	0	29.79	−.36	51	51	− 3	W	2	r	*	0	*	64	51	0.08
	Biarritz ...	30.01	58	W	3	0	29.79	−.28	56	52	− 1	NNW	6	r	4	0	*	61	54	0.47
Peninsula.	Corunna ...																*			
	Lisbon	30.08	55	S	1	r	29.97	−.24	52	51	− 6	NNE	4	r	*	r	*	55	50	0.55
	Azores (P. Delgada)	30.17	62	E	3	0	30.21	+.16	61	56	+ 1	ENE	4	c	4	0	*	64	61	—

For Explanation of Columns, see bottom of last page. † *Received too late for Insertion in Charts on next page.*

NOTE: *The Sunshine for London given in this Table is now recorded on the tower of the Wesleyan Training College, Westminster.*

Bright Sunshine yesterday Southport 3.1 hrs;

WEATHER CHARTS

FOR Tuesday, 22nd November, 1898

BAROMETER, WIND AND SEA.

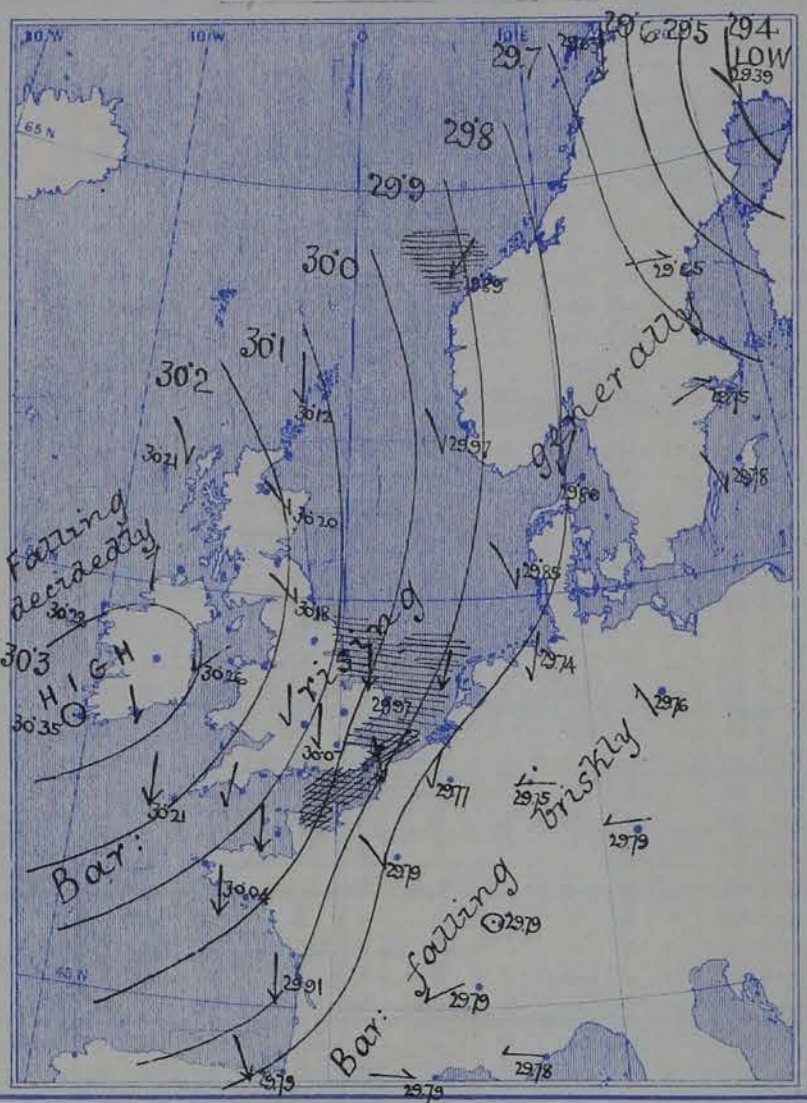
BAROMETER—Isobars are drawn for each tenth of an inch.

WIND—Arrows shew Directions and Force, flying with the wind.

Force above 10 ⟶⟶ ; Force 5 to 7 ⟶ ; } Calm ⊙

Force 8 to 10 ⟶ ; Force 1 to 4 ⟶ ; }

SEA—Rough ▤ ; High ▩



TEMPERATURE & WEATHER.

TEMPERATURE—Isotherms are drawn for each 10°.

WEATHER—Shown by Letters of the Beaufort Scale.

RAINFALL—A dotted line separates areas where rain has fallen from those without rain. The fall in past 24 hours when exceeding half an inch is shown thus—0·6.

VALUES FOR PRESSURE, TEMPERATURE, RAINFALL, AND BRIGHT SUNSHINE IN THE MONTH OF NOVEMBER.

STATIONS.	PRESSURE AT 8 A.M. Means, 1871—95.	TEMPERATURE OF AIR. 1871-95. Means of				Absolute Extremes.				RAINFALL. Means, 1866—95.	BRIGHT SUNSHINE. Means, 1881—95.	
		Dry Bulb 8 a.m.	Wet Bulb 8 a.m.	Daily Maximum.	Daily Minimum.	Maximum	Years.	Minimum.	Years.		Hours.	Per cent. of possible.
	(Inches.)	°	°	°	°	°		°		(Inches.)		
Sumburgh Head	29·693	42·3	40·6	45·8	38·2	55	1890	21	1875	4·14	—	—
Stornoway	29·703	42·0	41·0	46·4	37·1	56	1881	20	1880	4·80	42·1	18
Wick	29·728	41·6	40·1	46·2	36·4	58	1885, 89	15	1884	2·93	—	—
Nairn	29·743	40·0	38·4	45·7	35·5	61	1885, 94	18	1880	2·14	—	—
Aberdeen	29·772	40·7	38·9	46·3	36·7	62	1872, 89	15	1880, 84	3·16	54·7	23
Leith	29·798	41·8	40·1	48·2	37·1	64	1872	18	1885	2·05	—	—
Shields	29·824	42·4	40·8	47·6	38·0	62	1881, 94	20	1880	2·39	—	—
Spurn Head	29·854	43·5	42·2	47·1	40·4	61*	1894, 95	28*	1884	2·28	—	—
York	29·859	40·9	39·7	47·7	36·6	62	1894, 95	14	1871	2·21	39·7	16
Loughborough	29·888	40·7	39·5	48·4	36·7	63*	1881, 93, 94, 95	19*	1887, 93	2·21	—	—
Ardrossan	29·799	43·3	41·6	47·9	39·2	69	1872	21	1880	3·78	—	—
Malin Head	29·755	43·9	42·0	48·0	40·9	—	—	—	—	—	—	—
Belmullet	29·799	45·3	43·3	49·4	41·5	—	—	—	—	5·92	—	—
Donaghadee	29·819	43·4	42·3	48·5	39·4	60	1894	27	1878, 83	3·10	—	—
Holyhead	29·845	45·9	44·2	49·8	42·9	62	1881	29	1880	3·96	—	—
Liverpool	29·862	42·7	40·9	48·0	39·7	63	1872	22	1880	2·81	—	—
Parsonstown	29·852	41·8	40·3	49·1	37·0	62	1874	20	1890	2·86	63·1	25
Valencia	29·867	47·4	45·5	52·3	42·9	63	1881	27	1890	5·63	63·8	25
Roche's Point	29·869	46·2	44·6	51·2	42·0	61	1875	27	1890	4·79	—	—
Pembroke	29·871	47·1	45·4	50·3	43·6	58	1884, 95	28	1890	4·04	58·8	23
Scilly	29·898	50·1	48·1	52·6	46·6	60	1875, 81	29	1890	3·80	—	—
Prawle Point	29·917	46·4	44·9	51·2	42·1	61*	1881	19*	1890	3·26	—	—
Jersey	29·937	48·0	46·0	52·3	44·3	64	1874, 81	16	1890	4·19	70·9	26
Hurst Castle	29·912	45·3	44·3	50·7	41·0	66	1874	20	1890	3·11	—	—
Dover	29·904	44·7	43·3	49·7	40·9	61	1895	17	1890	3·30	—	—
LONDON	29·910	42·5	41·1	49·6	38·3	65	1894	19	1879	2·31	29·5†	11†
Oxford	29·908	41·4	40·2	48·5	37·7	68	1881	19	1871, 87	2·42	55·4	22
Cambridge	29·901	41·0	40·1	48·9	36·0	65	1895	15	1890	2·07	61 7	24
Yarmouth	29·879	43·4	42·2	47·7	39·2	60	1895	23	1890	2·92	—	—

* Extremes of temperature at these Stations are from observations made during the 15 years—1881-95. † The Sunshine values are for Westminster.

GENERAL SITUATION AT 8 A.M.

PRESSURE

Highest 30.3 ins. and more over the S^th. half of Ireland, and exceeding 30.1 ins. over nearly the whole of the United Kingdom.
Lowest 29.4 ins. and less at Haparanda, and below 29.8 ins. all over central Europe.
Gradients somewhat steep over the southern districts
Barometer falling again, sharply, at our western stations, rising in the east

TEMPERATURE

Highest 57° to 50° on the S. coast of France, but below 40° over our Islands as a whole.
Lowest 24° at Haparanda, 28° on the NW. coast of Norway, and at Dumbarghsh. 30° at Leith.
It had fallen very fast over the United Kingdom during the past 24 hours.

WIND

N^ly over Gt. Britain, and blew strongly at some of the eastern stations. In Ireland, however, it had backed to the S^wd. in some places.

WEATHER

Fine, but unsettled, in most places; snow squalls fell on some parts of our N. and NE. coasts. Rain, hail or snow was felt very generally yesterday especially on our E. and SE coasts. Bright Sunshine recorded yesterday was 6 hrs and more to 2.6 hrs in Ireland, 4.4 hrs. at Aberdeen, and none on our SE coasts.

SEA

High on the N. coast of France, rough in the S. and E. generally, slight in the N.

PROBABLE CHANGES IN SYSTEM NOW PREVALENT

A new depression seems to be approaching our NW^rn and W^rn coasts, and will probably move SE^wds. Our N^rn and W^rn districts have been warned.

FORECASTS

For the 24 hours ending at NOON on 23^RD NOVEMBER 1898

DISTRICTS.		FORECASTS.
0	SCOTLAND NORTH	Varying and N^ly winds, squally, some showers.
1	SCOTLAND EAST	
2	ENGLAND N.E.	N^ly winds, fresh; fine, then variable airs; perhaps snow.
3	ENGLAND EAST	
4	MIDLAND COUNTIES	
5	ENGLAND SOUTH	
6	SCOTLAND WEST	Same as Nos. 0 and 1.
7	ENGLAND N.W.	
8	ENGLAND S.W.	
9	IRELAND NORTH	
10	IRELAND SOUTH	
	WARNINGS	At 10.30 am. today to districts 0 and 6 to 10. Hoist North Cone.

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

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

YESTERDAY'S 2 P.M. REPORTS.

	BAR.	THER. Dry.	THER. Wet.	WIND. Direc.	F.	WEA.	SEA.
Skudesnaes ...	29.84	44	41	WNW	4	bc	2
Sumburgh Head	29.97	34	33	N	3	c	4
Stornoway	30.18	40	36	NNE	4	b	4
Aberdeen	30.05	38	37	NW	3	cpq	3
Shields	30.05	44	40	NW	3	b	2
Ardrossan	30.11	44	42	NW	4	b	2
Malin Head ...	30.16	44	42	NNW	6	bc	5
Belmullet	30.30	47	41	N	5	bc	*
Holyhead	30.13	46	42	N	6	c	4

	BAR.	THER. Dry.	THER. Wet.	WIND. Direc.	F.	WEA.	SEA.
Valencia	30.02	47	41	N	5	bcq	5
Scilly	30.09	50	46	N	6	c	2
Jersey	29.99	?54	53	E	0	c	0
Hurst Castle ...	29.99	49	48	NNE	4	rw	2
Dungeness ...	29.94	51	50	NNE	1	r	1
North Foreland	29.98	51	50	N	4	r	2
London (Westminster)	30.00	47	45	N	1	orgm	#
Yarmouth ...	29.98	45	44	W	1	rm	3
Rochefort ...	30.04	58	56	NW	1	0	#

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

Weather in morning fair generally over E^rn and central Europe, with fog in a few places; very unsettled over our Islands and France, with much fog and rain at our E^rn, S^rn and the French stations. Rain or sleet falling later in many places, the fall exceeding 0.6 in. at the N. Foreland, the Helder and Brussels, and exceeding 0.4 in. at Yarmouth, London and Biarritz. Showers slight at our N^rn stations.

Temperature fallen in the N. of our Islands, and the fall extending. Morning readings highest 68° at Malta, and 60° to 50° at the Mediterranean stations generally; 53° at Dungeness, 51° at Scilly, and 50° at Hurst Castle and the N. Foreland. Lowest (1) 23° at Archangel, 34° in many parts of Lapland; (2) 20° at Kiev, 25° at Kharkov, and below 32° over many parts of S.E^rn Europe; (3) 35° at Wick, and 36° to 38° at many of the Scotch stations. Falling later all over the United Kingdom, the fall reaching the S^rn stations at night.

Wind (1) light and anticyclonic over eastern and central Europe; (2) NW.^ly to SW.^ly over the North Sea; SW.^ly to S.^ly (moderate to a gale) over Sweden, Denmark and the Baltic; (3) becoming N.^ly on our western and northwestern coasts, and blowing freshly.

Barometer highest (1) 30.6 ins. and more to 30.2 ins. over SE^rn and central Europe, and exceeding 30.2 ins. over the W^rn parts of Ireland, and the southwestern parts of the Spanish Peninsula; (2) 29.5 ins. and less in a depression over the N. of Scandinavia, and below 30.1 ins. in another (shallow) disturbance over the Mediterranean. Rising quickly later at our N^rn and W^rn stations, falling in the S. and SE. of England as a small depression moved NE^wds from the Bay of Biscay to those regions.

EXPLANATION OF THE 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.

N.B.—The morning observations are now made at 8 a.m. in the British Islands, Belgium, Germany, Sweden, and Norway, at 7 a.m. in France, and at 9 a.m. in Spain and Portugal. The evening observations are made at 8 p.m. at Oxford, but at 6 p.m. at the other stations in the British Islands and in France; at 8 p.m. in Sweden, Norway and Germany. The time at each Station is the Standard Time of its Country.

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DAILY WEATHER REPORT

for 8 a.m. on Wednesday, 23rd November, 1898.

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

	STATIONS.	YESTERDAY EVENING. (See note at bottom of last page.)					THIS MORNING. (See note at bottom of last page.)								PAST 24 HOURS.				
		Barom.	Temp.	Wind.			Barometer.		Temperature.			Wind.						Temp.		
		At 32° and M.S.L.	Dry Bulb.	Direc.	Force (0 to 12.)	Weather	At 32° Fahr. and M. S. L.	Change since Yesterday.	Dry Bulb.	Wet Bulb.	Change since Yesterday.	Direc.	Force (0 to 12.)	Weather.	Sea (0 to 9.)	Weather.	Hours of Bright Sunshine.	Max.	Min.	Rainfall.
		Ins.	°				Ins.	Ins.	°	°	°							°	°	Ins.
Scandinavia	Haparanda ...	29.73	14	SW	2	b	29.75	+.36	5	4	-19	W	0	b	*	b	*	34	5	-
	Hernösand ...	29.82	24	N	2	b	29.79	+.14	18	17	-13	NW	2	b	*	b	*	36	?	
	Stockholm ...	29.65	32	N	4	S	29.60	-.15	29	28	-10	N	6	o	*	S	*	43	29	0.08
	Wisby	29.57	36	NE	6	r	29.44	-.29	35	33	-7	N	9	S	*	r	*	42	32	0.83
	Karlstad ...	29.77	26	N	4	c	29.78	+.01	20	19	-11	N	4	b	*	c	*	*	*	-
	Bodö	29.71	29	N	4	c	29.69	+.06	27	25	-1	S	4	S	2	c	*	29	23	-
	Christiansund ...	29.91	30	NE	1	o	29.84	-.05	30	26	+2	NNW	3	c	4	o	*	30	27	0.35
	Skudesnaes ...	29.91	29	NNE	2	b	29.80	-.17	31	29	+2	E	2	b	2	bc.b	*	34	27	*
	Færder (Christiania Fjord)	29.82	32	N	6	b	29.82	+.01	27	25	-8	N	5	b	2	b	*	36	27	-
	Skagen (The Scaw)	29.76	32	NNE	4	c	29.76	-.04	31	30	-9	NE	3	b	0	c	*	?	?	-
	Fanö	29.88	29	NE	1	b	29.79	-.06	28	27	-11	NNE	1	b	*	b	*	39	28	-
	Sumburgh Head	29.93	27	N	1	b	29.62	-.50	34	33	+6	E	3	o	4	bc,b	*	34	25	0.02
	Stornoway ...	29.75	37	SSE	6	r	29.31	-.90	36	34	+6	SE	5	o	5	o,r	0.0	37	27	0.10
	Wick	29.77	34	S	2	c	29.43	-.75	37	36	+6	S	7	ou	5	c.rsp	*	38	27	0.20
	Nairn	29.88	31	W	0	c	29.33	-.90	35	35	+4	E	2	c	1	c	*	35	28	-
	Aberdeen ...	29.96	28	WSW	2	bc	29.42	-.78	37	34	+6	SSE	7	ogqrsp	6	bc	3.4	38	27	0.09
British Isles.	Leith	29.95	34	WNW	3	o	29.28	-.96	32	31	+2	ESE	2	o	*	o,sp	*	38	29	0.01
	Shields	30.02	31	NW	1	b	29.40	-.78	31	31	-1	S	4	S	3	bc.b	*	37	29	0.01
	Spurn Head ...	29.99	34	NW	5	S	29.42	-.63	38	37	+1	S	5	oqprs	5	S	*	40	33	0.04
	York	30.03	32	N	1	b	29.34	-.83	32	32	+1	E	2	S	*	bc,s	+2	37	28	0.15
	Loughborough ...	30.07	27	W	1	b	29.37	-.80	32	31	+1	ESE	5	S	*	bm.oqs	*	41	25	0.18
	Ardrossan ...	29.90	40	ESE	4	o	29.17	-1.08	32	32	+3	NE	5	S	4	o,s	*	40	28	0.26
	Malin Head ...																*			
	Belmullet ...	29.69	42	SSW	9	r	29.01	-1.27	43	42	+5	N	2	o	*	r	*	52	36	1.00
	Donaghadee ...	29.91	38	WSW	5	c	29.02	-1.27	42	42	+7	SE	7	r	5	c.r	*	44	33	0.90
	Liverpool (Bidston)	30.05	33	SE	1	f	29.13	-1.12	32	31	0	ESE	6	S	?	b,s	*	39	29	0.13
	Holyhead ...	30.01	37	SE	2	o	29.00	-1.26	46	46	+6	S	4	r	4	bc.m.r	*	47	35	0.75
	Parsonstown ...	29.95	38	S	2	r	28.98	-1.35	44	43	+16	N	0	or	*	c.or	1.3	48	27	0.72
	Valencia ...	29.92	43	S	4	rm	29.02	-1.33	46	42	+11	NNW	5	op	6	c.gmr	2.2	53	34	0.93
	Roche's Point ..	30.00	45	WSW	4	ogm	29.02	-1.32	47	46	+10	WNW	4	cp	4	b.op	*	47	37	0.80
	Pembroke (St. Ann's Hd.)	30.07	44	SE	3	o	29.03	-1.22	49	48	+9	W	7	rq	5	bc.or	0.4	53	40	0.88
	Scilly	30.10	45	NNE	1	c	29.16	-1.05	51	51	+5	SSW	6	r	3	cp	3.0	52	41	0.53
	Prawle Point ...	30.10	32	NNW	2	b	29.26	-.91	47	47	+12	SSW	8	or	6	c,b,r	*	48	30	0.80
	Jersey (St. Aubin's)	30.07	44	NNE	3	bc	29.51	-.55	41	40	-3	S	5	omr	5	bc.qrh	*	54	34	0.04
	Hurst Castle ...	30.06	33	N	1	bm	29.41	-.68	43	40	+5	SSW	6	rm	3	bm	*	45	29	0.04
	Dungeness ...	29.99	35	NNW	3	bc	29.52	-.40	44	43	+3	S	6	r	5	bc	*	48	28	0.04
	North Foreland	30.00	42	NNW	7	bc	29.54	-.39	41	40	-4	ESE	7	rqh	5	bc	*	46	32	0.02
	London (Brixton) ...	30.04	36	N	3	bm	29.50	-.57	38	36	+1	SE	4	r	*	bm.o	0.8	40	29	0.01
	Oxford	30.02	29	W	2	bc	29.38	-.76	34	33	+1	SSE	3	S	*	bm	*	39	27	0.11
	Cambridge ...	30.05	30	NNW	2	b	29.47	-.61	34	33	+2	SSE	4	rs	*	b	4.8	40	25	0.01
	Yarmouth ...	29.96	38	NW	3	cqh	29.51	-.46	42	39	-1	SSE	4	c	4	c.qhp	*	43	31	0.06
Germany & Holland.	Cuxhaven ...	29.78	40	N	6	c	29.78	+.04	31	30	-9	S	1	bc	*	r.c	*	43	28	0.12
	Berlin	29.65	34	SW	3	o	29.77	+.01	30	28	+1	W	3	b	*	o	*	39	29	-
	Wiesbaden ...	*	*	*	*	*	29.77	+.02	28	27	-5	W	0	bc	*	*	*	39	28	-
	Munich	29.71	34	W	0	o	29.69	-.10	33	33	+5	N	2	S	*	o	*	36	28	0.04
	The Helder ...	29.88	40	NNE	2	bc	29.68	-.14	34	33	-10	S	1	c	1	bc	*	46	32	0.04
Belgium.	Brussels ...	*	*	*	*	*	29.73	-.04	30	29	-11	SE	1	o	*	b	*	43	28	0.04
	Cape Gris Nez ...	29.88	40	NE	6	o	?	?	37	35	-9	S	4	o	4	o	*	48	34	0.08
	Paris	29.94	40	N	3	b	29.74	-.05	28	28	-17	S	1	r	*	b	*	47	27	-
	Brest	30.10	37	NE	1	b	29.47	-.61	47	46	+5	SW	6	r	0	b	*	50	34	0.16
	Lorient	30.06	44	N	5	b	29.38	-.46	43	42	-1	SW	6	r	4	b	*	51	39	-
France &	Rochefort ...	29.92	45	NE	6	o	29.77	-.14	37	36	-9	E	3	m	*	c.o	*	54	36	-
	Belfort	29.72	42	NE	1	r	29.68	-.11	32	32	-7	E	4	f	*	r	*	45	32	0.28
	Lyons	29.76	45	NNW	2	r	29.71	-.08	37	35	-6	NNW	2	fo	*	r	*	46	37	-
	Nice	29.69	50	E	4	b	29.52	-.26	48	47	-2	E	3	r	4	o	*	55	46	0.08
	Perpignan ...	29.74	60	NW	3	b	29.63	-.16	47	42	-4	NW	4	o	*	o	*	54	46	0.20
	Biarritz ...	29.87	47	N	3	r	29.72	-.07	41	40	-15	S	2	c	3	r	*	56	41	-
Peninsula.	Corunna ...																*			
	Lisbon	29.93	51	N	5	b	29.91	-.06	46	39	-6	N	5	b	*	b	*	57	45	-
	Azores (P. Delgada)	30.28	60	ENE	4	o	30.25	+.04	58	53	-3	ENE	2	o	3	o	*	64	55	-

For Explanation of Columns, see bottom of last page. † *Received too late for Insertion in Charts on next page.*

NOTE: *The Sunshine for London given in this Table is now recorded on the tower of the Wesleyan Training College, Westminster.*

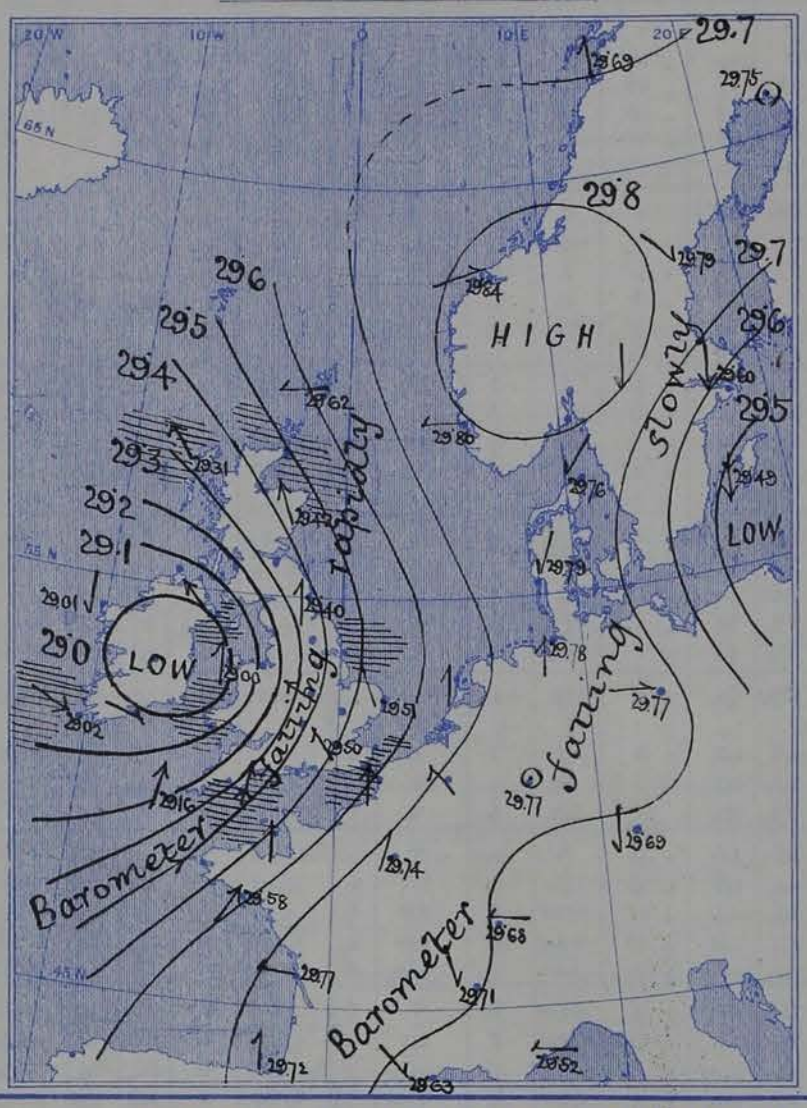
Bright Sunshine yesterday Southport 6.8 hrs;

WEATHER CHARTS

FOR Wednesday, 23rd November, 1898

BAROMETER, WIND AND SEA.

BAROMETER—Isobars are drawn for each tenth of an inch.
WIND—Arrows shew Directions and Force, flying with the wind.
Force above 10 ⟶⟶ ; *Force 5 to 7* ⟶ ; *Force 8 to 10* ⟶⟶ ; *Force 1 to 4* ⟶ ; *Calm* ⊙
SEA—Rough ; *High*



TEMPERATURE & WEATHER.

TEMPERATURE—Isotherms are drawn for each 10°.
WEATHER—Shown by Letters of the Beaufort Scale.
RAINFALL—A dotted line separates areas where rain has fallen from those without rain. The fall in past 24 hours when exceeding half an inch is shown thus—0·6.

VALUES FOR PRESSURE, TEMPERATURE, RAINFALL, AND BRIGHT SUNSHINE IN THE MONTH OF NOVEMBER.

STATIONS.	PRESSURE AT 8 A.M. Means, 1871—95.	TEMPERATURE OF AIR. 1871-95. Means of				Absolute Extremes.				RAINFALL. Means, 1866—95.	BRIGHT SUNSHINE. Means, 1881—95.	
		Dry Bulb 8 a.m.	Wet Bulb 8 a.m.	Daily Maximum.	Daily Minimum.	Maximum	Years.	Minimum.	Years.		Hours.	Per cent. of possible.
	(Inches.)	°	°	°	°	°		°		(Inches.)		
Sumburgh Head	29·693	42·3	40·6	45·8	38·2	55	1890	21	1875	4·14	—	—
Stornoway	29·703	42·0	41·0	46·4	37·1	56	1881	20	1880	4·80	42·1	18
Wick	29·728	41·6	40·1	46·2	36·4	58	1885, 89	15	1884	2·93	—	—
Nairn	29·743	40·0	38·4	45·7	35·5	61	1885, 94	18	1880	2·14	—	—
Aberdeen	29·772	40·7	38·9	46·3	36·7	62	1872, 89	15	1880, 84	3·16	54·7	23
Leith	29·798	41·8	40·1	48·2	37·1	64	1872	18	1885	2·05	—	—
Shields	29·824	42·4	40·8	47·6	38·0	62	1881, 94	20	1880	2·39	—	—
Spurn Head	29·854	43·5	42·2	47·1	40·4	61*	1894, 95	28*	1884	2·28	—	—
York	29·859	40·9	39·7	47·7	36·6	62	1894, 95	14	1871	2·21	39·7	16
Loughborough	29·888	40·7	39·5	48·4	36·7	63*	1881, 93, 94, 95	19*	1887, 93	2·21	—	—
Ardrossan	29·799	43·3	41·6	47·9	39·2	69	1872	21	1880	3·78	—	—
Malin Head	29·755	43·9	42·0	48·0	40·9	—	—	—	—	—	—	—
Belmullet	29·799	45·3	43·3	49·4	41·5	—	—	—	—	5·92	—	—
Donaghadee	29·819	43·4	42·3	48·5	39·4	60	1894	27	1878, 83	3·10	—	—
Holyhead	29·845	45·9	44·2	49·8	42·9	62	1881	29	1880	3·96	—	—
Liverpool	29·862	42·7	40·9	48·0	39·7	63	1872	22	1880	2·81	—	—
Parsonstown	29·852	41·8	40·3	49·1	37·0	62	1874	20	1890	2·86	63·1	25
Valencia	29·867	47·4	45·5	52·3	42·9	63	1881	27	1890	5·63	63·8	25
Roche's Point	29·869	46·2	44·6	51·2	42·0	61	1875	27	1890	4·79	—	—
Pembroke	29·871	47·1	45·4	50·3	43·6	58	1884, 95	28	1890	4·04	58·8	23
Scilly	29·898	50·1	48·1	52·6	46·6	60	1875, 81	29	1890	3·80	—	—
Prawle Point	29·917	46·4	44·9	51·2	42·1	61*	1881	19*	1890	3·26	—	—
Jersey	29·937	48·0	46·0	52·3	44·3	64	1874, 81	16	1890	4·19	70·9	26
Hurst Castle	29·912	45·3	44·3	50·7	41·0	66	1874	20	1890	3·11	—	—
Dover	29·904	44·7	43·3	49·7	40·9	61	1895	17	1890	3·30	—	—
LONDON	29·910	42·5	41·1	49·6	38·3	65	1894	19	1879	2·31	29·5†	11†
Oxford	29·908	41·4	40·2	48·5	37·7	68	1881	19	1871, 87	2·42	55·4	22
Cambridge	29·901	41·0	40·1	48·9	36·0	65	1895	15	1890	2·07	61·7	24
Yarmouth	29·879	43·4	42·2	47·7	39·2	60	1895	23	1890	2·92	—	—

* Extremes of temperature at these Stations are from observations made during the 15 years—1881-95. † The Sunshine values are for Westminster.

GENERAL SITUATION AT 8 A.M.

PRESSURE

Highest, 29·8 ins: and upwards over the southern parts of Norway
Lowest, 29·0 ins: and less, in a deep depression with its centre over Ireland; 29·5 ins: and less, in a shallow disturbance over the Baltic.
Gradients steep over Great Britain, but moderate or slight elsewhere:
Barometer falling generally,—rapidly over Ireland and England.

TEMPERATURE

Highest, (1) 51° at Scilly, 49° at Pembroke, and 47° at Rockcliffe, Praule Point, and Brest; (2) 48° at Nice and 47° at Belfagnaux.
Lowest, 5° at Haparanda, 18° at Hernösand, 20° at Karlstad, 27° at Bodö and Vaerdö, and 28° at Vardö. Wiesbaden and Paris.
Sharp frost occurred last night in most parts of Great Britain, the lowest temperatures reported being: (1) In the screen 25° at Cumbrae, 26° at Aberdeen, Loughborough and Cambridge; (2) On the grass 18° at Loughborough.

WIND

Strong from the S.W. or SE. in many parts of Great Britain, with a moderate to fresh gale on our southwest coasts, and also in the east of Scotland; light from the same quarters in the Netherlands.
NE. to N. on our extreme northwest coasts, and NW. in the south of Ireland.
Light to moderate from between E. and N. over the southern parts of France; N. in Sweden, with a strong gale at Visby.

WEATHER

Rainy in the west and south of our Islands generally, and also in the northwest of France; snow is falling at many stations in the northern and central parts of Great Britain, as well as at Bodö, Visby, and Memel.
Foggy over Central France, Germany, Denmark, and south of Norway, as well as over the Gulf of Bothnia.
Since yesterday rain or snow has fallen over Western Europe generally,—heavily in the west of our Islands; at Belmullet there has been 1·0 inch, and at Donaghadee, Valencia, and Pembroke 0·9 inch. Lunar halos were seen yesterday in several parts of England.

SEA

Rough or rather so on nearly all parts of our coasts.

PROBABLE CHANGES IN SYSTEM NOW PREVALENT

The depression over Ireland seems likely to travel in a southeasterly direction. Gales or strong winds are probable on nearly our coasts,—from the SE. or E. in the north and east, and from the NW. or N. in the southwest.

FORECASTS

For the 24 hours ending at NOON on 24th Nov.r 1898

DISTRICTS.	FORECASTS.	DISTRICTS.	FORECASTS.
▲ 0 SCOTLAND NORTH ▲ 1 SCOTLAND EAST	SE. to E. gales and strong winds; squally at first with some snow, improving later.	▲ 6 SCOTLAND WEST ▲ 7 ENGLAND N.W.	E. and NE. gales and strong winds; squally at first, with some snow, improving later.
▲ 2 ENGLAND N.E. ▲ 3 ENGLAND EAST 4 MIDLAND COUNTIES	SE. to E. winds, increasing to a gale; squally, with snow or sleet.	▲ 8 ENGLAND S.W.	SW. gales, shifting to the N.W.; squally, with cold rain or sleet.
▲ 5 ENGLAND SOUTH	S. to SE. or E. gales and strong winds; squally with rain at first, followed by snow or sleet.	▲ 9 IRELAND NORTH ▲ 10 IRELAND SOUTH	Same as Nos. 6 and 7.
		WARNINGS	NW. to N. gales or strong winds; squally, some snow or sleet.
			At 7·20 pm yesterday to districts 1, 2, 3 & 5 "HOIST NORTH CONE." 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.	THER. Dry.	THER. Wet.	WIND. Direc.	F.	WEA.	SEA.
Skudesnaes ...	29.97	33	31	N	2	bc	2
Sumburgh Head	30.03	29	27	N	1	bc	3
Stornoway	29.98	35	32	SSE	2	o	2
Aberdeen	30.10	32	30	W	2	bc	3
Shields	30.13	37	34	NW	3	bc	3
Ardrossan	30.10	40	39	ENE	2	o	1
Malin Head ...	30.01	38	38	S	5	c	3
Belmullet	30.03	42	41	S	5	r	*
Holyhead	30.17	40	35	NE	1	b	1

	BAR.	THER. Dry.	THER. Wet.	WIND. Direc.	F.	WEA.	SEA.
Valencia	30.16	43	41	S	2	ov	4
Scilly	30.17	46	42	N	5	cp	2
Jersey	30.09	45	41	N	4	bc	3
Hurst Castle ...	30.07	42	38	NNE	4	bm	3
Dungeness ...	29.98	41	40	N	5	bc	4
North Foreland	29.99	42	40	NNW	1	bc	5
London (Westminster)	30.05	40	36	N	3	b	*
Yarmouth ...	29.99	42	37	N	5	c	5
Rochefort ...	29.92	46	44	NE	5	c	*

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

Weather in morning fine over our Islands generally, but snow showers reported at Aberdeen. Cloudy or dull over the greater part of the Continent with rain over the Baltic, North Germany, the Netherlands, and the east and south of France, as well as at Barcelona, Lisbon, and Naples; snow falling at Christiansund. Fine over Eastern Austria and the Central parts of Russia. Heavy rain setting in later over the west of our Islands, and snow falling at night in the northern parts of Great Britain. Lunar halos seen over England.

Temperature fallen in most places. Morning readings highest 63° at Malta, 61° at Sanguinaire, and 60° at La Calle; above 50° in many parts of southern Europe. Lowest (1) 15° at Riga, 16° at Hermanstadt, and 18° at Charkov; (2) 24° at Haparanda and 28° at Bodö; below the freezing point over the northern and central parts of the United Kingdom generally. Daily maxima below 40° in many parts of Great Britain, and below 50° on all but our extreme southwest coasts; thermometer exceeding 50° in the west and south of France, and reaching 57° at Lorient and also at Lisbon. Sharp frost occurring over Great Britain at night.

Wind strong from the N^w on the east and southeast coasts of England, and on all the western coasts of the Continent, and light to moderate from the same quarter or from NW. in most parts of our Islands, but S^ly at Malin Head. Light from the W^w in Sweden, moderate to strong from SW. over northern Russia. NE^ly in the south of Russia; E^ly in Italy and the extreme south of France; SE^ly or S^ly in Germany. Subsequently shifting to the S^th on all our own western and northern coasts, and increasing to a gale at night.

Barometer highest 30·3 in: and upwards in an anticyclone lying over Ireland and also in another system over the south of Russia. Lowest 29·4 in: and less. in a well marked depression over Lapland; 29·8 in: and less. in a long trough stretching southwards from northern Europe over Germany, France and the western parts of the Mediterranean. Anticyclone over our Islands giving way later, and deep depression advancing over Ireland at night.

EXPLANATION OF THE 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.

N.B.—The morning observations are now made at 8 a.m. in the British Islands, Belgium, Germany, Sweden, and Norway, at 7 a.m. in France, and at 9 a.m. in Spain and Portugal. The evening observations are made at 8 p.m. at Oxford, but at 6 p.m. at the other stations in the British Islands and in France; at 8 p.m. in Sweden, Norway and Germany. The time at each Station is the Standard Time of its Country.

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DAILY WEATHER REPORT

for 8 a.m. on Thursday, 24th November, 1898.

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

	STATIONS.	YESTERDAY EVENING. (See note at bottom of last page.)					THIS MORNING. (See note at bottom of last page.)								PAST 24 HOURS.				
		Barom.	Temp.	Wind.		Weather	Barometer.		Temperature.			Wind.		Weather.	Sea (0 to 9.)	Weather.	Hours of Bright Sunshine.	Temp.		Rainfall.
		At 32° and M.S.L.	Dry Bulb.	Direc.	Force (0 to 12.)		At 32° Fahr. and M. S. L.	Change since Yesterday.	Dry Bulb.	Wet Bulb.	Change since Yesterday.	Direc.	Force (0 to 12.)					Max.	Min.	
		Ins.	°				Ins.	Ins.	°	°	°							°	°	Ins.
Scandinavia.	Haparanda ...	29.70	-4	SW	0	b	29.73	-.02	-8	°	-13	SW	0	b	*	b	*	12	-9	-
	Hernösand ...	29.80	14	SW	0	b	29.84	+.05	11	11	-7	SW	0	b	*	b	*	25	?	-
	Stockholm ...	29.82	20	NNW	2	b	29.93	+.33	16	15	-13	NW	2	b	*	b	*	32	16	-
	Wisby	29.80	32	NNW	6	bc	29.89	+.40	27	26	-8	ESE	4	b	*	bc	*	36	27	-
	Karlstad ...	29.88	18	N	2	b	29.90	+.12	13	12	-7	N	2	c	*	b	*	*	*	-
	Bodö	29.71	21	SW	0	b	29.67	-.02	22	20	-5	S	2	0	1	b	*	27	18	-
	Christiansund ...	29.73	31	NNW	3	c	29.69	-.15	30	27	0	SW	0	c	4	c	*	30	28	-
	Skudesnaes ...	29.72	32	ESE	6	bc	29.67	-.13	33	30	+2	E	8	bc	4	bc	*	34	30	*
	Færder (Christiania Fjord)	29.85	26	ENE	1	b	29.84	+.02	24	23	-3	ENE	2	c	2	b	*	27	23	-
	Skagen (The Scaw)	29.83	31	ESE	3	b	29.76	.00	31	31	0	ESE	4	bc	0	b	*	32	28	-
	Fanö	29.72	30	E	4	c	29.53	-.26	33	32	+5	E	5	c	*	c	*	34	28	-
British Isles.	Sumburgh Head	29.54	37	E	4	sp	29.37	-.25	37	37	+3	S	5	r	6	c.sp	*	41	34	0.34
	Stornoway ...	29.40	39	ENE	5	r	29.29	-.02	37	36	+1	NE	5	r	5	o,r	0.0	40	34	0.40
	Wick	29.42	40	ESE	8	o	29.31	-.12	39	38	+2	SE	7	ru	8	o	*	42	35	0.90
	Nairn	29.35	36	E	2	c	29.27	-.06	38	36	+3	E	2	o	1	c	*	38	33	0.07
	Aberdeen ...	29.31	40	ESE	9	ogqr	29.29	-.13	39	37	+2	SE	7	ogqp	8	grk.qr	0.0	42	36	0.51
	Leith	29.16	38	ESE	2	o	29.16	-.12	39	38	+1	E	3	o	*	o	*	40	30	0.14
	Shields	29.15	40	SE	6	r	29.14	-.26	42	41	+11	ESE	6	r	5	r	*	42	31	0.92
	Spurn Head ...	29.12	42	SE	9	rq	29.08	-.34	44	43	+6	ESE	7	oq	6	oq	*	44	38	0.29
	York	29.10	35	SSE	3	r	29.09	-.25	40	38	+8	ESE	1	o	*	s,r	0.0	40	31	0.76
	Loughborough ...	29.07	37	SE	6	r	29.00	-.37	37	36	+5	ESE	4	o	*	sq,rq,p	*	39	32	0.62
	Ardrossan ...	29.06	38	NE	4	bcm	29.10	-.07	36	36	+4	NE	4	rf	2	cm.bcm	*	38	30	0.61
	Malin Head ...														*		*			
	Belmullet ...	29.13	40	NE	10	r	29.21	+.20	42	42	-1	NE	12	o	*	op,or	*	47	40	0.50
	Donaghadee ...	28.98	42	NE	7	cq	29.05	+.03	40	40	-2	ENE	7	r	5	cq	*	42	38	0.39
	Liverpool (Bidston)	28.92	37	ESE	6	or	28.96	-.17	37	35	+5	E	5	o	?	s,r	*	40	28	0.30
	Holyhead ...	28.83	45	SE	2	o	28.86	-.14	39	38	-7	ENE	5	ors	4	qm,o	*	46	37	0.27
	Parsonstown ...														*					
	Valencia ...	28.88	47	NNE	5	cp	28.99	-.03	45	42	-1	NNE	9	qr	6	cp	3.3	49	36	0.70
	Roche's Point ..	28.84	53	N	4	b	28.84	-.18	39	39	-8	NNE	7	f	5	p.b	*	48	36	0.28
	Pembroke (St. Ann's Hd.)	28.78	48	SW	3	bc	28.74	-.29	41	40	-8	E	4	qr	4	r,o.bc	0.0	49	40	0.76
	Scilly	28.77	48	S	3	cp	28.70	-.46	49	46	-2	NNE	4	c	5	cp	1.7	53	45	0.22
	Prawle Point ...	28.87	47	SSE	4	c	28.73	-.53	44	44	-3	NE	3	r	3	c,r	*	50	40	0.88
	Jersey (St. Aubin's)	29.03	45	SE	8	rm	28.77	-.34	49	48	+8	SE	8	cm	7	rm	*	49	40	0.43
	Hurst Castle ...	29.00	46	S	7	rm	28.80	-.61	49	47	+6	SE	5	op	3	rm	*	49	41	1.33
	Dungeness ...	29.24	42	SSE	8	r	29.02	-.50	43	42	-1	SSE	6	oq	7	o,r	*	47	40	0.12
	North Foreland	29.26	40	SE	8	o	29.03	-.51	40	40	-1	SE	6	rq	5	o	*	42	38	0.13
	London (Brixton) ...	29.15	40	SE	6	oqp	28.99	-.51	40	40	+2	SE	4	oq	*	oqr.od	0.0	41	36	0.31
	Oxford	29.02	42	SSE	4	r	28.93	-.45	40	40	+6	SE	4	rq	*	rq	*	43	33	0.52
	Cambridge ...	29.16	39	SSE	5	d	29.03	-.44	40	40	+6	SSE	3	dm	*	d	0.0	41	32	0.06
	Yarmouth ...	29.29	43	SE	8	c	29.10	-.41	43	40	+1	ESE	7	cgq	6	cgq	*	45	39	0.03
Germany & Holland.	Cuxhaven ...	29.69	30	SSE	2	bc	29.50	-.28	31	30	0	E	5	o	*	bc	*	34	28	-
	Berlin	29.72	31	SE	3	b	29.48	-.29	32	30	+2	SE	4	o	*	b	*	36	27	-
	Wiesbaden ...	*	*	*	*	*	29.31	-.46	37	35	+9	E	1	o	*	*	*	39	28	-
	Munich... ..	29.44	31	E	5	o	29.33	-.36	32	31	-1	NW	2	o	*	o	*	36	30	0.04
	The Helder ...	29.47	34	SE	3	o	29.26	-.42	33	32	-1	ESE	2	o	1	o	*	36	32	-
Belgium.	Brussels ...	*	*	*	*	*	29.20	-.53	33	32	+3	ESE	3	c	*	o	*	35	29	-
	Cape Gris Nez...	?	36	S	4	o	?	?	36	35	-1	SE	4	o	4	o	*	34	34	0.04
	Paris	29.39	32	SE	3	o	29.12	-.62	35	34	+7	SE	3	o	*	o	*	°	?	0.04
	Brest	28.91	48	SW	4	r	28.63	-.84	48	47	+1	WNW	3	r	4	r	*	54	44	0.63
	Lorient... ...	28.93	48	W	6	r	28.71	-.87	50	46	+7	SW	5	c	6	r	*	54	36	0.63
France &	Rochefort ...	29.28	45	S	5	o	29.03	-.74	49	47	+12	S	4	r	*	o	*	49	34	0.79
	Belfort	29.46	32	E	3	s	29.26	-.42	35	34	+3	E	3	m	*	s	*	61	32	-
	Lyons	29.47	38	N	1	o	29.25	-.46	37	37	0	SSE	1	c	*	o	*	44	35	-
	Nice														*		*			
	Perpignan ...	29.48	42	NE	2	o	29.25	-.38	38	37	-9	W	2	o	*	o	*	51	37	-
	Biarritz ...	29.35	48	SSE	4	o	29.08	-.64	50	44	+9	SSW	6	c	4	o	*	50	41	0.12
Peninsula.	Corunna ...														*		*			
	Lisbon	29.63	53	SW	4	o	29.44	-.47	53	49	+7	W	3	o	*	o	*	55	46	0.16
	Azores (P. Delgada)	30.08	57	NNE	3	o	29.95	-.30	58	53	0	NNE	4	o	3	o	*	61	55	0.04

For Explanation of Columns, see bottom of last page. † *Received too late for Insertion in Charts on next page.*

NOTE: *The Sunshine for London given in this Table is now recorded on the tower of the Wesleyan Training College, Westminster.*

Bright Sunshine yesterday Southport 0.0 hrs;

WEATHER CHARTS

FOR Thursday, 24th November, 1898

BAROMETER, WIND AND SEA.

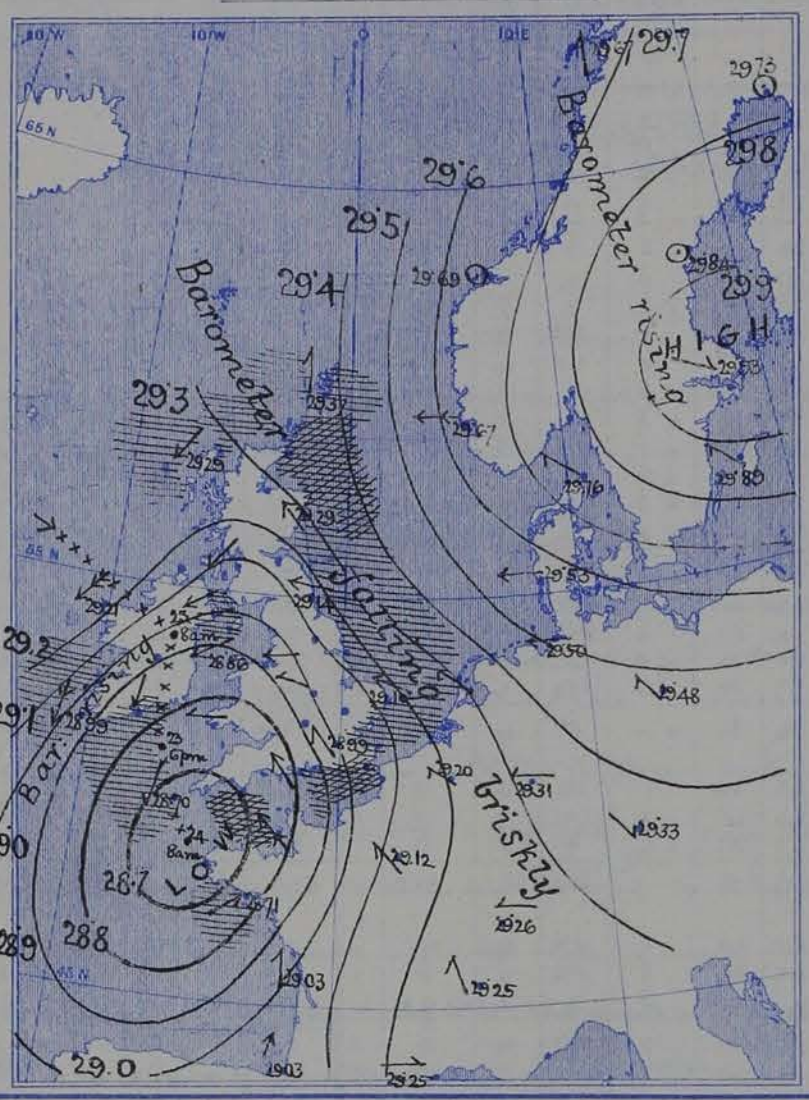
BAROMETER—Isobars are drawn for each tenth of an inch.

WIND—Arrows shew Directions and Force, flying with the wind.

Force above 10 ⟶⟶ ; *Force 5 to 7* ⟶ ; } Calm ⊙

Force 8 to 10 ⟶ ; *Force 1 to 4* ⟶ ; }

SEA—Rough ▤ ; *High* ▤

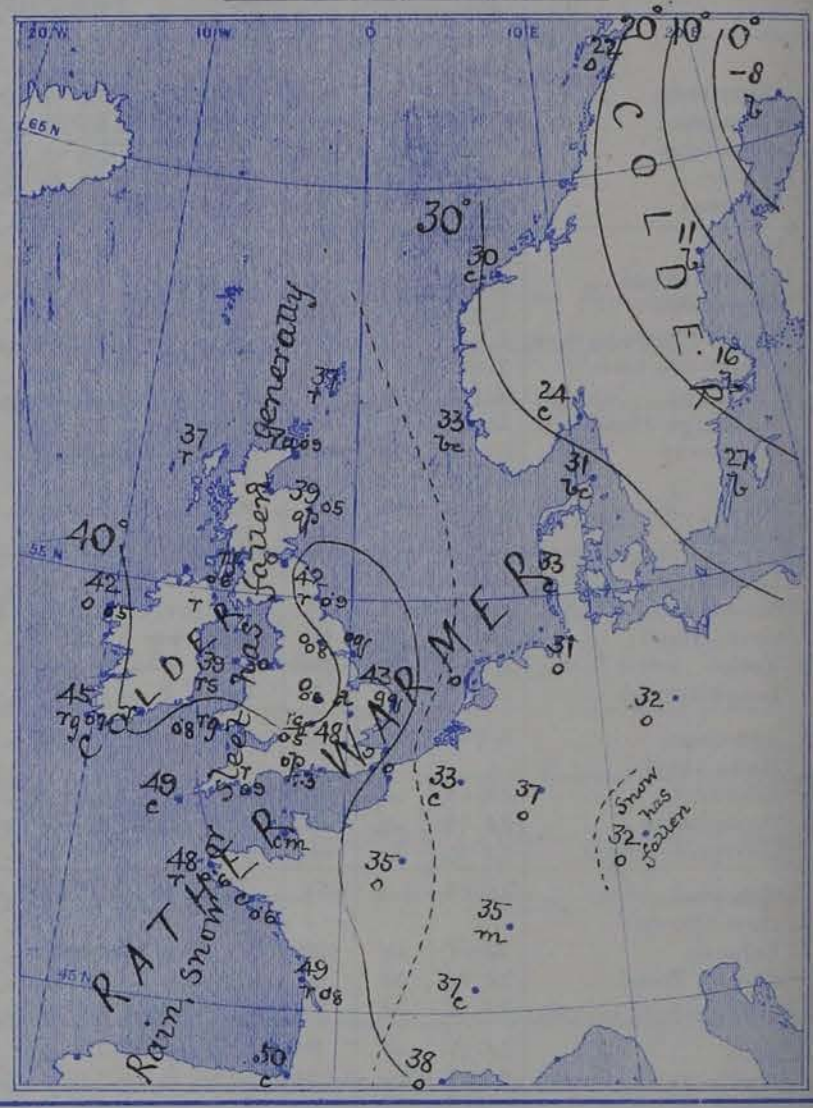


TEMPERATURE & WEATHER.

TEMPERATURE—Isotherms are drawn for each 10°.

WEATHER—Shown by Letters of the Beaufort Scale.

RAINFALL—A dotted line separates areas where rain has fallen from those withow rain. The fall in past 24 hours when exceeding half an inch is shown thus—0·6.



VALUES FOR PRESSURE, TEMPERATURE, RAINFALL, AND BRIGHT SUNSHINE
IN THE MONTH OF NOVEMBER.

STATIONS.	PRESSURE AT 8 A.M. Means, 1871—95.	TEMPERATURE OF AIR. 1871-95. Means of				Absolute Extremes.				RAINFALL. Means, 1866—95.	BRIGHT SUNSHINE. Means, 1881—95.	
		Dry Bulb 8 a.m.	Wet Bulb 8 a.m.	Daily Maximum.	Daily Minimum.	Maximum	Years.	Minimum.	Years.		Hours.	Per cent. of possible.
	(*Inches.*)	°	°	°	°	°		°		(*Inches.*)		
Sumburgh Head	29 · 693	42 · 3	40 · 6	45 · 8	38 · 2	55	1890	21	1875	4 · 14	—	—
Stornoway	29 · 703	42 · 0	41 · 0	46 · 4	37 · 1	56	1881	20	1880	4 · 80	42 · 1	18
Wick	29 · 728	41 · 6	40 · 1	46 · 2	36 · 4	58	1885, 89	15	1884	2 · 93	—	—
Nairn	29 · 743	40 · 0	38 · 4	45 · 7	35 · 5	61	1885, 94	18	1880	2 · 14	—	—
Aberdeen	29 · 772	40 · 7	38 · 9	46 · 3	36 · 7	62	1872, 89	15	1880, 84	3 · 16	54 · 7	23
Leith	29 · 798	41 · 8	40 · 1	48 · 2	37 · 1	64	1872	18	1885	2 · 05	—	—
Shields	29 · 824	42 · 4	40 · 8	47 · 6	38 · 0	62	1881, 94	20	1880	2 · 39	—	—
Spurn Head	29 · 854	43 · 5	42 · 2	47 · 1	40 · 4	61*	1894, 95	28*	1884	2 · 28	—	—
York	29 · 859	40 · 9	39 · 7	47 · 7	36 · 6	62	1894, 95	14	1871	2 · 21	39 · 7	16
Loughborough	29 · 888	40 · 7	39 · 5	48 · 4	36 · 7	63*	1881, 93, 94, 95	19*	1887, 93	2 · 21	—	—
Ardrossan	29 · 799	43 · 3	41 · 6	47 · 9	39 · 2	69	1872	21	1880	3 · 78	—	—
Malin Head	29 · 755	43 · 9	42 · 0	48 · 0	40 · 9	—	—	—	—	—	—	—
Belmullet	29 · 799	45 · 3	43 · 3	49 · 4	41 · 5	—	—	—	—	5 · 92	—	—
Donaghadee	29 · 819	43 · 4	42 · 3	48 · 5	39 · 4	60	1894	27	1878, 83	3 · 10	—	—
Holyhead	29 · 845	45 · 9	44 · 2	49 · 8	42 · 9	62	1881	29	1880	3 · 96	—	—
Liverpool	29 · 862	42 · 7	40 · 9	48 · 0	39 · 7	63	1872	22	1880	2 · 81	—	—
Parsonstown	29 · 852	41 · 8	40 · 3	49 · 1	37 · 0	62	1874	20	1890	2 · 86	63 · 1	25
Valencia	29 · 867	47 · 4	45 · 5	52 · 3	42 · 9	63	1881	27	1890	5 · 63	63 · 8	25
Roche's Point	29 · 869	46 · 2	44 · 6	51 · 2	42 · 0	61	1875	27	1890	4 · 79	—	—
Pembroke	29 · 871	47 · 1	45 · 4	50 · 3	43 · 6	58	1884, 95	28	1890	4 · 04	58 · 8	23
Scilly	29 · 898	50 · 1	48 · 1	52 · 6	46 · 6	60	1875, 81	29	1890	3 · 80	—	—
Prawle Point	29 · 917	46 · 4	44 · 9	51 · 2	42 · 1	61*	1881	19*	1890	3 · 26	—	—
Jersey	29 · 937	48 · 0	46 · 0	52 · 3	44 · 3	64	1874, 81	16	1890	4 · 19	70 · 9	26
Hurst Castle	29 · 912	45 · 3	44 · 3	50 · 7	41 · 0	66	1874	20	1890	3 · 11	—	—
Dover	29 · 904	44 · 7	43 · 3	49 · 7	40 · 9	61	1895	17	1890	3 · 30	—	—
LONDON	29 · 910	42 · 5	41 · 1	49 · 6	38 · 3	65	1894	19	1879	2 · 31	29 · 5†	11†
Oxford	29 · 908	41 · 4	40 · 2	48 · 5	37 · 7	68	1881	19	1871, 87	2 · 42	55 · 4	22
Cambridge	29 · 901	41 · 0	40 · 1	48 · 9	36 · 0	65	1895	15	1890	2 · 07	61 · 7	24
Yarmouth	29 · 879	43 · 4	42 · 2	47 · 7	39 · 2	60	1895	23	1890	2 · 92	—	—

* Extremes of temperature at these Stations are from observations made during the 15 years—1881-95.

† The Sunshine values are for Westminster.

GENERAL SITUATION AT 8 A.M.

PRESSURE

Highest, 29·9 in: and upwards in the south of Sweden; 29·4 in: and upwards in the south of Portugal.
Lowest, 28·7 in: and less, in a deep depression with its centre at the mouth of the English Channel.
Gradients steep or rather so over Western Europe generally.
Barometer falling in most places, but steady in the south of England, and rising in Ireland, as well as in London.

TEMPERATURE

Highest, 53° at Lisbon, 50° at Lorient and Biarritz, and 49° at Scilly, Hunt Carlls, Jersey, and Rochefort.
Lowest, −8° F. at Haparanda, +11° at Hernösand, 13° at Karlstad, and 16° at Stockholm; lowest in our Islands 36° at Ardrossan.
The maxima registered yesterday were below 45° on all but our western and southern coasts, and below 40° at several of our northern stations.

WIND

Strong from the SE^{to} or E^{ly} over Great Britain and the North Sea, and light from the same quarters over Germany, the Netherlands, and Central France.
NE^{ly} over Ireland and the southwest of England, with a severe gale in the extreme west.
Moderate to strong from the Sth or SW^{ly} in the west of France and from the W^{ly} at Lisbon.

WEATHER

Dull at all but the Scandinavian and Danish stations, with rain in nearly all parts of the United Kingdom, as well as in the west of France.
Heavy rain, snow, or sleet fell yesterday at many of our own and the neighbouring Continental stations, the largest amounts being 1·3 in: at Hunt Carlls, and 0·9 in: at Ulick, Shields, and Prawle Point.

SEA

Very high off the northeast of Scotland, high at Jersey and Dungeness, and rough on nearly all other parts of our coasts.

PROBABLE CHANGES IN SYSTEM NOW PREVALENT

The depression noticed over Ireland yesterday has moved in a south-south-easterly direction, and now has its centre at the mouth of the English Channel. The disturbance will probably move away shortly over France, but no very decided improvement in the weather is likely to occur just at present.

FORECASTS

For the 24 hours ending at NOON on 25th Nov^{r} 1898.

DISTRICTS.	FORECASTS.	DISTRICTS.	FORECASTS.
▼ 0 SCOTLAND NORTH	SE^{ly} and E^{ly} gales and strong winds, with rain and sleet showers. Very cold tonight.	▼ 6 SCOTLAND WEST	NE^{ly} gales and strong winds, with rain and sleet squalls, very unsettled.
▼ 1 SCOTLAND EAST		▼ 7 ENGLAND N.W.	
▼ 2 ENGLAND N.E.		▼ 8 ENGLAND S.W.	
▼ 3 ENGLAND EAST		▼ 9 IRELAND NORTH	
4 MIDLAND COUNTIES		▼ 10 IRELAND SOUTH	
▼ 5 ENGLAND SOUTH		WARNINGS	The signals are still 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.	THER. Dry.	THER. Wet.	WIND. Direc.	F.	WEA.	SEA.
Skudesnaes ...	29.79	33	28	SE	2	bc	2
Sumburgh Head	29.56	38	36	E	4	c	4
Stornoway	29.37	40	38	E	4	o	4
Aberdeen	29.35	39	37	SE	8	oqqrh	6
Shields	29.18	39	38	SE	6	qr	5
Ardrossan	29.10	37	36	NE	4	om	3
Malin Head ...							
Belmullet	29.01	46	45	NE	5	op	*
Holyhead	28.86	45	45	SE	3	dgm	3

	BAR.	THER. Dry.	THER. Wet.	WIND. Direc.	F.	WEA.	SEA.
Valencia	28.90	47	44	N	3	cp	6
Scilly	28.87	50	48	W	5	cp	3
Jersey	29.21	44	43	SSE	5	cr	6
Hurst Castle ...	29.11	44	43	S	7	rm	4
Dungeness ...	29.32	44	43	S	7	o	6
North Foreland	29.34	41	40	SE	7	o	5
London (Westminster)	29.22	42	40	SSE	5	op	*
Yarmouth ...	29.32	43	40	SSE	6	cgq	5
Rochefort ...							*

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

Continental Information not received.

EXPLANATION OF THE 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.

N.B.—The morning observations are now made at 8 a.m. in the British Islands, Belgium, Germany, Sweden, and Norway, at 7 a.m. in France, and at 9 a.m. in Spain and Portugal. The evening observations are made at 8 p.m. at Oxford, but at 6 p.m. at the other stations in the British Islands and in France ; at 8 p.m. in Sweden, Norway and Germany. The time at each Station is the Standard Time of its Country.

Subscriptions both for the Daily *and* Weekly Weather Reports *may be paid, in advance, to the* Meteorological Office.

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DAILY WEATHER REPORT

for 8 a.m. on Friday, 25th November, 1898.

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

	STATIONS.	YESTERDAY EVENING. (See note at bottom of last page.)					THIS MORNING. (See note at bottom of last page.)									PAST 24 HOURS.				
		Barom.	Temp.	Wind.		Weather	Barometer.		Temperature.			Wind.		Weather.	Sea (0 to 9.)	Weather.	Hours of Bright Sunshine.	Temp.		Rainfall.
		At 32° and M.S.L.	Dry Bulb.	Direc.	Force (0 to 12.)		At 32° Fahr. and M. S. L.	Change since Yesterday.	Dry Bulb.	Wet Bulb.	Change since Yesterday.	Direc.	Force (0 to 12.)					Max.	Min.	
		Ins.	°				Ins.	Ins.	°	°	°							°	°	Ins.
Scandinavia	Haparanda ...	29.81	-4	SW	0	b	29.86	+.13	[illegible]	8	+16	SW	c	fog	*	b	*	[illegible]	-11	-
	Hernösand ...	29.91	7	SW	0	b	29.93	+.09	8	8	- 3	SW	0	c	*	b	*	18	5	-
	Stockholm ...	29.88	31	E	4	0	29.74	-.19	33	28	+17	ENE	8	0	*	0	*	33	14	-
	Wisby	29.75	31	SE	8	c	29.58	-.31	33	32	+ 6	SE	4	S	*	c	*	38	23	0.08
	Karlstad ...	29.82	23	N	2	c	29.70	-.20	26	24	+13	NNE	4	0	*	c	*	*	*	-
	Bodö	29.72	22	E	1	b	29.72	+.05	23	21	+ 1	E	2	S	1	b	*	23	19	-
	Christiansund ...	29.65	29	ESE	3	c	29.62	-.07	30	26	0	ESE	4	c	4	c	*	30	27	-
	Skudesnaes ...	29.54	36	ENE	6	c	29.48	-.19	34	31	+ 1	ENE	5	bc	3	b.c	*	36	30	*
	Færder (Christiania Fjord)	29.73	28	ENE	5	0	29.61	-.23	30	28	+ 6	NE	6	S	3	0	*	30	23	-
	Skagen (The Scaw)	29.61	36	ESE	5	0	29.49	-.27	33	32	+ 2	ESE	5	S	1	0	*	36	30	-
	Fanö	29.35	35	ENE	6	0	29.28	-.25	34	34	+ 1	ENE	1	r	*	0	*	36	32	-
British Islands.	Sumburgh Head	29.32	41	S	5	0	29.32	-.05	39	38	+ 2	SSE	7	m	4	0	*	42	34	0.37
	Stornoway ...	29.19	39	E	3	0	29.13	-.16	43	42	+ 6	ENE	4	0	4	p.r.0	0.0	43	35	0.55
	Wick	29.20	43	SE	7	0	29.14	-.17	45	44	+ 6	SE	9	0v	9	0	*	45	35	0.50
	Nairn	29.18	36	E	1	0	29.05	-.22	38	38	0	E	1	0	1	0	*	39	33	0.05
	Aberdeen ...	29.16	41	ESE	7	0qq	29.08	-.21	43	41	+ 4	ESE	8	0qrq	8	qqp	0.0	44	38	0.42
	Leith	29.07	41	E	2	0	28.94	-.22	45	44	+ 6	ENE	2	0	*	0	*	45	38	0.06
	Shields	29.05	42	E	5	r	28.87	-.27	44	44	+ 2	ESE	4	op	5	r	*	47	40	0.32
	Spurn Head ...	28.94	45	ESE	5	r	28.81	-.27	47	47	+ 3	SE	5	0	5	r	*	47	41	0.20
	York	28.98	42	ESE	1	orm	28.83	-.26	45	44	+ 5	E	1	0	*	orm	0.0	45	29	0.23
	Loughborough ...	28.92	41	NE	2	0	28.78	-.22	44	43	+ 7	ESE	1	om	*	oqp	*	44	37	0.10
	Ardrossan ...	29.03	38	NE	3	rf	28.92	-.18	41	41	+ 5	NNE	3	cf	2	rf	*	41	35	0.32
	Malin Head ...	29.01	40	ENE	6	rq	28.92	-.17	44	42	+ 4	ENE	6	r	5	rq	*	44	39	0.49
	Belmullet ...	29.09	42	N	11	oqp	29.02	-.19	43	41	+ 1	NE	5	r	*	oqp	*	43	38	1.00
	Donaghadee ...	28.96	41	NE	7	c	28.85	-.20	45	45	+ 5	ENE	7	c	5	r.c	*	45	39	0.92
	Liverpool (Bidston)	28.90	41	E	4	r	28.75	-.21	43	41	+ 6	E	4	c	?	orm	*	44	35	0.10
	Holyhead ...	28.84	42	E	5	qmd	28.73	-.13	45	44	+ 6	E	4	cm	3	cm.dm	*	45	38	0.14
	Parsonstown ...	28.93	37	NW	2	r	28.83	-.13	40	39	+ 3	NW	2	0	*	or	0.0	40	36	0.54
	Valencia ...	28.99	43	N	9	oqqp	28.86	-.13	43	41	- 2	NNE	6	qr	6	rm.qp	0.0	46	35	1.11
	Roche's Point ..	28.84	41	NNE	8	d	28.77	-.07	41	40	+ 2	N	6	b	4	d	*	42	38	0.15
	Pembroke (St. Ann's Hd.)	28.69	46	E	5	r	28.62	-.12	45	43	+ 4	ENE	4	oq	4	r	1.0	47	40	0.21
	Scilly	28.64	49	NNW	5	cu	28.60	-.10	49	47	0	NNW	4	cp	3	cp	3.2	52	45	0.10
	Prawle Point ...	28.67	45	SSE	3	r	28.64	-.09	48	46	+ 4	S	4	rq	4	r.rl	*	50	43	0.64
	Jersey (St. Aubin's)	28.71	51	SE	7	cm	28.77	.00	50	47	+ 1	S	5	bc	5	cp	*	51	48	0.05
	Hurst Castle ...	28.74	51	SE	4	0	28.71	-.09	50	47	+ 1	S	5	cqp	4	c.bl	*	51	47	0.25
	Dungeness ...	28.92	47	SSE	7	0	28.86	-.16	51	49	+ 8	S	4	0	6	0	*	51	42	0.02
	North Foreland	28.98	43	SE	7	0	28.87	-.16	43	42	+ 3	SE	7	cq	5	0	*	44	40	0.07
	London (Brixton) ...	28.88	44	SE	4	0	28.82	-.17	46	44	+ 6	S	3	oqr	*	oqd.o.or	0.0	47	40	0.29
	Oxford	28.82	44	E	2	0	28.75	-.18	45	44	+ 5	SE	1	oqr	*	oqr	*	45	40	0.32
	Cambridge ...	28.92	43	ESE	2	0	28.82	-.21	43	43	+ 3	SE	1	bcm	*	om	0.0	46	39	0.06
	Yarmouth ...	28.98	45	SE	7	rq	28.89	-.21	48	47	+ 5	SSE	5	qr	5	cq.rq	*	48	41	0.17
Germany & Holland.	Cuxhaven ...	29.28	34	ESE	4	0	29.24	-.26	33	32	+ 2	SE	2	c	*	0	*	34	31	-
	Berlin	29.34	35	SE	1	0	29.40	-.08	33	32	+ 1	SE	2	[illegible]	*	0	*	34	32	0.04
	Wiesbaden ...	*	*	*	*	*	29.33	+.02	42	41	+ 5	NE	1	c	*	*	*	42	36	-
	Munich	29.31	34	SW	0	[illegible]	29.41	+.08	32	32	0	E	3	[illegible]	*	[illegible]	*	34	32	-
	The Helder ...	29.13	37	ESE	2	0	30.06	-.20	41	39	+ 8	SSE	1	bc	1	0	*	41	32	0.08
Belgium.	Brussels ...	*	*	*	*	*	29.08	-.12	43	40	+ 10	SSE	4	c	*	0	*	45	32	0.04
	Cape Gris Nez ...	?	44	SSE	5	c	?	?	46	43	+ 10	S	5	0	5	c	*	46	36	0.12
	Paris	29.04	44	SSE	3	c	29.04	-.08	45	41	+ 10	S	3	bc	*	c	*	46	35	0.12
	Brest	28.69	50	NNW	3	c	28.69	+.06	48	46	0	WSW	5	r	5	c	*	52	45	0.32
	Lorient	28.72	50	WSW	5	r	28.80	+.09	50	46	0	W	5	c	5	r	*	55	46	0.20
France &	Rochefort ...	29.01	54	WSW	8	r	28.95	-.08	52	50	+ 3	SW	6	0	*	r.klh	*	55	46	0.43
	Belfort	29.23	39	E	3	m	29.27	+.01	41	40	+ 6	ENE	2	r	*	m	*	42	35	0.24
	Lyons	29.20	49	SW	2	0	29.21	-.04	51	49	+ 14	SE	3	0	*	0	*	51	37	-
	Nice	29.36	51	SW	2	0	29.38		53	52		SW	5	r	1	bc	*	63	48	2.56
	Perpignan ...	29.20	51	SW	2	0	29.17	-.08	53	49	+ 15	S	4	0	*	0	*	54	38	-
	Biarritz ...	29.09	54	SSW	6	0	29.08	.00	54	49	+ 4	SSW	6	0	5	0.l	*	55	50	-
Peninsula.	Corunna ...																*			
	Lisbon	29.38	48	WNW	3	c	29.51	+.07	50	46	- 3	W.NW	3	r	*	e	*	57	46	0.20
	Azores (P. Delgada)	29.98	57	NNE	3	c	29.99	+.04	55	52	- 3	NNW	2	c	2	c	*	61	55	-

For Explanation of Columns, see bottom of last page. † *Received too late for Insertion in Charts on next page.*

NOTE: *The Sunshine for London given in this Table is now recorded on the tower of the Wesleyan Training College, Westminster.*

Bright Sunshine yesterday Southport 0.8 hrs;

WEATHER CHARTS

FOR Friday, 25th November, 1898

BAROMETER, WIND AND SEA.

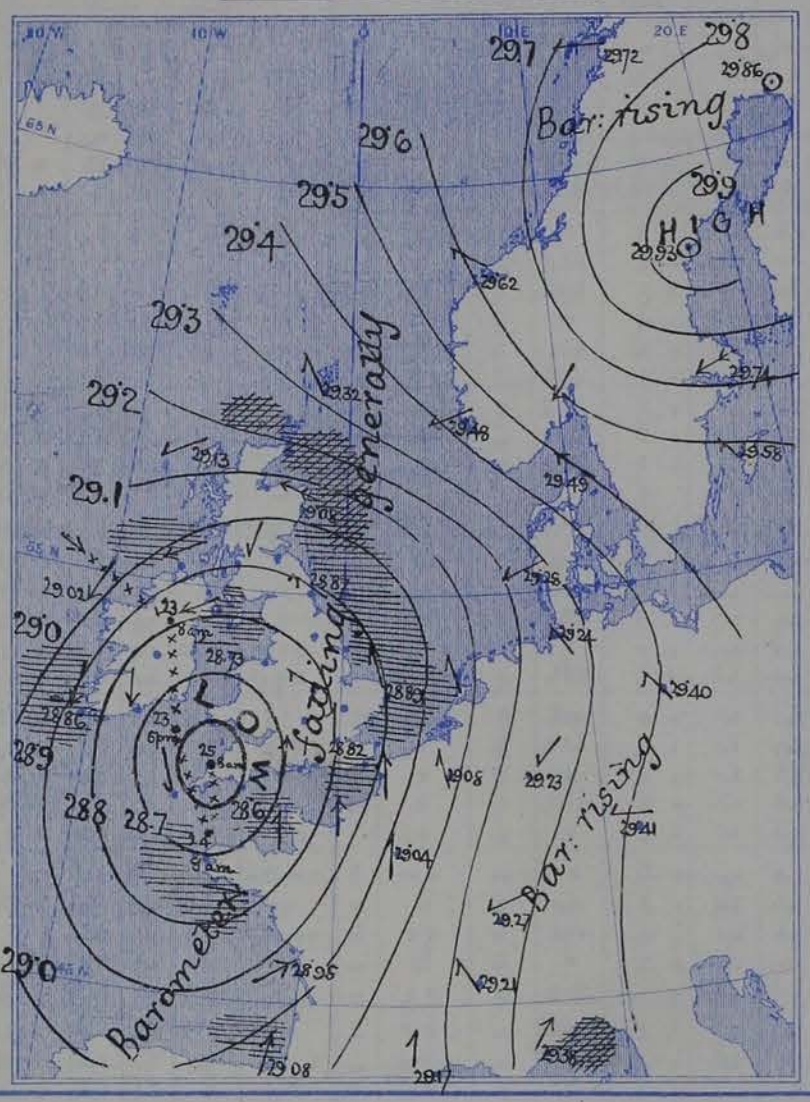
BAROMETER—Isobars are drawn for each tenth of an inch.

WIND—Arrows shew Directions and Force, *flying with the wind.*

Force above 10 ⟶ ; *Force 5 to 7* ⟶ ; *Force 1 to 4* ⟶ ; } Calm ⊙

Force 8 to 10 ⟶ ;

SEA—*Rough* ▤ ; *High* ▤

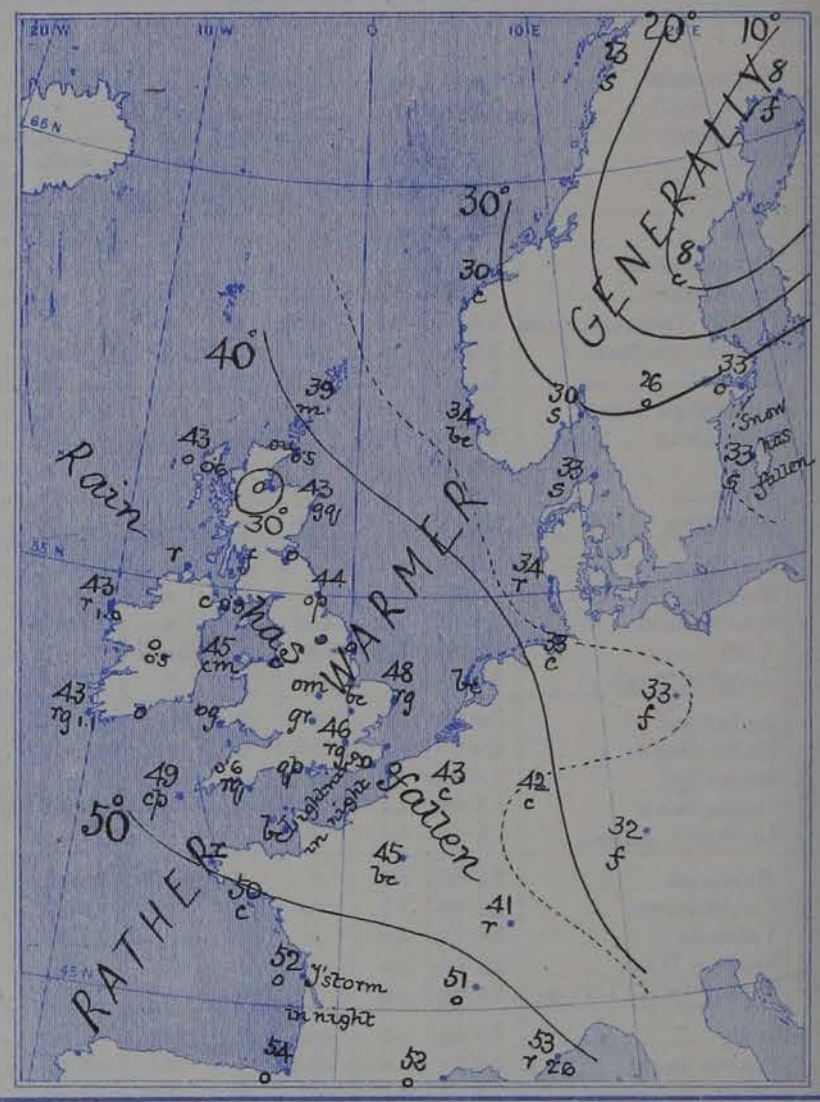


TEMPERATURE & WEATHER.

TEMPERATURE—Isotherms are drawn for each 10°.

WEATHER—Shown by Letters of the Beaufort Scale.

RAINFALL—{ *A dotted line separates areas where rain has fallen from those without rain. The fall in past 24 hours when exceeding half an inch is shown thus*—0·6.



VALUES FOR PRESSURE, TEMPERATURE, RAINFALL, AND BRIGHT SUNSHINE
IN THE MONTH OF NOVEMBER.

STATIONS.	PRESSURE AT 8 A.M. Means, 1871—95.	TEMPERATURE OF AIR. 1871-95. Means of				Absolute Extremes.				RAINFALL. Means, 1866—95.	BRIGHT SUNSHINE. Means, 1881—95.	
		Dry Bulb 8 a.m.	Wet Bulb 8 a.m.	Daily Maximum.	Daily Minimum.	Maximum	Years.	Minimum.	Years.		Hours.	Per cent. of possible.
	(*Inches.*)	°	°	°	°	°		°		(*Inches.*)		
Sumburgh Head	29·693	42·3	40·6	45·8	38·2	55	1890	21	1875	4·14	—	—
Stornoway	29·703	42·0	41·0	46·4	37·1	56	1881	20	1880	4·80	42·1	18
Wick	29·728	41·6	40·1	46·2	36·4	58	1885, 89	15	1884	2·93	—	—
Nairn	29·743	40·0	38·4	45·7	35·5	61	1885, 94	18	1880	2·14	—	—
Aberdeen	29·772	40·7	38·9	46·3	36·7	62	1872, 89	15	1880, 84	3·16	54·7	23
Leith	29·798	41·8	40·1	48·2	37·1	64	1872	18	1885	2·05	—	—
Shields	29·824	42·4	40·8	47·6	38·0	62	1881, 94	20	1880	2·39	—	—
Spurn Head	29·854	43·5	42·2	47·1	40·4	61*	1894, 95	28*	1884	2·28	—	—
York	29·859	40·9	39·7	47·7	36·6	62	1894, 95	14	1871	2·21	39·7	16
Loughborough	29·888	40·7	39·5	48·4	36·7	63*	1881, 93, 94, 95	19*	1887, 93	2·21	—	—
Ardrossan	29·799	43·3	41·6	47·9	39·2	69	1872	21	1880	3·78	—	—
Malin Head	29·755	43·9	42·0	48·0	40·9	—	—	—	—	—	—	—
Belmullet	29·799	45·3	43·3	49·4	41·5	—	—	—	—	5·92	—	—
Donaghadee	29·819	43·4	42·3	48·5	39·4	60	1894	27	1878, 83	3·10	—	—
Holyhead	29·845	45·9	44·2	49·8	42·9	62	1881	29	1880	3·96	—	—
Liverpool	29·862	42·7	40·9	48·0	39·7	63	1872	22	1880	2·81	—	—
Parsonstown	29·852	41·8	40·3	49·1	37·0	62	1874	20	1890	2·86	63·1	25
Valencia	29·867	47·4	45·5	52·3	42·9	63	1881	27	1890	5·63	63·8	25
Roche's Point	29·869	46·2	44·6	51·2	42·0	61	1875	27	1890	4·79	—	—
Pembroke	29·871	47·1	45·4	50·3	43·6	58	1884, 95	28	1890	4·04	58·8	23
Scilly	29·898	50·1	48·1	52·6	46·6	60	1875, 81	29	1890	3·80	—	—
Prawle Point	29·917	46·4	44·9	51·2	42·1	61*	1881	19*	1890	3·26	—	—
Jersey	29·937	48·0	46·0	52·3	44·3	64	1874, 81	16	1890	4·19	70·9	28
Hurst Castle	29·912	45·3	44·3	50·7	41·0	66	1874	20	1890	3·11	—	—
Dover	29·904	44·7	43·3	49·7	40·9	61	1895	17	1890	3·30	—	—
LONDON	29·910	42·5	41·1	49·6	38·3	65	1894	19	1879	2·31	29·5†	11†
Oxford	29·908	41·4	40·2	48·5	37·7	68	1881	19	1871, 87	2·42	55·4	22
Cambridge	29·901	41·0	40·1	48·9	36·0	65	1895	15	1890	2·07	61·7	24
Yarmouth	29·879	43·4	42·2	47·7	39·2	60	1895	23	1890	2·92	—	—

* Extremes of temperature at these Stations are from observations made during the 15 years—1881-95. † The Sunshine values are for Westminster.

GENERAL SITUATION AT 8 A.M.

PRESSURE

Highest, 29·9 in: to 29·7 in: over Sweden, and exceeding 29·4 in: over Germany and the north of Italy.
Lowest, 28·6 in: and less, in a depression, the central area of which lies over Cornwall.
Gradients rather steep generally.
Barometer still falling generally, but slowly and very uniformly.

TEMPERATURE

Highest, 52° to 50° along the southwest coasts of France, 50° at Huntcliffe, 51° at Dungeness.
Lowest, 38° to 43° at the Scotch stations, 30° at Christiansund, and only 8° F at Hernösand and Haparanda.
The changes during yesterday were irregular, but in the night it has risen fast in most parts of our Islands.

WIND

Still cyclonic in direction (E in the north, N in the west, W to S in the south, and SE in the east), blowing hard at the northern stations. In the more southern districts it is going down.

WEATHER

Still dull unsettled and showery everywhere, but no snow is reported today.
Rain fell everywhere, and at some western stations the amounts measured this morning are large, at Nice 2·6 in: is reported.
Lightning occurred at some southern stations. Bright Sunshine recorded yesterday amounted to 3 hrs at Scilly, at most stations there was none.

SEA

Very high in the north, and rough generally, but going down at the southern stations.

PROBABLE CHANGES IN SYSTEM NOW PREVALENT

The depression in the southwest is moving northwards very slowly, and decreasing in intensity. Improving weather is probable.

FORECASTS

For the 24 hours ending at NOON on 26TH Nov.R 1898

DISTRICTS.		FORECASTS.
▼ 0	SCOTLAND NORTH	E to SE gales and strong winds, showery.
1	SCOTLAND EAST	
2	ENGLAND N.E.	Wind veering to S. and SW., very fresh; showery.
3	ENGLAND EAST	
4	MIDLAND COUNTIES	
5	ENGLAND SOUTH	
▼ 6	SCOTLAND WEST	E and NE winds, strong; rainy.
7	ENGLAND N.W.	E to SE winds, moderate, with improving weather.
8	ENGLAND S.W.	N and NW winds; dull, squally, rain at times.
▼ 9	IRELAND NORTH	
10	IRELAND SOUTH	

WARNINGS

At 10·20 am today to districts 7. 8. & 10. "Lower Cone".

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

YESTERDAY'S 2 P.M. REPORTS.

	BAR.	THER. Dry.	THER. Wet.	WIND. Direc.	F.	WEA.	SEA.
Skudesnaes ...	29.62	34	29	E	6	b	4
Sumburgh Head	29.83	41	37	S	6	o	6
Stornoway	29.22	41	39	NE	3	r	3
Aberdeen	29.21	41	37	SE	6	oqqp	8
Shields	29.09	43	42	E	5	r	5
Ardrossan	29.05	37	37	NE	3	rf	2
Malin Head ...	29.05	39	39	ENE	5	r	4
Belmullet	29.16	41	39	NNW	11	o	*
Holyhead	28.86	42	41	E	4	cm	3

	BAR.	THER. Dry.	THER. Wet.	WIND. Direc.	F.	WEA.	SEA.
Valencia	29.01	44	41	N	8	qmqr	6
Scilly	28.67	50	48	N	5	eqp	5
Jersey	28.76	50	48	ESE	7	c	6
Hurst Castle ...	28.81	50	47	S	4	c	3
Dungeness ...	28.95	45	44	SSE	6	o	5
North Foreland	28.99	43	42	SE	6	o	4
London (Westminster)	28.91	44	42	SE	3	o2p	#
Yarmouth ...	29.02	45	42	ESE	7	cqp	5
Rochefort ...	28.91	51	46	WSW	6	r	#

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

Continental Information not received.

EXPLANATION OF THE 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.

N.B.—The morning observations are now made at 8 a.m. in the British Islands, Belgium, Germany, Sweden, and Norway, at 7 a.m. in France, and at 9 a.m. in Spain and Portugal. The evening observations are made at 8 p.m. at Oxford, but at 6 p.m. at the other stations in the British Islands and in France ; at 8 p.m. in Sweden, Norway and Germany. The time at each Station is the Standard Time of its Country.

Subscriptions both for the Daily *and* Weekly Weather Reports *may be paid, in advance, to the* Meteorological Office.

TERMS : For Daily Weather Report, forwarded by Book Post, £1 0 0 per annum.
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DAILY WEATHER REPORT

for 8 a.m. on Saturday, 26th November, 1898.

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

	STATIONS.	YESTERDAY EVENING. (See note at bottom of last page.)					THIS MORNING. (See note at bottom of last page.)								PAST 24 HOURS.				
		Barom.	Temp.	Wind.		Weather	Barometer.		Temperature.			Wind.		Weather.	Sea (0 to 9.)	Weather.	Hours of Bright Sunshine.	Temp.		Rainfall.
		At 32° and M.S.L.	Dry Bulb.	Direc.	Force (0 to 12.)		At 32° Fahr. and M. S. L.	Change since Yesterday.	Dry Bulb.	Wet Bulb.	Change since Yesterday.	Direc.	Force (0 to 12.)					Max.	Min.	
		Ins.	°				Ins.	Ins.	°	°	°							°	°	Ins.
Scandinavia	Haparanda ...	29.90	5	SW	0	0	29.71	-.15	17	16	+9	SE	2	0	*	0	*	?	-11	-
	Hernösand ...	29.76	22	N	2	0	29.78	-.15	24	24	+16	N	2	0	*	0	*	24	9	0.20
	Stockholm ...	29.60	33	E	2	0	29.56	-.18	35	35	+2	SW	0	4	*	0	*	35	30	0.08
	Wisby	29.60	35	SSE	4	0	29.53	-.05	39	39	+6	ESE	2	4	*	0	*	39	28	0.04
	Karlstad ...	29.59	29	NNE	2	0	29.54	-.16	31	31	+5	N	2	0	*	S.O.S	*	*	*	0.08
	Bodö	29.68	27	E	2	0	29.52	-.20	23	20	0	E	2	b	1	0	*	27	21	-
	Christiansund ...	29.57	26	ESE	2	bc	29.54	-.08	33	30	+3	SSE	2	0	4	bc	*	34	25	-
	Skudesnaes ...	29.47	37	ENE	2	c	29.42	-.06	36	33	+2	SW	0	0	2	0.c	*	37	34	*
	Færder (Christiania Fjord)	29.56	31	N	4	0	29.50	-.11	32	30	+2	NNE	6	0	3	0	*	32	28	0.12
	Skagen (The Scaw)	29.47	39	ESE	2	m	29.38	-.11	39	38	+6	ENE	3	m	0	m	*	39	33	0.12
	Fanö	29.33	38	E	4	m	29.16	-.12	42	41	+8	ENE	5	0	*	m	*	42	34	-
British Islands.	Sumburgh Head	29.43	41	E	5	0	29.44	+.12	39	36	0	NE	2	c	4	0	*	41	35	0.02
	Stornoway ...	29.29	43	ENE	4	0	29.45	+.32	41	39	-2	ENE	3	0	3	0	0.0	45	37	0.03
	Wick	29.32	41	ESE	8	r	29.42	+.28	40	38	-5	NE	5	c	6	r	*	45	39	0.15
	Nairn	29.24	42	E	4	r	29.38	+.33	40	39	+2	E	2	r	2	r	*	42	37	0.30
	Aberdeen ...	29.16	44	E	9	ogrq	29.30	+.22	40	39	-3	NE	6	ogqr	9	grq	0.0	45	39	0.69
	Leith	29.00	45	ENE	1	r	29.22	+.28	43	42	-2	NE	3	c	*	r	*	47	40	0.73
	Shields	28.97	48	E	2	cp	29.11	+.24	48	47	+4	NE	3	c	4	op	*	48	42	0.51
	Spurn Head ...	28.95	48	SE	4	c	29.02	+.21	45	45	-2	NE	2	r	3	c.r	*	48	45	0.18
	York	28.93	44	SSE	1	c	29.07	+.24	40	40	-5	NNW	1	c	*	c	0.0	49	39	0.01
	Loughborough ...	28.91	45	ESE	1	c	29.03	+.25	42	42	-2	N	1	rfg	*	cp.b,of	*	49	38	v.09
	Ardrossan ...	28.99	40	NNE	3	cf	29.23	+.31	42	41	+1	NE	3	o	2	of.of	*	45	40	0.02
	Malin Head ...	29.01	46	NE	7	rq	29.29	+.37	45	42	+1	NE	6	op	5	oqr	*	47	42	0.13
	Belmullet ...	29.06	47	NE	6	oqp	29.34	+.32	47	44	+4	NE	6	bcqp	*	oqp	*	48	39	0.47
	Donaghadee ...	29.01	47	NE	7	c	29.18	+.33	45	44	0	ENE	7	bc	6	c	*	47	44	-
	Liverpool (Bidston)	28.88	44	E	3	r	29.09	+.34	41	40	-2	N	1	c	?	pm	*	46	39	0.13
	Holyhead ...	28.80	46	E	5	c	29.09	+.36	48	46	+3	NE	3	cm	2	r.cm	*	48	44	0.03
	Parsonstown ...	28.86	44	NW	2	o	29.19	+.36	44	43	+4	NW	1	o	*	or	0.0	45	39	0.70
	Valencia ...	28.92	48	NNE	5	oq	29.21	+.35	48	45	+5	NNE	6	oq	6	oq	0.0	49	41	0.15
	Roche's Point ..	28.99	45	NNE	6	cp	29.11	+.34	45	44	+4	N	5	bc	3	cp	*	46	40	0.15
	Pembroke (St. Ann's Hd.)	28.90	47	SSW	3	r	29.04	+.42	44	42	-1	ENE	3	oq	3	c.tlr	1.4	49	43	0.10
	Scilly	28.65	48	E	1	r	28.92	+.32	49	47	0	NE	4	cp	2	cp.r	2.1	54	44	0.34
	Prawle Point ...	28.78	49	SSW	4	c	28.97	+.33	43	42	-5	N	3	cp	3	c.tlr	*	50	41	0.25
	Jersey (St. Aubin's)	28.84	51	SSW	5	cq	28.97	+.20	47	45	-3	SE	4	cq	4	bcp	*	55	45	0.08
	Hurst Castle ...	28.86	49	S	4	p	28.97	+.26	45	44	-5	NE	3	cm	2	cp	*	51	44	0.83
	Dungeness ...	28.97	52	SSE	6	c	28.98	+.12	48	46	-3	S	4	c	4	cq	*	53	47	0.03
	North Foreland	28.97	50	SE	5	bc	28.99	+.12	47	46	+4	SSE	4	rq	3	o.bc	*	51	43	0.05
	London (Brixton) ...	28.93	45	S	1	cmdp	28.98	+.16	43	42	-3	SE	1	o	*	cp.or	1.3	52	41	0.66
	Oxford	28.94	45	SE	2	c	29.02	+.27	42	42	-3	NNE	1	op	*	cp	*	49	41	0.19
	Cambridge ...	28.95	43	SSE	1	cm	29.01	+.19	42	42	-1	E	1	gmr	*	cm	1.2	51	36	0.46
	Yarmouth ...	28.99	48	SSE	4	bc	28.99	+.10	45	44	-3	SW	0	rm	4	cg.bc	*	49	43	0.55
Germany & Holland.	Cuxhaven ...	29.28	39	SSE	2	bc	29.04	+.20	40	39	+7	E	4	op	*	bc	*	41	33	0.08
	Berlin	29.39	42	SE	3	b	29.12	-.28	40	40	+7	E	2	o	*	b	*	43	33	-
	Wiesbaden ...	*	*	*	*	*	29.17	-.16	40	39	-2	SE	2	o	*	*	*	46	37	0.04
	Munich	29.21	33	SW	2	b	29.29	-.12	42	40	+10	SW	6	r	*	b	*	50	32	0.04
	The Helder ...	29.13	43	SE	1	c	28.98	-.08	42	42	+1	E	1	r	0	c	*	50	41	0.12
Belgium.	Brussels ...	*	*	*	*	*	29.08	.00	40	39	-3	SSW	2	r	*	o	*	52	39	0.24
	Cape Gris Nez ...	?	48	S	4	bc	?	?	44	41	-2	SSE	5	o	5	bc	*	52	41	0.04
	Paris	29.04	42	E	3	r	29.05	+.01	37	36	-8	N	1	b	*	r	*	45	36	0.43
	Brest	28.75	50	E	4	o	28.84	+.15	46	45	-2	ENE	3	o	3	o	*	50	41	0.20
	Lorient	28.82	48	SW	5	r	28.86	+.06	48	48	-2	SW	4	o	4	r	*	55	45	0.67
France &	Rochefort ...	28.95	51	SW	6	r	29.04	+.09	48	47	-4	SW	3	r	*	rh	*	55	44	0.98
	Belfort	29.13	42	E	3	r	29.25	-.02	37	36	-4	N	1	b	*	r	*	43	36	0.43
	Lyons	29.06	47	SE	2	r	29.28	+.07	41	40	-10	S	2	bc	*	r	*	51	37	1.18
	Nice																*			
	Perpignan ...	29.13	49	W	2	b	29.33	+.16	50	44	-3	S	3	b	*	b	*	59	39	-
	Biarritz ...	29.07	54	SW	7	o	29.21	+.13	53	50	-1	SSW	5	b	5	o,l	*	55	48	-
Peninsula.	Corunna ...																*			
	Lisbon	29.86	65	WSW	5	b	29.60	+.09	52	49	+2	WNW	5	bc	*	b	*	57	50	0.47
	Azores (P. Delgada)	29.98	67	NNW	2	bc	29.95	-.04	58	52	+3	NNE	3	c	2	bc	*	63	55	-

For Explanation of Columns, see bottom of last page. † *Received too late for Insertion in Charts on next page.*

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Bright Sunshine yesterday Southport 0.0 hrs;

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FOR Saturday, 26th November, 1898

BAROMETER, WIND AND SEA.

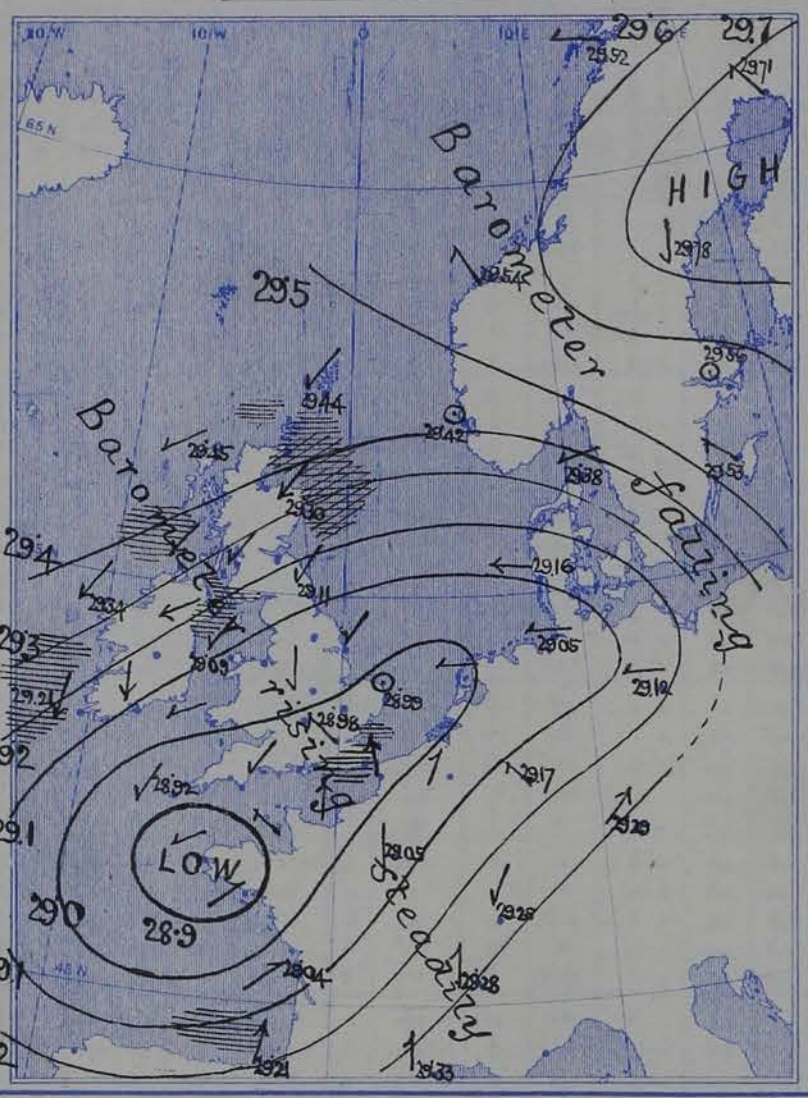
BAROMETER—Isobars are drawn for each tenth of an inch.

WIND—Arrows shew Directions and Force, flying with the wind.

Force above 10 ⟶⟶ ; Force 5 to 7 ⟶ ; } Calm ⊙

Force 8 to 10 ⟶ ; Force 1 to 4 ⟶ ; }

SEA—Rough ≋ ; High ▬



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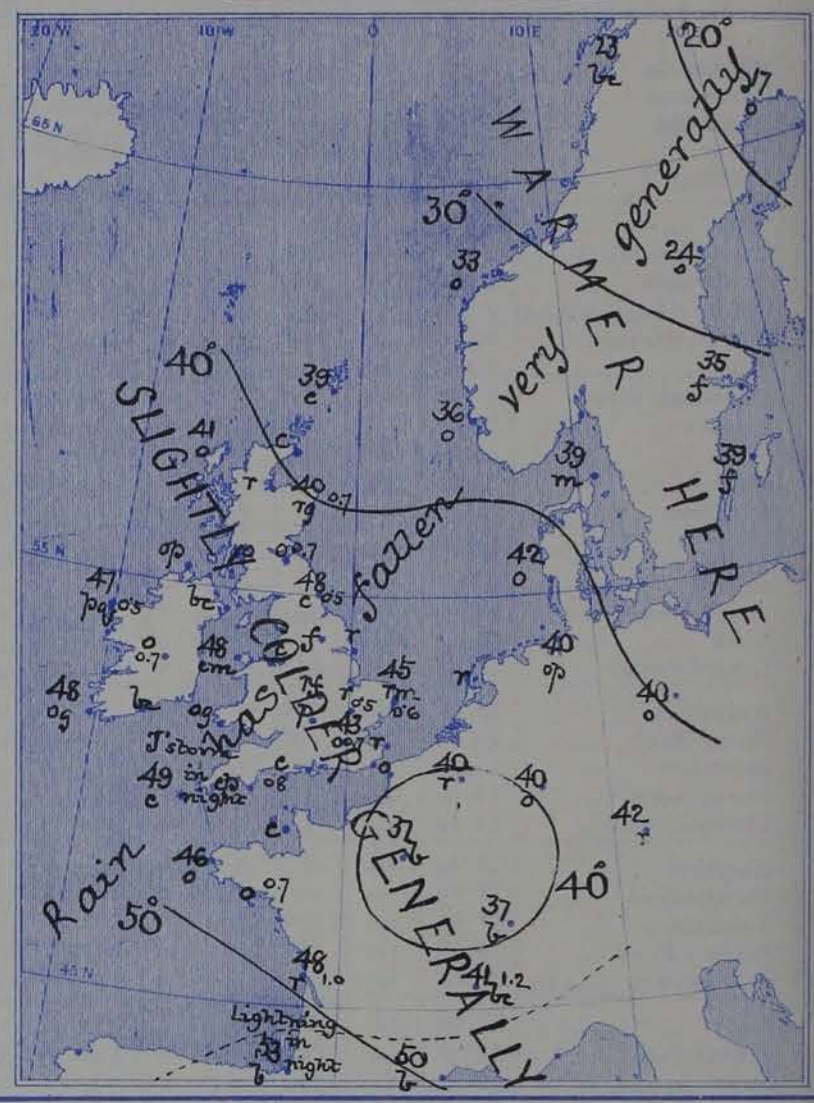
RAINFALL—A dotted line separates areas where rain has fallen from those without rain. The fall in past 24 hours when exceeding half an inch is shown thus—0·6.



VALUES FOR PRESSURE, TEMPERATURE, RAINFALL, AND BRIGHT SUNSHINE
IN THE MONTH OF NOVEMBER.

STATIONS.	PRESSURE AT 8 A.M. Means, 1871—95.	TEMPERATURE OF AIR. 1871-95. Means of				Absolute Extremes.				RAINFALL. Means, 1866—95.	BRIGHT SUNSHINE. Means, 1881—95.	
		Dry Bulb 8 a.m.	Wet Bulb 8 a.m.	Daily Maximum.	Daily Minimum.	Maximum	Years.	Minimum.	Years.		Hours.	Per cent. of possible.
	(*Inches.*)	°	°	°	°	°		°		(*Inches.*)		
Sumburgh Head	29 · 693	42 · 3	40 · 6	45 · 8	38 · 2	55	1890	21	1875	4 · 14	—	—
Stornoway	29 · 703	42 · 0	41 · 0	46 · 4	37 · 1	56	1881	20	1880	4 · 80	42 · 1	18
Wick	29 · 728	41 · 6	40 · 1	46 · 2	36 · 4	58	1885, 89	15	1884	2 · 93	—	—
Nairn	29 · 743	40 · 0	38 · 4	45 · 7	35 · 5	61	1885, 94	18	1880	2 · 14	—	—
Aberdeen	29 · 772	40 · 7	38 · 9	46 · 3	36 · 7	62	1872, 89	15	1880, 84	3 · 16	54 · 7	23
Leith	29 · 798	41 · 8	40 · 1	48 · 2	37 · 1	64	1872	18	1885	2 · 05	—	—
Shields	29 · 824	42 · 4	40 · 8	47 · 6	38 · 0	62	1881, 94	20	1880	2 · 39	—	—
Spurn Head	29 · 854	43 · 5	42 · 2	47 · 1	40 · 4	61*	1894, 95	28*	1884	2 · 28	—	—
York	29 · 859	40 · 9	39 · 7	47 · 7	36 · 6	62	1894, 95	14	1871	2 · 21	39 · 7	16
Loughborough	29 · 888	40 · 7	39 · 5	48 · 4	36 · 7	63*	1881, 93, 94, 95	19*	1887, 93	2 · 21	—	—
Ardrossan	29 · 799	43 · 3	41 · 6	47 · 9	39 · 2	69	1872	21	1880	3 · 78	—	—
Malin Head	29 · 755	43 · 9	42 · 0	48 · 0	40 · 9	—	—	—	—	—	—	—
Belmullet	29 · 799	45 · 3	43 · 3	49 · 4	41 · 5	—	—	—	—	5 · 92	—	—
Donaghadee	29 · 819	43 · 4	42 · 3	48 · 5	39 · 4	60	1894	27	1878, 83	3 · 10	—	—
Holyhead	29 · 845	45 · 9	44 · 2	49 · 8	42 · 9	62	1881	29	1880	3 · 96	—	—
Liverpool	29 · 862	42 · 7	40 · 9	48 · 0	39 · 7	63	1872	22	1880	2 · 81	—	—
Parsonstown	29 · 852	41 · 8	40 · 3	49 · 1	37 · 0	62	1874	20	1890	2 · 86	63 · 1	25
Valencia	29 · 867	47 · 4	45 · 5	52 · 3	42 · 9	63	1881	27	1890	5 · 63	63 · 8	25
Roche's Point	29 · 869	46 · 2	44 · 6	51 · 2	42 · 0	61	1875	27	1890	4 · 79	—	—
Pembroke	29 · 871	47 · 1	45 · 4	50 · 3	43 · 6	58	1884, 95	28	1890	4 · 04	58 · 8	23
Scilly	29 · 898	50 · 1	48 · 1	52 · 6	46 · 6	60	1875, 81	29	1890	3 · 80	—	—
Prawle Point	29 · 917	46 · 4	44 · 9	51 · 2	42 · 1	61*	1881	19*	1890	3 · 26	—	—
Jersey	29 · 937	48 · 0	46 · 0	52 · 3	44 · 3	64	1874, 81	16	1890	4 · 19	70 · 9	26
Hurst Castle	29 · 912	45 · 3	44 · 3	50 · 7	41 · 0	66	1874	20	1890	3 · 11	—	—
Dover	29 · 904	44 · 7	43 · 3	49 · 7	40 · 9	61	1895	17	1890	3 · 30	—	—
LONDON	29 · 910	42 · 5	41 · 1	49 · 6	38 · 3	65	1894	19	1879	2 · 31	29 · 5†	11†
Oxford	29 · 908	41 · 4	40 · 2	48 · 5	37 · 7	68	1881	19	1871, 87	2 · 42	55 · 4	22
Cambridge	29 · 901	41 · 0	40 · 1	48 · 9	36 · 0	65	1895	15	1890	2 · 07	61 · 7	24
Yarmouth	29 · 879	43 · 4	42 · 2	47 · 7	39 · 2	60	1895	23	1890	2 · 92	—	—

* Extremes of temperature at these Stations are from observations made during the 15 years—1881-95. † The Sunshine values are for Westminster.

GENERAL SITUATION AT 8 A.M.

PRESSURE

Highest 29·7 ins: and more over Scandinavia, and exceeding 29·3 ins: in the south of France.
Lowest, 28·9 ins: and less. over Brittany, and below 29 ins all over our southern counties and the north of France, as well as in Holland.
Gradients still rather steep over our northern districts and the North Sea, moderate elsewhere.
Barometer rising in our Islands and France, falling over Scandinavia and Germany.

TEMPERATURE

Highest, 53° to 48° along the west and south coasts of France, and above 40° over our Islands generally.
Lowest, 17° at Haparanda. 24° at Hernösand, 31° at Karlstad, but is inclined to rise.
The maxima recorded yesterday exceeded 50° on our southern coasts and the French coast only; it touched 59° at Perpignan.

WIND

NE¼ to N¾ at all our northern and western stations, and blow strongly in some places; Variable (SE¾ and Calm) over our southeastern counties, but SW¼ to S¾ in France.
The gales recently noticed have died down.

WEATHER

Cloudy and unsettled generally, with rain at times and fog in parts of England.
Rain has fallen generally, and in many places the fall has been considerable.
Bright Sunshine recorded yesterday was slight at the southern stations (2·5 hrs to 0·5 hr). In the north there was none.

SEA

Still very high in the Scotch coasts, but has gone down considerably in the south.

PROBABLE CHANGES IN SYSTEM NOW PREVALENT

The depression in the southwest is still filling up, and although a little complicated this morning is not of a dangerous character.

FORECASTS

For the 24 hours ending at NOON on 27th Nov.r 1898

DISTRICTS.	FORECASTS.
0 SCOTLAND NORTH	NE¾ winds, fresh to moderate; colder, showery, perhaps snow.
1 SCOTLAND EAST	
2 ENGLAND N.E.	
3 ENGLAND EAST	E¾ winds; cold, rainy, unsettled.
4 MIDLAND COUNTIES	Same as Nos 0 to 2.
5 ENGLAND SOUTH	Variable and E¾ winds; rain at times, foggy and gloomy.
6 SCOTLAND WEST	NE¾ winds, moderate to light; showery, but improving, colder.
7 ENGLAND N.W.	
8 ENGLAND S.W.	
9 IRELAND NORTH	
10 IRELAND SOUTH	
WARNINGS	NONE ISSUED.

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

YESTERDAY'S 2 P.M. REPORTS.

	BAR.	THER. Dry.	THER. Wet.	WIND. Direc.	F.	WEA.	SEA.
Skudesnaes ...	29.47	37	32	ENE	6	o	4
Sumburgh Head	29.39	40	37	SSE	5	o	6
Stornoway	29.19	45	43	E	3	o	3
Aberdeen	29.10	44	42	E	9	o g r q	9
Shields	28.90	47	47	E	4	o p	5
Ardrossan	28.92	45	45	NNE	3	o f	2
Malin Head ...	28.94	46	44	NE	1	o q r	5
Belmullet	29.00	45	43	NE	6	q p	*
Holyhead	28.73	46	45	E	4	c m	3

	BAR.	THER. Dry.	THER. Wet.	WIND. Direc.	F.	WEA.	SEA.
Valencia	28.86	46	43	NNE	5	o q	5
Scilly	28.64	50	47	NW	4	c p	3
Jersey	28.81	51	49	SSE	5	b c p	5
Hurst Castle ...	28.77	51	47	SSW	4	c q p	3
Dungeness ...	28.90	52	50	S	1	c	6
North Foreland	28.92	50	48	SSE	6	o	4
London (Westminster)	28.84	51	47	SSW	3	p	*
Yarmouth ...	28.92	49	47	SSE	5	c q	5
Rochefort ...	28.98	51	50	SW	6	r	*

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

Weather in morning still very disturbed over the whole of Western Europe, but fair and comparatively quiet in the east and southeast. Rain falling later at all the western stations, the amount being in many cases large. Halos, *Parhelions observed over the south of England.

Temperatures rising all over the British Islands and France. Morning readings highest 67° at Constantinople, 65° at Malta and Palermo, and 50° to 55° along the west coast of France. Lowest 4° at Uleaborg, 8° at Hernosand, and below the freezing point over the northern parts of Europe and Central Russia, 38° at Nairn, 39° at Sumburgh Head. Rising to between 50° and 55° over France and the south of England later, and to 59° at Perpignan.

Wind remaining cyclonic all over western Europe, E. in the north, S. to W. in the south, and still blowing hard at the northern stations. Anticyclonic in the east and north of Europe.

Barometer 30·0 in. and more to 29·5 in. over the northern and eastern countries, as well as in the extreme southeast. Lowest 28·6 in. and less, in a depression over Cornwall – the gradients being steep in most of the western district. Rising later over our Islands generally, as well as over the coasts of Western Europe, falling in the north.

EXPLANATION OF THE 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.

N.B.—The morning observations are now made at 8 a.m. in the British Islands, Belgium, Germany, Sweden, and Norway, at 7 a.m. in France, and at 9 a.m. in Spain and Portugal. The evening observations are made at 8 p.m. at Oxford, but at 6 p.m. at the other stations in the British Islands and in France; at 8 p.m. in Sweden, Norway and Germany. The time at each Station is the Standard Time of its Country.

Subscriptions both for the Daily *and* Weekly Weather Reports *may be paid, in advance, to the* Meteorological Office.

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DAILY WEATHER REPORT

for 8 a.m. on Sunday 27th November, 1898.

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

	STATIONS.	YESTERDAY EVENING. (See note at bottom of last page.)					THIS MORNING. (See note at bottom of last page.)								PAST 24 HOURS.				
		Barom.	Temp.	Wind.		Weather	Barometer.		Temperature.			Wind.		Weather.	Sea (0 to 9.)	Weather.	Hours of Bright Sunshine.	Temp.		Rainfall.
		At 32° and M.S.L.	Dry Bulb.	Direc.	Force (0 to 12.)		At 32° Fahr. and M. S. L.	Change since Yesterday.	Dry Bulb.	Wet Bulb.	Change since Yesterday.	Direc.	Force (0 to 12.)					Max.	Min.	
		Ins.	°				Ins.	Ins.	°	°	°							°	°	Ins.
Scandinavia	Haparanda ...	29.56	7	Z	0	bc	29.60	-.11	-1	-2	-18	N	2	b	*	bc	*	16	-1	—
	Hernösand ...	29.39	22	Z	0	0	29.42	-.36	25	24	+1	NE	4	S	*	0	*	25	21	—
	Stockholm ...	29.35	37	E	6	r	29.03	-.53	39	38	+4	NE	4	r	*	r	*	39	32	—
	Wisby	29.17	42	SE	8	0	29.17	-.36	41	40	+2	WSW	8	b	*	0	*	43	32	0.04
	Karlstad ...														*		*	*	*	
	Bodö	29.58	19	E	4	b	29.60	+.08	21	16	-2	E	4	b	1	b	*	23	18	—
	Christiansund ...	29.47	29	ESE	4	b	29.40	-.14	28	26	-5	ESE	4	b	4	b	*	30	26	—
	Skudesnaes ...	29.21	37	NE	2	b	29.06	-.36	37	35	+1	N	4	0	2	b	*	37	34	*
	Færder (Christiania Fjord)	29.27	31	NNE	7	0	29.13	-.37	31	31	-1	NE	6	S	3	0	*	34	30	—
	Skagen (The Scaw)	29.11	37	E	4	r	29.04	-.34	41	40	+2	SSW	3	m	0	r	*	41	39	0.67
	Fanö	29.02	42	SSW	4	c	28.91	-.25	41	39	-1	SE	4	c	*	c	*	43	41	0.35
	Sumburgh Head	29.33	37	NNE	1	b	29.24	-.20	40	35	+1	NE	4	0	6	b	*	43	35	—
	Stornoway ...	29.33	41	E	1	c	29.33	-.12	36	35	-5	ENE	3	0	3	b.c	1.5	43	34	—
	Wick	29.33	40	N	5	c	29.27	-.15	40	39	0	N	5	c	4	c	*	42	38	0.04
	Nairn	29.31	41	E	2	0	29.25	-.13	40	37	0	E	2	bc	1	0	*	42	32	0.05
	Aberdeen ...	29.26	39	N	4	c	29.19	-.11	39	36	-1	NW	5	cq	5	c	0.0	42	35	0.19
British Isles.	Leith	29.22	40	N	4	0	29.18	-.04	39	37	-4	N	2	b	*	0	*	43	37	0.11
	Shields	29.10	46	NNE	4	r	29.09	-.02	47	46	-1	NW	3	r	5	uprh	*	44	38	0.29
	Spurn Head ...	28.94	45	N	6	r	29.03	+.01	41	41	-4	WNW	5	ogr	5	org	*	47	41	0.42
	York	29.03	45	NW	1	r	29.10	+.03	39	37	-1	W	2	bp	*	r	0.0	47	38	0.15
	Loughborough ...	29.06	45	NW	1	r	29.13	+.10	35	35	-7	WNW	1	bw	*	or.p.o.b	*	46	35	0.24
	Ardrossan ...	29.24	42	N	2	0	29.20	-.03	37	36	-5	Z	0	b	0	0	*	43	36	—
	Malin Head ...	29.30	44	N	5	c	29.19	-.10	40	39	-5	SE	2	cp	2	bc.c	*	45	38	—
	Belmullet ...	29.44	45	N	4	bc	29.13	-.21	39	38	-8	E	5	0	*	cpq.bc	*	47	35	0.17
	Donaghadee ...	29.23	44	NE	7	r	29.17	-.01	42	40	-3	NE	7	c	5	r	*	46	39	0.42
	Liverpool (Bidston)	29.13	45	NNW	2	0	29.16	+.07	38	36	-3	Z	0	bc	1	0	*	46	37	—
	Holyhead ...	29.16	47	N	4	0	29.11	+.02	43	42	-5	ENE	2	op	1	0	*	49	42	0.24
	Parsonstown ...	29.33	43	NE	1	0	29.11	-.08	38	37	-6	Z	0	or	*	0	0.0	45	36	0.12
	Valencia ...	29.41	47	NNE	5	0q	29.10	-.11	46	41	-2	NW	5	cq	5	cqq	0.3	49	43	0.26
	Roche's Point ...	29.32	46	N	5	c	29.09	-.02	43	43	-2	N	3	r	4	e,r	*	48	40	0.15
	Pembroke (St. Ann's Hd.)	29.15	45	NE	3	c	29.17	+.13	46	41	+2	WNW	4	bc	4	e	2.6	48	42	0.20
	Scilly	29.15	49	N	5	cp	29.20	+.28	47	45	-2	WNW	4	cp	1	cp	2.1	53	43	0.17
	Prawle Point ...	29.13	44	N	2	c	29.21	+.24	42	40	-1	NW	2	c	1	c	*	50	40	0.08
	Jersey (St. Aubin's)	29.08	46	NE	2	c	29.24	+.24	45	44	-2	W	3	dp	3	c	*	48	38	0.66
	Hurst Castle ...	29.06	45	NW	2	c	29.16	+.19	41	40	-4	WNW	1	cm	1	cm.cm	*	50	40	—
	Dungeness ...	29.02	47	W	4	c	29.13	+.15	42	42	-6	W	2	c	1	cq.c	*	50	40	0.02
	North Foreland	29.01	45	SW	2	0	29.11	+.12	44	43	-3	SW	2	0	2	0	*	47	43	0.07
	London (Brixton) ...	29.05	44	NNE	2	od	29.13	+.15	41	40	-2	WNW	1	c	*	dp	0.0	51	40	0.07
	Oxford	29.08	44	WNW	2	r	29.16	+.14	42	41	0	W	1	0	*	or	*	45	41	0.11
	Cambridge ...	29.01	44	NNW	2	r	29.13	+.12	41	40	-1	NW	2	0	*	r	0.0	45	39	0.35
	Yarmouth ...	28.88	45	W	3	r	29.02	+.03	42	41	-3	WNW	4	rq	5	rmg.g	*	46	40	1.02
Germany & Holland.	Cuxhaven ...	29.07	41	SW	2	0	28.91	-.13	40	40	0	S	5	0	*	0	*	41	39	—
	Berlin	29.28	40	S	2	b	29.17	+.05	37	35	-3	SE	2	b	*	b	*	46	36	0.04
	Wiesbaden ...	*	*	*	*	*	29.23	+.06	36	35	-4	SW	1	c	*	*	*	?	36	—
	Munich	29.41	35	SE	3	b	29.26	-.03	36	35	-6	SW	7	0	*	b	*	46	32	0.04
	The Helder ...	28.87	42	SSW	5	r	28.83	-.15	48	46	+6	W	4	r	5	r	*	48	41	0.67
Belgium.	Brussels ...	*	*	*	*	*	29.12	+.04	41	40	+1	SW	3	c	*	bc	*	45	38	0.04
	Cape Gris Nez ...	?	49	NW	6	r	?	?	46	43	+2	NNW	3	0	1	r	*	50	41	0.12
	Paris	29.15	44	S	2	0	29.18	+.13	43	43	+6	S	2	r	*	0	*	46	43	0.12
	Brest	29.10	46	NNE	2	0	29.30	+.46	50	45	+4	NW	4	c	3	0	*	52	41	—
	Lorient	29.08	45	N	4	b	29.32	+.46	49	46	+1	NW	5	c	5	b	*	54	45	—
France &	Rochefort ...	29.10	52	WSW	7	0	29.31	+.27	50	48	+2	NW	4	thr	*	0	*	54	41	0.59
	Belfort	29.27	49	SW	3	0	29.30	+.05	40	38	+3	SSW	4	0	*	0	*	52	37	0.79
	Lyons	29.27	50	SSW	2	0	29.39	+.11	43	42	+2	S	3	r	*	0	*	54	40	0.43
	Nice	29.49	49	SW	4	b	29.55		44	39		Z	0	b	8	br	*	57	43	0.95
	Perpignan ...	29.27	50	SW	1	r	29.52	+.19	38	37	-12	SW	1	b	*	r	*	63	36	0.12
	Biarritz ...	29.28	53	SW	5	c	29.48	+.27	50	48	-3	SW	6	0	4	c	*	55	36	0.08
Penin-sula.	Corunna ...																*			
	Lisbon	29.81	50	NW	4	0	29.94	+.34	51	48	-1	WNW	2	b	*	0	*	59	48	0.04
	Azores (P. Delgada)	30.03	51	NNE	3	b	30.07	+.12	53	51	-5	NNE	1	b	2	b	*	64	52	—

For Explanation of Columns, see bottom of last page. † *Received too late for Insertion in Charts on next page.*

NOTE: *The Sunshine for London given in this Table is now recorded on the tower of the Wesleyan Training College, Westminster.*

Bright Sunshine yesterday Southport 0·0 hrs;

WEATHER CHARTS

FOR Sunday, 27th November, 1898

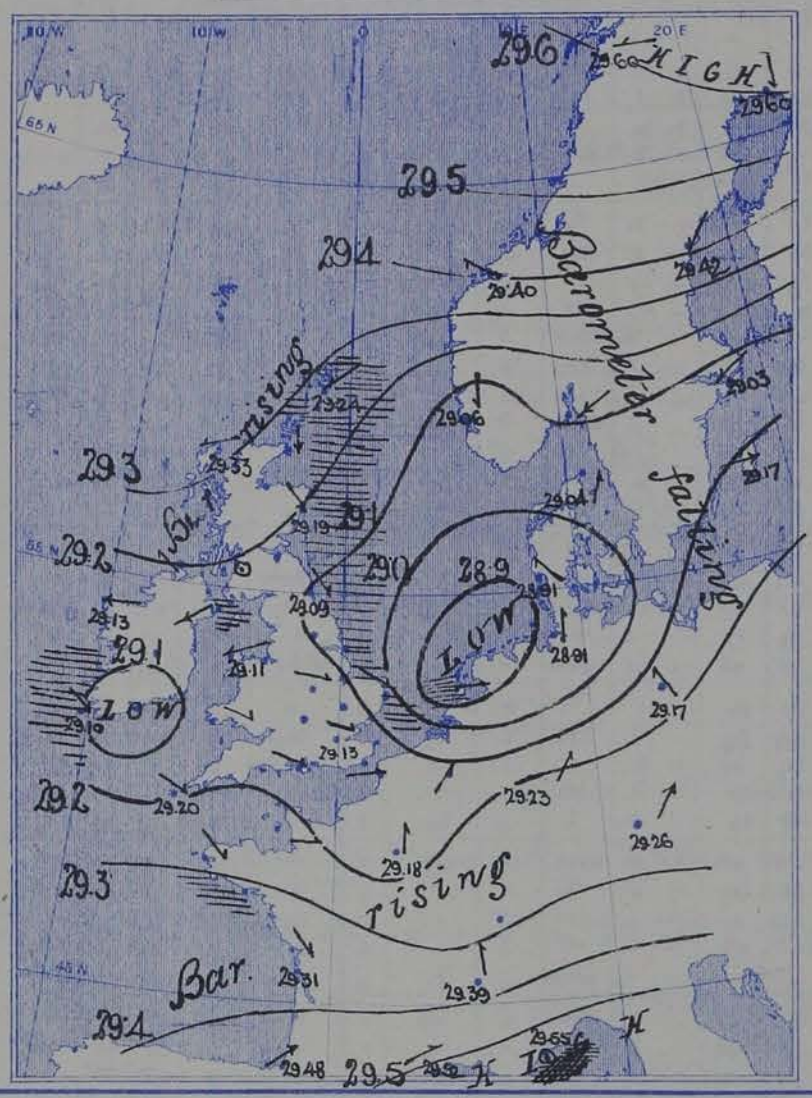
BAROMETER, WIND AND SEA.

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

WIND—Arrows shew Directions and Force, flying with the wind.

Force above 10 ⟫⟶ ; *Force 5 to 7* ⟶ ; *Force 8 to 10* ⟩⟶ ; *Force 1 to 4* ⟶ ; Calm ⊙

SEA—*Rough* ; *High*



TEMPERATURE & WEATHER.

TEMPERATURE—Isotherms are drawn for each 10°.

WEATHER—Shown by Letters of the Beaufort Scale.

RAINFALL—*A dotted line separates areas where rain has fallen from those without rain. The fall in past 24 hours when exceeding half an inch is shown thus*—0·6.

VALUES FOR PRESSURE, TEMPERATURE, RAINFALL, AND BRIGHT SUNSHINE
IN THE MONTH OF NOVEMBER.

STATIONS.	PRESSURE AT 8 A.M. Means, 1871—95.	TEMPERATURE OF AIR. 1871-95. Means of				Absolute Extremes.				RAINFALL. Means, 1866—95.	BRIGHT SUNSHINE. Means, 1881—95.	
		Dry Bulb 8 a.m.	Wet Bulb 8 a.m.	Daily Maximum.	Daily Minimum.	Maximum	Years.	Minimum.	Years.		Hours.	Per cent. of possible.
	(*Inches.*)	°	°	°	°	°		°		(*Inches.*)		
Sumburgh Head	29 · 693	42 · 3	40 · 6	45 · 8	38 · 2	55	1890	21	1875	4 · 14	—	—
Stornoway	29 · 703	42 · 0	41 · 0	46 · 4	37 · 1	56	1881	20	1880	4 · 80	42 · 1	18
Wick	29 · 728	41 · 6	40 · 1	46 · 2	36 · 4	58	1885, 89	15	1884	2 · 93	—	—
Nairn	29 · 743	40 · 0	38 · 4	45 · 7	35 · 5	61	1885, 94	18	1880	2 · 14	—	—
Aberdeen	29 · 772	40 · 7	38 · 9	46 · 3	36 · 7	62	1872, 89	15	1880, 84	3 · 16	54 · 7	23
Leith	29 · 798	41 · 8	40 · 1	48 · 2	37 · 1	64	1872	18	1885	2 · 05	—	—
Shields	29 · 824	42 · 4	40 · 8	47 · 6	38 · 0	62	1881, 94	20	1880	2 · 39	—	—
Spurn Head	29 · 854	43 · 5	42 · 2	47 · 1	40 · 4	61*	1894, 95	28*	1884	2 · 28	—	—
York	29 · 859	40 · 9	39 · 7	47 · 7	36 · 6	62	1894, 95	14	1871	2 · 21	39 · 7	16
Loughborough	29 · 888	40 · 7	39 · 5	48 · 4	36 · 7	63*	1881, 93, 94, 95	19*	1887, 93	2 · 21	—	—
Ardrossan	29 · 799	43 · 3	41 · 6	47 · 9	39 · 2	69	1872	21	1880	3 · 78	—	—
Malin Head	29 · 755	43 · 9	42 · 0	48 · 0	40 · 9	—	—	—	—	—	—	—
Belmullet	29 · 799	45 · 3	43 · 3	49 · 4	41 · 5	—	—	—	—	5 · 92	—	—
Donaghadee	29 · 819	43 · 4	42 · 3	48 · 5	39 · 4	60	1894	27	1878, 83	3 · 10	—	—
Holyhead	29 · 845	45 · 9	44 · 2	49 · 8	42 · 9	62	1881	29	1880	3 · 96	—	—
Liverpool	29 · 862	42 · 7	40 · 9	48 · 0	39 · 7	63	1872	22	1880	2 · 81	—	—
Parsonstown	29 · 852	41 · 8	40 · 3	49 · 1	37 · 0	62	1874	20	1890	2 · 86	63 · 1	25
Valencia	29 · 867	47 · 4	45 · 5	52 · 3	42 · 9	63	1881	27	1890	5 · 63	63 · 8	25
Roche's Point	29 · 869	46 · 2	44 · 6	51 · 2	42 · 0	61	1875	27	1890	4 · 79	—	—
Pembroke	29 · 871	47 · 1	45 · 4	50 · 3	43 · 6	58	1884, 95	28	1890	4 · 04	58 · 8	23
Scilly	29 · 898	50 · 1	48 · 1	52 · 6	46 · 6	60	1875, 81	29	1890	3 · 80	—	—
Prawle Point	29 · 917	46 · 4	44 · 9	51 · 2	42 · 1	61*	1881	19*	1890	3 · 26	—	—
Jersey	29 · 937	48 · 0	46 · 0	52 · 3	44 · 3	64	1874, 81	16	1890	4 · 19	70 · 9	26
Hurst Castle	29 · 912	45 · 3	44 · 3	50 · 7	41 · 0	66	1874	20	1890	3 · 11	—	—
Dover	29 · 904	44 · 7	43 · 3	49 · 7	40 · 9	61	1895	17	1890	3 · 30	—	—
LONDON	29 · 910	42 · 5	41 · 1	49 · 6	38 · 3	65	1894	19	1879	2 · 31	29 · 5†	11†
Oxford	29 · 908	41 · 4	40 · 2	48 · 5	37 · 7	68	1881	19	1871, 87	2 · 42	55 · 4	22
Cambridge	29 · 901	41 · 0	40 · 1	48 · 9	36 · 0	65	1895	15	1890	2 · 07	61 · 7	24
Yarmouth	29 · 879	43 · 4	42 · 2	47 · 7	39 · 2	60	1895	23	1890	2 · 92	—	—

* Extremes of temperature at these Stations are from observations made during the 15 years—1881-95. † The Sunshine values are for Westminster.

GENERAL SITUATION AT 8 A.M.

PRESSURE

Highest (1) 29.6 ins. to 29.3 ins. over the more northern countries. (2) 29.9 ins. at Lisbon, and 29.5 ins. to 29.3 ins. over the southern countries of Europe.
Lowest, 28.9 ins. on the southeastern side of the North Sea, and 29.1 ins. and less, in a new depression over the southwest of Ireland.
Gradients not steep anywhere.
Barometer rising in the northwest of our Islands.

TEMPERATURE

Highest about 50° along the west coast of France, 46° at Valencia
Lowest – 1° F. at Haparanda, 25° at Hernösand, 28° at Christiansund, (2) 36° at Munich and Wiesbaden, 37° at Berlin, (3) 35° over Central England.
It did not reach 50° yesterday except at our most southern stations, but touched 50° to 54° in several parts of France and 63° at Perpignan.

WIND

Mainly NE at our most northern stations, but NW to SW over France, SW in Germany, and less strong than of late, although still blowing hard in some places – eg from NE. at Donaghadee, and from WSW. at Vichy.

WEATHER

Still showery in places, but fair in many others.
Heavy rain has fallen at Yarmouth, and showers in many other places
Bright Sunshine was very deficient yesterday, nil at many stations, about 2 hrs in the southwest.

SEA

Still rough in the north and northeast, and at Valencia and Yarmouth, smooth in the English Channel.

PROBABLE CHANGES IN SYSTEM NOW PREVALENT

FORECASTS

For the 24 hours ending at NOON on 28th Nov. 1898

DISTRICTS.	FORECASTS.	DISTRICTS.	FORECASTS.
0 SCOTLAND NORTH		6 SCOTLAND WEST	
1 SCOTLAND EAST		7 ENGLAND N.W.	
2 ENGLAND N.E.	NONE ISSUED	8 ENGLAND S.W.	NONE ISSUED.
3 ENGLAND EAST		9 IRELAND NORTH	
4 MIDLAND COUNTIES		10 IRELAND SOUTH	
5 ENGLAND SOUTH			
		WARNINGS	NONE ISSUED.

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

YESTERDAY'S 2 P.M. REPORTS.

	BAR.	THER. Dry.	THER. Wet.	WIND. Direc.	F.	WEA.	SEA.
Sldesnaes ...	29.34	37	34	NE	2	b	2
Suburgh Head	29.38	39	37	NE	1	be	4
Stenoway	29.39	43	41	E	3	c	3
Abdeen	29.28	41	39	N	5	ogq	7
Shalls	29.11	48	47	NNE	3	cprw	4
Ardrssan	29.25	43	41	NE	3	a	2
MelinHead ...	29.31	45	41	N	5	be	4
Belmulet	29.44	45	42	NE	5	cpq	*
Holyhead	29.12	48	46	NNE	3	cph	2

	BAR.	THER. Dry.	THER. Wet.	WIND. Direc.	F.	WEA.	SEA.
Valencia	29.34	48	44	NNE	5	cq	5
Scilly	29.08	49	47	N	4	p	1
Jersey	29.03	48	46	SSE	4	og	3
Hurst Castle ...	29.02	47	46	N	4	om	1
Dungeness ...	28.99	49	47	SSW	4	cq	3
North Foreland	28.99	46	45	SW	2	c	2
London (Westminster)	29.00	46	45	NE	1	cdp	*
Yarmouth ...	28.92	44	43	WSW	3	rmg	4
Rochefort ...	29.06	50	48	W	5	r	*

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

Weather in morning cloudy and showery, but less so than of late over the western half of our Islands and in the south, more disturbed over the Baltic and Continental Europe. Rain falling later in varying quantities over the bulk of the United Kingdom, but large quantities of rain over the North Sea and Continental Europe (more than an inch at Yarmouth), and thunder reported in the south of France.

Temperature in morning, fallen a little over England and France, risen over the more northern countries. Morning readings highest 66° at Malta and Lesina, and above 60° at several other stations in Southeastern Europe, the Adriatic, and Mediterranean, 53° at Biarritz. Lowest 10° F. at Archangel, 17° at Haparanda, and below 40° over northern Europe generally, as well as over Central France. Rising a little in France during day, but falling still over our Islands.

Wind NE³ at the northern and western stations, SW¹ to S³ over southern and eastern countries; variable in between these two main currents. The northerly current growing less strong in our Islands during day, the SW³ increasing in strength over the southwest of France.

Barometer rising at first at the western stations, falling in the east and north. The depression lately observed now lying over Brittany, but others developing near Yarmouth, and over the Baltic not far from Riga. This process continuing later till at 6pm well defined disturbances were formed in the east and north.

EXPLANATION OF THE 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.

N.B.—The morning observations are now made at 8 a.m. in the British Islands, Belgium, Germany, Sweden, and Norway, at 7 a.m. in France, and at 9 a.m. in Spain and Portugal. The evening observations are made at 8 p.m. at Oxford, but at 6 p.m. at the other stations in the British Islands and in France; at 8 p.m. in Sweden, Norway and Germany. The time at each Station is the Standard Time of its Country.

Subscriptions both for the Daily *and* Weekly Weather Reports *may be paid, in advance, to the* Meteorological Office.

TERMS: For Daily Weather Report, forwarded by Book Post, £1 0 0 per annum.
„ Weekly „ „ „ £1 10 0 „

DAILY WEATHER REPORT

for 8 a.m. on Monday, 28th November, 1898.

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

	STATIONS.	YESTERDAY EVENING. (See note at bottom of last page.)					THIS MORNING. (See note at bottom of last page.)								PAST 24 HOURS.				
		Barom.	Temp.	Wind.		Weather	Barometer.		Temperature.			Wind.		Weather.	Sea (0 to 9.)	Weather.	Hours of Bright Sunshine.	Temp.		Rainfall.
		At 32° and M.S.L.	Dry Bulb.	Direc.	Force (0 to 12.)		At 32° Fahr. and M. S. L.	Change since Yesterday.	Dry Bulb.	Wet Bulb.	Change since Yesterday.	Direc.	Force (0 to 12.)					Max.	Min.	
		Ins.	°				Ins.	Ins.	°	°	°							°	°	Ins.
Scandinavia.	Haparanda ...	29.50	7	SW	0	0	29.38	-.22	20	19	+21	NE	6	0	*	0	*	?	-8	0.08
	Hernösand ...	29.29	21	NE	14	S	29.29	-.13	22	21	- 3	SW	0	0	*	S	*	25	19	0.71
	Stockholm ...	29.19	35	SW	0	0	29.17	+.15	34	33	- 5	E	2	[illegible]	*	0	*	39	34	0.08
	Wisby	29.15	39	SE	4	b	29.21	+.04	44	42	+ 3	S	6	0	[illegible]	b	*	45	36	-
	Karlstad ...														*		*	*	*	
	Bodö	29.58	21	E	4	b	29.53	-.07	21	19	0	E	2	b	1	b	*	21	16	-
	Christiansund ...	29.36	25	ENE	3	bc	29.34	-.06	29	27	+ 1	ENE	5	0	4	bc	*	29	25	-
	Skudesnaes ...	29.08	34	NNE	2	S	29.15	+.09	31	31	- 6	SW	0	bc	1	0.3	*	31	30	*
	Færder (Christiania Fjord)	29.13	31	NNE	6	0	29.14	+.01	28	28	- 3	NNE	6	S	3	0	*	32	21	3.11
	Skagen (The Scaw)	29.02	42	E	3	r	28.99	-.05	35	35	- 6	NE	6	r	5	r	*	45	35	0.59
	Fanö	28.80	45	SW	5	c	29.16	+.25	42	40	+ 1	WNW	4	c	*	c	*	45	39	0.08
	Sumburgh Head	29.30	37	NNE	6	S	29.46	+.22	32	32	- 8	N	5	0	6	r shgp	*	41	30	0.03
	Stornoway ...	29.50	39	E	4	bc	29.70	+.37	33	32	- 3	NNE	4	bc	4	r shg	0.9	42	30	0.25
	Wick	29.40	41	N	6	bc	29.54	+.27	36	34	- 4	N	7	cu	6	S, bc	*	43	32	0.05
	Nairn	29.42	39	?WNW	3	b	29.60	+.35	34	32	- 6	?WNW	3	0	5	S, b	*	43	30	0.10
	Aberdeen ...	29.29	39	N	6	bc.gs	29.47	+.28	32	32	- 7	NW	4	0 sg	4	0, bc gs	0.0	42	31	0.15
	Leith	29.30	38	NNW	2	bc	29.56	+.38	34	32	- 5	NW	2	0	*	bc	*	46	32	0.03
	Shields	29.24	42	NW	3	c	29.46	+.37	36	35	- 11	NW	3	shp	5	c, shp	*	47	34	0.14
	Spurn Head ...	29.18	44	NW	4	0	29.36	+.33	42	40	+ 1	N	5	cp	5	c gp	*	46	38	0.12
	York	29.23	42	W	1	c	29.46	+.36	35	34	- 4	NNW	2	b	*	c	1.8	46	34	0.04
	Loughborough ...	29.26	34	W	1	b	29.43	+.30	35	34	0	N	3	cm	*	b.bcm, c	*	47	28	-
British Islands.	Ardrossan ...	29.37	37	N	1	b	29.60	+.40	34	33	- 3	N	1	bc	0	b	*	43	33	-
	Malin Head ...	29.43	44	NE	4	bc	29.69	+.50	36	35	- 4	N	6	c r shg	5	bc	*	44	33	0.05
	Belmullet ...	29.50	43	NE	6	c gph	29.80	+.67	40	38	+ 1	NE	7	c	*	bc. shp	*	45	35	0.20
	Donaghadee ...	29.36	45	NNE	6	bc	29.68	+.51	41	39	- 1	NE	8	c	6	bc	*	45	39	0.02
	Liverpool (Bidston)	29.30	40	NE	1	c	29.51	+.35	37	34	- 1	N	3	bc	3	c	*	42	36	-
	Holyhead ...	29.29	45	NE	3	c	29.52	+.41	43	40	0	NNE	5	c	4	r. c	*	46	40	0.18
	Parsonstown ...	29.33	40	NW	1	0	29.69	+.58	34	33	- 4	SW	0	b	*	or. b	0.0	41	32	0.07
	Valencia ...	29.29	43	NNE	8	0 gph	29.75	+.65	42	39	- 4	NNE	6	0 gp	5	c gph	3.7	46	39	0.13
	Roche's Point ...	29.18	43	NE	5	rs	29.64	+.55	38	36	- 5	N	5	b	4	rs	*	44	36	0.48
	Pembroke (St. Ann's Hd.)	29.11	46	ESE	4	bc	29.48	+.31	42	38	- 4	NNE	4	b	3	bc	1.2	47	40	-
	Scilly	29.02	46	NNW	3	pt	29.36	+.16	49	45	+ 2	NNE	8	c	3	o. pt	0.0	49	44	0.77
	Prawle Point ...	29.16	48	ESE	4	0	29.31	+.10	37	36	- 6	NNE	6	0	4	c. or	*	49	32	0.02
	Jersey (St. Aubin's)	29.21	48	SSW	4	bc	29.18	-.03	49	47	+ 4	SW	3	bc	3	tlphr. bc	*	52	44	0.44
	Hurst Castle ...	29.23	44	NE	1	b	29.30	+.11	40	38	- 1	NE	4	0 gm	3	cm, bm	*	49	40	0.03
	Dungeness ...	29.23	43	WNW	1	b	29.31	+.18	41	41	- 1	ENE	4	r	3	bc. b	*	51	40	0.06
	North Foreland	29.27	42	W	2	m	29.34	+.23	45	43	+ 1	N	4	0	3	bc. tl	*	46	38	-
	London (Brixton) ...	29.25	40	WNW	1	c	29.38	+.25	35	34	- 6	NE	1	0	*	bc, 0, b	0.0	45	34	-
	Oxford	29.32	38	NNE	1	c	29.40	+.24	33	32	- 9	NNE	2	0	*	0. c	*	44	31	-
	Cambridge ...	29.26	37	NW	1	b	29.40	+.27	34	33	- 7	NNW	2	0	*	b	5.0	48	30	-
	Yarmouth ...	29.14	43	WNW	3	c	29.32	+.30	35	34	- 7	W	3	bcm	5	c	*	46	32	0.01
Germany & Holland.	Cuxhaven ...	28.93	43	SW	6	0	29.26	+.35	41	40	+ 1	SW	4	0	*	0, r	*	43	39	0.16
	Berlin	29.26	44	SW	3	c	29.46	+.29	40	39	+ 3	SW	3	b	*	c	*	45	37	-
	Wiesbaden ...	*	*	*	*	*	29.54	+.31	43	40	+ 7	SW	1	0	*	*	*	63	36	0.04
	Munich	29.55	41	SW	3	0	29.67	+.41	33	32	- 3	SW	2	b	*	0	*	45	32	0.04
	The Helder ...	29.09	47	W	5	0	29.33	+.50	47	44	- 1	WNW	2	bc	3	0	*	48	45	0.12
Belgium.	Brussels ...	*	*	*	*	*	29.41	+.29	41	40	0	SSE	2	r	*	0	*	44	38	-
	Cape Gris Nez ...	?	49	WNW	2	bc	?	?	42	40	- 4	SE	1	0	2	bc	*	50	39	0.20
	Paris	29.36	45	SSW	2	0	29.35	+.17	44	43	+ 1	S	3	0	*	0	*	47	40	0.35
	Brest	29.18	48	SW	5	r	29.24	-.06	49	46	- 1	WNW	3	c	3	r	*	58	39	0.32
	Lorient	29.19	47	W	6	r	29.21	-.11	49	45	0	NW	3	c	5	r	*	54	43	0.51
France &	Rochefort ...	29.36	51	WSW	4	r	29.28	-.03	48	46	- 2	WSW	3	r	*	klr th, r	*	54	34	0.91
	Belfort	29.42	42	WSW	6	c	29.56	+.26	42	40	+ 2	SW	0	0	*	c	*	48	40	0.12
	Lyons	29.56	46	S	2	0	29.57	+.18	47	42	+ 4	SSW	2	0	*	0	*	50	43	0.04
	Nice	29.59	48	NW	2	b	29.76	+.21	43	40	- 1	E	2	c	?	b	*	?	?	-
	Perpignan ...	29.65	44	SW	0	b	29.57	+.05	38	38	0	S	2	0	*	b	*	60	36	-
	Biarritz ...	29.50	53	SW	3	r	29.40	-.08	51	48	+ 1	S	6	r	4	r	*	57	48	0.28
Peninsula.	Corunna ...														*		*			
	Lisbon	29.95	52	WSW	3	b	29.83	-.11	52	50	+ 1	NW	4	r	*	b	*	59	51	0.28
	Azores (P. Delgada)	30.13	56	ENE	2	c	30.15	+.08	54	52	- 1	NE	1	bc	2	c	*	63	52	-

For Explanation of Columns, see bottom of last page. † *Received too late for Insertion in Charts on next page.*

NOTE: *The Sunshine for London given in this Table is now recorded on the tower of the Wesleyan Training College, Westminster.*

Bright Sunshine yesterday Southport 5.9 hrs;

WEATHER CHARTS

FOR Monday, 28th November, 1898

BAROMETER, WIND AND SEA.

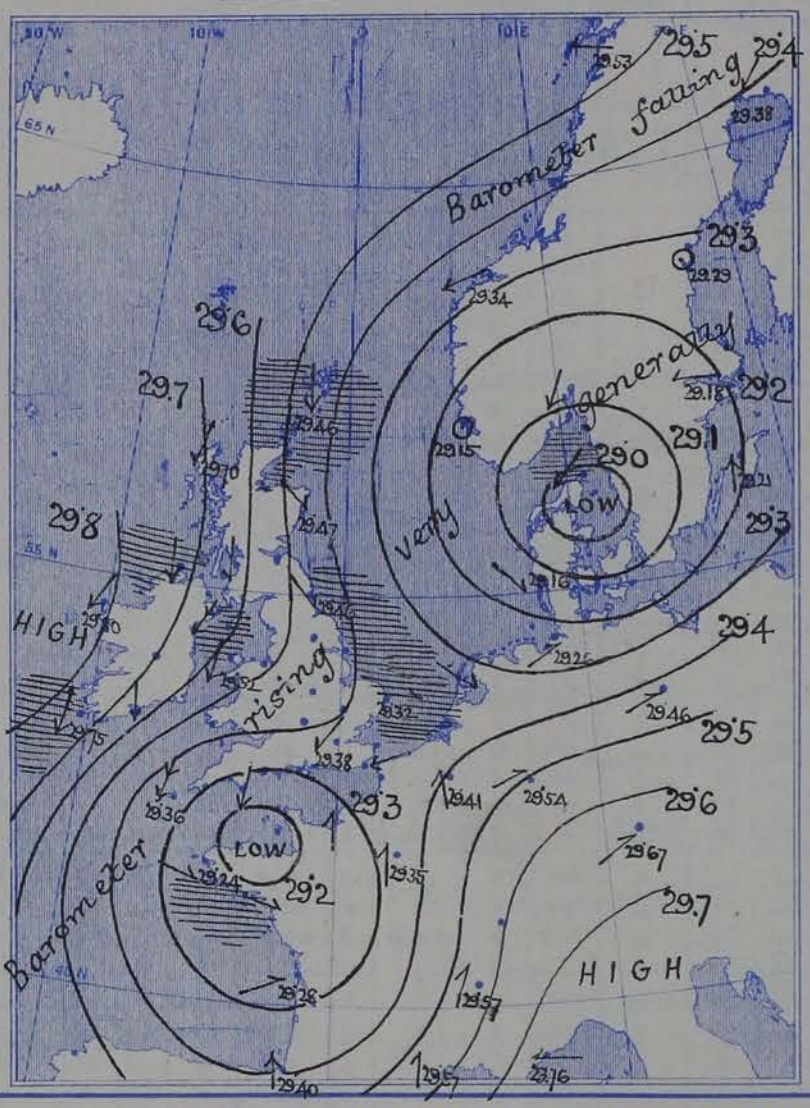
BAROMETER—Isobars are drawn for each tenth of an inch.

WIND—Arrows shew Directions and Force, flying with the wind.

Force above 10 ⟶⟶ ; *Force 5 to 7* ⟶ ; } Calm ⊙

Force 8 to 10 ⟶ ; *Force 1 to 4* ⟶ ; }

SEA—Rough ; *High*

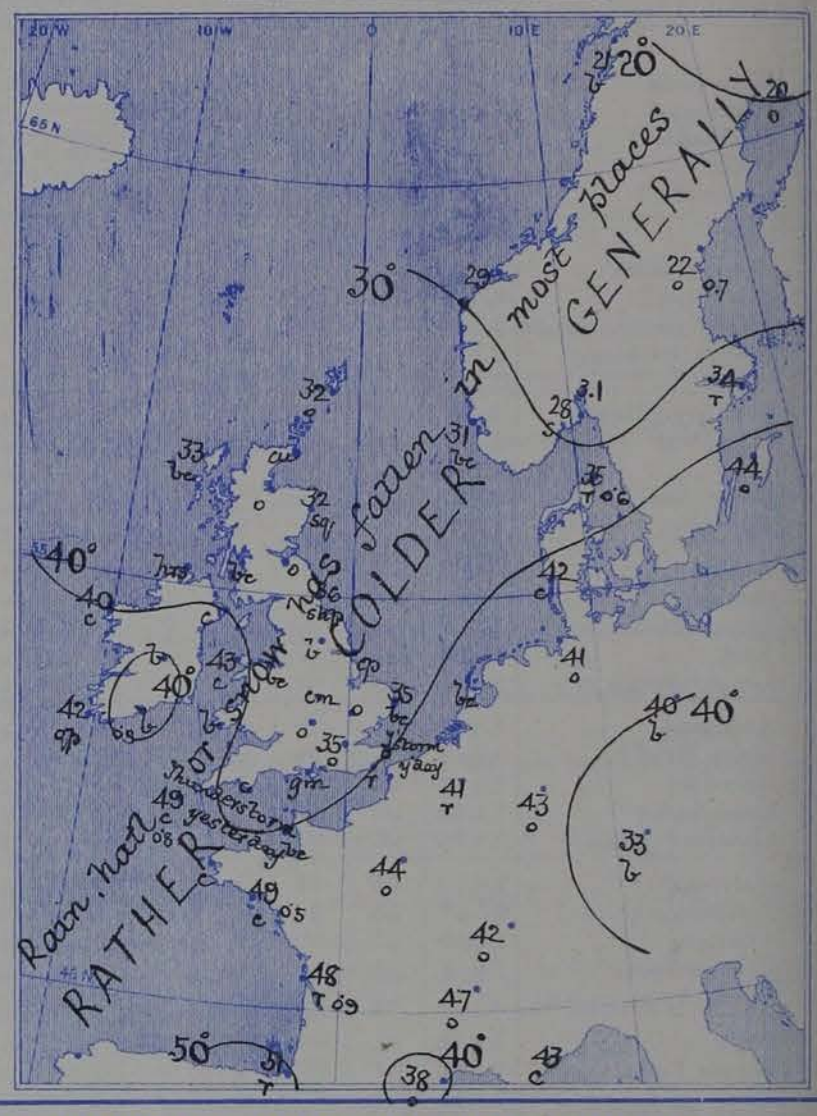


TEMPERATURE & WEATHER.

TEMPERATURE—Isotherms are drawn for each 10°.

WEATHER—Shown by Letters of the Beaufort Scale.

RAINFALL—A dotted line separates areas where rain has fallen from those without rain. The fall in past 24 hours when exceeding half an inch is shown thus—0·6.



VALUES FOR PRESSURE, TEMPERATURE, RAINFALL, AND BRIGHT SUNSHINE IN THE MONTH OF NOVEMBER.

STATIONS.	PRESSURE AT 8 A.M. Means, 1871—95.	TEMPERATURE OF AIR. 1871-95. Means of				Absolute Extremes.				RAINFALL. Means, 1866—95.	BRIGHT SUNSHINE. Means, 1881—95.	
		Dry Bulb 8 a.m.	Wet Bulb 8 a.m.	Daily Maximum.	Daily Minimum.	Maximum	Years.	Minimum.	Years.		Hours.	Per cent. of possible.
	(*Inches.*)	°	°	°	°	°		°		(*Inches.*)		
Sumburgh Head	29 · 693	42 · 3	40 · 6	45 · 8	38 · 2	55	1890	21	1875	4 · 14	—	—
Stornoway	29 · 703	42 · 0	41 · 0	46 · 4	37 · 1	56	1881	20	1880	4 · 80	42 · 1	18
Wick	29 · 728	41 · 6	40 · 1	46 · 2	36 · 4	58	1885, 89	15	1884	2 · 93	—	—
Nairn	29 · 743	40 · 0	38 · 4	45 · 7	35 · 5	61	1885, 94	18	1880	2 · 14	—	—
Aberdeen	29 · 772	40 · 7	38 · 9	46 · 3	36 · 7	62	1872, 89	15	1880, 84	3 · 16	54 · 7	23
Leith	29 · 798	41 · 8	40 · 1	48 · 2	37 · 1	64	1872	18	1885	2 · 05	—	—
Shields	29 · 824	42 · 4	40 · 8	47 · 6	38 · 0	62	1881, 94	20	1880	2 · 39	—	—
Spurn Head	29 · 854	43 · 5	42 · 2	47 · 1	40 · 4	61*	1894, 95	28*	1884	2 · 28	—	—
York	29 · 859	40 · 9	39 · 7	47 · 7	36 · 6	62	1894, 95	14	1871	2 · 21	39 · 7	16
Loughborough	29 · 888	40 · 7	39 · 5	48 · 4	36 · 7	63*	1881, 93, 94, 95	19*	1887, 93	2 · 21	—	—
Ardrossan	29 · 799	43 · 3	41 · 6	47 · 9	39 · 2	69	1872	21	1880	3 · 78	—	—
Malin Head	29 · 755	43 · 9	42 · 0	48 · 0	40 · 9	—	—	—	—	—	—	—
Belmullet	29 · 799	45 · 3	43 · 3	49 · 4	41 · 5	—	—	—	—	5 · 92	—	—
Donaghadee	29 · 819	43 · 4	42 · 3	48 · 5	39 · 4	60	1894	27	1878, 83	3 · 10	—	—
Holyhead	29 · 845	45 · 9	44 · 2	49 · 8	42 · 9	62	1881	29	1880	3 · 96	—	—
Liverpool	29 · 862	42 · 7	40 · 9	48 · 0	39 · 7	63	1872	22	1880	2 · 81	—	—
Parsonstown	29 · 852	41 · 8	40 · 3	49 · 1	37 · 0	62	1874	20	1890	2 · 86	63 · 1	25
Valencia	29 · 867	47 · 4	45 · 5	52 · 3	42 · 9	63	1881	27	1890	5 · 63	63 · 8	25
Roche's Point	29 · 869	46 · 2	44 · 6	51 · 2	42 · 0	61	1875	27	1890	4 · 79	—	—
Pembroke	29 · 871	47 · 1	45 · 4	50 · 3	43 · 6	58	1884, 95	28	1890	4 · 04	58 · 8	23
Scilly	29 · 898	50 · 1	48 · 1	52 · 6	46 · 6	60	1875, 81	29	1890	3 · 80	—	—
Prawle Point	29 · 917	46 · 4	44 · 9	51 · 2	42 · 1	61*	1881	19*	1890	3 · 26	—	—
Jersey	29 · 937	48 · 0	46 · 0	52 · 3	44 · 3	64	1874, 81	16	1890	4 · 19	70 · 9	26
Hurst Castle	29 · 912	45 · 3	44 · 3	50 · 7	41 · 0	66	1874	20	1890	3 · 11	—	—
Dover	29 · 904	44 · 7	43 · 3	49 · 7	40 · 9	61	1895	17	1890	3 · 30	—	—
LONDON	29 · 910	42 · 5	41 · 1	49 · 6	38 · 3	65	1894	19	1879	2 · 31	29 · 5†	11†
Oxford	29 · 908	41 · 4	40 · 2	48 · 5	37 · 7	68	1881	19	1871, 87	2 · 42	55 · 4	22
Cambridge	29 · 901	41 · 0	40 · 1	48 · 9	36 · 0	65	1895	15	1890	2 · 07	61 · 7	24
Yarmouth	29 · 879	43 · 4	42 · 2	47 · 7	39 · 2	60	1895	23	1890	2 · 92	—	—

* Extremes of temperature at these Stations are from observations made during the 15 years—1881-95. † The Sunshine values are for Westminster.

GENERAL SITUATION AT 8 A.M.

PRESSURE

Highest (1) 29·8 in. to 29·5 in. on our western and northern coasts; (2) 29·6 in. to 29·5 in. over the southeastern parts of France & Germany.
Lowest, 29·0 in. and less, in a depression over Denmark, and below 29·2 in. in another over Jersey.
Gradients steep.
Barometer rising fast over our Islands.

TEMPERATURE

Highest, 51° at Biarritz, and much above 40° at many of the French and our southwestern coast stations.
Lowest, Much below 45° at our inland and northern stations.
It rose to 50° or more yesterday at our extreme southern stations and over France (touching 60° in the south of France); at many of the Scotch stations it rose to only a few degrees above 40°. Last night was cold over Great Britain, the grass minima being considerably below 32° in many places.

WIND

N to NE over our Islands and Scandinavia; blowing hard at some of the northern and western stations; over France it is W to S, and of moderate force. A gale has been experienced at some of these places in the night.

WEATHER

Very unsettled generally, and snow showers are reported over Ireland and Scotland, rain in the southwest and south of France. Rain has fallen generally; thunderstorms have occurred in the southwest, and hails have been seen in many regions.
Bright Sunshine was wanting or very slight in the northern and western stations, and in London, but was moderate (4 to 5 hours) in some parts of England, especially on our southeast coast.

SEA

Still rough in the north, east, and west, slight in the south.

PROBABLE CHANGES IN SYSTEM NOW PREVALENT

The general appearance is indicative of cold, showery weather, and N (NW to NE) winds.

FORECASTS

For the 24 hours ending at NOON on 29th Nov. 1898

DISTRICTS.	FORECASTS.	DISTRICTS.	FORECASTS.
0 SCOTLAND NORTH	NE to N winds, fresh or strong; cold showers and squalls, some snow.	6 SCOTLAND WEST	NE to N winds, fresh or strong; cold showers and squalls, some snow.
1 SCOTLAND EAST		7 ENGLAND N.W.	
2 ENGLAND N.E.		8 ENGLAND S.W.	
3 ENGLAND EAST		9 IRELAND NORTH	
4 MIDLAND COUNTIES		10 IRELAND SOUTH	
5 ENGLAND SOUTH		WARNINGS	NONE ISSUED.

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

YESTERDAY'S 2 P.M. REPORTS.

	BAR.	THER. Dry.	THER. Wet.	WIND. Direc.	F.	WEA.	SEA.
Skudesnaes ...	29.06	35	34	NNE	4	o	2
Sumburgh Head							
Stornoway	29.42	42	40	ESE	4	cp	4
Aberdeen							
Shields							
Ardrossan							
Malin Head ...	29.32	41	40	ENE	4	bc	3
Belmullet	29.38	44	41	ENE	4	bc	*
Holyhead							

	BAR.	THER. Dry.	THER. Wet.	WIND. Direc.	F.	WEA.	SEA.
Valencia							
Scilly							
Jersey	29.24	49	46	WNW	3	c	3
Hurst Castle ...							
Dungeness ...	29.19	49	46	WSW	3	bc	3
North Foreland	29.18	43	41	W	2	bc	1
London (Westminster)							*
Yarmouth ...							
Rochefort ...	29.38	49	45	WSW	3	klrh	*

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

Continental Information not received.

SUMMARY OF CHANGES IN THE WEATHER OVER EUROPE FROM THE 20TH TO THE 26TH NOVR 1898.

The weather experienced over Europe, and especially over the western half during this week was of a very unsettled character.

During the first half of the period pressure was continuously highest (30·6 ins: to 30·3 ins:) over the southeastern counties, and a collision of wind currents, caused by the advance of a new high pressure system from the westward caused much rain over the western countries and a fall of temperature.

Then followed a period in which a well marked depression advanced rapidly from the north-north-westward reaching the mouth of the English Channel on Thursday morning remained there till nearly the close of the week—causing heavy and extensive rains and snows in our Islands and Western Europe (3 to 5 ins: in the East of Ireland) and much snow at the northern and northwestern stations.

Pressure now gave way in the southeast, and rough weather spread inland gradually, till the greater part of Continental Europe was involved in unsettled weather, rain and snow. On Friday night and Saturday considerable complication ensued by the formation of fresh depressions over Holland and the north of Europe, and the breaking up of that near Brittany, which subsequently caused heavy falls (snow and rain) in those regions, but the weather cleared up temporarily over England, and temperature changed a good deal.

EXPLANATION OF THE 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.

N.B.—The morning observations are now made at 8 a.m. in the British Islands, Belgium, Germany, Sweden, and Norway, at 7 a.m. in France, and at 9 a.m. in Spain and Portugal. The evening observations are made at 8 p.m. at Oxford, but at 6 p.m. at the other stations in the British Islands and in France; at 8 p.m. in Sweden, Norway and Germany. The time at each Station is the Standard Time of its Country.

Subscriptions both for the Daily *and* Weekly Weather Reports *may be paid, in advance, to the* Meteorological Office.

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" Weekly " " " £1 10 0 "

SCANDINAVIA
BRITISH ISLANDS.
GERMANY & HOLLAND.
FRANCE & BELGIUM.
PENINSULA.

DAILY WEATHER REPORT

for 8 a.m. on Tuesday 29th November, 1898.

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

	STATIONS.	YESTERDAY EVENING. (See note at bottom of last page.)					THIS MORNING. (See note at bottom of last page.)								PAST 24 HOURS.				
		Barom.	Temp.	Wind.		Weather	Barometer.		Temperature.			Wind.		Weather.	Sea (0 to 9.)	Weather.	Hours of Bright Sunshine.	Temp.		Rainfall
		At 32° and M.S.L.	Dry Bulb.	Direc.	Force (0 to 12.)		At 32° Fahr. and M. S. L.	Change since Yesterday.	Dry Bulb.	Wet Bulb.	Change since Yesterday.	Direc.	Force (0 to 12.)					Max.	Min.	
		Ins.	°				Ins.	Ins.	°	°	°							°	°	Ins.
Scandinavia	Haparanda ...	29.38	27	SE	0	o	29.41	+ .03	24	24	+ 4	NE	2	s	#	o	#	27	1	0.20
	Hernösand ...	29.39	20	SE	v	b	29.51	+ .28	10	9	— 12	SE	0	b	#	b	#	22	1	—
	Stockholm ...	29.27	33	N	4	r	29.69	+ .51	24	23	— 10	N	2	o	#	r	#	43	?	0.24
	Wisby	29.35	41	SW	7	*	29.71	+ .50	37	35	— 7	W	4	c	#	r	#	45	36	0.08
	Karlstad ...	29.45	22	NNW	2	o	29.67		17	16		N	2	o	#	o.s	#	#	#	0.12
	Bodö	29.57	21	E	2	b	29.58	+ .05	19	16	— 2	E	2	b	1	b	#	21	18	—
	Christiansund ...	29.52	27	ENE	3	b	29.55	+ .21	26	25	— 3	E	1	b	4	b	#	28	25	—
	Skudesnaes ...	29.39	37	SSE	2	c	29.46	+ .31	35	34	+ 4	SE	2	c	2	c	#	37	28	#
	Færder (Christiania Fjord)	29.45	29	N	4	o	29.60	+ .46	27	26	— 1	ENE	2	c	1	o	#	29	27	0.04
	Skagen (The Scaw)	29.48	33	NNE	1	o	29.55	+ .56	36	35	+ 1	ESE	2	o	o	o	#	39	32	—
	Fanö	29.50	37	SE	o	c	29.41	+ .25	38	38	— 4	NE	2	r	#	c	#	43	36	0.32
British Islands	Sumburgh Head	29.54	35	N	4	b	29.51	+ .05	30	29	— 2	NNE	1	o	4	b, b	#	36	28	0.03
	Stornoway ...	29.72	31	NNE	3	b	29.51	— .19	36	35	+ 3	SW	4	b	4	b	2.5	36	27	0.20
	Wick	29.62	29	N	5	c	29.54	.00	23	23	— 13	N	2	bc	4	c	#	36	20	0.05
	Nairn	29.69	31	S	2	c	29.57	— .03	20	19	— 14	E	0	c	1	c	#	35	18	—
	Aberdeen ...	29.62	32	NW	5	cq	29.59	+ .12	24	23	— 8	SW	2	b	3	sp, bcq	0.8	35	23	0.22
	Leith	29.60	33	WNW	3	bc	29.61	+ .05	24	23	— 10	WNW	1	m	#	bc	#	38	23	—
	Shields	29.52	38	N	5	r	29.60	+ .14	27	27	— 9	W	3	bc	4	chrsp	#	39	26	0.54
	Spurn Head ...	29.43	37	NW	7	o	29.51	+ .15	38	38	— 4	NW	5	cq	5	cq, hp	#	43	35	0.10
	York	29.50	34	N	4	b	29.61	+ .15	29	29	— 6	NW	1	b	#	b sp	0.0	39	28	0.12
	Loughborough ...	29.50	35	N	3	o	29.61	+ .18	34	33	— 1	N	1	ogm	#	cm, cgm	#	39	34	—
	Ardrossan ...	29.66	33	N	2	b	29.60	.00	29	28	— 5	NE	3	of	1	b	#	38	23	—
	Malin Head ...	29.72	40	N	6	bcq	29.54	— .15	37	37	+ 1	SSW	4	r	2	bcq	#	40	34	0.05
	Belmullet ...	29.95	41	N	6	opq	29.62	— .18	45	43	+ 5	NNW	5	o	#	cp, opq	#	46	38	0.20
	Donaghadee ...	29.61	39	NNE	7	bc	29.65	— .03	33	33	— 8	W	4	o	3	bc	#	42	32	—
	Liverpool (Bidston)	29.60	34	NNW	2	bc	29.66	+ .15	38	30	— 4	E	0	c	?	bc	#	38	31	—
	Holyhead ...	29.62	40	NE	7	cpqrsh	29.66	+ .14	40	36	— 3	NW	3	c	2	cprshq	#	43	36	0.01
	Parsonstown ...	29.82	34	N	1	b	29.67	— .02	35	34	+ 1	E	0	or	#	b	6.2	39	31	0.14
	Valencia ...	29.87	41	N	3	op	29.70	— .05	46	44	+ 4	S	2	og	3	bcq op	4.5	47	39	0.10
	Roche's Point ..	29.76	38	N	5	b	29.75	+ .11	40	39	+ 2	WSW	1	o	2	b, r	#	43	37	0.01
	Pembroke (St. Ann's Hd.)	29.57	36	NE	4	b	29.70	+ .22	40	36	— 2	NNW	5	cq	4	b	4.0	44	35	0.20
	Scilly	29.53	42	N	7	cp	29.66	+ .30	45	42	— 4	NNW	7	o	3	ohq, cp	0.4	49	39	0.41
	Prawle Point ...	29.46	38	N	5	o	29.69	+ .38	32	31	— 5	N	2	b	2	o	#	41	31	—
	Jersey (St. Aubin's)	29.28	45	NNW	5	rm											#			
	Hurst Castle ...	29.35	38	NNE	4	rm	29.59	+ .29	34	33	— 6	NW	3	cm	2	rm, rs	#	43	43	0.40
	Dungeness ...	29.24	42	N	4	r	29.47	+ .16	36	36	— 5	NNW	4	c	3	r	#	46	34	0.34
	North Foreland	29.30	44	NE	5	r	29.49	+ .13	41	40	— 4	W	4	c	3	r	#	45	39	0.74
	London (Brixton) ...	29.36	39	N	5	or	29.56	+ .18	35	35	+ 1	NNW	2	o	#	o, r, rsq	0.0	42	35	0.18
	Oxford	29.47	35	N	3	o	29.60	+ .20	35	33	+ 2	NNW	1	o	#	o, rs	#	39	32	0.05
	Cambridge ...	29.43	37	N	5	r	29.56	+ .16	35	35	+ 1	N	2	o	#	rq, rs	0.0	41	32	0.18
	Yarmouth ...	29.34	42	NNE	6	rqq	29.45	+ .13	43	41	+ 8	NNE	5	c	5	rqq	#	44	34	0.37
Germany & Holland	Cuxhaven ...	29.44	41	SW	1	b	29.40	+ .14	41	40	0	SW	2	b	#	b, p	#	43	37	0.28
	Berlin	29.60	40	S	3	c	29.57	+ .11	38	37	— 2	SSE	2	c	#	c	#	46	37	—
	Wiesbaden ...	*	*	*	*	*	29.56	+ .02	41	40	— 2	SE	1	o	#	*	#	48	39	0.04
	Munich	29.58	36	E	5	c	29.69	+ .02	35	34	+ 2	SSW	2	bc	#	c	#	48	33	—
	The Helder ...	29.36	43	ESE	1	r	29.36	+ .03	44	42	— 3	NE	3	r	3	r	#	50	41	0.59
Belgium.	Brussels ...	*	*	*	*	*	29.43	+ .02	42	41	+ 1	SW	3	o	#	o	#	46	39	0.20
	Cape Gris Nez ...	?	46	ESE	4	r	?	?	45	42	+ 3	NNE	6	o	6	r	#	46	37	0.79
	Paris	29.36	43	S	1	b	29.45	+ .10	43	41	— 1	S	2	o	#	o	#	48	42	0.12
	Brest	29.40	44	N	6	o	29.71	+ .47	42	40	— 7	N	3	c	2	o	#	50	36	0.12
	Lorient	29.36	45	NNE	6	o	29.69	+ .48	41	39	— 8	NNW	5	bc	4	c	#	54	39	—
France &	Rochefort ...	29.27	49	S	4	o	29.58	+ .30	43	41	— 5	N	4	o	#	o	#	55	41	0.39
	Belfort	29.60	43	E	3	o	29.59	+ .03	39	?	— 3	NE	1	o	#	o	#	60	37	0.83
	Lyons	29.51	49	SSW	3	r	29.62	+ .05	46	40	— 1	S	2	o	#	r	#	55	44	—
	Nice																#			
	Perpignan ...	29.51	52	SW	2	b	29.70	+ .13	46	42	+ 8	NW	2	o	#	b	#	61	38	—
	Biarritz ...	29.44	51	W	7	r	29.69	+ .29	46	46	— 5	W	6	r	5	blr	#	57	45	0.71
Penin-sula.	Corunna ...																#			
	Lisbon	29.93	53	NW	4	b	30.10	+ .27	48	46	— 4	NNW	3	b	#	b	#	57	46	0.08
	Azores (P. Delgada)	30.22	56	NE	2	bc	30.28	+ .13	51	51	+ 3	NE	2	o	2	bc	#	64	54	—

For Explanation of Columns, see bottom of last page. † *Received too late for Insertion in Charts on next page.*

NOTE: *The Sunshine for London given in this Table is now recorded on the tower of the Wesleyan Training College, Westminster.*

Bright Sunshine yesterday Southport 1·9 hrs.

WEATHER CHARTS

FOR Tuesday, 29 November, 1898

BAROMETER, WIND AND SEA.

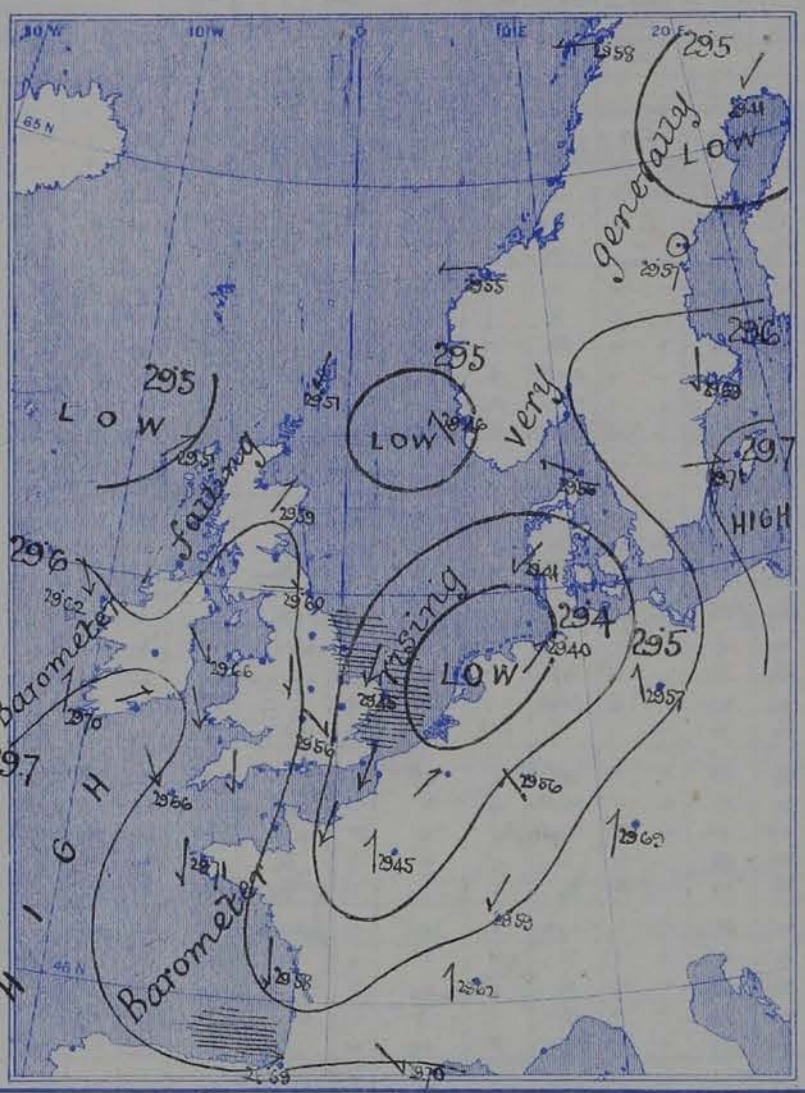
BAROMETER—Isobars are drawn for each tenth of an inch.

WIND—Arrows shew Directions and Force, flying with the wind.

Force above 10 ⟶⟶ ; Force 5 to 7 ⟶ ; } Calm ⊙

Force 8 to 10 ⟶ ; Force 1 to 4 ⟶ ; }

SEA—Rough ▤ ; High ▦

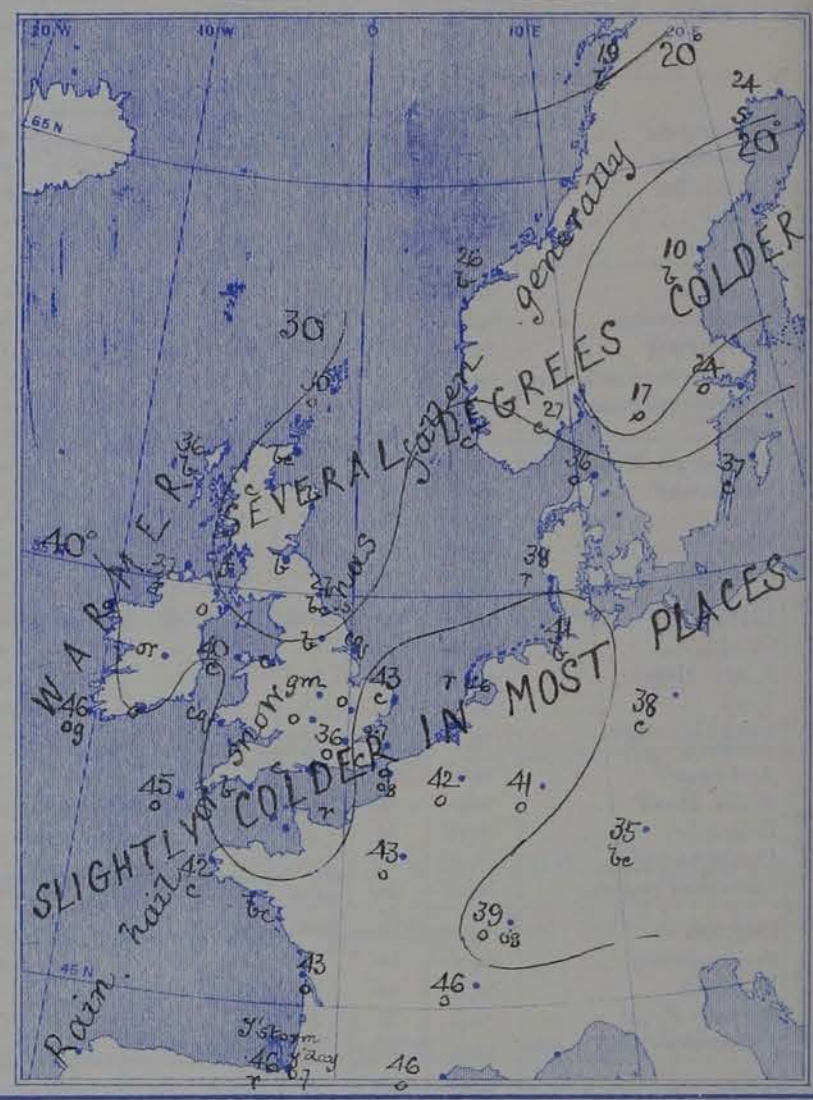


TEMPERATURE & WEATHER.

TEMPERATURE—Isotherms are drawn for each 10°.

WEATHER—Shown by Letters of the Beaufort Scale.

RAINFALL—A dotted line separates areas where rain has fallen from those without rain. The fall in past 24 hours when exceeding half an inch is shown thus—0·6.



VALUES FOR PRESSURE, TEMPERATURE, RAINFALL, AND BRIGHT SUNSHINE
IN THE MONTH OF NOVEMBER.

STATIONS.	PRESSURE AT 8 A.M. Means, 1871—95.	TEMPERATURE OF AIR. 1871-95. Means of				Absolute Extremes.				RAINFALL. Means, 1866—95.	BRIGHT SUNSHINE. Means, 1881—95.	
		Dry Bulb 8 a.m.	Wet Bulb 8 a.m.	Daily Maximum.	Daily Minimum.	Maximum	Years.	Minimum.	Years.		Hours.	Per cent. of possible.
	(*Inches.*)	°	°	°	°	°		°		(*Inches.*)		
Sumburgh Head	29 · 693	42 · 3	40 · 6	45 · 8	38 · 2	55	1890	21	1875	4 · 14	—	—
Stornoway	29 · 703	42 · 0	41 · 0	46 · 4	37 · 1	56	1881	20	1880	4 · 80	42 · 1	18
Wick	29 · 728	41 · 6	40 · 1	46 · 2	36 · 4	58	1885, 89	15	1884	2 · 93	—	—
Nairn	29 · 743	40 · 0	38 · 4	45 · 7	35 · 5	61	1885, 94	18	1880	2 · 14	—	—
Aberdeen	29 · 772	40 · 7	38 · 9	46 · 3	36 · 7	62	1872, 89	15	1880, 84	3 · 16	54 · 7	23
Leith	29 · 798	41 · 8	40 · 1	48 · 2	37 · 1	64	1872	18	1885	2 · 05	—	—
Shields	29 · 824	42 · 4	40 · 8	47 · 6	38 · 0	62	1881, 94	20	1880	2 · 39	—	—
Spurn Head	29 · 854	43 · 5	42 · 2	47 · 1	40 · 4	61*	1894, 95	28*	1884	2 · 28	—	—
York	29 · 859	40 · 9	39 · 7	47 · 7	36 · 6	62	1894, 95	14	1871	2 · 21	39 · 7	16
Loughborough	29 · 888	40 · 7	39 · 5	48 · 4	36 · 7	63*	1881, 93, 94, 95	19*	1887, 93	2 · 21	—	—
Ardrossan	29 · 799	43 · 3	41 · 6	47 · 9	39 · 2	69	1872	21	1880	3 · 78	—	—
Malin Head	29 · 755	43 · 9	42 · 0	48 · 0	40 · 9	—	—	—	—	—	—	—
Belmullet	29 · 799	45 · 3	43 · 3	49 · 4	41 · 5	—	—	—	—	5 · 92	—	—
Donaghadee	29 · 819	43 · 4	42 · 3	48 · 5	39 · 4	60	1894	27	1878, 83	3 · 10	—	—
Holyhead	29 · 845	45 · 9	44 · 2	49 · 8	42 · 9	62	1881	29	1880	3 · 96	—	—
Liverpool	29 · 862	42 · 7	40 · 9	48 · 0	39 · 7	63	1872	22	1880	2 · 81	—	—
Parsonstown	29 · 852	41 · 8	40 · 3	49 · 1	37 · 0	62	1874	20	1890	2 · 86	63 · 1	25
Valencia	29 · 867	47 · 4	45 · 5	52 · 3	42 · 9	63	1881	27	1890	5 · 63	63 · 8	25
Roche's Point	29 · 869	46 · 2	44 · 6	51 · 2	42 · 0	61	1875	27	1890	4 · 79	—	—
Pembroke	29 · 871	47 · 1	45 · 4	50 · 3	43 · 6	58	1884, 95	28	1890	4 · 04	58 · 8	23
Scilly	29 · 898	50 · 1	48 · 1	52 · 6	46 · 6	60	1875, 81	29	1890	3 · 80	—	—
Prawle Point	29 · 917	46 · 4	44 · 9	51 · 2	42 · 1	61*	1881	19*	1890	3 · 26	—	—
Jersey	29 · 937	48 · 0	46 · 0	52 · 3	44 · 3	64	1874, 81	16	1890	4 · 19	70 · 9	26
Hurst Castle	29 · 912	45 · 3	44 · 3	50 · 7	41 · 0	66	1874	20	1890	3 · 11	—	—
Dover	29 · 904	44 · 7	43 · 3	49 · 7	40 · 9	61	1895	17	1890	3 · 30	—	—
LONDON	29 · 910	42 · 5	41 · 1	49 · 6	38 · 3	65	1894	19	1879	2 · 31	29 · 5†	11†
Oxford	29 · 908	41 · 4	40 · 2	48 · 5	37 · 7	68	1881	19	1871, 87	2 · 42	55 · 4	22
Cambridge	29 · 901	41 · 0	40 · 1	48 · 9	36 · 0	65	1895	15	1890	2 · 07	61 · 7	24
Yarmouth	29 · 879	43 · 4	42 · 2	47 · 7	39 · 2	60	1895	23	1890	2 · 92	—	—

* Extremes of temperature at these Stations are from observations made during the 15 years—1881-95. † The Sunshine values are for Westminster.

GENERAL SITUATION AT 8 A.M.

PRESSURE

Highest 29.7 ins. and upwards over the S. of Iceland and also over the N.ern parts of the Baltic.
Lowest 29.4 ins. and less in a shallow depression lying over the Netherlands; 29.5 ins. and less in another disturbance lying to the NW.wd of our Islands.
Gradients slight. Barometer falling in Iceland and Scotland, but rising in nearly all other parts of our area.

TEMPERATURE

Highest (1) 46° at Lyons, Biarritz and Perpignan; (2) 46° at Valencia (Ireland), & 45° at Belmullet & Delly.
Lowest 10° at Hernösand, 17° at Karlstad, 19° at Bodö, 20° at Nairn, and 23° at Wick.
Frost occurred last night in nearly all parts of the Kingdom. In Scotland it was rather severe, the sheltered thermometer falling to 18° at Nairn to 20° at Wick, and to 23° at Aberdeen, Leith and Ardrossan.

WIND

Moderate to fresh from the N.wd or NW.wd over England and the north and west of France, but light from the S.wd over Germany, Belgium and central France and from the E.wd in Denmark & Norway.
Rather variable in Scotland; moderate from the S.wd or SW.wd on our extreme western coasts.

WEATHER

Fine over the N.rn parts of Gt. Britain, but cloudy or dull in nearly all other parts of our area.
Rain was falling at some of the Irish stations, as well as at Faroe, the Helder and Biarritz, and snow at Haparanda.
Rain, hail or snow fell yesterday over nearly the whole of W.rn Europe, the largest amount being 0.8 in. at Belfort, and 0.7 in. at the N. Foreland and Biarritz. A thunderstorm occurred at Biarritz.

SEA

Rough at Cape Gris Nez, and rather rough off the E. of England, as well as at Biarritz, but moderate or slight elsewhere.

PROBABLE CHANGES IN SYSTEM NOW PREVALENT

The small depression noticed over the Channel yesterday has moved eastwards to the Netherlands and has partially filled up. A new and larger disturbance is now approaching our Islands from the W.wd or NW.wd, so that unsettled weather is likely to set in again in most districts

FORECASTS

For the 24 hours ending at NOON on 30TH NOVEMBER 1898

DISTRICTS.		FORECASTS.
0	SCOTLAND NORTH	S.ly winds, freshening; fine at first, then very unsettled, with snow.
1	SCOTLAND EAST	
2	ENGLAND N.E.	Wind backing to the SW.wd or S.wd; fine at first, some snow later.
3	ENGLAND EAST	NW.ly to W.ly or SW.ly winds, fair at first, unsettled later, with cold rain or sleet.
4	MIDLAND COUNTIES	
5	ENGLAND SOUTH	
6	SCOTLAND WEST	Same as No. 2.
7	ENGLAND N.W.	
8	ENGLAND S.W.	Same as Nos. 3 to 5.
9	IRELAND NORTH	S.ly winds, shifting later to the W.wd or NW.ly and increasing; dull, rainy.
10	IRELAND SOUTH	
	WARNINGS	None issued.

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

YESTERDAY'S 2 P.M. REPORTS.

	BAR.	THER. Dry.	THER. Wet.	WIND. Direc.	F.	WEA.	SEA.
Skudesnaes ...	29.27	32	31	E	0	c	1
Sumburgh Head	29.51	35	34	N	4	bc	6
Stornoway	29.73	33	32	N	5	b	6
Aberdeen	29.56	35	33	NW	6	bcq	5
Shields	29.50	36	34	WNW	3	cp	5
Ardrossan	29.63	37	36	N	2	b	1
Malin Head ...	29.68	40	36	N	6	bc	5
Belmullet	29.82	42	37	N	6	cp	*
Holyhead	29.58	41	37	N	6	chq	5
Valencia	29.78	43	38	NNE	6	bcq	5
Scilly	29.68	41	41	NNE	8	ch	3
Jersey	29.21	51	48	NNW	4	cq	3
Hurst Castle ...	29.30	41	40	NE	4	[illegible]	3
Dungeness ...	29.23	45	45	NE	4	r	3
North Foreland	29.29	45	44	ENE	4	r	3
London (Westminster)	29.31	43	40	NE	4	cq	#
Yarmouth ...	29.33	43	42	NE	5	rq	5
Rochefort ...	29.26	52	50	SSE	2	r	*

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

Weather in morning fine in the W^m. parts of our Islands generally, but with showers of hail or sleet at some of the Irish stations, as well as on the NE. coast of Gt. Britain. Dull over the S. of England and the greater part of the Continent, with rain over the Spanish Peninsula and the W. of France, as well as at several stations in Denmark and the S. of Scandinavia, and also at Lemberg and Rome; snow falling at Haparanda and Archangel. Fog reported over the central and N^m. parts of Russia. Rain, hail or snow falling later over nearly the whole of W^m. Europe, – heavily in places. Thunderstorm occurring at Biarritz.

Temperature fallen in our Islands and the N^m. parts of the Continent since elsewhere. Morning readings highest 65° at Palermo and Malta and 63° at Brindisi, above 55° at several of the Mediterranean and Adriatic stations. Lowest 20° at Archangel and Haparanda, and 21° at Bodö; below the freezing point in most parts of Scandinavia and N^m. Russia, and very little above it in the N^m. and central parts of Gt. Britain, where the thermometer remained below 40° all day. Exceeding 45° later over the English Channel, exceeding 50° in the W. and S. of France, and reaching 61° at Perpignan. Very sharp frost over Scotland at night.

Wind N^ly. (NW. to NE) in our Islands, and strong to a gale in force on some of the more exposed parts of our western and northern coasts; W^ly. or NW^ly. over the Bay of Biscay and the Portuguese coasts; light from the S^wd. over central France, and moderate to strong from the SW^wd. over Germany and the Baltic, as well as in Italy. S^ly. or SE^ly. in Russia, E^ly. or NE^ly. over Scandinavia. No important change occurring over western Europe during day.

Barometer highest 30.0 ins. and upwards over SE^rn. Europe, 29.8 ins. and upwards in an area lying to the W. of our Islands. Lowest 29.0 ins. and less in a well marked depression with its centre over the Kattegat; 29.2 ins. and less in another disturbance with its centre over the Channel Islands. Both depressions moving E^wds. later and partially filling up; barometer beginning to fall again on our extreme NW. coasts in evening.

EXPLANATION OF THE 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.

N.B.—The morning observations are now made at 8 a.m. in the British Islands, Belgium, Germany, Sweden, and Norway, at 7 a.m. in France, and at 9 a.m. in Spain and Portugal. The evening observations are made at 8 p.m. at Oxford, but at 6 p.m. at the other stations in the British Islands and in France; at 8 p.m. in Sweden, Norway and Germany. The time at each Station is the Standard Time of its Country.

Subscriptions both for the Daily *and* Weekly Weather Reports *may be paid, in advance, to the* Meteorological Office.

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DAILY WEATHER REPORT

for 8 a.m. on Wednesday, 30th November, 1898.

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

	STATIONS.	YESTERDAY EVENING. (See note at bottom of last page.)					THIS MORNING. (See note at bottom of last page.)								PAST 24 HOURS.				
		Barom.	Temp.	Wind.		Weather	Barometer.		Temperature.			Wind.		Weather.	Sea (0 to 9.)	Weather.	Hours of Bright Sunshine.	Temp.		Rainfall.
		At 32° and M.S.L.	Dry Bulb.	Direc.	Force (0 to 12.)		At 32° Fahr. and M. S. L.	Change since Yesterday.	Dry Bulb.	Wet Bulb.	Change since Yesterday.	Direc.	Force (0 to 12.)					Max.	Min.	
		Ins.	°				Ins.	Ins.	°	°	°							°	°	Ins.
Scandinavia	Haparanda ...	29.65	24	NW	2	o	29.75	+.34	20	19	- 4	Z	0	o	#	o	#	28	19	0.08
	Hernösand ...	29.79	1	Z	0	b	29.72	+.15	14	13	+ 4	N	2	S	#	b	#	19	0	-
	Stockholm ...	29.65	35	ESE	4	r	29.66	-.03	39	39	+ 15	Z	0	f	#	r	#	39	23	0.24
	Wisby	29.63	44	SSE	4	o	29.71	.00	42	42	+ 5	S	4	o	#	o	#	48	34	-
	Karlstad ...	29.57	25	NNE	2	S	29.56	-.11	32	32	+ 15	NNE	2	o	#	S	#	#	#	0.28
	Bodö	29.66	21	E	1	b	29.60	+.02	23	20	+ 4	E	2	b	1	b	#	23	16	-
	Christiansund ...	29.57	27	ESE	3	bc	29.54	-.01	30	28	+ 4	ESE	2	b	3	bc	#	30	27	-
	Skudesnaes ...	29.56	36	Z	0	c	29.58	+.12	37	36	+ 2	SSE	4	c	3	c	#	37	34	#
	Færder (Christiania Fjord)	29.52	27	NNE	1	S	29.60	.00	28	26	+ 1	NW	4	o	2	S	#	28	25	0.24
	Skagen (The Scaw)	29.43	33	SW	2	m	29.64	+.01	34	32	- 2	W	1	o	o	m	#	41	?	0.24
	Fanö	29.58	35	ENE	1	b	29.67	+.06	34	33	- 1	ESE	1	b	#	b	#	39	34	0.12
	Sumburgh Head	29.46	29	Z	0	bc	29.32	-.19	38	37	+ 3	SW	1	c	3	bc	#	38	25	-
	Stornoway ...	29.47	39	NW	4	r	29.31	-.20	42	41	+ 6	WSW	4	o	4	r	0.0	42	33	0.30
	Wick	29.47	30	Z	0	m	29.38	-.16	38	37	+ 15	WSW	4	bc	2	m	#	38	20	-
	Nairn	29.48	31	Z	0	o	29.45	-.12	38	35	+ 18	W	1	o	1	os	#	38	18	0.01
	Aberdeen ...	29.52	26	W	1	og	29.50	-.14	34	31	+ 10	SW	2	cm	2	c.og	3.5	34	29	-
	Leith	29.55	33	WNW	1	S	29.56	-.05	40	38	+ 16	WSW	1	om	#	S	#	40	23	0.04
	Shields	29.60	34	WSW	2	S	29.64	+.04	34	33	+ 1	WSW	3	c	3	b,s	#	36	26	0.02
	Spurn Head ...	29.61	38	WNW	3	b	29.70	+.19	38	38	0	W	3	bmw	3	b.f	#	40	35	-
	York	29.62	35	W	1	o	29.71	+.10	34	33	+ 5	W	1	b	#	b,o,s	4.1	37	29	0.03
	Loughborough ...	29.67	34	W	1	o	29.77	+.10	37	36	+ 3	W	2	bcw	#	c.bc,o.b	#	42	31	-
British Islands	Ardrossan ...	29.52	43	S	2	om	29.57	-.05	46	46	+ 11	SW	4	op	3	r.om	2 #	46	29	0.09
	Malin Head ...	29.55	45	NW	5	bcqr	29.50	-.04	47	47	+ 10	WSW	4	r	3	c.qr	#	47	36	0.14
	Belmullet ...	29.76	45	WNW	4	bcp	29.74	-.02	51	51	0	WNW	3	o	#	c,bcp	#	51	44	0.40
	Donaghadee ...	29.58	37	SSW	4	c	29.67	+.02	39	39	+ 6	WSW	3	r	1	c	#	43	32	0.06
	Liverpool (Bidston)	29.65	36	SSW	1	o	29.75	+.09	42	39	+ 9	W	3	bc	3	rsm	#	44	32	0.04
	Holyhead ...	29.62	43	WSW	1	opd	29.75	+.09	45	43	+ 5	W	4	c	3	am.pd	#	47	36	0.12
	Parsonstown ...	29.70	42	NW	1	bc	29.75	+.08	43	42	+ 8	SW	1	or	#	or.bc	0.0	43	34	0.19
	Valencia ...	29.80	48	N	5	cqj	29.90	+.20	52	51	+ 6	W	5	gmr	6	bcq,p	3.1	52	43	0.36
	Roche's Point ..	29.70	46	NNW	4	bj	29.88	+.13	45	44	+ 5	WSW	3	r	3	r.b.r	#	47	38	0.30
	Pembroke (St. Ann's Hd.)	29.64	44	W	2	o	29.86	+.16	47	43	+ 7	NNW	4	bc	4	o	0.1	47	39	0.09
	Scilly	29.64	46	SSW	2	r	29.93	+.27	49	46	+ 12	NW	5	o	3	o.r	0.0	49	38	0.19
	Prawle Point ...	29.72	35	NW	2	bc	29.90	+.21	40	39	+ 8	NW	2	c	2	c	#	46	32	0.05
	Jersey (St. Aubin's)																#			
	Hurst Castle ...	29.70	35	NNW	1	cm	29.85	+.36	38	37	+ 4	W	1	cm	1	cm	#	43	32	0.01
	Dungeness ...	29.60	38	NW	2	c	29.84	+.37	33	32	- 3	NNW	2	bc	2	c.f	#	41	28	-
	North Foreland	29.62	40	WNW	3	bc	29.83	+.36	35	33	- 6	WSW	2	b	2	bc	#	43	32	-
	London (Brixton) ...	29.72	34	W	2	o	29.84	+.28	36	35	0	SW	2	bc	#	c.bm.p	0.1	40	29	0.01
	Oxford	29.68	36	NW	1	om	29.83	+.23	35	34	0	WSW	2	b	#	bc.sp	#	40	32	-
	Cambridge ...	29.64	32	NNW	1	b	29.79	+.23	36	35	+ 1	SW	2	b	#	c.b	0.5	40	28	-
	Yarmouth ...	29.58	39	NW	3	c	29.74	+.29	35	34	- 8	WSW	3	bcm	4	bc.c	#	45	30	0.01
Germany & Holland	Cuxhaven ...	29.48	41	SW	2	o	29.67	+.27	39	38	- 2	SSE	1	cp	#	op	#	41	37	0.16
	Berlin	29.66	42	SSW	2	bc	29.71	+.14	42	41	+ 4	Z	0	f	#	bc	#	46	38	-
	Wiesbaden ..	*	*	*	*	*	29.81	+.25	41	38	0	SW	1	o	#	*	#	45	39	-
	Munich... ..	29.72	40	SE	2	o	29.75	+.06	33	33	- 2	NW	4	S	#	o	#	43	32	0.20
	The Helder ...	29.54	44	NNE	1	o	29.73	+.37	43	39	- 1	W	3	b	2	o	#	45	39	0.12
Belgium.	Brussels ...	*	*	*	*	*	29.86	+.40	33	33	- 9	Z	0	f	#	bc	#	45	32	-
	Cape Gris Nez ...	?	43	N	5	o	?	?	43	38	- 2	WNW	3	m	3	o	#	46	37	-
	Paris	29.62	39	S	2	r	29.87	+.42	39	38	- 4	NW	2	m	#	r	#	44	38	0.28
	Brest	29.78	45	NW	2	o	29.94	+.23	47	44	+ 5	SSW	1	c	2	o	#	47	34	0.04
	Lorient... ...	29.77	45	NW	4	o	29.98	+.29	41	39	0	NE	1	b	2	o	#	46	32	-
France &	Rochefort ...	29.73	46	NW	3	o	29.86	+.28	37	36	- 6	E	3	b	#	bc.o	#	50	34	-
	Belfort	29.66	41	Z	0	o	29.83	+.24	34	33	- 5	W	2	s	#	o	#	48	32	0.24
	Lyons	29.76	39	NW	3	r	29.91	+.29	35	34	- 11	S	1	c	#	r	#	55	34	-
	Nice	29.68	46	E	1	r	29.65	-.03	43	38	- 5	Z	0	b	4	r	#	52	41	0.43
	Perpignan ...	29.82	46	NW	2	b	29.92	+.22	35	34	- 11	SW	1	b	#	b	#	52	34	-
	Biarritz ...	29.84	50	W	6	r	29.82	+.13	49	47	+ 3	SW	6	r	4	rh	#	52	41	0.79
Peninsula.	Corunna ...																#			
	Lisbon	30.23	50	NNW	2	bc	30.20	+.10	52	51	+ 4	NW	3	bc	#	bc	#	57	48	0.04
	Azores (P. Delgada)	30.38	58	NE	1	o	30.40	+.12	54	50	- 3	ENE	3	b	3	o	#	63	54	-

For Explanation of Columns, see bottom of last page. † *Received too late for Insertion in Charts on next page.*

NOTE: *The Sunshine for London given in this Table is now recorded on the tower of the Wesleyan Training College, Westminster.*

Bright Sunshine yesterday Southport. 0.6 hrs;

WEATHER CHARTS

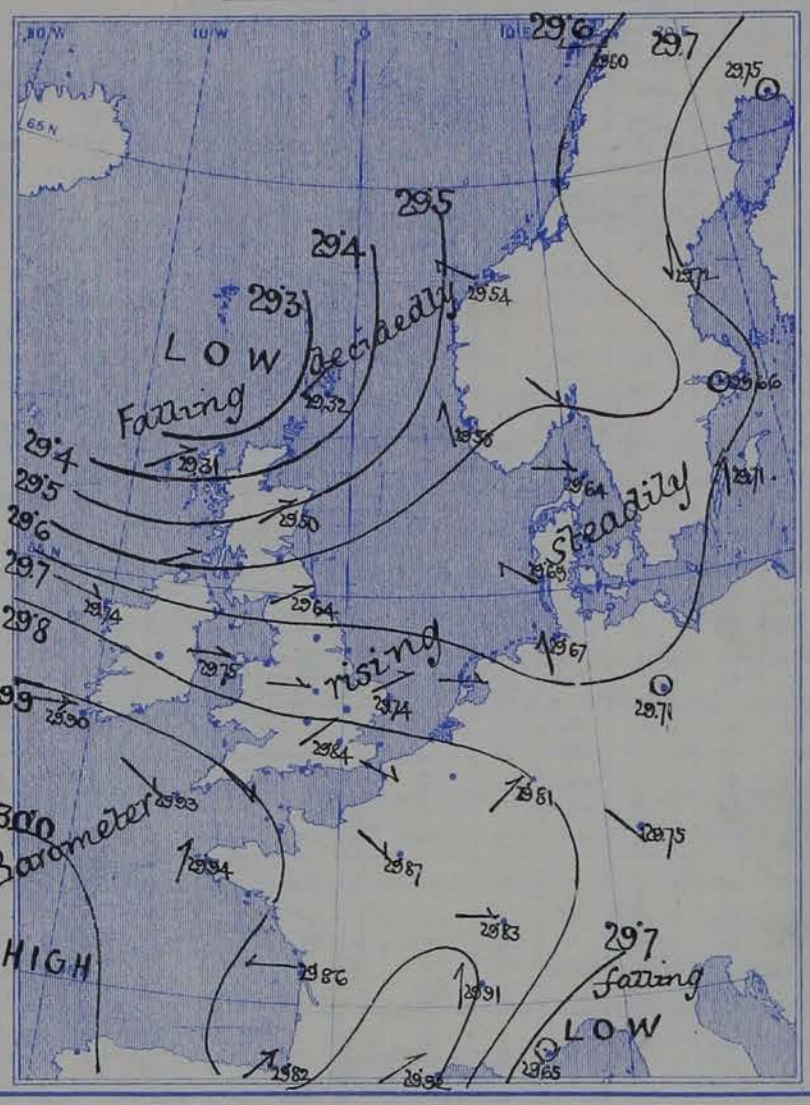
FOR Wednesday, 30th November, 1898

BAROMETER, WIND AND SEA.

BAROMETER—Isobars are drawn for each tenth of an inch.
WIND—Arrows shew Directions and Force, flying with the wind.

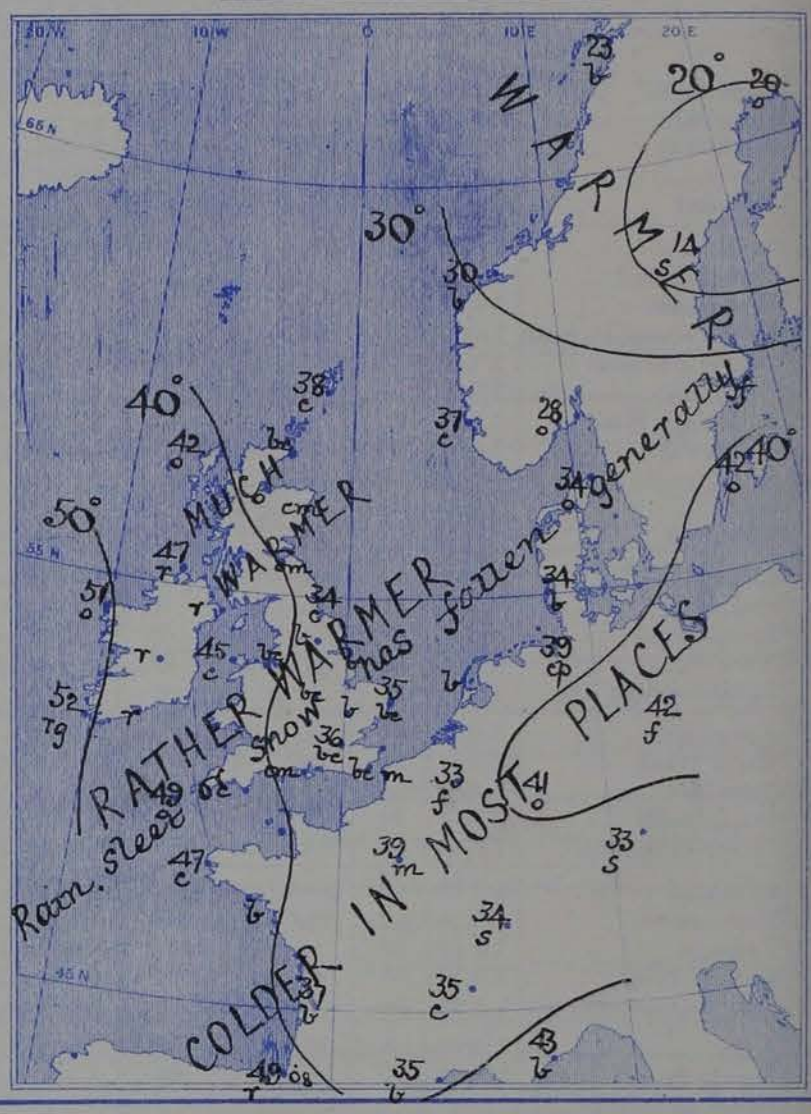
Force above 10 ⟶⟶ ; *Force 5 to 7* ⟶ ; } Calm ⊙
Force 8 to 10 ⟶ ; *Force 1 to 4* ⟶ ; }

SEA—Rough ; *High*



TEMPERATURE & WEATHER.

TEMPERATURE—Isotherms are drawn for each 10°.
WEATHER—Shown by Letters of the Beaufort Scale.
RAINFALL—A dotted line separates areas where rain has fallen from those without rain. The fall in past 24 hours when exceeding half an inch is shown thus—0·6.



VALUES FOR PRESSURE, TEMPERATURE, RAINFALL, AND BRIGHT SUNSHINE
IN THE MONTH OF NOVEMBER.

STATIONS.	PRESSURE AT 8 A.M. Means, 1871—95.	TEMPERATURE OF AIR. 1871-95. Means of				Absolute Extremes.				RAINFALL. Means, 1866—95.	BRIGHT SUNSHINE. Means, 1881—95.	
		Dry Bulb 8 a.m.	Wet Bulb 8 a.m.	Daily Maximum.	Daily Minimum.	Maximum	Years.	Minimum.	Years.		Hours.	Per cent. of possible.
	(*Inches.*)	°	°	°	°	°		°		(*Inches.*)		
Sumburgh Head	29 · 693	42 · 3	40 · 6	45 · 8	38 · 2	55	1890	21	1875	4 · 14	—	—
Stornoway	29 · 703	42 · 0	41 · 0	46 · 4	37 · 1	56	1881	20	1880	4 · 80	42 · 1	18
Wick	29 · 728	41 · 6	40 · 1	46 · 2	36 · 4	58	1885, 89	15	1884	2 · 93	—	—
Nairn	29 · 743	40 · 0	38 · 4	45 · 7	35 · 5	61	1885, 94	18	1880	2 · 14	—	—
Aberdeen	29 · 772	40 · 7	38 · 9	46 · 3	36 · 7	62	1872, 89	15	1880, 84	3 · 16	54 · 7	23
Leith	29 · 798	41 · 8	40 · 1	48 · 2	37 · 1	64	1872	18	1885	2 · 05	—	—
Shields	29 · 824	42 · 4	40 · 8	47 · 6	38 · 0	62	1881, 94	20	1880	2 · 39	—	—
Spurn Head	29 · 854	43 · 5	42 · 2	47 · 1	40 · 4	61*	1894, 95	28*	1884	2 · 28	—	—
York	29 · 859	40 · 9	39 · 7	47 · 7	36 · 6	62	1894, 95	14	1871	2 · 21	39 · 7	16
Loughborough	29 · 888	40 · 7	39 · 5	48 · 4	36 · 7	63*	1881, 93, 94, 95	19*	1887, 93	2 · 21	—	—
Ardrossan	29 · 799	43 · 3	41 · 6	47 · 9	39 · 2	69	1872	21	1880	3 · 78	—	—
Malin Head	29 · 755	43 · 9	42 · 0	48 · 0	40 · 9	—	—	—	—	—	—	—
Belmullet	29 · 799	45 · 3	43 · 3	49 · 4	41 · 5	—	—	—	—	5 · 92	—	—
Donaghadee	29 · 819	43 · 4	42 · 3	48 · 5	39 · 4	60	1894	27	1878, 83	3 · 10	—	—
Holyhead	29 · 845	45 · 9	44 · 2	49 · 8	42 · 9	62	1881	29	1880	3 · 96	—	—
Liverpool	29 · 862	42 · 7	40 · 9	48 · 0	39 · 7	63	1872	22	1880	2 · 81	—	—
Parsonstown	29 · 852	41 · 8	40 · 3	49 · 1	37 · 0	62	1874	20	1890	2 · 86	63 · 1	25
Valencia	29 · 867	47 · 4	45 · 5	52 · 3	42 · 9	63	1881	27	1890	5 · 63	63 · 8	25
Roche's Point	29 · 869	46 · 2	44 · 6	51 · 2	42 · 0	61	1875	27	1890	4 · 79	—	—
Pembroke	29 · 871	47 · 1	45 · 4	50 · 3	43 · 6	58	1884, 95	28	1890	4 · 04	58 · 8	23
Scilly	29 · 898	50 · 1	48 · 1	52 · 6	46 · 6	60	1875, 81	29	1890	3 · 80	—	—
Prawle Point	29 · 917	46 · 4	44 · 9	51 · 2	42 · 1	61*	1881	19*	1890	3 · 26	—	—
Jersey	29 · 937	48 · 0	46 · 0	52 · 3	44 · 3	64	1874, 81	16	1890	4 · 19	70 · 9	26
Hurst Castle	29 · 912	45 · 3	44 · 3	50 · 7	41 · 0	66	1874	20	1890	3 · 11	—	—
Dover	29 · 904	44 · 7	43 · 3	49 · 7	40 · 9	61	1895	17	1890	3 · 30	—	—
LONDON	29 · 910	42 · 5	41 · 1	49 · 6	38 · 3	65	1894	19	1879	2 · 31	29 · 5†	11†
Oxford	29 · 908	41 · 4	40 · 2	48 · 5	37 · 7	68	1881	19	1871, 87	2 · 42	55 · 4	22
Cambridge	29 · 901	41 · 0	40 · 1	48 · 9	36 · 0	65	1895	15	1890	2 · 07	61 · 7	24
Yarmouth	29 · 879	43 · 4	42 · 2	47 · 7	39 · 2	60	1895	23	1890	2 · 92	—	—

* Extremes of temperature at these Stations are from observations made during the 15 years—1881-95. † The Sunshine values are for Westminster.

GENERAL SITUATION AT 8 A.M.

PRESSURE

Highest, 30·20 in. at Lisbon; 30·0 in. and upwards over the greater part of the Spanish Peninsula.
Lowest, 29·3 in. and less. in a depression lying off the north of Scotland.
Gradients slight, but increasing in the extreme north.
Barometer falling rather decidedly in the extreme north and northwest of our Islands, but rising elsewhere.

TEMPERATURE

Highest, 52° at Valencia (Ireland) and Lisbon, 51° at Pilmullet, 49° at Scilly and Biarritz, and 47° at Malin Hd. Pembroke, and Brest.
Lowest, (1) 14° at Haparanda, 20° at Haparanda, and 23° at Bodö: (2) 33° at Dungeness, Brussels and Munich.
A considerable rise has taken place in Scotland. At Aberdeen the maximum recorded yesterday up to 6pm was only 27°.

WIND

Light to moderate from the W^n. or SW^n. over the greater part of our Islands and from the SE^n. or E^n. on the eastern shores of the North Sea.
Light from the NW^n. in the extreme south of England; variable in France and Germany. Calm or N^n. at most of the Swedish stations.

WEATHER

Fine over England, the Netherlands, and the greater part of France, as well as in the west of Norway and the extreme south of France
Cloudy or dull elsewhere, with rain at nearly all the Irish stations, and also at Biarritz. Snow falling at Belfort and Munich, as well as at Hernösand
In the course of the past 24 hours rain, sleet, or snow has fallen in many parts of Western Europe, the largest amount being 0·8 in. at Biarritz.

SEA

Slight or smooth generally, but rough at Valencia (Ireland).

PROBABLE CHANGES IN SYSTEM NOW PREVALENT

The depression which has appeared off the north of Scotland is likely to move in an easterly or possibly in a southeasterly direction. In its rear the wind will probably increase considerably from the NW^n. on our extreme north and northwest coasts.

FORECASTS

For the 24 hours ending at NOON on 1st Dec^r. 1898

DISTRICTS.		FORECASTS.
T 0	SCOTLAND NORTH	W^n. to NW^n. winds, increasing in force; squally, some snow or sleet.
T 1	SCOTLAND EAST	
2	ENGLAND N.E.	W^n. winds, freshening; fair at first, unsettled later, with cold rain or sleet.
3	ENGLAND EAST	W^n. winds, freshening; fine at first, some rain later, becoming temporarily milder.
4	MIDLAND COUNTIES	
5	ENGLAND SOUTH	
T 6	SCOTLAND WEST	Same as Nos. 0 and 1.
7	ENGLAND N.W.	W^n. winds, freshening considerably; squally, some rain.
8	ENGLAND S.W.	W^n. to NW^n. winds, freshening; squally, some rain.
T 9	IRELAND NORTH	Same as Nos. 0 and 1.
10	IRELAND SOUTH	Same as No. 8.
	WARNINGS	At 10 am today to districts 0, 6, and parts of 1 and 9. "Hoist North Cone"

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

YESTERDAY'S 2 P.M. REPORTS.

	BAR.	THER. Dry.	THER. Wet.	WIND. Direc.	F.	WEA.	SEA.
Skudesnaes ...	29·50	36	35	NNW	2	o	2
Sumburgh Head	29·46	29	28	E	0	bc	4
Stornoway	29·42	39	38	SW	4	r	4
Aberdeen	29·52	36	34	WSW	1	c	3
Shields	29·68	33	31	WSW	2	b	4
Ardrossan	29·52	35	35	S	3	r	2
Malin Head ...	29·47	44	43	SW	3	c	2
Belmullet	29·64	47	44	NNW	4	c	*
Holyhead	29·62	41	39	SW	1	d m	1

	BAR.	THER. Dry.	THER. Wet.	WIND. Direc.	F.	WEA.	SEA.
Valencia	29·69	48	44	NNW	6	bqp	6
Scilly	29·67	45	43	W	6	o	3
Jersey							
Hurst Castle ...	29·63	40	37	NNE	3	bcm	2
Dungeness ...	29·56	40	39	NW	3	c	2
North Foreland	29·54	43	41	NNW	4	c	3
London (Westminster)	29·59	41	38	NW	3	bc	*
Yarmouth ...	29·50	44	41	N	4	bc	4
Rochefort ...	29·69	46	43	NNW	4	bc	*

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

Weather in morning fine over the northern parts of Great Britain and the west of Norway, and also in Germany, and the greater part of the Spanish Peninsula. Cloudy or dull elsewhere with rain at some of the Irish stations, as well as in Holland, Denmark, the northern and central parts of Russia and at Biarritz and Bilbao; snow falling in the extreme northern parts of Sweden and Russia. Thunderstorm reported at Constantinople. Snow occurring later at several of our own northern stations, and rain in many parts of England, Ireland & France.

Temperature fallen in most places; very decidedly in the north of our Islands. Morning readings highest 66° at Malta, 64° at Patras, and 63° at Athens; above 55° at many of the Mediterranean and Adriatic stations. Lowest (1) 10° at Hernösand, 17° at Karlstad and 19° at Bodö; (2) 20° at Nairn, 23° at Wick (considerably below the freezing point over the northern parts of Great Britain generally). Remaining below 32° all day at some of the Scotch stations, but rising quickly at night. Daily maxima below 45° in all but the southwestern parts of the United Kingdom; thermometer exceeding 50° in the south of France and reaching 55° at Lyons.

Wind moderate to strong from the N.W. or NW. over England and the north and west of France, and the greater part of the Spanish Peninsula. Light from the S. over Italy, Central France, Germany, Austria, and the south of Russia, variable over northern Russia; N. in Sweden. Moderate from the S. or SW. on our own extreme western coast, but variable in Scotland, and E. in Norway and Denmark. Subsequently backing to the W. or SW. over England, but shifting to the NW. in Ireland and the west of Scotland.

Barometer highest 30·2 in. and upwards in Greece; 30·1 in. and upwards in an anticyclone covering the whole of southeastern Europe, and also in another system off the Portuguese coast. Lowest 29·4 in. and less. in two depressions,—one lying over the Netherlands and the other over Lapland; 29·5 in. and less. in three other disturbances,—one off the northwest of Scotland, another off the southwest of Norway and the third over the Gulf of Finland. Scotch disturbance subsequently moving eastwards, and barometer rising briskly on our extreme western coasts.

EXPLANATION OF THE 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.

N.B.—The morning observations are now made at 8 a.m. in the British Islands, Belgium, Germany, Sweden, and Norway, at 7 a.m. in France, and at 9 a.m. in Spain and Portugal. The evening observations are made at 8 p.m. at Oxford, but at 6 p.m. at the other stations in the British Islands and in France: at 8 p.m. in Sweden, Norway and Germany. The time at each Station is the Standard Time of its Country.

Subscriptions both for the Daily *and* Weekly Weather Reports *may be paid, in advance, to the* Meteorological Office.

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,, Weekly ,, ,, ,, £1 10 0 ,,

PORTS FOR NOVEMBER 1898.

2. CORRECTIONS.

DATE.	STATIONS.	YESTERDAY EVENING. (See note at bottom of last page.)					THIS MORNING. (See note at bottom of last page.)									PAST 24 HOURS.				
		Barom.	Temp.	Wind.		Weather	Barometer.		Temperature.			Wind.		Weather.	Sea (0 to 9.)	Weather.	Hours of Bright Sunshine.	Temp.		Rainfall.
		At 32° and M.S.L.	Dry Bulb.	Direc.	Force (0 to 12.)		At 32° Fahr. and M. S. L.	Change since Yesterday.	Dry Bulb.	Wet Bulb.	Change since Yesterday.	Direc.	Force (0 to 12.)					Max.	Min.	
		Ins.	°				Ins.	Ins.	°	°	°							°	°	Ins.
1	Belmullet	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	52	-	-
"	Pembroke	29.74	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
"	Cambridge	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	7.5	-	-	-
2	Belmullet	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	57	-	-
-	Prawle Point	-	-	-	-	-	29.91	-.10	-	-	-	-	-	-	-	-	-	-	-	-
-	Hurst Castle 2pm	-	-	-	-	-	-	-	57	-	-	-	-	-	-	-	-	-	-	-
3	Pembroke	-	-	-	-	-	-	-	56	-	0	-	-	-	-	-	-	-	-	-
"	Hurst Castle	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	57	-
4	Shields	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	52	-	-
-	Pembroke	-	-	-	-	-	-	-	55	53	- 3	-	-	-	-	-	-	56	50	-
-	Prawle Point	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	57	-	-
-	London	-	-	-	-	-	29.95	+.26	-	-	-	-	-	-	-	-	-	-	-	-
5	Leith	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.04
"	Jersey	-	-	-	-	-	29.89	-.13	-	-	-	-	-	-	-	-	-	-	-	-
-	Cambridge	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.02
6	York	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	51	-	-
"	Donaghadee	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.05
-	Roche's Point	-	-	-	-	-	-	-	-	-	-	WNW	-	-	-	-	-	-	-	-
8	Prawle Point	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	55	-	-
9	Nairn	-	-	-	-	-	30.22	+.41	-	-	-	-	-	-	-	-	-	-	-	-
10	Wick	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	30	-
"	Leith	-	42	-	-	-	-	-	-	-	-	-	-	-	-	-	-	45	-	-
12	Pembroke	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2.1	-	-	-
"	Scilly	-	-	-	-	-	-	-	55	-	- 2	-	-	-	-	-	-	-	-	-
13	Stornoway	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	53	-	-
14	Prawle Point	-	-	-	-	-	-	-	?46	-	+ 3	-	-	-	-	-	-	-	-	-
15	Wick	-	-	-	-	-	30.14	+.30	-	-	-	-	-	-	-	-	-	-	-	-
"	Valencia	-	-	-	-	-	-	-	44	42	- 8	-	-	-	-	-	-	-	-	-
"	Cambridge	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	56	-	-
-	Lisbon	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	50	-
20	Belmullet	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.01
21	Holyhead	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	50	-	-
22	Leith	-	-	-	-	-	-	-	-	30	-	-	-	-	-	-	-	-	-	-
"	Spurn Head	-	-	-	-	-	-	-	-	-	-	-	-	-	-	beg p'd	-	-	-	-
-	Roche's Point	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	35	-
-	Jersey	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	54	-	-
23	Wick	29.87	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
26	Scilly	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.35
28	Nairn	-	N	-	-	-	-	-	-	-	-	N	-	-	-	-	-	-	-	-
"	Wiesbaden	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	45	-	-
29	Hurst Castle	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	31	-

ADDITIONS AND CORRECTIONS TO THE

1. REPORTS RECEIVED TOO LATE FOR INSERTION DAILY.

DATE.	STATIONS.	YESTERDAY EVENING. (See note at bottom of last page.) Barom. At 32° and M.S.L.	Temp. Dry Bulb.	Wind. Direc.	Force (0 to 12.)	Weather	THIS MORNING. (See note at bottom of last page.) Barometer. At 32° Fahr. and M. S. L.	Change since Yesterday.	Temperature. Dry Bulb.	Wet Bulb.	Change since Yesterday.	Wind. Direc.	Force (0 to 12.)	Weather.	Sea (0 to 9.)	PAST 24 HOURS. Weather.	Hours of Bright Sunshine.	Temp. Max.	Temp. Min.	Rainfall.
		Ins.	°				Ins.	Ins.	°	°	°							°	°	Ins.
3	Haparanda	29.70	27	N	0	0	29.19	-.70	33	32	+6	SE	4	S	-	0	-	?	21	0.12
"	Hernösand	29.54	44	S	8	r	28.98	-.80	43	42	+8	S	6	0	-	r	-	45	30	0.55
"	Stockholm	29.76	46	SW	4	0	29.27	-.61	48	46	+6	SW	7	0	-	0	-	48	42	0.12
"	Wisby	29.92	46	SSW	8	c	29.52	-.50	46	45	+1	SW	9	0	-	c	-	46	41	-
"	Karlstad	29.50	45	SW	8	r	29.14	-.76	50	48	+9	SW	4	r	..	r	-	-	-	0.43
"	Bodö	29.90	38	ESE	6	c	28.84	-.84	39	35	+3	ESE	6	0	0	c	-	39	34	-
"	Christiansund	28.75	51	WSW	3	r	28.93	-.53	43	40	-2	WSW	6	c	4	r	-	52	43	0.43
"	Skudesnaes	29.05	54	WSW	9	0	29.11	-.47	50	49	0	N	4	c	6	0	-	54	45	-
4	The Helder	29.66	52	SW	2	0	29.82	-	51	-	-	SSW	4	c	4	0	-	59	30	0.28
"	Cape Gris Nez	?	55	W	5	r	?	?	50	-	-7	NW	4	c	4	r	-	59	46	0.43
"	Corunna	30.17	63	W	3	0	30.09	-	59	56	-	W	2	c	?	0	-	64	48	0.12
5	Azores	30.17	63	NNE	3	bc	30.14	-.09	60	58	-5	NNE	3	c	3	bc	-	68	59	0.12
8	The Helder	30.12	45	ESE	2	m	30.12	-.10	40	-	-3	SSE	1	b	1	m	-	46	39	-
"	Cape Gris Nez	?	47	S	2	0	?	?	43	-	-2	SSW	1	m	0	0	-	52	39	-
10	Corunna	29.79	58	S	3	r	29.57	?	56	54	?	SSW	3	0	3	r	-	63	48	0.67
"	Azores	29.85	57	NNW	3	bc	29.94	+.17	57	54	+2	NNW	4	c	-	bc	-	63	55	0.044
16	The Helder	30.22	52	W	1	0	30.19	-.08	52	-	+1	WSW	1	r	1	0	-	54	50	-
18	Cape Gris Nez	?	48	ESE	1	m	?	?	39	-	-14	E	2	f	1	m	-	54	36	-
19	Corunna	29.95	57	NE	1	bc	29.96	-	48	46	-	NE	1	f	3	bc	-	59	44	-
21	Bodö	29.91	37	SE	2	r	29.42	-	34	33	-	N	0	r	1	r	-	39	32	0.35
"	Corunna	30.11	58	E	1	bc	30.17	-	51	-	-	E	1	f	2	bc	-	59	43	-
22	Corunna	30.12	54	E	1	r	30.07	-.10	54	50	+3	NNE	6	c	5	r	-	55	43	0.24
23	Malin Hd	29.71	35	S	6	r	28.98	-1.22	42	42	+7	SE	3	op	3	rs	-	42	23	0.24
"	Malin Hd 2pm	-	-	-	-	-	29.05	-	38	37	-	ENE	6	oq	5	-	-	-	-	-
24	Malin	29.10	40	ENE	7	0	29.09	+.11	40	39	-2	ENE	6	oq	5	0	-	43	37	0.16
"	Parsonstown	28.91	42	WNW	2	r	28.96	-.02	37	37	-7	NW	3	r	-	rs	0.0	45	33	1.42
"	Nice	29.38	49	N	0	r	29.34	-.18	48	-	0	N	0	0	3	r	-	52	46	0.51
29	Jersey	-	-	-	-	-	29.61	+.43	43	39	-6	NW	5	c	4	rmq	-	52	39	0.42
"	Nice	29.56	47	E	4	r	29.73	-.03	48	-	+5	E	1	0	4	r	-	50	43	1.06
"	Jersey 2pm	-	-	-	-	-	29.67	-	46	41	-	NW	5	bc	4	-	-	-	-	-
30	Jersey	29.69	43	WNW	3	bc	29.92	+.31	39	38	-4	ENE	2	c	2	-	-	47	33	0.01